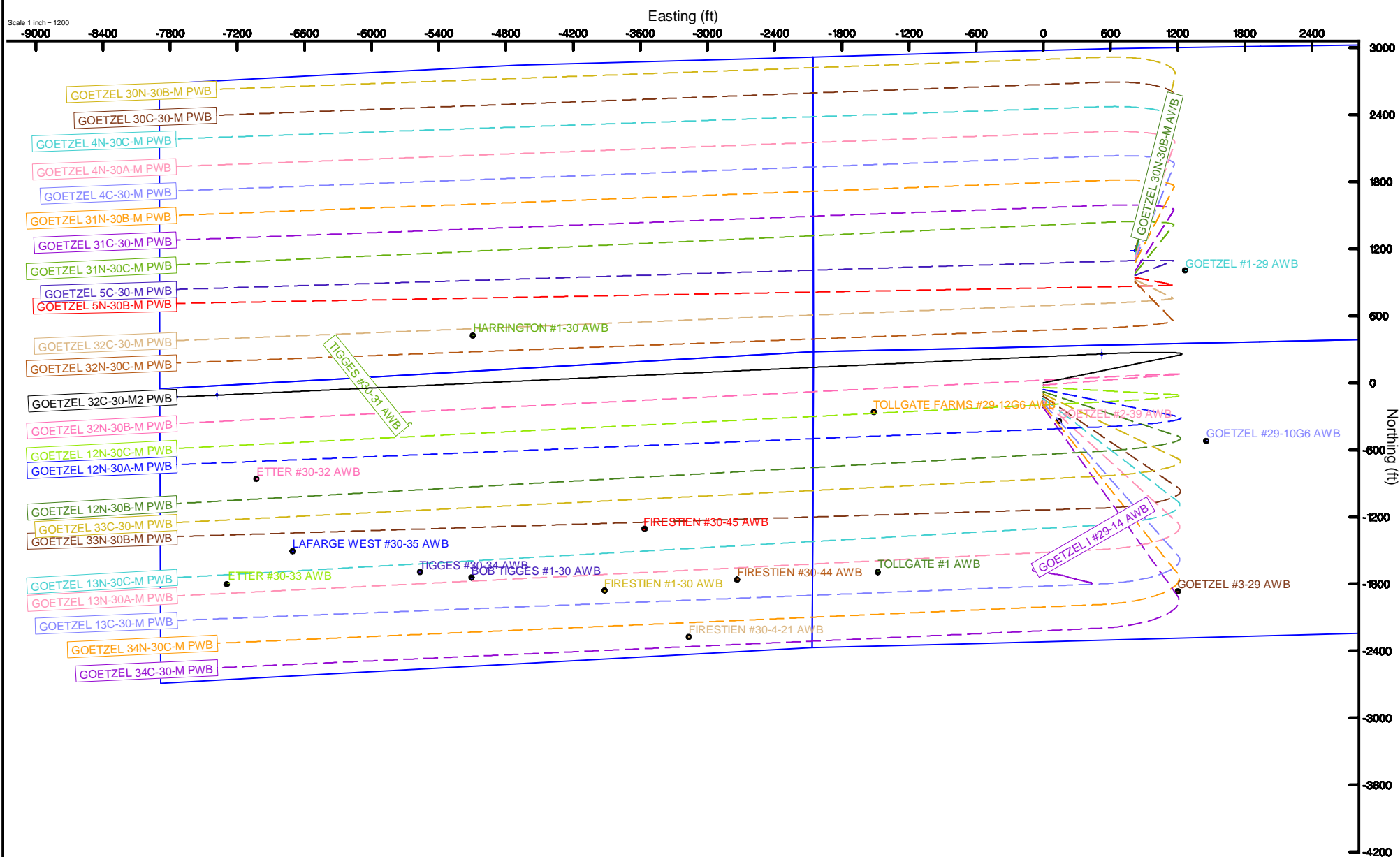


Location:	COLORADO	Slot:	SLOT#13 GOETZEL 32C-30-M2 (2317'FSL & 2053'FWL SEC.29
Field:	WELD COUNTY (NAD83,TRUE NORTH)	Well:	GOETZEL 32C-30-M2
Facility:	SEC.29-T06N-R66W	Wellbore:	GOETZEL 32C-30-M2 PWB



BGM (1900.0 to 2018.0) Dip: 66.92° Field: 52499.6 nT
Magnetic North is 8.43 degrees East of True North (at 2/22/2017)

To correct azimuth from Magnetic to True add 8.43 degrees





Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Wagnjam
Scale	0.999963	Report Generated	2/27/2017 at 6:01:37 PM
Convergence at slot	0.45° East	Database/Source file	WA_DEN_Denver_Defn/GOETZEL_13N-30C-M_REV-A.0_PWP_CR.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-1322.45	-822.33	3193637.80	1410343.17	40°27'27.749"N	104°48'14.897"W
Facility Reference Pt			3194449.65	1411672.01	40°27'40.817"N	104°48'04.259"W
Field Reference Pt			3171284.48	1426358.81	40°30'07.643"N	104°53'02.634"W

WELLPATH DATUM

Calculation method	Minimum Curvature	H&P 562 (25') (RKB) to Facility Vertical Datum	4757.00ft
Horizontal Reference Pt	Slot	H&P 562 (25') (RKB) to Mean Sea Level	4757.00ft
Vertical Reference Pt	H&P 562 (25') (RKB)	H&P 562 (25') (RKB) to Mud Line at Slot (SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29))	4757.00ft
MD Reference Pt	H&P 562 (25') (RKB)		
Field Vertical Reference	Mean Sea Level		

POSITIONAL UNCERTAINTY CALCULATION SETTINGS

Ellipse Confidence Limit	3.00 Std Dev	Ellipse Start MD	25.00ft	Surface Position Uncertainty	Included
Declination	8.43° East of TN	Dip Angle	66.92°	Mag Field Strength	52500 nT
Slot Surface Uncertainty @1SD		Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD		Horizontal	8.200ft	Vertical	3.000ft

Positional Uncertainty values in the WELLPATH DATA table are the projection of the ellipsoid of uncertainty onto the vertical and horizontal planes



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

ANTI-COLLISION RULE

Rule Name	Baker Hughes Stop Drilling (offset is HSE risk)	Rule Based On	Ratio
Plane of Rule	Closest Approach	Threshold Value	1.00
Include Casing & Hole Size	yes	Apply Cone of Safety	no

HOLE & CASING SECTIONS - Ref Wellbore: GOETZEL 13N-30C-M PWB Ref Wellpath: GOETZEL 13N-30C-M REV-A.0 PWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	25.00	1700.00	1675.00	25.00	1687.58	0.00	0.00	-76.13	99.36
8.5in Open Hole	1700.00	15888.00	14188.00	1687.58	6974.00	-76.13	99.36	-1603.57	-7735.44

SURVEY PROGRAM - Ref Wellbore: GOETZEL 13N-30C-M PWB Ref Wellpath: GOETZEL 13N-30C-M REV-A.0 PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1700.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GOETZEL 13N-30C-M PWB
1700.00	15888.79	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 13N-30C-M PWB



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CALCULATION RANGE & CUTOFF

From: 25.00ft MD	To: 15888.79ft MD	C-C Cutoff: 1000.00 ft
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OFFSET WELL CLEARANCE SUMMARY (42 Offset Wellpaths selected) Ratios are calculated in Closest Approach plane

Offset Facility	Offset Slot	Offset Well	Offset Wellbore	Offset Wellpath	C-C Clearance Distance			ACR Separation Ratio			
					Ref MD [ft]	Min C-C Clear Dist [ft]	Diverging from MD [ft]	Ref MD of Min Ratio [ft]	Min Ratio	Min Ratio Dvrg from [ft]	ACR Status
SEC.30-T06N-R66W	SLOT#02 EX:ETTER #30-33 (860'FSL & 604'FWL SEC.30, 7237'MD)	ETTER #30-33	ETTER #30-33 AWB	ETTER #30-33 AWP	15436.95	75.11	15437.07	15436.95	0.13	15436.95	FAIL
SEC.30-T06N-R66W	SLOT#05 EX TIGGES #30-34 (860'FSL & 2380'FWL SEC.30, 7244'MD)	TIGGES #30-34	TIGGES #30-34 AWB	TIGGES #30-34 AWP	13722.63	75.33	13722.63	13722.63	0.15	13722.63	FAIL
SEC.30-T06N-R66W	SLOT#03 EX:LAFARGE WEST #30-35 (1118'FSL & 1186'FWL SEC.30,7251'MD)	LAFARGE WEST #30-35	LAFARGE WEST #30-35 AWB	LAFARGE WEST #30-35 AWP	14845.83	176.42	14845.83	14848.07	0.32	14848.07	FAIL
SEC.29-T06N-R66W	SLOT#21 GOETZEL 13N-30A-M (2157'FSL & 2053'FWL, SEC.29)	GOETZEL 13N-30A-M	GOETZEL 13N-30A-M PWB	GOETZEL 13N-30A-M REV-A.0 PWP	25.00	20.04	15888.79	15888.00	0.41	15888.00	FAIL
SEC.29-T06N-R66W	SLOT#19 GOETZEL 33N-30B-M (2197'FSL & 2053'FWL, SEC.29)	GOETZEL 33N-30B-M	GOETZEL 33N-30B-M PWB	GOETZEL 33N-30B-M REV-A.0 PWP	25.00	20.04	6425.00	15878.46	0.45	15878.46	FAIL
SEC.30-T06N-R66W	SLOT#06 EX FIRESTIEN #30-45 (1139'FSL & 1504'FEL SEC.30, 7251'MD)	FIRESTIEN #30-45	FIRESTIEN #30-45 AWB	FIRESTIEN #30-45 AWP	11703.16	193.96	11703.16	11707.33	0.47	11707.33	FAIL
SEC.29-T06N-R66W	SLOT#22 GOETZEL 13C-30-M (2137'FSL & 2053'FWL, SEC.29)	GOETZEL 13C-30-M	GOETZEL 13C-30-M PWB	GOETZEL 13C-30-M REV-A.0 PWP	25.00	40.08	15888.79	15888.00	0.49	15888.00	FAIL
SEC.29-T06N-R66W	SLOT#05 EX GOETZEL #2-39 (1988'FSL & 2185'FWL, SEC.29, PR, 7292)	GOETZEL #2-39	GOETZEL #2-39 AWB	GOETZEL #2-39 AWP	2056.74	74.94	7925.00	2080.00	0.56	8025.00	FAIL
SEC.29-T06N-R66W	SLOT#18 GOETZEL 33C-30-M (2217'FSL & 2053'FWL, SEC.29)	GOETZEL 33C-30-M	GOETZEL 33C-30-M PWB	GOETZEL 33C-30-M REV-A.0 PWP	25.00	40.08	850.00	15872.21	0.63	15872.21	FAIL
SEC.29-T06N-R66W	SLOT#23 GOETZEL 34N-30C-M (2117'FSL & 2053'FWL, SEC.29)	GOETZEL 34N-30C-M	GOETZEL 34N-30C-M PWB	GOETZEL 34N-30C-M REV-A.0 PWP	25.00	60.11	15565.87	15565.87	0.76	15565.87	FAIL
SEC.29-T06N-R66W	SLOT#17 GOETZEL 12N-30B-M (2237'FSL & 2053'FWL, SEC.29)	GOETZEL 12N-30B-M	GOETZEL 12N-30B-M PWB	GOETZEL 12N-30B-M REV-A.0 PWP	25.00	60.11	850.00	15867.96	0.80	15867.96	FAIL
SEC.30-T06N-R66W	SLOT#08 EX FIRESTIEN #30-44 (646'FSL & 668'FEL SEC.30, 7254'MD)	FIRESTIEN #30-44	FIRESTIEN #30-44 AWB	FIRESTIEN #30-44 AWP	10896.26	299.53	10896.26	10899.12	0.80	10899.12	FAIL
SEC.29-T06N-R66W	SLOT#01 TOLLGATE #1 (660'FSL & 630'FWL SEC.29, 7503'MD)	TOLLGATE #1	TOLLGATE #1 AWB	TOLLGATE #1 AWP	9635.99	298.67	9635.99	9640.75	0.94	9640.75	FAIL
SEC.29-T06N-R66W	SLOT#24 GOETZEL 34C-30-M (2097'FSL & 2053'FWL, SEC.29)	GOETZEL 34C-30-M	GOETZEL 34C-30-M PWB	GOETZEL 34C-30-M REV-A.0 PWP	25.00	80.15	15584.24	15584.24	1.05	15584.24	PASS
SEC.29-T06N-R66W	SLOT#16 GOETZEL 12N-30A-M (2257'FSL & 2053'FWL, SEC.29)	GOETZEL 12N-30A-M	GOETZEL 12N-30A-M PWB	GOETZEL 12N-30A-M REV-A.0 PWP	25.00	80.15	850.00	15871.33	1.24	15871.33	PASS
SEC.29-T06N-R66W	SLOT#15 GOETZEL 12N-30C-M (2277'FSL & 2053'FWL, SEC.29)	GOETZEL 12N-30C-M	GOETZEL 12N-30C-M PWB	GOETZEL 12N-30C-M REV-A.0 PWP	25.00	99.79	850.00	15868.68	1.39	15868.68	PASS
SEC.30-T06N-R66W	SLOT#01 EX:ETTER #30-32 (1980'FSL & 803'FWL SEC.30, 7240'MD)	ETTER #30-32	ETTER #30-32 AWB	ETTER #30-32 AWP	15130.00	841.01	15130.00	15166.25	1.49	15166.25	PASS
SEC.29-T06N-R66W	SLOT#06 EX GOETZEL #29-10G6 (1974'FSL & 2013'FEL, SEC.29, PR, 7220')	GOETZEL #29-10G6	GOETZEL #29-10G6 AWB	GOETZEL #29-10G6 AWP	5915.94	587.81	5915.94	6370.90	1.65	6370.90	PASS
SEC.29-T06N-R66W	SLOT#14 GOETZEL 32N-30B-M (2297'FSL & 2053'FWL, SEC.29)	GOETZEL 32N-30B-M	GOETZEL 32N-30B-M PWB	GOETZEL 32N-30B-M REV-A.0 PWP	25.00	119.82	850.00	15872.91	1.66	15872.91	PASS
SEC.29-T06N-R66W	SLOT#13 GOETZEL 32C-30-M2 (2317'FSL & 2053'FWL SEC.29)	GOETZEL 32C-30-M2	GOETZEL 32C-30-M2 PWB	GOETZEL 32C-30-M2 REV-A.0 PWP	25.00	139.86	850.00	15881.44	1.96	15881.44	PASS
SEC.29-T06N-R66W	SLOT#01 EX:GOETZEL #3-29 (425'FSL & 2065'FEL SEC.29,PR)	GOETZEL #3-29	GOETZEL #3-29 AWB	GOETZEL #3-29 AWP	7056.25	689.28	7056.25	7113.22	1.98	7113.22	PASS
SEC.30-T06N-R66W	SLOT#07 EX FIRESTIEN #30-4-21 (155'FSL & 1098'FEL SEC.30, 7194'MD)	FIRESTIEN #30-4-21	FIRESTIEN #30-4-21 AWB	FIRESTIEN #30-4-21 AWP	11356.23	789.25	11356.23	11395.07	2.00	11395.07	PASS
SEC.29-T06N-R66W	SLOT#10 EX TOLLGATE FARMS #29-12G6 (1987'FSL & 662'FWL, SEC.29, PA, 7215)	TOLLGATE FARMS #29-12G6	TOLLGATE FARMS #29-12G6 AWB	TOLLGATE FARMS #29-12G6 AWP	9595.00	1125.47	9595.00	9693.12	2.25	9693.12	PASS
	SLOT#12 GOETZEL 32N-30C-M (2093'FNL & 2447'FEL, SEC.29)	GOETZEL 32N-30C-M	GOETZEL 32N-30C-M PWB		1825.00	1319.76	1825.00	15888.00	2.35	15888.00	PASS

OFFSET WELL CLEARANCE SUMMARY (42 Offset Wellpaths selected) Ratios are calculated in Closest Approach plane											
Offset Facility	Offset Slot	Offset Well	Offset Wellbore	Offset Wellpath	C-C Clearance Distance			ACR Separation Ratio			
					Ref MD [ft]	Min C-C Clear Dist [ft]	Diverging from MD [ft]	Ref MD of Min Ratio [ft]	Min Ratio	Min Ratio Dvrg from [ft]	ACR Status
SEC.29-T06N-R66W				GOETZEL 32N-30C-M PWP (REV-C.0)							
SEC.29-T06N-R66W	SLOT#11 GOETZEL 32C-30-M (2073'FNL & 2446'FEL, SEC.29)	GOETZEL 32C-30-M	GOETZEL 32C-30-M PWB	GOETZEL 32C-30-M PWP (REV-C.0)	1025.00	1342.51	1025.00	15888.00	2.62	15888.00	PASS



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CALCULATION RANGE & CUTOFF

From: 25.00ft MD	To: 15888.79ft MD	C-C Cutoff: 1000.00 ft
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OFFSET WELL CLEARANCE SUMMARY (42 Offset Wellpaths selected) Ratios are calculated in Closest Approach plane

Offset Facility	Offset Slot	Offset Well	Offset Wellbore	Offset Wellpath	C-C Clearance Distance			ACR Separation Ratio			
					Ref MD [ft]	Min C-C Clear Dist [ft]	Diverging from MD [ft]	Ref MD of Min Ratio [ft]	Min Ratio	Min Ratio Dvrg from [ft]	ACR Status
SEC.29-T06N-R66W	SLOT#10 GOETZEL 5N-30B-M (2053'FNL & 2446'FEL, SEC.29)	GOETZEL 5N-30B-M	GOETZEL 5N-30B-M PWB	GOETZEL 5N-30B-M PWP (REV-C.0)	25.00	1358.43	850.00	15888.00	3.00	15888.00	PASS
SEC.29-T06N-R66W	SLOT#11 GOETZEL I #29-14 (515'FSL & 2490'FWL SEC.29, 7260'MD)	GOETZEL I #29-14	GOETZEL I #29-14 AWB	GOETZEL I #29-14 AWP	8236.22	375.60	8236.22	8249.44	3.06	8249.44	PASS
SEC.29-T06N-R66W	SLOT#09 GOETZEL 5C-30-M (2033'FNL & 2446'FEL, SEC.29)	GOETZEL 5C-30-M	GOETZEL 5C-30-M PWB	GOETZEL 5C-30-M PWP (REV-C.0)	25.00	1374.45	850.00	15888.00	3.17	15888.00	PASS
SEC.30-T06N-R66W	SLOT#04 EX TIGGES #30-31 (2170'FSL & 2550'FEL, SEC.30, PR, 7289')	TIGGES #30-31	TIGGES #30-31 AWB	TIGGES #30-31 AWP	13807.50	1195.94	13807.50	13911.49	3.38	13911.49	PASS
SEC.29-T06N-R66W	SLOT#08 GOETZEL 31N-30C-M (2013'FNL & 2446'FEL, SEC.29)	GOETZEL 31N-30C-M	GOETZEL 31N-30C-M PWB	GOETZEL 31N-30C-M PWP (REV-C.0)	25.00	1390.75	850.00	15888.00	3.43	15888.00	PASS
SEC.29-T06N-R66W	SLOT#07 GOETZEL 31C-30-M (1993'FNL & 2446'FEL, SEC.29)	GOETZEL 31C-30-M	GOETZEL 31C-30-M PWB	GOETZEL 31C-30-M PWP (REV-C.0)	25.00	1406.97	850.00	15888.00	3.71	15888.00	PASS
SEC.29-T06N-R66W	SLOT#06 GOETZEL 31N-30B-M (1913'FNL & 2446'FEL, SEC.29)	GOETZEL 31N-30B-M	GOETZEL 31N-30B-M PWB	GOETZEL 31N-30B-M PWP (REV-C.0)	25.00	1473.10	850.00	15888.00	3.96	15888.00	PASS
SEC.29-T06N-R66W	SLOT#05 GOETZEL 4C-30-M (1893'FNL & 2446'FEL, SEC.29)	GOETZEL 4C-30-M	GOETZEL 4C-30-M PWB	GOETZEL 4C-30-M PWP (REV-C.0)	25.00	1489.51	725.00	15888.00	4.24	15888.00	PASS
SEC.29-T06N-R66W	SLOT#04 GOETZEL 4N-30A-M (1873'FNL & 2446'FEL, SEC.29)	GOETZEL 4N-30A-M	GOETZEL 4N-30A-M PWB	GOETZEL 4N-30A-M PWP (REV-C.0)	25.00	1506.44	625.00	15888.00	4.50	15888.00	PASS
SEC.29-T06N-R66W	SLOT#03 GOETZEL 4N-30C-M (1853'FNL & 2445'FEL, SEC.29)	GOETZEL 4N-30C-M	GOETZEL 4N-30C-M PWB	GOETZEL 4N-30C-M PWP (REV-C.0)	25.00	1523.27	525.00	15888.00	4.80	15888.00	PASS
SEC.29-T06N-R66W	SLOT#02 GOETZEL 30C-30-M (1833'FNL & 2445'FEL, SEC.29)	GOETZEL 30C-30-M	GOETZEL 30C-30-M PWB	GOETZEL 30C-30-M PWP (REV-C.0)	25.00	1540.30	425.00	15825.00	5.22	15825.00	PASS
SEC.29-T06N-R66W	SLOT#01 GOETZEL 30N-30B-M (1813'FNL & 2445'FEL, SEC.29)	GOETZEL 30N-30B-M	GOETZEL 30N-30B-M PWB	GOETZEL 30N-30B-M PWP (REV-C.0)	25.00	1557.28	325.00	15888.00	5.49	15888.00	PASS
SEC.29-T06N-R66W	SLOT#04 EX GOETZEL #1-29 (1980'FNL & 1980'FEL, SEC.29, PR, 7208)	GOETZEL #1-29	GOETZEL #1-29 AWB	GOETZEL #1-29 AWP	2320.00	1682.00	2320.00	7151.83	5.54	7151.83	PASS
SEC.30-T06N-R66W	SLOT#01 EX HARRINGTON #1-30 (2310'FNL & 2805'FWL, SEC.30, SI, 4398)	HARRINGTON #1-30	HARRINGTON #1-30 AWB	HARRINGTON #1-30 AWP	13125.00	2996.45	13125.00	13874.42	8.07	13874.42	PASS
SEC.30-T06N-R66W	SLOT#01 EX FIRESTIEN #1-30 (610'FSL & 1820'FEL SEC.30, 4500'MD)	FIRESTIEN #1-30	FIRESTIEN #1-30 AWB	FIRESTIEN #1-30 AWP	12087.50	2471.67	12087.50	13592.51	18.53	13592.51	PASS
SEC.30-T06N-R66W	SLOT#03 EX BOB TIGGES #1-30 (800'FSL & 2745'FWL SEC.30, 4350'MD)	BOB TIGGES #1-30	BOB TIGGES #1-30 AWB	BOB TIGGES #1-30 AWP	13265.00	2597.62	13265.00	14790.21	19.00	14790.21	PASS
SEC.29-T06N-R66W	SLOT#01 GOETZEL 30N-30B-M (1813'FNL & 2445'FEL, SEC.29)	GOETZEL 30N-30B-M	GOETZEL 30N-30B-M AWB	GOETZEL 30N-30B-M AWP	25.00	1557.28	25.00	12946.34	76.06	12946.34	PASS



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: ETTER #30-33 AWB Offset Wellpath: ETTER #30-33 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#02 EX:ETTER #30-33 (860'FSL & 604'FWL SEC.30, 7237'MD) Well: ETTER #30-33 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	0.00	25.00	-1652.94	-7280.94	-102.79	7466.21	50.13	151.72	PASS
125.00†	125.00	0.00	0.00	100.00	125.00	-1652.94	-7280.94	-102.79	7466.21	52.43	144.94	PASS
225.00†	225.00	0.00	0.00	200.00	225.00	-1652.94	-7280.94	-102.79	7466.21	54.74	138.73	PASS
325.00†	325.00	0.00	0.00	300.00	325.00	-1652.94	-7280.94	-102.79	7466.21	57.05	133.01	PASS
425.00†	425.00	0.00	0.00	400.00	425.00	-1652.94	-7280.94	-102.79	7466.21	59.19	127.75	PASS
525.00†	525.00	0.00	0.00	500.00	525.00	-1652.94	-7280.94	-102.79	7466.21	61.51	122.87	PASS
625.00†	625.00	0.00	0.00	600.00	625.00	-1652.94	-7280.94	-102.79	7466.21	63.83	118.35	PASS
725.00†	725.00	0.00	0.00	700.00	725.00	-1652.94	-7280.94	-102.79	7466.21	66.16	114.14	PASS
825.00†	825.00	0.00	0.00	800.00	825.00	-1652.94	-7280.94	-102.79	7466.21	68.49	110.21	PASS
850.00	850.00	0.00	0.00	825.00	850.00	-1652.94	-7280.94	-102.79	7466.21	69.07	109.27	PASS
925.00†	924.99	-0.60	0.78	899.99	924.99	-1652.94	-7280.94	129.75	7466.84	70.83	106.54	PASS
1025.00†	1024.89	-3.25	4.24	999.89	1024.89	-1652.94	-7280.94	129.73	7469.63	73.18	103.12	PASS
1125.00†	1124.58	-8.02	10.47	1099.58	1124.58	-1652.94	-7280.94	129.70	7474.65	75.54	99.93	PASS
1225.00†	1223.93	-14.91	19.45	1198.93	1223.93	-1652.94	-7280.94	129.65	7481.90	77.90	96.96	PASS
1325.00†	1322.83	-23.90	31.19	1297.83	1322.83	-1652.94	-7280.94	129.59	7491.39	80.27	94.20	PASS
1425.00†	1421.15	-34.98	45.65	1396.15	1421.15	-1652.94	-7280.94	129.52	7503.11	82.63	91.63	PASS
1525.00†	1518.77	-48.14	62.83	1493.77	1518.77	-1652.94	-7280.94	129.42	7517.07	85.00	89.22	PASS
1625.00†	1615.58	-63.37	82.71	1590.58	1615.58	-1652.94	-7280.94	129.32	7533.26	87.37	86.96	PASS
1719.36	1706.08	-79.61	103.91	1681.08	1706.08	-1652.94	-7280.94	129.20	7550.58	89.34	85.02	PASS
1725.00†	1711.46	-80.64	105.24	1686.46	1711.46	-1652.94	-7280.94	129.21	7551.68	89.47	84.92	PASS
1825.00†	1806.89	-98.81	128.96	1781.89	1806.89	-1652.94	-7280.94	129.38	7571.13	91.69	83.06	PASS
1925.00†	1902.32	-116.99	152.69	1877.32	1902.32	-1652.94	-7280.94	129.54	7590.65	93.93	81.27	PASS
2025.00†	1997.75	-135.16	176.41	1972.75	1997.75	-1652.94	-7280.94	129.71	7610.23	96.20	79.55	PASS
2125.00†	2093.18	-153.34	200.13	2068.18	2093.18	-1652.94	-7280.94	129.88	7629.88	98.48	77.90	PASS
2225.00†	2188.61	-171.51	223.85	2163.61	2188.61	-1652.94	-7280.94	130.05	7649.60	100.78	76.31	PASS
2325.00†	2284.04	-189.69	247.57	2259.04	2284.04	-1652.94	-7280.94	130.22	7669.39	103.10	74.77	PASS
2425.00†	2379.48	-207.86	271.29	2354.48	2379.48	-1652.94	-7280.94	130.38	7689.24	105.44	73.29	PASS
2525.00†	2474.91	-226.04	295.01	2449.91	2474.91	-1652.94	-7280.94	130.55	7709.15	107.80	71.87	PASS
2625.00†	2570.34	-244.21	318.73	2545.34	2570.34	-1652.94	-7280.94	130.71	7729.13	110.18	70.49	PASS
2725.00†	2665.77	-262.39	342.45	2640.77	2665.77	-1652.94	-7280.94	130.87	7749.17	112.57	69.17	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: ETTER #30-33 AWB Offset Wellpath: ETTER #30-33 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#02 EX:ETTER #30-33 (860'FSL & 604'FWL SEC.30, 7237'MD) Well: ETTER #30-33 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2825.00†	2761.20	-280.56	366.17	2736.20	2761.20	-1652.94	-7280.94	131.04	7769.28	114.98	67.89	PASS
2925.00†	2856.63	-298.74	389.89	2831.63	2856.63	-1652.94	-7280.94	131.20	7789.45	117.41	66.65	PASS
3025.00†	2952.06	-316.91	413.61	2927.06	2952.06	-1652.94	-7280.94	131.36	7809.68	119.85	65.45	PASS
3125.00†	3047.49	-335.08	437.33	3022.49	3047.49	-1652.94	-7280.94	131.52	7829.97	122.31	64.30	PASS
3225.00†	3142.92	-353.26	461.05	3117.92	3142.92	-1652.94	-7280.94	131.68	7850.32	124.78	63.18	PASS
3325.00†	3238.35	-371.43	484.77	3213.35	3238.35	-1652.94	-7280.94	131.84	7870.74	127.26	62.11	PASS
3425.00†	3333.78	-389.61	508.49	3308.78	3333.78	-1652.94	-7280.94	131.99	7891.21	129.76	61.06	PASS
3525.00†	3429.21	-407.78	532.21	3404.21	3429.21	-1652.94	-7280.94	132.15	7911.75	132.28	60.05	PASS
3625.00†	3524.64	-425.96	555.93	3499.64	3524.64	-1652.94	-7280.94	132.31	7932.34	134.80	59.08	PASS
3725.00†	3620.07	-444.13	579.65	3595.07	3620.07	-1652.94	-7280.94	132.46	7952.99	137.34	58.13	PASS
3825.00†	3715.51	-462.31	603.37	3690.51	3715.51	-1652.94	-7280.94	132.62	7973.70	139.89	57.22	PASS
3925.00†	3810.94	-480.48	627.09	3785.94	3810.94	-1652.94	-7280.94	132.77	7994.47	142.46	56.33	PASS
4025.00†	3906.37	-498.66	650.81	3881.37	3906.37	-1652.94	-7280.94	132.92	8015.30	145.03	55.47	PASS
4125.00†	4001.80	-516.83	674.53	3976.80	4001.80	-1652.94	-7280.94	133.07	8036.19	147.61	54.64	PASS
4225.00†	4097.23	-535.01	698.25	4072.23	4097.23	-1652.94	-7280.94	133.23	8057.13	150.20	53.83	PASS
4325.00†	4192.66	-553.18	721.97	4167.66	4192.66	-1652.94	-7280.94	133.38	8078.12	152.81	53.05	PASS
4425.00†	4288.09	-571.36	745.69	4263.09	4288.09	-1652.94	-7280.94	133.53	8099.18	155.42	52.29	PASS
4525.00†	4383.52	-589.53	769.41	4358.52	4383.52	-1652.94	-7280.94	133.68	8120.29	158.04	51.56	PASS
4625.00†	4478.95	-607.71	793.14	4453.95	4478.95	-1652.94	-7280.94	133.82	8141.45	160.67	50.84	PASS
4725.00†	4574.38	-625.88	816.86	4549.38	4574.38	-1652.94	-7280.94	133.97	8162.67	163.30	50.15	PASS
4825.00†	4669.81	-644.05	840.58	4644.81	4669.81	-1652.94	-7280.94	134.12	8183.94	165.95	49.47	PASS
4925.00†	4765.24	-662.23	864.30	4740.24	4765.24	-1652.94	-7280.94	134.27	8205.26	168.60	48.82	PASS
5025.00†	4860.67	-680.40	888.02	4835.67	4860.67	-1652.94	-7280.94	134.41	8226.64	171.26	48.19	PASS
5125.00†	4956.11	-698.58	911.74	4931.11	4956.11	-1652.94	-7280.94	134.56	8248.08	173.92	47.57	PASS
5225.00†	5051.54	-716.75	935.46	5026.54	5051.54	-1652.94	-7280.94	134.70	8269.56	176.59	46.97	PASS
5325.00†	5146.97	-734.93	959.18	5121.97	5146.97	-1652.94	-7280.94	134.84	8291.10	179.27	46.39	PASS
5425.00†	5242.40	-753.10	982.90	5217.40	5242.40	-1652.94	-7280.94	134.99	8312.68	181.95	45.82	PASS
5525.00†	5337.83	-771.28	1006.62	5312.83	5337.83	-1652.94	-7280.94	135.13	8334.32	184.64	45.27	PASS
5625.00†	5433.26	-789.45	1030.34	5408.26	5433.26	-1652.94	-7280.94	135.27	8356.01	187.34	44.73	PASS
5725.00†	5528.69	-807.63	1054.06	5503.69	5528.69	-1652.94	-7280.94	135.41	8377.75	190.04	44.21	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: ETTER #30-33 AWB Offset Wellpath: ETTER #30-33 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#02 EX:ETTER #30-33 (860'FSL & 604'FWL SEC.30, 7237'MD) Well: ETTER #30-33 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5825.00†	5624.12	-825.80	1077.78	5599.12	5624.12	-1652.94	-7280.94	135.55	8399.54	192.74	43.70	PASS
5925.00†	5719.55	-843.98	1101.50	5694.55	5719.55	-1652.94	-7280.94	135.69	8421.38	195.45	43.20	PASS
6025.00†	5814.98	-862.15	1125.22	5789.98	5814.98	-1652.94	-7280.94	135.83	8443.27	198.16	42.72	PASS
6125.00†	5910.41	-880.33	1148.94	5885.41	5910.41	-1652.94	-7280.94	135.97	8465.21	200.88	42.25	PASS
6225.00†	6005.84	-898.50	1172.66	5980.84	6005.84	-1652.94	-7280.94	136.10	8487.20	203.60	41.79	PASS
6325.00†	6101.27	-916.68	1196.38	6076.27	6101.27	-1652.94	-7280.94	136.24	8509.23	206.32	41.35	PASS
6337.66	6113.36	-918.98	1199.39	6088.36	6113.36	-1652.94	-7280.94	136.26	8512.03	206.67	41.29	PASS
6425.00†	6197.68	-935.35	1214.89	6172.68	6197.68	-1652.94	-7280.94	115.95	8526.08	209.09	40.88	PASS
6525.00†	6295.51	-955.09	1219.69	6270.51	6295.51	-1652.94	-7280.94	79.39	8529.23	212.08	40.32	PASS
6625.00†	6392.89	-975.53	1210.57	6367.89	6392.89	-1652.94	-7280.94	48.63	8518.49	215.08	39.70	PASS
6725.00†	6487.92	-996.27	1187.72	6462.92	6487.92	-1652.94	-7280.94	32.40	8494.08	218.02	39.06	PASS
6825.00†	6578.76	-1016.92	1151.57	6553.76	6578.76	-1652.94	-7280.94	23.91	8456.46	220.69	38.41	PASS
6925.00†	6663.63	-1037.05	1102.83	6638.63	6663.63	-1652.94	-7280.94	19.00	8406.36	223.06	37.78	PASS
7025.00†	6740.88	-1056.30	1042.46	6715.88	6740.88	-1652.94	-7280.94	15.90	8344.75	225.13	37.15	PASS
7125.00†	6809.01	-1074.27	971.61	6784.01	6809.01	-1652.94	-7280.94	13.80	8272.82	226.88	36.55	PASS
7225.00†	6866.70	-1090.62	891.68	6841.70	6866.70	-1652.94	-7280.94	12.30	8191.95	228.30	35.97	PASS
7325.00†	6912.82	-1105.03	804.22	6887.82	6912.82	-1652.94	-7280.94	11.12	8103.71	229.40	35.41	PASS
7425.00†	6946.47	-1117.23	710.93	6921.47	6946.47	-1652.94	-7280.94	9.95	8009.81	230.17	34.88	PASS
7525.00†	6966.99	-1126.96	613.63	6941.99	6966.99	-1652.94	-7280.94	7.76	7912.07	230.62	34.39	PASS
7625.00†	6974.00	-1134.06	514.21	6949.00	6974.00	-1652.94	-7280.94	-79.13	7812.40	230.78	33.93	PASS
7626.30	6974.00	-1134.13	512.92	6949.00	6974.00	-1652.94	-7280.94	-90.00	7811.10	230.78	33.92	PASS
7725.00†	6974.00	-1139.74	414.37	6949.00	6974.00	-1652.94	-7280.94	-90.00	7712.41	230.78	33.50	PASS
7825.00†	6974.00	-1145.42	314.54	6949.00	6974.00	-1652.94	-7280.94	-90.00	7612.41	230.78	33.06	PASS
7925.00†	6974.00	-1151.10	214.70	6949.00	6974.00	-1652.94	-7280.94	-90.00	7512.42	230.78	32.63	PASS
8025.00†	6974.00	-1156.78	114.86	6949.00	6974.00	-1652.94	-7280.94	-90.00	7412.42	230.79	32.19	PASS
8125.00†	6974.00	-1162.47	15.02	6949.00	6974.00	-1652.94	-7280.94	-90.00	7312.43	230.79	31.76	PASS
8225.00†	6974.00	-1168.15	-84.82	6949.00	6974.00	-1652.94	-7280.94	-90.00	7212.43	230.80	31.32	PASS
8325.00†	6974.00	-1173.83	-184.66	6949.00	6974.00	-1652.94	-7280.94	-90.00	7112.44	230.81	30.89	PASS
8425.00†	6974.00	-1179.51	-284.49	6949.00	6974.00	-1652.94	-7280.94	-90.00	7012.44	230.82	30.45	PASS
8525.00†	6974.00	-1185.20	-384.33	6949.00	6974.00	-1652.94	-7280.94	-90.00	6912.45	230.83	30.01	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: ETTER #30-33 AWB Offset Wellpath: ETTER #30-33 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#02 EX:ETTER #30-33 (860'FSL & 604'FWL SEC.30, 7237'MD) Well: ETTER #30-33 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8625.00†	6974.00	-1190.88	-484.17	6949.00	6974.00	-1652.94	-7280.94	-90.00	6812.46	230.84	29.58	PASS
8725.00†	6974.00	-1196.56	-584.01	6949.00	6974.00	-1652.94	-7280.94	-90.00	6712.46	230.86	29.14	PASS
8825.00†	6974.00	-1202.24	-683.85	6949.00	6974.00	-1652.94	-7280.94	-90.00	6612.47	230.88	28.71	PASS
8925.00†	6974.00	-1207.92	-783.69	6949.00	6974.00	-1652.94	-7280.94	-90.00	6512.48	230.89	28.27	PASS
9025.00†	6974.00	-1213.61	-883.52	6949.00	6974.00	-1652.94	-7280.94	-90.00	6412.48	230.91	27.83	PASS
9125.00†	6974.00	-1219.29	-983.36	6949.00	6974.00	-1652.94	-7280.94	-90.00	6312.49	230.93	27.40	PASS
9225.00†	6974.00	-1224.97	-1083.20	6949.00	6974.00	-1652.94	-7280.94	-90.00	6212.50	230.95	26.96	PASS
9325.00†	6974.00	-1230.65	-1183.04	6949.00	6974.00	-1652.94	-7280.94	-90.00	6112.50	230.98	26.52	PASS
9425.00†	6974.00	-1236.33	-1282.88	6949.00	6974.00	-1652.94	-7280.94	-90.00	6012.51	231.00	26.09	PASS
9525.00†	6974.00	-1242.02	-1382.72	6949.00	6974.00	-1652.94	-7280.94	-90.00	5912.52	231.03	25.65	PASS
9625.00†	6974.00	-1247.70	-1482.56	6949.00	6974.00	-1652.94	-7280.94	-90.00	5812.53	231.06	25.21	PASS
9725.00†	6974.00	-1253.38	-1582.39	6949.00	6974.00	-1652.94	-7280.94	-90.00	5712.54	231.09	24.78	PASS
9825.00†	6974.00	-1259.06	-1682.23	6949.00	6974.00	-1652.94	-7280.94	-90.00	5612.54	231.12	24.34	PASS
9925.00†	6974.00	-1264.75	-1782.07	6949.00	6974.00	-1652.94	-7280.94	-90.00	5512.55	231.16	23.90	PASS
10025.00†	6974.00	-1270.43	-1881.91	6949.00	6974.00	-1652.94	-7280.94	-90.00	5412.56	231.19	23.46	PASS
10125.00†	6974.00	-1276.11	-1981.75	6949.00	6974.00	-1652.94	-7280.94	-90.00	5312.57	231.23	23.03	PASS
10225.00†	6974.00	-1281.79	-2081.59	6949.00	6974.00	-1652.94	-7280.94	-90.00	5212.58	231.27	22.59	PASS
10325.00†	6974.00	-1287.47	-2181.42	6949.00	6974.00	-1652.94	-7280.94	-90.00	5112.59	231.31	22.15	PASS
10425.00†	6974.00	-1293.16	-2281.26	6949.00	6974.00	-1652.94	-7280.94	-90.00	5012.60	231.36	21.71	PASS
10525.00†	6974.00	-1298.84	-2381.10	6949.00	6974.00	-1652.94	-7280.94	-90.00	4912.62	231.40	21.28	PASS
10625.00†	6974.00	-1304.52	-2480.94	6949.00	6974.00	-1652.94	-7280.94	-90.00	4812.63	231.45	20.84	PASS
10725.00†	6974.00	-1310.20	-2580.78	6949.00	6974.00	-1652.94	-7280.94	-90.00	4712.64	231.50	20.40	PASS
10825.00†	6974.00	-1315.88	-2680.62	6949.00	6974.00	-1652.94	-7280.94	-90.00	4612.65	231.55	19.96	PASS
10925.00†	6974.00	-1321.57	-2780.46	6949.00	6974.00	-1652.94	-7280.94	-90.00	4512.67	231.61	19.53	PASS
11025.00†	6974.00	-1327.25	-2880.29	6949.00	6974.00	-1652.94	-7280.94	-90.00	4412.68	231.66	19.09	PASS
11125.00†	6974.00	-1332.93	-2980.13	6949.00	6974.00	-1652.94	-7280.94	-90.00	4312.70	231.72	18.65	PASS
11225.00†	6974.00	-1338.61	-3079.97	6949.00	6974.00	-1652.94	-7280.94	-90.00	4212.71	231.79	18.22	PASS
11325.00†	6974.00	-1344.30	-3179.81	6949.00	6974.00	-1652.94	-7280.94	-90.00	4112.73	231.85	17.78	PASS
11425.00†	6974.00	-1349.98	-3279.65	6949.00	6974.00	-1652.94	-7280.94	-90.00	4012.74	231.92	17.34	PASS
11525.00†	6974.00	-1355.66	-3379.49	6949.00	6974.00	-1652.94	-7280.94	-90.00	3912.76	232.00	16.90	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: ETTER #30-33 AWB Offset Wellpath: ETTER #30-33 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#02 EX:ETTER #30-33 (860'FSL & 604'FWL SEC.30, 7237'MD) Well: ETTER #30-33 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11625.00†	6974.00	-1361.34	-3479.32	6949.00	6974.00	-1652.94	-7280.94	-90.00	3812.78	232.07	16.47	PASS
11725.00†	6974.00	-1367.02	-3579.16	6949.00	6974.00	-1652.94	-7280.94	-90.00	3712.80	232.15	16.03	PASS
11825.00†	6974.00	-1372.71	-3679.00	6949.00	6974.00	-1652.94	-7280.94	-90.00	3612.82	232.24	15.59	PASS
11925.00†	6974.00	-1378.39	-3778.84	6949.00	6974.00	-1652.94	-7280.94	-90.00	3512.84	232.33	15.15	PASS
12025.00†	6974.00	-1384.07	-3878.68	6949.00	6974.00	-1652.94	-7280.94	-90.00	3412.87	232.42	14.72	PASS
12125.00†	6974.00	-1389.75	-3978.52	6949.00	6974.00	-1652.94	-7280.94	-90.00	3312.89	232.52	14.28	PASS
12225.00†	6974.00	-1395.44	-4078.35	6949.00	6974.00	-1652.94	-7280.94	-90.00	3212.92	232.63	13.84	PASS
12325.00†	6974.00	-1401.12	-4178.19	6949.00	6974.00	-1652.94	-7280.94	-90.00	3112.95	232.74	13.40	PASS
12425.00†	6974.00	-1406.80	-4278.03	6949.00	6974.00	-1652.94	-7280.94	-90.00	3012.98	232.86	12.97	PASS
12525.00†	6974.00	-1412.48	-4377.87	6949.00	6974.00	-1652.94	-7280.94	-90.00	2913.01	232.98	12.53	PASS
12625.00†	6974.00	-1418.16	-4477.71	6949.00	6974.00	-1652.94	-7280.94	-90.00	2813.04	233.12	12.09	PASS
12725.00†	6974.00	-1423.85	-4577.55	6949.00	6974.00	-1652.94	-7280.94	-90.00	2713.08	233.26	11.66	PASS
12825.00†	6974.00	-1429.53	-4677.39	6949.00	6974.00	-1652.94	-7280.94	-90.00	2613.12	233.42	11.22	PASS
12925.00†	6974.00	-1435.21	-4777.22	6949.00	6974.00	-1652.94	-7280.94	-90.00	2513.16	233.59	10.78	PASS
13025.00†	6974.00	-1440.89	-4877.06	6949.00	6974.00	-1652.94	-7280.94	-90.00	2413.21	233.77	10.34	PASS
13125.00†	6974.00	-1446.57	-4976.90	6949.00	6974.00	-1652.94	-7280.94	-90.00	2313.26	233.97	9.91	PASS
13225.00†	6974.00	-1452.26	-5076.74	6949.00	6974.00	-1652.94	-7280.94	-90.00	2213.32	234.19	9.47	PASS
13325.00†	6974.00	-1457.94	-5176.58	6949.00	6974.00	-1652.94	-7280.94	-90.00	2113.38	234.44	9.03	PASS
13425.00†	6974.00	-1463.62	-5276.42	6949.00	6974.00	-1652.94	-7280.94	-90.00	2013.44	234.71	8.60	PASS
13525.00†	6974.00	-1469.30	-5376.25	6949.00	6974.00	-1652.94	-7280.94	-90.00	1913.52	235.01	8.16	PASS
13625.00†	6974.00	-1474.99	-5476.09	6949.00	6974.00	-1652.94	-7280.94	-90.00	1813.60	235.36	7.72	PASS
13725.00†	6974.00	-1480.67	-5575.93	6949.00	6974.00	-1652.94	-7280.94	-90.00	1713.69	235.75	7.28	PASS
13825.00†	6974.00	-1486.35	-5675.77	6949.00	6974.00	-1652.94	-7280.94	-90.00	1613.79	236.20	6.85	PASS
13925.00†	6974.00	-1492.03	-5775.61	6949.00	6974.00	-1652.94	-7280.94	-90.00	1513.91	236.73	6.41	PASS
14025.00†	6974.00	-1497.71	-5875.45	6949.00	6974.00	-1652.94	-7280.94	-90.00	1414.04	237.35	5.97	PASS
14125.00†	6974.00	-1503.40	-5975.29	6949.00	6974.00	-1652.94	-7280.94	-90.00	1314.19	238.09	5.53	PASS
14225.00†	6974.00	-1509.08	-6075.12	6949.00	6974.00	-1652.94	-7280.94	-90.00	1214.37	238.99	5.09	PASS
14325.00†	6974.00	-1514.76	-6174.96	6949.00	6974.00	-1652.94	-7280.94	-90.00	1114.58	240.10	4.65	PASS
14425.00†	6974.00	-1520.44	-6274.80	6949.00	6974.00	-1652.94	-7280.94	-90.00	1014.83	241.50	4.21	PASS
14525.00†	6974.00	-1526.12	-6374.64	6949.00	6974.00	-1652.94	-7280.94	-90.00	915.13	243.30	3.77	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: ETTER #30-33 AWB Offset Wellpath: ETTER #30-33 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#02 EX:ETTER #30-33 (860'FSL & 604'FWL SEC.30, 7237'MD) Well: ETTER #30-33 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14625.00†	6974.00	-1531.81	-6474.48	6949.00	6974.00	-1652.94	-7280.94	-90.00	815.51	245.67	3.32	PASS
14725.00†	6974.00	-1537.49	-6574.32	6949.00	6974.00	-1652.94	-7280.94	-90.00	715.99	248.92	2.88	PASS
14825.00†	6974.00	-1543.17	-6674.15	6949.00	6974.00	-1652.94	-7280.94	-90.00	616.63	253.51	2.44	PASS
14925.00†	6974.00	-1548.85	-6773.99	6949.00	6974.00	-1652.94	-7280.94	-90.00	517.52	260.32	1.99	PASS
15025.00†	6974.00	-1554.54	-6873.83	6949.00	6974.00	-1652.94	-7280.94	-90.00	418.83	271.07	1.55	PASS
15125.00†	6974.00	-1560.22	-6973.67	6949.00	6974.00	-1652.94	-7280.94	-90.00	320.95	289.49	1.11	PASS
15225.00†	6974.00	-1565.90	-7073.51	6949.00	6974.00	-1652.94	-7280.94	-90.00	224.95	325.27	0.69	FAIL
15325.00†	6974.00	-1571.58	-7173.35	6949.00	6974.00	-1652.94	-7280.94	-90.00	134.89	409.00	0.33	FAIL
15425.00†	6974.00	-1577.26	-7273.18	6949.00	6974.00	-1652.94	-7280.94	-90.00	76.07	574.30	0.13	FAIL
15436.95†	6974.00	-1577.94	-7285.12	6949.00	6974.00	-1652.94	-7280.94	-90.00	75.11	579.01	0.13	FAIL
15437.07†	6974.00	-1577.95	-7285.23	6948.99	6973.99	-1652.94	-7280.94	-89.99	75.11	579.00	0.13	FAIL
15525.00†	6974.00	-1582.95	-7373.02	6949.00	6974.00	-1652.94	-7280.94	-90.00	115.66	442.64	0.26	FAIL
15625.00†	6974.00	-1588.63	-7472.86	6949.00	6974.00	-1652.94	-7280.94	-90.00	202.41	337.01	0.60	FAIL
15725.00†	6974.00	-1594.31	-7572.70	6949.00	6974.00	-1652.94	-7280.94	-90.00	297.59	294.07	1.01	PASS
15825.00†	6974.00	-1599.99	-7672.54	6949.00	6974.00	-1652.94	-7280.94	-90.00	395.16	272.99	1.45	PASS
15888.79	6974.00	-1603.62	-7736.23	6949.00	6974.00	-1652.94	-7280.94	-90.00	457.95	264.39	1.73	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: ETTER #30-33 AWB Offset Wellpath: ETTER #30-33 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

HOLE & CASING SECTIONS - Offset Wellbore: ETTER #30-33 AWB Offset Wellpath: ETTER #30-33 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	0.00	399.00	399.00	0.00	399.00	-1006.98	-4438.61	-1006.98	-4438.61
8.625in Casing Surface	0.00	399.00	399.00	0.00	399.00	-1006.98	-4438.61	-1006.98	-4438.61
7.875in Open Hole	399.00	7229.00	6830.00	399.00	7229.00	-1006.98	-4438.61	-1006.98	-4438.61
4.5in Casing Production	0.00	7229.00	7229.00	0.00	7229.00	-1006.98	-4438.61	-1006.98	-4438.61

WELLPATH COMPOSITION - Offset Wellbore: ETTER #30-33 AWB Offset Wellpath: ETTER #30-33 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7237.00	Drift Indicator - Inclination Only (Actual Survey)	DRIFT INDICATOR TO TD <7237' FROM CO WEBSITE>	ETTER #30-33 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: ETTER #30-33 AWB Offset Wellpath: ETTER #30-33 AWP

MD Reference: Rig on SLOT#03 EX:ETTER #30-33 (860'FSL & 604'FWL SEC.30, 7237'MD) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: TIGGES #30-34 AWB Offset Wellpath: TIGGES #30-34 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#05 EX TIGGES #30-34 (860'FSL & 2380'FWL SEC.30, 7244'MD) Well: TIGGES #30-34 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	-8.00	25.00	-1555.75	-5569.36	-105.61	5782.57	25.73	235.00	PASS
125.00†	125.00	0.00	0.00	92.00	125.00	-1555.75	-5569.36	-105.61	5782.57	52.24	112.65	PASS
225.00†	225.00	0.00	0.00	192.00	225.00	-1555.75	-5569.36	-105.61	5782.57	54.55	107.81	PASS
325.00†	325.00	0.00	0.00	292.00	325.00	-1555.75	-5569.36	-105.61	5782.57	56.86	103.35	PASS
425.00†	425.00	0.00	0.00	392.00	425.00	-1555.75	-5569.36	-105.61	5782.57	59.01	99.25	PASS
525.00†	525.00	0.00	0.00	492.00	525.00	-1555.75	-5569.36	-105.61	5782.57	61.33	95.45	PASS
625.00†	625.00	0.00	0.00	592.00	625.00	-1555.75	-5569.36	-105.61	5782.57	63.65	91.92	PASS
725.00†	725.00	0.00	0.00	692.00	725.00	-1555.75	-5569.36	-105.61	5782.57	65.98	88.64	PASS
825.00†	825.00	0.00	0.00	792.00	825.00	-1555.75	-5569.36	-105.61	5782.57	68.31	85.58	PASS
850.00	850.00	0.00	0.00	817.00	850.00	-1555.75	-5569.36	-105.61	5782.57	68.89	84.85	PASS
925.00†	924.99	-0.60	0.78	891.99	924.99	-1555.75	-5569.36	126.93	5783.16	70.64	82.73	PASS
1025.00†	1024.89	-3.25	4.24	991.89	1024.89	-1555.75	-5569.36	126.92	5785.78	72.99	80.08	PASS
1125.00†	1124.58	-8.02	10.47	1091.58	1124.58	-1555.75	-5569.36	126.91	5790.50	75.35	77.61	PASS
1225.00†	1223.93	-14.91	19.45	1190.93	1223.93	-1555.75	-5569.36	126.89	5797.33	77.72	75.31	PASS
1325.00†	1322.83	-23.90	31.19	1289.83	1322.83	-1555.75	-5569.36	126.86	5806.26	80.08	73.18	PASS
1425.00†	1421.15	-34.98	45.65	1388.15	1421.15	-1555.75	-5569.36	126.83	5817.31	82.44	71.20	PASS
1525.00†	1518.77	-48.14	62.83	1485.77	1518.77	-1555.75	-5569.36	126.78	5830.47	84.81	69.36	PASS
1625.00†	1615.58	-63.37	82.71	1582.58	1615.58	-1555.75	-5569.36	126.73	5845.77	87.18	67.63	PASS
1719.36	1706.08	-79.61	103.91	1673.08	1706.08	-1555.75	-5569.36	126.66	5862.16	89.15	66.15	PASS
1725.00†	1711.46	-80.64	105.24	1678.46	1711.46	-1555.75	-5569.36	126.68	5863.19	89.28	66.07	PASS
1825.00†	1806.89	-98.81	128.96	1773.89	1806.89	-1555.75	-5569.36	126.90	5881.63	91.50	64.66	PASS
1925.00†	1902.32	-116.99	152.69	1869.32	1902.32	-1555.75	-5569.36	127.13	5900.15	93.75	63.30	PASS
2025.00†	1997.75	-135.16	176.41	1964.75	1997.75	-1555.75	-5569.36	127.35	5918.77	96.01	61.99	PASS
2125.00†	2093.18	-153.34	200.13	2060.18	2093.18	-1555.75	-5569.36	127.58	5937.48	98.30	60.73	PASS
2225.00†	2188.61	-171.51	223.85	2155.61	2188.61	-1555.75	-5569.36	127.80	5956.28	100.60	59.52	PASS
2325.00†	2284.04	-189.69	247.57	2251.04	2284.04	-1555.75	-5569.36	128.02	5975.17	102.93	58.35	PASS
2425.00†	2379.48	-207.86	271.29	2346.48	2379.48	-1555.75	-5569.36	128.24	5994.16	105.27	57.23	PASS
2525.00†	2474.91	-226.04	295.01	2441.91	2474.91	-1555.75	-5569.36	128.45	6013.23	107.63	56.15	PASS
2625.00†	2570.34	-244.21	318.73	2537.34	2570.34	-1555.75	-5569.36	128.67	6032.38	110.01	55.10	PASS
2725.00†	2665.77	-262.39	342.45	2632.77	2665.77	-1555.75	-5569.36	128.88	6051.63	112.41	54.09	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: TIGGES #30-34 AWB Offset Wellpath: TIGGES #30-34 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#05 EX TIGGES #30-34 (860'FSL & 2380'FWL SEC.30, 7244'MD) Well: TIGGES #30-34 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2825.00†	2761.20	-280.56	366.17	2728.20	2761.20	-1555.75	-5569.36	129.10	6070.96	114.82	53.12	PASS
2925.00†	2856.63	-298.74	389.89	2823.63	2856.63	-1555.75	-5569.36	129.31	6090.38	117.25	52.18	PASS
3025.00†	2952.06	-316.91	413.61	2919.06	2952.06	-1555.75	-5569.36	129.52	6109.88	119.70	51.27	PASS
3125.00†	3047.49	-335.08	437.33	3014.49	3047.49	-1555.75	-5569.36	129.73	6129.46	122.16	50.39	PASS
3225.00†	3142.92	-353.26	461.05	3109.92	3142.92	-1555.75	-5569.36	129.94	6149.13	124.64	49.55	PASS
3325.00†	3238.35	-371.43	484.77	3205.35	3238.35	-1555.75	-5569.36	130.15	6168.88	127.13	48.73	PASS
3425.00†	3333.78	-389.61	508.49	3300.78	3333.78	-1555.75	-5569.36	130.35	6188.71	129.63	47.94	PASS
3525.00†	3429.21	-407.78	532.21	3396.21	3429.21	-1555.75	-5569.36	130.56	6208.62	132.15	47.17	PASS
3625.00†	3524.64	-425.96	555.93	3491.64	3524.64	-1555.75	-5569.36	130.76	6228.61	134.68	46.43	PASS
3725.00†	3620.07	-444.13	579.65	3587.07	3620.07	-1555.75	-5569.36	130.96	6248.68	137.22	45.71	PASS
3825.00†	3715.51	-462.31	603.37	3682.51	3715.51	-1555.75	-5569.36	131.16	6268.83	139.77	45.02	PASS
3925.00†	3810.94	-480.48	627.09	3777.94	3810.94	-1555.75	-5569.36	131.36	6289.05	142.34	44.35	PASS
4025.00†	3906.37	-498.66	650.81	3873.37	3906.37	-1555.75	-5569.36	131.56	6309.35	144.91	43.70	PASS
4125.00†	4001.80	-516.83	674.53	3968.80	4001.80	-1555.75	-5569.36	131.76	6329.73	147.50	43.07	PASS
4225.00†	4097.23	-535.01	698.25	4064.23	4097.23	-1555.75	-5569.36	131.96	6350.18	150.09	42.46	PASS
4325.00†	4192.66	-553.18	721.97	4159.66	4192.66	-1555.75	-5569.36	132.15	6370.71	152.70	41.87	PASS
4425.00†	4288.09	-571.36	745.69	4255.09	4288.09	-1555.75	-5569.36	132.34	6391.31	155.31	41.29	PASS
4525.00†	4383.52	-589.53	769.41	4350.52	4383.52	-1555.75	-5569.36	132.54	6411.99	157.93	40.74	PASS
4625.00†	4478.95	-607.71	793.14	4445.95	4478.95	-1555.75	-5569.36	132.73	6432.73	160.56	40.20	PASS
4725.00†	4574.38	-625.88	816.86	4541.38	4574.38	-1555.75	-5569.36	132.92	6453.55	163.20	39.67	PASS
4825.00†	4669.81	-644.05	840.58	4636.81	4669.81	-1555.75	-5569.36	133.11	6474.44	165.85	39.16	PASS
4925.00†	4765.24	-662.23	864.30	4732.24	4765.24	-1555.75	-5569.36	133.29	6495.40	168.50	38.67	PASS
5025.00†	4860.67	-680.40	888.02	4827.67	4860.67	-1555.75	-5569.36	133.48	6516.43	171.16	38.19	PASS
5125.00†	4956.11	-698.58	911.74	4923.11	4956.11	-1555.75	-5569.36	133.67	6537.53	173.82	37.72	PASS
5225.00†	5051.54	-716.75	935.46	5018.54	5051.54	-1555.75	-5569.36	133.85	6558.70	176.49	37.27	PASS
5325.00†	5146.97	-734.93	959.18	5113.97	5146.97	-1555.75	-5569.36	134.04	6579.93	179.17	36.83	PASS
5425.00†	5242.40	-753.10	982.90	5209.40	5242.40	-1555.75	-5569.36	134.22	6601.23	181.85	36.40	PASS
5525.00†	5337.83	-771.28	1006.62	5304.83	5337.83	-1555.75	-5569.36	134.40	6622.60	184.54	35.99	PASS
5625.00†	5433.26	-789.45	1030.34	5400.26	5433.26	-1555.75	-5569.36	134.58	6644.03	187.24	35.58	PASS
5725.00†	5528.69	-807.63	1054.06	5495.69	5528.69	-1555.75	-5569.36	134.76	6665.53	189.93	35.19	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



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GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: TIGGES #30-34 AWB Offset Wellpath: TIGGES #30-34 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#05 EX TIGGES #30-34 (860'FSL & 2380'FWL SEC.30, 7244'MD) Well: TIGGES #30-34 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5825.00†	5624.12	-825.80	1077.78	5591.12	5624.12	-1555.75	-5569.36	134.93	6687.09	192.64	34.81	PASS
5925.00†	5719.55	-843.98	1101.50	5686.55	5719.55	-1555.75	-5569.36	135.11	6708.72	195.34	34.44	PASS
6025.00†	5814.98	-862.15	1125.22	5781.98	5814.98	-1555.75	-5569.36	135.29	6730.41	198.05	34.07	PASS
6125.00†	5910.41	-880.33	1148.94	5877.41	5910.41	-1555.75	-5569.36	135.46	6752.16	200.77	33.72	PASS
6225.00†	6005.84	-898.50	1172.66	5972.84	6005.84	-1555.75	-5569.36	135.63	6773.98	203.49	33.38	PASS
6325.00†	6101.27	-916.68	1196.38	6068.27	6101.27	-1555.75	-5569.36	135.81	6795.85	206.21	33.04	PASS
6337.66	6113.36	-918.98	1199.39	6080.36	6113.36	-1555.75	-5569.36	135.83	6798.63	206.55	33.00	PASS
6425.00†	6197.68	-935.35	1214.89	6164.68	6197.68	-1555.75	-5569.36	115.56	6812.56	208.98	32.68	PASS
6525.00†	6295.51	-955.09	1219.69	6262.51	6295.51	-1555.75	-5569.36	79.04	6815.57	211.95	32.24	PASS
6625.00†	6392.89	-975.53	1210.57	6359.89	6392.89	-1555.75	-5569.36	48.30	6804.71	214.95	31.73	PASS
6725.00†	6487.92	-996.27	1187.72	6454.92	6487.92	-1555.75	-5569.36	32.09	6780.20	217.88	31.19	PASS
6825.00†	6578.76	-1016.92	1151.57	6545.76	6578.76	-1555.75	-5569.36	23.62	6742.49	220.55	30.64	PASS
6925.00†	6663.63	-1037.05	1102.83	6630.63	6663.63	-1555.75	-5569.36	18.71	6692.32	222.92	30.09	PASS
7025.00†	6740.88	-1056.30	1042.46	6707.88	6740.88	-1555.75	-5569.36	15.61	6630.65	224.99	29.54	PASS
7125.00†	6809.01	-1074.27	971.61	6776.01	6809.01	-1555.75	-5569.36	13.50	6558.67	226.73	28.99	PASS
7225.00†	6866.70	-1090.62	891.68	6833.70	6866.70	-1555.75	-5569.36	11.96	6477.76	228.16	28.46	PASS
7325.00†	6912.82	-1105.03	804.22	6879.82	6912.82	-1555.75	-5569.36	10.71	6389.50	229.25	27.93	PASS
7425.00†	6946.47	-1117.23	710.93	6913.47	6946.47	-1555.75	-5569.36	9.38	6295.58	230.03	27.43	PASS
7525.00†	6966.99	-1126.96	613.63	6933.99	6966.99	-1555.75	-5569.36	6.65	6197.84	230.48	26.95	PASS
7625.00†	6974.00	-1134.06	514.21	6941.00	6974.00	-1555.75	-5569.36	-81.57	6098.17	230.64	26.50	PASS
7626.30	6974.00	-1134.13	512.92	6941.00	6974.00	-1555.75	-5569.36	-90.00	6096.87	230.64	26.49	PASS
7725.00†	6974.00	-1139.74	414.37	6941.00	6974.00	-1555.75	-5569.36	-90.00	5998.17	230.64	26.07	PASS
7825.00†	6974.00	-1145.42	314.54	6941.00	6974.00	-1555.75	-5569.36	-90.00	5898.18	230.64	25.63	PASS
7925.00†	6974.00	-1151.10	214.70	6941.00	6974.00	-1555.75	-5569.36	-90.00	5798.19	230.65	25.20	PASS
8025.00†	6974.00	-1156.78	114.86	6941.00	6974.00	-1555.75	-5569.36	-90.00	5698.20	230.66	24.76	PASS
8125.00†	6974.00	-1162.47	15.02	6941.00	6974.00	-1555.75	-5569.36	-90.00	5598.21	230.66	24.32	PASS
8225.00†	6974.00	-1168.15	-84.82	6941.00	6974.00	-1555.75	-5569.36	-90.00	5498.22	230.67	23.89	PASS
8325.00†	6974.00	-1173.83	-184.66	6941.00	6974.00	-1555.75	-5569.36	-90.00	5398.23	230.69	23.45	PASS
8425.00†	6974.00	-1179.51	-284.49	6941.00	6974.00	-1555.75	-5569.36	-90.00	5298.24	230.70	23.02	PASS
8525.00†	6974.00	-1185.20	-384.33	6941.00	6974.00	-1555.75	-5569.36	-90.00	5198.25	230.72	22.58	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



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GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: TIGGES #30-34 AWB Offset Wellpath: TIGGES #30-34 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#05 EX TIGGES #30-34 (860'FSL & 2380'FWL SEC.30, 7244'MD) Well: TIGGES #30-34 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8625.00†	6974.00	-1190.88	-484.17	6941.00	6974.00	-1555.75	-5569.36	-90.00	5098.26	230.73	22.15	PASS
8725.00†	6974.00	-1196.56	-584.01	6941.00	6974.00	-1555.75	-5569.36	-90.00	4998.27	230.75	21.71	PASS
8825.00†	6974.00	-1202.24	-683.85	6941.00	6974.00	-1555.75	-5569.36	-90.00	4898.28	230.77	21.27	PASS
8925.00†	6974.00	-1207.92	-783.69	6941.00	6974.00	-1555.75	-5569.36	-90.00	4798.29	230.79	20.84	PASS
9025.00†	6974.00	-1213.61	-883.52	6941.00	6974.00	-1555.75	-5569.36	-90.00	4698.31	230.82	20.40	PASS
9125.00†	6974.00	-1219.29	-983.36	6941.00	6974.00	-1555.75	-5569.36	-90.00	4598.32	230.85	19.96	PASS
9225.00†	6974.00	-1224.97	-1083.20	6941.00	6974.00	-1555.75	-5569.36	-90.00	4498.33	230.87	19.53	PASS
9325.00†	6974.00	-1230.65	-1183.04	6941.00	6974.00	-1555.75	-5569.36	-90.00	4398.35	230.91	19.09	PASS
9425.00†	6974.00	-1236.33	-1282.88	6941.00	6974.00	-1555.75	-5569.36	-90.00	4298.36	230.94	18.65	PASS
9525.00†	6974.00	-1242.02	-1382.72	6941.00	6974.00	-1555.75	-5569.36	-90.00	4198.38	230.97	18.22	PASS
9625.00†	6974.00	-1247.70	-1482.56	6941.00	6974.00	-1555.75	-5569.36	-90.00	4098.39	231.01	17.78	PASS
9725.00†	6974.00	-1253.38	-1582.39	6941.00	6974.00	-1555.75	-5569.36	-90.00	3998.41	231.05	17.34	PASS
9825.00†	6974.00	-1259.06	-1682.23	6941.00	6974.00	-1555.75	-5569.36	-90.00	3898.43	231.10	16.91	PASS
9925.00†	6974.00	-1264.75	-1782.07	6941.00	6974.00	-1555.75	-5569.36	-90.00	3798.45	231.14	16.47	PASS
10025.00†	6974.00	-1270.43	-1881.91	6941.00	6974.00	-1555.75	-5569.36	-90.00	3698.47	231.19	16.03	PASS
10125.00†	6974.00	-1276.11	-1981.75	6941.00	6974.00	-1555.75	-5569.36	-90.00	3598.49	231.24	15.60	PASS
10225.00†	6974.00	-1281.79	-2081.59	6941.00	6974.00	-1555.75	-5569.36	-90.00	3498.51	231.30	15.16	PASS
10325.00†	6974.00	-1287.47	-2181.42	6941.00	6974.00	-1555.75	-5569.36	-90.00	3398.54	231.36	14.72	PASS
10425.00†	6974.00	-1293.16	-2281.26	6941.00	6974.00	-1555.75	-5569.36	-90.00	3298.56	231.42	14.28	PASS
10525.00†	6974.00	-1298.84	-2381.10	6941.00	6974.00	-1555.75	-5569.36	-90.00	3198.59	231.49	13.85	PASS
10625.00†	6974.00	-1304.52	-2480.94	6941.00	6974.00	-1555.75	-5569.36	-90.00	3098.62	231.57	13.41	PASS
10725.00†	6974.00	-1310.20	-2580.78	6941.00	6974.00	-1555.75	-5569.36	-90.00	2998.65	231.64	12.97	PASS
10825.00†	6974.00	-1315.88	-2680.62	6941.00	6974.00	-1555.75	-5569.36	-90.00	2898.68	231.73	12.54	PASS
10925.00†	6974.00	-1321.57	-2780.46	6941.00	6974.00	-1555.75	-5569.36	-90.00	2798.72	231.82	12.10	PASS
11025.00†	6974.00	-1327.25	-2880.29	6941.00	6974.00	-1555.75	-5569.36	-90.00	2698.75	231.92	11.66	PASS
11125.00†	6974.00	-1332.93	-2980.13	6941.00	6974.00	-1555.75	-5569.36	-90.00	2598.79	232.03	11.22	PASS
11225.00†	6974.00	-1338.61	-3079.97	6941.00	6974.00	-1555.75	-5569.36	-90.00	2498.84	232.14	10.79	PASS
11325.00†	6974.00	-1344.30	-3179.81	6941.00	6974.00	-1555.75	-5569.36	-90.00	2398.88	232.27	10.35	PASS
11425.00†	6974.00	-1349.98	-3279.65	6941.00	6974.00	-1555.75	-5569.36	-90.00	2298.94	232.41	9.91	PASS
11525.00†	6974.00	-1355.66	-3379.49	6941.00	6974.00	-1555.75	-5569.36	-90.00	2198.99	232.56	9.48	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: TIGGES #30-34 AWB Offset Wellpath: TIGGES #30-34 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#05 EX TIGGES #30-34 (860'FSL & 2380'FWL SEC.30, 7244'MD) Well: TIGGES #30-34 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11625.00†	6974.00	-1361.34	-3479.32	6941.00	6974.00	-1555.75	-5569.36	-90.00	2099.05	232.73	9.04	PASS
11725.00†	6974.00	-1367.02	-3579.16	6941.00	6974.00	-1555.75	-5569.36	-90.00	1999.12	232.92	8.60	PASS
11825.00†	6974.00	-1372.71	-3679.00	6941.00	6974.00	-1555.75	-5569.36	-90.00	1899.20	233.13	8.16	PASS
11925.00†	6974.00	-1378.39	-3778.84	6941.00	6974.00	-1555.75	-5569.36	-90.00	1799.28	233.37	7.73	PASS
12025.00†	6974.00	-1384.07	-3878.68	6941.00	6974.00	-1555.75	-5569.36	-90.00	1699.37	233.65	7.29	PASS
12125.00†	6974.00	-1389.75	-3978.52	6941.00	6974.00	-1555.75	-5569.36	-90.00	1599.48	233.97	6.85	PASS
12225.00†	6974.00	-1395.44	-4078.35	6941.00	6974.00	-1555.75	-5569.36	-90.00	1499.59	234.34	6.41	PASS
12325.00†	6974.00	-1401.12	-4178.19	6941.00	6974.00	-1555.75	-5569.36	-90.00	1399.73	234.78	5.97	PASS
12425.00†	6974.00	-1406.80	-4278.03	6941.00	6974.00	-1555.75	-5569.36	-90.00	1299.89	235.31	5.53	PASS
12525.00†	6974.00	-1412.48	-4377.87	6941.00	6974.00	-1555.75	-5569.36	-90.00	1200.07	235.96	5.10	PASS
12625.00†	6974.00	-1418.16	-4477.71	6941.00	6974.00	-1555.75	-5569.36	-90.00	1100.28	236.76	4.66	PASS
12725.00†	6974.00	-1423.85	-4577.55	6941.00	6974.00	-1555.75	-5569.36	-90.00	1000.54	237.77	4.22	PASS
12825.00†	6974.00	-1429.53	-4677.39	6941.00	6974.00	-1555.75	-5569.36	-90.00	900.86	239.09	3.77	PASS
12925.00†	6974.00	-1435.21	-4777.22	6941.00	6974.00	-1555.75	-5569.36	-90.00	801.25	240.85	3.33	PASS
13025.00†	6974.00	-1440.89	-4877.06	6941.00	6974.00	-1555.75	-5569.36	-90.00	701.76	243.28	2.89	PASS
13125.00†	6974.00	-1446.57	-4976.90	6941.00	6974.00	-1555.75	-5569.36	-90.00	602.43	246.78	2.44	PASS
13225.00†	6974.00	-1452.26	-5076.74	6941.00	6974.00	-1555.75	-5569.36	-90.00	503.37	252.08	2.00	PASS
13325.00†	6974.00	-1457.94	-5176.58	6941.00	6974.00	-1555.75	-5569.36	-90.00	404.77	260.67	1.55	PASS
13425.00†	6974.00	-1463.62	-5276.42	6941.00	6974.00	-1555.75	-5569.36	-90.00	307.08	275.92	1.11	PASS
13525.00†	6974.00	-1469.30	-5376.25	6941.00	6974.00	-1555.75	-5569.36	-90.00	211.57	306.83	0.69	FAIL
13625.00†	6974.00	-1474.99	-5476.09	6941.00	6974.00	-1555.75	-5569.36	-90.00	123.37	382.42	0.32	FAIL
13722.63†	6974.00	-1480.53	-5573.57	6940.59	6973.59	-1555.75	-5569.36	-89.69	75.33	500.88	0.15	FAIL
13725.00†	6974.00	-1480.67	-5575.93	6941.00	6974.00	-1555.75	-5569.36	-90.00	75.37	500.70	0.15	FAIL
13825.00†	6974.00	-1486.35	-5675.77	6941.00	6974.00	-1555.75	-5569.36	-90.00	127.04	375.05	0.34	FAIL
13925.00†	6974.00	-1492.03	-5775.61	6941.00	6974.00	-1555.75	-5569.36	-90.00	215.87	302.62	0.71	FAIL
14025.00†	6974.00	-1497.71	-5875.45	6941.00	6974.00	-1555.75	-5569.36	-90.00	311.54	273.00	1.14	PASS
14125.00†	6974.00	-1503.40	-5975.29	6941.00	6974.00	-1555.75	-5569.36	-90.00	409.29	258.48	1.58	PASS
14225.00†	6974.00	-1509.08	-6075.12	6941.00	6974.00	-1555.75	-5569.36	-90.00	507.92	250.40	2.03	PASS
14325.00†	6974.00	-1514.76	-6174.96	6941.00	6974.00	-1555.75	-5569.36	-90.00	606.99	245.51	2.48	PASS
14425.00†	6974.00	-1520.44	-6274.80	6941.00	6974.00	-1555.75	-5569.36	-90.00	706.33	242.36	2.92	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: TIGGES #30-34 AWB Offset Wellpath: TIGGES #30-34 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#05 EX TIGGES #30-34 (860'FSL & 2380'FWL SEC.30, 7244'MD) Well: TIGGES #30-34 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14525.00†	6974.00	-1526.12	-6374.64	6941.00	6974.00	-1555.75	-5569.36	-90.00	805.83	240.24	3.36	PASS
14625.00†	6974.00	-1531.81	-6474.48	6941.00	6974.00	-1555.75	-5569.36	-90.00	905.44	238.76	3.80	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: TIGGES #30-34 AWB Offset Wellpath: TIGGES #30-34 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: TIGGES #30-34 AWB Offset Wellpath: TIGGES #30-34 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	0.00	392.00	392.00	8.00	400.00	-948.00	-3395.19	-948.00	-3395.19
8.625in Casing Surface	0.00	392.00	392.00	8.00	400.00	-948.00	-3395.19	-948.00	-3395.19
7.875in Open Hole	392.00	7217.00	6825.00	400.00	7225.00	-948.00	-3395.19	-948.00	-3395.19
4.5in Casing Production	0.00	7217.00	7217.00	8.00	7225.00	-948.00	-3395.19	-948.00	-3395.19

WELLPATH COMPOSITION - Offset Wellbore: TIGGES #30-34 AWB Offset Wellpath: TIGGES #30-34 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7244.00	Drift Indicator - Inclination Only (Actual Survey)	DRIFT INDICATOR TO TD <7244' FROM CO WEBSITE>	TIGGES #30-34 AWB



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

OFFSET WELLPATH REFERENCE - Offset Wellbore: TIGGES #30-34 AWB Offset Wellpath: TIGGES #30-34 AWP	
MD Reference: Rig on SLOT#05 EX TIGGES #30-34 (860'FSL & 2380'FWL SEC.30, 7244'MD) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: LAFARGE WEST #30-35 AWB Offset Wellpath: LAFARGE WEST #30-35 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#03 EX:LAFARGE WEST #30-35 (1118'FSL & 1186'FWL SEC.30,7251'MD) Well: LAFARGE WEST #30-35 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	11.00	25.00	-1368.21	-6704.78	-101.53	6842.95	50.38	138.34	PASS
125.00†	125.00	0.00	0.00	111.00	125.00	-1368.21	-6704.78	-101.53	6842.95	52.68	132.19	PASS
225.00†	225.00	0.00	0.00	211.00	225.00	-1368.21	-6704.78	-101.53	6842.95	54.99	126.55	PASS
325.00†	325.00	0.00	0.00	311.00	325.00	-1368.21	-6704.78	-101.53	6842.95	57.30	121.36	PASS
425.00†	425.00	0.00	0.00	411.00	425.00	-1368.21	-6704.78	-101.53	6842.95	59.44	116.57	PASS
525.00†	525.00	0.00	0.00	511.00	525.00	-1368.21	-6704.78	-101.53	6842.95	61.76	112.14	PASS
625.00†	625.00	0.00	0.00	611.00	625.00	-1368.21	-6704.78	-101.53	6842.95	64.09	108.03	PASS
725.00†	725.00	0.00	0.00	711.00	725.00	-1368.21	-6704.78	-101.53	6842.95	66.42	104.20	PASS
825.00†	825.00	0.00	0.00	811.00	825.00	-1368.21	-6704.78	-101.53	6842.95	68.75	100.63	PASS
850.00	850.00	0.00	0.00	836.00	850.00	-1368.21	-6704.78	-101.53	6842.95	69.33	99.77	PASS
925.00†	924.99	-0.60	0.78	910.99	924.99	-1368.21	-6704.78	131.00	6843.60	71.08	97.29	PASS
1025.00†	1024.89	-3.25	4.24	1010.89	1024.89	-1368.21	-6704.78	130.99	6846.46	73.44	94.18	PASS
1125.00†	1124.58	-8.02	10.47	1110.58	1124.58	-1368.21	-6704.78	130.96	6851.61	75.80	91.28	PASS
1225.00†	1223.93	-14.91	19.45	1209.93	1223.93	-1368.21	-6704.78	130.92	6859.06	78.17	88.59	PASS
1325.00†	1322.83	-23.90	31.19	1308.83	1322.83	-1368.21	-6704.78	130.86	6868.80	80.53	86.09	PASS
1425.00†	1421.15	-34.98	45.65	1407.15	1421.15	-1368.21	-6704.78	130.79	6880.83	82.90	83.75	PASS
1525.00†	1518.77	-48.14	62.83	1504.77	1518.77	-1368.21	-6704.78	130.71	6895.15	85.26	81.58	PASS
1625.00†	1615.58	-63.37	82.71	1601.58	1615.58	-1368.21	-6704.78	130.61	6911.76	87.63	79.54	PASS
1719.36	1706.08	-79.61	103.91	1692.08	1706.08	-1368.21	-6704.78	130.50	6929.55	89.61	77.80	PASS
1725.00†	1711.46	-80.64	105.24	1697.46	1711.46	-1368.21	-6704.78	130.51	6930.67	89.73	77.70	PASS
1825.00†	1806.89	-98.81	128.96	1792.89	1806.89	-1368.21	-6704.78	130.69	6950.64	91.96	76.03	PASS
1925.00†	1902.32	-116.99	152.69	1888.32	1902.32	-1368.21	-6704.78	130.87	6970.68	94.20	74.42	PASS
2025.00†	1997.75	-135.16	176.41	1983.75	1997.75	-1368.21	-6704.78	131.05	6990.78	96.46	72.87	PASS
2125.00†	2093.18	-153.34	200.13	2079.18	2093.18	-1368.21	-6704.78	131.23	7010.96	98.75	71.39	PASS
2225.00†	2188.61	-171.51	223.85	2174.61	2188.61	-1368.21	-6704.78	131.41	7031.21	101.05	69.95	PASS
2325.00†	2284.04	-189.69	247.57	2270.04	2284.04	-1368.21	-6704.78	131.59	7051.52	103.37	68.57	PASS
2425.00†	2379.48	-207.86	271.29	2365.48	2379.48	-1368.21	-6704.78	131.76	7071.91	105.71	67.24	PASS
2525.00†	2474.91	-226.04	295.01	2460.91	2474.91	-1368.21	-6704.78	131.94	7092.36	108.06	65.96	PASS
2625.00†	2570.34	-244.21	318.73	2556.34	2570.34	-1368.21	-6704.78	132.11	7112.87	110.44	64.72	PASS
2725.00†	2665.77	-262.39	342.45	2651.77	2665.77	-1368.21	-6704.78	132.29	7133.46	112.83	63.52	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: LAFARGE WEST #30-35 AWB Offset Wellpath: LAFARGE WEST #30-35 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#03 EX:LAFARGE WEST #30-35 (1118'FSL & 1186'FWL SEC.30,7251'MD) Well: LAFARGE WEST #30-35 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2825.00†	2761.20	-280.56	366.17	2747.20	2761.20	-1368.21	-6704.78	132.46	7154.11	115.24	62.37	PASS
2925.00†	2856.63	-298.74	389.89	2842.63	2856.63	-1368.21	-6704.78	132.63	7174.82	117.66	61.26	PASS
3025.00†	2952.06	-316.91	413.61	2938.06	2952.06	-1368.21	-6704.78	132.80	7195.60	120.10	60.18	PASS
3125.00†	3047.49	-335.08	437.33	3033.49	3047.49	-1368.21	-6704.78	132.97	7216.44	122.55	59.14	PASS
3225.00†	3142.92	-353.26	461.05	3128.92	3142.92	-1368.21	-6704.78	133.14	7237.35	125.02	58.14	PASS
3325.00†	3238.35	-371.43	484.77	3224.35	3238.35	-1368.21	-6704.78	133.31	7258.31	127.50	57.16	PASS
3425.00†	3333.78	-389.61	508.49	3319.78	3333.78	-1368.21	-6704.78	133.48	7279.34	130.00	56.22	PASS
3525.00†	3429.21	-407.78	532.21	3415.21	3429.21	-1368.21	-6704.78	133.64	7300.44	132.51	55.32	PASS
3625.00†	3524.64	-425.96	555.93	3510.64	3524.64	-1368.21	-6704.78	133.81	7321.59	135.03	54.44	PASS
3725.00†	3620.07	-444.13	579.65	3606.07	3620.07	-1368.21	-6704.78	133.97	7342.81	137.57	53.58	PASS
3825.00†	3715.51	-462.31	603.37	3701.51	3715.51	-1368.21	-6704.78	134.14	7364.08	140.11	52.76	PASS
3925.00†	3810.94	-480.48	627.09	3796.94	3810.94	-1368.21	-6704.78	134.30	7385.41	142.67	51.96	PASS
4025.00†	3906.37	-498.66	650.81	3892.37	3906.37	-1368.21	-6704.78	134.46	7406.81	145.24	51.18	PASS
4125.00†	4001.80	-516.83	674.53	3987.80	4001.80	-1368.21	-6704.78	134.62	7428.26	147.82	50.43	PASS
4225.00†	4097.23	-535.01	698.25	4083.23	4097.23	-1368.21	-6704.78	134.78	7449.77	150.40	49.71	PASS
4325.00†	4192.66	-553.18	721.97	4178.66	4192.66	-1368.21	-6704.78	134.94	7471.34	153.00	49.00	PASS
4425.00†	4288.09	-571.36	745.69	4274.09	4288.09	-1368.21	-6704.78	135.10	7492.96	155.61	48.32	PASS
4525.00†	4383.52	-589.53	769.41	4369.52	4383.52	-1368.21	-6704.78	135.25	7514.64	158.22	47.65	PASS
4625.00†	4478.95	-607.71	793.14	4464.95	4478.95	-1368.21	-6704.78	135.41	7536.38	160.85	47.01	PASS
4725.00†	4574.38	-625.88	816.86	4560.38	4574.38	-1368.21	-6704.78	135.57	7558.17	163.48	46.38	PASS
4825.00†	4669.81	-644.05	840.58	4655.81	4669.81	-1368.21	-6704.78	135.72	7580.02	166.12	45.78	PASS
4925.00†	4765.24	-662.23	864.30	4751.24	4765.24	-1368.21	-6704.78	135.87	7601.92	168.76	45.19	PASS
5025.00†	4860.67	-680.40	888.02	4846.67	4860.67	-1368.21	-6704.78	136.03	7623.88	171.41	44.61	PASS
5125.00†	4956.11	-698.58	911.74	4942.11	4956.11	-1368.21	-6704.78	136.18	7645.89	174.07	44.06	PASS
5225.00†	5051.54	-716.75	935.46	5037.54	5051.54	-1368.21	-6704.78	136.33	7667.96	176.74	43.52	PASS
5325.00†	5146.97	-734.93	959.18	5132.97	5146.97	-1368.21	-6704.78	136.48	7690.07	179.41	42.99	PASS
5425.00†	5242.40	-753.10	982.90	5228.40	5242.40	-1368.21	-6704.78	136.63	7712.24	182.09	42.48	PASS
5525.00†	5337.83	-771.28	1006.62	5323.83	5337.83	-1368.21	-6704.78	136.78	7734.46	184.77	41.98	PASS
5625.00†	5433.26	-789.45	1030.34	5419.26	5433.26	-1368.21	-6704.78	136.93	7756.74	187.46	41.50	PASS
5725.00†	5528.69	-807.63	1054.06	5514.69	5528.69	-1368.21	-6704.78	137.07	7779.06	190.15	41.02	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: LAFARGE WEST #30-35 AWB Offset Wellpath: LAFARGE WEST #30-35 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#03 EX:LAFARGE WEST #30-35 (1118'FSL & 1186'FWL SEC.30,7251'MD) Well: LAFARGE WEST #30-35 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5825.00†	5624.12	-825.80	1077.78	5610.12	5624.12	-1368.21	-6704.78	137.22	7801.43	192.85	40.57	PASS
5925.00†	5719.55	-843.98	1101.50	5705.55	5719.55	-1368.21	-6704.78	137.37	7823.86	195.55	40.12	PASS
6025.00†	5814.98	-862.15	1125.22	5800.98	5814.98	-1368.21	-6704.78	137.51	7846.33	198.26	39.68	PASS
6125.00†	5910.41	-880.33	1148.94	5896.41	5910.41	-1368.21	-6704.78	137.66	7868.86	200.97	39.26	PASS
6225.00†	6005.84	-898.50	1172.66	5991.84	6005.84	-1368.21	-6704.78	137.80	7891.43	203.68	38.84	PASS
6325.00†	6101.27	-916.68	1196.38	6087.27	6101.27	-1368.21	-6704.78	137.94	7914.05	206.40	38.44	PASS
6337.66	6113.36	-918.98	1199.39	6099.36	6113.36	-1368.21	-6704.78	137.96	7916.92	206.74	38.39	PASS
6425.00†	6197.68	-935.35	1214.89	6183.68	6197.68	-1368.21	-6704.78	117.63	7931.49	209.17	38.02	PASS
6525.00†	6295.51	-955.09	1219.69	6281.51	6295.51	-1368.21	-6704.78	81.07	7935.23	212.16	37.50	PASS
6625.00†	6392.89	-975.53	1210.57	6378.89	6392.89	-1368.21	-6704.78	50.34	7925.08	215.18	36.92	PASS
6725.00†	6487.92	-996.27	1187.72	6473.92	6487.92	-1368.21	-6704.78	34.19	7901.25	218.13	36.31	PASS
6825.00†	6578.76	-1016.92	1151.57	6564.76	6578.76	-1368.21	-6704.78	25.82	7864.20	220.81	35.70	PASS
6925.00†	6663.63	-1037.05	1102.83	6649.63	6663.63	-1368.21	-6704.78	21.09	7814.63	223.18	35.10	PASS
7025.00†	6740.88	-1056.30	1042.46	6726.88	6740.88	-1368.21	-6704.78	18.26	7753.51	225.24	34.50	PASS
7125.00†	6809.01	-1074.27	971.61	6795.01	6809.01	-1368.21	-6704.78	16.56	7682.01	226.98	33.92	PASS
7225.00†	6866.70	-1090.62	891.68	6852.70	6866.70	-1368.21	-6704.78	15.69	7601.53	228.39	33.36	PASS
7325.00†	6912.82	-1105.03	804.22	6898.82	6912.82	-1368.21	-6704.78	15.58	7513.61	229.47	32.82	PASS
7425.00†	6946.47	-1117.23	710.93	6932.47	6946.47	-1368.21	-6704.78	16.58	7419.96	230.22	32.30	PASS
7525.00†	6966.99	-1126.96	613.63	6952.99	6966.99	-1368.21	-6704.78	20.79	7322.38	230.66	31.82	PASS
7625.00†	6974.00	-1134.06	514.21	6960.00	6974.00	-1368.21	-6704.78	85.90	7222.78	230.80	31.37	PASS
7626.30	6974.00	-1134.13	512.92	6960.00	6974.00	-1368.21	-6704.78	90.00	7221.49	230.80	31.36	PASS
7725.00†	6974.00	-1139.74	414.37	6960.00	6974.00	-1368.21	-6704.78	90.00	7122.82	230.78	30.93	PASS
7825.00†	6974.00	-1145.42	314.54	6960.00	6974.00	-1368.21	-6704.78	90.00	7022.85	230.77	30.50	PASS
7925.00†	6974.00	-1151.10	214.70	6960.00	6974.00	-1368.21	-6704.78	90.00	6922.88	230.76	30.07	PASS
8025.00†	6974.00	-1156.78	114.86	6960.00	6974.00	-1368.21	-6704.78	90.00	6822.91	230.74	29.64	PASS
8125.00†	6974.00	-1162.47	15.02	6960.00	6974.00	-1368.21	-6704.78	90.00	6722.95	230.73	29.20	PASS
8225.00†	6974.00	-1168.15	-84.82	6960.00	6974.00	-1368.21	-6704.78	90.00	6622.98	230.73	28.77	PASS
8325.00†	6974.00	-1173.83	-184.66	6960.00	6974.00	-1368.21	-6704.78	90.00	6523.02	230.72	28.34	PASS
8425.00†	6974.00	-1179.51	-284.49	6960.00	6974.00	-1368.21	-6704.78	90.00	6423.05	230.71	27.90	PASS
8525.00†	6974.00	-1185.20	-384.33	6960.00	6974.00	-1368.21	-6704.78	90.00	6323.09	230.71	27.47	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: LAFARGE WEST #30-35 AWB Offset Wellpath: LAFARGE WEST #30-35 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#03 EX:LAFARGE WEST #30-35 (1118'FSL & 1186'FWL SEC.30,7251'MD) Well: LAFARGE WEST #30-35 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8625.00†	6974.00	-1190.88	-484.17	6960.00	6974.00	-1368.21	-6704.78	90.00	6223.13	230.70	27.04	PASS
8725.00†	6974.00	-1196.56	-584.01	6960.00	6974.00	-1368.21	-6704.78	90.00	6123.17	230.70	26.60	PASS
8825.00†	6974.00	-1202.24	-683.85	6960.00	6974.00	-1368.21	-6704.78	90.00	6023.21	230.70	26.17	PASS
8925.00†	6974.00	-1207.92	-783.69	6960.00	6974.00	-1368.21	-6704.78	90.00	5923.26	230.70	25.73	PASS
9025.00†	6974.00	-1213.61	-883.52	6960.00	6974.00	-1368.21	-6704.78	90.00	5823.30	230.71	25.30	PASS
9125.00†	6974.00	-1219.29	-983.36	6960.00	6974.00	-1368.21	-6704.78	90.00	5723.35	230.71	24.86	PASS
9225.00†	6974.00	-1224.97	-1083.20	6960.00	6974.00	-1368.21	-6704.78	90.00	5623.40	230.72	24.43	PASS
9325.00†	6974.00	-1230.65	-1183.04	6960.00	6974.00	-1368.21	-6704.78	90.00	5523.45	230.73	23.99	PASS
9425.00†	6974.00	-1236.33	-1282.88	6960.00	6974.00	-1368.21	-6704.78	90.00	5423.50	230.74	23.56	PASS
9525.00†	6974.00	-1242.02	-1382.72	6960.00	6974.00	-1368.21	-6704.78	90.00	5323.55	230.75	23.12	PASS
9625.00†	6974.00	-1247.70	-1482.56	6960.00	6974.00	-1368.21	-6704.78	90.00	5223.61	230.76	22.69	PASS
9725.00†	6974.00	-1253.38	-1582.39	6960.00	6974.00	-1368.21	-6704.78	90.00	5123.67	230.78	22.25	PASS
9825.00†	6974.00	-1259.06	-1682.23	6960.00	6974.00	-1368.21	-6704.78	90.00	5023.73	230.80	21.82	PASS
9925.00†	6974.00	-1264.75	-1782.07	6960.00	6974.00	-1368.21	-6704.78	90.00	4923.79	230.82	21.38	PASS
10025.00†	6974.00	-1270.43	-1881.91	6960.00	6974.00	-1368.21	-6704.78	90.00	4823.86	230.85	20.94	PASS
10125.00†	6974.00	-1276.11	-1981.75	6960.00	6974.00	-1368.21	-6704.78	90.00	4723.93	230.87	20.51	PASS
10225.00†	6974.00	-1281.79	-2081.59	6960.00	6974.00	-1368.21	-6704.78	90.00	4624.00	230.91	20.07	PASS
10325.00†	6974.00	-1287.47	-2181.42	6960.00	6974.00	-1368.21	-6704.78	90.00	4524.07	230.94	19.63	PASS
10425.00†	6974.00	-1293.16	-2281.26	6960.00	6974.00	-1368.21	-6704.78	90.00	4424.15	230.98	19.20	PASS
10525.00†	6974.00	-1298.84	-2381.10	6960.00	6974.00	-1368.21	-6704.78	90.00	4324.23	231.02	18.76	PASS
10625.00†	6974.00	-1304.52	-2480.94	6960.00	6974.00	-1368.21	-6704.78	90.00	4224.32	231.07	18.32	PASS
10725.00†	6974.00	-1310.20	-2580.78	6960.00	6974.00	-1368.21	-6704.78	90.00	4124.40	231.12	17.88	PASS
10825.00†	6974.00	-1315.88	-2680.62	6960.00	6974.00	-1368.21	-6704.78	90.00	4024.50	231.18	17.45	PASS
10925.00†	6974.00	-1321.57	-2780.46	6960.00	6974.00	-1368.21	-6704.78	90.00	3924.60	231.24	17.01	PASS
11025.00†	6974.00	-1327.25	-2880.29	6960.00	6974.00	-1368.21	-6704.78	90.00	3824.70	231.31	16.57	PASS
11125.00†	6974.00	-1332.93	-2980.13	6960.00	6974.00	-1368.21	-6704.78	90.00	3724.81	231.38	16.13	PASS
11225.00†	6974.00	-1338.61	-3079.97	6960.00	6974.00	-1368.21	-6704.78	90.00	3624.93	231.47	15.69	PASS
11325.00†	6974.00	-1344.30	-3179.81	6960.00	6974.00	-1368.21	-6704.78	90.00	3525.05	231.56	15.26	PASS
11425.00†	6974.00	-1349.98	-3279.65	6960.00	6974.00	-1368.21	-6704.78	90.00	3425.18	231.67	14.82	PASS
11525.00†	6974.00	-1355.66	-3379.49	6960.00	6974.00	-1368.21	-6704.78	90.00	3325.31	231.78	14.38	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: LAFARGE WEST #30-35 AWB Offset Wellpath: LAFARGE WEST #30-35 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#03 EX:LAFARGE WEST #30-35 (1118'FSL & 1186'FWL SEC.30,7251'MD) Well: LAFARGE WEST #30-35 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11625.00†	6974.00	-1361.34	-3479.32	6960.00	6974.00	-1368.21	-6704.78	90.00	3225.46	231.91	13.94	PASS
11725.00†	6974.00	-1367.02	-3579.16	6960.00	6974.00	-1368.21	-6704.78	90.00	3125.61	232.05	13.50	PASS
11825.00†	6974.00	-1372.71	-3679.00	6960.00	6974.00	-1368.21	-6704.78	90.00	3025.78	232.21	13.06	PASS
11925.00†	6974.00	-1378.39	-3778.84	6960.00	6974.00	-1368.21	-6704.78	90.00	2925.95	232.39	12.62	PASS
12025.00†	6974.00	-1384.07	-3878.68	6960.00	6974.00	-1368.21	-6704.78	90.00	2826.14	232.60	12.18	PASS
12125.00†	6974.00	-1389.75	-3978.52	6960.00	6974.00	-1368.21	-6704.78	90.00	2726.34	232.82	11.73	PASS
12225.00†	6974.00	-1395.44	-4078.35	6960.00	6974.00	-1368.21	-6704.78	90.00	2626.56	233.08	11.29	PASS
12325.00†	6974.00	-1401.12	-4178.19	6960.00	6974.00	-1368.21	-6704.78	90.00	2526.80	233.38	10.85	PASS
12425.00†	6974.00	-1406.80	-4278.03	6960.00	6974.00	-1368.21	-6704.78	90.00	2427.05	233.71	10.41	PASS
12525.00†	6974.00	-1412.48	-4377.87	6960.00	6974.00	-1368.21	-6704.78	90.00	2327.33	234.09	9.96	PASS
12625.00†	6974.00	-1418.16	-4477.71	6960.00	6974.00	-1368.21	-6704.78	90.00	2227.63	234.53	9.52	PASS
12725.00†	6974.00	-1423.85	-4577.55	6960.00	6974.00	-1368.21	-6704.78	90.00	2127.96	235.04	9.07	PASS
12825.00†	6974.00	-1429.53	-4677.39	6960.00	6974.00	-1368.21	-6704.78	90.00	2028.32	235.63	8.63	PASS
12925.00†	6974.00	-1435.21	-4777.22	6960.00	6974.00	-1368.21	-6704.78	90.00	1928.72	236.32	8.18	PASS
13025.00†	6974.00	-1440.89	-4877.06	6960.00	6974.00	-1368.21	-6704.78	90.00	1829.16	237.13	7.73	PASS
13125.00†	6974.00	-1446.57	-4976.90	6960.00	6974.00	-1368.21	-6704.78	90.00	1729.65	238.09	7.28	PASS
13225.00†	6974.00	-1452.26	-5076.74	6960.00	6974.00	-1368.21	-6704.78	90.00	1630.20	239.23	6.83	PASS
13325.00†	6974.00	-1457.94	-5176.58	6960.00	6974.00	-1368.21	-6704.78	90.00	1530.83	240.60	6.37	PASS
13425.00†	6974.00	-1463.62	-5276.42	6960.00	6974.00	-1368.21	-6704.78	90.00	1431.54	242.25	5.92	PASS
13525.00†	6974.00	-1469.30	-5376.25	6960.00	6974.00	-1368.21	-6704.78	90.00	1332.36	244.26	5.46	PASS
13625.00†	6974.00	-1474.99	-5476.09	6960.00	6974.00	-1368.21	-6704.78	90.00	1233.31	246.73	5.01	PASS
13725.00†	6974.00	-1480.67	-5575.93	6960.00	6974.00	-1368.21	-6704.78	90.00	1134.43	249.80	4.55	PASS
13825.00†	6974.00	-1486.35	-5675.77	6960.00	6974.00	-1368.21	-6704.78	90.00	1035.77	253.66	4.09	PASS
13925.00†	6974.00	-1492.03	-5775.61	6960.00	6974.00	-1368.21	-6704.78	90.00	937.38	258.57	3.63	PASS
14025.00†	6974.00	-1497.71	-5875.45	6960.00	6974.00	-1368.21	-6704.78	90.00	839.38	264.93	3.17	PASS
14125.00†	6974.00	-1503.40	-5975.29	6960.00	6974.00	-1368.21	-6704.78	90.00	741.91	273.32	2.72	PASS
14225.00†	6974.00	-1509.08	-6075.12	6960.00	6974.00	-1368.21	-6704.78	90.00	645.22	284.63	2.27	PASS
14325.00†	6974.00	-1514.76	-6174.96	6960.00	6974.00	-1368.21	-6704.78	90.00	549.71	300.31	1.83	PASS
14425.00†	6974.00	-1520.44	-6274.80	6960.00	6974.00	-1368.21	-6704.78	90.00	456.13	322.81	1.41	PASS
14525.00†	6974.00	-1526.12	-6374.64	6960.00	6974.00	-1368.21	-6704.78	90.00	365.96	356.35	1.03	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: LAFARGE WEST #30-35 AWB Offset Wellpath: LAFARGE WEST #30-35 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#03 EX:LAFARGE WEST #30-35 (1118'FSL & 1186'FWL SEC.30,7251'MD) Well: LAFARGE WEST #30-35 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14625.00†	6974.00	-1531.81	-6474.48	6960.00	6974.00	-1368.21	-6704.78	90.00	282.49	407.80	0.69	FAIL
14725.00†	6974.00	-1537.49	-6574.32	6960.00	6974.00	-1368.21	-6704.78	90.00	213.72	482.39	0.44	FAIL
14825.00†	6974.00	-1543.17	-6674.15	6960.00	6974.00	-1368.21	-6704.78	90.00	177.62	548.46	0.32	FAIL
14845.83†	6974.00	-1544.36	-6694.95	6960.06	6974.06	-1368.21	-6704.78	90.02	176.42	552.38	0.32	FAIL
14848.07†	6974.00	-1544.48	-6697.19	6960.00	6974.00	-1368.21	-6704.78	90.00	176.44	552.51	0.32	FAIL
14925.00†	6974.00	-1548.85	-6773.99	6960.00	6974.00	-1368.21	-6704.78	90.00	193.45	525.81	0.37	FAIL
15025.00†	6974.00	-1554.54	-6873.83	6960.00	6974.00	-1368.21	-6704.78	90.00	251.59	453.91	0.55	FAIL
15125.00†	6974.00	-1560.22	-6973.67	6960.00	6974.00	-1368.21	-6704.78	90.00	330.41	395.96	0.83	FAIL
15225.00†	6974.00	-1565.90	-7073.51	6960.00	6974.00	-1368.21	-6704.78	90.00	418.39	357.21	1.17	PASS
15325.00†	6974.00	-1571.58	-7173.35	6960.00	6974.00	-1368.21	-6704.78	90.00	510.80	331.17	1.54	PASS
15425.00†	6974.00	-1577.26	-7273.18	6960.00	6974.00	-1368.21	-6704.78	90.00	605.64	313.02	1.94	PASS
15525.00†	6974.00	-1582.95	-7373.02	6960.00	6974.00	-1368.21	-6704.78	90.00	701.90	299.86	2.34	PASS
15625.00†	6974.00	-1588.63	-7472.86	6960.00	6974.00	-1368.21	-6704.78	90.00	799.09	290.01	2.76	PASS
15725.00†	6974.00	-1594.31	-7572.70	6960.00	6974.00	-1368.21	-6704.78	90.00	896.89	282.43	3.18	PASS
15825.00†	6974.00	-1599.99	-7672.54	6960.00	6974.00	-1368.21	-6704.78	90.00	995.13	276.47	3.60	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: LAFARGE WEST #30-35 AWB Offset Wellpath: LAFARGE WEST #30-35 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

HOLE & CASING SECTIONS - Offset Wellbore: LAFARGE WEST #30-35 AWB Offset Wellpath: LAFARGE WEST #30-35 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	0.00	405.00	405.00	-11.00	394.00	-833.50	-4087.34	-833.50	-4087.34
8.625in Casing Surface	0.00	405.00	405.00	-11.00	394.00	-833.50	-4087.34	-833.50	-4087.34
7.875in Open Hole	405.00	7239.00	6834.00	394.00	7228.00	-833.50	-4087.34	-833.50	-4087.34
4.5in Casing Production	0.00	7239.00	7239.00	-11.00	7228.00	-833.50	-4087.34	-833.50	-4087.34

WELLPATH COMPOSITION - Offset Wellbore: LAFARGE WEST #30-35 AWB Offset Wellpath: LAFARGE WEST #30-35 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7251.00	Drift Indicator - Inclination Only (Actual Survey)	DRIFT INDICATOR TO TD <7251' FROM CO WEBSITE>	LAFARGE WEST #30-35 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: LAFARGE WEST #30-35 AWB Offset Wellpath: LAFARGE WEST #30-35 AWP

MD Reference: Rig on SLOT#03 EX:LAFARGE WEST #30-35 (1118'FSL & 1186'FWL SEC.30,7251'MD) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 13N-30A-M PWB Offset Wellpath: GOETZEL 13N-30A-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#21 GOETZEL 13N-30A-M (2157'FSL & 2053'FWL, SEC.29) Well: GOETZEL 13N-30A-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	25.00	25.00	-20.04	-0.23	-179.34	20.04	1.72	31.52	PASS
125.00†	125.00	0.00	0.00	125.00	125.00	-20.04	-0.23	-179.34	20.04	2.05	20.51	PASS
225.00†	225.00	0.00	0.00	225.00	225.00	-20.04	-0.23	-179.34	20.04	2.62	12.68	PASS
325.00†	325.00	0.00	0.00	325.00	325.00	-20.04	-0.23	-179.34	20.04	3.22	9.03	PASS
425.00†	425.00	0.00	0.00	425.00	425.00	-20.04	-0.23	-179.34	20.04	3.83	6.98	PASS
525.00†	525.00	0.00	0.00	525.00	525.00	-20.04	-0.23	-179.34	20.04	4.45	5.68	PASS
625.00†	625.00	0.00	0.00	625.00	625.00	-20.04	-0.23	-179.34	20.04	5.08	4.79	PASS
725.00†	725.00	0.00	0.00	725.00	725.00	-20.04	-0.23	-179.34	20.04	5.70	4.13	PASS
825.00†	825.00	0.00	0.00	824.64	824.63	-20.69	0.49	178.65	20.70	6.35	3.75	PASS
850.00	850.00	0.00	0.00	849.50	849.48	-21.20	1.05	177.18	21.23	6.54	3.71	PASS
925.00†	924.99	-0.60	0.78	924.03	923.92	-23.59	3.68	45.32	23.20	7.17	3.65	PASS
1025.00†	1024.89	-3.25	4.24	1023.29	1022.88	-28.80	9.40	41.00	26.15	8.25	3.51	PASS
1125.00†	1124.58	-8.02	10.47	1122.44	1121.39	-36.31	17.65	38.06	29.36	9.39	3.42	PASS
1225.00†	1223.93	-14.91	19.45	1221.47	1219.35	-46.09	28.40	36.15	32.76	10.49	3.38	PASS
1325.00†	1322.83	-23.90	31.19	1320.38	1316.62	-58.13	41.62	35.01	36.32	11.54	3.38	PASS
1425.00†	1421.15	-34.98	45.65	1419.17	1413.10	-72.40	57.31	34.45	40.01	12.56	3.40	PASS
1525.00†	1518.77	-48.14	62.83	1517.84	1508.68	-88.88	75.42	34.32	43.82	13.59	3.43	PASS
1625.00†	1615.58	-63.37	82.71	1616.40	1603.25	-107.55	95.93	34.52	47.73	14.65	3.45	PASS
1719.36	1706.08	-79.61	103.91	1709.46	1691.63	-127.16	117.47	34.95	51.51	15.01	3.55	PASS
1725.00†	1711.46	-80.64	105.24	1715.10	1696.96	-128.39	118.83	34.99	51.72	15.03	3.56	PASS
1825.00†	1806.89	-98.81	128.96	1815.02	1791.46	-150.25	142.85	35.75	55.47	15.16	3.79	PASS
1925.00†	1902.32	-116.99	152.69	1914.95	1885.96	-172.11	166.87	36.41	59.22	15.41	3.98	PASS
2025.00†	1997.75	-135.16	176.41	2014.88	1980.46	-193.97	190.90	36.99	62.99	15.78	4.13	PASS
2125.00†	2093.18	-153.34	200.13	2114.81	2074.97	-215.83	214.92	37.50	66.76	16.28	4.24	PASS
2225.00†	2188.61	-171.51	223.85	2214.73	2169.47	-237.70	238.94	37.96	70.53	16.89	4.32	PASS
2325.00†	2284.04	-189.69	247.57	2314.66	2263.97	-259.56	262.96	38.37	74.31	17.59	4.36	PASS
2425.00†	2379.48	-207.86	271.29	2414.59	2358.47	-281.42	286.98	38.75	78.09	18.37	4.38	PASS
2525.00†	2474.91	-226.04	295.01	2514.51	2452.97	-303.28	311.01	39.09	81.88	19.23	4.38	PASS
2625.00†	2570.34	-244.21	318.73	2614.44	2547.47	-325.14	335.03	39.39	85.66	20.16	4.37	PASS
2725.00†	2665.77	-262.39	342.45	2714.37	2641.97	-347.00	359.05	39.68	89.45	21.14	4.34	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 13N-30A-M PWB Offset Wellpath: GOETZEL 13N-30A-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#21 GOETZEL 13N-30A-M (2157'FSL & 2053'FWL, SEC.29) Well: GOETZEL 13N-30A-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2825.00†	2761.20	-280.56	366.17	2814.30	2736.47	-368.86	383.07	39.94	93.24	22.17	4.31	PASS
2925.00†	2856.63	-298.74	389.89	2914.22	2830.98	-390.72	407.09	40.17	97.04	23.24	4.27	PASS
3025.00†	2952.06	-316.91	413.61	3014.15	2925.48	-412.59	431.12	40.40	100.83	24.35	4.23	PASS
3125.00†	3047.49	-335.08	437.33	3114.08	3019.98	-434.45	455.14	40.60	104.63	25.50	4.19	PASS
3225.00†	3142.92	-353.26	461.05	3214.00	3114.48	-456.31	479.16	40.79	108.42	26.67	4.15	PASS
3325.00†	3238.35	-371.43	484.77	3313.93	3208.98	-478.17	503.18	40.97	112.22	27.86	4.11	PASS
3425.00†	3333.78	-389.61	508.49	3413.86	3303.48	-500.03	527.21	41.14	116.02	29.08	4.06	PASS
3525.00†	3429.21	-407.78	532.21	3513.79	3397.98	-521.89	551.23	41.29	119.82	30.31	4.02	PASS
3625.00†	3524.64	-425.96	555.93	3613.71	3492.48	-543.75	575.25	41.44	123.62	31.57	3.98	PASS
3725.00†	3620.07	-444.13	579.65	3713.64	3586.99	-565.61	599.27	41.57	127.43	32.83	3.94	PASS
3825.00†	3715.51	-462.31	603.37	3813.57	3681.49	-587.47	623.29	41.70	131.23	34.11	3.91	PASS
3925.00†	3810.94	-480.48	627.09	3913.50	3775.99	-609.34	647.32	41.83	135.03	35.40	3.87	PASS
4025.00†	3906.37	-498.66	650.81	4013.42	3870.49	-631.20	671.34	41.94	138.84	36.70	3.84	PASS
4125.00†	4001.80	-516.83	674.53	4113.35	3964.99	-653.06	695.36	42.05	142.64	38.01	3.80	PASS
4225.00†	4097.23	-535.01	698.25	4213.28	4059.49	-674.92	719.38	42.15	146.45	39.33	3.77	PASS
4325.00†	4192.66	-553.18	721.97	4313.20	4153.99	-696.78	743.40	42.25	150.25	40.66	3.74	PASS
4425.00†	4288.09	-571.36	745.69	4413.13	4248.49	-718.64	767.43	42.35	154.06	41.99	3.71	PASS
4525.00†	4383.52	-589.53	769.41	4513.06	4343.00	-740.50	791.45	42.43	157.86	43.33	3.69	PASS
4625.00†	4478.95	-607.71	793.14	4612.99	4437.50	-762.36	815.47	42.52	161.67	44.67	3.66	PASS
4725.00†	4574.38	-625.88	816.86	4712.91	4532.00	-784.23	839.49	42.60	165.48	46.02	3.64	PASS
4825.00†	4669.81	-644.05	840.58	4812.84	4626.50	-806.09	863.51	42.68	169.28	47.38	3.61	PASS
4925.00†	4765.24	-662.23	864.30	4912.77	4721.00	-827.95	887.54	42.75	173.09	48.74	3.59	PASS
5025.00†	4860.67	-680.40	888.02	5012.70	4815.50	-849.81	911.56	42.82	176.90	50.10	3.57	PASS
5125.00†	4956.11	-698.58	911.74	5112.62	4910.00	-871.67	935.58	42.89	180.71	51.47	3.55	PASS
5225.00†	5051.54	-716.75	935.46	5212.55	5004.50	-893.53	959.60	42.95	184.51	52.84	3.53	PASS
5325.00†	5146.97	-734.93	959.18	5312.48	5099.00	-915.39	983.62	43.02	188.32	54.21	3.51	PASS
5425.00†	5242.40	-753.10	982.90	5412.40	5193.51	-937.25	1007.65	43.08	192.13	55.59	3.49	PASS
5525.00†	5337.83	-771.28	1006.62	5512.33	5288.01	-959.12	1031.67	43.13	195.94	56.96	3.47	PASS
5625.00†	5433.26	-789.45	1030.34	5612.26	5382.51	-980.98	1055.69	43.19	199.75	58.35	3.45	PASS
5725.00†	5528.69	-807.63	1054.06	5712.19	5477.01	-1002.84	1079.71	43.24	203.56	59.73	3.44	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 13N-30A-M PWB Offset Wellpath: GOETZEL 13N-30A-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#21 GOETZEL 13N-30A-M (2157'FSL & 2053'FWL, SEC.29) Well: GOETZEL 13N-30A-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5825.00†	5624.12	-825.80	1077.78	5812.11	5571.51	-1024.70	1103.73	43.29	207.37	61.11	3.42	PASS
5925.00†	5719.55	-843.98	1101.50	5912.04	5666.01	-1046.56	1127.76	43.34	211.18	62.50	3.41	PASS
6025.00†	5814.98	-862.15	1125.22	6011.97	5760.51	-1068.42	1151.78	43.39	214.99	63.89	3.39	PASS
6125.00†	5910.41	-880.33	1148.94	6111.89	5855.01	-1090.28	1175.80	43.44	218.80	65.28	3.38	PASS
6225.00†	6005.84	-898.50	1172.66	6212.07	5949.77	-1112.21	1199.81	43.50	222.60	66.68	3.36	PASS
6325.00†	6101.27	-916.68	1196.38	6313.50	6047.19	-1135.19	1215.68	45.74	225.93	68.64	3.32	PASS
6337.66	6113.36	-918.98	1199.39	6326.12	6059.42	-1138.13	1216.66	46.26	226.35	68.95	3.31	PASS
6425.00†	6197.68	-935.35	1214.89	6411.96	6142.77	-1158.43	1217.45	29.77	229.76	70.96	3.26	PASS
6525.00†	6295.51	-955.09	1219.69	6508.20	6235.41	-1181.61	1206.14	-2.63	234.75	72.81	3.25	PASS
6625.00†	6392.89	-975.53	1210.57	6602.42	6323.75	-1204.35	1182.79	-29.53	240.64	74.22	3.26	PASS
6725.00†	6487.92	-996.27	1187.72	6694.88	6406.66	-1226.31	1148.45	-42.25	247.11	75.31	3.30	PASS
6825.00†	6578.76	-1016.92	1151.57	6785.76	6483.19	-1247.21	1104.22	-47.63	253.79	77.10	3.31	PASS
6925.00†	6663.63	-1037.05	1102.83	6875.30	6552.54	-1266.80	1051.19	-49.84	260.37	77.26	3.39	PASS
7025.00†	6740.88	-1056.30	1042.46	6963.68	6614.07	-1284.87	990.45	-50.64	266.52	78.42	3.42	PASS
7125.00†	6809.01	-1074.27	971.61	7051.12	6667.23	-1301.23	923.06	-50.81	271.98	79.85	3.43	PASS
7225.00†	6866.70	-1090.62	891.68	7137.79	6711.59	-1315.72	850.09	-50.72	276.52	81.62	3.41	PASS
7325.00†	6912.82	-1105.03	804.22	7223.87	6746.78	-1328.21	772.58	-50.58	279.96	83.80	3.36	PASS
7425.00†	6946.47	-1117.23	710.93	7309.56	6772.53	-1338.56	691.57	-50.49	282.16	86.41	3.28	PASS
7525.00†	6966.99	-1126.96	613.63	7395.01	6788.62	-1346.68	608.09	-50.51	283.06	89.46	3.18	PASS
7625.00†	6974.00	-1134.06	514.21	7480.39	6794.91	-1352.48	523.19	-50.67	282.60	92.93	3.06	PASS
7626.30	6974.00	-1134.13	512.92	7481.50	6794.92	-1352.53	522.08	-50.67	282.58	92.98	3.05	PASS
7725.00†	6974.00	-1139.74	414.37	7578.40	6795.00	-1357.41	425.30	-50.60	282.03	97.32	2.91	PASS
7825.00†	6974.00	-1145.42	314.54	7678.40	6795.00	-1362.43	325.43	-50.52	281.52	102.10	2.77	PASS
7925.00†	6974.00	-1151.10	214.70	7778.40	6795.00	-1367.44	225.56	-50.43	281.00	107.14	2.63	PASS
8025.00†	6974.00	-1156.78	114.86	7878.39	6795.00	-1372.46	125.69	-50.34	280.49	112.40	2.50	PASS
8125.00†	6974.00	-1162.47	15.02	7978.39	6795.00	-1377.47	25.82	-50.26	279.97	117.84	2.38	PASS
8225.00†	6974.00	-1168.15	-84.82	8078.39	6795.00	-1382.49	-74.06	-50.17	279.46	123.44	2.27	PASS
8325.00†	6974.00	-1173.83	-184.66	8178.39	6795.00	-1387.50	-173.93	-50.08	278.95	129.18	2.17	PASS
8425.00†	6974.00	-1179.51	-284.49	8278.39	6795.00	-1392.51	-273.80	-49.99	278.43	135.03	2.07	PASS
8525.00†	6974.00	-1185.20	-384.33	8378.38	6795.00	-1397.53	-373.67	-49.90	277.92	140.98	1.98	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 13N-30A-M PWB Offset Wellpath: GOETZEL 13N-30A-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#21 GOETZEL 13N-30A-M (2157'FSL & 2053'FWL, SEC.29) Well: GOETZEL 13N-30A-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8625.00†	6974.00	-1190.88	-484.17	8478.38	6795.00	-1402.54	-473.54	-49.82	277.41	147.01	1.89	PASS
8725.00†	6974.00	-1196.56	-584.01	8578.38	6795.00	-1407.56	-573.42	-49.73	276.90	153.11	1.81	PASS
8825.00†	6974.00	-1202.24	-683.85	8678.38	6795.00	-1412.57	-673.29	-49.64	276.39	159.27	1.74	PASS
8925.00†	6974.00	-1207.92	-783.69	8778.37	6795.00	-1417.59	-773.16	-49.55	275.88	165.49	1.67	PASS
9025.00†	6974.00	-1213.61	-883.52	8878.37	6795.00	-1422.60	-873.03	-49.46	275.37	171.74	1.61	PASS
9125.00†	6974.00	-1219.29	-983.36	8978.37	6795.00	-1427.62	-972.90	-49.37	274.87	178.03	1.55	PASS
9225.00†	6974.00	-1224.97	-1083.20	9078.37	6795.00	-1432.63	-1072.78	-49.27	274.36	184.36	1.49	PASS
9325.00†	6974.00	-1230.65	-1183.04	9178.37	6795.00	-1437.65	-1172.65	-49.18	273.85	190.70	1.44	PASS
9425.00†	6974.00	-1236.33	-1282.88	9278.36	6795.00	-1442.66	-1272.52	-49.09	273.35	197.07	1.39	PASS
9525.00†	6974.00	-1242.02	-1382.72	9378.36	6795.00	-1447.68	-1372.39	-49.00	272.84	203.45	1.34	PASS
9625.00†	6974.00	-1247.70	-1482.56	9478.36	6795.00	-1452.69	-1472.26	-48.91	272.34	209.85	1.30	PASS
9725.00†	6974.00	-1253.38	-1582.39	9578.36	6795.00	-1457.70	-1572.13	-48.82	271.84	216.26	1.26	PASS
9825.00†	6974.00	-1259.06	-1682.23	9678.35	6795.00	-1462.72	-1672.01	-48.72	271.33	222.67	1.22	PASS
9925.00†	6974.00	-1264.75	-1782.07	9778.35	6795.00	-1467.73	-1771.88	-48.63	270.83	229.09	1.18	PASS
10025.00†	6974.00	-1270.43	-1881.91	9878.35	6795.00	-1472.75	-1871.75	-48.54	270.33	235.51	1.15	PASS
10125.00†	6974.00	-1276.11	-1981.75	9978.35	6795.00	-1477.76	-1971.62	-48.44	269.83	241.94	1.12	PASS
10225.00†	6974.00	-1281.79	-2081.59	10078.35	6795.00	-1482.78	-2071.49	-48.35	269.33	248.36	1.08	PASS
10325.00†	6974.00	-1287.47	-2181.42	10178.34	6795.00	-1487.79	-2171.37	-48.25	268.83	254.77	1.06	PASS
10425.00†	6974.00	-1293.16	-2281.26	10278.34	6795.00	-1492.81	-2271.24	-48.16	268.33	261.19	1.03	PASS
10525.00†	6974.00	-1298.84	-2381.10	10378.34	6795.00	-1497.82	-2371.11	-48.06	267.83	267.60	1.00	PASS
10625.00†	6974.00	-1304.52	-2480.94	10478.34	6795.00	-1502.84	-2470.98	-47.97	267.34	274.00	0.98	FAIL
10725.00†	6974.00	-1310.20	-2580.78	10578.33	6795.00	-1507.85	-2570.85	-47.87	266.84	280.39	0.95	FAIL
10825.00†	6974.00	-1315.88	-2680.62	10678.33	6795.00	-1512.87	-2670.73	-47.77	266.35	286.77	0.93	FAIL
10925.00†	6974.00	-1321.57	-2780.46	10778.33	6795.00	-1517.88	-2770.60	-47.68	265.85	293.15	0.91	FAIL
11025.00†	6974.00	-1327.25	-2880.29	10878.33	6795.00	-1522.89	-2870.47	-47.58	265.36	299.51	0.89	FAIL
11125.00†	6974.00	-1332.93	-2980.13	10978.33	6795.00	-1527.91	-2970.34	-47.48	264.86	305.86	0.87	FAIL
11225.00†	6974.00	-1338.61	-3079.97	11078.32	6795.00	-1532.92	-3070.21	-47.38	264.37	312.20	0.85	FAIL
11325.00†	6974.00	-1344.30	-3179.81	11178.32	6795.00	-1537.94	-3170.09	-47.29	263.88	318.52	0.83	FAIL
11425.00†	6974.00	-1349.98	-3279.65	11278.32	6795.00	-1542.95	-3269.96	-47.19	263.39	324.83	0.81	FAIL
11525.00†	6974.00	-1355.66	-3379.49	11378.32	6795.00	-1547.97	-3369.83	-47.09	262.90	331.13	0.79	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 13N-30A-M PWB Offset Wellpath: GOETZEL 13N-30A-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#21 GOETZEL 13N-30A-M (2157'FSL & 2053'FWL, SEC.29) Well: GOETZEL 13N-30A-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11625.00†	6974.00	-1361.34	-3479.32	11478.31	6795.00	-1552.98	-3469.70	-46.99	262.41	337.41	0.78	FAIL
11725.00†	6974.00	-1367.02	-3579.16	11578.31	6795.00	-1558.00	-3569.57	-46.89	261.92	343.67	0.76	FAIL
11825.00†	6974.00	-1372.71	-3679.00	11678.31	6795.00	-1563.01	-3669.45	-46.79	261.44	349.92	0.75	FAIL
11925.00†	6974.00	-1378.39	-3778.84	11778.31	6795.00	-1568.03	-3769.32	-46.69	260.95	356.15	0.73	FAIL
12025.00†	6974.00	-1384.07	-3878.68	11878.31	6795.00	-1573.04	-3869.19	-46.59	260.46	362.37	0.72	FAIL
12125.00†	6974.00	-1389.75	-3978.52	11978.30	6795.00	-1578.06	-3969.06	-46.49	259.98	368.56	0.70	FAIL
12225.00†	6974.00	-1395.44	-4078.35	12078.30	6795.00	-1583.07	-4068.93	-46.39	259.49	374.74	0.69	FAIL
12325.00†	6974.00	-1401.12	-4178.19	12178.30	6795.00	-1588.08	-4168.81	-46.28	259.01	380.90	0.68	FAIL
12425.00†	6974.00	-1406.80	-4278.03	12278.30	6795.00	-1593.10	-4268.68	-46.18	258.53	387.04	0.67	FAIL
12525.00†	6974.00	-1412.48	-4377.87	12378.29	6795.00	-1598.11	-4368.55	-46.08	258.05	393.16	0.66	FAIL
12625.00†	6974.00	-1418.16	-4477.71	12478.29	6795.00	-1603.13	-4468.42	-45.97	257.56	399.26	0.64	FAIL
12725.00†	6974.00	-1423.85	-4577.55	12578.29	6795.00	-1608.14	-4568.29	-45.87	257.08	405.33	0.63	FAIL
12825.00†	6974.00	-1429.53	-4677.39	12678.29	6795.00	-1613.16	-4668.17	-45.77	256.60	411.39	0.62	FAIL
12925.00†	6974.00	-1435.21	-4777.22	12778.29	6795.00	-1618.17	-4768.04	-45.66	256.13	417.43	0.61	FAIL
13025.00†	6974.00	-1440.89	-4877.06	12878.28	6795.00	-1623.19	-4867.91	-45.56	255.65	423.45	0.60	FAIL
13125.00†	6974.00	-1446.57	-4976.90	12978.28	6795.00	-1628.20	-4967.78	-45.45	255.17	429.44	0.59	FAIL
13225.00†	6974.00	-1452.26	-5076.74	13078.28	6795.00	-1633.22	-5067.65	-45.35	254.70	435.41	0.58	FAIL
13325.00†	6974.00	-1457.94	-5176.58	13178.28	6795.00	-1638.23	-5167.53	-45.24	254.22	441.36	0.58	FAIL
13425.00†	6974.00	-1463.62	-5276.42	13278.27	6795.00	-1643.25	-5267.40	-45.14	253.75	447.29	0.57	FAIL
13525.00†	6974.00	-1469.30	-5376.25	13378.27	6795.00	-1648.26	-5367.27	-45.03	253.27	453.19	0.56	FAIL
13625.00†	6974.00	-1474.99	-5476.09	13478.27	6795.00	-1653.27	-5467.14	-44.92	252.80	459.07	0.55	FAIL
13725.00†	6974.00	-1480.67	-5575.93	13578.27	6795.00	-1658.29	-5567.01	-44.81	252.33	464.93	0.54	FAIL
13825.00†	6974.00	-1486.35	-5675.77	13678.27	6795.00	-1663.30	-5666.88	-44.71	251.86	470.76	0.53	FAIL
13925.00†	6974.00	-1492.03	-5775.61	13778.26	6795.00	-1668.32	-5766.76	-44.60	251.39	476.57	0.53	FAIL
14025.00†	6974.00	-1497.71	-5875.45	13878.26	6795.00	-1673.33	-5866.63	-44.49	250.92	482.36	0.52	FAIL
14125.00†	6974.00	-1503.40	-5975.29	13978.26	6795.00	-1678.35	-5966.50	-44.38	250.45	488.12	0.51	FAIL
14225.00†	6974.00	-1509.08	-6075.12	14078.26	6795.00	-1683.36	-6066.37	-44.27	249.99	493.85	0.51	FAIL
14325.00†	6974.00	-1514.76	-6174.96	14178.25	6795.00	-1688.38	-6166.24	-44.16	249.52	499.56	0.50	FAIL
14425.00†	6974.00	-1520.44	-6274.80	14278.25	6795.00	-1693.39	-6266.12	-44.05	249.05	505.24	0.49	FAIL
14525.00†	6974.00	-1526.12	-6374.64	14378.25	6795.00	-1698.41	-6365.99	-43.94	248.59	510.90	0.49	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 13N-30A-M PWB Offset Wellpath: GOETZEL 13N-30A-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#21 GOETZEL 13N-30A-M (2157'FSL & 2053'FWL, SEC.29) Well: GOETZEL 13N-30A-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14625.00†	6974.00	-1531.81	-6474.48	14478.25	6795.00	-1703.42	-6465.86	-43.83	248.13	516.53	0.48	FAIL
14725.00†	6974.00	-1537.49	-6574.32	14578.25	6795.00	-1708.44	-6565.73	-43.72	247.66	522.13	0.47	FAIL
14825.00†	6974.00	-1543.17	-6674.15	14678.24	6795.00	-1713.45	-6665.60	-43.61	247.20	527.71	0.47	FAIL
14925.00†	6974.00	-1548.85	-6773.99	14778.24	6795.00	-1718.46	-6765.48	-43.49	246.74	533.26	0.46	FAIL
15025.00†	6974.00	-1554.54	-6873.83	14878.24	6795.00	-1723.48	-6865.35	-43.38	246.28	538.79	0.46	FAIL
15125.00†	6974.00	-1560.22	-6973.67	14978.24	6795.00	-1728.49	-6965.22	-43.27	245.82	544.28	0.45	FAIL
15225.00†	6974.00	-1565.90	-7073.51	15078.23	6795.00	-1733.51	-7065.09	-43.15	245.37	549.75	0.45	FAIL
15325.00†	6974.00	-1571.58	-7173.35	15178.23	6795.00	-1738.52	-7164.96	-43.04	244.91	555.19	0.44	FAIL
15425.00†	6974.00	-1577.26	-7273.18	15278.23	6795.00	-1743.54	-7264.84	-42.92	244.45	560.60	0.44	FAIL
15525.00†	6974.00	-1582.95	-7373.02	15378.23	6795.00	-1748.55	-7364.71	-42.81	244.00	565.99	0.43	FAIL
15625.00†	6974.00	-1588.63	-7472.86	15478.22	6795.00	-1753.57	-7464.58	-42.69	243.55	571.34	0.43	FAIL
15725.00†	6974.00	-1594.31	-7572.70	15578.22	6795.00	-1758.58	-7564.45	-42.58	243.09	576.67	0.42	FAIL
15825.00†	6974.00	-1599.99	-7672.54	15678.22	6795.00	-1763.60	-7664.32	-42.46	242.64	581.96	0.42	FAIL
15888.00†	6974.00	-1603.57	-7735.44	15741.22	6795.00	-1766.76	-7727.24	-42.39	242.36	585.28	0.41	FAIL
15888.79	6974.00	-1603.62	-7736.23	15742.01	6795.00	-1766.80	-7728.03	-42.39	242.35	584.97	0.41	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 13N-30A-M PWB Offset Wellpath: GOETZEL 13N-30A-M REV-A.0 PWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 13N-30A-M PWB Offset Wellpath: GOETZEL 13N-30A-M REV-A.0 PWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	25.00	1700.00	1675.00	25.00	1682.68	-12.21	-0.14	-44.23	35.04
8.5in Open Hole	1700.00	15749.00	14049.00	1682.68	6795.00	-44.23	35.04	-544.73	-2357.70



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GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

SURVEY PROGRAM - Offset Wellbore: GOETZEL 13N-30A-M REV-A.0 PWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1700.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GOETZEL 13N-30A-M PWB
1700.00	15749.99	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 13N-30A-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 13N-30A-M PWB Offset Wellpath: GOETZEL 13N-30A-M REV-A.0 PWP	
MD Reference: H&P 562 (25') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	25.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 33N-30B-M PWB Offset Wellpath: GOETZEL 33N-30B-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#19 GOETZEL 33N-30B-M (2197'FSL & 2053'FWL, SEC.29) Well: GOETZEL 33N-30B-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	25.00	25.00	20.04	0.00	0.00	20.04	1.72	31.52	PASS
125.00†	125.00	0.00	0.00	125.00	125.00	20.04	0.00	0.00	20.04	2.05	20.53	PASS
225.00†	225.00	0.00	0.00	225.00	225.00	20.04	0.00	0.00	20.04	2.61	12.69	PASS
325.00†	325.00	0.00	0.00	325.00	325.00	20.04	0.00	0.00	20.04	3.22	9.04	PASS
425.00†	425.00	0.00	0.00	425.00	425.00	20.04	0.00	0.00	20.04	3.83	6.98	PASS
525.00†	525.00	0.00	0.00	525.00	525.00	20.04	0.00	0.00	20.04	4.45	5.68	PASS
625.00†	625.00	0.00	0.00	625.00	625.00	20.04	0.00	0.00	20.04	5.07	4.79	PASS
725.00†	725.00	0.00	0.00	725.00	725.00	20.04	0.00	0.00	20.04	5.70	4.13	PASS
825.00†	825.00	0.00	0.00	825.00	825.00	20.04	0.00	0.00	20.04	6.32	3.64	PASS
850.00	850.00	0.00	0.00	850.00	850.00	20.04	0.00	0.00	20.04	6.48	3.53	PASS
925.00†	924.99	-0.60	0.78	924.99	924.99	20.04	0.00	-129.61	20.65	6.96	3.34	PASS
1025.00†	1024.89	-3.25	4.24	1025.04	1025.04	19.98	0.09	-137.55	23.59	7.75	3.39	PASS
1125.00†	1124.58	-8.02	10.47	1125.57	1125.53	18.49	2.28	-144.62	27.77	8.75	3.50	PASS
1225.00†	1223.93	-14.91	19.45	1226.29	1226.05	15.02	7.39	-149.46	32.33	9.93	3.55	PASS
1325.00†	1322.83	-23.90	31.19	1327.19	1326.48	9.54	15.43	-152.79	37.14	11.06	3.62	PASS
1425.00†	1421.15	-34.98	45.65	1428.27	1426.68	2.07	26.42	-155.09	42.11	12.16	3.71	PASS
1525.00†	1518.77	-48.14	62.83	1529.54	1526.53	-7.40	40.36	-156.65	47.17	13.22	3.81	PASS
1625.00†	1615.58	-63.37	82.71	1630.99	1625.90	-18.87	57.23	-157.69	52.30	14.26	3.90	PASS
1719.36	1706.08	-79.61	103.91	1726.88	1719.10	-31.53	75.85	-158.31	57.17	14.50	4.09	PASS
1725.00†	1711.46	-80.64	105.24	1732.62	1724.66	-32.34	77.05	-158.34	57.46	14.52	4.11	PASS
1825.00†	1806.89	-98.81	128.96	1834.47	1822.72	-47.81	99.80	-158.05	60.85	14.78	4.27	PASS
1925.00†	1902.32	-116.99	152.69	1935.28	1918.93	-64.73	124.68	-156.60	61.58	15.03	4.25	PASS
2025.00†	1997.75	-135.16	176.41	2035.27	2014.27	-81.67	149.60	-155.07	62.07	15.38	4.18	PASS
2125.00†	2093.18	-153.34	200.13	2135.25	2109.60	-98.62	174.53	-153.57	62.60	15.84	4.09	PASS
2225.00†	2188.61	-171.51	223.85	2235.24	2204.94	-115.56	199.45	-152.09	63.18	16.41	3.98	PASS
2325.00†	2284.04	-189.69	247.57	2335.22	2300.27	-132.51	224.38	-150.64	63.80	17.08	3.85	PASS
2425.00†	2379.48	-207.86	271.29	2435.21	2395.60	-149.46	249.31	-149.21	64.45	17.85	3.72	PASS
2525.00†	2474.91	-226.04	295.01	2535.19	2490.94	-166.40	274.23	-147.82	65.15	18.71	3.58	PASS
2625.00†	2570.34	-244.21	318.73	2635.18	2586.27	-183.35	299.16	-146.46	65.89	19.65	3.44	PASS
2725.00†	2665.77	-262.39	342.45	2735.16	2681.61	-200.30	324.08	-145.12	66.66	20.67	3.30	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 33N-30B-M PWB Offset Wellpath: GOETZEL 33N-30B-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#19 GOETZEL 33N-30B-M (2197'FSL & 2053'FWL, SEC.29) Well: GOETZEL 33N-30B-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2825.00†	2761.20	-280.56	366.17	2835.15	2776.94	-217.24	349.01	-143.82	67.47	21.74	3.17	PASS
2925.00†	2856.63	-298.74	389.89	2935.13	2872.27	-234.19	373.93	-142.55	68.31	22.87	3.05	PASS
3025.00†	2952.06	-316.91	413.61	3035.12	2967.61	-251.13	398.86	-141.31	69.18	24.05	2.93	PASS
3125.00†	3047.49	-335.08	437.33	3135.10	3062.94	-268.08	423.79	-140.10	70.08	25.28	2.82	PASS
3225.00†	3142.92	-353.26	461.05	3235.09	3158.28	-285.03	448.71	-138.93	71.02	26.55	2.72	PASS
3325.00†	3238.35	-371.43	484.77	3335.07	3253.61	-301.97	473.64	-137.78	71.98	27.86	2.63	PASS
3425.00†	3333.78	-389.61	508.49	3435.06	3348.94	-318.92	498.56	-136.67	72.98	29.19	2.54	PASS
3525.00†	3429.21	-407.78	532.21	3535.04	3444.28	-335.87	523.49	-135.59	73.99	30.56	2.45	PASS
3625.00†	3524.64	-425.96	555.93	3635.03	3539.61	-352.81	548.41	-134.53	75.04	31.95	2.38	PASS
3725.00†	3620.07	-444.13	579.65	3735.01	3634.95	-369.76	573.34	-133.51	76.11	33.37	2.31	PASS
3825.00†	3715.51	-462.31	603.37	3835.00	3730.28	-386.70	598.27	-132.51	77.20	34.81	2.24	PASS
3925.00†	3810.94	-480.48	627.09	3934.98	3825.61	-403.65	623.19	-131.54	78.32	36.26	2.18	PASS
4025.00†	3906.37	-498.66	650.81	4034.97	3920.95	-420.60	648.12	-130.60	79.46	37.74	2.13	PASS
4125.00†	4001.80	-516.83	674.53	4134.95	4016.28	-437.54	673.04	-129.69	80.62	39.22	2.07	PASS
4225.00†	4097.23	-535.01	698.25	4234.94	4111.62	-454.49	697.97	-128.80	81.79	40.73	2.03	PASS
4325.00†	4192.66	-553.18	721.97	4334.92	4206.95	-471.43	722.89	-127.94	82.99	42.24	1.98	PASS
4425.00†	4288.09	-571.36	745.69	4434.91	4302.28	-488.38	747.82	-127.10	84.21	43.77	1.94	PASS
4525.00†	4383.52	-589.53	769.41	4534.89	4397.62	-505.33	772.75	-126.29	85.44	45.30	1.90	PASS
4625.00†	4478.95	-607.71	793.14	4634.88	4492.95	-522.27	797.67	-125.50	86.69	46.85	1.86	PASS
4725.00†	4574.38	-625.88	816.86	4734.86	4588.29	-539.22	822.60	-124.73	87.96	48.40	1.83	PASS
4825.00†	4669.81	-644.05	840.58	4834.85	4683.62	-556.17	847.52	-123.98	89.24	49.96	1.80	PASS
4925.00†	4765.24	-662.23	864.30	4934.83	4778.95	-573.11	872.45	-123.26	90.53	51.53	1.77	PASS
5025.00†	4860.67	-680.40	888.02	5034.82	4874.29	-590.06	897.37	-122.55	91.84	53.10	1.74	PASS
5125.00†	4956.11	-698.58	911.74	5134.80	4969.62	-607.00	922.30	-121.87	93.17	54.68	1.71	PASS
5225.00†	5051.54	-716.75	935.46	5234.79	5064.96	-623.95	947.23	-121.21	94.50	56.27	1.69	PASS
5325.00†	5146.97	-734.93	959.18	5334.77	5160.29	-640.90	972.15	-120.56	95.85	57.85	1.66	PASS
5425.00†	5242.40	-753.10	982.90	5434.76	5255.62	-657.84	997.08	-119.93	97.21	59.45	1.64	PASS
5525.00†	5337.83	-771.28	1006.62	5534.75	5350.96	-674.79	1022.00	-119.32	98.59	61.04	1.62	PASS
5625.00†	5433.26	-789.45	1030.34	5634.73	5446.29	-691.74	1046.93	-118.73	99.97	62.64	1.60	PASS
5725.00†	5528.69	-807.63	1054.06	5734.72	5541.62	-708.68	1071.86	-118.15	101.36	64.24	1.58	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 33N-30B-M PWB Offset Wellpath: GOETZEL 33N-30B-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#19 GOETZEL 33N-30B-M (2197'FSL & 2053'FWL, SEC.29) Well: GOETZEL 33N-30B-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5825.00†	5624.12	-825.80	1077.78	5834.70	5636.96	-725.63	1096.78	-117.59	102.77	65.85	1.57	PASS
5925.00†	5719.55	-843.98	1101.50	5934.69	5732.29	-742.57	1121.71	-117.04	104.18	67.45	1.55	PASS
6025.00†	5814.98	-862.15	1125.22	6034.67	5827.63	-759.52	1146.63	-116.51	105.60	69.06	1.53	PASS
6125.00†	5910.41	-880.33	1148.94	6134.66	5922.96	-776.47	1171.56	-115.99	107.03	70.67	1.52	PASS
6225.00†	6005.84	-898.50	1172.66	6234.64	6018.29	-793.41	1196.48	-115.49	108.47	72.28	1.51	PASS
6325.00†	6101.27	-916.68	1196.38	6337.47	6117.19	-811.12	1218.10	-117.07	108.93	73.38	1.49	PASS
6337.66	6113.36	-918.98	1199.39	6350.52	6129.91	-813.43	1219.86	-117.78	108.78	73.37	1.49	PASS
6425.00†	6197.68	-935.35	1214.89	6439.63	6217.32	-829.50	1225.58	-143.58	108.18	73.07	1.49	PASS
6525.00†	6295.51	-955.09	1219.69	6540.10	6315.75	-848.00	1218.76	173.48	108.99	72.52	1.51	PASS
6625.00†	6392.89	-975.53	1210.57	6638.95	6410.67	-866.26	1198.46	136.53	111.37	72.23	1.55	PASS
6725.00†	6487.92	-996.27	1187.72	6736.29	6500.50	-883.97	1165.66	114.57	115.14	72.35	1.60	PASS
6825.00†	6578.76	-1016.92	1151.57	6832.22	6583.90	-900.83	1121.49	100.98	120.03	72.95	1.65	PASS
6925.00†	6663.63	-1037.05	1102.83	6926.89	6659.71	-916.59	1067.16	91.69	125.69	73.94	1.71	PASS
7025.00†	6740.88	-1056.30	1042.46	7020.41	6727.00	-931.05	1003.93	84.94	131.77	75.50	1.75	PASS
7125.00†	6809.01	-1074.27	971.61	7112.95	6785.00	-944.01	933.08	79.92	137.95	77.80	1.78	PASS
7225.00†	6866.70	-1090.62	891.68	7204.64	6833.09	-955.33	855.91	76.20	143.92	80.99	1.78	PASS
7325.00†	6912.82	-1105.03	804.22	7295.64	6870.82	-964.87	773.72	73.50	149.46	85.11	1.76	PASS
7425.00†	6946.47	-1117.23	710.93	7386.09	6897.84	-972.54	687.81	71.65	154.38	90.05	1.72	PASS
7525.00†	6966.99	-1126.96	613.63	7476.13	6913.93	-978.26	599.46	70.55	158.52	95.64	1.66	PASS
7625.00†	6974.00	-1134.06	514.21	7566.35	6919.00	-981.98	509.52	70.12	161.79	101.62	1.60	PASS
7626.30	6974.00	-1134.13	512.92	7567.65	6919.00	-982.02	508.22	70.12	161.82	101.69	1.60	PASS
7725.00†	6974.00	-1139.74	414.37	7666.31	6919.00	-985.06	409.60	70.43	164.24	107.31	1.53	PASS
7825.00†	6974.00	-1145.42	314.54	7766.28	6919.00	-988.14	309.68	70.73	166.69	113.41	1.47	PASS
7925.00†	6974.00	-1151.10	214.70	7866.25	6919.00	-991.22	209.77	71.02	169.15	119.88	1.41	PASS
8025.00†	6974.00	-1156.78	114.86	7966.21	6919.00	-994.31	109.85	71.30	171.61	126.65	1.36	PASS
8125.00†	6974.00	-1162.47	15.02	8066.18	6919.00	-997.39	9.93	71.58	174.07	133.69	1.30	PASS
8225.00†	6974.00	-1168.15	-84.82	8166.15	6919.00	-1000.47	-89.99	71.84	176.54	140.96	1.25	PASS
8325.00†	6974.00	-1173.83	-184.66	8266.11	6919.00	-1003.55	-189.91	72.10	179.02	148.42	1.21	PASS
8425.00†	6974.00	-1179.51	-284.49	8366.08	6919.00	-1006.64	-289.83	72.35	181.49	156.06	1.16	PASS
8525.00†	6974.00	-1185.20	-384.33	8466.04	6919.00	-1009.72	-389.75	72.60	183.97	163.85	1.12	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 33N-30B-M PWB Offset Wellpath: GOETZEL 33N-30B-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#19 GOETZEL 33N-30B-M (2197'FSL & 2053'FWL, SEC.29) Well: GOETZEL 33N-30B-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8625.00†	6974.00	-1190.88	-484.17	8566.01	6919.00	-1012.80	-489.66	72.84	186.46	171.76	1.09	PASS
8725.00†	6974.00	-1196.56	-584.01	8665.98	6919.00	-1015.88	-589.58	73.07	188.94	179.79	1.05	PASS
8825.00†	6974.00	-1202.24	-683.85	8765.94	6919.00	-1018.97	-689.50	73.30	191.43	187.92	1.02	PASS
8925.00†	6974.00	-1207.92	-783.69	8865.91	6919.00	-1022.05	-789.42	73.52	193.93	196.14	0.99	FAIL
9025.00†	6974.00	-1213.61	-883.52	8965.87	6919.00	-1025.13	-889.34	73.73	196.42	204.44	0.96	FAIL
9125.00†	6974.00	-1219.29	-983.36	9065.84	6919.00	-1028.21	-989.26	73.94	198.92	212.81	0.93	FAIL
9225.00†	6974.00	-1224.97	-1083.20	9165.81	6919.00	-1031.30	-1089.18	74.15	201.42	221.24	0.91	FAIL
9325.00†	6974.00	-1230.65	-1183.04	9265.77	6919.00	-1034.38	-1189.10	74.35	203.92	229.73	0.89	FAIL
9425.00†	6974.00	-1236.33	-1282.88	9365.74	6919.00	-1037.46	-1289.01	74.54	206.43	238.28	0.87	FAIL
9525.00†	6974.00	-1242.02	-1382.72	9465.71	6919.00	-1040.54	-1388.93	74.73	208.94	246.86	0.85	FAIL
9625.00†	6974.00	-1247.70	-1482.56	9565.67	6919.00	-1043.63	-1488.85	74.92	211.45	255.50	0.83	FAIL
9725.00†	6974.00	-1253.38	-1582.39	9665.64	6919.00	-1046.71	-1588.77	75.10	213.96	264.16	0.81	FAIL
9825.00†	6974.00	-1259.06	-1682.23	9765.60	6919.00	-1049.79	-1688.69	75.28	216.48	272.87	0.79	FAIL
9925.00†	6974.00	-1264.75	-1782.07	9865.57	6919.00	-1052.87	-1788.61	75.45	218.99	281.60	0.78	FAIL
10025.00†	6974.00	-1270.43	-1881.91	9965.54	6919.00	-1055.96	-1888.53	75.62	221.51	290.37	0.76	FAIL
10125.00†	6974.00	-1276.11	-1981.75	10065.50	6919.00	-1059.04	-1988.44	75.78	224.03	299.16	0.75	FAIL
10225.00†	6974.00	-1281.79	-2081.59	10165.47	6919.00	-1062.12	-2088.36	75.94	226.55	307.98	0.73	FAIL
10325.00†	6974.00	-1287.47	-2181.42	10265.43	6919.00	-1065.20	-2188.28	76.10	229.08	316.82	0.72	FAIL
10425.00†	6974.00	-1293.16	-2281.26	10365.40	6919.00	-1068.29	-2288.20	76.26	231.60	325.68	0.71	FAIL
10525.00†	6974.00	-1298.84	-2381.10	10465.37	6919.00	-1071.37	-2388.12	76.41	234.13	334.57	0.70	FAIL
10625.00†	6974.00	-1304.52	-2480.94	10565.33	6919.00	-1074.45	-2488.04	76.56	236.66	343.47	0.69	FAIL
10725.00†	6974.00	-1310.20	-2580.78	10665.30	6919.00	-1077.53	-2587.96	76.70	239.19	352.38	0.68	FAIL
10825.00†	6974.00	-1315.88	-2680.62	10765.27	6919.00	-1080.62	-2687.87	76.84	241.72	361.32	0.67	FAIL
10925.00†	6974.00	-1321.57	-2780.46	10865.23	6919.00	-1083.70	-2787.79	76.98	244.26	370.27	0.66	FAIL
11025.00†	6974.00	-1327.25	-2880.29	10965.20	6919.00	-1086.78	-2887.71	77.12	246.79	379.23	0.65	FAIL
11125.00†	6974.00	-1332.93	-2980.13	11065.16	6919.00	-1089.86	-2987.63	77.25	249.33	388.20	0.64	FAIL
11225.00†	6974.00	-1338.61	-3079.97	11165.13	6919.00	-1092.95	-3087.55	77.38	251.86	397.19	0.63	FAIL
11325.00†	6974.00	-1344.30	-3179.81	11265.10	6919.00	-1096.03	-3187.47	77.51	254.40	406.19	0.63	FAIL
11425.00†	6974.00	-1349.98	-3279.65	11365.06	6919.00	-1099.11	-3287.39	77.64	256.94	415.20	0.62	FAIL
11525.00†	6974.00	-1355.66	-3379.49	11465.03	6919.00	-1102.19	-3387.31	77.76	259.48	424.21	0.61	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 33N-30B-M PWB Offset Wellpath: GOETZEL 33N-30B-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#19 GOETZEL 33N-30B-M (2197'FSL & 2053'FWL, SEC.29) Well: GOETZEL 33N-30B-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11625.00†	6974.00	-1361.34	-3479.32	11564.99	6919.00	-1105.28	-3487.22	77.88	262.03	433.24	0.60	FAIL
11725.00†	6974.00	-1367.02	-3579.16	11664.96	6919.00	-1108.36	-3587.14	78.00	264.57	442.28	0.60	FAIL
11825.00†	6974.00	-1372.71	-3679.00	11764.93	6919.00	-1111.44	-3687.06	78.11	267.11	451.33	0.59	FAIL
11925.00†	6974.00	-1378.39	-3778.84	11864.89	6919.00	-1114.52	-3786.98	78.23	269.66	460.38	0.59	FAIL
12025.00†	6974.00	-1384.07	-3878.68	11964.86	6919.00	-1117.61	-3886.90	78.34	272.21	469.44	0.58	FAIL
12125.00†	6974.00	-1389.75	-3978.52	12064.83	6919.00	-1120.69	-3986.82	78.45	274.75	478.51	0.57	FAIL
12225.00†	6974.00	-1395.44	-4078.35	12164.79	6919.00	-1123.77	-4086.74	78.56	277.30	487.58	0.57	FAIL
12325.00†	6974.00	-1401.12	-4178.19	12264.76	6919.00	-1126.85	-4186.65	78.66	279.85	496.66	0.56	FAIL
12425.00†	6974.00	-1406.80	-4278.03	12364.72	6919.00	-1129.94	-4286.57	78.77	282.40	505.75	0.56	FAIL
12525.00†	6974.00	-1412.48	-4377.87	12464.69	6919.00	-1133.02	-4386.49	78.87	284.96	514.84	0.55	FAIL
12625.00†	6974.00	-1418.16	-4477.71	12564.66	6919.00	-1136.10	-4486.41	78.97	287.51	523.93	0.55	FAIL
12725.00†	6974.00	-1423.85	-4577.55	12664.62	6919.00	-1139.18	-4586.33	79.07	290.06	533.04	0.54	FAIL
12825.00†	6974.00	-1429.53	-4677.39	12764.59	6919.00	-1142.27	-4686.25	79.16	292.62	542.14	0.54	FAIL
12925.00†	6974.00	-1435.21	-4777.22	12864.56	6919.00	-1145.35	-4786.17	79.26	295.17	551.25	0.53	FAIL
13025.00†	6974.00	-1440.89	-4877.06	12964.52	6919.00	-1148.43	-4886.08	79.35	297.73	560.37	0.53	FAIL
13125.00†	6974.00	-1446.57	-4976.90	13064.49	6919.00	-1151.51	-4986.00	79.44	300.28	569.49	0.53	FAIL
13225.00†	6974.00	-1452.26	-5076.74	13164.45	6919.00	-1154.59	-5085.92	79.53	302.84	578.61	0.52	FAIL
13325.00†	6974.00	-1457.94	-5176.58	13264.42	6919.00	-1157.68	-5185.84	79.62	305.40	587.74	0.52	FAIL
13425.00†	6974.00	-1463.62	-5276.42	13364.39	6919.00	-1160.76	-5285.76	79.71	307.96	596.87	0.52	FAIL
13525.00†	6974.00	-1469.30	-5376.25	13464.35	6919.00	-1163.84	-5385.68	79.79	310.52	606.00	0.51	FAIL
13625.00†	6974.00	-1474.99	-5476.09	13564.32	6919.00	-1166.92	-5485.60	79.88	313.08	615.14	0.51	FAIL
13725.00†	6974.00	-1480.67	-5575.93	13664.28	6919.00	-1170.01	-5585.52	79.96	315.64	624.28	0.51	FAIL
13825.00†	6974.00	-1486.35	-5675.77	13764.25	6919.00	-1173.09	-5685.43	80.04	318.20	633.42	0.50	FAIL
13925.00†	6974.00	-1492.03	-5775.61	13864.22	6919.00	-1176.17	-5785.35	80.12	320.76	642.57	0.50	FAIL
14025.00†	6974.00	-1497.71	-5875.45	13964.18	6919.00	-1179.25	-5885.27	80.20	323.32	651.72	0.50	FAIL
14125.00†	6974.00	-1503.40	-5975.29	14064.15	6919.00	-1182.34	-5985.19	80.28	325.89	660.87	0.49	FAIL
14225.00†	6974.00	-1509.08	-6075.12	14164.12	6919.00	-1185.42	-6085.11	80.36	328.45	670.02	0.49	FAIL
14325.00†	6974.00	-1514.76	-6174.96	14264.08	6919.00	-1188.50	-6185.03	80.43	331.01	679.18	0.49	FAIL
14425.00†	6974.00	-1520.44	-6274.80	14364.05	6919.00	-1191.58	-6284.95	80.51	333.58	688.33	0.48	FAIL
14525.00†	6974.00	-1526.12	-6374.64	14464.01	6919.00	-1194.67	-6384.86	80.58	336.15	697.49	0.48	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 33N-30B-M PWB Offset Wellpath: GOETZEL 33N-30B-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#19 GOETZEL 33N-30B-M (2197'FSL & 2053'FWL, SEC.29) Well: GOETZEL 33N-30B-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14625.00†	6974.00	-1531.81	-6474.48	14563.98	6919.00	-1197.75	-6484.78	80.65	338.71	706.65	0.48	FAIL
14725.00†	6974.00	-1537.49	-6574.32	14663.95	6919.00	-1200.83	-6584.70	80.72	341.28	715.82	0.48	FAIL
14825.00†	6974.00	-1543.17	-6674.15	14763.91	6919.00	-1203.91	-6684.62	80.79	343.85	724.98	0.47	FAIL
14925.00†	6974.00	-1548.85	-6773.99	14863.88	6919.00	-1207.00	-6784.54	80.86	346.41	734.15	0.47	FAIL
15025.00†	6974.00	-1554.54	-6873.83	14963.84	6919.00	-1210.08	-6884.46	80.93	348.98	743.32	0.47	FAIL
15125.00†	6974.00	-1560.22	-6973.67	15063.81	6919.00	-1213.16	-6984.38	81.00	351.55	752.49	0.47	FAIL
15225.00†	6974.00	-1565.90	-7073.51	15163.78	6919.00	-1216.24	-7084.29	81.06	354.12	761.66	0.46	FAIL
15325.00†	6974.00	-1571.58	-7173.35	15263.74	6919.00	-1219.33	-7184.21	81.13	356.69	770.83	0.46	FAIL
15425.00†	6974.00	-1577.26	-7273.18	15363.71	6919.00	-1222.41	-7284.13	81.19	359.26	780.01	0.46	FAIL
15525.00†	6974.00	-1582.95	-7373.02	15463.68	6919.00	-1225.49	-7384.05	81.25	361.83	789.18	0.46	FAIL
15625.00†	6974.00	-1588.63	-7472.86	15563.64	6919.00	-1228.57	-7483.97	81.32	364.40	798.36	0.46	FAIL
15725.00†	6974.00	-1594.31	-7572.70	15663.61	6919.00	-1231.66	-7583.89	81.38	366.97	807.54	0.45	FAIL
15825.00†	6974.00	-1599.99	-7672.54	15763.57	6919.00	-1234.74	-7683.81	81.44	369.54	816.72	0.45	FAIL
15878.46†	6974.00	-1603.03	-7725.91	15817.02	6919.00	-1236.39	-7737.23	81.47	370.92	821.63	0.45	FAIL
15888.79	6974.00	-1603.62	-7736.23	15817.02	6919.00	-1236.39	-7737.23	81.47	371.33	821.06	0.45	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 33N-30B-M PWB Offset Wellpath: GOETZEL 33N-30B-M REV-A.0 PWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 33N-30B-M PWB Offset Wellpath: GOETZEL 33N-30B-M REV-A.0 PWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	25.00	1700.00	1675.00	25.00	1693.06	12.21	0.00	-2.37	21.45
8.5in Open Hole	1700.00	15817.00	14117.00	1693.06	6919.00	-2.37	21.45	-370.74	-2358.30



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

SURVEY PROGRAM - Offset Wellbore: GOETZEL 33N-30B-M REV-A.0 PWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1700.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GOETZEL 33N-30B-M PWB
1700.00	15817.02	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 33N-30B-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 33N-30B-M PWB Offset Wellpath: GOETZEL 33N-30B-M REV-A.0 PWP	
MD Reference: PRECISION 562 (25") (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	25.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: FIRESTIEN #30-45 AWB Offset Wellpath: FIRESTIEN #30-45 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#06 EX FIRESTIEN #30-45 (1139'FSL & 1504'FEL SEC.30, 7251'MD) Well: FIRESTIEN #30-45 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	0.00	25.00	-1172.13	-3568.31	-108.18	3755.89	50.13	76.31	PASS
125.00†	125.00	0.00	0.00	100.00	125.00	-1172.13	-3568.31	-108.18	3755.89	52.43	72.90	PASS
225.00†	225.00	0.00	0.00	200.00	225.00	-1172.13	-3568.31	-108.18	3755.89	54.74	69.78	PASS
325.00†	325.00	0.00	0.00	300.00	325.00	-1172.13	-3568.31	-108.18	3755.89	57.05	66.90	PASS
425.00†	425.00	0.00	0.00	400.00	425.00	-1172.13	-3568.31	-108.18	3755.89	59.36	64.25	PASS
525.00†	525.00	0.00	0.00	500.00	525.00	-1172.13	-3568.31	-108.18	3755.89	61.51	61.80	PASS
625.00†	625.00	0.00	0.00	600.00	625.00	-1172.13	-3568.31	-108.18	3755.89	63.83	59.53	PASS
725.00†	725.00	0.00	0.00	700.00	725.00	-1172.13	-3568.31	-108.18	3755.89	66.16	57.41	PASS
825.00†	825.00	0.00	0.00	800.00	825.00	-1172.13	-3568.31	-108.18	3755.89	68.49	55.43	PASS
850.00	850.00	0.00	0.00	825.00	850.00	-1172.13	-3568.31	-108.18	3755.89	69.08	54.96	PASS
925.00†	924.99	-0.60	0.78	899.99	924.99	-1172.13	-3568.31	124.36	3756.45	70.83	53.59	PASS
1025.00†	1024.89	-3.25	4.24	999.89	1024.89	-1172.13	-3568.31	124.37	3758.91	73.18	51.89	PASS
1125.00†	1124.58	-8.02	10.47	1099.58	1124.58	-1172.13	-3568.31	124.40	3763.35	75.54	50.31	PASS
1225.00†	1223.93	-14.91	19.45	1198.93	1223.93	-1172.13	-3568.31	124.43	3769.78	77.90	48.86	PASS
1325.00†	1322.83	-23.90	31.19	1297.83	1322.83	-1172.13	-3568.31	124.48	3778.20	80.26	47.51	PASS
1425.00†	1421.15	-34.98	45.65	1396.15	1421.15	-1172.13	-3568.31	124.53	3788.65	82.62	46.27	PASS
1525.00†	1518.77	-48.14	62.83	1493.77	1518.77	-1172.13	-3568.31	124.59	3801.12	84.98	45.12	PASS
1625.00†	1615.58	-63.37	82.71	1590.58	1615.58	-1172.13	-3568.31	124.65	3815.66	87.36	44.05	PASS
1719.36	1706.08	-79.61	103.91	1681.08	1706.08	-1172.13	-3568.31	124.71	3831.29	89.33	43.14	PASS
1725.00†	1711.46	-80.64	105.24	1686.46	1711.46	-1172.13	-3568.31	124.73	3832.28	89.46	43.09	PASS
1825.00†	1806.89	-98.81	128.96	1781.89	1806.89	-1172.13	-3568.31	125.08	3849.92	91.68	42.24	PASS
1925.00†	1902.32	-116.99	152.69	1877.32	1902.32	-1172.13	-3568.31	125.43	3867.71	93.93	41.41	PASS
2025.00†	1997.75	-135.16	176.41	1972.75	1997.75	-1172.13	-3568.31	125.78	3885.64	96.20	40.62	PASS
2125.00†	2093.18	-153.34	200.13	2068.18	2093.18	-1172.13	-3568.31	126.13	3903.72	98.48	39.85	PASS
2225.00†	2188.61	-171.51	223.85	2163.61	2188.61	-1172.13	-3568.31	126.47	3921.95	100.79	39.12	PASS
2325.00†	2284.04	-189.69	247.57	2259.04	2284.04	-1172.13	-3568.31	126.81	3940.32	103.12	38.41	PASS
2425.00†	2379.48	-207.86	271.29	2354.48	2379.48	-1172.13	-3568.31	127.15	3958.83	105.46	37.73	PASS
2525.00†	2474.91	-226.04	295.01	2449.91	2474.91	-1172.13	-3568.31	127.48	3977.48	107.83	37.07	PASS
2625.00†	2570.34	-244.21	318.73	2545.34	2570.34	-1172.13	-3568.31	127.81	3996.26	110.21	36.44	PASS
2725.00†	2665.77	-262.39	342.45	2640.77	2665.77	-1172.13	-3568.31	128.14	4015.18	112.60	35.82	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: FIRESTIEN #30-45 AWB Offset Wellpath: FIRESTIEN #30-45 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#06 EX FIRESTIEN #30-45 (1139'FSL & 1504'FEL SEC.30, 7251'MD) Well: FIRESTIEN #30-45 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2825.00†	2761.20	-280.56	366.17	2736.20	2761.20	-1172.13	-3568.31	128.46	4034.23	115.02	35.24	PASS
2925.00†	2856.63	-298.74	389.89	2831.63	2856.63	-1172.13	-3568.31	128.78	4053.41	117.45	34.67	PASS
3025.00†	2952.06	-316.91	413.61	2927.06	2952.06	-1172.13	-3568.31	129.10	4072.73	119.90	34.12	PASS
3125.00†	3047.49	-335.08	437.33	3022.49	3047.49	-1172.13	-3568.31	129.42	4092.16	122.36	33.59	PASS
3225.00†	3142.92	-353.26	461.05	3117.92	3142.92	-1172.13	-3568.31	129.73	4111.73	124.83	33.08	PASS
3325.00†	3238.35	-371.43	484.77	3213.35	3238.35	-1172.13	-3568.31	130.04	4131.41	127.32	32.58	PASS
3425.00†	3333.78	-389.61	508.49	3308.78	3333.78	-1172.13	-3568.31	130.35	4151.22	129.82	32.11	PASS
3525.00†	3429.21	-407.78	532.21	3404.21	3429.21	-1172.13	-3568.31	130.65	4171.15	132.34	31.64	PASS
3625.00†	3524.64	-425.96	555.93	3499.64	3524.64	-1172.13	-3568.31	130.96	4191.20	134.86	31.20	PASS
3725.00†	3620.07	-444.13	579.65	3595.07	3620.07	-1172.13	-3568.31	131.25	4211.36	137.40	30.77	PASS
3825.00†	3715.51	-462.31	603.37	3690.51	3715.51	-1172.13	-3568.31	131.55	4231.64	139.95	30.35	PASS
3925.00†	3810.94	-480.48	627.09	3785.94	3810.94	-1172.13	-3568.31	131.84	4252.03	142.51	29.95	PASS
4025.00†	3906.37	-498.66	650.81	3881.37	3906.37	-1172.13	-3568.31	132.14	4272.54	145.08	29.56	PASS
4125.00†	4001.80	-516.83	674.53	3976.80	4001.80	-1172.13	-3568.31	132.42	4293.15	147.66	29.18	PASS
4225.00†	4097.23	-535.01	698.25	4072.23	4097.23	-1172.13	-3568.31	132.71	4313.87	150.25	28.81	PASS
4325.00†	4192.66	-553.18	721.97	4167.66	4192.66	-1172.13	-3568.31	132.99	4334.70	152.85	28.46	PASS
4425.00†	4288.09	-571.36	745.69	4263.09	4288.09	-1172.13	-3568.31	133.27	4355.64	155.45	28.11	PASS
4525.00†	4383.52	-589.53	769.41	4358.52	4383.52	-1172.13	-3568.31	133.55	4376.68	158.07	27.78	PASS
4625.00†	4478.95	-607.71	793.14	4453.95	4478.95	-1172.13	-3568.31	133.83	4397.82	160.69	27.46	PASS
4725.00†	4574.38	-625.88	816.86	4549.38	4574.38	-1172.13	-3568.31	134.10	4419.06	163.32	27.14	PASS
4825.00†	4669.81	-644.05	840.58	4644.81	4669.81	-1172.13	-3568.31	134.37	4440.40	165.95	26.84	PASS
4925.00†	4765.24	-662.23	864.30	4740.24	4765.24	-1172.13	-3568.31	134.64	4461.84	168.60	26.55	PASS
5025.00†	4860.67	-680.40	888.02	4835.67	4860.67	-1172.13	-3568.31	134.90	4483.38	171.25	26.26	PASS
5125.00†	4956.11	-698.58	911.74	4931.11	4956.11	-1172.13	-3568.31	135.17	4505.01	173.90	25.98	PASS
5225.00†	5051.54	-716.75	935.46	5026.54	5051.54	-1172.13	-3568.31	135.43	4526.73	176.56	25.71	PASS
5325.00†	5146.97	-734.93	959.18	5121.97	5146.97	-1172.13	-3568.31	135.69	4548.55	179.22	25.45	PASS
5425.00†	5242.40	-753.10	982.90	5217.40	5242.40	-1172.13	-3568.31	135.94	4570.46	181.89	25.20	PASS
5525.00†	5337.83	-771.28	1006.62	5312.83	5337.83	-1172.13	-3568.31	136.20	4592.46	184.57	24.95	PASS
5625.00†	5433.26	-789.45	1030.34	5408.26	5433.26	-1172.13	-3568.31	136.45	4614.55	187.25	24.71	PASS
5725.00†	5528.69	-807.63	1054.06	5503.69	5528.69	-1172.13	-3568.31	136.70	4636.72	189.93	24.48	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: FIRESTIEN #30-45 AWB Offset Wellpath: FIRESTIEN #30-45 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#06 EX FIRESTIEN #30-45 (1139'FSL & 1504'FEL SEC.30, 7251'MD) Well: FIRESTIEN #30-45 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5825.00†	5624.12	-825.80	1077.78	5599.12	5624.12	-1172.13	-3568.31	136.94	4658.98	192.62	24.25	PASS
5925.00†	5719.55	-843.98	1101.50	5694.55	5719.55	-1172.13	-3568.31	137.19	4681.33	195.31	24.03	PASS
6025.00†	5814.98	-862.15	1125.22	5789.98	5814.98	-1172.13	-3568.31	137.43	4703.76	198.01	23.82	PASS
6125.00†	5910.41	-880.33	1148.94	5885.41	5910.41	-1172.13	-3568.31	137.67	4726.27	200.71	23.61	PASS
6225.00†	6005.84	-898.50	1172.66	5980.84	6005.84	-1172.13	-3568.31	137.91	4748.86	203.41	23.41	PASS
6325.00†	6101.27	-916.68	1196.38	6076.27	6101.27	-1172.13	-3568.31	138.14	4771.54	206.12	23.21	PASS
6337.66	6113.36	-918.98	1199.39	6088.36	6113.36	-1172.13	-3568.31	138.17	4774.41	206.46	23.18	PASS
6425.00†	6197.68	-935.35	1214.89	6172.68	6197.68	-1172.13	-3568.31	117.92	4789.06	208.87	22.99	PASS
6525.00†	6295.51	-955.09	1219.69	6270.51	6295.51	-1172.13	-3568.31	81.45	4792.92	211.85	22.68	PASS
6625.00†	6392.89	-975.53	1210.57	6367.89	6392.89	-1172.13	-3568.31	50.82	4782.93	214.87	22.31	PASS
6725.00†	6487.92	-996.27	1187.72	6462.92	6487.92	-1172.13	-3568.31	34.78	4759.28	217.81	21.90	PASS
6825.00†	6578.76	-1016.92	1151.57	6553.76	6578.76	-1172.13	-3568.31	26.56	4722.43	220.48	21.47	PASS
6925.00†	6663.63	-1037.05	1102.83	6638.63	6663.63	-1172.13	-3568.31	22.00	4673.10	222.85	21.02	PASS
7025.00†	6740.88	-1056.30	1042.46	6715.88	6740.88	-1172.13	-3568.31	19.39	4612.22	224.90	20.56	PASS
7125.00†	6809.01	-1074.27	971.61	6784.01	6809.01	-1172.13	-3568.31	18.00	4540.98	226.62	20.08	PASS
7225.00†	6866.70	-1090.62	891.68	6841.70	6866.70	-1172.13	-3568.31	17.58	4460.74	228.02	19.61	PASS
7325.00†	6912.82	-1105.03	804.22	6887.82	6912.82	-1172.13	-3568.31	18.20	4373.05	229.08	19.13	PASS
7425.00†	6946.47	-1117.23	710.93	6921.47	6946.47	-1172.13	-3568.31	20.59	4279.60	229.82	18.66	PASS
7525.00†	6966.99	-1126.96	613.63	6941.99	6966.99	-1172.13	-3568.31	28.40	4182.19	230.25	18.20	PASS
7625.00†	6974.00	-1134.06	514.21	6949.00	6974.00	-1172.13	-3568.31	87.88	4082.70	230.38	17.76	PASS
7626.30	6974.00	-1134.13	512.92	6949.00	6974.00	-1172.13	-3568.31	90.00	4081.41	230.38	17.76	PASS
7725.00†	6974.00	-1139.74	414.37	6949.00	6974.00	-1172.13	-3568.31	90.00	3982.82	230.35	17.33	PASS
7825.00†	6974.00	-1145.42	314.54	6949.00	6974.00	-1172.13	-3568.31	90.00	3882.94	230.33	16.90	PASS
7925.00†	6974.00	-1151.10	214.70	6949.00	6974.00	-1172.13	-3568.31	90.00	3783.07	230.31	16.46	PASS
8025.00†	6974.00	-1156.78	114.86	6949.00	6974.00	-1172.13	-3568.31	90.00	3683.20	230.29	16.03	PASS
8125.00†	6974.00	-1162.47	15.02	6949.00	6974.00	-1172.13	-3568.31	90.00	3583.35	230.27	15.60	PASS
8225.00†	6974.00	-1168.15	-84.82	6949.00	6974.00	-1172.13	-3568.31	90.00	3483.50	230.26	15.16	PASS
8325.00†	6974.00	-1173.83	-184.66	6949.00	6974.00	-1172.13	-3568.31	90.00	3383.66	230.25	14.73	PASS
8425.00†	6974.00	-1179.51	-284.49	6949.00	6974.00	-1172.13	-3568.31	90.00	3283.83	230.25	14.29	PASS
8525.00†	6974.00	-1185.20	-384.33	6949.00	6974.00	-1172.13	-3568.31	90.00	3184.01	230.24	13.86	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: FIRESTIEN #30-45 AWB Offset Wellpath: FIRESTIEN #30-45 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#06 EX FIRESTIEN #30-45 (1139'FSL & 1504'FEL SEC.30, 7251'MD) Well: FIRESTIEN #30-45 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8625.00†	6974.00	-1190.88	-484.17	6949.00	6974.00	-1172.13	-3568.31	90.00	3084.20	230.25	13.42	PASS
8725.00†	6974.00	-1196.56	-584.01	6949.00	6974.00	-1172.13	-3568.31	90.00	2984.40	230.25	12.99	PASS
8825.00†	6974.00	-1202.24	-683.85	6949.00	6974.00	-1172.13	-3568.31	90.00	2884.62	230.27	12.55	PASS
8925.00†	6974.00	-1207.92	-783.69	6949.00	6974.00	-1172.13	-3568.31	90.00	2784.86	230.29	12.12	PASS
9025.00†	6974.00	-1213.61	-883.52	6949.00	6974.00	-1172.13	-3568.31	90.00	2685.11	230.32	11.68	PASS
9125.00†	6974.00	-1219.29	-983.36	6949.00	6974.00	-1172.13	-3568.31	90.00	2585.38	230.37	11.25	PASS
9225.00†	6974.00	-1224.97	-1083.20	6949.00	6974.00	-1172.13	-3568.31	90.00	2485.67	230.42	10.81	PASS
9325.00†	6974.00	-1230.65	-1183.04	6949.00	6974.00	-1172.13	-3568.31	90.00	2385.99	230.49	10.37	PASS
9425.00†	6974.00	-1236.33	-1282.88	6949.00	6974.00	-1172.13	-3568.31	90.00	2286.33	230.58	9.94	PASS
9525.00†	6974.00	-1242.02	-1382.72	6949.00	6974.00	-1172.13	-3568.31	90.00	2186.71	230.70	9.50	PASS
9625.00†	6974.00	-1247.70	-1482.56	6949.00	6974.00	-1172.13	-3568.31	90.00	2087.12	230.84	9.06	PASS
9725.00†	6974.00	-1253.38	-1582.39	6949.00	6974.00	-1172.13	-3568.31	90.00	1987.58	231.02	8.62	PASS
9825.00†	6974.00	-1259.06	-1682.23	6949.00	6974.00	-1172.13	-3568.31	90.00	1888.08	231.24	8.18	PASS
9925.00†	6974.00	-1264.75	-1782.07	6949.00	6974.00	-1172.13	-3568.31	90.00	1788.64	231.52	7.74	PASS
10025.00†	6974.00	-1270.43	-1881.91	6949.00	6974.00	-1172.13	-3568.31	90.00	1689.26	231.86	7.30	PASS
10125.00†	6974.00	-1276.11	-1981.75	6949.00	6974.00	-1172.13	-3568.31	90.00	1589.97	232.30	6.86	PASS
10225.00†	6974.00	-1281.79	-2081.59	6949.00	6974.00	-1172.13	-3568.31	90.00	1490.76	232.85	6.41	PASS
10325.00†	6974.00	-1287.47	-2181.42	6949.00	6974.00	-1172.13	-3568.31	90.00	1391.68	233.55	5.97	PASS
10425.00†	6974.00	-1293.16	-2281.26	6949.00	6974.00	-1172.13	-3568.31	90.00	1292.73	234.44	5.52	PASS
10525.00†	6974.00	-1298.84	-2381.10	6949.00	6974.00	-1172.13	-3568.31	90.00	1193.95	235.61	5.08	PASS
10625.00†	6974.00	-1304.52	-2480.94	6949.00	6974.00	-1172.13	-3568.31	90.00	1095.40	237.13	4.63	PASS
10725.00†	6974.00	-1310.20	-2580.78	6949.00	6974.00	-1172.13	-3568.31	90.00	997.14	239.14	4.18	PASS
10825.00†	6974.00	-1315.88	-2680.62	6949.00	6974.00	-1172.13	-3568.31	90.00	899.26	241.85	3.72	PASS
10925.00†	6974.00	-1321.57	-2780.46	6949.00	6974.00	-1172.13	-3568.31	90.00	801.90	245.54	3.27	PASS
11025.00†	6974.00	-1327.25	-2880.29	6949.00	6974.00	-1172.13	-3568.31	90.00	705.29	250.67	2.82	PASS
11125.00†	6974.00	-1332.93	-2980.13	6949.00	6974.00	-1172.13	-3568.31	90.00	609.76	257.95	2.37	PASS
11225.00†	6974.00	-1338.61	-3079.97	6949.00	6974.00	-1172.13	-3568.31	90.00	515.94	268.52	1.92	PASS
11325.00†	6974.00	-1344.30	-3179.81	6949.00	6974.00	-1172.13	-3568.31	90.00	424.94	284.29	1.50	PASS
11425.00†	6974.00	-1349.98	-3279.65	6949.00	6974.00	-1172.13	-3568.31	90.00	339.05	308.35	1.10	PASS
11525.00†	6974.00	-1355.66	-3379.49	6949.00	6974.00	-1172.13	-3568.31	90.00	263.32	344.49	0.76	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



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GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: FIRESTIEN #30-45 AWB Offset Wellpath: FIRESTIEN #30-45 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#06 EX FIRESTIEN #30-45 (1139'FSL & 1504'FEL SEC.30, 7251'MD) Well: FIRESTIEN #30-45 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11625.00†	6974.00	-1361.34	-3479.32	6949.00	6974.00	-1172.13	-3568.31	90.00	209.09	389.26	0.54	FAIL
11703.16†	6974.00	-1365.78	-3557.35	6948.91	6973.91	-1172.13	-3568.31	89.97	193.96	409.92	0.47	FAIL
11707.33†	6974.00	-1366.02	-3561.52	6949.00	6974.00	-1172.13	-3568.31	90.00	194.01	410.17	0.47	FAIL
11725.00†	6974.00	-1367.02	-3579.16	6949.00	6974.00	-1172.13	-3568.31	90.00	195.20	410.09	0.48	FAIL
11825.00†	6974.00	-1372.71	-3679.00	6949.00	6974.00	-1172.13	-3568.31	90.00	229.09	384.23	0.60	FAIL
11925.00†	6974.00	-1378.39	-3778.84	6949.00	6974.00	-1172.13	-3568.31	90.00	294.73	347.10	0.85	FAIL
12025.00†	6974.00	-1384.07	-3878.68	6949.00	6974.00	-1172.13	-3568.31	90.00	375.83	318.80	1.18	PASS
12125.00†	6974.00	-1389.75	-3978.52	6949.00	6974.00	-1172.13	-3568.31	90.00	464.36	299.39	1.55	PASS
12225.00†	6974.00	-1395.44	-4078.35	6949.00	6974.00	-1172.13	-3568.31	90.00	556.78	285.99	1.95	PASS
12325.00†	6974.00	-1401.12	-4178.19	6949.00	6974.00	-1172.13	-3568.31	90.00	651.45	276.46	2.36	PASS
12425.00†	6974.00	-1406.80	-4278.03	6949.00	6974.00	-1172.13	-3568.31	90.00	747.51	269.46	2.78	PASS
12525.00†	6974.00	-1412.48	-4377.87	6949.00	6974.00	-1172.13	-3568.31	90.00	844.48	264.17	3.20	PASS
12625.00†	6974.00	-1418.16	-4477.71	6949.00	6974.00	-1172.13	-3568.31	90.00	942.09	260.08	3.63	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: FIRESTIEN #30-45 AWB Offset Wellpath: FIRESTIEN #30-45 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: FIRESTIEN #30-45 AWB Offset Wellpath: FIRESTIEN #30-45 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	0.00	441.00	441.00	0.00	441.00	-714.37	-2175.29	-714.37	-2175.29
8.625in Casing Surface	0.00	441.00	441.00	0.00	441.00	-714.37	-2175.29	-714.37	-2175.29
7.875in Open Hole	441.00	7224.00	6783.00	441.00	7224.00	-714.37	-2175.29	-714.37	-2175.29
4.5in Casing Production	0.00	7224.00	7224.00	0.00	7224.00	-714.37	-2175.29	-714.37	-2175.29



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

WELLPATH COMPOSITION - Offset Wellbore: FIRESTIEN #30-45 AWB Offset Wellpath: FIRESTIEN #30-45 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7250.00	Drift Indicator - Inclination Only (Actual Survey)	DRIFT INDICATOR TO TD <7250' FROM CO WEBSITE>	FIRESTIEN #30-45 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: FIRESTIEN #30-45 AWB Offset Wellpath: FIRESTIEN #30-45 AWP	
MD Reference: Rig on SLOT#06 EX FIRESTIEN #30-45 (1139'FSL & 1504'FEL SEC.30, 7251'MD) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



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GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 13C-30-M PWB Offset Wellpath: GOETZEL 13C-30-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#22 GOETZEL 13C-30-M (2137'FSL & 2053'FWL, SEC.29) Well: GOETZEL 13C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	25.00	25.00	-40.07	-0.23	-179.67	40.08	1.72	64.92	PASS
125.00†	125.00	0.00	0.00	125.00	125.00	-40.07	-0.23	-179.67	40.08	2.05	42.20	PASS
225.00†	225.00	0.00	0.00	225.00	225.00	-40.07	-0.23	-179.67	40.08	2.62	26.08	PASS
325.00†	325.00	0.00	0.00	325.00	325.00	-40.07	-0.23	-179.67	40.08	3.22	18.57	PASS
425.00†	425.00	0.00	0.00	425.00	425.00	-40.07	-0.23	-179.67	40.08	3.84	14.36	PASS
525.00†	525.00	0.00	0.00	525.00	525.00	-40.07	-0.23	-179.67	40.08	4.46	11.69	PASS
625.00†	625.00	0.00	0.00	624.74	624.74	-40.15	-0.16	-179.77	40.16	5.08	9.88	PASS
725.00†	725.00	0.00	0.00	723.63	723.59	-42.08	1.53	177.92	42.13	5.81	8.76	PASS
825.00†	825.00	0.00	0.00	822.23	822.00	-46.54	5.46	173.31	46.95	6.80	8.08	PASS
850.00	850.00	0.00	0.00	846.80	846.50	-48.05	6.79	171.96	48.65	7.04	8.04	PASS
925.00†	924.99	-0.60	0.78	920.40	919.73	-53.51	11.60	40.90	54.26	7.78	7.98	PASS
1025.00†	1024.89	-3.25	4.24	1018.26	1016.78	-62.95	19.91	37.60	62.25	8.87	7.90	PASS
1125.00†	1124.58	-8.02	10.47	1115.84	1113.06	-74.83	30.38	35.54	70.66	10.00	7.83	PASS
1225.00†	1223.93	-14.91	19.45	1213.12	1208.45	-89.12	42.97	34.35	79.38	11.05	7.88	PASS
1325.00†	1322.83	-23.90	31.19	1310.10	1302.85	-105.78	57.64	33.78	88.34	12.06	7.98	PASS
1425.00†	1421.15	-34.98	45.65	1406.79	1396.16	-124.77	74.36	33.66	97.52	13.04	8.09	PASS
1525.00†	1518.77	-48.14	62.83	1503.18	1488.29	-146.04	93.09	33.87	106.90	14.06	8.18	PASS
1625.00†	1615.58	-63.37	82.71	1600.24	1580.08	-169.70	113.93	34.36	116.37	14.98	8.32	PASS
1719.36	1706.08	-79.61	103.91	1694.29	1668.76	-193.22	134.65	35.46	123.47	15.39	8.47	PASS
1725.00†	1711.46	-80.64	105.24	1699.92	1674.07	-194.63	135.89	35.55	123.82	15.41	8.48	PASS
1825.00†	1806.89	-98.81	128.96	1799.67	1768.11	-219.57	157.85	37.09	130.08	15.38	8.82	PASS
1925.00†	1902.32	-116.99	152.69	1899.41	1862.16	-244.52	179.82	38.48	136.43	15.65	9.09	PASS
2025.00†	1997.75	-135.16	176.41	1999.16	1956.20	-269.46	201.79	39.75	142.85	16.04	9.27	PASS
2125.00†	2093.18	-153.34	200.13	2098.90	2050.24	-294.41	223.76	40.92	149.34	16.55	9.38	PASS
2225.00†	2188.61	-171.51	223.85	2198.65	2144.29	-319.35	245.73	41.98	155.88	17.18	9.42	PASS
2325.00†	2284.04	-189.69	247.57	2298.39	2238.33	-344.30	267.70	42.96	162.48	17.90	9.41	PASS
2425.00†	2379.48	-207.86	271.29	2398.14	2332.38	-369.24	289.67	43.86	169.11	18.71	9.35	PASS
2525.00†	2474.91	-226.04	295.01	2497.89	2426.42	-394.19	311.64	44.70	175.79	19.61	9.26	PASS
2625.00†	2570.34	-244.21	318.73	2597.63	2520.47	-419.13	333.61	45.47	182.50	20.57	9.15	PASS
2725.00†	2665.77	-262.39	342.45	2697.38	2614.51	-444.07	355.57	46.19	189.24	21.59	9.03	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 13C-30-M PWB Offset Wellpath: GOETZEL 13C-30-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#22 GOETZEL 13C-30-M (2137'FSL & 2053'FWL, SEC.29) Well: GOETZEL 13C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2825.00†	2761.20	-280.56	366.17	2797.12	2708.55	-469.02	377.54	46.85	196.00	22.67	8.89	PASS
2925.00†	2856.63	-298.74	389.89	2896.87	2802.60	-493.96	399.51	47.48	202.80	23.79	8.75	PASS
3025.00†	2952.06	-316.91	413.61	2996.61	2896.64	-518.91	421.48	48.06	209.61	24.95	8.62	PASS
3125.00†	3047.49	-335.08	437.33	3096.36	2990.69	-543.85	443.45	48.61	216.44	26.15	8.48	PASS
3225.00†	3142.92	-353.26	461.05	3196.11	3084.73	-568.80	465.42	49.12	223.30	27.38	8.35	PASS
3325.00†	3238.35	-371.43	484.77	3295.85	3178.78	-593.74	487.39	49.60	230.17	28.63	8.22	PASS
3425.00†	3333.78	-389.61	508.49	3395.60	3272.82	-618.69	509.36	50.06	237.05	29.90	8.10	PASS
3525.00†	3429.21	-407.78	532.21	3495.34	3366.86	-643.63	531.33	50.49	243.95	31.20	7.98	PASS
3625.00†	3524.64	-425.96	555.93	3595.09	3460.91	-668.58	553.30	50.89	250.86	32.52	7.86	PASS
3725.00†	3620.07	-444.13	579.65	3694.83	3554.95	-693.52	575.26	51.27	257.79	33.85	7.76	PASS
3825.00†	3715.51	-462.31	603.37	3794.58	3649.00	-718.46	597.23	51.64	264.72	35.19	7.66	PASS
3925.00†	3810.94	-480.48	627.09	3894.32	3743.04	-743.41	619.20	51.98	271.67	36.55	7.56	PASS
4025.00†	3906.37	-498.66	650.81	3994.07	3837.08	-768.35	641.17	52.31	278.62	37.92	7.47	PASS
4125.00†	4001.80	-516.83	674.53	4093.82	3931.13	-793.30	663.14	52.62	285.58	39.30	7.38	PASS
4225.00†	4097.23	-535.01	698.25	4193.56	4025.17	-818.24	685.11	52.92	292.55	40.69	7.30	PASS
4325.00†	4192.66	-553.18	721.97	4293.31	4119.22	-843.19	707.08	53.20	299.53	42.09	7.22	PASS
4425.00†	4288.09	-571.36	745.69	4393.05	4213.26	-868.13	729.05	53.47	306.52	43.49	7.15	PASS
4525.00†	4383.52	-589.53	769.41	4492.80	4307.31	-893.08	751.02	53.73	313.51	44.90	7.08	PASS
4625.00†	4478.95	-607.71	793.14	4592.54	4401.35	-918.02	772.98	53.98	320.51	46.32	7.01	PASS
4725.00†	4574.38	-625.88	816.86	4692.29	4495.39	-942.97	794.95	54.21	327.51	47.75	6.95	PASS
4825.00†	4669.81	-644.05	840.58	4792.03	4589.44	-967.91	816.92	54.44	334.52	49.17	6.89	PASS
4925.00†	4765.24	-662.23	864.30	4891.78	4683.48	-992.85	838.89	54.66	341.53	50.61	6.83	PASS
5025.00†	4860.67	-680.40	888.02	4991.53	4777.53	-1017.80	860.86	54.86	348.55	52.05	6.78	PASS
5125.00†	4956.11	-698.58	911.74	5091.27	4871.57	-1042.74	882.83	55.06	355.57	53.49	6.72	PASS
5225.00†	5051.54	-716.75	935.46	5191.02	4965.62	-1067.69	904.80	55.26	362.60	54.94	6.67	PASS
5325.00†	5146.97	-734.93	959.18	5290.76	5059.66	-1092.63	926.77	55.44	369.63	56.39	6.63	PASS
5425.00†	5242.40	-753.10	982.90	5390.51	5153.70	-1117.58	948.74	55.62	376.66	57.84	6.58	PASS
5525.00†	5337.83	-771.28	1006.62	5490.25	5247.75	-1142.52	970.70	55.79	383.70	59.30	6.54	PASS
5625.00†	5433.26	-789.45	1030.34	5590.00	5341.79	-1167.47	992.67	55.96	390.74	60.76	6.50	PASS
5725.00†	5528.69	-807.63	1054.06	5689.74	5435.84	-1192.41	1014.64	56.12	397.79	62.22	6.46	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 13C-30-M PWB Offset Wellpath: GOETZEL 13C-30-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#22 GOETZEL 13C-30-M (2137'FSL & 2053'FWL, SEC.29) Well: GOETZEL 13C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5825.00†	5624.12	-825.80	1077.78	5789.49	5529.88	-1217.36	1036.61	56.27	404.83	63.68	6.42	PASS
5925.00†	5719.55	-843.98	1101.50	5889.24	5623.92	-1242.30	1058.58	56.42	411.88	65.15	6.38	PASS
6025.00†	5814.98	-862.15	1125.22	5988.98	5717.97	-1267.24	1080.55	56.56	418.94	66.62	6.35	PASS
6125.00†	5910.41	-880.33	1148.94	6088.73	5812.01	-1292.19	1102.52	56.70	425.99	68.09	6.31	PASS
6225.00†	6005.84	-898.50	1172.66	6188.47	5906.06	-1317.13	1124.49	56.84	433.05	69.56	6.28	PASS
6325.00†	6101.27	-916.68	1196.38	6288.22	6000.10	-1342.08	1146.46	56.97	440.11	71.03	6.25	PASS
6337.66	6113.36	-918.98	1199.39	6300.85	6012.01	-1345.24	1149.24	56.98	441.00	71.22	6.24	PASS
6425.00†	6197.68	-935.35	1214.89	6387.86	6094.05	-1367.00	1168.40	36.39	446.34	72.23	6.23	PASS
6525.00†	6295.51	-955.09	1219.69	6486.09	6186.67	-1391.56	1190.04	-2.18	450.82	72.76	6.25	PASS
6625.00†	6392.89	-975.53	1210.57	6579.81	6275.30	-1415.13	1209.20	-36.21	455.06	72.76	6.31	PASS
6725.00†	6487.92	-996.27	1187.72	6674.11	6365.88	-1439.66	1217.80	-55.79	460.85	72.78	6.38	PASS
6825.00†	6578.76	-1016.92	1151.57	6772.62	6460.67	-1465.85	1213.55	-67.60	468.32	73.11	6.46	PASS
6925.00†	6663.63	-1037.05	1102.83	6876.03	6558.42	-1493.43	1194.65	-75.75	477.26	73.94	6.51	PASS
7025.00†	6740.88	-1056.30	1042.46	6985.00	6657.30	-1521.98	1159.15	-81.94	487.30	75.31	6.52	PASS
7125.00†	6809.01	-1074.27	971.61	7100.19	6754.72	-1550.87	1105.15	-86.91	497.92	77.39	6.48	PASS
7225.00†	6866.70	-1090.62	891.68	7222.11	6847.14	-1579.17	1031.08	-90.99	508.43	79.92	6.41	PASS
7325.00†	6912.82	-1105.03	804.22	7350.96	6929.96	-1605.67	936.23	-94.31	518.03	83.68	6.24	PASS
7425.00†	6946.47	-1117.23	710.93	7486.47	6997.75	-1628.83	821.44	-96.93	525.91	88.80	5.96	PASS
7525.00†	6966.99	-1126.96	613.63	7627.69	7044.76	-1646.96	689.77	-98.82	531.26	95.39	5.60	PASS
7625.00†	6974.00	-1134.06	514.21	7772.95	7066.08	-1658.48	546.80	-99.94	533.45	103.12	5.20	PASS
7626.30	6974.00	-1134.13	512.92	7774.85	7066.17	-1658.58	544.90	-99.95	533.45	103.22	5.20	PASS
7725.00†	6974.00	-1139.74	414.37	7884.72	7067.00	-1663.17	435.14	-100.07	532.03	109.45	4.89	PASS
7825.00†	6974.00	-1145.42	314.54	7984.70	7067.00	-1667.13	335.23	-100.10	530.34	115.50	4.61	PASS
7925.00†	6974.00	-1151.10	214.70	8084.69	7067.00	-1671.09	235.32	-100.13	528.64	121.93	4.36	PASS
8025.00†	6974.00	-1156.78	114.86	8184.67	7067.00	-1675.05	135.42	-100.17	526.95	128.67	4.11	PASS
8125.00†	6974.00	-1162.47	15.02	8284.66	7067.00	-1679.02	35.51	-100.20	525.25	135.69	3.89	PASS
8225.00†	6974.00	-1168.15	-84.82	8384.64	7067.00	-1682.98	-64.40	-100.23	523.56	142.93	3.68	PASS
8325.00†	6974.00	-1173.83	-184.66	8484.63	7067.00	-1686.94	-164.30	-100.27	521.87	150.37	3.48	PASS
8425.00†	6974.00	-1179.51	-284.49	8584.61	7067.00	-1690.90	-264.21	-100.30	520.17	157.98	3.30	PASS
8525.00†	6974.00	-1185.20	-384.33	8684.60	7067.00	-1694.87	-364.12	-100.34	518.48	165.73	3.14	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 13C-30-M PWB Offset Wellpath: GOETZEL 13C-30-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#22 GOETZEL 13C-30-M (2137'FSL & 2053'FWL, SEC.29) Well: GOETZEL 13C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8625.00†	6974.00	-1190.88	-484.17	8784.59	7067.00	-1698.83	-464.02	-100.37	516.79	173.60	2.98	PASS
8725.00†	6974.00	-1196.56	-584.01	8884.57	7067.00	-1702.79	-563.93	-100.40	515.10	181.58	2.84	PASS
8825.00†	6974.00	-1202.24	-683.85	8984.56	7067.00	-1706.76	-663.84	-100.44	513.40	189.66	2.71	PASS
8925.00†	6974.00	-1207.92	-783.69	9084.54	7067.00	-1710.72	-763.74	-100.47	511.71	197.81	2.59	PASS
9025.00†	6974.00	-1213.61	-883.52	9184.53	7067.00	-1714.68	-863.65	-100.51	510.02	206.04	2.48	PASS
9125.00†	6974.00	-1219.29	-983.36	9284.51	7067.00	-1718.64	-963.56	-100.54	508.33	214.33	2.38	PASS
9225.00†	6974.00	-1224.97	-1083.20	9384.50	7067.00	-1722.61	-1063.46	-100.58	506.64	222.68	2.28	PASS
9325.00†	6974.00	-1230.65	-1183.04	9484.48	7067.00	-1726.57	-1163.37	-100.62	504.95	231.08	2.19	PASS
9425.00†	6974.00	-1236.33	-1282.88	9584.47	7067.00	-1730.53	-1263.28	-100.65	503.25	239.52	2.10	PASS
9525.00†	6974.00	-1242.02	-1382.72	9684.45	7067.00	-1734.50	-1363.18	-100.69	501.56	248.00	2.03	PASS
9625.00†	6974.00	-1247.70	-1482.56	9784.44	7067.00	-1738.46	-1463.09	-100.72	499.87	256.52	1.95	PASS
9725.00†	6974.00	-1253.38	-1582.39	9884.42	7067.00	-1742.42	-1563.00	-100.76	498.18	265.06	1.88	PASS
9825.00†	6974.00	-1259.06	-1682.23	9984.41	7067.00	-1746.38	-1662.90	-100.80	496.49	273.64	1.82	PASS
9925.00†	6974.00	-1264.75	-1782.07	10084.39	7067.00	-1750.35	-1762.81	-100.84	494.80	282.24	1.76	PASS
10025.00†	6974.00	-1270.43	-1881.91	10184.38	7067.00	-1754.31	-1862.72	-100.87	493.11	290.86	1.70	PASS
10125.00†	6974.00	-1276.11	-1981.75	10284.36	7067.00	-1758.27	-1962.62	-100.91	491.42	299.50	1.64	PASS
10225.00†	6974.00	-1281.79	-2081.59	10384.35	7067.00	-1762.23	-2062.53	-100.95	489.73	308.17	1.59	PASS
10325.00†	6974.00	-1287.47	-2181.42	10484.33	7067.00	-1766.20	-2162.44	-100.99	488.04	316.85	1.54	PASS
10425.00†	6974.00	-1293.16	-2281.26	10584.32	7067.00	-1770.16	-2262.34	-101.03	486.35	325.54	1.50	PASS
10525.00†	6974.00	-1298.84	-2381.10	10684.30	7067.00	-1774.12	-2362.25	-101.06	484.66	334.25	1.45	PASS
10625.00†	6974.00	-1304.52	-2480.94	10784.29	7067.00	-1778.09	-2462.16	-101.10	482.98	342.97	1.41	PASS
10725.00†	6974.00	-1310.20	-2580.78	10884.27	7067.00	-1782.05	-2562.06	-101.14	481.29	351.70	1.37	PASS
10825.00†	6974.00	-1315.88	-2680.62	10984.26	7067.00	-1786.01	-2661.97	-101.18	479.60	360.44	1.33	PASS
10925.00†	6974.00	-1321.57	-2780.46	11084.24	7067.00	-1789.97	-2761.88	-101.22	477.91	369.19	1.30	PASS
11025.00†	6974.00	-1327.25	-2880.29	11184.23	7067.00	-1793.94	-2861.78	-101.26	476.22	377.95	1.26	PASS
11125.00†	6974.00	-1332.93	-2980.13	11284.22	7067.00	-1797.90	-2961.69	-101.30	474.54	386.72	1.23	PASS
11225.00†	6974.00	-1338.61	-3079.97	11384.20	7067.00	-1801.86	-3061.60	-101.35	472.85	395.50	1.20	PASS
11325.00†	6974.00	-1344.30	-3179.81	11484.19	7067.00	-1805.83	-3161.50	-101.39	471.16	404.28	1.17	PASS
11425.00†	6974.00	-1349.98	-3279.65	11584.17	7067.00	-1809.79	-3261.41	-101.43	469.48	413.06	1.14	PASS
11525.00†	6974.00	-1355.66	-3379.49	11684.16	7067.00	-1813.75	-3361.32	-101.47	467.79	421.85	1.11	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 13C-30-M PWB Offset Wellpath: GOETZEL 13C-30-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#22 GOETZEL 13C-30-M (2137'FSL & 2053'FWL, SEC.29) Well: GOETZEL 13C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11625.00†	6974.00	-1361.34	-3479.32	11784.14	7067.00	-1817.71	-3461.22	-101.51	466.10	430.65	1.08	PASS
11725.00†	6974.00	-1367.02	-3579.16	11884.13	7067.00	-1821.68	-3561.13	-101.55	464.42	439.45	1.06	PASS
11825.00†	6974.00	-1372.71	-3679.00	11984.11	7067.00	-1825.64	-3661.04	-101.60	462.73	448.25	1.03	PASS
11925.00†	6974.00	-1378.39	-3778.84	12084.10	7067.00	-1829.60	-3760.94	-101.64	461.05	457.06	1.01	PASS
12025.00†	6974.00	-1384.07	-3878.68	12184.08	7067.00	-1833.56	-3860.85	-101.68	459.36	465.87	0.99	FAIL
12125.00†	6974.00	-1389.75	-3978.52	12284.07	7067.00	-1837.53	-3960.76	-101.73	457.68	474.68	0.96	FAIL
12225.00†	6974.00	-1395.44	-4078.35	12384.05	7067.00	-1841.49	-4060.66	-101.77	455.99	483.49	0.94	FAIL
12325.00†	6974.00	-1401.12	-4178.19	12484.04	7067.00	-1845.45	-4160.57	-101.81	454.31	492.30	0.92	FAIL
12425.00†	6974.00	-1406.80	-4278.03	12584.02	7067.00	-1849.42	-4260.48	-101.86	452.62	501.12	0.90	FAIL
12525.00†	6974.00	-1412.48	-4377.87	12684.01	7067.00	-1853.38	-4360.38	-101.90	450.94	509.93	0.88	FAIL
12625.00†	6974.00	-1418.16	-4477.71	12783.99	7067.00	-1857.34	-4460.29	-101.95	449.25	518.75	0.87	FAIL
12725.00†	6974.00	-1423.85	-4577.55	12883.98	7067.00	-1861.30	-4560.20	-101.99	447.57	527.57	0.85	FAIL
12825.00†	6974.00	-1429.53	-4677.39	12983.96	7067.00	-1865.27	-4660.10	-102.04	445.89	536.38	0.83	FAIL
12925.00†	6974.00	-1435.21	-4777.22	13083.95	7067.00	-1869.23	-4760.01	-102.09	444.21	545.20	0.81	FAIL
13025.00†	6974.00	-1440.89	-4877.06	13183.93	7067.00	-1873.19	-4859.92	-102.13	442.52	554.02	0.80	FAIL
13125.00†	6974.00	-1446.57	-4976.90	13283.92	7067.00	-1877.16	-4959.82	-102.18	440.84	562.83	0.78	FAIL
13225.00†	6974.00	-1452.26	-5076.74	13383.90	7067.00	-1881.12	-5059.73	-102.23	439.16	571.65	0.77	FAIL
13325.00†	6974.00	-1457.94	-5176.58	13483.89	7067.00	-1885.08	-5159.64	-102.28	437.48	580.46	0.75	FAIL
13425.00†	6974.00	-1463.62	-5276.42	13583.87	7067.00	-1889.04	-5259.54	-102.32	435.80	589.28	0.74	FAIL
13525.00†	6974.00	-1469.30	-5376.25	13683.86	7067.00	-1893.01	-5359.45	-102.37	434.12	598.09	0.73	FAIL
13625.00†	6974.00	-1474.99	-5476.09	13783.85	7067.00	-1896.97	-5459.35	-102.42	432.43	606.90	0.71	FAIL
13725.00†	6974.00	-1480.67	-5575.93	13883.83	7067.00	-1900.93	-5559.26	-102.47	430.75	615.70	0.70	FAIL
13825.00†	6974.00	-1486.35	-5675.77	13983.82	7067.00	-1904.90	-5659.17	-102.52	429.07	624.51	0.69	FAIL
13925.00†	6974.00	-1492.03	-5775.61	14083.80	7067.00	-1908.86	-5759.07	-102.57	427.39	633.31	0.67	FAIL
14025.00†	6974.00	-1497.71	-5875.45	14183.79	7067.00	-1912.82	-5858.98	-102.62	425.72	642.11	0.66	FAIL
14125.00†	6974.00	-1503.40	-5975.29	14283.77	7067.00	-1916.78	-5958.89	-102.67	424.04	650.91	0.65	FAIL
14225.00†	6974.00	-1509.08	-6075.12	14383.76	7067.00	-1920.75	-6058.79	-102.72	422.36	659.71	0.64	FAIL
14325.00†	6974.00	-1514.76	-6174.96	14483.74	7067.00	-1924.71	-6158.70	-102.77	420.68	668.50	0.63	FAIL
14425.00†	6974.00	-1520.44	-6274.80	14583.73	7067.00	-1928.67	-6258.61	-102.83	419.00	677.29	0.62	FAIL
14525.00†	6974.00	-1526.12	-6374.64	14683.71	7067.00	-1932.63	-6358.51	-102.88	417.32	686.08	0.61	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 13C-30-M PWB Offset Wellpath: GOETZEL 13C-30-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#22 GOETZEL 13C-30-M (2137'FSL & 2053'FWL, SEC.29) Well: GOETZEL 13C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14625.00†	6974.00	-1531.81	-6474.48	14783.70	7067.00	-1936.60	-6458.42	-102.93	415.65	694.86	0.60	FAIL
14725.00†	6974.00	-1537.49	-6574.32	14883.68	7067.00	-1940.56	-6558.33	-102.98	413.97	703.64	0.59	FAIL
14825.00†	6974.00	-1543.17	-6674.15	14983.67	7067.00	-1944.52	-6658.23	-103.04	412.29	712.42	0.58	FAIL
14925.00†	6974.00	-1548.85	-6773.99	15083.65	7067.00	-1948.49	-6758.14	-103.09	410.62	721.19	0.57	FAIL
15025.00†	6974.00	-1554.54	-6873.83	15183.64	7067.00	-1952.45	-6858.05	-103.15	408.94	729.96	0.56	FAIL
15125.00†	6974.00	-1560.22	-6973.67	15283.62	7067.00	-1956.41	-6957.95	-103.20	407.27	738.72	0.55	FAIL
15225.00†	6974.00	-1565.90	-7073.51	15383.61	7067.00	-1960.37	-7057.86	-103.26	405.59	747.48	0.54	FAIL
15325.00†	6974.00	-1571.58	-7173.35	15483.59	7067.00	-1964.34	-7157.77	-103.31	403.92	756.24	0.53	FAIL
15425.00†	6974.00	-1577.26	-7273.18	15583.58	7067.00	-1968.30	-7257.67	-103.37	402.24	764.99	0.53	FAIL
15525.00†	6974.00	-1582.95	-7373.02	15683.56	7067.00	-1972.26	-7357.58	-103.43	400.57	773.74	0.52	FAIL
15625.00†	6974.00	-1588.63	-7472.86	15783.55	7067.00	-1976.23	-7457.49	-103.48	398.89	782.48	0.51	FAIL
15725.00†	6974.00	-1594.31	-7572.70	15883.53	7067.00	-1980.19	-7557.39	-103.54	397.22	791.21	0.50	FAIL
15825.00†	6974.00	-1599.99	-7672.54	15983.52	7067.00	-1984.15	-7657.30	-103.60	395.55	799.95	0.49	FAIL
15888.00†	6974.00	-1603.57	-7735.44	16046.51	7067.00	-1986.65	-7720.24	-103.64	394.49	805.44	0.49	FAIL
15888.79	6974.00	-1603.62	-7736.23	16047.30	7067.00	-1986.68	-7721.03	-103.64	394.48	805.16	0.49	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 13C-30-M PWB Offset Wellpath: GOETZEL 13C-30-M REV-A.0 PWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 13C-30-M PWB Offset Wellpath: GOETZEL 13C-30-M REV-A.0 PWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	25.00	1700.00	1675.00	25.00	1674.14	-24.43	-0.14	-71.54	41.35
8.5in Open Hole	1700.00	16061.00	14361.00	1674.14	7067.00	-71.54	41.35	-617.92	-2357.61



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

SURVEY PROGRAM - Offset Wellbore: GOETZEL 13C-30-M REV-A.0 PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1700.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GOETZEL 13C-30-M PWB
1700.00	16061.51	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 13C-30-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 13C-30-M PWB Offset Wellpath: GOETZEL 13C-30-M REV-A.0 PWP

MD Reference: H&P 562 (25') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	25.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL #2-39 AWB Offset Wellpath: GOETZEL #2-39 AWP

Facility: SEC.29-T06N-R66W Slot: SLOT#05 EX GOETZEL #2-39 (1988'FSL & 2185'FWL, SEC.29, PR, 7292) Well: GOETZEL #2-39 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	-3.00	25.00	-200.39	138.32	145.38	243.50	25.73	9.85	PASS
125.00†	125.00	0.00	0.00	97.00	125.00	-200.39	138.32	145.38	243.50	50.70	4.88	PASS
225.00†	225.00	0.00	0.00	197.00	225.00	-200.39	138.32	145.38	243.50	52.26	4.73	PASS
325.00†	325.00	0.00	0.00	297.00	325.00	-200.39	138.32	145.38	243.50	54.70	4.51	PASS
425.00†	425.00	0.00	0.00	397.00	425.00	-200.39	138.32	145.38	243.50	57.82	4.27	PASS
525.00†	525.00	0.00	0.00	497.00	525.00	-200.39	138.32	145.38	243.50	61.26	4.01	PASS
625.00†	625.00	0.00	0.00	597.00	625.00	-200.39	138.32	145.38	243.50	65.25	3.77	PASS
725.00†	725.00	0.00	0.00	697.00	725.00	-200.39	138.32	145.38	243.50	69.51	3.53	PASS
825.00†	825.00	0.00	0.00	797.00	825.00	-200.39	138.32	145.38	243.50	73.97	3.32	PASS
850.00	850.00	0.00	0.00	822.00	850.00	-200.39	138.32	145.38	243.50	75.12	3.27	PASS
925.00†	924.99	-0.60	0.78	896.99	924.99	-200.39	138.32	18.00	242.56	78.59	3.11	PASS
1025.00†	1024.89	-3.25	4.24	996.89	1024.89	-200.39	138.32	18.35	238.42	83.35	2.88	PASS
1125.00†	1124.58	-8.02	10.47	1096.58	1124.58	-200.39	138.32	19.01	230.98	88.21	2.63	PASS
1225.00†	1223.93	-14.91	19.45	1195.93	1223.93	-200.39	138.32	20.05	220.31	93.12	2.38	PASS
1325.00†	1322.83	-23.90	31.19	1294.83	1322.83	-200.39	138.32	21.55	206.47	98.07	2.11	PASS
1425.00†	1421.15	-34.98	45.65	1393.15	1421.15	-200.39	138.32	23.71	189.61	103.04	1.85	PASS
1525.00†	1518.77	-48.14	62.83	1490.77	1518.77	-200.39	138.32	26.81	169.94	108.01	1.58	PASS
1625.00†	1615.58	-63.37	82.71	1587.58	1615.58	-200.39	138.32	31.38	147.88	112.98	1.31	PASS
1719.36	1706.08	-79.61	103.91	1678.08	1706.08	-200.39	138.32	37.93	125.59	117.40	1.07	PASS
1725.00†	1711.46	-80.64	105.24	1683.46	1711.46	-200.39	138.32	38.40	124.24	117.67	1.06	PASS
1825.00†	1806.89	-98.81	128.96	1778.89	1806.89	-200.39	138.32	48.61	102.01	122.48	0.83	FAIL
1925.00†	1902.32	-116.99	152.69	1874.32	1902.32	-200.39	138.32	63.40	84.63	127.32	0.66	FAIL
2025.00†	1997.75	-135.16	176.41	1969.75	1997.75	-200.39	138.32	83.14	75.53	132.22	0.57	FAIL
2056.74†	2028.04	-140.93	183.93	2000.00	2028.00	-200.39	138.32	90.02	74.94	133.80	0.56	FAIL
2080.00†	2050.24	-145.16	189.45	2022.23	2050.23	-200.39	138.32	95.09	75.27	134.96	0.56	FAIL
2125.00†	2093.18	-153.34	200.13	2065.18	2093.18	-200.39	138.32	104.59	77.68	137.21	0.56	FAIL
2225.00†	2188.61	-171.51	223.85	2160.61	2188.61	-200.39	138.32	122.65	90.27	142.23	0.63	FAIL
2325.00†	2284.04	-189.69	247.57	2256.04	2284.04	-200.39	138.32	135.60	109.77	147.24	0.74	FAIL
2425.00†	2379.48	-207.86	271.29	2351.48	2379.48	-200.39	138.32	144.50	133.17	152.26	0.87	FAIL
2525.00†	2474.91	-226.04	295.01	2446.91	2474.91	-200.39	138.32	150.71	158.77	157.28	1.01	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL #2-39 AWB Offset Wellpath: GOETZEL #2-39 AWP

Facility: SEC.29-T06N-R66W Slot: SLOT#05 EX GOETZEL #2-39 (1988'FSL & 2185'FWL, SEC.29, PR, 7292) Well: GOETZEL #2-39 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2625.00†	2570.34	-244.21	318.73	2542.34	2570.34	-200.39	138.32	155.19	185.65	162.32	1.14	PASS
2725.00†	2665.77	-262.39	342.45	2637.77	2665.77	-200.39	138.32	158.54	213.33	167.37	1.28	PASS
2825.00†	2761.20	-280.56	366.17	2733.20	2761.20	-200.39	138.32	161.12	241.54	172.44	1.40	PASS
2925.00†	2856.63	-298.74	389.89	2828.63	2856.63	-200.39	138.32	163.16	270.10	177.53	1.52	PASS
3025.00†	2952.06	-316.91	413.61	2924.06	2952.06	-200.39	138.32	164.82	298.93	182.64	1.64	PASS
3125.00†	3047.49	-335.08	437.33	3019.49	3047.49	-200.39	138.32	166.18	327.94	187.76	1.75	PASS
3225.00†	3142.92	-353.26	461.05	3114.92	3142.92	-200.39	138.32	167.32	357.10	192.89	1.85	PASS
3325.00†	3238.35	-371.43	484.77	3210.35	3238.35	-200.39	138.32	168.30	386.37	198.04	1.95	PASS
3425.00†	3333.78	-389.61	508.49	3305.78	3333.78	-200.39	138.32	169.13	415.72	203.21	2.05	PASS
3525.00†	3429.21	-407.78	532.21	3401.21	3429.21	-200.39	138.32	169.85	445.15	208.39	2.14	PASS
3625.00†	3524.64	-425.96	555.93	3496.64	3524.64	-200.39	138.32	170.49	474.63	213.58	2.23	PASS
3725.00†	3620.07	-444.13	579.65	3592.07	3620.07	-200.39	138.32	171.05	504.16	218.78	2.31	PASS
3825.00†	3715.51	-462.31	603.37	3687.51	3715.51	-200.39	138.32	171.55	533.73	224.00	2.39	PASS
3925.00†	3810.94	-480.48	627.09	3782.94	3810.94	-200.39	138.32	171.99	563.33	229.23	2.46	PASS
4025.00†	3906.37	-498.66	650.81	3878.37	3906.37	-200.39	138.32	172.40	592.96	234.47	2.53	PASS
4125.00†	4001.80	-516.83	674.53	3973.80	4001.80	-200.39	138.32	172.76	622.62	239.72	2.60	PASS
4225.00†	4097.23	-535.01	698.25	4069.23	4097.23	-200.39	138.32	173.09	652.29	244.98	2.67	PASS
4325.00†	4192.66	-553.18	721.97	4164.66	4192.66	-200.39	138.32	173.39	681.99	250.26	2.73	PASS
4425.00†	4288.09	-571.36	745.69	4260.09	4288.09	-200.39	138.32	173.67	711.70	255.54	2.79	PASS
4525.00†	4383.52	-589.53	769.41	4355.52	4383.52	-200.39	138.32	173.92	741.42	260.83	2.85	PASS
4625.00†	4478.95	-607.71	793.14	4450.95	4478.95	-200.39	138.32	174.16	771.16	266.13	2.90	PASS
4725.00†	4574.38	-625.88	816.86	4546.38	4574.38	-200.39	138.32	174.38	800.90	271.45	2.95	PASS
4825.00†	4669.81	-644.05	840.58	4641.81	4669.81	-200.39	138.32	174.58	830.66	276.76	3.01	PASS
4925.00†	4765.24	-662.23	864.30	4737.24	4765.24	-200.39	138.32	174.77	860.42	282.09	3.05	PASS
5025.00†	4860.67	-680.40	888.02	4832.67	4860.67	-200.39	138.32	174.94	890.20	287.43	3.10	PASS
5125.00†	4956.11	-698.58	911.74	4928.11	4956.11	-200.39	138.32	175.11	919.98	292.77	3.15	PASS
5225.00†	5051.54	-716.75	935.46	5023.54	5051.54	-200.39	138.32	175.26	949.76	298.12	3.19	PASS
5325.00†	5146.97	-734.93	959.18	5118.97	5146.97	-200.39	138.32	175.40	979.56	303.48	3.23	PASS
5425.00†	5242.40	-753.10	982.90	5214.40	5242.40	-200.39	138.32	175.54	1009.35	308.85	3.27	PASS
5525.00†	5337.83	-771.28	1006.62	5309.83	5337.83	-200.39	138.32	175.67	1039.16	314.22	3.31	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL #2-39 AWB Offset Wellpath: GOETZEL #2-39 AWP

Facility: SEC.29-T06N-R66W Slot: SLOT#05 EX GOETZEL #2-39 (1988'FSL & 2185'FWL, SEC.29, PR, 7292) Well: GOETZEL #2-39 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5625.00†	5433.26	-789.45	1030.34	5405.26	5433.26	-200.39	138.32	175.79	1068.96	319.60	3.35	PASS
5725.00†	5528.69	-807.63	1054.06	5500.69	5528.69	-200.39	138.32	175.90	1098.77	324.98	3.39	PASS
5825.00†	5624.12	-825.80	1077.78	5596.12	5624.12	-200.39	138.32	176.01	1128.59	330.38	3.42	PASS
5925.00†	5719.55	-843.98	1101.50	5691.55	5719.55	-200.39	138.32	176.11	1158.41	335.77	3.45	PASS
6025.00†	5814.98	-862.15	1125.22	5786.98	5814.98	-200.39	138.32	176.21	1188.23	341.18	3.49	PASS
6125.00†	5910.41	-880.33	1148.94	5882.41	5910.41	-200.39	138.32	176.30	1218.05	346.58	3.52	PASS
6225.00†	6005.84	-898.50	1172.66	5977.84	6005.84	-200.39	138.32	176.39	1247.88	352.00	3.55	PASS
6325.00†	6101.27	-916.68	1196.38	6073.27	6101.27	-200.39	138.32	176.48	1277.71	357.42	3.58	PASS
6337.66	6113.36	-918.98	1199.39	6085.36	6113.36	-200.39	138.32	176.49	1281.49	358.10	3.58	PASS
6425.00†	6197.68	-935.35	1214.89	6169.68	6197.68	-200.39	138.32	155.13	1303.52	362.94	3.60	PASS
6525.00†	6295.51	-955.09	1219.69	6267.51	6295.51	-200.39	138.32	118.27	1318.68	368.77	3.58	PASS
6625.00†	6392.89	-975.53	1210.57	6364.89	6392.89	-200.39	138.32	88.11	1323.09	374.72	3.53	PASS
6725.00†	6487.92	-996.27	1187.72	6459.92	6487.92	-200.39	138.32	73.36	1317.06	380.55	3.46	PASS
6825.00†	6578.76	-1016.92	1151.57	6550.76	6578.76	-200.39	138.32	67.22	1301.30	386.00	3.37	PASS
6925.00†	6663.63	-1037.05	1102.83	6635.63	6663.63	-200.39	138.32	65.54	1276.82	391.04	3.27	PASS
7025.00†	6740.88	-1056.30	1042.46	6712.88	6740.88	-200.39	138.32	66.56	1245.00	395.72	3.15	PASS
7125.00†	6809.01	-1074.27	971.61	6781.01	6809.01	-200.39	138.32	69.37	1207.49	400.14	3.02	PASS
7225.00†	6866.70	-1090.62	891.68	6838.70	6866.70	-200.39	138.32	73.38	1166.21	404.38	2.89	PASS
7325.00†	6912.82	-1105.03	804.22	6884.82	6912.82	-200.39	138.32	78.00	1123.30	408.54	2.75	PASS
7425.00†	6946.47	-1117.23	710.93	6918.47	6946.47	-200.39	138.32	82.64	1080.96	412.64	2.62	PASS
7525.00†	6966.99	-1126.96	613.63	6938.99	6966.99	-200.39	138.32	86.76	1041.37	416.63	2.50	PASS
7625.00†	6974.00	-1134.06	514.21	6946.00	6974.00	-200.39	138.32	89.97	1006.49	420.36	2.40	PASS
7626.30	6974.00	-1134.13	512.92	6946.00	6974.00	-200.39	138.32	90.00	1006.07	420.41	2.40	PASS
7725.00†	6974.00	-1139.74	414.37	6946.00	6974.00	-200.39	138.32	90.00	979.07	424.06	2.31	PASS
7825.00†	6974.00	-1145.42	314.54	6946.00	6974.00	-200.39	138.32	90.00	961.31	428.02	2.25	PASS
7925.00†	6974.00	-1151.10	214.70	6946.00	6974.00	-200.39	138.32	90.00	953.77	432.01	2.21	PASS
8025.00†	6974.00	-1156.78	114.86	6946.00	6974.00	-200.39	138.32	90.00	956.68	435.78	2.20	PASS
8125.00†	6974.00	-1162.47	15.02	6946.00	6974.00	-200.39	138.32	90.00	969.94	439.16	2.21	PASS
8225.00†	6974.00	-1168.15	-84.82	6946.00	6974.00	-200.39	138.32	90.00	993.15	442.02	2.25	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL #2-39 AWB Offset Wellpath: GOETZEL #2-39 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL #2-39 AWB Offset Wellpath: GOETZEL #2-39 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.25in Open Hole	0.00	436.00	436.00	3.00	439.00	-122.16	84.32	-122.16	84.32
9.625in Casing Surface	0.00	436.00	436.00	3.00	439.00	-122.16	84.32	-122.16	84.32
7.875in Open Hole	436.00	7248.00	6812.00	439.00	7251.00	-122.16	84.32	-122.16	84.32
5.5in Casing Production	0.00	7248.00	7248.00	3.00	7251.00	-122.16	84.32	-122.16	84.32

WELLPATH COMPOSITION - Offset Wellbore: GOETZEL #2-39 AWB Offset Wellpath: GOETZEL #2-39 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7292.00	Custom Drift Indicator (2.0 Maximum Inclination)	ASSUMED VERTICAL TO SURFACE-2DEG CONE <7292>	GOETZEL #2-39 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL #2-39 AWB Offset Wellpath: GOETZEL #2-39 AWP

MD Reference: Rig on SLOT#05 EX GOETZEL #2-39 (1988'FSL & 2185'FWL, SEC.29, PR, 7292) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 33C-30-M PWB Offset Wellpath: GOETZEL 33C-30-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#18 GOETZEL 33C-30-M (2217'FSL & 2053'FWL, SEC.29) Well: GOETZEL 33C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	25.00	25.00	40.07	0.31	0.44	40.08	1.73	64.92	PASS
125.00†	125.00	0.00	0.00	125.00	125.00	40.07	0.31	0.44	40.08	2.04	42.34	PASS
225.00†	225.00	0.00	0.00	225.00	225.00	40.07	0.31	0.44	40.08	2.61	26.18	PASS
325.00†	325.00	0.00	0.00	325.00	325.00	40.07	0.31	0.44	40.08	3.22	18.63	PASS
425.00†	425.00	0.00	0.00	425.00	425.00	40.07	0.31	0.44	40.08	3.83	14.40	PASS
525.00†	525.00	0.00	0.00	525.00	525.00	40.07	0.31	0.44	40.08	4.45	11.72	PASS
625.00†	625.00	0.00	0.00	625.00	625.00	40.07	0.31	0.44	40.08	5.07	9.87	PASS
725.00†	725.00	0.00	0.00	725.00	725.00	40.07	0.31	0.44	40.08	5.70	8.52	PASS
825.00†	825.00	0.00	0.00	825.00	825.00	40.07	0.31	0.44	40.08	6.32	7.50	PASS
850.00	850.00	0.00	0.00	850.00	850.00	40.07	0.31	0.44	40.08	6.48	7.28	PASS
925.00†	924.99	-0.60	0.78	924.99	924.99	40.07	0.31	-128.11	40.67	6.96	6.78	PASS
1025.00†	1024.89	-3.25	4.24	1024.89	1024.89	40.07	0.31	-132.59	43.50	7.72	6.42	PASS
1125.00†	1124.58	-8.02	10.47	1124.58	1124.58	40.07	0.31	-139.26	49.16	8.61	6.41	PASS
1225.00†	1223.93	-14.91	19.45	1224.99	1224.98	39.65	1.19	-145.82	57.54	9.55	6.70	PASS
1325.00†	1322.83	-23.90	31.19	1326.02	1325.91	37.73	5.18	-150.22	66.96	10.58	6.96	PASS
1425.00†	1421.15	-34.98	45.65	1427.41	1426.97	34.25	12.40	-153.04	77.02	11.66	7.21	PASS
1525.00†	1518.77	-48.14	62.83	1529.14	1528.03	29.21	22.88	-154.77	87.55	12.72	7.46	PASS
1625.00†	1615.58	-63.37	82.71	1631.20	1628.94	22.58	36.64	-155.73	98.43	13.75	7.71	PASS
1719.36	1706.08	-79.61	103.91	1727.81	1723.90	14.88	52.63	-156.13	108.98	14.00	8.14	PASS
1725.00†	1711.46	-80.64	105.24	1733.60	1729.57	14.37	53.68	-156.14	109.61	14.02	8.18	PASS
1825.00†	1806.89	-98.81	128.96	1836.49	1829.93	4.56	74.06	-155.84	119.30	14.28	8.74	PASS
1925.00†	1902.32	-116.99	152.69	1939.80	1929.83	-6.86	97.78	-154.59	126.09	14.62	9.01	PASS
2025.00†	1997.75	-135.16	176.41	2039.92	2026.09	-18.81	122.60	-152.95	131.29	14.97	9.16	PASS
2125.00†	2093.18	-153.34	200.13	2139.71	2122.03	-30.73	147.35	-151.43	136.57	15.43	9.23	PASS
2225.00†	2188.61	-171.51	223.85	2239.51	2217.97	-42.65	172.10	-150.02	141.94	16.02	9.22	PASS
2325.00†	2284.04	-189.69	247.57	2339.31	2313.91	-54.56	196.85	-148.72	147.39	16.71	9.17	PASS
2425.00†	2379.48	-207.86	271.29	2439.11	2409.86	-66.48	221.60	-147.51	152.91	17.49	9.07	PASS
2525.00†	2474.91	-226.04	295.01	2538.90	2505.80	-78.40	246.35	-146.39	158.49	18.35	8.94	PASS
2625.00†	2570.34	-244.21	318.73	2638.70	2601.74	-90.32	271.10	-145.34	164.13	19.30	8.79	PASS
2725.00†	2665.77	-262.39	342.45	2738.50	2697.68	-102.24	295.85	-144.36	169.82	20.31	8.63	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 33C-30-M PWB Offset Wellpath: GOETZEL 33C-30-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#18 GOETZEL 33C-30-M (2217'FSL & 2053'FWL, SEC.29) Well: GOETZEL 33C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2825.00†	2761.20	-280.56	366.17	2838.30	2793.63	-114.15	320.60	-143.45	175.55	21.38	8.46	PASS
2925.00†	2856.63	-298.74	389.89	2938.09	2889.57	-126.07	345.35	-142.60	181.33	22.49	8.29	PASS
3025.00†	2952.06	-316.91	413.61	3037.89	2985.51	-137.99	370.09	-141.79	187.15	23.64	8.13	PASS
3125.00†	3047.49	-335.08	437.33	3137.69	3081.45	-149.91	394.84	-141.04	193.00	24.83	7.97	PASS
3225.00†	3142.92	-353.26	461.05	3237.49	3177.40	-161.83	419.59	-140.33	198.88	26.05	7.82	PASS
3325.00†	3238.35	-371.43	484.77	3337.28	3273.34	-173.74	444.34	-139.66	204.79	27.30	7.68	PASS
3425.00†	3333.78	-389.61	508.49	3437.08	3369.28	-185.66	469.09	-139.03	210.73	28.57	7.54	PASS
3525.00†	3429.21	-407.78	532.21	3536.88	3465.22	-197.58	493.84	-138.43	216.69	29.86	7.41	PASS
3625.00†	3524.64	-425.96	555.93	3636.68	3561.16	-209.50	518.59	-137.87	222.67	31.16	7.29	PASS
3725.00†	3620.07	-444.13	579.65	3736.47	3657.11	-221.42	543.34	-137.33	228.68	32.49	7.17	PASS
3825.00†	3715.51	-462.31	603.37	3836.27	3753.05	-233.33	568.09	-136.82	234.70	33.83	7.06	PASS
3925.00†	3810.94	-480.48	627.09	3936.07	3848.99	-245.25	592.84	-136.34	240.74	35.18	6.96	PASS
4025.00†	3906.37	-498.66	650.81	4035.87	3944.93	-257.17	617.59	-135.88	246.79	36.54	6.87	PASS
4125.00†	4001.80	-516.83	674.53	4135.66	4040.88	-269.09	642.34	-135.45	252.87	37.92	6.78	PASS
4225.00†	4097.23	-535.01	698.25	4235.46	4136.82	-281.01	667.09	-135.03	258.95	39.30	6.69	PASS
4325.00†	4192.66	-553.18	721.97	4335.26	4232.76	-292.92	691.84	-134.63	265.05	40.69	6.61	PASS
4425.00†	4288.09	-571.36	745.69	4435.06	4328.70	-304.84	716.59	-134.25	271.16	42.09	6.54	PASS
4525.00†	4383.52	-589.53	769.41	4534.85	4424.65	-316.76	741.34	-133.89	277.28	43.49	6.46	PASS
4625.00†	4478.95	-607.71	793.14	4634.65	4520.59	-328.68	766.09	-133.54	283.41	44.90	6.40	PASS
4725.00†	4574.38	-625.88	816.86	4734.45	4616.53	-340.59	790.84	-133.21	289.55	46.32	6.33	PASS
4825.00†	4669.81	-644.05	840.58	4834.25	4712.47	-352.51	815.59	-132.89	295.70	47.74	6.27	PASS
4925.00†	4765.24	-662.23	864.30	4934.04	4808.42	-364.43	840.34	-132.59	301.86	49.16	6.22	PASS
5025.00†	4860.67	-680.40	888.02	5033.84	4904.36	-376.35	865.09	-132.30	308.03	50.59	6.16	PASS
5125.00†	4956.11	-698.58	911.74	5133.64	5000.30	-388.27	889.84	-132.01	314.21	52.03	6.11	PASS
5225.00†	5051.54	-716.75	935.46	5233.44	5096.24	-400.18	914.59	-131.74	320.39	53.46	6.06	PASS
5325.00†	5146.97	-734.93	959.18	5333.23	5192.19	-412.10	939.34	-131.48	326.58	54.90	6.01	PASS
5425.00†	5242.40	-753.10	982.90	5433.03	5288.13	-424.02	964.09	-131.23	332.78	56.35	5.97	PASS
5525.00†	5337.83	-771.28	1006.62	5532.83	5384.07	-435.94	988.84	-130.99	338.98	57.79	5.93	PASS
5625.00†	5433.26	-789.45	1030.34	5632.63	5480.01	-447.86	1013.59	-130.76	345.19	59.24	5.89	PASS
5725.00†	5528.69	-807.63	1054.06	5732.42	5575.95	-459.77	1038.34	-130.53	351.40	60.69	5.85	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 33C-30-M PWB Offset Wellpath: GOETZEL 33C-30-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#18 GOETZEL 33C-30-M (2217'FSL & 2053'FWL, SEC.29) Well: GOETZEL 33C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5825.00†	5624.12	-825.80	1077.78	5832.22	5671.90	-471.69	1063.09	-130.32	357.62	62.14	5.81	PASS
5925.00†	5719.55	-843.98	1101.50	5932.02	5767.84	-483.61	1087.84	-130.11	363.84	63.60	5.77	PASS
6025.00†	5814.98	-862.15	1125.22	6031.81	5863.78	-495.53	1112.59	-129.90	370.07	65.06	5.74	PASS
6125.00†	5910.41	-880.33	1148.94	6131.61	5959.72	-507.45	1137.34	-129.71	376.31	66.51	5.71	PASS
6225.00†	6005.84	-898.50	1172.66	6231.41	6055.67	-519.36	1162.09	-129.52	382.54	67.98	5.68	PASS
6325.00†	6101.27	-916.68	1196.38	6331.21	6151.61	-531.28	1186.84	-129.34	388.78	69.44	5.65	PASS
6337.66	6113.36	-918.98	1199.39	6343.85	6163.76	-532.79	1189.97	-129.31	389.57	69.62	5.64	PASS
6425.00†	6197.68	-935.35	1214.89	6431.47	6248.17	-543.32	1210.95	-149.40	395.29	70.96	5.62	PASS
6525.00†	6295.51	-955.09	1219.69	6533.80	6348.66	-556.42	1224.48	174.59	402.22	72.29	5.61	PASS
6625.00†	6392.89	-975.53	1210.57	6637.44	6451.24	-570.55	1223.36	144.31	409.36	73.45	5.62	PASS
6725.00†	6487.92	-996.27	1187.72	6742.38	6553.73	-585.44	1207.04	128.48	416.53	74.59	5.63	PASS
6825.00†	6578.76	-1016.92	1151.57	6848.56	6653.80	-600.76	1175.34	120.30	423.54	75.82	5.63	PASS
6925.00†	6663.63	-1037.05	1102.83	6955.88	6749.00	-616.18	1128.48	115.60	430.21	77.57	5.59	PASS
7025.00†	6740.88	-1056.30	1042.46	7064.21	6836.87	-631.32	1067.13	112.62	436.38	79.88	5.50	PASS
7125.00†	6809.01	-1074.27	971.61	7173.39	6915.03	-645.80	992.46	110.58	441.88	82.92	5.37	PASS
7225.00†	6866.70	-1090.62	891.68	7283.18	6981.30	-659.24	906.09	109.08	446.58	86.71	5.18	PASS
7325.00†	6912.82	-1105.03	804.22	7393.35	7033.79	-671.27	810.10	107.92	450.36	91.20	4.97	PASS
7425.00†	6946.47	-1117.23	710.93	7503.63	7071.04	-681.57	706.93	106.99	453.14	96.23	4.74	PASS
7525.00†	6966.99	-1126.96	613.63	7613.75	7092.10	-689.87	599.28	106.22	454.87	101.61	4.50	PASS
7625.00†	6974.00	-1134.06	514.21	7721.22	7097.00	-695.93	492.17	105.66	455.59	107.16	4.27	PASS
7626.30	6974.00	-1134.13	512.92	7722.52	7097.00	-696.00	490.87	105.66	455.60	107.23	4.27	PASS
7725.00†	6974.00	-1139.74	414.37	7821.22	7097.00	-700.96	392.30	105.64	456.23	112.85	4.06	PASS
7825.00†	6974.00	-1145.42	314.54	7921.21	7097.00	-705.98	292.43	105.62	456.86	118.93	3.86	PASS
7925.00†	6974.00	-1151.10	214.70	8021.21	7097.00	-711.01	192.56	105.60	457.50	125.36	3.66	PASS
8025.00†	6974.00	-1156.78	114.86	8121.21	7097.00	-716.03	92.69	105.57	458.13	132.06	3.48	PASS
8125.00†	6974.00	-1162.47	15.02	8221.21	7097.00	-721.06	-7.19	105.55	458.76	139.02	3.31	PASS
8225.00†	6974.00	-1168.15	-84.82	8321.21	7097.00	-726.08	-107.06	105.53	459.40	146.18	3.15	PASS
8325.00†	6974.00	-1173.83	-184.66	8421.20	7097.00	-731.10	-206.93	105.51	460.03	153.52	3.01	PASS
8425.00†	6974.00	-1179.51	-284.49	8521.20	7097.00	-736.13	-306.80	105.49	460.67	161.03	2.87	PASS
8525.00†	6974.00	-1185.20	-384.33	8621.20	7097.00	-741.15	-406.67	105.46	461.30	168.66	2.74	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 33C-30-M PWB Offset Wellpath: GOETZEL 33C-30-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#18 GOETZEL 33C-30-M (2217'FSL & 2053'FWL, SEC.29) Well: GOETZEL 33C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8625.00†	6974.00	-1190.88	-484.17	8721.20	7097.00	-746.18	-506.54	105.44	461.94	176.42	2.62	PASS
8725.00†	6974.00	-1196.56	-584.01	8821.20	7097.00	-751.20	-606.41	105.42	462.57	184.27	2.52	PASS
8825.00†	6974.00	-1202.24	-683.85	8921.19	7097.00	-756.23	-706.29	105.40	463.21	192.22	2.41	PASS
8925.00†	6974.00	-1207.92	-783.69	9021.19	7097.00	-761.25	-806.16	105.38	463.84	200.25	2.32	PASS
9025.00†	6974.00	-1213.61	-883.52	9121.19	7097.00	-766.28	-906.03	105.36	464.48	208.35	2.23	PASS
9125.00†	6974.00	-1219.29	-983.36	9221.19	7097.00	-771.30	-1005.90	105.34	465.11	216.51	2.15	PASS
9225.00†	6974.00	-1224.97	-1083.20	9321.18	7097.00	-776.32	-1105.77	105.31	465.75	224.74	2.08	PASS
9325.00†	6974.00	-1230.65	-1183.04	9421.18	7097.00	-781.35	-1205.64	105.29	466.38	233.01	2.00	PASS
9425.00†	6974.00	-1236.33	-1282.88	9521.18	7097.00	-786.37	-1305.52	105.27	467.02	241.32	1.94	PASS
9525.00†	6974.00	-1242.02	-1382.72	9621.18	7097.00	-791.40	-1405.39	105.25	467.65	249.68	1.88	PASS
9625.00†	6974.00	-1247.70	-1482.56	9721.18	7097.00	-796.42	-1505.26	105.23	468.29	258.08	1.82	PASS
9725.00†	6974.00	-1253.38	-1582.39	9821.17	7097.00	-801.45	-1605.13	105.21	468.93	266.51	1.76	PASS
9825.00†	6974.00	-1259.06	-1682.23	9921.17	7097.00	-806.47	-1705.00	105.19	469.56	274.97	1.71	PASS
9925.00†	6974.00	-1264.75	-1782.07	10021.17	7097.00	-811.50	-1804.87	105.17	470.20	283.45	1.66	PASS
10025.00†	6974.00	-1270.43	-1881.91	10121.17	7097.00	-816.52	-1904.74	105.14	470.83	291.97	1.61	PASS
10125.00†	6974.00	-1276.11	-1981.75	10221.16	7097.00	-821.54	-2004.62	105.12	471.47	300.51	1.57	PASS
10225.00†	6974.00	-1281.79	-2081.59	10321.16	7097.00	-826.57	-2104.49	105.10	472.10	309.07	1.53	PASS
10325.00†	6974.00	-1287.47	-2181.42	10421.16	7097.00	-831.59	-2204.36	105.08	472.74	317.65	1.49	PASS
10425.00†	6974.00	-1293.16	-2281.26	10521.16	7097.00	-836.62	-2304.23	105.06	473.38	326.25	1.45	PASS
10525.00†	6974.00	-1298.84	-2381.10	10621.16	7097.00	-841.64	-2404.10	105.04	474.01	334.87	1.42	PASS
10625.00†	6974.00	-1304.52	-2480.94	10721.15	7097.00	-846.67	-2503.97	105.02	474.65	343.50	1.38	PASS
10725.00†	6974.00	-1310.20	-2580.78	10821.15	7097.00	-851.69	-2603.85	105.00	475.28	352.15	1.35	PASS
10825.00†	6974.00	-1315.88	-2680.62	10921.15	7097.00	-856.71	-2703.72	104.98	475.92	360.82	1.32	PASS
10925.00†	6974.00	-1321.57	-2780.46	11021.15	7097.00	-861.74	-2803.59	104.96	476.56	369.49	1.29	PASS
11025.00†	6974.00	-1327.25	-2880.29	11121.15	7097.00	-866.76	-2903.46	104.94	477.19	378.18	1.26	PASS
11125.00†	6974.00	-1332.93	-2980.13	11221.14	7097.00	-871.79	-3003.33	104.92	477.83	386.89	1.24	PASS
11225.00†	6974.00	-1338.61	-3079.97	11321.14	7097.00	-876.81	-3103.20	104.90	478.47	395.60	1.21	PASS
11325.00†	6974.00	-1344.30	-3179.81	11421.14	7097.00	-881.84	-3203.07	104.88	479.10	404.32	1.19	PASS
11425.00†	6974.00	-1349.98	-3279.65	11521.14	7097.00	-886.86	-3302.95	104.86	479.74	413.05	1.16	PASS
11525.00†	6974.00	-1355.66	-3379.49	11621.13	7097.00	-891.89	-3402.82	104.84	480.37	421.80	1.14	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 33C-30-M PWB Offset Wellpath: GOETZEL 33C-30-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#18 GOETZEL 33C-30-M (2217'FSL & 2053'FWL, SEC.29) Well: GOETZEL 33C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11625.00†	6974.00	-1361.34	-3479.32	11721.13	7097.00	-896.91	-3502.69	104.82	481.01	430.55	1.12	PASS
11725.00†	6974.00	-1367.02	-3579.16	11821.13	7097.00	-901.93	-3602.56	104.80	481.65	439.31	1.10	PASS
11825.00†	6974.00	-1372.71	-3679.00	11921.13	7097.00	-906.96	-3702.43	104.78	482.29	448.08	1.08	PASS
11925.00†	6974.00	-1378.39	-3778.84	12021.13	7097.00	-911.98	-3802.30	104.76	482.92	456.85	1.06	PASS
12025.00†	6974.00	-1384.07	-3878.68	12121.12	7097.00	-917.01	-3902.18	104.74	483.56	465.63	1.04	PASS
12125.00†	6974.00	-1389.75	-3978.52	12221.12	7097.00	-922.03	-4002.05	104.72	484.20	474.42	1.02	PASS
12225.00†	6974.00	-1395.44	-4078.35	12321.12	7097.00	-927.06	-4101.92	104.70	484.83	483.22	1.00	PASS
12325.00†	6974.00	-1401.12	-4178.19	12421.12	7097.00	-932.08	-4201.79	104.68	485.47	492.02	0.99	FAIL
12425.00†	6974.00	-1406.80	-4278.03	12521.11	7097.00	-937.11	-4301.66	104.66	486.11	500.83	0.97	FAIL
12525.00†	6974.00	-1412.48	-4377.87	12621.11	7097.00	-942.13	-4401.53	104.64	486.74	509.64	0.96	FAIL
12625.00†	6974.00	-1418.16	-4477.71	12721.11	7097.00	-947.15	-4501.40	104.62	487.38	518.46	0.94	FAIL
12725.00†	6974.00	-1423.85	-4577.55	12821.11	7097.00	-952.18	-4601.28	104.60	488.02	527.29	0.93	FAIL
12825.00†	6974.00	-1429.53	-4677.39	12921.11	7097.00	-957.20	-4701.15	104.58	488.66	536.12	0.91	FAIL
12925.00†	6974.00	-1435.21	-4777.22	13021.10	7097.00	-962.23	-4801.02	104.56	489.29	544.95	0.90	FAIL
13025.00†	6974.00	-1440.89	-4877.06	13121.10	7097.00	-967.25	-4900.89	104.54	489.93	553.79	0.88	FAIL
13125.00†	6974.00	-1446.57	-4976.90	13221.10	7097.00	-972.28	-5000.76	104.52	490.57	562.64	0.87	FAIL
13225.00†	6974.00	-1452.26	-5076.74	13321.10	7097.00	-977.30	-5100.63	104.50	491.21	571.49	0.86	FAIL
13325.00†	6974.00	-1457.94	-5176.58	13421.10	7097.00	-982.32	-5200.51	104.48	491.84	580.34	0.85	FAIL
13425.00†	6974.00	-1463.62	-5276.42	13521.09	7097.00	-987.35	-5300.38	104.46	492.48	589.20	0.84	FAIL
13525.00†	6974.00	-1469.30	-5376.25	13621.09	7097.00	-992.37	-5400.25	104.44	493.12	598.06	0.82	FAIL
13625.00†	6974.00	-1474.99	-5476.09	13721.09	7097.00	-997.40	-5500.12	104.43	493.76	606.93	0.81	FAIL
13725.00†	6974.00	-1480.67	-5575.93	13821.09	7097.00	-1002.42	-5599.99	104.41	494.39	615.80	0.80	FAIL
13825.00†	6974.00	-1486.35	-5675.77	13921.08	7097.00	-1007.45	-5699.86	104.39	495.03	624.67	0.79	FAIL
13925.00†	6974.00	-1492.03	-5775.61	14021.08	7097.00	-1012.47	-5799.73	104.37	495.67	633.55	0.78	FAIL
14025.00†	6974.00	-1497.71	-5875.45	14121.08	7097.00	-1017.50	-5899.61	104.35	496.31	642.43	0.77	FAIL
14125.00†	6974.00	-1503.40	-5975.29	14221.08	7097.00	-1022.52	-5999.48	104.33	496.95	651.31	0.76	FAIL
14225.00†	6974.00	-1509.08	-6075.12	14321.08	7097.00	-1027.54	-6099.35	104.31	497.58	660.19	0.75	FAIL
14325.00†	6974.00	-1514.76	-6174.96	14421.07	7097.00	-1032.57	-6199.22	104.29	498.22	669.08	0.74	FAIL
14425.00†	6974.00	-1520.44	-6274.80	14521.07	7097.00	-1037.59	-6299.09	104.27	498.86	677.98	0.74	FAIL
14525.00†	6974.00	-1526.12	-6374.64	14621.07	7097.00	-1042.62	-6398.96	104.26	499.50	686.87	0.73	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 33C-30-M PWB Offset Wellpath: GOETZEL 33C-30-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#18 GOETZEL 33C-30-M (2217'FSL & 2053'FWL, SEC.29) Well: GOETZEL 33C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14625.00†	6974.00	-1531.81	-6474.48	14721.07	7097.00	-1047.64	-6498.83	104.24	500.14	695.77	0.72	FAIL
14725.00†	6974.00	-1537.49	-6574.32	14821.07	7097.00	-1052.67	-6598.71	104.22	500.78	704.67	0.71	FAIL
14825.00†	6974.00	-1543.17	-6674.15	14921.06	7097.00	-1057.69	-6698.58	104.20	501.41	713.58	0.70	FAIL
14925.00†	6974.00	-1548.85	-6773.99	15021.06	7097.00	-1062.72	-6798.45	104.18	502.05	722.48	0.69	FAIL
15025.00†	6974.00	-1554.54	-6873.83	15121.06	7097.00	-1067.74	-6898.32	104.16	502.69	731.39	0.69	FAIL
15125.00†	6974.00	-1560.22	-6973.67	15221.06	7097.00	-1072.76	-6998.19	104.15	503.33	740.31	0.68	FAIL
15225.00†	6974.00	-1565.90	-7073.51	15321.05	7097.00	-1077.79	-7098.06	104.13	503.97	749.22	0.67	FAIL
15325.00†	6974.00	-1571.58	-7173.35	15421.05	7097.00	-1082.81	-7197.94	104.11	504.61	758.14	0.67	FAIL
15425.00†	6974.00	-1577.26	-7273.18	15521.05	7097.00	-1087.84	-7297.81	104.09	505.25	767.06	0.66	FAIL
15525.00†	6974.00	-1582.95	-7373.02	15621.05	7097.00	-1092.86	-7397.68	104.07	505.89	775.98	0.65	FAIL
15625.00†	6974.00	-1588.63	-7472.86	15721.05	7097.00	-1097.89	-7497.55	104.05	506.52	784.90	0.65	FAIL
15725.00†	6974.00	-1594.31	-7572.70	15821.04	7097.00	-1102.91	-7597.42	104.04	507.16	793.83	0.64	FAIL
15825.00†	6974.00	-1599.99	-7672.54	15921.04	7097.00	-1107.93	-7697.29	104.02	507.80	802.76	0.63	FAIL
15872.21†	6974.00	-1602.68	-7719.67	15961.54	7097.00	-1109.97	-7737.74	104.01	508.15	806.66	0.63	FAIL
15888.79	6974.00	-1603.62	-7736.23	15961.54	7097.00	-1109.97	-7737.74	104.01	508.74	806.04	0.63	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 33C-30-M PWB Offset Wellpath: GOETZEL 33C-30-M REV-A.0 PWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 33C-30-M PWB Offset Wellpath: GOETZEL 33C-30-M REV-A.0 PWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	25.00	1700.00	1675.00	25.00	1696.63	24.43	0.19	17.47	14.64
8.5in Open Hole	1700.00	15961.00	14261.00	1696.63	7097.00	17.47	14.64	-326.10	-2358.20



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

SURVEY PROGRAM - Offset Wellbore: GOETZEL 33C-30-M REV-A.0 PWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1700.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GOETZEL 33C-30-M PWB
1700.00	15961.54	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 33C-30-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 33C-30-M PWB Offset Wellpath: GOETZEL 33C-30-M REV-A.0 PWP	
MD Reference: PERCISION 562 (25") (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	25.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 34N-30C-M PWB Offset Wellpath: GOETZEL 34N-30C-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#23 GOETZEL 34N-30C-M (2117'FSL & 2053'FWL, SEC.29) Well: GOETZEL 34N-30C-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	25.00	25.00	-60.11	-0.54	-179.48	60.11	1.72	98.32	PASS
125.00†	125.00	0.00	0.00	125.00	125.00	-60.11	-0.54	-179.48	60.11	2.05	63.89	PASS
225.00†	225.00	0.00	0.00	225.00	225.00	-60.11	-0.54	-179.48	60.11	2.62	39.48	PASS
325.00†	325.00	0.00	0.00	325.00	325.00	-60.11	-0.54	-179.48	60.11	3.22	28.12	PASS
425.00†	425.00	0.00	0.00	425.00	425.00	-60.11	-0.54	-179.48	60.11	3.84	21.74	PASS
525.00†	525.00	0.00	0.00	523.78	523.77	-60.86	0.05	179.95	60.87	4.49	17.73	PASS
625.00†	625.00	0.00	0.00	621.99	621.88	-64.15	2.67	177.61	64.28	5.39	14.79	PASS
725.00†	725.00	0.00	0.00	719.79	719.39	-70.04	7.37	174.00	70.65	6.40	13.17	PASS
825.00†	825.00	0.00	0.00	816.97	815.96	-78.47	14.08	169.83	80.24	7.38	12.65	PASS
850.00	850.00	0.00	0.00	841.14	839.92	-80.97	16.07	168.78	83.16	7.62	12.64	PASS
925.00†	924.99	-0.60	0.78	913.44	911.42	-89.37	22.76	38.51	92.46	8.33	12.68	PASS
1025.00†	1024.89	-3.25	4.24	1009.46	1005.91	-102.71	33.38	35.89	105.37	9.40	12.60	PASS
1125.00†	1124.58	-8.02	10.47	1105.03	1099.34	-118.44	45.90	34.20	118.68	10.47	12.58	PASS
1225.00†	1223.93	-14.91	19.45	1200.16	1191.62	-136.51	60.29	33.17	132.28	11.49	12.66	PASS
1325.00†	1322.83	-23.90	31.19	1294.85	1282.66	-156.87	76.49	32.62	146.11	12.49	12.76	PASS
1425.00†	1421.15	-34.98	45.65	1389.10	1372.37	-179.45	94.48	32.42	160.11	13.46	12.89	PASS
1525.00†	1518.77	-48.14	62.83	1483.52	1461.26	-204.37	114.32	32.49	174.26	14.41	13.04	PASS
1625.00†	1615.58	-63.37	82.71	1582.72	1554.20	-231.47	135.90	33.01	186.70	15.33	13.06	PASS
1719.36	1706.08	-79.61	103.91	1676.56	1642.14	-257.12	156.32	33.97	195.82	15.73	13.15	PASS
1725.00†	1711.46	-80.64	105.24	1682.18	1647.40	-258.65	157.54	34.04	196.29	15.75	13.17	PASS
1825.00†	1806.89	-98.81	128.96	1781.73	1740.68	-285.86	179.20	35.32	204.68	15.77	13.55	PASS
1925.00†	1902.32	-116.99	152.69	1881.27	1833.95	-313.06	200.86	36.50	213.16	16.03	13.87	PASS
2025.00†	1997.75	-135.16	176.41	1980.82	1927.23	-340.26	222.52	37.59	221.73	16.41	14.08	PASS
2125.00†	2093.18	-153.34	200.13	2080.37	2020.51	-367.47	244.18	38.60	230.38	16.90	14.18	PASS
2225.00†	2188.61	-171.51	223.85	2179.92	2113.78	-394.67	265.84	39.53	239.08	17.50	14.19	PASS
2325.00†	2284.04	-189.69	247.57	2279.46	2207.06	-421.87	287.50	40.40	247.85	18.20	14.13	PASS
2425.00†	2379.48	-207.86	271.29	2379.01	2300.34	-449.07	309.16	41.21	256.67	18.99	14.00	PASS
2525.00†	2474.91	-226.04	295.01	2478.56	2393.61	-476.28	330.81	41.97	265.54	19.85	13.84	PASS
2625.00†	2570.34	-244.21	318.73	2578.10	2486.89	-503.48	352.47	42.67	274.45	20.78	13.64	PASS
2725.00†	2665.77	-262.39	342.45	2677.65	2580.16	-530.68	374.13	43.33	283.40	21.77	13.42	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 34N-30C-M PWB Offset Wellpath: GOETZEL 34N-30C-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#23 GOETZEL 34N-30C-M (2117'FSL & 2053'FWL, SEC.29) Well: GOETZEL 34N-30C-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2825.00†	2761.20	-280.56	366.17	2777.20	2673.44	-557.89	395.79	43.96	292.38	22.81	13.20	PASS
2925.00†	2856.63	-298.74	389.89	2876.74	2766.72	-585.09	417.45	44.54	301.40	23.90	12.97	PASS
3025.00†	2952.06	-316.91	413.61	2976.29	2859.99	-612.29	439.11	45.09	310.45	25.03	12.74	PASS
3125.00†	3047.49	-335.08	437.33	3075.84	2953.27	-639.49	460.77	45.61	319.52	26.19	12.51	PASS
3225.00†	3142.92	-353.26	461.05	3175.39	3046.55	-666.70	482.43	46.10	328.62	27.39	12.29	PASS
3325.00†	3238.35	-371.43	484.77	3274.93	3139.82	-693.90	504.09	46.56	337.74	28.61	12.08	PASS
3425.00†	3333.78	-389.61	508.49	3374.48	3233.10	-721.10	525.75	47.00	346.88	29.86	11.88	PASS
3525.00†	3429.21	-407.78	532.21	3474.03	3326.38	-748.31	547.41	47.42	356.04	31.13	11.68	PASS
3625.00†	3524.64	-425.96	555.93	3573.57	3419.65	-775.51	569.07	47.82	365.21	32.41	11.50	PASS
3725.00†	3620.07	-444.13	579.65	3673.12	3512.93	-802.71	590.73	48.19	374.41	33.72	11.32	PASS
3825.00†	3715.51	-462.31	603.37	3772.67	3606.21	-829.91	612.38	48.55	383.62	35.04	11.15	PASS
3925.00†	3810.94	-480.48	627.09	3872.21	3699.48	-857.12	634.04	48.89	392.84	36.37	11.00	PASS
4025.00†	3906.37	-498.66	650.81	3971.76	3792.76	-884.32	655.70	49.22	402.08	37.72	10.85	PASS
4125.00†	4001.80	-516.83	674.53	4071.31	3886.03	-911.52	677.36	49.53	411.33	39.07	10.70	PASS
4225.00†	4097.23	-535.01	698.25	4170.86	3979.31	-938.73	699.02	49.83	420.59	40.44	10.57	PASS
4325.00†	4192.66	-553.18	721.97	4270.40	4072.59	-965.93	720.68	50.11	429.86	41.82	10.44	PASS
4425.00†	4288.09	-571.36	745.69	4369.95	4165.86	-993.13	742.34	50.39	439.14	43.20	10.32	PASS
4525.00†	4383.52	-589.53	769.41	4469.50	4259.14	-1020.33	764.00	50.65	448.43	44.59	10.20	PASS
4625.00†	4478.95	-607.71	793.14	4569.04	4352.42	-1047.54	785.66	50.90	457.73	45.99	10.09	PASS
4725.00†	4574.38	-625.88	816.86	4668.59	4445.69	-1074.74	807.32	51.14	467.04	47.40	9.99	PASS
4825.00†	4669.81	-644.05	840.58	4768.14	4538.97	-1101.94	828.98	51.37	476.36	48.81	9.89	PASS
4925.00†	4765.24	-662.23	864.30	4867.68	4632.25	-1129.15	850.64	51.60	485.68	50.22	9.79	PASS
5025.00†	4860.67	-680.40	888.02	4967.23	4725.52	-1156.35	872.30	51.81	495.01	51.64	9.70	PASS
5125.00†	4956.11	-698.58	911.74	5066.78	4818.80	-1183.55	893.96	52.02	504.35	53.07	9.62	PASS
5225.00†	5051.54	-716.75	935.46	5166.33	4912.07	-1210.75	915.61	52.21	513.69	54.50	9.54	PASS
5325.00†	5146.97	-734.93	959.18	5265.87	5005.35	-1237.96	937.27	52.41	523.04	55.93	9.46	PASS
5425.00†	5242.40	-753.10	982.90	5365.42	5098.63	-1265.16	958.93	52.59	532.40	57.37	9.38	PASS
5525.00†	5337.83	-771.28	1006.62	5464.97	5191.90	-1292.36	980.59	52.77	541.76	58.81	9.31	PASS
5625.00†	5433.26	-789.45	1030.34	5564.51	5285.18	-1319.56	1002.25	52.94	551.12	60.26	9.24	PASS
5725.00†	5528.69	-807.63	1054.06	5664.06	5378.46	-1346.77	1023.91	53.11	560.49	61.71	9.18	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 34N-30C-M PWB Offset Wellpath: GOETZEL 34N-30C-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#23 GOETZEL 34N-30C-M (2117'FSL & 2053'FWL, SEC.29) Well: GOETZEL 34N-30C-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5825.00†	5624.12	-825.80	1077.78	5763.61	5471.73	-1373.97	1045.57	53.27	569.87	63.15	9.11	PASS
5925.00†	5719.55	-843.98	1101.50	5863.15	5565.01	-1401.17	1067.23	53.43	579.25	64.61	9.05	PASS
6025.00†	5814.98	-862.15	1125.22	5962.70	5658.29	-1428.38	1088.89	53.58	588.63	66.06	9.00	PASS
6125.00†	5910.41	-880.33	1148.94	6062.25	5751.56	-1455.58	1110.55	53.72	598.02	67.52	8.94	PASS
6225.00†	6005.84	-898.50	1172.66	6161.80	5844.84	-1482.78	1132.21	53.87	607.41	68.98	8.89	PASS
6325.00†	6101.27	-916.68	1196.38	6261.34	5938.12	-1509.98	1153.87	54.00	616.80	70.44	8.84	PASS
6337.66	6113.36	-918.98	1199.39	6273.95	5949.93	-1513.43	1156.61	54.02	617.99	70.63	8.83	PASS
6425.00†	6197.68	-935.35	1214.89	6360.80	6031.31	-1537.16	1175.51	33.81	625.63	71.67	8.81	PASS
6525.00†	6295.51	-955.09	1219.69	6458.91	6123.24	-1563.97	1196.85	-3.85	633.20	72.37	8.83	PASS
6625.00†	6392.89	-975.53	1210.57	6550.85	6210.22	-1589.57	1211.74	-36.23	640.64	72.71	8.89	PASS
6725.00†	6487.92	-996.27	1187.72	6645.39	6300.64	-1616.73	1214.85	-54.09	648.67	73.12	8.95	PASS
6825.00†	6578.76	-1016.92	1151.57	6743.32	6393.72	-1645.26	1204.96	-64.21	657.19	73.80	8.98	PASS
6925.00†	6663.63	-1037.05	1102.83	6845.11	6487.98	-1674.78	1180.72	-70.75	666.04	74.91	8.97	PASS
7025.00†	6740.88	-1056.30	1042.46	6951.22	6581.52	-1704.76	1140.85	-75.44	674.97	76.45	8.90	PASS
7125.00†	6809.01	-1074.27	971.61	7062.03	6671.87	-1734.52	1084.22	-79.04	683.69	78.96	8.73	PASS
7225.00†	6866.70	-1090.62	891.68	7177.85	6755.99	-1763.17	1010.15	-81.90	691.82	82.16	8.48	PASS
7325.00†	6912.82	-1105.03	804.22	7298.75	6830.23	-1789.60	918.64	-84.22	698.96	86.36	8.15	PASS
7425.00†	6946.47	-1117.23	710.93	7424.54	6890.51	-1812.53	810.84	-86.05	704.67	91.65	7.74	PASS
7525.00†	6966.99	-1126.96	613.63	7554.65	6932.74	-1830.62	689.30	-87.43	708.54	98.01	7.27	PASS
7625.00†	6974.00	-1134.06	514.21	7688.10	6953.36	-1842.61	558.19	-88.34	710.21	105.08	6.80	PASS
7626.30	6974.00	-1134.13	512.92	7689.85	6953.47	-1842.72	556.45	-88.34	710.22	105.18	6.79	PASS
7725.00†	6974.00	-1139.74	414.37	7800.96	6955.00	-1848.05	445.50	-88.47	709.25	111.47	6.40	PASS
7825.00†	6974.00	-1145.42	314.54	7900.95	6955.00	-1852.44	345.61	-88.46	707.96	117.63	6.05	PASS
7925.00†	6974.00	-1151.10	214.70	8000.94	6955.00	-1856.83	245.71	-88.46	706.67	124.16	5.72	PASS
8025.00†	6974.00	-1156.78	114.86	8100.93	6955.00	-1861.22	145.82	-88.46	705.37	131.01	5.41	PASS
8125.00†	6974.00	-1162.47	15.02	8200.92	6955.00	-1865.61	45.92	-88.45	704.08	138.13	5.12	PASS
8225.00†	6974.00	-1168.15	-84.82	8300.92	6955.00	-1870.00	-53.97	-88.45	702.79	145.49	4.85	PASS
8325.00†	6974.00	-1173.83	-184.66	8400.91	6955.00	-1874.39	-153.87	-88.45	701.50	153.04	4.60	PASS
8425.00†	6974.00	-1179.51	-284.49	8500.90	6955.00	-1878.78	-253.76	-88.45	700.20	160.77	4.37	PASS
8525.00†	6974.00	-1185.20	-384.33	8600.89	6955.00	-1883.17	-353.66	-88.44	698.91	168.64	4.16	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 34N-30C-M PWB Offset Wellpath: GOETZEL 34N-30C-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#23 GOETZEL 34N-30C-M (2117'FSL & 2053'FWL, SEC.29) Well: GOETZEL 34N-30C-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8625.00†	6974.00	-1190.88	-484.17	8700.88	6955.00	-1887.56	-453.55	-88.44	697.62	176.64	3.96	PASS
8725.00†	6974.00	-1196.56	-584.01	8800.87	6955.00	-1891.95	-553.45	-88.44	696.32	184.76	3.78	PASS
8825.00†	6974.00	-1202.24	-683.85	8900.87	6955.00	-1896.34	-653.34	-88.43	695.03	192.96	3.61	PASS
8925.00†	6974.00	-1207.92	-783.69	9000.86	6955.00	-1900.73	-753.24	-88.43	693.74	201.26	3.46	PASS
9025.00†	6974.00	-1213.61	-883.52	9100.85	6955.00	-1905.12	-853.14	-88.43	692.45	209.63	3.31	PASS
9125.00†	6974.00	-1219.29	-983.36	9200.84	6955.00	-1909.51	-953.03	-88.43	691.15	218.06	3.18	PASS
9225.00†	6974.00	-1224.97	-1083.20	9300.83	6955.00	-1913.90	-1052.93	-88.42	689.86	226.55	3.05	PASS
9325.00†	6974.00	-1230.65	-1183.04	9400.82	6955.00	-1918.29	-1152.82	-88.42	688.57	235.10	2.93	PASS
9425.00†	6974.00	-1236.33	-1282.88	9500.82	6955.00	-1922.68	-1252.72	-88.42	687.27	243.69	2.83	PASS
9525.00†	6974.00	-1242.02	-1382.72	9600.81	6955.00	-1927.07	-1352.61	-88.41	685.98	252.32	2.72	PASS
9625.00†	6974.00	-1247.70	-1482.56	9700.80	6955.00	-1931.46	-1452.51	-88.41	684.69	261.00	2.63	PASS
9725.00†	6974.00	-1253.38	-1582.39	9800.79	6955.00	-1935.85	-1552.40	-88.41	683.40	269.70	2.54	PASS
9825.00†	6974.00	-1259.06	-1682.23	9900.78	6955.00	-1940.24	-1652.30	-88.40	682.10	278.44	2.45	PASS
9925.00†	6974.00	-1264.75	-1782.07	10000.77	6955.00	-1944.63	-1752.19	-88.40	680.81	287.20	2.37	PASS
10025.00†	6974.00	-1270.43	-1881.91	10100.77	6955.00	-1949.02	-1852.09	-88.40	679.52	295.99	2.30	PASS
10125.00†	6974.00	-1276.11	-1981.75	10200.76	6955.00	-1953.41	-1951.98	-88.40	678.22	304.81	2.23	PASS
10225.00†	6974.00	-1281.79	-2081.59	10300.75	6955.00	-1957.80	-2051.88	-88.39	676.93	313.64	2.16	PASS
10325.00†	6974.00	-1287.47	-2181.42	10400.74	6955.00	-1962.19	-2151.77	-88.39	675.64	322.50	2.10	PASS
10425.00†	6974.00	-1293.16	-2281.26	10500.73	6955.00	-1966.58	-2251.67	-88.39	674.35	331.37	2.04	PASS
10525.00†	6974.00	-1298.84	-2381.10	10600.72	6955.00	-1970.97	-2351.56	-88.38	673.05	340.26	1.98	PASS
10625.00†	6974.00	-1304.52	-2480.94	10700.72	6955.00	-1975.36	-2451.46	-88.38	671.76	349.16	1.93	PASS
10725.00†	6974.00	-1310.20	-2580.78	10800.71	6955.00	-1979.75	-2551.35	-88.38	670.47	358.08	1.87	PASS
10825.00†	6974.00	-1315.88	-2680.62	10900.70	6955.00	-1984.14	-2651.25	-88.37	669.17	367.01	1.82	PASS
10925.00†	6974.00	-1321.57	-2780.46	11000.69	6955.00	-1988.54	-2751.14	-88.37	667.88	375.96	1.78	PASS
11025.00†	6974.00	-1327.25	-2880.29	11100.68	6955.00	-1992.93	-2851.04	-88.37	666.59	384.91	1.73	PASS
11125.00†	6974.00	-1332.93	-2980.13	11200.67	6955.00	-1997.32	-2950.93	-88.36	665.30	393.88	1.69	PASS
11225.00†	6974.00	-1338.61	-3079.97	11300.66	6955.00	-2001.71	-3050.83	-88.36	664.00	402.86	1.65	PASS
11325.00†	6974.00	-1344.30	-3179.81	11400.66	6955.00	-2006.10	-3150.73	-88.36	662.71	411.84	1.61	PASS
11425.00†	6974.00	-1349.98	-3279.65	11500.65	6955.00	-2010.49	-3250.62	-88.35	661.42	420.84	1.57	PASS
11525.00†	6974.00	-1355.66	-3379.49	11600.64	6955.00	-2014.88	-3350.52	-88.35	660.13	429.84	1.54	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 34N-30C-M PWB Offset Wellpath: GOETZEL 34N-30C-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#23 GOETZEL 34N-30C-M (2117'FSL & 2053'FWL, SEC.29) Well: GOETZEL 34N-30C-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11625.00†	6974.00	-1361.34	-3479.32	11700.63	6955.00	-2019.27	-3450.41	-88.35	658.83	438.85	1.50	PASS
11725.00†	6974.00	-1367.02	-3579.16	11800.62	6955.00	-2023.66	-3550.31	-88.34	657.54	447.86	1.47	PASS
11825.00†	6974.00	-1372.71	-3679.00	11900.61	6955.00	-2028.05	-3650.20	-88.34	656.25	456.89	1.44	PASS
11925.00†	6974.00	-1378.39	-3778.84	12000.61	6955.00	-2032.44	-3750.10	-88.34	654.95	465.92	1.41	PASS
12025.00†	6974.00	-1384.07	-3878.68	12100.60	6955.00	-2036.83	-3849.99	-88.33	653.66	474.95	1.38	PASS
12125.00†	6974.00	-1389.75	-3978.52	12200.59	6955.00	-2041.22	-3949.89	-88.33	652.37	483.99	1.35	PASS
12225.00†	6974.00	-1395.44	-4078.35	12300.58	6955.00	-2045.61	-4049.78	-88.33	651.08	493.04	1.32	PASS
12325.00†	6974.00	-1401.12	-4178.19	12400.57	6955.00	-2050.00	-4149.68	-88.32	649.78	502.09	1.29	PASS
12425.00†	6974.00	-1406.80	-4278.03	12500.56	6955.00	-2054.39	-4249.57	-88.32	648.49	511.15	1.27	PASS
12525.00†	6974.00	-1412.48	-4377.87	12600.56	6955.00	-2058.78	-4349.47	-88.32	647.20	520.21	1.24	PASS
12625.00†	6974.00	-1418.16	-4477.71	12700.55	6955.00	-2063.17	-4449.36	-88.31	645.90	529.27	1.22	PASS
12725.00†	6974.00	-1423.85	-4577.55	12800.54	6955.00	-2067.56	-4549.26	-88.31	644.61	538.34	1.20	PASS
12825.00†	6974.00	-1429.53	-4677.39	12900.53	6955.00	-2071.95	-4649.15	-88.31	643.32	547.42	1.18	PASS
12925.00†	6974.00	-1435.21	-4777.22	13000.52	6955.00	-2076.34	-4749.05	-88.30	642.03	556.49	1.15	PASS
13025.00†	6974.00	-1440.89	-4877.06	13100.51	6955.00	-2080.73	-4848.94	-88.30	640.73	565.57	1.13	PASS
13125.00†	6974.00	-1446.57	-4976.90	13200.51	6955.00	-2085.12	-4948.84	-88.30	639.44	574.66	1.11	PASS
13225.00†	6974.00	-1452.26	-5076.74	13300.50	6955.00	-2089.51	-5048.73	-88.29	638.15	583.74	1.09	PASS
13325.00†	6974.00	-1457.94	-5176.58	13400.49	6955.00	-2093.90	-5148.63	-88.29	636.85	592.83	1.07	PASS
13425.00†	6974.00	-1463.62	-5276.42	13500.48	6955.00	-2098.29	-5248.52	-88.29	635.56	601.92	1.06	PASS
13525.00†	6974.00	-1469.30	-5376.25	13600.47	6955.00	-2102.68	-5348.42	-88.28	634.27	611.02	1.04	PASS
13625.00†	6974.00	-1474.99	-5476.09	13700.46	6955.00	-2107.07	-5448.32	-88.28	632.98	620.12	1.02	PASS
13725.00†	6974.00	-1480.67	-5575.93	13800.46	6955.00	-2111.46	-5548.21	-88.28	631.68	629.22	1.00	PASS
13825.00†	6974.00	-1486.35	-5675.77	13900.45	6955.00	-2115.85	-5648.11	-88.27	630.39	638.32	0.99	FAIL
13925.00†	6974.00	-1492.03	-5775.61	14000.44	6955.00	-2120.24	-5748.00	-88.27	629.10	647.42	0.97	FAIL
14025.00†	6974.00	-1497.71	-5875.45	14100.43	6955.00	-2124.63	-5847.90	-88.27	627.81	656.53	0.96	FAIL
14125.00†	6974.00	-1503.40	-5975.29	14200.42	6955.00	-2129.02	-5947.79	-88.26	626.51	665.64	0.94	FAIL
14225.00†	6974.00	-1509.08	-6075.12	14300.41	6955.00	-2133.41	-6047.69	-88.26	625.22	674.75	0.93	FAIL
14325.00†	6974.00	-1514.76	-6174.96	14400.41	6955.00	-2137.80	-6147.58	-88.26	623.93	683.86	0.91	FAIL
14425.00†	6974.00	-1520.44	-6274.80	14500.40	6955.00	-2142.19	-6247.48	-88.25	622.63	692.98	0.90	FAIL
14525.00†	6974.00	-1526.12	-6374.64	14600.39	6955.00	-2146.58	-6347.37	-88.25	621.34	702.10	0.88	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 34N-30C-M PWB Offset Wellpath: GOETZEL 34N-30C-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#23 GOETZEL 34N-30C-M (2117'FSL & 2053'FWL, SEC.29) Well: GOETZEL 34N-30C-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14625.00†	6974.00	-1531.81	-6474.48	14700.38	6955.00	-2150.97	-6447.27	-88.24	620.05	711.21	0.87	FAIL
14725.00†	6974.00	-1537.49	-6574.32	14800.37	6955.00	-2155.36	-6547.16	-88.24	618.76	720.33	0.86	FAIL
14825.00†	6974.00	-1543.17	-6674.15	14900.36	6955.00	-2159.75	-6647.06	-88.24	617.46	729.46	0.85	FAIL
14925.00†	6974.00	-1548.85	-6773.99	15000.36	6955.00	-2164.14	-6746.95	-88.23	616.17	738.58	0.83	FAIL
15025.00†	6974.00	-1554.54	-6873.83	15100.35	6955.00	-2168.53	-6846.85	-88.23	614.88	747.70	0.82	FAIL
15125.00†	6974.00	-1560.22	-6973.67	15200.34	6955.00	-2172.92	-6946.74	-88.23	613.59	756.83	0.81	FAIL
15225.00†	6974.00	-1565.90	-7073.51	15300.33	6955.00	-2177.31	-7046.64	-88.22	612.29	765.96	0.80	FAIL
15325.00†	6974.00	-1571.58	-7173.35	15400.32	6955.00	-2181.70	-7146.53	-88.22	611.00	775.08	0.79	FAIL
15425.00†	6974.00	-1577.26	-7273.18	15500.31	6955.00	-2186.09	-7246.43	-88.21	609.71	784.21	0.78	FAIL
15525.00†	6974.00	-1582.95	-7373.02	15600.31	6955.00	-2190.48	-7346.32	-88.21	608.41	793.34	0.77	FAIL
15565.87†	6974.00	-1585.27	-7413.83	15628.90	6955.00	-2191.73	-7374.89	-88.21	608.01	796.23	0.76	FAIL
15625.00†	6974.00	-1588.63	-7472.86	15628.90	6955.00	-2191.73	-7374.89	-88.21	611.31	793.11	0.77	FAIL
15725.00†	6974.00	-1594.31	-7572.70	15628.90	6955.00	-2191.73	-7374.89	-88.21	629.61	772.19	0.82	FAIL
15825.00†	6974.00	-1599.99	-7672.54	15628.90	6955.00	-2191.73	-7374.89	-88.21	662.66	735.97	0.90	FAIL
15888.79	6974.00	-1603.62	-7736.23	15628.90	6955.00	-2191.73	-7374.89	-88.21	690.51	707.11	0.98	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 34N-30C-M PWB Offset Wellpath: GOETZEL 34N-30C-M REV-A.0 PWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 34N-30C-M PWB Offset Wellpath: GOETZEL 34N-30C-M REV-A.0 PWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	25.00	1700.00	1675.00	25.00	1664.10	-36.64	-0.33	-98.64	49.04
8.5in Open Hole	1700.00	15628.00	13928.00	1664.10	6955.00	-98.64	49.04	-686.35	-2247.76



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GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

SURVEY PROGRAM - Offset Wellbore: GOETZEL 34N-30C-M REV-A.0 PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1700.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GOETZEL 34N-30C-M PWB
1700.00	15628.90	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 34N-30C-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 34N-30C-M PWB Offset Wellpath: GOETZEL 34N-30C-M REV-A.0 PWP

MD Reference: H&P 562 (25') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	25.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 12N-30B-M PWB Offset Wellpath: GOETZEL 12N-30B-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#17 GOETZEL 12N-30B-M (2237'FSL & 2053'FWL, SEC.29) Well: GOETZEL 12N-30B-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	25.00	25.00	60.11	0.31	0.30	60.11	1.72	98.31	PASS
125.00†	125.00	0.00	0.00	125.00	125.00	60.11	0.31	0.30	60.11	2.04	64.17	PASS
225.00†	225.00	0.00	0.00	225.00	225.00	60.11	0.31	0.30	60.11	2.61	39.68	PASS
325.00†	325.00	0.00	0.00	325.00	325.00	60.11	0.31	0.30	60.11	3.21	28.24	PASS
425.00†	425.00	0.00	0.00	425.00	425.00	60.11	0.31	0.30	60.11	3.83	21.82	PASS
525.00†	525.00	0.00	0.00	525.00	525.00	60.11	0.31	0.30	60.11	4.45	17.75	PASS
625.00†	625.00	0.00	0.00	625.00	625.00	60.11	0.31	0.30	60.11	5.07	14.95	PASS
725.00†	725.00	0.00	0.00	725.00	725.00	60.11	0.31	0.30	60.11	5.69	12.91	PASS
825.00†	825.00	0.00	0.00	825.00	825.00	60.11	0.31	0.30	60.11	6.32	11.36	PASS
850.00	850.00	0.00	0.00	850.00	850.00	60.11	0.31	0.30	60.11	6.47	11.03	PASS
925.00†	924.99	-0.60	0.78	924.99	924.99	60.11	0.31	-127.89	60.71	6.96	10.22	PASS
1025.00†	1024.89	-3.25	4.24	1024.89	1024.89	60.11	0.31	-130.96	63.48	7.71	9.47	PASS
1125.00†	1124.58	-8.02	10.47	1124.58	1124.58	60.11	0.31	-135.81	68.89	8.57	9.10	PASS
1225.00†	1223.93	-14.91	19.45	1223.93	1223.93	60.11	0.31	-141.54	77.42	9.47	9.14	PASS
1325.00†	1322.83	-23.90	31.19	1323.28	1323.28	60.08	0.40	-147.26	89.44	10.39	9.54	PASS
1425.00†	1421.15	-34.98	45.65	1424.23	1424.19	59.27	2.87	-151.55	103.55	11.33	10.04	PASS
1525.00†	1518.77	-48.14	62.83	1525.67	1525.44	57.32	8.74	-154.32	118.71	12.37	10.46	PASS
1625.00†	1615.58	-63.37	82.71	1627.58	1626.87	54.24	18.07	-156.00	134.67	13.39	10.89	PASS
1719.36	1706.08	-79.61	103.91	1724.16	1722.62	50.27	30.07	-156.88	150.32	13.65	11.56	PASS
1725.00†	1711.46	-80.64	105.24	1729.95	1728.34	50.00	30.88	-156.92	151.26	13.68	11.61	PASS
1825.00†	1806.89	-98.81	128.96	1833.04	1829.97	44.58	47.26	-157.13	166.65	13.94	12.54	PASS
1925.00†	1902.32	-116.99	152.69	1936.89	1931.66	37.97	67.25	-156.51	179.37	14.28	13.17	PASS
2025.00†	1997.75	-135.16	176.41	2041.24	2032.99	30.17	90.85	-155.19	189.46	14.74	13.46	PASS
2125.00†	2093.18	-153.34	200.13	2144.24	2132.12	21.38	117.41	-153.30	197.19	15.24	13.52	PASS
2225.00†	2188.61	-171.51	223.85	2243.76	2227.65	12.62	143.89	-151.43	204.50	15.81	13.49	PASS
2325.00†	2284.04	-189.69	247.57	2343.28	2323.18	3.86	170.37	-149.69	212.02	16.50	13.38	PASS
2425.00†	2379.48	-207.86	271.29	2442.80	2418.71	-4.89	196.84	-148.08	219.72	17.30	13.20	PASS
2525.00†	2474.91	-226.04	295.01	2542.31	2514.24	-13.65	223.32	-146.57	227.58	18.19	12.98	PASS
2625.00†	2570.34	-244.21	318.73	2641.83	2609.77	-22.41	249.80	-145.16	235.59	19.15	12.74	PASS
2725.00†	2665.77	-262.39	342.45	2741.35	2705.30	-31.17	276.27	-143.85	243.73	20.20	12.47	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 12N-30B-M PWB Offset Wellpath: GOETZEL 12N-30B-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#17 GOETZEL 12N-30B-M (2237'FSL & 2053'FWL, SEC.29) Well: GOETZEL 12N-30B-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2825.00†	2761.20	-280.56	366.17	2840.87	2800.83	-39.92	302.75	-142.62	251.99	21.32	12.19	PASS
2925.00†	2856.63	-298.74	389.89	2940.38	2896.37	-48.68	329.23	-141.47	260.36	22.48	11.92	PASS
3025.00†	2952.06	-316.91	413.61	3039.90	2991.90	-57.44	355.70	-140.40	268.82	23.69	11.67	PASS
3125.00†	3047.49	-335.08	437.33	3139.42	3087.43	-66.20	382.18	-139.39	277.38	24.94	11.42	PASS
3225.00†	3142.92	-353.26	461.05	3238.94	3182.96	-74.95	408.65	-138.43	286.01	26.22	11.18	PASS
3325.00†	3238.35	-371.43	484.77	3338.45	3278.49	-83.71	435.13	-137.54	294.72	27.53	10.96	PASS
3425.00†	3333.78	-389.61	508.49	3437.97	3374.02	-92.47	461.61	-136.70	303.49	28.86	10.76	PASS
3525.00†	3429.21	-407.78	532.21	3537.49	3469.55	-101.23	488.08	-135.90	312.33	30.22	10.56	PASS
3625.00†	3524.64	-425.96	555.93	3637.01	3565.08	-109.98	514.56	-135.15	321.23	31.59	10.38	PASS
3725.00†	3620.07	-444.13	579.65	3736.52	3660.61	-118.74	541.04	-134.44	330.17	32.99	10.21	PASS
3825.00†	3715.51	-462.31	603.37	3836.04	3756.14	-127.50	567.51	-133.76	339.17	34.39	10.05	PASS
3925.00†	3810.94	-480.48	627.09	3935.56	3851.67	-136.26	593.99	-133.12	348.20	35.81	9.90	PASS
4025.00†	3906.37	-498.66	650.81	4035.07	3947.20	-145.01	620.47	-132.52	357.28	37.24	9.76	PASS
4125.00†	4001.80	-516.83	674.53	4134.59	4042.73	-153.77	646.94	-131.94	366.40	38.68	9.63	PASS
4225.00†	4097.23	-535.01	698.25	4234.11	4138.26	-162.53	673.42	-131.39	375.55	40.13	9.51	PASS
4325.00†	4192.66	-553.18	721.97	4333.63	4233.79	-171.29	699.90	-130.87	384.74	41.59	9.39	PASS
4425.00†	4288.09	-571.36	745.69	4433.14	4329.32	-180.04	726.37	-130.37	393.95	43.06	9.29	PASS
4525.00†	4383.52	-589.53	769.41	4532.66	4424.85	-188.80	752.85	-129.89	403.20	44.53	9.18	PASS
4625.00†	4478.95	-607.71	793.14	4632.18	4520.38	-197.56	779.32	-129.44	412.47	46.01	9.09	PASS
4725.00†	4574.38	-625.88	816.86	4731.70	4615.91	-206.32	805.80	-129.01	421.76	47.49	9.00	PASS
4825.00†	4669.81	-644.05	840.58	4831.21	4711.44	-215.07	832.28	-128.59	431.08	48.98	8.92	PASS
4925.00†	4765.24	-662.23	864.30	4930.73	4806.97	-223.83	858.75	-128.19	440.42	50.47	8.84	PASS
5025.00†	4860.67	-680.40	888.02	5030.25	4902.50	-232.59	885.23	-127.81	449.77	51.97	8.76	PASS
5125.00†	4956.11	-698.58	911.74	5129.77	4998.03	-241.35	911.71	-127.45	459.15	53.46	8.69	PASS
5225.00†	5051.54	-716.75	935.46	5229.28	5093.56	-250.10	938.18	-127.09	468.55	54.97	8.62	PASS
5325.00†	5146.97	-734.93	959.18	5328.80	5189.09	-258.86	964.66	-126.76	477.96	56.47	8.56	PASS
5425.00†	5242.40	-753.10	982.90	5428.32	5284.62	-267.62	991.14	-126.43	487.39	57.98	8.50	PASS
5525.00†	5337.83	-771.28	1006.62	5527.84	5380.15	-276.37	1017.61	-126.12	496.83	59.49	8.44	PASS
5625.00†	5433.26	-789.45	1030.34	5627.35	5475.68	-285.13	1044.09	-125.82	506.29	61.00	8.39	PASS
5725.00†	5528.69	-807.63	1054.06	5726.87	5571.21	-293.89	1070.57	-125.53	515.76	62.52	8.33	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 12N-30B-M PWB Offset Wellpath: GOETZEL 12N-30B-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#17 GOETZEL 12N-30B-M (2237'FSL & 2053'FWL, SEC.29) Well: GOETZEL 12N-30B-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5825.00†	5624.12	-825.80	1077.78	5826.39	5666.74	-302.65	1097.04	-125.25	525.24	64.03	8.28	PASS
5925.00†	5719.55	-843.98	1101.50	5925.90	5762.27	-311.40	1123.52	-124.98	534.74	65.55	8.24	PASS
6025.00†	5814.98	-862.15	1125.22	6025.42	5857.80	-320.16	1149.99	-124.72	544.24	67.07	8.19	PASS
6125.00†	5910.41	-880.33	1148.94	6124.94	5953.33	-328.92	1176.47	-124.47	553.76	68.59	8.15	PASS
6225.00†	6005.84	-898.50	1172.66	6224.93	6049.32	-337.72	1203.05	-124.23	563.28	70.12	8.10	PASS
6325.00†	6101.27	-916.68	1196.38	6333.87	6155.78	-348.01	1223.19	-124.88	571.90	71.40	8.08	PASS
6337.66	6113.36	-918.98	1199.39	6347.48	6169.25	-349.38	1224.56	-125.08	572.89	71.52	8.08	PASS
6425.00†	6197.68	-935.35	1214.89	6440.12	6261.28	-359.12	1227.02	-147.52	579.85	72.23	8.10	PASS
6525.00†	6295.51	-955.09	1219.69	6543.89	6363.67	-370.77	1215.60	173.48	588.30	72.89	8.14	PASS
6625.00†	6392.89	-975.53	1210.57	6645.32	6461.05	-382.67	1190.20	140.33	597.11	73.76	8.16	PASS
6725.00†	6487.92	-996.27	1187.72	6744.54	6551.86	-394.58	1152.21	121.81	606.13	74.82	8.17	PASS
6825.00†	6578.76	-1016.92	1151.57	6841.74	6634.83	-406.27	1103.11	111.15	615.12	76.33	8.12	PASS
6925.00†	6663.63	-1037.05	1102.83	6937.10	6709.01	-417.57	1044.38	104.22	623.89	78.44	8.02	PASS
7025.00†	6740.88	-1056.30	1042.46	7030.82	6773.65	-428.31	977.48	99.30	632.19	81.23	7.84	PASS
7125.00†	6809.01	-1074.27	971.61	7123.06	6828.21	-438.35	903.85	95.60	639.81	84.73	7.61	PASS
7225.00†	6866.70	-1090.62	891.68	7214.04	6872.31	-447.57	824.88	92.76	646.54	88.92	7.32	PASS
7325.00†	6912.82	-1105.03	804.22	7303.91	6905.71	-455.86	741.93	90.59	652.19	93.65	7.01	PASS
7425.00†	6946.47	-1117.23	710.93	7392.84	6928.30	-463.15	656.28	88.96	656.61	98.78	6.69	PASS
7525.00†	6966.99	-1126.96	613.63	7481.01	6940.09	-469.35	569.18	87.83	659.66	104.13	6.37	PASS
7625.00†	6974.00	-1134.06	514.21	7573.59	6942.00	-474.80	476.81	87.23	661.09	109.67	6.06	PASS
7626.30	6974.00	-1134.13	512.92	7574.89	6942.00	-474.88	475.51	87.23	661.09	109.74	6.06	PASS
7725.00†	6974.00	-1139.74	414.37	7673.59	6942.00	-480.47	376.97	87.23	661.11	115.59	5.75	PASS
7825.00†	6974.00	-1145.42	314.54	7773.59	6942.00	-486.13	277.13	87.23	661.12	121.92	5.45	PASS
7925.00†	6974.00	-1151.10	214.70	7873.59	6942.00	-491.80	177.29	87.23	661.14	128.60	5.16	PASS
8025.00†	6974.00	-1156.78	114.86	7973.59	6942.00	-497.46	77.45	87.23	661.16	135.57	4.90	PASS
8125.00†	6974.00	-1162.47	15.02	8073.59	6942.00	-503.13	-22.39	87.23	661.17	142.80	4.65	PASS
8225.00†	6974.00	-1168.15	-84.82	8173.59	6942.00	-508.79	-122.23	87.23	661.19	150.23	4.42	PASS
8325.00†	6974.00	-1173.83	-184.66	8273.59	6942.00	-514.46	-222.07	87.23	661.21	157.86	4.20	PASS
8425.00†	6974.00	-1179.51	-284.49	8373.59	6942.00	-520.12	-321.91	87.23	661.23	165.64	4.00	PASS
8525.00†	6974.00	-1185.20	-384.33	8473.59	6942.00	-525.79	-421.75	87.23	661.24	173.55	3.82	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 12N-30B-M PWB Offset Wellpath: GOETZEL 12N-30B-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#17 GOETZEL 12N-30B-M (2237'FSL & 2053'FWL, SEC.29) Well: GOETZEL 12N-30B-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8625.00†	6974.00	-1190.88	-484.17	8573.59	6942.00	-531.45	-521.59	87.23	661.26	181.59	3.65	PASS
8725.00†	6974.00	-1196.56	-584.01	8673.59	6942.00	-537.12	-621.43	87.23	661.28	189.73	3.49	PASS
8825.00†	6974.00	-1202.24	-683.85	8773.59	6942.00	-542.78	-721.27	87.23	661.29	197.96	3.35	PASS
8925.00†	6974.00	-1207.92	-783.69	8873.59	6942.00	-548.45	-821.11	87.23	661.31	206.27	3.21	PASS
9025.00†	6974.00	-1213.61	-883.52	8973.59	6942.00	-554.11	-920.95	87.23	661.33	214.65	3.09	PASS
9125.00†	6974.00	-1219.29	-983.36	9073.59	6942.00	-559.78	-1020.79	87.23	661.35	223.10	2.97	PASS
9225.00†	6974.00	-1224.97	-1083.20	9173.59	6942.00	-565.44	-1120.62	87.23	661.36	231.60	2.86	PASS
9325.00†	6974.00	-1230.65	-1183.04	9273.59	6942.00	-571.11	-1220.46	87.23	661.38	240.15	2.76	PASS
9425.00†	6974.00	-1236.33	-1282.88	9373.59	6942.00	-576.77	-1320.30	87.23	661.40	248.74	2.66	PASS
9525.00†	6974.00	-1242.02	-1382.72	9473.59	6942.00	-582.44	-1420.14	87.23	661.41	257.38	2.57	PASS
9625.00†	6974.00	-1247.70	-1482.56	9573.59	6942.00	-588.10	-1519.98	87.23	661.43	266.05	2.49	PASS
9725.00†	6974.00	-1253.38	-1582.39	9673.59	6942.00	-593.77	-1619.82	87.23	661.45	274.75	2.41	PASS
9825.00†	6974.00	-1259.06	-1682.23	9773.59	6942.00	-599.43	-1719.66	87.23	661.46	283.49	2.34	PASS
9925.00†	6974.00	-1264.75	-1782.07	9873.59	6942.00	-605.10	-1819.50	87.23	661.48	292.25	2.27	PASS
10025.00†	6974.00	-1270.43	-1881.91	9973.59	6942.00	-610.76	-1919.34	87.23	661.50	301.03	2.20	PASS
10125.00†	6974.00	-1276.11	-1981.75	10073.59	6942.00	-616.43	-2019.18	87.23	661.52	309.84	2.14	PASS
10225.00†	6974.00	-1281.79	-2081.59	10173.59	6942.00	-622.09	-2119.02	87.23	661.53	318.67	2.08	PASS
10325.00†	6974.00	-1287.47	-2181.42	10273.59	6942.00	-627.76	-2218.86	87.23	661.55	327.52	2.02	PASS
10425.00†	6974.00	-1293.16	-2281.26	10373.59	6942.00	-633.43	-2318.70	87.23	661.57	336.38	1.97	PASS
10525.00†	6974.00	-1298.84	-2381.10	10473.59	6942.00	-639.09	-2418.54	87.23	661.58	345.26	1.92	PASS
10625.00†	6974.00	-1304.52	-2480.94	10573.59	6942.00	-644.76	-2518.38	87.23	661.60	354.16	1.87	PASS
10725.00†	6974.00	-1310.20	-2580.78	10673.59	6942.00	-650.42	-2618.22	87.23	661.62	363.07	1.82	PASS
10825.00†	6974.00	-1315.88	-2680.62	10773.59	6942.00	-656.09	-2718.06	87.23	661.63	371.99	1.78	PASS
10925.00†	6974.00	-1321.57	-2780.46	10873.59	6942.00	-661.75	-2817.89	87.23	661.65	380.93	1.74	PASS
11025.00†	6974.00	-1327.25	-2880.29	10973.59	6942.00	-667.42	-2917.73	87.23	661.67	389.87	1.70	PASS
11125.00†	6974.00	-1332.93	-2980.13	11073.59	6942.00	-673.08	-3017.57	87.23	661.69	398.83	1.66	PASS
11225.00†	6974.00	-1338.61	-3079.97	11173.59	6942.00	-678.75	-3117.41	87.23	661.70	407.80	1.62	PASS
11325.00†	6974.00	-1344.30	-3179.81	11273.59	6942.00	-684.41	-3217.25	87.23	661.72	416.77	1.59	PASS
11425.00†	6974.00	-1349.98	-3279.65	11373.59	6942.00	-690.08	-3317.09	87.23	661.74	425.76	1.56	PASS
11525.00†	6974.00	-1355.66	-3379.49	11473.59	6942.00	-695.74	-3416.93	87.23	661.75	434.75	1.52	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 12N-30B-M PWB Offset Wellpath: GOETZEL 12N-30B-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#17 GOETZEL 12N-30B-M (2237'FSL & 2053'FWL, SEC.29) Well: GOETZEL 12N-30B-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11625.00†	6974.00	-1361.34	-3479.32	11573.59	6942.00	-701.41	-3516.77	87.23	661.77	443.75	1.49	PASS
11725.00†	6974.00	-1367.02	-3579.16	11673.59	6942.00	-707.07	-3616.61	87.23	661.79	452.76	1.46	PASS
11825.00†	6974.00	-1372.71	-3679.00	11773.59	6942.00	-712.74	-3716.45	87.23	661.81	461.77	1.43	PASS
11925.00†	6974.00	-1378.39	-3778.84	11873.59	6942.00	-718.40	-3816.29	87.23	661.82	470.79	1.41	PASS
12025.00†	6974.00	-1384.07	-3878.68	11973.59	6942.00	-724.07	-3916.13	87.23	661.84	479.81	1.38	PASS
12125.00†	6974.00	-1389.75	-3978.52	12073.59	6942.00	-729.73	-4015.97	87.23	661.86	488.84	1.35	PASS
12225.00†	6974.00	-1395.44	-4078.35	12173.59	6942.00	-735.40	-4115.81	87.23	661.87	497.88	1.33	PASS
12325.00†	6974.00	-1401.12	-4178.19	12273.59	6942.00	-741.06	-4215.65	87.23	661.89	506.92	1.31	PASS
12425.00†	6974.00	-1406.80	-4278.03	12373.59	6942.00	-746.73	-4315.49	87.23	661.91	515.97	1.28	PASS
12525.00†	6974.00	-1412.48	-4377.87	12473.59	6942.00	-752.39	-4415.33	87.23	661.92	525.02	1.26	PASS
12625.00†	6974.00	-1418.16	-4477.71	12573.59	6942.00	-758.06	-4515.16	87.23	661.94	534.07	1.24	PASS
12725.00†	6974.00	-1423.85	-4577.55	12673.59	6942.00	-763.72	-4615.00	87.23	661.96	543.13	1.22	PASS
12825.00†	6974.00	-1429.53	-4677.39	12773.59	6942.00	-769.39	-4714.84	87.23	661.98	552.19	1.20	PASS
12925.00†	6974.00	-1435.21	-4777.22	12873.59	6942.00	-775.05	-4814.68	87.23	661.99	561.26	1.18	PASS
13025.00†	6974.00	-1440.89	-4877.06	12973.59	6942.00	-780.72	-4914.52	87.23	662.01	570.33	1.16	PASS
13125.00†	6974.00	-1446.57	-4976.90	13073.59	6942.00	-786.38	-5014.36	87.23	662.03	579.40	1.14	PASS
13225.00†	6974.00	-1452.26	-5076.74	13173.59	6942.00	-792.05	-5114.20	87.23	662.04	588.48	1.13	PASS
13325.00†	6974.00	-1457.94	-5176.58	13273.59	6942.00	-797.71	-5214.04	87.23	662.06	597.56	1.11	PASS
13425.00†	6974.00	-1463.62	-5276.42	13373.59	6942.00	-803.38	-5313.88	87.23	662.08	606.64	1.09	PASS
13525.00†	6974.00	-1469.30	-5376.25	13473.59	6942.00	-809.04	-5413.72	87.23	662.10	615.72	1.08	PASS
13625.00†	6974.00	-1474.99	-5476.09	13573.59	6942.00	-814.71	-5513.56	87.23	662.11	624.81	1.06	PASS
13725.00†	6974.00	-1480.67	-5575.93	13673.59	6942.00	-820.37	-5613.40	87.23	662.13	633.90	1.04	PASS
13825.00†	6974.00	-1486.35	-5675.77	13773.59	6942.00	-826.04	-5713.24	87.23	662.15	642.99	1.03	PASS
13925.00†	6974.00	-1492.03	-5775.61	13873.59	6942.00	-831.70	-5813.08	87.23	662.16	652.09	1.02	PASS
14025.00†	6974.00	-1497.71	-5875.45	13973.59	6942.00	-837.37	-5912.92	87.23	662.18	661.19	1.00	PASS
14125.00†	6974.00	-1503.40	-5975.29	14073.59	6942.00	-843.03	-6012.76	87.23	662.20	670.28	0.99	FAIL
14225.00†	6974.00	-1509.08	-6075.12	14173.59	6942.00	-848.70	-6112.60	87.23	662.21	679.39	0.97	FAIL
14325.00†	6974.00	-1514.76	-6174.96	14273.59	6942.00	-854.36	-6212.43	87.23	662.23	688.46	0.96	FAIL
14425.00†	6974.00	-1520.44	-6274.80	14373.59	6942.00	-860.03	-6312.27	87.23	662.25	697.59	0.95	FAIL
14525.00†	6974.00	-1526.12	-6374.64	14473.59	6942.00	-865.70	-6412.11	87.23	662.27	706.70	0.94	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 12N-30B-M PWB Offset Wellpath: GOETZEL 12N-30B-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#17 GOETZEL 12N-30B-M (2237'FSL & 2053'FWL, SEC.29) Well: GOETZEL 12N-30B-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14625.00†	6974.00	-1531.81	-6474.48	14573.59	6942.00	-871.36	-6511.95	87.23	662.28	715.81	0.93	FAIL
14725.00†	6974.00	-1537.49	-6574.32	14673.59	6942.00	-877.03	-6611.79	87.23	662.30	724.92	0.91	FAIL
14825.00†	6974.00	-1543.17	-6674.15	14773.59	6942.00	-882.69	-6711.63	87.23	662.32	734.03	0.90	FAIL
14925.00†	6974.00	-1548.85	-6773.99	14873.59	6942.00	-888.36	-6811.47	87.23	662.33	743.14	0.89	FAIL
15025.00†	6974.00	-1554.54	-6873.83	14973.59	6942.00	-894.02	-6911.31	87.23	662.35	752.26	0.88	FAIL
15125.00†	6974.00	-1560.22	-6973.67	15073.59	6942.00	-899.69	-7011.15	87.23	662.37	761.37	0.87	FAIL
15225.00†	6974.00	-1565.90	-7073.51	15173.59	6942.00	-905.35	-7110.99	87.23	662.38	770.49	0.86	FAIL
15325.00†	6974.00	-1571.58	-7173.35	15273.59	6942.00	-911.02	-7210.83	87.23	662.40	779.61	0.85	FAIL
15425.00†	6974.00	-1577.26	-7273.18	15373.59	6942.00	-916.68	-7310.67	87.23	662.42	788.73	0.84	FAIL
15525.00†	6974.00	-1582.95	-7373.02	15473.59	6942.00	-922.35	-7410.51	87.23	662.44	797.85	0.83	FAIL
15625.00†	6974.00	-1588.63	-7472.86	15573.59	6942.00	-928.01	-7510.35	87.23	662.45	806.97	0.82	FAIL
15725.00†	6974.00	-1594.31	-7572.70	15673.59	6942.00	-933.68	-7610.19	87.23	662.47	816.10	0.81	FAIL
15825.00†	6974.00	-1599.99	-7672.54	15773.59	6942.00	-939.34	-7710.03	87.23	662.49	825.22	0.80	FAIL
15867.96†	6974.00	-1602.43	-7715.43	15801.58	6942.00	-940.93	-7737.97	87.23	662.66	828.41	0.80	FAIL
15888.79	6974.00	-1603.62	-7736.23	15801.58	6942.00	-940.93	-7737.97	87.23	663.46	827.89	0.80	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 12N-30B-M PWB Offset Wellpath: GOETZEL 12N-30B-M REV-A.0 PWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 12N-30B-M PWB Offset Wellpath: GOETZEL 12N-30B-M REV-A.0 PWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	25.00	1700.00	1675.00	25.00	1698.70	36.64	0.19	33.98	8.26
8.5in Open Hole	1700.00	15801.00	14101.00	1698.70	6942.00	33.98	8.26	-268.46	-2358.26



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GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

SURVEY PROGRAM - Offset Wellbore: GOETZEL 12N-30B-M REV-A.0 PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1700.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GOETZEL 12N-30B-M PWB
1700.00	15801.58	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 12N-30B-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 12N-30B-M PWB Offset Wellpath: GOETZEL 12N-30B-M REV-A.0 PWP

MD Reference: PRECISION 562 (25") (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	25.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: FIRESTIEN #30-44 AWB Offset Wellpath: FIRESTIEN #30-44 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#08 EX FIRESTIEN #30-44 (646'FSL & 668'FEL SEC.30, 7254'MD) Well: FIRESTIEN #30-44 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	-8.00	25.00	-1618.89	-2733.19	-120.64	3176.65	25.73	129.08	PASS
125.00†	125.00	0.00	0.00	92.00	125.00	-1618.89	-2733.19	-120.64	3176.65	52.24	61.88	PASS
225.00†	225.00	0.00	0.00	192.00	225.00	-1618.89	-2733.19	-120.64	3176.65	54.55	59.22	PASS
325.00†	325.00	0.00	0.00	292.00	325.00	-1618.89	-2733.19	-120.64	3176.65	56.86	56.77	PASS
425.00†	425.00	0.00	0.00	392.00	425.00	-1618.89	-2733.19	-120.64	3176.65	59.18	54.51	PASS
525.00†	525.00	0.00	0.00	492.00	525.00	-1618.89	-2733.19	-120.64	3176.65	61.33	52.43	PASS
625.00†	625.00	0.00	0.00	592.00	625.00	-1618.89	-2733.19	-120.64	3176.65	63.65	50.49	PASS
725.00†	725.00	0.00	0.00	692.00	725.00	-1618.89	-2733.19	-120.64	3176.65	65.98	48.69	PASS
825.00†	825.00	0.00	0.00	792.00	825.00	-1618.89	-2733.19	-120.64	3176.65	68.31	47.01	PASS
850.00	850.00	0.00	0.00	817.00	850.00	-1618.89	-2733.19	-120.64	3176.65	68.89	46.61	PASS
925.00†	924.99	-0.60	0.78	891.99	924.99	-1618.89	-2733.19	111.91	3177.02	70.65	45.44	PASS
1025.00†	1024.89	-3.25	4.24	991.89	1024.89	-1618.89	-2733.19	111.95	3178.65	72.99	43.99	PASS
1125.00†	1124.58	-8.02	10.47	1091.58	1124.58	-1618.89	-2733.19	112.03	3181.60	75.34	42.65	PASS
1225.00†	1223.93	-14.91	19.45	1190.93	1223.93	-1618.89	-2733.19	112.14	3185.88	77.69	41.40	PASS
1325.00†	1322.83	-23.90	31.19	1289.83	1322.83	-1618.89	-2733.19	112.28	3191.52	80.04	40.24	PASS
1425.00†	1421.15	-34.98	45.65	1388.15	1421.15	-1618.89	-2733.19	112.45	3198.55	82.39	39.17	PASS
1525.00†	1518.77	-48.14	62.83	1485.77	1518.77	-1618.89	-2733.19	112.64	3207.02	84.76	38.17	PASS
1625.00†	1615.58	-63.37	82.71	1582.58	1615.58	-1618.89	-2733.19	112.85	3216.97	87.14	37.23	PASS
1719.36	1706.08	-79.61	103.91	1673.08	1706.08	-1618.89	-2733.19	113.08	3227.77	89.11	36.44	PASS
1725.00†	1711.46	-80.64	105.24	1678.46	1711.46	-1618.89	-2733.19	113.10	3228.46	89.23	36.40	PASS
1825.00†	1806.89	-98.81	128.96	1773.89	1806.89	-1618.89	-2733.19	113.57	3240.77	91.46	35.64	PASS
1925.00†	1902.32	-116.99	152.69	1869.32	1902.32	-1618.89	-2733.19	114.03	3253.30	93.71	34.91	PASS
2025.00†	1997.75	-135.16	176.41	1964.75	1997.75	-1618.89	-2733.19	114.50	3266.07	95.99	34.21	PASS
2125.00†	2093.18	-153.34	200.13	2060.18	2093.18	-1618.89	-2733.19	114.95	3279.05	98.29	33.54	PASS
2225.00†	2188.61	-171.51	223.85	2155.61	2188.61	-1618.89	-2733.19	115.41	3292.26	100.60	32.90	PASS
2325.00†	2284.04	-189.69	247.57	2251.04	2284.04	-1618.89	-2733.19	115.86	3305.68	102.94	32.28	PASS
2425.00†	2379.48	-207.86	271.29	2346.48	2379.48	-1618.89	-2733.19	116.30	3319.32	105.30	31.68	PASS
2525.00†	2474.91	-226.04	295.01	2441.91	2474.91	-1618.89	-2733.19	116.75	3333.17	107.68	31.11	PASS
2625.00†	2570.34	-244.21	318.73	2537.34	2570.34	-1618.89	-2733.19	117.19	3347.23	110.08	30.55	PASS
2725.00†	2665.77	-262.39	342.45	2632.77	2665.77	-1618.89	-2733.19	117.63	3361.50	112.49	30.02	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: FIRESTIEN #30-44 AWB Offset Wellpath: FIRESTIEN #30-44 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#08 EX FIRESTIEN #30-44 (646'FSL & 668'FEL SEC.30, 7254'MD) Well: FIRESTIEN #30-44 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2825.00†	2761.20	-280.56	366.17	2728.20	2761.20	-1618.89	-2733.19	118.06	3375.97	114.93	29.51	PASS
2925.00†	2856.63	-298.74	389.89	2823.63	2856.63	-1618.89	-2733.19	118.49	3390.64	117.38	29.02	PASS
3025.00†	2952.06	-316.91	413.61	2919.06	2952.06	-1618.89	-2733.19	118.92	3405.51	119.85	28.54	PASS
3125.00†	3047.49	-335.08	437.33	3014.49	3047.49	-1618.89	-2733.19	119.34	3420.58	122.33	28.08	PASS
3225.00†	3142.92	-353.26	461.05	3109.92	3142.92	-1618.89	-2733.19	119.76	3435.84	124.83	27.64	PASS
3325.00†	3238.35	-371.43	484.77	3205.35	3238.35	-1618.89	-2733.19	120.17	3451.29	127.34	27.21	PASS
3425.00†	3333.78	-389.61	508.49	3300.78	3333.78	-1618.89	-2733.19	120.59	3466.93	129.86	26.80	PASS
3525.00†	3429.21	-407.78	532.21	3396.21	3429.21	-1618.89	-2733.19	121.00	3482.76	132.40	26.41	PASS
3625.00†	3524.64	-425.96	555.93	3491.64	3524.64	-1618.89	-2733.19	121.40	3498.77	134.96	26.03	PASS
3725.00†	3620.07	-444.13	579.65	3587.07	3620.07	-1618.89	-2733.19	121.80	3514.96	137.52	25.66	PASS
3825.00†	3715.51	-462.31	603.37	3682.51	3715.51	-1618.89	-2733.19	122.20	3531.34	140.09	25.30	PASS
3925.00†	3810.94	-480.48	627.09	3777.94	3810.94	-1618.89	-2733.19	122.60	3547.88	142.68	24.96	PASS
4025.00†	3906.37	-498.66	650.81	3873.37	3906.37	-1618.89	-2733.19	122.99	3564.60	145.28	24.63	PASS
4125.00†	4001.80	-516.83	674.53	3968.80	4001.80	-1618.89	-2733.19	123.38	3581.50	147.88	24.30	PASS
4225.00†	4097.23	-535.01	698.25	4064.23	4097.23	-1618.89	-2733.19	123.76	3598.56	150.49	23.99	PASS
4325.00†	4192.66	-553.18	721.97	4159.66	4192.66	-1618.89	-2733.19	124.14	3615.78	153.12	23.69	PASS
4425.00†	4288.09	-571.36	745.69	4255.09	4288.09	-1618.89	-2733.19	124.52	3633.18	155.75	23.40	PASS
4525.00†	4383.52	-589.53	769.41	4350.52	4383.52	-1618.89	-2733.19	124.90	3650.73	158.39	23.12	PASS
4625.00†	4478.95	-607.71	793.14	4445.95	4478.95	-1618.89	-2733.19	125.27	3668.44	161.03	22.85	PASS
4725.00†	4574.38	-625.88	816.86	4541.38	4574.38	-1618.89	-2733.19	125.64	3686.31	163.69	22.59	PASS
4825.00†	4669.81	-644.05	840.58	4636.81	4669.81	-1618.89	-2733.19	126.00	3704.34	166.35	22.34	PASS
4925.00†	4765.24	-662.23	864.30	4732.24	4765.24	-1618.89	-2733.19	126.36	3722.51	169.01	22.09	PASS
5025.00†	4860.67	-680.40	888.02	4827.67	4860.67	-1618.89	-2733.19	126.72	3740.84	171.68	21.85	PASS
5125.00†	4956.11	-698.58	911.74	4923.11	4956.11	-1618.89	-2733.19	127.07	3759.32	174.36	21.62	PASS
5225.00†	5051.54	-716.75	935.46	5018.54	5051.54	-1618.89	-2733.19	127.43	3777.94	177.04	21.40	PASS
5325.00†	5146.97	-734.93	959.18	5113.97	5146.97	-1618.89	-2733.19	127.77	3796.71	179.73	21.19	PASS
5425.00†	5242.40	-753.10	982.90	5209.40	5242.40	-1618.89	-2733.19	128.12	3815.61	182.42	20.98	PASS
5525.00†	5337.83	-771.28	1006.62	5304.83	5337.83	-1618.89	-2733.19	128.46	3834.66	185.12	20.77	PASS
5625.00†	5433.26	-789.45	1030.34	5400.26	5433.26	-1618.89	-2733.19	128.80	3853.84	187.82	20.58	PASS
5725.00†	5528.69	-807.63	1054.06	5495.69	5528.69	-1618.89	-2733.19	129.13	3873.17	190.52	20.38	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: FIRESTIEN #30-44 AWB Offset Wellpath: FIRESTIEN #30-44 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#08 EX FIRESTIEN #30-44 (646'FSL & 668'FEL SEC.30, 7254'MD) Well: FIRESTIEN #30-44 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5825.00†	5624.12	-825.80	1077.78	5591.12	5624.12	-1618.89	-2733.19	129.46	3892.62	193.23	20.20	PASS
5925.00†	5719.55	-843.98	1101.50	5686.55	5719.55	-1618.89	-2733.19	129.79	3912.20	195.94	20.02	PASS
6025.00†	5814.98	-862.15	1125.22	5781.98	5814.98	-1618.89	-2733.19	130.12	3931.92	198.66	19.84	PASS
6125.00†	5910.41	-880.33	1148.94	5877.41	5910.41	-1618.89	-2733.19	130.44	3951.76	201.37	19.67	PASS
6225.00†	6005.84	-898.50	1172.66	5972.84	6005.84	-1618.89	-2733.19	130.76	3971.73	204.09	19.51	PASS
6325.00†	6101.27	-916.68	1196.38	6068.27	6101.27	-1618.89	-2733.19	131.08	3991.82	206.82	19.35	PASS
6337.66	6113.36	-918.98	1199.39	6080.36	6113.36	-1618.89	-2733.19	131.12	3994.38	207.16	19.33	PASS
6425.00†	6197.68	-935.35	1214.89	6164.68	6197.68	-1618.89	-2733.19	111.05	4006.82	209.57	19.17	PASS
6525.00†	6295.51	-955.09	1219.69	6262.51	6295.51	-1618.89	-2733.19	74.64	4008.23	212.51	18.91	PASS
6625.00†	6392.89	-975.53	1210.57	6359.89	6392.89	-1618.89	-2733.19	43.93	3995.90	215.46	18.59	PASS
6725.00†	6487.92	-996.27	1187.72	6454.92	6487.92	-1618.89	-2733.19	27.64	3970.03	218.35	18.23	PASS
6825.00†	6578.76	-1016.92	1151.57	6545.76	6578.76	-1618.89	-2733.19	18.97	3931.12	220.99	17.83	PASS
6925.00†	6663.63	-1037.05	1102.83	6630.63	6663.63	-1618.89	-2733.19	13.71	3879.90	223.36	17.41	PASS
7025.00†	6740.88	-1056.30	1042.46	6707.88	6740.88	-1618.89	-2733.19	10.04	3817.33	225.43	16.97	PASS
7125.00†	6809.01	-1074.27	971.61	6776.01	6809.01	-1618.89	-2733.19	7.05	3744.62	227.21	16.52	PASS
7225.00†	6866.70	-1090.62	891.68	6833.70	6866.70	-1618.89	-2733.19	4.07	3663.17	228.68	16.05	PASS
7325.00†	6912.82	-1105.03	804.22	6879.82	6912.82	-1618.89	-2733.19	0.27	3574.54	229.83	15.59	PASS
7425.00†	6946.47	-1117.23	710.93	6913.47	6946.47	-1618.89	-2733.19	-6.32	3480.47	230.66	15.12	PASS
7525.00†	6966.99	-1126.96	613.63	6933.99	6966.99	-1618.89	-2733.19	-23.71	3382.78	231.19	14.66	PASS
7625.00†	6974.00	-1134.06	514.21	6941.00	6974.00	-1618.89	-2733.19	-88.88	3283.40	231.42	14.22	PASS
7626.30	6974.00	-1134.13	512.92	6941.00	6974.00	-1618.89	-2733.19	-90.00	3282.10	231.42	14.21	PASS
7725.00†	6974.00	-1139.74	414.37	6941.00	6974.00	-1618.89	-2733.19	-90.00	3183.83	231.51	13.78	PASS
7825.00†	6974.00	-1145.42	314.54	6941.00	6974.00	-1618.89	-2733.19	-90.00	3084.29	231.62	13.35	PASS
7925.00†	6974.00	-1151.10	214.70	6941.00	6974.00	-1618.89	-2733.19	-90.00	2984.77	231.74	12.91	PASS
8025.00†	6974.00	-1156.78	114.86	6941.00	6974.00	-1618.89	-2733.19	-90.00	2885.30	231.88	12.47	PASS
8125.00†	6974.00	-1162.47	15.02	6941.00	6974.00	-1618.89	-2733.19	-90.00	2785.86	232.04	12.03	PASS
8225.00†	6974.00	-1168.15	-84.82	6941.00	6974.00	-1618.89	-2733.19	-90.00	2686.46	232.22	11.59	PASS
8325.00†	6974.00	-1173.83	-184.66	6941.00	6974.00	-1618.89	-2733.19	-90.00	2587.10	232.43	11.15	PASS
8425.00†	6974.00	-1179.51	-284.49	6941.00	6974.00	-1618.89	-2733.19	-90.00	2487.80	232.67	10.71	PASS
8525.00†	6974.00	-1185.20	-384.33	6941.00	6974.00	-1618.89	-2733.19	-90.00	2388.56	232.95	10.28	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: FIRESTIEN #30-44 AWB Offset Wellpath: FIRESTIEN #30-44 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#08 EX FIRESTIEN #30-44 (646'FSL & 668'FEL SEC.30, 7254'MD) Well: FIRESTIEN #30-44 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8625.00†	6974.00	-1190.88	-484.17	6941.00	6974.00	-1618.89	-2733.19	-90.00	2289.39	233.27	9.83	PASS
8725.00†	6974.00	-1196.56	-584.01	6941.00	6974.00	-1618.89	-2733.19	-90.00	2190.28	233.64	9.39	PASS
8825.00†	6974.00	-1202.24	-683.85	6941.00	6974.00	-1618.89	-2733.19	-90.00	2091.27	234.07	8.95	PASS
8925.00†	6974.00	-1207.92	-783.69	6941.00	6974.00	-1618.89	-2733.19	-90.00	1992.35	234.57	8.51	PASS
9025.00†	6974.00	-1213.61	-883.52	6941.00	6974.00	-1618.89	-2733.19	-90.00	1893.55	235.16	8.07	PASS
9125.00†	6974.00	-1219.29	-983.36	6941.00	6974.00	-1618.89	-2733.19	-90.00	1794.88	235.85	7.63	PASS
9225.00†	6974.00	-1224.97	-1083.20	6941.00	6974.00	-1618.89	-2733.19	-90.00	1696.36	236.67	7.18	PASS
9325.00†	6974.00	-1230.65	-1183.04	6941.00	6974.00	-1618.89	-2733.19	-90.00	1598.03	237.64	6.74	PASS
9425.00†	6974.00	-1236.33	-1282.88	6941.00	6974.00	-1618.89	-2733.19	-90.00	1499.92	238.81	6.29	PASS
9525.00†	6974.00	-1242.02	-1382.72	6941.00	6974.00	-1618.89	-2733.19	-90.00	1402.07	240.22	5.85	PASS
9625.00†	6974.00	-1247.70	-1482.56	6941.00	6974.00	-1618.89	-2733.19	-90.00	1304.56	241.94	5.40	PASS
9725.00†	6974.00	-1253.38	-1582.39	6941.00	6974.00	-1618.89	-2733.19	-90.00	1207.45	244.05	4.96	PASS
9825.00†	6974.00	-1259.06	-1682.23	6941.00	6974.00	-1618.89	-2733.19	-90.00	1110.85	246.66	4.51	PASS
9925.00†	6974.00	-1264.75	-1782.07	6941.00	6974.00	-1618.89	-2733.19	-90.00	1014.91	249.93	4.07	PASS
10025.00†	6974.00	-1270.43	-1881.91	6941.00	6974.00	-1618.89	-2733.19	-90.00	919.84	254.07	3.63	PASS
10125.00†	6974.00	-1276.11	-1981.75	6941.00	6974.00	-1618.89	-2733.19	-90.00	825.93	259.37	3.19	PASS
10225.00†	6974.00	-1281.79	-2081.59	6941.00	6974.00	-1618.89	-2733.19	-90.00	733.64	266.25	2.76	PASS
10325.00†	6974.00	-1287.47	-2181.42	6941.00	6974.00	-1618.89	-2733.19	-90.00	643.65	275.27	2.34	PASS
10425.00†	6974.00	-1293.16	-2281.26	6941.00	6974.00	-1618.89	-2733.19	-90.00	557.08	287.21	1.94	PASS
10525.00†	6974.00	-1298.84	-2381.10	6941.00	6974.00	-1618.89	-2733.19	-90.00	475.81	302.99	1.57	PASS
10625.00†	6974.00	-1304.52	-2480.94	6941.00	6974.00	-1618.89	-2733.19	-90.00	403.06	323.24	1.25	PASS
10725.00†	6974.00	-1310.20	-2580.78	6941.00	6974.00	-1618.89	-2733.19	-90.00	344.26	346.75	0.99	FAIL
10825.00†	6974.00	-1315.88	-2680.62	6941.00	6974.00	-1618.89	-2733.19	-90.00	307.53	367.23	0.84	FAIL
10896.26†	6974.00	-1319.93	-2751.76	6941.09	6974.09	-1618.89	-2733.19	-90.02	299.53	373.73	0.80	FAIL
10899.12†	6974.00	-1320.10	-2754.61	6941.00	6974.00	-1618.89	-2733.19	-90.00	299.56	373.78	0.80	FAIL
10925.00†	6974.00	-1321.57	-2780.46	6941.00	6974.00	-1618.89	-2733.19	-90.00	301.05	373.60	0.81	FAIL
11025.00†	6974.00	-1327.25	-2880.29	6941.00	6974.00	-1618.89	-2733.19	-90.00	326.64	362.22	0.90	FAIL
11125.00†	6974.00	-1332.93	-2980.13	6941.00	6974.00	-1618.89	-2733.19	-90.00	377.82	342.07	1.10	PASS
11225.00†	6974.00	-1338.61	-3079.97	6941.00	6974.00	-1618.89	-2733.19	-90.00	445.88	322.10	1.38	PASS
11325.00†	6974.00	-1344.30	-3179.81	6941.00	6974.00	-1618.89	-2733.19	-90.00	524.28	305.58	1.72	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: FIRESTIEN #30-44 AWB Offset Wellpath: FIRESTIEN #30-44 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#08 EX FIRESTIEN #30-44 (646'FSL & 668'FEL SEC.30, 7254'MD) Well: FIRESTIEN #30-44 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11425.00†	6974.00	-1349.98	-3279.65	6941.00	6974.00	-1618.89	-2733.19	-90.00	609.04	292.68	2.08	PASS
11525.00†	6974.00	-1355.66	-3379.49	6941.00	6974.00	-1618.89	-2733.19	-90.00	697.84	282.72	2.47	PASS
11625.00†	6974.00	-1361.34	-3479.32	6941.00	6974.00	-1618.89	-2733.19	-90.00	789.33	274.99	2.87	PASS
11725.00†	6974.00	-1367.02	-3579.16	6941.00	6974.00	-1618.89	-2733.19	-90.00	882.67	268.91	3.29	PASS
11825.00†	6974.00	-1372.71	-3679.00	6941.00	6974.00	-1618.89	-2733.19	-90.00	977.32	264.07	3.71	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: FIRESTIEN #30-44 AWB Offset Wellpath: FIRESTIEN #30-44 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: FIRESTIEN #30-44 AWB Offset Wellpath: FIRESTIEN #30-44 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	0.00	400.00	400.00	8.00	408.00	-986.78	-1666.21	-986.78	-1666.21
8.625in Casing Surface	0.00	400.00	400.00	8.00	408.00	-986.78	-1666.21	-986.78	-1666.21
7.875in Open Hole	400.00	7175.00	6775.00	408.00	7183.00	-986.78	-1666.21	-986.78	-1666.21
4.5in Casing Production	0.00	7175.00	7175.00	8.00	7183.00	-986.78	-1666.21	-986.78	-1666.21

WELLPATH COMPOSITION - Offset Wellbore: FIRESTIEN #30-44 AWB Offset Wellpath: FIRESTIEN #30-44 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7254.00	Drift Indicator - Inclination Only (Actual Survey)	DRIFT INDICATOR TO TD <7254' FROM CO WEBSITE>	FIRESTIEN #30-44 AWB



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

OFFSET WELLPATH REFERENCE - Offset Wellbore: FIRESTIEN #30-44 AWB Offset Wellpath: FIRESTIEN #30-44 AWP	
MD Reference: Rig on SLOT#08 EX FIRESTIEN #30-44 (646'FSL & 668'FEL SEC.30, 7254'MD) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: TOLLGATE #1 AWB Offset Wellpath: TOLLGATE #1 AWP

Facility: SEC.29-T06N-R66W Slot: SLOT#01 TOLLGATE #1 (660'FSL & 630'FWL SEC.29, 7503'MD) Well: TOLLGATE #1 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	-14.00	25.00	-1546.50	-1476.37	-136.33	2138.07	25.73	86.86	PASS
125.00†	125.00	0.00	0.00	86.00	125.00	-1546.50	-1476.37	-136.33	2138.07	52.12	41.75	PASS
225.00†	225.00	0.00	0.00	186.00	225.00	-1546.50	-1476.37	-136.33	2138.07	54.43	39.94	PASS
325.00†	325.00	0.00	0.00	286.00	325.00	-1546.50	-1476.37	-136.33	2138.07	56.75	38.28	PASS
425.00†	425.00	0.00	0.00	386.00	425.00	-1546.50	-1476.37	-136.33	2138.07	58.91	36.75	PASS
525.00†	525.00	0.00	0.00	486.00	525.00	-1546.50	-1476.37	-136.33	2138.07	61.24	35.34	PASS
625.00†	625.00	0.00	0.00	586.00	625.00	-1546.50	-1476.37	-136.33	2138.07	63.57	34.02	PASS
725.00†	725.00	0.00	0.00	686.00	725.00	-1546.50	-1476.37	-136.33	2138.07	65.91	32.80	PASS
825.00†	825.00	0.00	0.00	786.00	825.00	-1546.50	-1476.37	-136.33	2138.07	68.25	31.66	PASS
850.00	850.00	0.00	0.00	811.00	850.00	-1546.50	-1476.37	-136.33	2138.07	68.83	31.39	PASS
925.00†	924.99	-0.60	0.78	885.99	924.99	-1546.50	-1476.37	96.24	2138.17	70.59	30.60	PASS
1025.00†	1024.89	-3.25	4.24	985.89	1024.89	-1546.50	-1476.37	96.34	2138.65	72.94	29.61	PASS
1125.00†	1124.58	-8.02	10.47	1085.58	1124.58	-1546.50	-1476.37	96.53	2139.53	75.29	28.69	PASS
1225.00†	1223.93	-14.91	19.45	1184.93	1223.93	-1546.50	-1476.37	96.81	2140.86	77.64	27.83	PASS
1325.00†	1322.83	-23.90	31.19	1283.83	1322.83	-1546.50	-1476.37	97.16	2142.67	80.00	27.03	PASS
1425.00†	1421.15	-34.98	45.65	1382.15	1421.15	-1546.50	-1476.37	97.59	2145.05	82.36	26.27	PASS
1525.00†	1518.77	-48.14	62.83	1479.77	1518.77	-1546.50	-1476.37	98.08	2148.07	84.73	25.57	PASS
1625.00†	1615.58	-63.37	82.71	1576.58	1615.58	-1546.50	-1476.37	98.65	2151.83	87.12	24.90	PASS
1719.36	1706.08	-79.61	103.91	1667.08	1706.08	-1546.50	-1476.37	99.24	2156.16	89.10	24.34	PASS
1725.00†	1711.46	-80.64	105.24	1672.46	1711.46	-1546.50	-1476.37	99.28	2156.44	89.22	24.31	PASS
1825.00†	1806.89	-98.81	128.96	1767.89	1806.89	-1546.50	-1476.37	100.03	2161.69	91.46	23.77	PASS
1925.00†	1902.32	-116.99	152.69	1863.32	1902.32	-1546.50	-1476.37	100.77	2167.33	93.73	23.25	PASS
2025.00†	1997.75	-135.16	176.41	1958.75	1997.75	-1546.50	-1476.37	101.51	2173.37	96.02	22.76	PASS
2125.00†	2093.18	-153.34	200.13	2054.18	2093.18	-1546.50	-1476.37	102.25	2179.80	98.33	22.28	PASS
2225.00†	2188.61	-171.51	223.85	2149.61	2188.61	-1546.50	-1476.37	102.98	2186.62	100.67	21.83	PASS
2325.00†	2284.04	-189.69	247.57	2245.04	2284.04	-1546.50	-1476.37	103.71	2193.83	103.03	21.40	PASS
2425.00†	2379.48	-207.86	271.29	2340.48	2379.48	-1546.50	-1476.37	104.43	2201.42	105.41	20.99	PASS
2525.00†	2474.91	-226.04	295.01	2435.91	2474.91	-1546.50	-1476.37	105.15	2209.39	107.81	20.59	PASS
2625.00†	2570.34	-244.21	318.73	2531.34	2570.34	-1546.50	-1476.37	105.86	2217.73	110.23	20.21	PASS
2725.00†	2665.77	-262.39	342.45	2626.77	2665.77	-1546.50	-1476.37	106.57	2226.44	112.67	19.85	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: TOLLGATE #1 AWB Offset Wellpath: TOLLGATE #1 AWP

Facility: SEC.29-T06N-R66W Slot: SLOT#01 TOLLGATE #1 (660'FSL & 630'FWL SEC.29, 7503'MD) Well: TOLLGATE #1 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2825.00†	2761.20	-280.56	366.17	2722.20	2761.20	-1546.50	-1476.37	107.28	2235.52	115.13	19.51	PASS
2925.00†	2856.63	-298.74	389.89	2817.63	2856.63	-1546.50	-1476.37	107.97	2244.96	117.60	19.17	PASS
3025.00†	2952.06	-316.91	413.61	2913.06	2952.06	-1546.50	-1476.37	108.67	2254.75	120.10	18.86	PASS
3125.00†	3047.49	-335.08	437.33	3008.49	3047.49	-1546.50	-1476.37	109.35	2264.90	122.61	18.55	PASS
3225.00†	3142.92	-353.26	461.05	3103.92	3142.92	-1546.50	-1476.37	110.03	2275.40	125.13	18.26	PASS
3325.00†	3238.35	-371.43	484.77	3199.35	3238.35	-1546.50	-1476.37	110.71	2286.23	127.67	17.98	PASS
3425.00†	3333.78	-389.61	508.49	3294.78	3333.78	-1546.50	-1476.37	111.38	2297.41	130.22	17.71	PASS
3525.00†	3429.21	-407.78	532.21	3390.21	3429.21	-1546.50	-1476.37	112.04	2308.91	132.79	17.45	PASS
3625.00†	3524.64	-425.96	555.93	3485.64	3524.64	-1546.50	-1476.37	112.70	2320.75	135.37	17.21	PASS
3725.00†	3620.07	-444.13	579.65	3581.07	3620.07	-1546.50	-1476.37	113.35	2332.90	137.96	16.97	PASS
3825.00†	3715.51	-462.31	603.37	3676.51	3715.51	-1546.50	-1476.37	114.00	2345.38	140.56	16.75	PASS
3925.00†	3810.94	-480.48	627.09	3771.94	3810.94	-1546.50	-1476.37	114.63	2358.17	143.17	16.53	PASS
4025.00†	3906.37	-498.66	650.81	3867.37	3906.37	-1546.50	-1476.37	115.27	2371.26	145.79	16.32	PASS
4125.00†	4001.80	-516.83	674.53	3962.80	4001.80	-1546.50	-1476.37	115.89	2384.66	148.42	16.12	PASS
4225.00†	4097.23	-535.01	698.25	4058.23	4097.23	-1546.50	-1476.37	116.51	2398.36	151.06	15.93	PASS
4325.00†	4192.66	-553.18	721.97	4153.66	4192.66	-1546.50	-1476.37	117.12	2412.34	153.71	15.75	PASS
4425.00†	4288.09	-571.36	745.69	4249.09	4288.09	-1546.50	-1476.37	117.73	2426.62	156.36	15.57	PASS
4525.00†	4383.52	-589.53	769.41	4344.52	4383.52	-1546.50	-1476.37	118.33	2441.18	159.02	15.40	PASS
4625.00†	4478.95	-607.71	793.14	4439.95	4478.95	-1546.50	-1476.37	118.92	2456.01	161.69	15.24	PASS
4725.00†	4574.38	-625.88	816.86	4535.38	4574.38	-1546.50	-1476.37	119.51	2471.12	164.36	15.08	PASS
4825.00†	4669.81	-644.05	840.58	4630.81	4669.81	-1546.50	-1476.37	120.08	2486.49	167.04	14.93	PASS
4925.00†	4765.24	-662.23	864.30	4726.24	4765.24	-1546.50	-1476.37	120.66	2502.13	169.72	14.79	PASS
5025.00†	4860.67	-680.40	888.02	4821.67	4860.67	-1546.50	-1476.37	121.22	2518.03	172.41	14.65	PASS
5125.00†	4956.11	-698.58	911.74	4917.11	4956.11	-1546.50	-1476.37	121.78	2534.17	175.10	14.51	PASS
5225.00†	5051.54	-716.75	935.46	5012.54	5051.54	-1546.50	-1476.37	122.33	2550.57	177.79	14.39	PASS
5325.00†	5146.97	-734.93	959.18	5107.97	5146.97	-1546.50	-1476.37	122.88	2567.21	180.49	14.26	PASS
5425.00†	5242.40	-753.10	982.90	5203.40	5242.40	-1546.50	-1476.37	123.42	2584.08	183.20	14.14	PASS
5525.00†	5337.83	-771.28	1006.62	5298.83	5337.83	-1546.50	-1476.37	123.95	2601.19	185.90	14.03	PASS
5625.00†	5433.26	-789.45	1030.34	5394.26	5433.26	-1546.50	-1476.37	124.48	2618.53	188.61	13.92	PASS
5725.00†	5528.69	-807.63	1054.06	5489.69	5528.69	-1546.50	-1476.37	124.99	2636.10	191.33	13.81	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: TOLLGATE #1 AWB Offset Wellpath: TOLLGATE #1 AWP

Facility: SEC.29-T06N-R66W Slot: SLOT#01 TOLLGATE #1 (660'FSL & 630'FWL SEC.29, 7503'MD) Well: TOLLGATE #1 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5825.00†	5624.12	-825.80	1077.78	5585.12	5624.12	-1546.50	-1476.37	125.51	2653.88	194.04	13.71	PASS
5925.00†	5719.55	-843.98	1101.50	5680.55	5719.55	-1546.50	-1476.37	126.01	2671.88	196.76	13.61	PASS
6025.00†	5814.98	-862.15	1125.22	5775.98	5814.98	-1546.50	-1476.37	126.51	2690.10	199.48	13.52	PASS
6125.00†	5910.41	-880.33	1148.94	5871.41	5910.41	-1546.50	-1476.37	127.01	2708.52	202.20	13.43	PASS
6225.00†	6005.84	-898.50	1172.66	5966.84	6005.84	-1546.50	-1476.37	127.49	2727.14	204.92	13.34	PASS
6325.00†	6101.27	-916.68	1196.38	6062.27	6101.27	-1546.50	-1476.37	127.97	2745.96	207.65	13.26	PASS
6337.66	6113.36	-918.98	1199.39	6074.36	6113.36	-1546.50	-1476.37	128.04	2748.36	207.99	13.25	PASS
6425.00†	6197.68	-935.35	1214.89	6158.68	6197.68	-1546.50	-1476.37	108.13	2759.79	210.40	13.15	PASS
6525.00†	6295.51	-955.09	1219.69	6256.51	6295.51	-1546.50	-1476.37	71.85	2760.17	213.32	12.97	PASS
6625.00†	6392.89	-975.53	1210.57	6353.89	6392.89	-1546.50	-1476.37	41.19	2746.94	216.24	12.73	PASS
6725.00†	6487.92	-996.27	1187.72	6448.92	6487.92	-1546.50	-1476.37	24.87	2720.32	219.10	12.44	PASS
6825.00†	6578.76	-1016.92	1151.57	6539.76	6578.76	-1546.50	-1476.37	16.09	2680.77	221.74	12.12	PASS
6925.00†	6663.63	-1037.05	1102.83	6624.63	6663.63	-1546.50	-1476.37	10.62	2629.04	224.11	11.76	PASS
7025.00†	6740.88	-1056.30	1042.46	6701.88	6740.88	-1546.50	-1476.37	6.60	2566.09	226.21	11.37	PASS
7125.00†	6809.01	-1074.27	971.61	6770.01	6809.01	-1546.50	-1476.37	3.02	2493.12	228.02	10.96	PASS
7225.00†	6866.70	-1090.62	891.68	6827.70	6866.70	-1546.50	-1476.37	-0.93	2411.54	229.53	10.53	PASS
7325.00†	6912.82	-1105.03	804.22	6873.82	6912.82	-1546.50	-1476.37	-6.43	2322.93	230.73	10.09	PASS
7425.00†	6946.47	-1117.23	710.93	6907.47	6946.47	-1546.50	-1476.37	-16.28	2229.03	231.64	9.64	PASS
7525.00†	6966.99	-1126.96	613.63	6927.99	6966.99	-1546.50	-1476.37	-39.35	2131.70	232.25	9.20	PASS
7625.00†	6974.00	-1134.06	514.21	6935.00	6974.00	-1546.50	-1476.37	-89.31	2032.87	232.59	8.76	PASS
7626.30	6974.00	-1134.13	512.92	6935.00	6974.00	-1546.50	-1476.37	-90.00	2031.58	232.59	8.75	PASS
7725.00†	6974.00	-1139.74	414.37	6935.00	6974.00	-1546.50	-1476.37	-90.00	1934.01	232.81	8.32	PASS
7825.00†	6974.00	-1145.42	314.54	6935.00	6974.00	-1546.50	-1476.37	-90.00	1835.27	233.08	7.89	PASS
7925.00†	6974.00	-1151.10	214.70	6935.00	6974.00	-1546.50	-1476.37	-90.00	1736.68	233.41	7.46	PASS
8025.00†	6974.00	-1156.78	114.86	6935.00	6974.00	-1546.50	-1476.37	-90.00	1638.26	233.81	7.02	PASS
8125.00†	6974.00	-1162.47	15.02	6935.00	6974.00	-1546.50	-1476.37	-90.00	1540.04	234.30	6.59	PASS
8225.00†	6974.00	-1168.15	-84.82	6935.00	6974.00	-1546.50	-1476.37	-90.00	1442.07	234.90	6.15	PASS
8325.00†	6974.00	-1173.83	-184.66	6935.00	6974.00	-1546.50	-1476.37	-90.00	1344.40	235.65	5.72	PASS
8425.00†	6974.00	-1179.51	-284.49	6935.00	6974.00	-1546.50	-1476.37	-90.00	1247.10	236.59	5.28	PASS
8525.00†	6974.00	-1185.20	-384.33	6935.00	6974.00	-1546.50	-1476.37	-90.00	1150.26	237.78	4.85	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: TOLLGATE #1 AWB Offset Wellpath: TOLLGATE #1 AWP

Facility: SEC.29-T06N-R66W Slot: SLOT#01 TOLLGATE #1 (660'FSL & 630'FWL SEC.29, 7503'MD) Well: TOLLGATE #1 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8625.00†	6974.00	-1190.88	-484.17	6935.00	6974.00	-1546.50	-1476.37	-90.00	1054.01	239.31	4.41	PASS
8725.00†	6974.00	-1196.56	-584.01	6935.00	6974.00	-1546.50	-1476.37	-90.00	958.52	241.30	3.98	PASS
8825.00†	6974.00	-1202.24	-683.85	6935.00	6974.00	-1546.50	-1476.37	-90.00	864.06	243.90	3.55	PASS
8925.00†	6974.00	-1207.92	-783.69	6935.00	6974.00	-1546.50	-1476.37	-90.00	771.00	247.38	3.12	PASS
9025.00†	6974.00	-1213.61	-883.52	6935.00	6974.00	-1546.50	-1476.37	-90.00	679.92	252.07	2.70	PASS
9125.00†	6974.00	-1219.29	-983.36	6935.00	6974.00	-1546.50	-1476.37	-90.00	591.71	258.47	2.29	PASS
9225.00†	6974.00	-1224.97	-1083.20	6935.00	6974.00	-1546.50	-1476.37	-90.00	507.90	267.22	1.90	PASS
9325.00†	6974.00	-1230.65	-1183.04	6935.00	6974.00	-1546.50	-1476.37	-90.00	431.05	279.00	1.55	PASS
9425.00†	6974.00	-1236.33	-1282.88	6935.00	6974.00	-1546.50	-1476.37	-90.00	365.57	293.87	1.24	PASS
9525.00†	6974.00	-1242.02	-1382.72	6935.00	6974.00	-1546.50	-1476.37	-90.00	318.56	309.39	1.03	PASS
9625.00†	6974.00	-1247.70	-1482.56	6935.00	6974.00	-1546.50	-1476.37	-90.00	298.86	318.88	0.94	FAIL
9635.99†	6974.00	-1248.32	-1493.53	6935.70	6974.70	-1546.50	-1476.37	-90.13	298.67	319.23	0.94	FAIL
9640.75†	6974.00	-1248.59	-1498.28	6935.00	6974.00	-1546.50	-1476.37	-90.00	298.71	319.32	0.94	FAIL
9725.00†	6974.00	-1253.38	-1582.39	6935.00	6974.00	-1546.50	-1476.37	-90.00	311.70	316.35	0.99	FAIL
9825.00†	6974.00	-1259.06	-1682.23	6935.00	6974.00	-1546.50	-1476.37	-90.00	353.55	304.88	1.16	PASS
9925.00†	6974.00	-1264.75	-1782.07	6935.00	6974.00	-1546.50	-1476.37	-90.00	415.73	291.53	1.43	PASS
10025.00†	6974.00	-1270.43	-1881.91	6935.00	6974.00	-1546.50	-1476.37	-90.00	490.58	279.98	1.75	PASS
10125.00†	6974.00	-1276.11	-1981.75	6935.00	6974.00	-1546.50	-1476.37	-90.00	573.16	270.93	2.12	PASS
10225.00†	6974.00	-1281.79	-2081.59	6935.00	6974.00	-1546.50	-1476.37	-90.00	660.57	264.03	2.50	PASS
10325.00†	6974.00	-1287.47	-2181.42	6935.00	6974.00	-1546.50	-1476.37	-90.00	751.13	258.76	2.91	PASS
10425.00†	6974.00	-1293.16	-2281.26	6935.00	6974.00	-1546.50	-1476.37	-90.00	843.82	254.70	3.32	PASS
10525.00†	6974.00	-1298.84	-2381.10	6935.00	6974.00	-1546.50	-1476.37	-90.00	938.01	251.53	3.74	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: TOLLGATE #1 AWB Offset Wellpath: TOLLGATE #1 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

HOLE & CASING SECTIONS - Offset Wellbore: TOLLGATE #1 AWB Offset Wellpath: TOLLGATE #1 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	0.00	304.00	304.00	14.00	318.00	-942.72	-900.03	-942.72	-900.03
8.625in Casing Surface	0.00	304.00	304.00	14.00	318.00	-942.72	-900.03	-942.72	-900.03
7.875in Open Hole	304.00	7616.00	7312.00	318.00	N/A	-942.72	-900.03	N/A	N/A
4.5in Casing Production	0.00	7616.00	7616.00	14.00	N/A	-942.72	-900.03	N/A	N/A

WELLPATH COMPOSITION - Offset Wellbore: TOLLGATE #1 AWB Offset Wellpath: TOLLGATE #1 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7503.00	Drift Indicator - Inclination Only (Actual Survey)	DRIFT INDICATOR TO TD <7503' FROM CO WEBSITE>	TOLLGATE #1 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: TOLLGATE #1 AWB Offset Wellpath: TOLLGATE #1 AWP

MD Reference: Rig on SLOT#01 TOLLGATE #1 (660'FSL & 630'FWL SEC.29, 7503'MD) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 34C-30-M PWB Offset Wellpath: GOETZEL 34C-30-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#24 GOETZEL 34C-30-M (2097'FSL & 2053'FWL, SEC.29) Well: GOETZEL 34C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	25.00	25.00	-80.15	-0.85	-179.39	80.15	1.72	131.71	PASS
125.00†	125.00	0.00	0.00	125.00	125.00	-80.15	-0.85	-179.39	80.15	2.05	85.56	PASS
225.00†	225.00	0.00	0.00	225.00	225.00	-80.15	-0.85	-179.39	80.15	2.62	52.87	PASS
325.00†	325.00	0.00	0.00	324.45	324.45	-80.23	-0.79	-179.44	80.24	3.22	37.79	PASS
425.00†	425.00	0.00	0.00	422.16	422.12	-82.27	0.66	179.54	82.32	4.02	28.01	PASS
525.00†	525.00	0.00	0.00	519.59	519.38	-87.00	4.03	177.35	87.28	5.13	21.49	PASS
625.00†	625.00	0.00	0.00	616.52	615.87	-94.38	9.28	174.39	95.27	6.14	18.76	PASS
725.00†	725.00	0.00	0.00	712.72	711.29	-104.33	16.36	171.09	106.49	7.10	17.63	PASS
825.00†	825.00	0.00	0.00	807.99	805.34	-116.75	25.19	167.82	121.05	8.02	17.39	PASS
850.00	850.00	0.00	0.00	831.64	828.60	-120.23	27.67	167.04	125.21	8.24	17.45	PASS
925.00†	924.99	-0.60	0.78	902.33	897.90	-131.55	35.73	37.43	138.22	8.97	17.48	PASS
1025.00†	1024.89	-3.25	4.24	996.06	989.24	-148.71	47.94	35.40	156.01	9.91	17.64	PASS
1125.00†	1124.58	-8.02	10.47	1089.23	1079.28	-168.17	61.78	34.07	174.16	10.93	17.64	PASS
1225.00†	1223.93	-14.91	19.45	1181.82	1167.96	-189.86	77.22	33.25	192.56	11.94	17.70	PASS
1325.00†	1322.83	-23.90	31.19	1273.85	1255.21	-213.72	94.20	32.80	211.13	12.80	17.99	PASS
1425.00†	1421.15	-34.98	45.65	1366.96	1342.49	-240.10	112.97	32.64	229.77	13.81	18.02	PASS
1525.00†	1518.77	-48.14	62.83	1465.54	1434.60	-268.74	133.34	32.88	246.41	14.69	18.09	PASS
1625.00†	1615.58	-63.37	82.71	1564.52	1527.08	-297.48	153.80	33.53	260.19	15.62	17.88	PASS
1719.36	1706.08	-79.61	103.91	1658.17	1614.58	-324.68	173.15	34.47	270.60	16.07	17.80	PASS
1725.00†	1711.46	-80.64	105.24	1663.78	1619.81	-326.31	174.31	34.54	271.15	16.09	17.81	PASS
1825.00†	1806.89	-98.81	128.96	1763.12	1712.63	-355.16	194.84	35.77	280.96	16.15	18.15	PASS
1925.00†	1902.32	-116.99	152.69	1862.46	1805.45	-384.02	215.37	36.91	290.89	16.41	18.48	PASS
2025.00†	1997.75	-135.16	176.41	1961.80	1898.26	-412.87	235.90	37.98	300.93	16.79	18.67	PASS
2125.00†	2093.18	-153.34	200.13	2061.15	1991.08	-441.72	256.43	38.98	311.06	17.27	18.73	PASS
2225.00†	2188.61	-171.51	223.85	2160.49	2083.90	-470.58	276.96	39.92	321.29	17.87	18.68	PASS
2325.00†	2284.04	-189.69	247.57	2259.83	2176.72	-499.43	297.49	40.80	331.59	18.55	18.54	PASS
2425.00†	2379.48	-207.86	271.29	2359.17	2269.53	-528.28	318.02	41.63	341.97	19.32	18.33	PASS
2525.00†	2474.91	-226.04	295.01	2458.52	2362.35	-557.13	338.56	42.40	352.41	20.17	18.07	PASS
2625.00†	2570.34	-244.21	318.73	2557.86	2455.17	-585.99	359.09	43.14	362.91	21.08	17.78	PASS
2725.00†	2665.77	-262.39	342.45	2657.20	2547.98	-614.84	379.62	43.83	373.47	22.06	17.46	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 34C-30-M PWB Offset Wellpath: GOETZEL 34C-30-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#24 GOETZEL 34C-30-M (2097'FSL & 2053'FWL, SEC.29) Well: GOETZEL 34C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2825.00†	2761.20	-280.56	366.17	2756.54	2640.80	-643.69	400.15	44.48	384.08	23.08	17.13	PASS
2925.00†	2856.63	-298.74	389.89	2855.89	2733.62	-672.55	420.68	45.10	394.73	24.15	16.81	PASS
3025.00†	2952.06	-316.91	413.61	2955.23	2826.43	-701.40	441.21	45.68	405.43	25.27	16.48	PASS
3125.00†	3047.49	-335.08	437.33	3054.57	2919.25	-730.25	461.74	46.24	416.17	26.41	16.16	PASS
3225.00†	3142.92	-353.26	461.05	3153.92	3012.07	-759.10	482.27	46.77	426.95	27.59	15.85	PASS
3325.00†	3238.35	-371.43	484.77	3253.26	3104.88	-787.96	502.80	47.27	437.76	28.80	15.56	PASS
3425.00†	3333.78	-389.61	508.49	3352.60	3197.70	-816.81	523.33	47.75	448.60	30.04	15.27	PASS
3525.00†	3429.21	-407.78	532.21	3451.94	3290.52	-845.66	543.86	48.20	459.47	31.29	15.00	PASS
3625.00†	3524.64	-425.96	555.93	3551.29	3383.34	-874.52	564.39	48.64	470.37	32.57	14.74	PASS
3725.00†	3620.07	-444.13	579.65	3650.63	3476.15	-903.37	584.92	49.05	481.29	33.86	14.50	PASS
3825.00†	3715.51	-462.31	603.37	3749.97	3568.97	-932.22	605.45	49.45	492.24	35.17	14.26	PASS
3925.00†	3810.94	-480.48	627.09	3849.31	3661.79	-961.07	625.98	49.82	503.21	36.49	14.04	PASS
4025.00†	3906.37	-498.66	650.81	3948.66	3754.60	-989.93	646.52	50.19	514.20	37.83	13.83	PASS
4125.00†	4001.80	-516.83	674.53	4048.00	3847.42	-1018.78	667.05	50.53	525.21	39.17	13.64	PASS
4225.00†	4097.23	-535.01	698.25	4147.34	3940.24	-1047.63	687.58	50.87	536.23	40.53	13.45	PASS
4325.00†	4192.66	-553.18	721.97	4246.69	4033.05	-1076.49	708.11	51.19	547.28	41.90	13.27	PASS
4425.00†	4288.09	-571.36	745.69	4346.03	4125.87	-1105.34	728.64	51.49	558.34	43.28	13.10	PASS
4525.00†	4383.52	-589.53	769.41	4445.37	4218.69	-1134.19	749.17	51.79	569.42	44.66	12.94	PASS
4625.00†	4478.95	-607.71	793.14	4544.71	4311.50	-1163.04	769.70	52.07	580.51	46.06	12.79	PASS
4725.00†	4574.38	-625.88	816.86	4644.06	4404.32	-1191.90	790.23	52.35	591.61	47.46	12.64	PASS
4825.00†	4669.81	-644.05	840.58	4743.40	4497.14	-1220.75	810.76	52.61	602.73	48.86	12.50	PASS
4925.00†	4765.24	-662.23	864.30	4842.74	4589.95	-1249.60	831.29	52.86	613.86	50.27	12.37	PASS
5025.00†	4860.67	-680.40	888.02	4942.08	4682.77	-1278.46	851.82	53.11	625.00	51.69	12.25	PASS
5125.00†	4956.11	-698.58	911.74	5041.43	4775.59	-1307.31	872.35	53.34	636.15	53.11	12.13	PASS
5225.00†	5051.54	-716.75	935.46	5140.77	4868.41	-1336.16	892.88	53.57	647.31	54.54	12.01	PASS
5325.00†	5146.97	-734.93	959.18	5240.11	4961.22	-1365.01	913.41	53.79	658.49	55.97	11.90	PASS
5425.00†	5242.40	-753.10	982.90	5339.45	5054.04	-1393.87	933.94	54.00	669.67	57.40	11.80	PASS
5525.00†	5337.83	-771.28	1006.62	5438.80	5146.86	-1422.72	954.47	54.21	680.86	58.84	11.70	PASS
5625.00†	5433.26	-789.45	1030.34	5538.14	5239.67	-1451.57	975.01	54.41	692.06	60.28	11.60	PASS
5725.00†	5528.69	-807.63	1054.06	5637.48	5332.49	-1480.43	995.54	54.60	703.26	61.73	11.51	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 34C-30-M PWB Offset Wellpath: GOETZEL 34C-30-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#24 GOETZEL 34C-30-M (2097'FSL & 2053'FWL, SEC.29) Well: GOETZEL 34C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5825.00†	5624.12	-825.80	1077.78	5736.83	5425.31	-1509.28	1016.07	54.79	714.48	63.18	11.43	PASS
5925.00†	5719.55	-843.98	1101.50	5836.17	5518.12	-1538.13	1036.60	54.97	725.70	64.63	11.34	PASS
6025.00†	5814.98	-862.15	1125.22	5935.51	5610.94	-1566.98	1057.13	55.15	736.92	66.08	11.26	PASS
6125.00†	5910.41	-880.33	1148.94	6034.85	5703.76	-1595.84	1077.66	55.32	748.16	67.54	11.18	PASS
6225.00†	6005.84	-898.50	1172.66	6134.20	5796.57	-1624.69	1098.19	55.48	759.40	69.00	11.11	PASS
6325.00†	6101.27	-916.68	1196.38	6233.54	5889.39	-1653.54	1118.72	55.64	770.65	70.46	11.04	PASS
6337.66	6113.36	-918.98	1199.39	6246.12	5901.15	-1657.20	1121.32	55.66	772.07	70.64	11.03	PASS
6425.00†	6197.68	-935.35	1214.89	6332.86	5982.19	-1682.39	1139.25	35.68	781.17	71.72	10.99	PASS
6525.00†	6295.51	-955.09	1219.69	6430.99	6073.87	-1710.89	1159.53	-1.53	789.92	72.53	10.99	PASS
6625.00†	6392.89	-975.53	1210.57	6526.03	6162.66	-1738.49	1179.17	-33.85	797.56	73.00	11.02	PASS
6725.00†	6487.92	-996.27	1187.72	6616.09	6246.81	-1764.65	1197.78	-52.29	805.38	73.27	11.09	PASS
6825.00†	6578.76	-1016.92	1151.57	6702.66	6328.47	-1790.28	1210.42	-63.10	814.98	73.54	11.18	PASS
6925.00†	6663.63	-1037.05	1102.83	6794.96	6416.30	-1818.36	1212.44	-70.35	826.82	74.18	11.24	PASS
7025.00†	6740.88	-1056.30	1042.46	6894.60	6510.37	-1849.04	1201.32	-75.80	840.72	75.33	11.26	PASS
7125.00†	6809.01	-1074.27	971.61	7003.68	6610.34	-1882.36	1173.56	-80.25	856.31	77.06	11.21	PASS
7225.00†	6866.70	-1090.62	891.68	7124.85	6714.99	-1918.14	1124.42	-84.12	872.91	79.39	11.09	PASS
7325.00†	6912.82	-1105.03	804.22	7261.18	6821.09	-1955.63	1047.82	-87.57	889.53	82.50	10.87	PASS
7425.00†	6946.47	-1117.23	710.93	7415.70	6921.81	-1992.92	937.14	-90.65	904.77	86.80	10.50	PASS
7525.00†	6966.99	-1126.96	613.63	7590.08	7005.00	-2026.31	788.07	-93.21	916.89	93.14	9.91	PASS
7625.00†	6974.00	-1134.06	514.21	7782.36	7053.71	-2050.20	604.21	-94.96	924.00	101.84	9.13	PASS
7626.30	6974.00	-1134.13	512.92	7784.95	7054.04	-2050.42	601.65	-94.97	924.05	101.97	9.12	PASS
7725.00†	6974.00	-1139.74	414.37	7931.39	7060.00	-2058.90	455.71	-95.34	924.10	109.66	8.48	PASS
7825.00†	6974.00	-1145.42	314.54	8031.38	7060.00	-2063.39	355.82	-95.35	922.92	115.70	8.02	PASS
7925.00†	6974.00	-1151.10	214.70	8131.38	7060.00	-2067.88	255.93	-95.35	921.73	122.14	7.58	PASS
8025.00†	6974.00	-1156.78	114.86	8231.37	7060.00	-2072.38	156.04	-95.36	920.54	128.90	7.18	PASS
8125.00†	6974.00	-1162.47	15.02	8331.36	7060.00	-2076.87	56.15	-95.37	919.36	135.95	6.79	PASS
8225.00†	6974.00	-1168.15	-84.82	8431.36	7060.00	-2081.36	-43.75	-95.38	918.17	143.24	6.44	PASS
8325.00†	6974.00	-1173.83	-184.66	8531.35	7060.00	-2085.86	-143.64	-95.38	916.99	150.74	6.11	PASS
8425.00†	6974.00	-1179.51	-284.49	8631.34	7060.00	-2090.35	-243.53	-95.39	915.80	158.40	5.80	PASS
8525.00†	6974.00	-1185.20	-384.33	8731.33	7060.00	-2094.84	-343.42	-95.40	914.62	166.22	5.52	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 34C-30-M PWB Offset Wellpath: GOETZEL 34C-30-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#24 GOETZEL 34C-30-M (2097'FSL & 2053'FWL, SEC.29) Well: GOETZEL 34C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8625.00†	6974.00	-1190.88	-484.17	8831.33	7060.00	-2099.33	-443.31	-95.40	913.43	174.17	5.26	PASS
8725.00†	6974.00	-1196.56	-584.01	8931.32	7060.00	-2103.83	-543.20	-95.41	912.25	182.24	5.02	PASS
8825.00†	6974.00	-1202.24	-683.85	9031.31	7060.00	-2108.32	-643.10	-95.42	911.06	190.40	4.80	PASS
8925.00†	6974.00	-1207.92	-783.69	9131.31	7060.00	-2112.81	-742.99	-95.42	909.88	198.65	4.59	PASS
9025.00†	6974.00	-1213.61	-883.52	9231.30	7060.00	-2117.30	-842.88	-95.43	908.69	206.97	4.40	PASS
9125.00†	6974.00	-1219.29	-983.36	9331.29	7060.00	-2121.80	-942.77	-95.44	907.51	215.37	4.22	PASS
9225.00†	6974.00	-1224.97	-1083.20	9431.28	7060.00	-2126.29	-1042.66	-95.45	906.32	223.82	4.06	PASS
9325.00†	6974.00	-1230.65	-1183.04	9531.28	7060.00	-2130.78	-1142.56	-95.45	905.13	232.32	3.90	PASS
9425.00†	6974.00	-1236.33	-1282.88	9631.27	7060.00	-2135.28	-1242.45	-95.46	903.95	240.88	3.76	PASS
9525.00†	6974.00	-1242.02	-1382.72	9731.26	7060.00	-2139.77	-1342.34	-95.47	902.76	249.47	3.63	PASS
9625.00†	6974.00	-1247.70	-1482.56	9831.26	7060.00	-2144.26	-1442.23	-95.47	901.58	258.11	3.50	PASS
9725.00†	6974.00	-1253.38	-1582.39	9931.25	7060.00	-2148.75	-1542.12	-95.48	900.39	266.77	3.38	PASS
9825.00†	6974.00	-1259.06	-1682.23	10031.24	7060.00	-2153.25	-1642.02	-95.49	899.21	275.47	3.27	PASS
9925.00†	6974.00	-1264.75	-1782.07	10131.23	7060.00	-2157.74	-1741.91	-95.50	898.02	284.20	3.17	PASS
10025.00†	6974.00	-1270.43	-1881.91	10231.23	7060.00	-2162.23	-1841.80	-95.50	896.84	292.95	3.07	PASS
10125.00†	6974.00	-1276.11	-1981.75	10331.22	7060.00	-2166.72	-1941.69	-95.51	895.65	301.73	2.97	PASS
10225.00†	6974.00	-1281.79	-2081.59	10431.21	7060.00	-2171.22	-2041.58	-95.52	894.47	310.53	2.88	PASS
10325.00†	6974.00	-1287.47	-2181.42	10531.21	7060.00	-2175.71	-2141.48	-95.53	893.28	319.34	2.80	PASS
10425.00†	6974.00	-1293.16	-2281.26	10631.20	7060.00	-2180.20	-2241.37	-95.53	892.10	328.18	2.72	PASS
10525.00†	6974.00	-1298.84	-2381.10	10731.19	7060.00	-2184.70	-2341.26	-95.54	890.91	337.03	2.65	PASS
10625.00†	6974.00	-1304.52	-2480.94	10831.19	7060.00	-2189.19	-2441.15	-95.55	889.73	345.90	2.58	PASS
10725.00†	6974.00	-1310.20	-2580.78	10931.18	7060.00	-2193.68	-2541.04	-95.56	888.54	354.78	2.51	PASS
10825.00†	6974.00	-1315.88	-2680.62	11031.17	7060.00	-2198.17	-2640.94	-95.56	887.36	363.67	2.44	PASS
10925.00†	6974.00	-1321.57	-2780.46	11131.16	7060.00	-2202.67	-2740.83	-95.57	886.17	372.58	2.38	PASS
11025.00†	6974.00	-1327.25	-2880.29	11231.16	7060.00	-2207.16	-2840.72	-95.58	884.99	381.50	2.32	PASS
11125.00†	6974.00	-1332.93	-2980.13	11331.15	7060.00	-2211.65	-2940.61	-95.58	883.80	390.43	2.27	PASS
11225.00†	6974.00	-1338.61	-3079.97	11431.14	7060.00	-2216.14	-3040.50	-95.59	882.62	399.37	2.21	PASS
11325.00†	6974.00	-1344.30	-3179.81	11531.14	7060.00	-2220.64	-3140.39	-95.60	881.43	408.31	2.16	PASS
11425.00†	6974.00	-1349.98	-3279.65	11631.13	7060.00	-2225.13	-3240.29	-95.61	880.25	417.27	2.11	PASS
11525.00†	6974.00	-1355.66	-3379.49	11731.12	7060.00	-2229.62	-3340.18	-95.62	879.06	426.23	2.06	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 34C-30-M PWB Offset Wellpath: GOETZEL 34C-30-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#24 GOETZEL 34C-30-M (2097'FSL & 2053'FWL, SEC.29) Well: GOETZEL 34C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11625.00†	6974.00	-1361.34	-3479.32	11831.11	7060.00	-2234.11	-3440.07	-95.62	877.88	435.20	2.02	PASS
11725.00†	6974.00	-1367.02	-3579.16	11931.11	7060.00	-2238.61	-3539.96	-95.63	876.69	444.18	1.98	PASS
11825.00†	6974.00	-1372.71	-3679.00	12031.10	7060.00	-2243.10	-3639.85	-95.64	875.51	453.17	1.93	PASS
11925.00†	6974.00	-1378.39	-3778.84	12131.09	7060.00	-2247.59	-3739.75	-95.65	874.32	462.16	1.89	PASS
12025.00†	6974.00	-1384.07	-3878.68	12231.09	7060.00	-2252.09	-3839.64	-95.65	873.14	471.15	1.85	PASS
12125.00†	6974.00	-1389.75	-3978.52	12331.08	7060.00	-2256.58	-3939.53	-95.66	871.95	480.15	1.82	PASS
12225.00†	6974.00	-1395.44	-4078.35	12431.07	7060.00	-2261.07	-4039.42	-95.67	870.77	489.16	1.78	PASS
12325.00†	6974.00	-1401.12	-4178.19	12531.06	7060.00	-2265.56	-4139.31	-95.68	869.58	498.17	1.75	PASS
12425.00†	6974.00	-1406.80	-4278.03	12631.06	7060.00	-2270.06	-4239.21	-95.68	868.40	507.19	1.71	PASS
12525.00†	6974.00	-1412.48	-4377.87	12731.05	7060.00	-2274.55	-4339.10	-95.69	867.21	516.21	1.68	PASS
12625.00†	6974.00	-1418.16	-4477.71	12831.04	7060.00	-2279.04	-4438.99	-95.70	866.03	525.23	1.65	PASS
12725.00†	6974.00	-1423.85	-4577.55	12931.04	7060.00	-2283.53	-4538.88	-95.71	864.84	534.26	1.62	PASS
12825.00†	6974.00	-1429.53	-4677.39	13031.03	7060.00	-2288.03	-4638.77	-95.72	863.66	543.30	1.59	PASS
12925.00†	6974.00	-1435.21	-4777.22	13131.02	7060.00	-2292.52	-4738.67	-95.72	862.47	552.33	1.56	PASS
13025.00†	6974.00	-1440.89	-4877.06	13231.01	7060.00	-2297.01	-4838.56	-95.73	861.29	561.37	1.53	PASS
13125.00†	6974.00	-1446.57	-4976.90	13331.01	7060.00	-2301.51	-4938.45	-95.74	860.11	570.41	1.51	PASS
13225.00†	6974.00	-1452.26	-5076.74	13431.00	7060.00	-2306.00	-5038.34	-95.75	858.92	579.46	1.48	PASS
13325.00†	6974.00	-1457.94	-5176.58	13530.99	7060.00	-2310.49	-5138.23	-95.76	857.74	588.50	1.46	PASS
13425.00†	6974.00	-1463.62	-5276.42	13630.99	7060.00	-2314.98	-5238.13	-95.76	856.55	597.55	1.43	PASS
13525.00†	6974.00	-1469.30	-5376.25	13730.98	7060.00	-2319.48	-5338.02	-95.77	855.37	606.61	1.41	PASS
13625.00†	6974.00	-1474.99	-5476.09	13830.97	7060.00	-2323.97	-5437.91	-95.78	854.18	615.66	1.39	PASS
13725.00†	6974.00	-1480.67	-5575.93	13930.97	7060.00	-2328.46	-5537.80	-95.79	853.00	624.72	1.37	PASS
13825.00†	6974.00	-1486.35	-5675.77	14030.96	7060.00	-2332.95	-5637.69	-95.80	851.81	633.78	1.34	PASS
13925.00†	6974.00	-1492.03	-5775.61	14130.95	7060.00	-2337.45	-5737.59	-95.80	850.63	642.84	1.32	PASS
14025.00†	6974.00	-1497.71	-5875.45	14230.94	7060.00	-2341.94	-5837.48	-95.81	849.44	651.90	1.30	PASS
14125.00†	6974.00	-1503.40	-5975.29	14330.94	7060.00	-2346.43	-5937.37	-95.82	848.26	660.97	1.28	PASS
14225.00†	6974.00	-1509.08	-6075.12	14430.93	7060.00	-2350.93	-6037.26	-95.83	847.07	670.04	1.26	PASS
14325.00†	6974.00	-1514.76	-6174.96	14530.92	7060.00	-2355.42	-6137.15	-95.84	845.89	679.11	1.25	PASS
14425.00†	6974.00	-1520.44	-6274.80	14630.92	7060.00	-2359.91	-6237.04	-95.84	844.71	688.18	1.23	PASS
14525.00†	6974.00	-1526.12	-6374.64	14730.91	7060.00	-2364.40	-6336.94	-95.85	843.52	697.25	1.21	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 34C-30-M PWB Offset Wellpath: GOETZEL 34C-30-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#24 GOETZEL 34C-30-M (2097'FSL & 2053'FWL, SEC.29) Well: GOETZEL 34C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14625.00†	6974.00	-1531.81	-6474.48	14830.90	7060.00	-2368.90	-6436.83	-95.86	842.34	706.32	1.19	PASS
14725.00†	6974.00	-1537.49	-6574.32	14930.89	7060.00	-2373.39	-6536.72	-95.87	841.15	715.40	1.18	PASS
14825.00†	6974.00	-1543.17	-6674.15	15030.89	7060.00	-2377.88	-6636.61	-95.88	839.97	724.47	1.16	PASS
14925.00†	6974.00	-1548.85	-6773.99	15130.88	7060.00	-2382.37	-6736.50	-95.89	838.78	733.55	1.14	PASS
15025.00†	6974.00	-1554.54	-6873.83	15230.87	7060.00	-2386.87	-6836.40	-95.89	837.60	742.63	1.13	PASS
15125.00†	6974.00	-1560.22	-6973.67	15330.87	7060.00	-2391.36	-6936.29	-95.90	836.41	751.71	1.11	PASS
15225.00†	6974.00	-1565.90	-7073.51	15430.86	7060.00	-2395.85	-7036.18	-95.91	835.23	760.79	1.10	PASS
15325.00†	6974.00	-1571.58	-7173.35	15530.85	7060.00	-2400.34	-7136.07	-95.92	834.05	769.87	1.08	PASS
15425.00†	6974.00	-1577.26	-7273.18	15630.84	7060.00	-2404.84	-7235.96	-95.93	832.86	778.95	1.07	PASS
15525.00†	6974.00	-1582.95	-7373.02	15730.84	7060.00	-2409.33	-7335.86	-95.94	831.68	788.04	1.06	PASS
15584.24†	6974.00	-1586.31	-7432.17	15769.14	7060.00	-2411.05	-7374.12	-95.94	831.24	792.03	1.05	PASS
15625.00†	6974.00	-1588.63	-7472.86	15769.14	7060.00	-2411.05	-7374.12	-95.94	832.78	791.61	1.05	PASS
15725.00†	6974.00	-1594.31	-7572.70	15769.14	7060.00	-2411.05	-7374.12	-95.94	844.92	782.88	1.08	PASS
15825.00†	6974.00	-1599.99	-7672.54	15769.14	7060.00	-2411.05	-7374.12	-95.94	868.48	764.37	1.14	PASS
15888.79	6974.00	-1603.62	-7736.23	15769.14	7060.00	-2411.05	-7374.12	-95.94	889.08	747.73	1.19	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 34C-30-M PWB Offset Wellpath: GOETZEL 34C-30-M REV-A.0 PWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 34C-30-M PWB Offset Wellpath: GOETZEL 34C-30-M REV-A.0 PWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	25.00	1700.00	1675.00	25.00	1653.66	-48.86	-0.52	-127.10	55.15
8.5in Open Hole	1700.00	15769.00	14069.00	1653.66	7060.00	-127.10	55.15	-759.32	-2247.85



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

SURVEY PROGRAM - Offset Wellbore: GOETZEL 34C-30-M REV-A.0 PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1700.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GOETZEL 34C-30-M PWB
1700.00	15769.14	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 34C-30-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 34C-30-M PWB Offset Wellpath: GOETZEL 34C-30-M REV-A.0 PWP

MD Reference: H&P 562 (25') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	25.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 12N-30A-M PWB Offset Wellpath: GOETZEL 12N-30A-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#16 GOETZEL 12N-30A-M (2257'FSL & 2053'FWL, SEC.29) Well: GOETZEL 12N-30A-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	25.00	25.00	80.15	0.54	0.39	80.15	1.73	131.71	PASS
125.00†	125.00	0.00	0.00	125.00	125.00	80.15	0.54	0.39	80.15	2.04	86.02	PASS
225.00†	225.00	0.00	0.00	225.00	225.00	80.15	0.54	0.39	80.15	2.61	53.20	PASS
325.00†	325.00	0.00	0.00	325.00	325.00	80.15	0.54	0.39	80.15	3.21	37.85	PASS
425.00†	425.00	0.00	0.00	425.00	425.00	80.15	0.54	0.39	80.15	3.83	29.25	PASS
525.00†	525.00	0.00	0.00	525.00	525.00	80.15	0.54	0.39	80.15	4.45	23.79	PASS
625.00†	625.00	0.00	0.00	625.00	625.00	80.15	0.54	0.39	80.15	5.07	20.04	PASS
725.00†	725.00	0.00	0.00	725.00	725.00	80.15	0.54	0.39	80.15	5.69	17.30	PASS
825.00†	825.00	0.00	0.00	825.00	825.00	80.15	0.54	0.39	80.15	6.32	15.22	PASS
850.00	850.00	0.00	0.00	850.00	850.00	80.15	0.54	0.39	80.15	6.47	14.78	PASS
925.00†	924.99	-0.60	0.78	924.99	924.99	80.15	0.54	-127.62	80.75	6.96	13.66	PASS
1025.00†	1024.89	-3.25	4.24	1024.89	1024.89	80.15	0.54	-129.95	83.48	7.70	12.52	PASS
1125.00†	1124.58	-8.02	10.47	1124.58	1124.58	80.15	0.54	-133.75	88.73	8.54	11.81	PASS
1225.00†	1223.93	-14.91	19.45	1223.93	1223.93	80.15	0.54	-138.47	96.92	9.42	11.55	PASS
1325.00†	1322.83	-23.90	31.19	1322.83	1322.83	80.15	0.54	-143.49	108.46	10.32	11.67	PASS
1425.00†	1421.15	-34.98	45.65	1421.15	1421.15	80.15	0.54	-148.34	123.65	11.23	12.13	PASS
1525.00†	1518.77	-48.14	62.83	1520.89	1520.89	79.98	1.40	-152.52	142.10	12.13	12.81	PASS
1625.00†	1615.58	-63.37	82.71	1621.91	1621.81	79.14	5.60	-155.33	162.15	13.08	13.47	PASS
1719.36	1706.08	-79.61	103.91	1717.74	1717.35	77.69	12.80	-157.01	182.13	13.34	14.36	PASS
1725.00†	1711.46	-80.64	105.24	1723.48	1723.07	77.58	13.33	-157.09	183.35	13.37	14.42	PASS
1825.00†	1806.89	-98.81	128.96	1825.99	1824.91	75.30	24.70	-158.03	203.75	13.63	15.72	PASS
1925.00†	1902.32	-116.99	152.69	1929.55	1927.31	72.27	39.80	-158.09	221.78	13.98	16.66	PASS
2025.00†	1997.75	-135.16	176.41	2033.92	2029.89	68.48	58.69	-157.46	237.41	14.40	17.29	PASS
2125.00†	2093.18	-153.34	200.13	2138.84	2132.22	63.94	81.35	-156.25	250.68	14.93	17.58	PASS
2225.00†	2188.61	-171.51	223.85	2244.01	2233.88	58.64	107.74	-154.51	261.73	15.57	17.57	PASS
2325.00†	2284.04	-189.69	247.57	2346.01	2331.61	52.90	136.37	-152.43	271.07	16.26	17.39	PASS
2425.00†	2379.48	-207.86	271.29	2445.12	2426.45	47.24	164.59	-150.47	280.48	17.03	17.14	PASS
2525.00†	2474.91	-226.04	295.01	2544.23	2521.29	41.58	192.81	-148.64	290.20	17.92	16.82	PASS
2625.00†	2570.34	-244.21	318.73	2643.34	2616.13	35.92	221.03	-146.94	300.19	18.90	16.46	PASS
2725.00†	2665.77	-262.39	342.45	2742.45	2710.97	30.25	249.24	-145.34	310.43	19.94	16.10	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 12N-30A-M PWB Offset Wellpath: GOETZEL 12N-30A-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#16 GOETZEL 12N-30A-M (2257'FSL & 2053'FWL, SEC.29) Well: GOETZEL 12N-30A-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2825.00†	2761.20	-280.56	366.17	2841.56	2805.81	24.59	277.46	-143.84	320.90	21.08	15.72	PASS
2925.00†	2856.63	-298.74	389.89	2940.67	2900.65	18.93	305.68	-142.44	331.57	22.29	15.33	PASS
3025.00†	2952.06	-316.91	413.61	3039.78	2995.49	13.27	333.90	-141.13	342.43	23.53	14.97	PASS
3125.00†	3047.49	-335.08	437.33	3138.89	3090.33	7.61	362.12	-139.90	353.45	24.82	14.63	PASS
3225.00†	3142.92	-353.26	461.05	3238.00	3185.16	1.95	390.34	-138.74	364.63	26.14	14.31	PASS
3325.00†	3238.35	-371.43	484.77	3337.11	3280.00	-3.71	418.56	-137.65	375.95	27.50	14.01	PASS
3425.00†	3333.78	-389.61	508.49	3436.22	3374.84	-9.38	446.78	-136.62	387.39	28.88	13.73	PASS
3525.00†	3429.21	-407.78	532.21	3535.33	3469.68	-15.04	475.00	-135.66	398.95	30.28	13.47	PASS
3625.00†	3524.64	-425.96	555.93	3634.44	3564.52	-20.70	503.22	-134.75	410.62	31.71	13.22	PASS
3725.00†	3620.07	-444.13	579.65	3733.55	3659.36	-26.36	531.43	-133.88	422.38	33.15	13.00	PASS
3825.00†	3715.51	-462.31	603.37	3832.66	3754.20	-32.02	559.65	-133.07	434.23	34.61	12.79	PASS
3925.00†	3810.94	-480.48	627.09	3931.77	3849.04	-37.68	587.87	-132.30	446.16	36.08	12.59	PASS
4025.00†	3906.37	-498.66	650.81	4030.88	3943.88	-43.34	616.09	-131.57	458.17	37.57	12.41	PASS
4125.00†	4001.80	-516.83	674.53	4129.99	4038.72	-49.00	644.31	-130.87	470.25	39.06	12.24	PASS
4225.00†	4097.23	-535.01	698.25	4229.10	4133.56	-54.67	672.53	-130.21	482.40	40.56	12.09	PASS
4325.00†	4192.66	-553.18	721.97	4328.21	4228.40	-60.33	700.75	-129.59	494.60	42.07	11.94	PASS
4425.00†	4288.09	-571.36	745.69	4427.32	4323.23	-65.99	728.97	-128.99	506.86	43.59	11.80	PASS
4525.00†	4383.52	-589.53	769.41	4526.43	4418.07	-71.65	757.19	-128.42	519.18	45.11	11.68	PASS
4625.00†	4478.95	-607.71	793.14	4625.54	4512.91	-77.31	785.41	-127.88	531.54	46.64	11.56	PASS
4725.00†	4574.38	-625.88	816.86	4724.65	4607.75	-82.97	813.63	-127.36	543.94	48.17	11.44	PASS
4825.00†	4669.81	-644.05	840.58	4823.76	4702.59	-88.63	841.84	-126.87	556.39	49.71	11.34	PASS
4925.00†	4765.24	-662.23	864.30	4922.88	4797.43	-94.30	870.06	-126.39	568.87	51.25	11.24	PASS
5025.00†	4860.67	-680.40	888.02	5021.99	4892.27	-99.96	898.28	-125.94	581.40	52.80	11.15	PASS
5125.00†	4956.11	-698.58	911.74	5121.10	4987.11	-105.62	926.50	-125.51	593.95	54.35	11.06	PASS
5225.00†	5051.54	-716.75	935.46	5220.21	5081.95	-111.28	954.72	-125.09	606.54	55.90	10.98	PASS
5325.00†	5146.97	-734.93	959.18	5319.32	5176.79	-116.94	982.94	-124.69	619.16	57.45	10.90	PASS
5425.00†	5242.40	-753.10	982.90	5418.43	5271.63	-122.60	1011.16	-124.31	631.81	59.01	10.83	PASS
5525.00†	5337.83	-771.28	1006.62	5517.54	5366.46	-128.26	1039.38	-123.94	644.48	60.56	10.76	PASS
5625.00†	5433.26	-789.45	1030.34	5616.65	5461.30	-133.93	1067.60	-123.59	657.18	62.12	10.69	PASS
5725.00†	5528.69	-807.63	1054.06	5715.76	5556.14	-139.59	1095.82	-123.25	669.91	63.68	10.63	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 12N-30A-M PWB Offset Wellpath: GOETZEL 12N-30A-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#16 GOETZEL 12N-30A-M (2257'FSL & 2053'FWL, SEC.29) Well: GOETZEL 12N-30A-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5825.00†	5624.12	-825.80	1077.78	5814.87	5650.98	-145.25	1124.04	-122.92	682.65	65.25	10.57	PASS
5925.00†	5719.55	-843.98	1101.50	5913.98	5745.82	-150.91	1152.25	-122.61	695.42	66.81	10.51	PASS
6025.00†	5814.98	-862.15	1125.22	6013.09	5840.66	-156.57	1180.47	-122.30	708.21	68.38	10.46	PASS
6125.00†	5910.41	-880.33	1148.94	6115.67	5938.96	-162.46	1209.20	-122.04	720.96	69.97	10.40	PASS
6225.00†	6005.84	-898.50	1172.66	6228.92	6050.19	-169.66	1228.58	-122.74	732.33	71.28	10.37	PASS
6325.00†	6101.27	-916.68	1196.38	6337.27	6158.15	-177.34	1230.49	-124.67	742.30	72.19	10.37	PASS
6337.66	6113.36	-918.98	1199.39	6350.42	6171.22	-178.32	1229.61	-124.98	743.53	72.26	10.38	PASS
6425.00†	6197.68	-935.35	1214.89	6438.69	6258.34	-185.07	1217.48	-148.32	752.73	73.04	10.40	PASS
6525.00†	6295.51	-955.09	1219.69	6535.65	6351.47	-192.81	1191.91	171.73	764.83	73.75	10.46	PASS
6625.00†	6392.89	-975.53	1210.57	6628.83	6436.91	-200.43	1155.68	137.70	778.29	74.60	10.52	PASS
6725.00†	6487.92	-996.27	1187.72	6718.81	6514.25	-207.84	1110.42	118.38	792.65	75.84	10.54	PASS
6825.00†	6578.76	-1016.92	1151.57	6806.08	6583.27	-214.96	1057.57	107.01	807.46	77.54	10.50	PASS
6925.00†	6663.63	-1037.05	1102.83	6891.11	6643.82	-221.73	998.34	99.46	822.23	79.75	10.39	PASS
7025.00†	6740.88	-1056.30	1042.46	6974.25	6695.85	-228.11	933.86	94.00	836.49	82.54	10.21	PASS
7125.00†	6809.01	-1074.27	971.61	7055.86	6739.30	-234.04	865.09	89.87	849.82	85.93	9.96	PASS
7225.00†	6866.70	-1090.62	891.68	7136.20	6774.17	-239.50	792.96	86.69	861.81	89.89	9.66	PASS
7325.00†	6912.82	-1105.03	804.22	7215.54	6800.47	-244.44	718.32	84.26	872.14	94.36	9.30	PASS
7425.00†	6946.47	-1117.23	710.93	7294.08	6818.22	-248.84	641.98	82.47	880.51	99.20	8.93	PASS
7525.00†	6966.99	-1126.96	613.63	7372.02	6827.49	-252.66	564.72	81.26	886.71	104.24	8.56	PASS
7625.00†	6974.00	-1134.06	514.21	7458.53	6829.00	-256.30	478.32	80.63	890.37	109.59	8.17	PASS
7626.30	6974.00	-1134.13	512.92	7459.82	6829.00	-256.35	477.03	80.63	890.39	109.66	8.17	PASS
7725.00†	6974.00	-1139.74	414.37	7558.51	6829.00	-260.39	378.42	80.64	891.95	115.46	7.77	PASS
7825.00†	6974.00	-1145.42	314.54	7658.50	6829.00	-264.47	278.52	80.66	893.53	121.74	7.38	PASS
7925.00†	6974.00	-1151.10	214.70	7758.49	6829.00	-268.56	178.61	80.68	895.11	128.35	7.01	PASS
8025.00†	6974.00	-1156.78	114.86	7858.47	6829.00	-272.64	78.71	80.69	896.68	135.26	6.66	PASS
8125.00†	6974.00	-1162.47	15.02	7958.46	6829.00	-276.72	-21.19	80.71	898.26	142.41	6.33	PASS
8225.00†	6974.00	-1168.15	-84.82	8058.45	6829.00	-280.81	-121.10	80.73	899.84	149.78	6.03	PASS
8325.00†	6974.00	-1173.83	-184.66	8158.44	6829.00	-284.89	-221.00	80.74	901.42	157.33	5.75	PASS
8425.00†	6974.00	-1179.51	-284.49	8258.42	6829.00	-288.98	-320.91	80.76	903.00	165.04	5.49	PASS
8525.00†	6974.00	-1185.20	-384.33	8358.41	6829.00	-293.06	-420.81	80.78	904.57	172.88	5.25	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 12N-30A-M PWB Offset Wellpath: GOETZEL 12N-30A-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#16 GOETZEL 12N-30A-M (2257'FSL & 2053'FWL, SEC.29) Well: GOETZEL 12N-30A-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8625.00†	6974.00	-1190.88	-484.17	8458.40	6829.00	-297.15	-520.71	80.79	906.15	180.84	5.03	PASS
8725.00†	6974.00	-1196.56	-584.01	8558.38	6829.00	-301.23	-620.62	80.81	907.73	188.91	4.82	PASS
8825.00†	6974.00	-1202.24	-683.85	8658.37	6829.00	-305.32	-720.52	80.82	909.31	197.07	4.63	PASS
8925.00†	6974.00	-1207.92	-783.69	8758.36	6829.00	-309.40	-820.42	80.84	910.89	205.30	4.45	PASS
9025.00†	6974.00	-1213.61	-883.52	8858.35	6829.00	-313.49	-920.33	80.86	912.47	213.61	4.28	PASS
9125.00†	6974.00	-1219.29	-983.36	8958.33	6829.00	-317.57	-1020.23	80.87	914.04	221.98	4.13	PASS
9225.00†	6974.00	-1224.97	-1083.20	9058.32	6829.00	-321.66	-1120.14	80.89	915.62	230.41	3.98	PASS
9325.00†	6974.00	-1230.65	-1183.04	9158.31	6829.00	-325.74	-1220.04	80.90	917.20	238.88	3.85	PASS
9425.00†	6974.00	-1236.33	-1282.88	9258.30	6829.00	-329.83	-1319.94	80.92	918.78	247.40	3.72	PASS
9525.00†	6974.00	-1242.02	-1382.72	9358.28	6829.00	-333.91	-1419.85	80.93	920.36	255.97	3.60	PASS
9625.00†	6974.00	-1247.70	-1482.56	9458.27	6829.00	-338.00	-1519.75	80.95	921.94	264.56	3.49	PASS
9725.00†	6974.00	-1253.38	-1582.39	9558.26	6829.00	-342.08	-1619.65	80.97	923.52	273.20	3.39	PASS
9825.00†	6974.00	-1259.06	-1682.23	9658.24	6829.00	-346.16	-1719.56	80.98	925.10	281.86	3.29	PASS
9925.00†	6974.00	-1264.75	-1782.07	9758.23	6829.00	-350.25	-1819.46	81.00	926.67	290.55	3.19	PASS
10025.00†	6974.00	-1270.43	-1881.91	9858.22	6829.00	-354.33	-1919.37	81.01	928.25	299.27	3.11	PASS
10125.00†	6974.00	-1276.11	-1981.75	9958.21	6829.00	-358.42	-2019.27	81.03	929.83	308.00	3.02	PASS
10225.00†	6974.00	-1281.79	-2081.59	10058.19	6829.00	-362.50	-2119.17	81.04	931.41	316.76	2.94	PASS
10325.00†	6974.00	-1287.47	-2181.42	10158.18	6829.00	-366.59	-2219.08	81.06	932.99	325.54	2.87	PASS
10425.00†	6974.00	-1293.16	-2281.26	10258.17	6829.00	-370.67	-2318.98	81.07	934.57	334.34	2.80	PASS
10525.00†	6974.00	-1298.84	-2381.10	10358.15	6829.00	-374.76	-2418.88	81.09	936.15	343.16	2.73	PASS
10625.00†	6974.00	-1304.52	-2480.94	10458.14	6829.00	-378.84	-2518.79	81.10	937.73	351.99	2.67	PASS
10725.00†	6974.00	-1310.20	-2580.78	10558.13	6829.00	-382.93	-2618.69	81.12	939.31	360.83	2.61	PASS
10825.00†	6974.00	-1315.88	-2680.62	10658.12	6829.00	-387.01	-2718.60	81.13	940.89	369.69	2.55	PASS
10925.00†	6974.00	-1321.57	-2780.46	10758.10	6829.00	-391.10	-2818.50	81.15	942.47	378.56	2.49	PASS
11025.00†	6974.00	-1327.25	-2880.29	10858.09	6829.00	-395.18	-2918.40	81.16	944.05	387.44	2.44	PASS
11125.00†	6974.00	-1332.93	-2980.13	10958.08	6829.00	-399.27	-3018.31	81.18	945.63	396.34	2.39	PASS
11225.00†	6974.00	-1338.61	-3079.97	11058.06	6829.00	-403.35	-3118.21	81.19	947.21	405.24	2.34	PASS
11325.00†	6974.00	-1344.30	-3179.81	11158.05	6829.00	-407.44	-3218.11	81.21	948.79	414.15	2.29	PASS
11425.00†	6974.00	-1349.98	-3279.65	11258.04	6829.00	-411.52	-3318.02	81.22	950.37	423.07	2.25	PASS
11525.00†	6974.00	-1355.66	-3379.49	11358.03	6829.00	-415.60	-3417.92	81.24	951.95	432.01	2.21	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 12N-30A-M PWB Offset Wellpath: GOETZEL 12N-30A-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#16 GOETZEL 12N-30A-M (2257'FSL & 2053'FWL, SEC.29) Well: GOETZEL 12N-30A-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11625.00†	6974.00	-1361.34	-3479.32	11458.01	6829.00	-419.69	-3517.83	81.25	953.53	440.94	2.16	PASS
11725.00†	6974.00	-1367.02	-3579.16	11558.00	6829.00	-423.77	-3617.73	81.27	955.11	449.89	2.12	PASS
11825.00†	6974.00	-1372.71	-3679.00	11657.99	6829.00	-427.86	-3717.63	81.28	956.69	458.84	2.09	PASS
11925.00†	6974.00	-1378.39	-3778.84	11757.98	6829.00	-431.94	-3817.54	81.30	958.27	467.80	2.05	PASS
12025.00†	6974.00	-1384.07	-3878.68	11857.96	6829.00	-436.03	-3917.44	81.31	959.85	476.77	2.01	PASS
12125.00†	6974.00	-1389.75	-3978.52	11957.95	6829.00	-440.11	-4017.34	81.33	961.43	485.74	1.98	PASS
12225.00†	6974.00	-1395.44	-4078.35	12057.94	6829.00	-444.20	-4117.25	81.34	963.01	494.72	1.95	PASS
12325.00†	6974.00	-1401.12	-4178.19	12157.92	6829.00	-448.28	-4217.15	81.35	964.59	503.71	1.92	PASS
12425.00†	6974.00	-1406.80	-4278.03	12257.91	6829.00	-452.37	-4317.06	81.37	966.17	512.70	1.89	PASS
12525.00†	6974.00	-1412.48	-4377.87	12357.90	6829.00	-456.45	-4416.96	81.38	967.75	521.69	1.86	PASS
12625.00†	6974.00	-1418.16	-4477.71	12457.89	6829.00	-460.54	-4516.86	81.40	969.33	530.69	1.83	PASS
12725.00†	6974.00	-1423.85	-4577.55	12557.87	6829.00	-464.62	-4616.77	81.41	970.91	539.70	1.80	PASS
12825.00†	6974.00	-1429.53	-4677.39	12657.86	6829.00	-468.71	-4716.67	81.42	972.50	548.70	1.77	PASS
12925.00†	6974.00	-1435.21	-4777.22	12757.85	6829.00	-472.79	-4816.57	81.44	974.08	557.72	1.75	PASS
13025.00†	6974.00	-1440.89	-4877.06	12857.83	6829.00	-476.88	-4916.48	81.45	975.66	566.73	1.72	PASS
13125.00†	6974.00	-1446.57	-4976.90	12957.82	6829.00	-480.96	-5016.38	81.47	977.24	575.75	1.70	PASS
13225.00†	6974.00	-1452.26	-5076.74	13057.81	6829.00	-485.04	-5116.29	81.48	978.82	584.78	1.67	PASS
13325.00†	6974.00	-1457.94	-5176.58	13157.80	6829.00	-489.13	-5216.19	81.49	980.40	593.81	1.65	PASS
13425.00†	6974.00	-1463.62	-5276.42	13257.78	6829.00	-493.21	-5316.09	81.51	981.98	602.84	1.63	PASS
13525.00†	6974.00	-1469.30	-5376.25	13357.77	6829.00	-497.30	-5416.00	81.52	983.56	611.87	1.61	PASS
13625.00†	6974.00	-1474.99	-5476.09	13457.76	6829.00	-501.38	-5515.90	81.54	985.14	620.91	1.59	PASS
13725.00†	6974.00	-1480.67	-5575.93	13557.75	6829.00	-505.47	-5615.80	81.55	986.73	629.95	1.57	PASS
13825.00†	6974.00	-1486.35	-5675.77	13657.73	6829.00	-509.55	-5715.71	81.56	988.31	638.99	1.55	PASS
13925.00†	6974.00	-1492.03	-5775.61	13757.72	6829.00	-513.64	-5815.61	81.58	989.89	648.04	1.53	PASS
14025.00†	6974.00	-1497.71	-5875.45	13857.71	6829.00	-517.72	-5915.52	81.59	991.47	657.09	1.51	PASS
14125.00†	6974.00	-1503.40	-5975.29	13957.69	6829.00	-521.81	-6015.42	81.60	993.05	666.14	1.49	PASS
14225.00†	6974.00	-1509.08	-6075.12	14057.68	6829.00	-525.89	-6115.32	81.62	994.63	675.19	1.47	PASS
14325.00†	6974.00	-1514.76	-6174.96	14157.67	6829.00	-529.98	-6215.23	81.63	996.22	684.25	1.46	PASS
14425.00†	6974.00	-1520.44	-6274.80	14257.66	6829.00	-534.06	-6315.13	81.64	997.80	693.31	1.44	PASS
14525.00†	6974.00	-1526.12	-6374.64	14357.64	6829.00	-538.15	-6415.03	81.66	999.38	702.37	1.42	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 12N-30A-M PWB Offset Wellpath: GOETZEL 12N-30A-M REV-A.0 PWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 12N-30A-M PWB Offset Wellpath: GOETZEL 12N-30A-M REV-A.0 PWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	25.00	1700.00	1675.00	25.00	1699.68	48.86	0.33	48.21	3.59
8.5in Open Hole	1700.00	15682.00	13982.00	1699.68	6829.00	48.21	3.59	-156.09	-2358.46

SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: GOETZEL 12N-30A-M REV-A.0 PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1700.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GOETZEL 12N-30A-M PWB
1700.00	15682.69	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 12N-30A-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 12N-30A-M PWB Offset Wellpath: GOETZEL 12N-30A-M REV-A.0 PWP

MD Reference: PRECISION 562 (25') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	25.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 12N-30C-M PWB Offset Wellpath: GOETZEL 12N-30C-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#15 GOETZEL 12N-30C-M (2277'FSL & 2053'FWL, SEC.29) Well: GOETZEL 12N-30C-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	25.00	25.00	99.78	0.85	0.49	99.79	1.73	164.43	PASS
125.00†	125.00	0.00	0.00	125.00	125.00	99.78	0.85	0.49	99.79	2.04	107.42	PASS
225.00†	225.00	0.00	0.00	225.00	225.00	99.78	0.85	0.49	99.79	2.61	66.44	PASS
325.00†	325.00	0.00	0.00	325.00	325.00	99.78	0.85	0.49	99.79	3.21	47.27	PASS
425.00†	425.00	0.00	0.00	425.00	425.00	99.78	0.85	0.49	99.79	3.83	36.52	PASS
525.00†	525.00	0.00	0.00	525.00	525.00	99.78	0.85	0.49	99.79	4.45	29.71	PASS
625.00†	625.00	0.00	0.00	625.00	625.00	99.78	0.85	0.49	99.79	5.07	25.02	PASS
725.00†	725.00	0.00	0.00	725.00	725.00	99.78	0.85	0.49	99.79	5.69	21.60	PASS
825.00†	825.00	0.00	0.00	825.00	825.00	99.78	0.85	0.49	99.79	6.32	19.00	PASS
850.00	850.00	0.00	0.00	850.00	850.00	99.78	0.85	0.49	99.79	6.47	18.45	PASS
925.00†	924.99	-0.60	0.78	924.99	924.99	99.78	0.85	-127.41	100.38	6.95	17.03	PASS
1025.00†	1024.89	-3.25	4.24	1024.89	1024.89	99.78	0.85	-129.29	103.09	7.70	15.52	PASS
1125.00†	1124.58	-8.02	10.47	1124.58	1124.58	99.78	0.85	-132.43	108.23	8.53	14.47	PASS
1225.00†	1223.93	-14.91	19.45	1223.93	1223.93	99.78	0.85	-136.43	116.19	9.39	13.93	PASS
1325.00†	1322.83	-23.90	31.19	1322.83	1322.83	99.78	0.85	-140.85	127.34	10.27	13.79	PASS
1425.00†	1421.15	-34.98	45.65	1421.15	1421.15	99.78	0.85	-145.31	142.01	11.17	14.02	PASS
1525.00†	1518.77	-48.14	62.83	1518.77	1518.77	99.78	0.85	-149.50	160.38	12.07	14.55	PASS
1625.00†	1615.58	-63.37	82.71	1615.58	1615.58	99.78	0.85	-153.26	182.53	12.95	15.34	PASS
1719.36	1706.08	-79.61	103.91	1706.33	1706.33	99.78	0.86	-156.37	206.89	13.23	16.46	PASS
1725.00†	1711.46	-80.64	105.24	1711.94	1711.94	99.78	0.88	-156.56	208.43	13.26	16.55	PASS
1825.00†	1806.89	-98.81	128.96	1812.28	1812.25	99.66	3.05	-159.12	235.11	13.42	18.45	PASS
1925.00†	1902.32	-116.99	152.69	1914.18	1913.98	99.34	8.84	-160.51	260.05	13.71	19.94	PASS
2025.00†	1997.75	-135.16	176.41	2017.40	2016.75	98.80	18.39	-161.06	282.97	14.11	21.06	PASS
2125.00†	2093.18	-153.34	200.13	2121.70	2120.18	98.06	31.78	-160.96	303.76	14.60	21.82	PASS
2225.00†	2188.61	-171.51	223.85	2226.81	2223.85	97.09	49.08	-160.31	322.39	15.16	22.26	PASS
2325.00†	2284.04	-189.69	247.57	2332.47	2327.34	95.91	70.27	-159.20	338.93	15.81	22.39	PASS
2425.00†	2379.48	-207.86	271.29	2438.37	2430.22	94.51	95.33	-157.68	353.51	16.55	22.27	PASS
2525.00†	2474.91	-226.04	295.01	2544.24	2532.07	92.91	124.16	-155.77	366.31	17.38	21.93	PASS
2625.00†	2570.34	-244.21	318.73	2642.81	2626.38	91.31	152.78	-153.87	378.49	18.24	21.55	PASS
2725.00†	2665.77	-262.39	342.45	2741.30	2720.61	89.72	181.38	-152.09	391.06	19.19	21.12	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 12N-30C-M PWB Offset Wellpath: GOETZEL 12N-30C-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#15 GOETZEL 12N-30C-M (2277'FSL & 2053'FWL, SEC.29) Well: GOETZEL 12N-30C-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2825.00†	2761.20	-280.56	366.17	2839.78	2814.84	88.12	209.98	-150.43	403.98	20.23	20.66	PASS
2925.00†	2856.63	-298.74	389.89	2938.27	2909.07	86.53	238.58	-148.86	417.22	21.33	20.19	PASS
3025.00†	2952.06	-316.91	413.61	3036.76	3003.30	84.93	267.18	-147.40	430.75	22.49	19.74	PASS
3125.00†	3047.49	-335.08	437.33	3135.25	3097.53	83.34	295.78	-146.02	444.54	23.72	19.28	PASS
3225.00†	3142.92	-353.26	461.05	3233.73	3191.76	81.74	324.38	-144.72	458.58	24.99	18.86	PASS
3325.00†	3238.35	-371.43	484.77	3332.22	3285.99	80.15	352.97	-143.51	472.83	26.29	18.45	PASS
3425.00†	3333.78	-389.61	508.49	3430.71	3380.22	78.56	381.57	-142.36	487.28	27.63	18.07	PASS
3525.00†	3429.21	-407.78	532.21	3529.20	3474.45	76.96	410.17	-141.28	501.91	28.99	17.72	PASS
3625.00†	3524.64	-425.96	555.93	3627.69	3568.69	75.37	438.77	-140.26	516.71	30.38	17.39	PASS
3725.00†	3620.07	-444.13	579.65	3726.17	3662.92	73.77	467.37	-139.29	531.67	31.79	17.08	PASS
3825.00†	3715.51	-462.31	603.37	3824.66	3757.15	72.18	495.97	-138.38	546.76	33.21	16.80	PASS
3925.00†	3810.94	-480.48	627.09	3923.15	3851.38	70.58	524.57	-137.52	561.98	34.66	16.53	PASS
4025.00†	3906.37	-498.66	650.81	4021.64	3945.61	68.99	553.17	-136.70	577.32	36.11	16.29	PASS
4125.00†	4001.80	-516.83	674.53	4120.12	4039.84	67.39	581.77	-135.93	592.77	37.58	16.06	PASS
4225.00†	4097.23	-535.01	698.25	4218.61	4134.07	65.80	610.37	-135.19	608.32	39.06	15.85	PASS
4325.00†	4192.66	-553.18	721.97	4317.10	4228.30	64.21	638.97	-134.49	623.96	40.54	15.65	PASS
4425.00†	4288.09	-571.36	745.69	4415.59	4322.53	62.61	667.57	-133.83	639.69	42.04	15.46	PASS
4525.00†	4383.52	-589.53	769.41	4514.08	4416.76	61.02	696.16	-133.20	655.50	43.54	15.29	PASS
4625.00†	4478.95	-607.71	793.14	4612.56	4510.99	59.42	724.76	-132.59	671.39	45.05	15.13	PASS
4725.00†	4574.38	-625.88	816.86	4711.05	4605.22	57.83	753.36	-132.02	687.34	46.56	14.98	PASS
4825.00†	4669.81	-644.05	840.58	4809.54	4699.45	56.23	781.96	-131.47	703.36	48.08	14.83	PASS
4925.00†	4765.24	-662.23	864.30	4908.03	4793.68	54.64	810.56	-130.94	719.44	49.60	14.70	PASS
5025.00†	4860.67	-680.40	888.02	5006.52	4887.91	53.04	839.16	-130.44	735.58	51.13	14.57	PASS
5125.00†	4956.11	-698.58	911.74	5105.00	4982.14	51.45	867.76	-129.96	751.77	52.66	14.46	PASS
5225.00†	5051.54	-716.75	935.46	5203.49	5076.37	49.85	896.36	-129.50	768.01	54.19	14.35	PASS
5325.00†	5146.97	-734.93	959.18	5301.98	5170.60	48.26	924.96	-129.06	784.29	55.73	14.24	PASS
5425.00†	5242.40	-753.10	982.90	5400.47	5264.84	46.67	953.56	-128.63	800.62	57.27	14.14	PASS
5525.00†	5337.83	-771.28	1006.62	5498.95	5359.07	45.07	982.16	-128.23	816.99	58.81	14.05	PASS
5625.00†	5433.26	-789.45	1030.34	5597.44	5453.30	43.48	1010.76	-127.84	833.40	60.35	13.96	PASS
5725.00†	5528.69	-807.63	1054.06	5695.93	5547.53	41.88	1039.35	-127.46	849.85	61.90	13.88	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 12N-30C-M PWB Offset Wellpath: GOETZEL 12N-30C-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#15 GOETZEL 12N-30C-M (2277'FSL & 2053'FWL, SEC.29) Well: GOETZEL 12N-30C-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5825.00†	5624.12	-825.80	1077.78	5794.42	5641.76	40.29	1067.95	-127.10	866.32	63.45	13.80	PASS
5925.00†	5719.55	-843.98	1101.50	5892.91	5735.99	38.69	1096.55	-126.75	882.84	65.00	13.72	PASS
6025.00†	5814.98	-862.15	1125.22	5991.39	5830.22	37.10	1125.15	-126.42	899.38	66.55	13.65	PASS
6125.00†	5910.41	-880.33	1148.94	6089.88	5924.45	35.50	1153.75	-126.09	915.95	68.10	13.58	PASS
6225.00†	6005.84	-898.50	1172.66	6188.37	6018.68	33.91	1182.35	-125.78	932.55	69.65	13.52	PASS
6325.00†	6101.27	-916.68	1196.38	6289.74	6115.86	32.23	1211.10	-125.52	949.13	71.20	13.45	PASS
6337.66	6113.36	-918.98	1199.39	6303.47	6129.19	31.96	1214.38	-125.52	951.19	71.39	13.45	PASS
6425.00†	6197.68	-935.35	1214.89	6398.09	6222.43	29.74	1229.91	-147.24	965.52	72.46	13.45	PASS
6525.00†	6295.51	-955.09	1219.69	6506.18	6330.34	26.40	1232.47	174.54	982.19	73.57	13.47	PASS
6625.00†	6392.89	-975.53	1210.57	6613.90	6437.02	22.28	1218.86	142.09	998.82	75.07	13.42	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 12N-30C-M PWB Offset Wellpath: GOETZEL 12N-30C-M REV-A.0 PWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 12N-30C-M PWB Offset Wellpath: GOETZEL 12N-30C-M REV-A.0 PWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	25.00	1700.00	1675.00	25.00	1700.00	60.83	0.52	60.83	0.52
8.5in Open Hole	1700.00	15862.00	14162.00	1700.00	7008.00	60.83	0.52	-105.91	-2358.67



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

SURVEY PROGRAM - Offset Wellbore: GOETZEL 12N-30C-M REV-A.0 PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1700.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GOETZEL 12N-30C-M PWB
1700.00	15862.22	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 12N-30C-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 12N-30C-M PWB Offset Wellpath: GOETZEL 12N-30C-M REV-A.0 PWP

MD Reference: PRECISION 562 (25") (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	25.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: ETTER #30-32 AWB Offset Wellpath: ETTER #30-32 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#01 EX:ETTER #30-32 (1980'FSL & 803'FWL SEC.30, 7240'MD) Well: ETTER #30-32 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	8.00	25.00	-720.73	-7024.36	-95.86	7061.24	50.31	142.96	PASS
125.00†	125.00	0.00	0.00	108.00	125.00	-720.73	-7024.36	-95.86	7061.24	52.61	136.59	PASS
225.00†	225.00	0.00	0.00	208.00	225.00	-720.73	-7024.36	-95.86	7061.24	54.92	130.75	PASS
325.00†	325.00	0.00	0.00	308.00	325.00	-720.73	-7024.36	-95.86	7061.24	57.23	125.39	PASS
425.00†	425.00	0.00	0.00	408.00	425.00	-720.73	-7024.36	-95.86	7061.24	59.37	120.44	PASS
525.00†	525.00	0.00	0.00	508.00	525.00	-720.73	-7024.36	-95.86	7061.24	61.69	115.85	PASS
625.00†	625.00	0.00	0.00	608.00	625.00	-720.73	-7024.36	-95.86	7061.24	64.02	111.60	PASS
725.00†	725.00	0.00	0.00	708.00	725.00	-720.73	-7024.36	-95.86	7061.24	66.34	107.64	PASS
825.00†	825.00	0.00	0.00	808.00	825.00	-720.73	-7024.36	-95.86	7061.24	68.67	103.95	PASS
850.00	850.00	0.00	0.00	833.00	850.00	-720.73	-7024.36	-95.86	7061.24	69.26	103.06	PASS
925.00†	924.99	-0.60	0.78	907.99	924.99	-720.73	-7024.36	136.68	7061.95	71.01	100.50	PASS
1025.00†	1024.89	-3.25	4.24	1007.89	1024.89	-720.73	-7024.36	136.66	7065.12	73.37	97.28	PASS
1125.00†	1124.58	-8.02	10.47	1107.58	1124.58	-720.73	-7024.36	136.62	7070.84	75.74	94.28	PASS
1225.00†	1223.93	-14.91	19.45	1206.93	1223.93	-720.73	-7024.36	136.57	7079.09	78.11	91.50	PASS
1325.00†	1322.83	-23.90	31.19	1305.83	1322.83	-720.73	-7024.36	136.51	7089.87	80.48	88.92	PASS
1425.00†	1421.15	-34.98	45.65	1404.15	1421.15	-720.73	-7024.36	136.42	7103.19	82.84	86.52	PASS
1525.00†	1518.77	-48.14	62.83	1501.77	1518.77	-720.73	-7024.36	136.32	7119.03	85.21	84.28	PASS
1625.00†	1615.58	-63.37	82.71	1598.58	1615.58	-720.73	-7024.36	136.20	7137.40	87.58	82.19	PASS
1719.36	1706.08	-79.61	103.91	1689.08	1706.08	-720.73	-7024.36	136.06	7157.04	89.55	80.40	PASS
1725.00†	1711.46	-80.64	105.24	1694.46	1711.46	-720.73	-7024.36	136.07	7158.28	89.68	80.30	PASS
1825.00†	1806.89	-98.81	128.96	1789.89	1806.89	-720.73	-7024.36	136.24	7180.31	91.90	78.59	PASS
1925.00†	1902.32	-116.99	152.69	1885.32	1902.32	-720.73	-7024.36	136.40	7202.39	94.14	76.94	PASS
2025.00†	1997.75	-135.16	176.41	1980.75	1997.75	-720.73	-7024.36	136.56	7224.53	96.40	75.36	PASS
2125.00†	2093.18	-153.34	200.13	2076.18	2093.18	-720.73	-7024.36	136.72	7246.73	98.68	73.84	PASS
2225.00†	2188.61	-171.51	223.85	2171.61	2188.61	-720.73	-7024.36	136.87	7268.98	100.97	72.37	PASS
2325.00†	2284.04	-189.69	247.57	2267.04	2284.04	-720.73	-7024.36	137.03	7291.29	103.29	70.96	PASS
2425.00†	2379.48	-207.86	271.29	2362.48	2379.48	-720.73	-7024.36	137.19	7313.65	105.62	69.60	PASS
2525.00†	2474.91	-226.04	295.01	2457.91	2474.91	-720.73	-7024.36	137.34	7336.06	107.96	68.29	PASS
2625.00†	2570.34	-244.21	318.73	2553.34	2570.34	-720.73	-7024.36	137.50	7358.53	110.33	67.02	PASS
2725.00†	2665.77	-262.39	342.45	2648.77	2665.77	-720.73	-7024.36	137.65	7381.05	112.71	65.80	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: ETTER #30-32 AWB Offset Wellpath: ETTER #30-32 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#01 EX:ETTER #30-32 (1980'FSL & 803'FWL SEC.30, 7240'MD) Well: ETTER #30-32 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2825.00†	2761.20	-280.56	366.17	2744.20	2761.20	-720.73	-7024.36	137.80	7403.62	115.10	64.62	PASS
2925.00†	2856.63	-298.74	389.89	2839.63	2856.63	-720.73	-7024.36	137.95	7426.25	117.52	63.48	PASS
3025.00†	2952.06	-316.91	413.61	2935.06	2952.06	-720.73	-7024.36	138.10	7448.92	119.94	62.38	PASS
3125.00†	3047.49	-335.08	437.33	3030.49	3047.49	-720.73	-7024.36	138.26	7471.65	122.38	61.32	PASS
3225.00†	3142.92	-353.26	461.05	3125.92	3142.92	-720.73	-7024.36	138.40	7494.42	124.84	60.29	PASS
3325.00†	3238.35	-371.43	484.77	3221.35	3238.35	-720.73	-7024.36	138.55	7517.25	127.31	59.30	PASS
3425.00†	3333.78	-389.61	508.49	3316.78	3333.78	-720.73	-7024.36	138.70	7540.12	129.79	58.33	PASS
3525.00†	3429.21	-407.78	532.21	3412.21	3429.21	-720.73	-7024.36	138.85	7563.05	132.29	57.40	PASS
3625.00†	3524.64	-425.96	555.93	3507.64	3524.64	-720.73	-7024.36	138.99	7586.02	134.79	56.50	PASS
3725.00†	3620.07	-444.13	579.65	3603.07	3620.07	-720.73	-7024.36	139.14	7609.04	137.31	55.63	PASS
3825.00†	3715.51	-462.31	603.37	3698.51	3715.51	-720.73	-7024.36	139.28	7632.11	139.84	54.78	PASS
3925.00†	3810.94	-480.48	627.09	3793.94	3810.94	-720.73	-7024.36	139.42	7655.22	142.38	53.97	PASS
4025.00†	3906.37	-498.66	650.81	3889.37	3906.37	-720.73	-7024.36	139.57	7678.38	144.94	53.17	PASS
4125.00†	4001.80	-516.83	674.53	3984.80	4001.80	-720.73	-7024.36	139.71	7701.59	147.50	52.40	PASS
4225.00†	4097.23	-535.01	698.25	4080.23	4097.23	-720.73	-7024.36	139.85	7724.84	150.07	51.66	PASS
4325.00†	4192.66	-553.18	721.97	4175.66	4192.66	-720.73	-7024.36	139.99	7748.14	152.65	50.93	PASS
4425.00†	4288.09	-571.36	745.69	4271.09	4288.09	-720.73	-7024.36	140.13	7771.49	155.24	50.23	PASS
4525.00†	4383.52	-589.53	769.41	4366.52	4383.52	-720.73	-7024.36	140.26	7794.88	157.84	49.55	PASS
4625.00†	4478.95	-607.71	793.14	4461.95	4478.95	-720.73	-7024.36	140.40	7818.31	160.45	48.89	PASS
4725.00†	4574.38	-625.88	816.86	4557.38	4574.38	-720.73	-7024.36	140.54	7841.79	163.06	48.25	PASS
4825.00†	4669.81	-644.05	840.58	4652.81	4669.81	-720.73	-7024.36	140.68	7865.31	165.68	47.62	PASS
4925.00†	4765.24	-662.23	864.30	4748.24	4765.24	-720.73	-7024.36	140.81	7888.87	168.31	47.02	PASS
5025.00†	4860.67	-680.40	888.02	4843.67	4860.67	-720.73	-7024.36	140.94	7912.48	170.95	46.43	PASS
5125.00†	4956.11	-698.58	911.74	4939.11	4956.11	-720.73	-7024.36	141.08	7936.12	173.59	45.86	PASS
5225.00†	5051.54	-716.75	935.46	5034.54	5051.54	-720.73	-7024.36	141.21	7959.82	176.24	45.30	PASS
5325.00†	5146.97	-734.93	959.18	5129.97	5146.97	-720.73	-7024.36	141.34	7983.55	178.90	44.76	PASS
5425.00†	5242.40	-753.10	982.90	5225.40	5242.40	-720.73	-7024.36	141.47	8007.32	181.56	44.23	PASS
5525.00†	5337.83	-771.28	1006.62	5320.83	5337.83	-720.73	-7024.36	141.60	8031.13	184.22	43.72	PASS
5625.00†	5433.26	-789.45	1030.34	5416.26	5433.26	-720.73	-7024.36	141.73	8054.99	186.90	43.22	PASS
5725.00†	5528.69	-807.63	1054.06	5511.69	5528.69	-720.73	-7024.36	141.86	8078.88	189.57	42.74	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: ETTER #30-32 AWB Offset Wellpath: ETTER #30-32 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#01 EX:ETTER #30-32 (1980'FSL & 803'FWL SEC.30, 7240'MD) Well: ETTER #30-32 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5825.00†	5624.12	-825.80	1077.78	5607.12	5624.12	-720.73	-7024.36	141.99	8102.82	192.25	42.26	PASS
5925.00†	5719.55	-843.98	1101.50	5702.55	5719.55	-720.73	-7024.36	142.12	8126.79	194.94	41.80	PASS
6025.00†	5814.98	-862.15	1125.22	5797.98	5814.98	-720.73	-7024.36	142.25	8150.80	197.63	41.35	PASS
6125.00†	5910.41	-880.33	1148.94	5893.41	5910.41	-720.73	-7024.36	142.37	8174.86	200.33	40.92	PASS
6225.00†	6005.84	-898.50	1172.66	5988.84	6005.84	-720.73	-7024.36	142.50	8198.95	203.02	40.49	PASS
6325.00†	6101.27	-916.68	1196.38	6084.27	6101.27	-720.73	-7024.36	142.62	8223.07	205.73	40.07	PASS
6337.66	6113.36	-918.98	1199.39	6096.36	6113.36	-720.73	-7024.36	142.64	8226.13	206.07	40.02	PASS
6425.00†	6197.68	-935.35	1214.89	6180.68	6197.68	-720.73	-7024.36	122.19	8242.04	208.49	39.63	PASS
6525.00†	6295.51	-955.09	1219.69	6278.51	6295.51	-720.73	-7024.36	85.59	8247.38	211.50	39.09	PASS
6625.00†	6392.89	-975.53	1210.57	6375.89	6392.89	-720.73	-7024.36	54.91	8238.87	214.55	38.49	PASS
6725.00†	6487.92	-996.27	1187.72	6470.92	6487.92	-720.73	-7024.36	38.91	8216.70	217.54	37.86	PASS
6825.00†	6578.76	-1016.92	1151.57	6561.76	6578.76	-720.73	-7024.36	30.82	8181.29	220.24	37.24	PASS
6925.00†	6663.63	-1037.05	1102.83	6646.63	6663.63	-720.73	-7024.36	26.50	8133.34	222.62	36.62	PASS
7025.00†	6740.88	-1056.30	1042.46	6723.88	6740.88	-720.73	-7024.36	24.29	8073.79	224.67	36.02	PASS
7125.00†	6809.01	-1074.27	971.61	6792.01	6809.01	-720.73	-7024.36	23.52	8003.78	226.40	35.44	PASS
7225.00†	6866.70	-1090.62	891.68	6849.70	6866.70	-720.73	-7024.36	24.06	7924.68	227.79	34.87	PASS
7325.00†	6912.82	-1105.03	804.22	6895.82	6912.82	-720.73	-7024.36	26.30	7838.01	228.85	34.33	PASS
7425.00†	6946.47	-1117.23	710.93	6929.47	6946.47	-720.73	-7024.36	31.62	7745.45	229.59	33.81	PASS
7525.00†	6966.99	-1126.96	613.63	6949.99	6966.99	-720.73	-7024.36	45.26	7648.79	230.02	33.33	PASS
7625.00†	6974.00	-1134.06	514.21	6957.00	6974.00	-720.73	-7024.36	89.10	7549.89	230.15	32.88	PASS
7626.30	6974.00	-1134.13	512.92	6957.00	6974.00	-720.73	-7024.36	90.00	7548.60	230.16	32.87	PASS
7725.00†	6974.00	-1139.74	414.37	6957.00	6974.00	-720.73	-7024.36	90.00	7450.52	230.14	32.45	PASS
7825.00†	6974.00	-1145.42	314.54	6957.00	6974.00	-720.73	-7024.36	90.00	7351.17	230.14	32.02	PASS
7925.00†	6974.00	-1151.10	214.70	6957.00	6974.00	-720.73	-7024.36	90.00	7251.84	230.14	31.58	PASS
8025.00†	6974.00	-1156.78	114.86	6957.00	6974.00	-720.73	-7024.36	90.00	7152.52	230.16	31.15	PASS
8125.00†	6974.00	-1162.47	15.02	6957.00	6974.00	-720.73	-7024.36	90.00	7053.22	230.18	30.71	PASS
8225.00†	6974.00	-1168.15	-84.82	6957.00	6974.00	-720.73	-7024.36	90.00	6953.95	230.22	30.27	PASS
8325.00†	6974.00	-1173.83	-184.66	6957.00	6974.00	-720.73	-7024.36	90.00	6854.69	230.27	29.84	PASS
8425.00†	6974.00	-1179.51	-284.49	6957.00	6974.00	-720.73	-7024.36	90.00	6755.46	230.33	29.40	PASS
8525.00†	6974.00	-1185.20	-384.33	6957.00	6974.00	-720.73	-7024.36	90.00	6656.25	230.40	28.96	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: ETTER #30-32 AWB Offset Wellpath: ETTER #30-32 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#01 EX:ETTER #30-32 (1980'FSL & 803'FWL SEC.30, 7240'MD) Well: ETTER #30-32 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8625.00†	6974.00	-1190.88	-484.17	6957.00	6974.00	-720.73	-7024.36	90.00	6557.06	230.49	28.51	PASS
8725.00†	6974.00	-1196.56	-584.01	6957.00	6974.00	-720.73	-7024.36	90.00	6457.90	230.60	28.07	PASS
8825.00†	6974.00	-1202.24	-683.85	6957.00	6974.00	-720.73	-7024.36	90.00	6358.77	230.72	27.62	PASS
8925.00†	6974.00	-1207.92	-783.69	6957.00	6974.00	-720.73	-7024.36	90.00	6259.66	230.86	27.18	PASS
9025.00†	6974.00	-1213.61	-883.52	6957.00	6974.00	-720.73	-7024.36	90.00	6160.58	231.02	26.73	PASS
9125.00†	6974.00	-1219.29	-983.36	6957.00	6974.00	-720.73	-7024.36	90.00	6061.53	231.20	26.28	PASS
9225.00†	6974.00	-1224.97	-1083.20	6957.00	6974.00	-720.73	-7024.36	90.00	5962.51	231.40	25.82	PASS
9325.00†	6974.00	-1230.65	-1183.04	6957.00	6974.00	-720.73	-7024.36	90.00	5863.53	231.63	25.37	PASS
9425.00†	6974.00	-1236.33	-1282.88	6957.00	6974.00	-720.73	-7024.36	90.00	5764.58	231.89	24.92	PASS
9525.00†	6974.00	-1242.02	-1382.72	6957.00	6974.00	-720.73	-7024.36	90.00	5665.67	232.17	24.46	PASS
9625.00†	6974.00	-1247.70	-1482.56	6957.00	6974.00	-720.73	-7024.36	90.00	5566.80	232.48	24.00	PASS
9725.00†	6974.00	-1253.38	-1582.39	6957.00	6974.00	-720.73	-7024.36	90.00	5467.97	232.83	23.54	PASS
9825.00†	6974.00	-1259.06	-1682.23	6957.00	6974.00	-720.73	-7024.36	90.00	5369.18	233.20	23.07	PASS
9925.00†	6974.00	-1264.75	-1782.07	6957.00	6974.00	-720.73	-7024.36	90.00	5270.44	233.62	22.61	PASS
10025.00†	6974.00	-1270.43	-1881.91	6957.00	6974.00	-720.73	-7024.36	90.00	5171.74	234.08	22.14	PASS
10125.00†	6974.00	-1276.11	-1981.75	6957.00	6974.00	-720.73	-7024.36	90.00	5073.10	234.58	21.67	PASS
10225.00†	6974.00	-1281.79	-2081.59	6957.00	6974.00	-720.73	-7024.36	90.00	4974.51	235.12	21.20	PASS
10325.00†	6974.00	-1287.47	-2181.42	6957.00	6974.00	-720.73	-7024.36	90.00	4875.98	235.71	20.73	PASS
10425.00†	6974.00	-1293.16	-2281.26	6957.00	6974.00	-720.73	-7024.36	90.00	4777.51	236.36	20.26	PASS
10525.00†	6974.00	-1298.84	-2381.10	6957.00	6974.00	-720.73	-7024.36	90.00	4679.11	237.07	19.78	PASS
10625.00†	6974.00	-1304.52	-2480.94	6957.00	6974.00	-720.73	-7024.36	90.00	4580.77	237.83	19.30	PASS
10725.00†	6974.00	-1310.20	-2580.78	6957.00	6974.00	-720.73	-7024.36	90.00	4482.51	238.66	18.82	PASS
10825.00†	6974.00	-1315.88	-2680.62	6957.00	6974.00	-720.73	-7024.36	90.00	4384.32	239.56	18.34	PASS
10925.00†	6974.00	-1321.57	-2780.46	6957.00	6974.00	-720.73	-7024.36	90.00	4286.22	240.54	17.86	PASS
11025.00†	6974.00	-1327.25	-2880.29	6957.00	6974.00	-720.73	-7024.36	90.00	4188.21	241.60	17.37	PASS
11125.00†	6974.00	-1332.93	-2980.13	6957.00	6974.00	-720.73	-7024.36	90.00	4090.30	242.74	16.89	PASS
11225.00†	6974.00	-1338.61	-3079.97	6957.00	6974.00	-720.73	-7024.36	90.00	3992.49	243.98	16.40	PASS
11325.00†	6974.00	-1344.30	-3179.81	6957.00	6974.00	-720.73	-7024.36	90.00	3894.79	245.32	15.91	PASS
11425.00†	6974.00	-1349.98	-3279.65	6957.00	6974.00	-720.73	-7024.36	90.00	3797.21	246.77	15.42	PASS
11525.00†	6974.00	-1355.66	-3379.49	6957.00	6974.00	-720.73	-7024.36	90.00	3699.76	248.34	14.93	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: ETTER #30-32 AWB Offset Wellpath: ETTER #30-32 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#01 EX:ETTER #30-32 (1980'FSL & 803'FWL SEC.30, 7240'MD) Well: ETTER #30-32 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11625.00†	6974.00	-1361.34	-3479.32	6957.00	6974.00	-720.73	-7024.36	90.00	3602.45	250.03	14.44	PASS
11725.00†	6974.00	-1367.02	-3579.16	6957.00	6974.00	-720.73	-7024.36	90.00	3505.29	251.86	13.95	PASS
11825.00†	6974.00	-1372.71	-3679.00	6957.00	6974.00	-720.73	-7024.36	90.00	3408.30	253.84	13.45	PASS
11925.00†	6974.00	-1378.39	-3778.84	6957.00	6974.00	-720.73	-7024.36	90.00	3311.48	255.98	12.96	PASS
12025.00†	6974.00	-1384.07	-3878.68	6957.00	6974.00	-720.73	-7024.36	90.00	3214.86	258.30	12.47	PASS
12125.00†	6974.00	-1389.75	-3978.52	6957.00	6974.00	-720.73	-7024.36	90.00	3118.45	260.80	11.98	PASS
12225.00†	6974.00	-1395.44	-4078.35	6957.00	6974.00	-720.73	-7024.36	90.00	3022.28	263.51	11.49	PASS
12325.00†	6974.00	-1401.12	-4178.19	6957.00	6974.00	-720.73	-7024.36	90.00	2926.36	266.44	11.00	PASS
12425.00†	6974.00	-1406.80	-4278.03	6957.00	6974.00	-720.73	-7024.36	90.00	2830.72	269.62	10.52	PASS
12525.00†	6974.00	-1412.48	-4377.87	6957.00	6974.00	-720.73	-7024.36	90.00	2735.40	273.06	10.04	PASS
12625.00†	6974.00	-1418.16	-4477.71	6957.00	6974.00	-720.73	-7024.36	90.00	2640.42	276.80	9.56	PASS
12725.00†	6974.00	-1423.85	-4577.55	6957.00	6974.00	-720.73	-7024.36	90.00	2545.83	280.86	9.08	PASS
12825.00†	6974.00	-1429.53	-4677.39	6957.00	6974.00	-720.73	-7024.36	90.00	2451.67	285.27	8.61	PASS
12925.00†	6974.00	-1435.21	-4777.22	6957.00	6974.00	-720.73	-7024.36	90.00	2357.98	290.07	8.14	PASS
13025.00†	6974.00	-1440.89	-4877.06	6957.00	6974.00	-720.73	-7024.36	90.00	2264.84	295.31	7.68	PASS
13125.00†	6974.00	-1446.57	-4976.90	6957.00	6974.00	-720.73	-7024.36	90.00	2172.31	301.02	7.23	PASS
13225.00†	6974.00	-1452.26	-5076.74	6957.00	6974.00	-720.73	-7024.36	90.00	2080.47	307.27	6.78	PASS
13325.00†	6974.00	-1457.94	-5176.58	6957.00	6974.00	-720.73	-7024.36	90.00	1989.41	314.10	6.34	PASS
13425.00†	6974.00	-1463.62	-5276.42	6957.00	6974.00	-720.73	-7024.36	90.00	1899.26	321.59	5.91	PASS
13525.00†	6974.00	-1469.30	-5376.25	6957.00	6974.00	-720.73	-7024.36	90.00	1810.14	329.82	5.50	PASS
13625.00†	6974.00	-1474.99	-5476.09	6957.00	6974.00	-720.73	-7024.36	90.00	1722.21	338.85	5.09	PASS
13725.00†	6974.00	-1480.67	-5575.93	6957.00	6974.00	-720.73	-7024.36	90.00	1635.68	348.79	4.70	PASS
13825.00†	6974.00	-1486.35	-5675.77	6957.00	6974.00	-720.73	-7024.36	90.00	1550.76	359.74	4.32	PASS
13925.00†	6974.00	-1492.03	-5775.61	6957.00	6974.00	-720.73	-7024.36	90.00	1467.75	371.78	3.95	PASS
14025.00†	6974.00	-1497.71	-5875.45	6957.00	6974.00	-720.73	-7024.36	90.00	1386.97	385.01	3.61	PASS
14125.00†	6974.00	-1503.40	-5975.29	6957.00	6974.00	-720.73	-7024.36	90.00	1308.86	399.53	3.28	PASS
14225.00†	6974.00	-1509.08	-6075.12	6957.00	6974.00	-720.73	-7024.36	90.00	1233.91	415.37	2.97	PASS
14325.00†	6974.00	-1514.76	-6174.96	6957.00	6974.00	-720.73	-7024.36	90.00	1162.74	432.55	2.69	PASS
14425.00†	6974.00	-1520.44	-6274.80	6957.00	6974.00	-720.73	-7024.36	90.00	1096.07	450.95	2.43	PASS
14525.00†	6974.00	-1526.12	-6374.64	6957.00	6974.00	-720.73	-7024.36	90.00	1034.79	470.32	2.20	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: ETTER #30-32 AWB Offset Wellpath: ETTER #30-32 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#01 EX:ETTER #30-32 (1980'FSL & 803'FWL SEC.30, 7240'MD) Well: ETTER #30-32 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14625.00†	6974.00	-1531.81	-6474.48	6957.00	6974.00	-720.73	-7024.36	90.00	979.91	490.23	2.00	PASS
14725.00†	6974.00	-1537.49	-6574.32	6957.00	6974.00	-720.73	-7024.36	90.00	932.54	509.95	1.83	PASS
14825.00†	6974.00	-1543.17	-6674.15	6957.00	6974.00	-720.73	-7024.36	90.00	893.90	528.48	1.69	PASS
14925.00†	6974.00	-1548.85	-6773.99	6957.00	6974.00	-720.73	-7024.36	90.00	865.14	544.63	1.59	PASS
15025.00†	6974.00	-1554.54	-6873.83	6957.00	6974.00	-720.73	-7024.36	90.00	847.28	557.14	1.52	PASS
15125.00†	6974.00	-1560.22	-6973.67	6957.00	6974.00	-720.73	-7024.36	90.00	841.02	564.97	1.49	PASS
15130.00†	6974.00	-1560.50	-6978.66	6957.19	6974.19	-720.73	-7024.36	90.01	841.01	565.23	1.49	PASS
15166.25†	6974.00	-1562.56	-7014.85	6957.00	6974.00	-720.73	-7024.36	90.00	841.89	566.68	1.49	PASS
15225.00†	6974.00	-1565.90	-7073.51	6957.00	6974.00	-720.73	-7024.36	90.00	846.60	567.57	1.49	PASS
15325.00†	6974.00	-1571.58	-7173.35	6957.00	6974.00	-720.73	-7024.36	90.00	863.80	565.04	1.53	PASS
15425.00†	6974.00	-1577.26	-7273.18	6957.00	6974.00	-720.73	-7024.36	90.00	891.95	558.06	1.60	PASS
15525.00†	6974.00	-1582.95	-7373.02	6957.00	6974.00	-720.73	-7024.36	90.00	930.05	547.65	1.70	PASS
15625.00†	6974.00	-1588.63	-7472.86	6957.00	6974.00	-720.73	-7024.36	90.00	976.94	534.95	1.83	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: ETTER #30-32 AWB Offset Wellpath: ETTER #30-32 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: ETTER #30-32 AWB Offset Wellpath: ETTER #30-32 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	0.00	367.00	367.00	-8.00	359.00	-438.75	-4282.11	-438.75	-4282.11
8.625in Casing Surface	0.00	367.00	367.00	-8.00	359.00	-438.75	-4282.11	-438.75	-4282.11
7.875in Open Hole	367.00	7182.00	6815.00	359.00	7174.00	-438.75	-4282.11	-438.75	-4282.11
4.5in Casing Production	0.00	7182.00	7182.00	-8.00	7174.00	-438.75	-4282.11	-438.75	-4282.11



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

WELLPATH COMPOSITION - Offset Wellbore: ETTER #30-32 AWB Offset Wellpath: ETTER #30-32 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7240.00	Drift Indicator - Inclination Only (Actual Survey)	DRIFT INDICATOR TO TD <7240' FROM CO WEBSITE>	ETTER #30-32 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: ETTER #30-32 AWB Offset Wellpath: ETTER #30-32 AWP	
MD Reference: Rig on SLOT#01 EX:ETTER #30-32 (1980'FSL & 803'FWL SEC.30, 7240'MD) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL #29-10G6 AWB Offset Wellpath: GOETZEL #29-10G6 AWP

Facility: SEC.29-T06N-R66W Slot: SLOT#06 EX GOETZEL #29-10G6 (1974'FSL & 2013'FEL, SEC.29, PR, 7220') Well: GOETZEL #29-10G6 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	-8.00	25.00	-375.95	1457.13	104.47	1504.85	25.73	61.12	PASS
125.00†	125.00	0.00	0.00	92.00	125.00	-375.95	1457.13	104.47	1504.85	50.57	30.25	PASS
225.00†	225.00	0.00	0.00	192.00	225.00	-375.95	1457.13	104.47	1504.85	52.08	29.36	PASS
325.00†	325.00	0.00	0.00	292.00	325.00	-375.95	1457.13	104.47	1504.85	54.47	28.05	PASS
425.00†	425.00	0.00	0.00	392.00	425.00	-375.95	1457.13	104.47	1504.85	57.55	26.53	PASS
525.00†	525.00	0.00	0.00	492.00	525.00	-375.95	1457.13	104.47	1504.85	60.97	24.95	PASS
625.00†	625.00	0.00	0.00	592.00	625.00	-375.95	1457.13	104.47	1504.85	64.95	23.41	PASS
725.00†	725.00	0.00	0.00	692.00	725.00	-375.95	1457.13	104.47	1504.85	69.19	21.96	PASS
825.00†	825.00	0.00	0.00	792.00	825.00	-375.95	1457.13	104.47	1504.85	73.64	20.62	PASS
850.00	850.00	0.00	0.00	817.00	850.00	-375.95	1457.13	104.47	1504.85	74.78	20.30	PASS
925.00†	924.99	-0.60	0.78	891.99	924.99	-375.95	1457.13	-23.01	1503.95	78.25	19.38	PASS
1025.00†	1024.89	-3.25	4.24	991.89	1024.89	-375.95	1457.13	-23.11	1499.93	83.00	18.21	PASS
1125.00†	1124.58	-8.02	10.47	1091.58	1124.58	-375.95	1457.13	-23.29	1492.72	87.85	17.12	PASS
1225.00†	1223.93	-14.91	19.45	1190.93	1223.93	-375.95	1457.13	-23.54	1482.32	92.76	16.09	PASS
1325.00†	1322.83	-23.90	31.19	1289.83	1322.83	-375.95	1457.13	-23.88	1468.76	97.71	15.13	PASS
1425.00†	1421.15	-34.98	45.65	1388.15	1421.15	-375.95	1457.13	-24.31	1452.08	102.68	14.23	PASS
1525.00†	1518.77	-48.14	62.83	1485.77	1518.77	-375.95	1457.13	-24.84	1432.32	107.66	13.38	PASS
1625.00†	1615.58	-63.37	82.71	1582.58	1615.58	-375.95	1457.13	-25.46	1409.52	112.64	12.58	PASS
1719.36	1706.08	-79.61	103.91	1673.08	1706.08	-375.95	1457.13	-26.15	1385.29	117.09	11.88	PASS
1725.00†	1711.46	-80.64	105.24	1678.46	1711.46	-375.95	1457.13	-26.18	1383.77	117.36	11.83	PASS
1825.00†	1806.89	-98.81	128.96	1773.89	1806.89	-375.95	1457.13	-26.74	1356.77	122.20	11.14	PASS
1925.00†	1902.32	-116.99	152.69	1869.32	1902.32	-375.95	1457.13	-27.31	1329.90	127.08	10.50	PASS
2025.00†	1997.75	-135.16	176.41	1964.75	1997.75	-375.95	1457.13	-27.91	1303.17	131.98	9.91	PASS
2125.00†	2093.18	-153.34	200.13	2060.18	2093.18	-375.95	1457.13	-28.53	1276.57	136.91	9.35	PASS
2225.00†	2188.61	-171.51	223.85	2155.61	2188.61	-375.95	1457.13	-29.17	1250.12	141.88	8.84	PASS
2325.00†	2284.04	-189.69	247.57	2251.04	2284.04	-375.95	1457.13	-29.85	1223.82	146.87	8.36	PASS
2425.00†	2379.48	-207.86	271.29	2346.48	2379.48	-375.95	1457.13	-30.55	1197.70	151.88	7.91	PASS
2525.00†	2474.91	-226.04	295.01	2441.91	2474.91	-375.95	1457.13	-31.29	1171.76	156.92	7.49	PASS
2625.00†	2570.34	-244.21	318.73	2537.34	2570.34	-375.95	1457.13	-32.05	1146.00	161.99	7.09	PASS
2725.00†	2665.77	-262.39	342.45	2632.77	2665.77	-375.95	1457.13	-32.85	1120.45	167.07	6.72	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL #29-10G6 AWB Offset Wellpath: GOETZEL #29-10G6 AWP

Facility: SEC.29-T06N-R66W Slot: SLOT#06 EX GOETZEL #29-10G6 (1974'FSL & 2013'FEL, SEC.29, PR, 7220') Well: GOETZEL #29-10G6 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2825.00†	2761.20	-280.56	366.17	2728.20	2761.20	-375.95	1457.13	-33.69	1095.13	172.19	6.37	PASS
2925.00†	2856.63	-298.74	389.89	2823.63	2856.63	-375.95	1457.13	-34.56	1070.03	177.32	6.05	PASS
3025.00†	2952.06	-316.91	413.61	2919.06	2952.06	-375.95	1457.13	-35.48	1045.19	182.48	5.74	PASS
3125.00†	3047.49	-335.08	437.33	3014.49	3047.49	-375.95	1457.13	-36.44	1020.62	187.67	5.45	PASS
3225.00†	3142.92	-353.26	461.05	3109.92	3142.92	-375.95	1457.13	-37.44	996.34	192.87	5.18	PASS
3325.00†	3238.35	-371.43	484.77	3205.35	3238.35	-375.95	1457.13	-38.49	972.37	198.11	4.92	PASS
3425.00†	3333.78	-389.61	508.49	3300.78	3333.78	-375.95	1457.13	-39.59	948.74	203.36	4.67	PASS
3525.00†	3429.21	-407.78	532.21	3396.21	3429.21	-375.95	1457.13	-40.75	925.47	208.64	4.44	PASS
3625.00†	3524.64	-425.96	555.93	3491.64	3524.64	-375.95	1457.13	-41.96	902.59	213.94	4.23	PASS
3725.00†	3620.07	-444.13	579.65	3587.07	3620.07	-375.95	1457.13	-43.24	880.13	219.27	4.02	PASS
3825.00†	3715.51	-462.31	603.37	3682.51	3715.51	-375.95	1457.13	-44.57	858.12	224.62	3.83	PASS
3925.00†	3810.94	-480.48	627.09	3777.94	3810.94	-375.95	1457.13	-45.98	836.60	229.99	3.64	PASS
4025.00†	3906.37	-498.66	650.81	3873.37	3906.37	-375.95	1457.13	-47.45	815.60	235.40	3.47	PASS
4125.00†	4001.80	-516.83	674.53	3968.80	4001.80	-375.95	1457.13	-49.00	795.18	240.82	3.31	PASS
4225.00†	4097.23	-535.01	698.25	4064.23	4097.23	-375.95	1457.13	-50.62	775.37	246.28	3.15	PASS
4325.00†	4192.66	-553.18	721.97	4159.66	4192.66	-375.95	1457.13	-52.32	756.22	251.75	3.01	PASS
4425.00†	4288.09	-571.36	745.69	4255.09	4288.09	-375.95	1457.13	-54.10	737.79	257.26	2.87	PASS
4525.00†	4383.52	-589.53	769.41	4350.52	4383.52	-375.95	1457.13	-55.97	720.12	262.79	2.74	PASS
4625.00†	4478.95	-607.71	793.14	4445.95	4478.95	-375.95	1457.13	-57.92	703.28	268.34	2.62	PASS
4725.00†	4574.38	-625.88	816.86	4541.38	4574.38	-375.95	1457.13	-59.96	687.33	273.92	2.51	PASS
4825.00†	4669.81	-644.05	840.58	4636.81	4669.81	-375.95	1457.13	-62.08	672.33	279.52	2.41	PASS
4925.00†	4765.24	-662.23	864.30	4732.24	4765.24	-375.95	1457.13	-64.30	658.34	285.14	2.31	PASS
5025.00†	4860.67	-680.40	888.02	4827.67	4860.67	-375.95	1457.13	-66.60	645.43	290.78	2.22	PASS
5125.00†	4956.11	-698.58	911.74	4923.11	4956.11	-375.95	1457.13	-68.98	633.68	296.43	2.14	PASS
5225.00†	5051.54	-716.75	935.46	5018.54	5051.54	-375.95	1457.13	-71.44	623.13	302.09	2.06	PASS
5325.00†	5146.97	-734.93	959.18	5113.97	5146.97	-375.95	1457.13	-73.97	613.86	307.76	2.00	PASS
5425.00†	5242.40	-753.10	982.90	5209.40	5242.40	-375.95	1457.13	-76.57	605.92	313.43	1.93	PASS
5525.00†	5337.83	-771.28	1006.62	5304.83	5337.83	-375.95	1457.13	-79.23	599.37	319.09	1.88	PASS
5625.00†	5433.26	-789.45	1030.34	5400.26	5433.26	-375.95	1457.13	-81.93	594.25	324.75	1.83	PASS
5725.00†	5528.69	-807.63	1054.06	5495.69	5528.69	-375.95	1457.13	-84.68	590.60	330.40	1.79	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL #29-10G6 AWB Offset Wellpath: GOETZEL #29-10G6 AWP

Facility: SEC.29-T06N-R66W Slot: SLOT#06 EX GOETZEL #29-10G6 (1974'FSL & 2013'FEL, SEC.29, PR, 7220') Well: GOETZEL #29-10G6 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5825.00†	5624.12	-825.80	1077.78	5591.12	5624.12	-375.95	1457.13	-87.44	588.45	336.02	1.75	PASS
5915.94†	5710.90	-842.33	1099.35	5676.87	5709.87	-375.95	1457.13	-89.94	587.81	341.07	1.72	PASS
5925.00†	5719.55	-843.98	1101.50	5686.55	5719.55	-375.95	1457.13	-90.22	587.81	341.63	1.72	PASS
6025.00†	5814.98	-862.15	1125.22	5781.98	5814.98	-375.95	1457.13	-93.00	588.69	347.21	1.70	PASS
6125.00†	5910.41	-880.33	1148.94	5877.41	5910.41	-375.95	1457.13	-95.76	591.08	352.76	1.68	PASS
6225.00†	6005.84	-898.50	1172.66	5972.84	6005.84	-375.95	1457.13	-98.50	594.96	358.28	1.66	PASS
6325.00†	6101.27	-916.68	1196.38	6068.27	6101.27	-375.95	1457.13	-101.19	600.31	363.78	1.65	PASS
6337.66	6113.36	-918.98	1199.39	6080.36	6113.36	-375.95	1457.13	-101.53	601.09	364.47	1.65	PASS
6370.90†	6145.24	-925.09	1206.52	6112.24	6145.24	-375.95	1457.13	-108.94	603.63	366.27	1.65	PASS
6425.00†	6197.68	-935.35	1214.89	6164.68	6197.68	-375.95	1457.13	-124.51	609.59	369.24	1.65	PASS
6525.00†	6295.51	-955.09	1219.69	6262.51	6295.51	-375.95	1457.13	-163.52	625.92	374.67	1.67	PASS
6625.00†	6392.89	-975.53	1210.57	6359.89	6392.89	-375.95	1457.13	164.00	648.30	380.07	1.71	PASS
6725.00†	6487.92	-996.27	1187.72	6454.92	6487.92	-375.95	1457.13	146.71	676.30	385.45	1.76	PASS
6825.00†	6578.76	-1016.92	1151.57	6545.76	6578.76	-375.95	1457.13	137.58	710.07	390.79	1.82	PASS
6925.00†	6663.63	-1037.05	1102.83	6630.63	6663.63	-375.95	1457.13	132.12	750.06	396.02	1.90	PASS
7025.00†	6740.88	-1056.30	1042.46	6707.88	6740.88	-375.95	1457.13	128.22	796.76	401.02	1.99	PASS
7125.00†	6809.01	-1074.27	971.61	6776.01	6809.01	-375.95	1457.13	124.68	850.51	405.66	2.10	PASS
7225.00†	6866.70	-1090.62	891.68	6833.70	6866.70	-375.95	1457.13	120.71	911.31	409.78	2.23	PASS
7325.00†	6912.82	-1105.03	804.22	6879.82	6912.82	-375.95	1457.13	115.67	978.70	413.22	2.37	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL #29-10G6 AWB Offset Wellpath: GOETZEL #29-10G6 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL #29-10G6 AWB Offset Wellpath: GOETZEL #29-10G6 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
9.875in Open Hole	0.00	442.00	442.00	8.00	450.00	-229.15	888.27	-229.15	888.27
7in Casing Surface	0.00	442.00	442.00	8.00	450.00	-229.15	888.27	-229.15	888.27
6.25in Open Hole	442.00	7173.00	6731.00	450.00	7181.00	-229.15	888.27	-229.15	888.27
2.875in Casing Production	0.00	7173.00	7173.00	8.00	7181.00	-229.15	888.27	-229.15	888.27

WELLPATH COMPOSITION - Offset Wellbore: GOETZEL #29-10G6 AWB Offset Wellpath: GOETZEL #29-10G6 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7220.00	Custom Drift Indicator (2.0 Maximum Inclination)	ASSUMED VERTICAL TO SURFACE-2DEG CONE <7220>	GOETZEL #29-10G6 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL #29-10G6 AWB Offset Wellpath: GOETZEL #29-10G6 AWP

MD Reference: Rig on SLOT#06 EX GOETZEL #29-10G6 (1974'FSL & 2013'FEL, SEC.29, PR, 7220') (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 32N-30B-M PWB Offset Wellpath: GOETZEL 32N-30B-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#14 GOETZEL 32N-30B-M (2297'FSL & 2053'FWL, SEC.29) Well: GOETZEL 32N-30B-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	25.00	25.00	119.82	0.85	0.41	119.82	1.73	197.83	PASS
125.00†	125.00	0.00	0.00	125.00	125.00	119.82	0.85	0.41	119.82	2.04	129.23	PASS
225.00†	225.00	0.00	0.00	225.00	225.00	119.82	0.85	0.41	119.82	2.61	79.92	PASS
325.00†	325.00	0.00	0.00	325.00	325.00	119.82	0.85	0.41	119.82	3.21	56.86	PASS
425.00†	425.00	0.00	0.00	425.00	425.00	119.82	0.85	0.41	119.82	3.83	43.94	PASS
525.00†	525.00	0.00	0.00	525.00	525.00	119.82	0.85	0.41	119.82	4.45	35.74	PASS
625.00†	625.00	0.00	0.00	625.00	625.00	119.82	0.85	0.41	119.82	5.07	30.10	PASS
725.00†	725.00	0.00	0.00	725.00	725.00	119.82	0.85	0.41	119.82	5.69	25.99	PASS
825.00†	825.00	0.00	0.00	825.00	825.00	119.82	0.85	0.41	119.82	6.32	22.86	PASS
850.00	850.00	0.00	0.00	850.00	850.00	119.82	0.85	0.41	119.82	6.47	22.20	PASS
925.00†	924.99	-0.60	0.78	924.99	924.99	119.82	0.85	-127.42	120.42	6.95	20.46	PASS
1025.00†	1024.89	-3.25	4.24	1024.89	1024.89	119.82	0.85	-128.99	123.12	7.69	18.57	PASS
1125.00†	1124.58	-8.02	10.47	1124.58	1124.58	119.82	0.85	-131.63	128.20	8.52	17.19	PASS
1225.00†	1223.93	-14.91	19.45	1223.93	1223.93	119.82	0.85	-135.08	136.00	9.36	16.37	PASS
1325.00†	1322.83	-23.90	31.19	1322.83	1322.83	119.82	0.85	-138.99	146.88	10.24	15.99	PASS
1425.00†	1421.15	-34.98	45.65	1421.15	1421.15	119.82	0.85	-143.04	161.15	11.13	15.99	PASS
1525.00†	1518.77	-48.14	62.83	1518.77	1518.77	119.82	0.85	-146.99	179.03	12.03	16.31	PASS
1625.00†	1615.58	-63.37	82.71	1615.58	1615.58	119.82	0.85	-150.64	200.64	12.92	16.92	PASS
1719.36	1706.08	-79.61	103.91	1706.08	1706.08	119.82	0.85	-153.74	224.49	13.09	18.08	PASS
1725.00†	1711.46	-80.64	105.24	1711.46	1711.46	119.82	0.85	-153.93	226.01	13.11	18.17	PASS
1825.00†	1806.89	-98.81	128.96	1806.89	1806.89	119.82	0.85	-156.88	253.40	13.25	20.14	PASS
1925.00†	1902.32	-116.99	152.69	1902.32	1902.32	119.82	0.85	-159.25	281.30	13.47	21.99	PASS
2025.00†	1997.75	-135.16	176.41	1997.75	1997.75	119.82	0.85	-161.21	309.57	13.76	23.67	PASS
2125.00†	2093.18	-153.34	200.13	2099.28	2099.26	119.96	2.57	-162.67	337.28	14.16	25.02	PASS
2225.00†	2188.61	-171.51	223.85	2202.38	2202.21	120.38	7.97	-163.41	363.30	14.68	25.94	PASS
2325.00†	2284.04	-189.69	247.57	2306.68	2306.09	121.11	17.20	-163.57	387.49	15.30	26.50	PASS
2425.00†	2379.48	-207.86	271.29	2411.90	2410.49	122.15	30.32	-163.25	409.80	16.00	26.76	PASS
2525.00†	2474.91	-226.04	295.01	2517.80	2514.98	123.50	47.37	-162.51	430.24	16.75	26.78	PASS
2625.00†	2570.34	-244.21	318.73	2624.06	2619.14	125.16	68.34	-161.40	448.90	17.57	26.59	PASS
2725.00†	2665.77	-262.39	342.45	2730.42	2722.53	127.12	93.17	-159.95	465.91	18.45	26.21	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 32N-30B-M PWB Offset Wellpath: GOETZEL 32N-30B-M REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#14 GOETZEL 32N-30B-M (2297'FSL & 2053'FWL, SEC.29) Well: GOETZEL 32N-30B-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2825.00†	2761.20	-280.56	366.17	2836.57	2824.73	129.38	121.75	-158.21	481.49	19.43	25.68	PASS
2925.00†	2856.63	-298.74	389.89	2941.81	2924.94	131.92	153.79	-156.19	495.85	20.49	25.03	PASS
3025.00†	2952.06	-316.91	413.61	3039.32	3017.28	134.39	185.01	-154.26	510.08	21.58	24.41	PASS
3125.00†	3047.49	-335.08	437.33	3136.83	3109.62	136.86	216.24	-152.43	524.85	22.74	23.79	PASS
3225.00†	3142.92	-353.26	461.05	3234.34	3201.97	139.33	247.46	-150.70	540.14	23.97	23.18	PASS
3325.00†	3238.35	-371.43	484.77	3331.85	3294.31	141.79	278.68	-149.07	555.88	25.27	22.61	PASS
3425.00†	3333.78	-389.61	508.49	3429.36	3386.65	144.26	309.91	-147.53	572.06	26.62	22.05	PASS
3525.00†	3429.21	-407.78	532.21	3526.87	3478.99	146.73	341.13	-146.07	588.63	28.01	21.54	PASS
3625.00†	3524.64	-425.96	555.93	3624.38	3571.33	149.20	372.35	-144.69	605.55	29.43	21.06	PASS
3725.00†	3620.07	-444.13	579.65	3721.88	3663.68	151.67	403.57	-143.38	622.81	30.88	20.62	PASS
3825.00†	3715.51	-462.31	603.37	3819.39	3756.02	154.14	434.80	-142.14	640.37	32.35	20.21	PASS
3925.00†	3810.94	-480.48	627.09	3916.90	3848.36	156.61	466.02	-140.97	658.21	33.85	19.84	PASS
4025.00†	3906.37	-498.66	650.81	4014.41	3940.70	159.08	497.24	-139.86	676.30	35.37	19.49	PASS
4125.00†	4001.80	-516.83	674.53	4111.92	4033.04	161.55	528.46	-138.81	694.63	36.90	19.17	PASS
4225.00†	4097.23	-535.01	698.25	4209.43	4125.39	164.02	559.69	-137.81	713.19	38.45	18.88	PASS
4325.00†	4192.66	-553.18	721.97	4306.94	4217.73	166.49	590.91	-136.86	731.94	40.01	18.61	PASS
4425.00†	4288.09	-571.36	745.69	4404.45	4310.07	168.96	622.13	-135.95	750.88	41.57	18.36	PASS
4525.00†	4383.52	-589.53	769.41	4501.96	4402.41	171.43	653.36	-135.10	769.99	43.15	18.13	PASS
4625.00†	4478.95	-607.71	793.14	4599.46	4494.75	173.90	684.58	-134.28	789.27	44.73	17.91	PASS
4725.00†	4574.38	-625.88	816.86	4696.97	4587.10	176.37	715.80	-133.50	808.69	46.32	17.71	PASS
4825.00†	4669.81	-644.05	840.58	4794.48	4679.44	178.84	747.02	-132.76	828.25	47.92	17.53	PASS
4925.00†	4765.24	-662.23	864.30	4891.99	4771.78	181.31	778.25	-132.05	847.94	49.52	17.36	PASS
5025.00†	4860.67	-680.40	888.02	4989.50	4864.12	183.78	809.47	-131.37	867.75	51.12	17.20	PASS
5125.00†	4956.11	-698.58	911.74	5087.01	4956.46	186.25	840.69	-130.73	887.67	52.73	17.05	PASS
5225.00†	5051.54	-716.75	935.46	5184.52	5048.81	188.72	871.91	-130.11	907.70	54.34	16.91	PASS
5325.00†	5146.97	-734.93	959.18	5282.03	5141.15	191.19	903.14	-129.52	927.83	55.95	16.78	PASS
5425.00†	5242.40	-753.10	982.90	5379.54	5233.49	193.66	934.36	-128.95	948.04	57.56	16.66	PASS
5525.00†	5337.83	-771.28	1006.62	5477.04	5325.83	196.13	965.58	-128.41	968.35	59.18	16.55	PASS
5625.00†	5433.26	-789.45	1030.34	5574.55	5418.17	198.60	996.81	-127.89	988.73	60.80	16.44	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 32N-30B-M PWB Offset Wellpath: GOETZEL 32N-30B-M REV-A.0 PWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 32N-30B-M PWB Offset Wellpath: GOETZEL 32N-30B-M REV-A.0 PWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	25.00	1700.00	1675.00	25.00	1700.00	73.04	0.52	73.04	0.52
8.5in Open Hole	1700.00	15834.00	14134.00	1700.00	6961.00	73.04	0.52	-31.95	-2358.64

SURVEY PROGRAM - Offset Wellbore: GOETZEL 32N-30B-M PWB Offset Wellpath: GOETZEL 32N-30B-M REV-A.0 PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1700.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GOETZEL 32N-30B-M PWB
1700.00	15834.81	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 32N-30B-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 32N-30B-M PWB Offset Wellpath: GOETZEL 32N-30B-M REV-A.0 PWP

MD Reference: H&P 562 (25') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	25.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 32C-30-M2 PWB Offset Wellpath: GOETZEL 32C-30-M2 REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#13 GOETZEL 32C-30-M2 (2317'FSL & 2053'FWL SEC.29 Well: GOETZEL 32C-30-M2 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	25.00	25.00	139.86	1.16	0.48	139.86	1.72	231.23	PASS
125.00†	125.00	0.00	0.00	125.00	125.00	139.86	1.16	0.48	139.86	2.04	151.00	PASS
225.00†	225.00	0.00	0.00	225.00	225.00	139.86	1.16	0.48	139.86	2.61	93.38	PASS
325.00†	325.00	0.00	0.00	325.00	325.00	139.86	1.16	0.48	139.86	3.21	66.44	PASS
425.00†	425.00	0.00	0.00	425.00	425.00	139.86	1.16	0.48	139.86	3.83	51.34	PASS
525.00†	525.00	0.00	0.00	525.00	525.00	139.86	1.16	0.48	139.86	4.45	41.77	PASS
625.00†	625.00	0.00	0.00	625.00	625.00	139.86	1.16	0.48	139.86	5.07	35.18	PASS
725.00†	725.00	0.00	0.00	725.00	725.00	139.86	1.16	0.48	139.86	5.69	30.37	PASS
825.00†	825.00	0.00	0.00	825.00	825.00	139.86	1.16	0.48	139.86	6.32	26.72	PASS
850.00	850.00	0.00	0.00	850.00	850.00	139.86	1.16	0.48	139.86	6.47	25.94	PASS
925.00†	924.99	-0.60	0.78	924.99	924.99	139.86	1.16	-127.30	140.45	6.96	23.90	PASS
1025.00†	1024.89	-3.25	4.24	1024.89	1024.89	139.86	1.16	-128.64	143.14	7.69	21.62	PASS
1125.00†	1124.58	-8.02	10.47	1124.58	1124.58	139.86	1.16	-130.93	148.17	8.51	19.91	PASS
1225.00†	1223.93	-14.91	19.45	1223.93	1223.93	139.86	1.16	-133.96	155.84	9.35	18.82	PASS
1325.00†	1322.83	-23.90	31.19	1322.83	1322.83	139.86	1.16	-137.46	166.48	10.21	18.20	PASS
1425.00†	1421.15	-34.98	45.65	1421.15	1421.15	139.86	1.16	-141.17	180.41	11.10	17.97	PASS
1525.00†	1518.77	-48.14	62.83	1518.77	1518.77	139.86	1.16	-144.87	197.86	12.00	18.10	PASS
1625.00†	1615.58	-63.37	82.71	1615.58	1615.58	139.86	1.16	-148.38	218.98	12.89	18.52	PASS
1719.36	1706.08	-79.61	103.91	1706.08	1706.08	139.86	1.16	-151.44	242.33	13.06	19.57	PASS
1725.00†	1711.46	-80.64	105.24	1711.46	1711.46	139.86	1.16	-151.62	243.83	13.08	19.65	PASS
1825.00†	1806.89	-98.81	128.96	1807.08	1807.08	139.86	1.17	-154.61	270.73	13.23	21.57	PASS
1925.00†	1902.32	-116.99	152.69	1905.86	1905.83	140.25	3.08	-156.77	297.60	13.45	23.30	PASS
2025.00†	1997.75	-135.16	176.41	2005.79	2005.61	141.34	8.40	-157.99	323.64	13.78	24.70	PASS
2125.00†	2093.18	-153.34	200.13	2106.64	2106.05	143.14	17.22	-158.47	348.60	14.21	25.77	PASS
2225.00†	2188.61	-171.51	223.85	2208.17	2206.79	145.67	29.60	-158.35	372.38	14.72	26.53	PASS
2325.00†	2284.04	-189.69	247.57	2310.14	2307.45	148.94	45.54	-157.74	395.00	15.31	27.00	PASS
2425.00†	2379.48	-207.86	271.29	2412.29	2407.64	152.92	65.02	-156.72	416.54	15.99	27.21	PASS
2525.00†	2474.91	-226.04	295.01	2514.36	2506.98	157.61	87.97	-155.34	437.13	16.76	27.20	PASS
2625.00†	2570.34	-244.21	318.73	2616.09	2605.10	163.00	114.27	-153.66	456.98	17.62	26.98	PASS
2725.00†	2665.77	-262.39	342.45	2714.92	2699.61	168.79	142.58	-151.81	476.45	18.57	26.64	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 32C-30-M2 PWB Offset Wellpath: GOETZEL 32C-30-M2 REV-A.0 PWP

Facility: SEC.29-T06N-R66W Slot: SLOT#13 GOETZEL 32C-30-M2 (2317'FSL & 2053'FWL SEC.29 Well: GOETZEL 32C-30-M2 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2825.00†	2761.20	-280.56	366.17	2811.88	2792.24	174.53	170.65	-150.11	496.28	19.59	26.25	PASS
2925.00†	2856.63	-298.74	389.89	2908.84	2884.87	180.27	198.72	-148.53	516.52	20.68	25.82	PASS
3025.00†	2952.06	-316.91	413.61	3005.80	2977.50	186.01	226.79	-147.07	537.10	21.84	25.38	PASS
3125.00†	3047.49	-335.08	437.33	3102.76	3070.13	191.75	254.86	-145.73	558.00	23.04	24.95	PASS
3225.00†	3142.92	-353.26	461.05	3199.72	3162.76	197.50	282.92	-144.47	579.18	24.30	24.52	PASS
3325.00†	3238.35	-371.43	484.77	3296.68	3255.39	203.24	310.99	-143.30	600.61	25.57	24.13	PASS
3425.00†	3333.78	-389.61	508.49	3393.64	3348.02	208.98	339.06	-142.22	622.27	26.89	23.74	PASS
3525.00†	3429.21	-407.78	532.21	3490.60	3440.65	214.72	367.13	-141.20	644.12	28.22	23.38	PASS
3625.00†	3524.64	-425.96	555.93	3587.56	3533.28	220.47	395.20	-140.26	666.16	29.58	23.05	PASS
3725.00†	3620.07	-444.13	579.65	3684.52	3625.91	226.21	423.27	-139.37	688.36	30.96	22.73	PASS
3825.00†	3715.51	-462.31	603.37	3781.48	3718.54	231.95	451.34	-138.54	710.71	32.35	22.44	PASS
3925.00†	3810.94	-480.48	627.09	3878.44	3811.17	237.69	479.41	-137.75	733.20	33.75	22.17	PASS
4025.00†	3906.37	-498.66	650.81	3975.40	3903.80	243.43	507.48	-137.02	755.81	35.17	21.91	PASS
4125.00†	4001.80	-516.83	674.53	4072.36	3996.43	249.18	535.55	-136.32	778.53	36.60	21.67	PASS
4225.00†	4097.23	-535.01	698.25	4169.32	4089.06	254.92	563.62	-135.67	801.36	38.03	21.45	PASS
4325.00†	4192.66	-553.18	721.97	4266.28	4181.69	260.66	591.69	-135.05	824.28	39.48	21.24	PASS
4425.00†	4288.09	-571.36	745.69	4363.24	4274.32	266.40	619.76	-134.47	847.28	40.93	21.05	PASS
4525.00†	4383.52	-589.53	769.41	4460.20	4366.95	272.14	647.83	-133.91	870.37	42.38	20.87	PASS
4625.00†	4478.95	-607.71	793.14	4557.16	4459.58	277.89	675.90	-133.39	893.53	43.85	20.70	PASS
4725.00†	4574.38	-625.88	816.86	4654.12	4552.21	283.63	703.97	-132.89	916.76	45.31	20.54	PASS
4825.00†	4669.81	-644.05	840.58	4751.08	4644.84	289.37	732.04	-132.41	940.05	46.78	20.39	PASS
4925.00†	4765.24	-662.23	864.30	4848.04	4737.47	295.11	760.11	-131.96	963.40	48.26	20.25	PASS
5025.00†	4860.67	-680.40	888.02	4945.00	4830.10	300.85	788.18	-131.53	986.80	49.74	20.11	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 32C-30-M2 PWB Offset Wellpath: GOETZEL 32C-30-M2 REV-A.0 PWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 32C-30-M2 PWB Offset Wellpath: GOETZEL 32C-30-M2 REV-A.0 PWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	25.00	1700.00	1675.00	25.00	1700.00	85.26	0.71	85.26	0.71
8.5in Open Hole	1700.00	16005.00	14305.00	1700.00	7141.00	85.26	0.71	46.44	-2358.87

SURVEY PROGRAM - Offset Wellbore: GOETZEL 32C-30-M2 REV-A.0 PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1700.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GOETZEL 32C-30-M2 PWB
1700.00	16005.21	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 32C-30-M2 PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 32C-30-M2 PWB Offset Wellpath: GOETZEL 32C-30-M2 REV-A.0 PWP

MD Reference: PRECISION 562 (25') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	25.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL #3-29 AWB Offset Wellpath: GOETZEL #3-29 AWP

Facility: SEC.29-T06N-R66W Slot: SLOT#01 EX:GOETZEL #3-29 (425'FSL & 2065'FEL SEC.29,PR) Well: GOETZEL #3-29 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	-6.00	25.00	-1728.30	1198.11	145.27	2102.98	25.73	85.43	PASS
125.00†	125.00	0.00	0.00	94.00	125.00	-1728.30	1198.11	145.27	2102.98	50.36	42.55	PASS
225.00†	225.00	0.00	0.00	194.00	225.00	-1728.30	1198.11	145.27	2102.98	51.26	41.79	PASS
325.00†	325.00	0.00	0.00	294.00	325.00	-1728.30	1198.11	145.27	2102.98	52.88	40.49	PASS
425.00†	425.00	0.00	0.00	394.00	425.00	-1728.30	1198.11	145.27	2102.98	55.10	38.82	PASS
525.00†	525.00	0.00	0.00	494.00	525.00	-1728.30	1198.11	145.27	2102.98	57.81	36.98	PASS
625.00†	625.00	0.00	0.00	594.00	625.00	-1728.30	1198.11	145.27	2102.98	60.72	35.08	PASS
725.00†	725.00	0.00	0.00	694.00	725.00	-1728.30	1198.11	145.27	2102.98	64.09	33.21	PASS
825.00†	825.00	0.00	0.00	794.00	825.00	-1728.30	1198.11	145.27	2102.98	67.68	31.43	PASS
850.00	850.00	0.00	0.00	819.00	850.00	-1728.30	1198.11	145.27	2102.98	68.61	31.00	PASS
925.00†	924.99	-0.60	0.78	893.99	924.99	-1728.30	1198.11	17.82	2102.04	71.44	29.74	PASS
1025.00†	1024.89	-3.25	4.24	993.89	1024.89	-1728.30	1198.11	17.89	2097.89	75.36	28.12	PASS
1125.00†	1124.58	-8.02	10.47	1093.58	1124.58	-1728.30	1198.11	18.00	2090.42	79.40	26.58	PASS
1225.00†	1223.93	-14.91	19.45	1192.93	1223.93	-1728.30	1198.11	18.16	2079.66	83.50	25.13	PASS
1325.00†	1322.83	-23.90	31.19	1291.83	1322.83	-1728.30	1198.11	18.38	2065.60	87.66	23.77	PASS
1425.00†	1421.15	-34.98	45.65	1390.15	1421.15	-1728.30	1198.11	18.65	2048.30	91.85	22.49	PASS
1525.00†	1518.77	-48.14	62.83	1487.77	1518.77	-1728.30	1198.11	18.98	2027.76	96.06	21.28	PASS
1625.00†	1615.58	-63.37	82.71	1584.58	1615.58	-1728.30	1198.11	19.38	2004.03	100.28	20.14	PASS
1719.36	1706.08	-79.61	103.91	1675.08	1706.08	-1728.30	1198.11	19.81	1978.75	104.02	19.12	PASS
1725.00†	1711.46	-80.64	105.24	1680.46	1711.46	-1728.30	1198.11	19.82	1977.16	104.26	19.07	PASS
1825.00†	1806.89	-98.81	128.96	1775.89	1806.89	-1728.30	1198.11	20.12	1948.93	108.36	18.08	PASS
1925.00†	1902.32	-116.99	152.69	1871.32	1902.32	-1728.30	1198.11	20.43	1920.74	112.49	17.16	PASS
2025.00†	1997.75	-135.16	176.41	1966.75	1997.75	-1728.30	1198.11	20.74	1892.61	116.65	16.30	PASS
2125.00†	2093.18	-153.34	200.13	2062.18	2093.18	-1728.30	1198.11	21.06	1864.54	120.85	15.50	PASS
2225.00†	2188.61	-171.51	223.85	2157.61	2188.61	-1728.30	1198.11	21.40	1836.52	125.07	14.75	PASS
2325.00†	2284.04	-189.69	247.57	2253.04	2284.04	-1728.30	1198.11	21.74	1808.56	129.33	14.04	PASS
2425.00†	2379.48	-207.86	271.29	2348.48	2379.48	-1728.30	1198.11	22.09	1780.66	133.60	13.38	PASS
2525.00†	2474.91	-226.04	295.01	2443.91	2474.91	-1728.30	1198.11	22.46	1752.83	137.90	12.76	PASS
2625.00†	2570.34	-244.21	318.73	2539.34	2570.34	-1728.30	1198.11	22.84	1725.06	142.22	12.17	PASS
2725.00†	2665.77	-262.39	342.45	2634.77	2665.77	-1728.30	1198.11	23.22	1697.37	146.57	11.62	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL #3-29 AWB Offset Wellpath: GOETZEL #3-29 AWP

Facility: SEC.29-T06N-R66W Slot: SLOT#01 EX:GOETZEL #3-29 (425'FSL & 2065'FEL SEC.29,PR) Well: GOETZEL #3-29 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2825.00†	2761.20	-280.56	366.17	2730.20	2761.20	-1728.30	1198.11	23.63	1669.76	150.94	11.10	PASS
2925.00†	2856.63	-298.74	389.89	2825.63	2856.63	-1728.30	1198.11	24.04	1642.22	155.32	10.61	PASS
3025.00†	2952.06	-316.91	413.61	2921.06	2952.06	-1728.30	1198.11	24.47	1614.77	159.73	10.14	PASS
3125.00†	3047.49	-335.08	437.33	3016.49	3047.49	-1728.30	1198.11	24.91	1587.40	164.16	9.70	PASS
3225.00†	3142.92	-353.26	461.05	3111.92	3142.92	-1728.30	1198.11	25.37	1560.13	168.60	9.28	PASS
3325.00†	3238.35	-371.43	484.77	3207.35	3238.35	-1728.30	1198.11	25.84	1532.96	173.07	8.88	PASS
3425.00†	3333.78	-389.61	508.49	3302.78	3333.78	-1728.30	1198.11	26.34	1505.88	177.55	8.51	PASS
3525.00†	3429.21	-407.78	532.21	3398.21	3429.21	-1728.30	1198.11	26.85	1478.92	182.05	8.15	PASS
3625.00†	3524.64	-425.96	555.93	3493.64	3524.64	-1728.30	1198.11	27.37	1452.07	186.57	7.80	PASS
3725.00†	3620.07	-444.13	579.65	3589.07	3620.07	-1728.30	1198.11	27.92	1425.34	191.10	7.48	PASS
3825.00†	3715.51	-462.31	603.37	3684.51	3715.51	-1728.30	1198.11	28.49	1398.74	195.66	7.17	PASS
3925.00†	3810.94	-480.48	627.09	3779.94	3810.94	-1728.30	1198.11	29.08	1372.27	200.23	6.87	PASS
4025.00†	3906.37	-498.66	650.81	3875.37	3906.37	-1728.30	1198.11	29.69	1345.95	204.81	6.59	PASS
4125.00†	4001.80	-516.83	674.53	3970.80	4001.80	-1728.30	1198.11	30.32	1319.77	209.42	6.32	PASS
4225.00†	4097.23	-535.01	698.25	4066.23	4097.23	-1728.30	1198.11	30.98	1293.76	214.03	6.06	PASS
4325.00†	4192.66	-553.18	721.97	4161.66	4192.66	-1728.30	1198.11	31.67	1267.92	218.67	5.81	PASS
4425.00†	4288.09	-571.36	745.69	4257.09	4288.09	-1728.30	1198.11	32.38	1242.26	223.33	5.57	PASS
4525.00†	4383.52	-589.53	769.41	4352.52	4383.52	-1728.30	1198.11	33.13	1216.79	228.00	5.35	PASS
4625.00†	4478.95	-607.71	793.14	4447.95	4478.95	-1728.30	1198.11	33.90	1191.53	232.68	5.13	PASS
4725.00†	4574.38	-625.88	816.86	4543.38	4574.38	-1728.30	1198.11	34.71	1166.49	237.39	4.92	PASS
4825.00†	4669.81	-644.05	840.58	4638.81	4669.81	-1728.30	1198.11	35.55	1141.68	242.11	4.72	PASS
4925.00†	4765.24	-662.23	864.30	4734.24	4765.24	-1728.30	1198.11	36.42	1117.12	246.85	4.53	PASS
5025.00†	4860.67	-680.40	888.02	4829.67	4860.67	-1728.30	1198.11	37.34	1092.82	251.61	4.35	PASS
5125.00†	4956.11	-698.58	911.74	4925.11	4956.11	-1728.30	1198.11	38.30	1068.81	256.39	4.18	PASS
5225.00†	5051.54	-716.75	935.46	5020.54	5051.54	-1728.30	1198.11	39.29	1045.09	261.18	4.01	PASS
5325.00†	5146.97	-734.93	959.18	5115.97	5146.97	-1728.30	1198.11	40.33	1021.71	266.00	3.85	PASS
5425.00†	5242.40	-753.10	982.90	5211.40	5242.40	-1728.30	1198.11	41.42	998.67	270.83	3.69	PASS
5525.00†	5337.83	-771.28	1006.62	5306.83	5337.83	-1728.30	1198.11	42.56	976.00	275.69	3.55	PASS
5625.00†	5433.26	-789.45	1030.34	5402.26	5433.26	-1728.30	1198.11	43.75	953.72	280.57	3.40	PASS
5725.00†	5528.69	-807.63	1054.06	5497.69	5528.69	-1728.30	1198.11	44.99	931.88	285.46	3.27	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL #3-29 AWB Offset Wellpath: GOETZEL #3-29 AWP

Facility: SEC.29-T06N-R66W Slot: SLOT#01 EX:GOETZEL #3-29 (425'FSL & 2065'FEL SEC.29,PR) Well: GOETZEL #3-29 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5825.00†	5624.12	-825.80	1077.78	5593.12	5624.12	-1728.30	1198.11	46.29	910.49	290.38	3.14	PASS
5925.00†	5719.55	-843.98	1101.50	5688.55	5719.55	-1728.30	1198.11	47.64	889.59	295.33	3.02	PASS
6025.00†	5814.98	-862.15	1125.22	5783.98	5814.98	-1728.30	1198.11	49.06	869.21	300.29	2.90	PASS
6125.00†	5910.41	-880.33	1148.94	5879.41	5910.41	-1728.30	1198.11	50.54	849.40	305.28	2.79	PASS
6225.00†	6005.84	-898.50	1172.66	5974.84	6005.84	-1728.30	1198.11	52.09	830.19	310.29	2.68	PASS
6325.00†	6101.27	-916.68	1196.38	6070.27	6101.27	-1728.30	1198.11	53.71	811.63	315.33	2.58	PASS
6337.66	6113.36	-918.98	1199.39	6082.36	6113.36	-1728.30	1198.11	53.92	809.33	315.96	2.56	PASS
6425.00†	6197.68	-935.35	1214.89	6166.68	6197.68	-1728.30	1198.11	33.27	793.14	320.31	2.48	PASS
6525.00†	6295.51	-955.09	1219.69	6264.51	6295.51	-1728.30	1198.11	-4.63	773.52	325.12	2.38	PASS
6625.00†	6392.89	-975.53	1210.57	6361.89	6392.89	-1728.30	1198.11	-37.85	752.88	329.78	2.29	PASS
6725.00†	6487.92	-996.27	1187.72	6456.92	6487.92	-1728.30	1198.11	-57.61	732.10	334.28	2.19	PASS
6825.00†	6578.76	-1016.92	1151.57	6547.76	6578.76	-1728.30	1198.11	-70.47	712.91	338.61	2.11	PASS
6925.00†	6663.63	-1037.05	1102.83	6632.63	6663.63	-1728.30	1198.11	-80.19	697.79	342.78	2.04	PASS
7025.00†	6740.88	-1056.30	1042.46	6709.88	6740.88	-1728.30	1198.11	-87.96	689.80	346.77	1.99	PASS
7056.25†	6763.22	-1062.07	1021.38	6733.13	6764.13	-1728.30	1198.11	-90.09	689.28	348.02	1.98	PASS
7113.22†	6801.50	-1072.23	980.46	6770.50	6801.50	-1728.30	1198.11	-93.36	691.24	350.07	1.98	PASS
7125.00†	6809.01	-1074.27	971.61	6778.01	6809.01	-1728.30	1198.11	-93.97	692.15	350.48	1.98	PASS
7225.00†	6866.70	-1090.62	891.68	6835.70	6866.70	-1728.30	1198.11	-98.08	707.49	353.81	2.00	PASS
7325.00†	6912.82	-1105.03	804.22	6881.82	6912.82	-1728.30	1198.11	-100.06	737.30	356.60	2.07	PASS
7425.00†	6946.47	-1117.23	710.93	6915.47	6946.47	-1728.30	1198.11	-99.64	781.51	358.71	2.18	PASS
7525.00†	6966.99	-1126.96	613.63	6935.99	6966.99	-1728.30	1198.11	-96.45	838.59	360.09	2.33	PASS
7625.00†	6974.00	-1134.06	514.21	6943.00	6974.00	-1728.30	1198.11	-90.10	906.01	360.73	2.51	PASS
7626.30	6974.00	-1134.13	512.92	6943.00	6974.00	-1728.30	1198.11	-90.00	906.94	360.74	2.52	PASS
7725.00†	6974.00	-1139.74	414.37	6943.00	6974.00	-1728.30	1198.11	-90.00	980.13	360.99	2.72	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL #3-29 AWB Offset Wellpath: GOETZEL #3-29 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL #3-29 AWB Offset Wellpath: GOETZEL #3-29 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.25in Open Hole	0.00	512.00	512.00	6.00	518.00	-1053.56	730.39	-1053.56	730.39
9.625in Casing	0.00	512.00	512.00	6.00	518.00	-1053.56	730.39	-1053.56	730.39
7.875in Open Hole	512.00	7205.00	6693.00	518.00	7211.00	-1053.56	730.39	-1053.56	730.39
5.5in Casing	0.00	7205.00	7205.00	6.00	7211.00	-1053.56	730.39	-1053.56	730.39

WELLPATH COMPOSITION - Offset Wellbore: GOETZEL #3-29 AWB Offset Wellpath: GOETZEL #3-29 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7250.00	Drift Indicator - Inclination Only (Actual Survey)	DRIFT INDICATOR TO TD <7250'FROM CO WEBSITE, 2° CONE OF UNCERTAINTY>	GOETZEL #3-29 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL #3-29 AWB Offset Wellpath: GOETZEL #3-29 AWP

MD Reference: Rig on SLOT#01 EX:GOETZEL #3-29 (425'FSL & 2065'FEL SEC.29,PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: FIRESTIEN #30-4-21 AWB Offset Wellpath: FIRESTIEN #30-4-21 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#07 EX FIRESTIEN #30-4-21 (155'FSL & 1098'FEL SEC.30, 7194'MD) Well: FIRESTIEN #30-4-21 Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
25.00	25.00	0.00	0.00	-5.00	25.00	-2133.98	-3164.90	-123.99	3817.13	25.73	155.11	PASS	
125.00†	125.00	0.00	0.00	95.00	125.00	-2133.98	-3164.90	-123.99	3817.13	52.31	74.26	PASS	
225.00†	225.00	0.00	0.00	195.00	225.00	-2133.98	-3164.90	-123.99	3817.13	54.62	71.07	PASS	
325.00†	325.00	0.00	0.00	295.00	325.00	-2133.98	-3164.90	-123.99	3817.13	56.93	68.14	PASS	
425.00†	425.00	0.00	0.00	395.00	425.00	-2133.98	-3164.90	-123.99	3817.13	59.24	65.44	PASS	
525.00†	525.00	0.00	0.00	495.00	525.00	-2133.98	-3164.90	-123.99	3817.13	61.38	62.94	PASS	
625.00†	625.00	0.00	0.00	595.00	625.00	-2133.98	-3164.90	-123.99	3817.13	63.71	60.62	PASS	
725.00†	725.00	0.00	0.00	695.00	725.00	-2133.98	-3164.90	-123.99	3817.13	66.03	58.46	PASS	
825.00†	825.00	0.00	0.00	795.00	825.00	-2133.98	-3164.90	-123.99	3817.13	68.36	56.45	PASS	
850.00	850.00	0.00	0.00	820.00	850.00	-2133.98	-3164.90	-123.99	3817.13	68.94	55.97	PASS	
925.00†	924.99	-0.60	0.78	894.99	924.99	-2133.98	-3164.90	108.56	3817.44	70.69	54.57	PASS	
1025.00†	1024.89	-3.25	4.24	994.89	1024.89	-2133.98	-3164.90	108.59	3818.83	73.03	52.82	PASS	
1125.00†	1124.58	-8.02	10.47	1094.58	1124.58	-2133.98	-3164.90	108.66	3821.35	75.37	51.20	PASS	
1225.00†	1223.93	-14.91	19.45	1193.93	1223.93	-2133.98	-3164.90	108.75	3825.00	77.72	49.69	PASS	
1325.00†	1322.83	-23.90	31.19	1292.83	1322.83	-2133.98	-3164.90	108.86	3829.81	80.07	48.28	PASS	
1425.00†	1421.15	-34.98	45.65	1391.15	1421.15	-2133.98	-3164.90	109.00	3835.81	82.42	46.96	PASS	
1525.00†	1518.77	-48.14	62.83	1488.77	1518.77	-2133.98	-3164.90	109.17	3843.04	84.78	45.72	PASS	
1625.00†	1615.58	-63.37	82.71	1585.58	1615.58	-2133.98	-3164.90	109.35	3851.54	87.16	44.57	PASS	
1719.36	1706.08	-79.61	103.91	1676.08	1706.08	-2133.98	-3164.90	109.53	3860.77	89.12	43.58	PASS	
1725.00†	1711.46	-80.64	105.24	1681.46	1711.46	-2133.98	-3164.90	109.56	3861.36	89.25	43.52	PASS	
1825.00†	1806.89	-98.81	128.96	1776.89	1806.89	-2133.98	-3164.90	109.96	3871.88	91.47	42.57	PASS	
1925.00†	1902.32	-116.99	152.69	1872.32	1902.32	-2133.98	-3164.90	110.35	3882.61	93.73	41.66	PASS	
2025.00†	1997.75	-135.16	176.41	1967.75	1997.75	-2133.98	-3164.90	110.75	3893.53	96.00	40.78	PASS	
2125.00†	2093.18	-153.34	200.13	2063.18	2093.18	-2133.98	-3164.90	111.14	3904.66	98.30	39.94	PASS	
2225.00†	2188.61	-171.51	223.85	2158.61	2188.61	-2133.98	-3164.90	111.53	3915.98	100.62	39.13	PASS	
2325.00†	2284.04	-189.69	247.57	2254.04	2284.04	-2133.98	-3164.90	111.92	3927.50	102.96	38.34	PASS	
2425.00†	2379.48	-207.86	271.29	2349.48	2379.48	-2133.98	-3164.90	112.31	3939.20	105.32	37.59	PASS	
2525.00†	2474.91	-226.04	295.01	2444.91	2474.91	-2133.98	-3164.90	112.70	3951.10	107.70	36.87	PASS	
2625.00†	2570.34	-244.21	318.73	2540.34	2570.34	-2133.98	-3164.90	113.08	3963.19	110.10	36.17	PASS	
2725.00†	2665.77	-262.39	342.45	2635.77	2665.77	-2133.98	-3164.90	113.46	3975.47	112.52	35.50	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: FIRESTIEN #30-4-21 AWB Offset Wellpath: FIRESTIEN #30-4-21 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#07 EX FIRESTIEN #30-4-21 (155'FSL & 1098'FEL SEC.30, 7194'MD) Well: FIRESTIEN #30-4-21 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2825.00†	2761.20	-280.56	366.17	2731.20	2761.20	-2133.98	-3164.90	113.84	3987.94	114.96	34.85	PASS
2925.00†	2856.63	-298.74	389.89	2826.63	2856.63	-2133.98	-3164.90	114.22	4000.58	117.42	34.23	PASS
3025.00†	2952.06	-316.91	413.61	2922.06	2952.06	-2133.98	-3164.90	114.59	4013.41	119.89	33.62	PASS
3125.00†	3047.49	-335.08	437.33	3017.49	3047.49	-2133.98	-3164.90	114.96	4026.43	122.38	33.04	PASS
3225.00†	3142.92	-353.26	461.05	3112.92	3142.92	-2133.98	-3164.90	115.33	4039.62	124.89	32.48	PASS
3325.00†	3238.35	-371.43	484.77	3208.35	3238.35	-2133.98	-3164.90	115.70	4052.98	127.41	31.94	PASS
3425.00†	3333.78	-389.61	508.49	3303.78	3333.78	-2133.98	-3164.90	116.07	4066.53	129.94	31.42	PASS
3525.00†	3429.21	-407.78	532.21	3399.21	3429.21	-2133.98	-3164.90	116.43	4080.25	132.49	30.92	PASS
3625.00†	3524.64	-425.96	555.93	3494.64	3524.64	-2133.98	-3164.90	116.79	4094.14	135.05	30.43	PASS
3725.00†	3620.07	-444.13	579.65	3590.07	3620.07	-2133.98	-3164.90	117.15	4108.20	137.63	29.96	PASS
3825.00†	3715.51	-462.31	603.37	3685.51	3715.51	-2133.98	-3164.90	117.51	4122.42	140.22	29.51	PASS
3925.00†	3810.94	-480.48	627.09	3780.94	3810.94	-2133.98	-3164.90	117.86	4136.82	142.82	29.07	PASS
4025.00†	3906.37	-498.66	650.81	3876.37	3906.37	-2133.98	-3164.90	118.21	4151.38	145.42	28.65	PASS
4125.00†	4001.80	-516.83	674.53	3971.80	4001.80	-2133.98	-3164.90	118.56	4166.11	148.04	28.24	PASS
4225.00†	4097.23	-535.01	698.25	4067.23	4097.23	-2133.98	-3164.90	118.91	4180.99	150.67	27.85	PASS
4325.00†	4192.66	-553.18	721.97	4162.66	4192.66	-2133.98	-3164.90	119.25	4196.04	153.31	27.46	PASS
4425.00†	4288.09	-571.36	745.69	4258.09	4288.09	-2133.98	-3164.90	119.60	4211.24	155.96	27.09	PASS
4525.00†	4383.52	-589.53	769.41	4353.52	4383.52	-2133.98	-3164.90	119.94	4226.60	158.61	26.74	PASS
4625.00†	4478.95	-607.71	793.14	4448.95	4478.95	-2133.98	-3164.90	120.27	4242.12	161.28	26.39	PASS
4725.00†	4574.38	-625.88	816.86	4544.38	4574.38	-2133.98	-3164.90	120.61	4257.79	163.95	26.05	PASS
4825.00†	4669.81	-644.05	840.58	4639.81	4669.81	-2133.98	-3164.90	120.94	4273.61	166.62	25.73	PASS
4925.00†	4765.24	-662.23	864.30	4735.24	4765.24	-2133.98	-3164.90	121.27	4289.58	169.31	25.41	PASS
5025.00†	4860.67	-680.40	888.02	4830.67	4860.67	-2133.98	-3164.90	121.60	4305.70	171.99	25.11	PASS
5125.00†	4956.11	-698.58	911.74	4926.11	4956.11	-2133.98	-3164.90	121.93	4321.96	174.69	24.81	PASS
5225.00†	5051.54	-716.75	935.46	5021.54	5051.54	-2133.98	-3164.90	122.25	4338.37	177.39	24.53	PASS
5325.00†	5146.97	-734.93	959.18	5116.97	5146.97	-2133.98	-3164.90	122.57	4354.93	180.10	24.25	PASS
5425.00†	5242.40	-753.10	982.90	5212.40	5242.40	-2133.98	-3164.90	122.89	4371.62	182.81	23.98	PASS
5525.00†	5337.83	-771.28	1006.62	5307.83	5337.83	-2133.98	-3164.90	123.21	4388.46	185.52	23.72	PASS
5625.00†	5433.26	-789.45	1030.34	5403.26	5433.26	-2133.98	-3164.90	123.53	4405.43	188.24	23.47	PASS
5725.00†	5528.69	-807.63	1054.06	5498.69	5528.69	-2133.98	-3164.90	123.84	4422.54	190.97	23.22	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: FIRESTIEN #30-4-21 AWB Offset Wellpath: FIRESTIEN #30-4-21 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#07 EX FIRESTIEN #30-4-21 (155'FSL & 1098'FEL SEC.30, 7194'MD) Well: FIRESTIEN #30-4-21 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5825.00†	5624.12	-825.80	1077.78	5594.12	5624.12	-2133.98	-3164.90	124.15	4439.78	193.69	22.98	PASS
5925.00†	5719.55	-843.98	1101.50	5689.55	5719.55	-2133.98	-3164.90	124.46	4457.16	196.42	22.75	PASS
6025.00†	5814.98	-862.15	1125.22	5784.98	5814.98	-2133.98	-3164.90	124.76	4474.67	199.16	22.53	PASS
6125.00†	5910.41	-880.33	1148.94	5880.41	5910.41	-2133.98	-3164.90	125.07	4492.32	201.90	22.31	PASS
6225.00†	6005.84	-898.50	1172.66	5975.84	6005.84	-2133.98	-3164.90	125.37	4510.09	204.64	22.10	PASS
6325.00†	6101.27	-916.68	1196.38	6071.27	6101.27	-2133.98	-3164.90	125.67	4527.98	207.38	21.89	PASS
6337.66	6113.36	-918.98	1199.39	6083.36	6113.36	-2133.98	-3164.90	125.70	4530.26	207.73	21.86	PASS
6425.00†	6197.68	-935.35	1214.89	6167.68	6197.68	-2133.98	-3164.90	105.68	4540.85	210.15	21.66	PASS
6525.00†	6295.51	-955.09	1219.69	6265.51	6295.51	-2133.98	-3164.90	69.22	4540.31	213.06	21.36	PASS
6625.00†	6392.89	-975.53	1210.57	6362.89	6392.89	-2133.98	-3164.90	38.33	4526.23	215.96	21.01	PASS
6725.00†	6487.92	-996.27	1187.72	6457.92	6487.92	-2133.98	-3164.90	21.74	4498.85	218.79	20.61	PASS
6825.00†	6578.76	-1016.92	1151.57	6548.76	6578.76	-2133.98	-3164.90	12.61	4458.67	221.42	20.18	PASS
6925.00†	6663.63	-1037.05	1102.83	6633.63	6663.63	-2133.98	-3164.90	6.67	4406.45	223.80	19.73	PASS
7025.00†	6740.88	-1056.30	1042.46	6710.88	6740.88	-2133.98	-3164.90	2.01	4343.19	225.92	19.27	PASS
7125.00†	6809.01	-1074.27	971.61	6779.01	6809.01	-2133.98	-3164.90	-2.45	4270.10	227.76	18.79	PASS
7225.00†	6866.70	-1090.62	891.68	6836.70	6866.70	-2133.98	-3164.90	-7.67	4188.62	229.33	18.31	PASS
7325.00†	6912.82	-1105.03	804.22	6882.82	6912.82	-2133.98	-3164.90	-15.09	4100.33	230.60	17.82	PASS
7425.00†	6946.47	-1117.23	710.93	6916.47	6946.47	-2133.98	-3164.90	-27.74	4006.98	231.58	17.34	PASS
7525.00†	6966.99	-1126.96	613.63	6936.99	6966.99	-2133.98	-3164.90	-52.02	3910.42	232.27	16.87	PASS
7625.00†	6974.00	-1134.06	514.21	6944.00	6974.00	-2133.98	-3164.90	-89.52	3812.58	232.69	16.42	PASS
7626.30	6974.00	-1134.13	512.92	6944.00	6974.00	-2133.98	-3164.90	-90.00	3811.31	232.69	16.42	PASS
7725.00†	6974.00	-1139.74	414.37	6944.00	6974.00	-2133.98	-3164.90	-90.00	3714.80	232.98	15.98	PASS
7825.00†	6974.00	-1145.42	314.54	6944.00	6974.00	-2133.98	-3164.90	-90.00	3617.15	233.32	15.54	PASS
7925.00†	6974.00	-1151.10	214.70	6944.00	6974.00	-2133.98	-3164.90	-90.00	3519.62	233.71	15.09	PASS
8025.00†	6974.00	-1156.78	114.86	6944.00	6974.00	-2133.98	-3164.90	-90.00	3422.24	234.16	14.65	PASS
8125.00†	6974.00	-1162.47	15.02	6944.00	6974.00	-2133.98	-3164.90	-90.00	3325.02	234.66	14.20	PASS
8225.00†	6974.00	-1168.15	-84.82	6944.00	6974.00	-2133.98	-3164.90	-90.00	3227.97	235.24	13.75	PASS
8325.00†	6974.00	-1173.83	-184.66	6944.00	6974.00	-2133.98	-3164.90	-90.00	3131.10	235.90	13.30	PASS
8425.00†	6974.00	-1179.51	-284.49	6944.00	6974.00	-2133.98	-3164.90	-90.00	3034.43	236.64	12.85	PASS
8525.00†	6974.00	-1185.20	-384.33	6944.00	6974.00	-2133.98	-3164.90	-90.00	2937.99	237.48	12.40	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: FIRESTIEN #30-4-21 AWB Offset Wellpath: FIRESTIEN #30-4-21 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#07 EX FIRESTIEN #30-4-21 (155'FSL & 1098'FEL SEC.30, 7194'MD) Well: FIRESTIEN #30-4-21 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8625.00†	6974.00	-1190.88	-484.17	6944.00	6974.00	-2133.98	-3164.90	-90.00	2841.79	238.43	11.94	PASS
8725.00†	6974.00	-1196.56	-584.01	6944.00	6974.00	-2133.98	-3164.90	-90.00	2745.86	239.50	11.49	PASS
8825.00†	6974.00	-1202.24	-683.85	6944.00	6974.00	-2133.98	-3164.90	-90.00	2650.24	240.71	11.03	PASS
8925.00†	6974.00	-1207.92	-783.69	6944.00	6974.00	-2133.98	-3164.90	-90.00	2554.95	242.08	10.58	PASS
9025.00†	6974.00	-1213.61	-883.52	6944.00	6974.00	-2133.98	-3164.90	-90.00	2460.04	243.62	10.12	PASS
9125.00†	6974.00	-1219.29	-983.36	6944.00	6974.00	-2133.98	-3164.90	-90.00	2365.54	245.36	9.66	PASS
9225.00†	6974.00	-1224.97	-1083.20	6944.00	6974.00	-2133.98	-3164.90	-90.00	2271.51	247.32	9.20	PASS
9325.00†	6974.00	-1230.65	-1183.04	6944.00	6974.00	-2133.98	-3164.90	-90.00	2178.02	249.52	8.75	PASS
9425.00†	6974.00	-1236.33	-1282.88	6944.00	6974.00	-2133.98	-3164.90	-90.00	2085.13	252.01	8.29	PASS
9525.00†	6974.00	-1242.02	-1382.72	6944.00	6974.00	-2133.98	-3164.90	-90.00	1992.93	254.82	7.84	PASS
9625.00†	6974.00	-1247.70	-1482.56	6944.00	6974.00	-2133.98	-3164.90	-90.00	1901.52	257.98	7.38	PASS
9725.00†	6974.00	-1253.38	-1582.39	6944.00	6974.00	-2133.98	-3164.90	-90.00	1811.02	261.54	6.94	PASS
9825.00†	6974.00	-1259.06	-1682.23	6944.00	6974.00	-2133.98	-3164.90	-90.00	1721.57	265.56	6.49	PASS
9925.00†	6974.00	-1264.75	-1782.07	6944.00	6974.00	-2133.98	-3164.90	-90.00	1633.34	270.09	6.06	PASS
10025.00†	6974.00	-1270.43	-1881.91	6944.00	6974.00	-2133.98	-3164.90	-90.00	1546.54	275.20	5.63	PASS
10125.00†	6974.00	-1276.11	-1981.75	6944.00	6974.00	-2133.98	-3164.90	-90.00	1461.44	280.95	5.21	PASS
10225.00†	6974.00	-1281.79	-2081.59	6944.00	6974.00	-2133.98	-3164.90	-90.00	1378.33	287.42	4.80	PASS
10325.00†	6974.00	-1287.47	-2181.42	6944.00	6974.00	-2133.98	-3164.90	-90.00	1297.61	294.68	4.41	PASS
10425.00†	6974.00	-1293.16	-2281.26	6944.00	6974.00	-2133.98	-3164.90	-90.00	1219.75	302.80	4.03	PASS
10525.00†	6974.00	-1298.84	-2381.10	6944.00	6974.00	-2133.98	-3164.90	-90.00	1145.34	311.82	3.68	PASS
10625.00†	6974.00	-1304.52	-2480.94	6944.00	6974.00	-2133.98	-3164.90	-90.00	1075.08	321.74	3.35	PASS
10725.00†	6974.00	-1310.20	-2580.78	6944.00	6974.00	-2133.98	-3164.90	-90.00	1009.86	332.49	3.04	PASS
10825.00†	6974.00	-1315.88	-2680.62	6944.00	6974.00	-2133.98	-3164.90	-90.00	950.69	343.90	2.77	PASS
10925.00†	6974.00	-1321.57	-2780.46	6944.00	6974.00	-2133.98	-3164.90	-90.00	898.78	355.63	2.53	PASS
11025.00†	6974.00	-1327.25	-2880.29	6944.00	6974.00	-2133.98	-3164.90	-90.00	855.46	367.14	2.33	PASS
11125.00†	6974.00	-1332.93	-2980.13	6944.00	6974.00	-2133.98	-3164.90	-90.00	822.08	377.72	2.18	PASS
11225.00†	6974.00	-1338.61	-3079.97	6944.00	6974.00	-2133.98	-3164.90	-90.00	799.89	386.53	2.07	PASS
11325.00†	6974.00	-1344.30	-3179.81	6944.00	6974.00	-2133.98	-3164.90	-90.00	789.82	392.78	2.01	PASS
11356.23†	6974.00	-1346.07	-3210.99	6943.06	6973.06	-2133.98	-3164.90	-89.93	789.25	394.10	2.00	PASS
11395.07†	6974.00	-1348.28	-3249.77	6944.00	6974.00	-2133.98	-3164.90	-90.00	790.27	395.35	2.00	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: FIRESTIEN #30-4-21 AWB Offset Wellpath: FIRESTIEN #30-4-21 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#07 EX FIRESTIEN #30-4-21 (155'FSL & 1098'FEL SEC.30, 7194'MD) Well: FIRESTIEN #30-4-21 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11425.00†	6974.00	-1349.98	-3279.65	6944.00	6974.00	-2133.98	-3164.90	-90.00	792.35	395.96	2.00	PASS
11525.00†	6974.00	-1355.66	-3379.49	6944.00	6974.00	-2133.98	-3164.90	-90.00	807.36	395.97	2.04	PASS
11625.00†	6974.00	-1361.34	-3479.32	6944.00	6974.00	-2133.98	-3164.90	-90.00	834.16	393.14	2.12	PASS
11725.00†	6974.00	-1367.02	-3579.16	6944.00	6974.00	-2133.98	-3164.90	-90.00	871.68	388.10	2.25	PASS
11825.00†	6974.00	-1372.71	-3679.00	6944.00	6974.00	-2133.98	-3164.90	-90.00	918.60	381.56	2.41	PASS
11925.00†	6974.00	-1378.39	-3778.84	6944.00	6974.00	-2133.98	-3164.90	-90.00	973.57	374.19	2.60	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: FIRESTIEN #30-4-21 AWB Offset Wellpath: FIRESTIEN #30-4-21 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: FIRESTIEN #30-4-21 AWB Offset Wellpath: FIRESTIEN #30-4-21 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	0.00	460.00	460.00	5.00	465.00	-1300.75	-1929.41	-1300.75	-1929.41
8.625in Casing Surface	0.00	460.00	460.00	5.00	465.00	-1300.75	-1929.41	-1300.75	-1929.41
7.875in Open Hole	460.00	7167.00	6707.00	465.00	7172.00	-1300.75	-1929.41	-1300.75	-1929.41
4.5in Casing Production	0.00	7167.00	7167.00	5.00	7172.00	-1300.75	-1929.41	-1300.75	-1929.41

WELLPATH COMPOSITION - Offset Wellbore: FIRESTIEN #30-4-21 AWB Offset Wellpath: FIRESTIEN #30-4-21 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7194.00	Drift Indicator - Inclination Only (Actual Survey)	DRIFT INDICATOR TO TD <7194' FROM CO WEBSITE>	FIRESTIEN #30-4-21 AWB



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

OFFSET WELLPATH REFERENCE - Offset Wellbore: FIRESTIEN #30-4-21 AWB Offset Wellpath: FIRESTIEN #30-4-21 AWP	
MD Reference: Rig on SLOT#07 EX FIRESTIEN #30-4-21 (155'FSL & 1098'FEL SEC.30, 7194'MD) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: TOLLGATE FARMS #29-12G6 AWB Offset Wellpath: TOLLGATE FARMS #29-12G6 AWP

Facility: SEC.29-T06N-R66W Slot: SLOT#10 EX TOLLGATE FARMS #29-12G6 (1987'FSL & 662'FWL, SEC.29, PA, 7215) Well: TOLLGATE FARMS #29-12G6 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	-2.00	25.00	-122.38	-1517.20	-94.61	1522.12	25.73	61.82	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: TOLLGATE FARMS #29-12G6 AWB Offset Wellpath: TOLLGATE FARMS #29-12G6 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: TOLLGATE FARMS #29-12G6 AWB Offset Wellpath: TOLLGATE FARMS #29-12G6 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
9.875in Open Hole	0.00	351.00	351.00	2.00	353.00	-74.58	-924.89	-74.58	-924.89
6.25in Open Hole	0.00	7217.00	7217.00	2.00	N/A	-74.58	-924.89	N/A	N/A

WELLPATH COMPOSITION - Offset Wellbore: TOLLGATE FARMS #29-12G6 AWB Offset Wellpath: TOLLGATE FARMS #29-12G6 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7215.00	Custom Drift Indicator (2.0 Maximum Inclination)	ASSUMED VERTICAL TO SURFACE-2DEG CONE <7215>	TOLLGATE FARMS #29-12G6 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: TOLLGATE FARMS #29-12G6 AWB Offset Wellpath: TOLLGATE FARMS #29-12G6 AWP

MD Reference: Rig on SLOT#10 EX TOLLGATE FARMS #29-12G6 (1987'FSL & 662'FWL, SEC.29, PA, 7215) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 32N-30C-M PWB Offset Wellpath: GOETZEL 32N-30C-M PWP (REV-C.0)

Facility: SEC.29-T06N-R66W Slot: SLOT#12 GOETZEL 32N-30C-M (2093'FNL & 2447'FEL, SEC.29) Well: GOETZEL 32N-30C-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	0.00	25.00	1042.26	820.67	38.22	1326.58	1.42	4418.18	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 32N-30C-M PWB Offset Wellpath: GOETZEL 32N-30C-M PWP (REV-C.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 32N-30C-M PWB Offset Wellpath: GOETZEL 32N-30C-M PWP (REV-C.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	4.00	1700.00	1696.00	8.00	1701.64	635.37	500.27	623.16	512.24
9.625in Casing Surface	4.00	1700.00	1696.00	8.00	1701.64	635.37	500.27	623.16	512.24
8.5in Open Hole	1700.00	15700.05	14000.05	1701.64	7047.00	623.16	512.24	414.35	-2109.38

SURVEY PROGRAM - Offset Wellbore: GOETZEL 32N-30C-M PWB Offset Wellpath: GOETZEL 32N-30C-M PWP (REV-C.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1700.00	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		GOETZEL 32N-30C-M PWB
1700.00	15701.00	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 32N-30C-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 32N-30C-M PWB Offset Wellpath: GOETZEL 32N-30C-M PWP (REV-C.0)

MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 32C-30-M PWB Offset Wellpath: GOETZEL 32C-30-M PWP (REV-C.0)

Facility: SEC.29-T06N-R66W Slot: SLOT#11 GOETZEL 32C-30-M (2073'FNL & 2446'FEL, SEC.29) Well: GOETZEL 32C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	0.00	25.00	1062.30	820.90	37.70	1342.52	1.42	4471.31	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 32C-30-M PWB Offset Wellpath: GOETZEL 32C-30-M PWP (REV-C.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 32C-30-M PWB Offset Wellpath: GOETZEL 32C-30-M PWP (REV-C.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	4.00	1700.00	1696.00	8.00	1702.73	647.59	500.41	642.47	510.99
9.625in Casing Surface	4.00	1700.00	1696.00	8.00	1702.73	647.59	500.41	642.47	510.99
8.5in Open Hole	1700.00	15810.83	14110.83	1702.73	7165.00	642.47	510.99	481.42	-2109.46

SURVEY PROGRAM - Offset Wellbore: GOETZEL 32C-30-M PWB Offset Wellpath: GOETZEL 32C-30-M PWP (REV-C.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1700.00	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		GOETZEL 32C-30-M PWB
1700.00	15811.00	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 32C-30-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 32C-30-M PWB Offset Wellpath: GOETZEL 32C-30-M PWP (REV-C.0)

MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 5N-30B-M PWB Offset Wellpath: GOETZEL 5N-30B-M PWP (REV-C.0)

Facility: SEC.29-T06N-R66W Slot: SLOT#10 GOETZEL 5N-30B-M (2053'FNL & 2446'FEL, SEC.29) Well: GOETZEL 5N-30B-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	0.00	25.00	1082.34	820.90	37.18	1358.43	1.42	4524.35	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 5N-30B-M PWB Offset Wellpath: GOETZEL 5N-30B-M PWP (REV-C.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 5N-30B-M PWB Offset Wellpath: GOETZEL 5N-30B-M PWP (REV-C.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	4.00	1700.00	1696.00	8.00	1702.84	659.80	500.41	657.71	511.48
9.625in Casing Surface	4.00	1700.00	1696.00	8.00	1702.84	659.80	500.41	657.71	511.48
8.5in Open Hole	1700.00	15641.03	13941.03	1702.84	7001.00	657.71	511.48	589.25	-2109.69

SURVEY PROGRAM - Offset Wellbore: GOETZEL 5N-30B-M PWB Offset Wellpath: GOETZEL 5N-30B-M PWP (REV-C.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1700.00	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		GOETZEL 5N-30B-M PWB
1700.00	15642.00	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 5N-30B-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 5N-30B-M PWB Offset Wellpath: GOETZEL 5N-30B-M PWP (REV-C.0)

MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL I #29-14 AWB Offset Wellpath: GOETZEL I #29-14 AWP

Facility: SEC.29-T06N-R66W Slot: SLOT#11 GOETZEL I #29-14 (515'FSL & 2490'FWL SEC.29, 7260'MD) Well: GOETZEL I #29-14 Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
25.00	25.00	0.00	0.00	4.50	25.00	-1653.99	429.75	165.44	1708.91	25.73	69.42	PASS	
125.00†	125.00	0.00	0.00	104.50	125.00	-1653.99	429.75	165.44	1708.91	29.54	59.68	PASS	
225.00†	225.00	0.00	0.00	204.50	225.00	-1653.99	429.75	165.44	1708.91	33.39	52.61	PASS	
325.00†	325.00	0.00	0.00	304.50	325.00	-1653.99	429.75	165.44	1708.91	37.24	47.03	PASS	
425.00†	425.00	0.00	0.00	404.50	425.00	-1653.99	429.75	165.44	1708.91	41.10	42.51	PASS	
525.00†	525.00	0.00	0.00	504.50	525.00	-1653.99	429.75	165.44	1708.91	44.96	38.79	PASS	
625.00†	625.00	0.00	0.00	604.50	625.00	-1653.99	429.75	165.44	1708.91	48.82	35.66	PASS	
725.00†	725.00	0.00	0.00	684.57	705.07	-1654.25	429.72	165.44	1709.27	50.13	34.60	PASS	
825.00†	825.00	0.00	0.00	774.80	795.29	-1655.95	429.73	165.45	1711.06	50.20	34.59	PASS	
850.00	850.00	0.00	0.00	803.37	823.85	-1656.39	429.90	165.45	1711.47	50.22	34.58	PASS	
925.00†	924.99	-0.60	0.78	920.84	941.31	-1656.18	430.63	38.00	1710.56	50.32	34.49	PASS	
1025.00†	1024.89	-3.25	4.24	1024.19	1044.65	-1654.92	431.35	38.12	1706.12	50.46	34.31	PASS	
1125.00†	1124.58	-8.02	10.47	1122.56	1143.01	-1653.61	431.65	38.35	1698.74	50.63	34.04	PASS	
1225.00†	1223.93	-14.91	19.45	1208.75	1229.19	-1653.08	431.06	38.69	1689.10	50.80	33.74	PASS	
1325.00†	1322.83	-23.90	31.19	1309.77	1330.21	-1652.60	432.08	39.13	1677.33	51.00	33.37	PASS	
1425.00†	1421.15	-34.98	45.65	1414.70	1435.13	-1651.55	433.21	39.69	1662.44	51.22	32.92	PASS	
1525.00†	1518.77	-48.14	62.83	1496.41	1516.83	-1651.25	433.30	40.31	1645.36	51.44	32.44	PASS	
1625.00†	1615.58	-63.37	82.71	1591.01	1611.44	-1651.57	432.73	41.14	1626.31	51.70	31.91	PASS	
1719.36	1706.08	-79.61	103.91	1680.23	1700.65	-1651.94	432.10	42.04	1606.23	51.71	31.38	PASS	
1725.00†	1711.46	-80.64	105.24	1685.29	1705.71	-1651.97	432.06	42.08	1604.97	51.72	31.35	PASS	
1825.00†	1806.89	-98.81	128.96	1776.71	1797.12	-1652.59	431.41	42.79	1582.97	51.88	30.83	PASS	
1925.00†	1902.32	-116.99	152.69	1877.02	1897.43	-1653.27	430.81	43.58	1561.26	52.08	30.29	PASS	
2025.00†	1997.75	-135.16	176.41	2017.10	2037.48	-1652.42	428.48	44.77	1538.57	52.36	29.68	PASS	
2125.00†	2093.18	-153.34	200.13	2135.83	2155.97	-1649.15	421.96	45.97	1513.48	52.64	29.04	PASS	
2225.00†	2188.61	-171.51	223.85	2226.51	2246.26	-1646.48	413.95	47.03	1488.28	52.92	28.41	PASS	
2325.00†	2284.04	-189.69	247.57	2331.40	2350.42	-1643.75	401.92	48.41	1463.74	53.24	27.76	PASS	
2425.00†	2379.48	-207.86	271.29	2436.87	2454.75	-1639.95	386.99	49.95	1438.72	53.60	27.10	PASS	
2525.00†	2474.91	-226.04	295.01	2531.71	2548.18	-1636.13	371.13	51.48	1414.04	54.00	26.44	PASS	
2625.00†	2570.34	-244.21	318.73	2625.02	2639.82	-1632.07	354.01	53.08	1390.04	54.43	25.78	PASS	
2725.00†	2665.77	-262.39	342.45	2709.09	2722.33	-1628.44	338.36	54.58	1367.23	54.89	25.15	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL I #29-14 AWB Offset Wellpath: GOETZEL I #29-14 AWP

Facility: SEC.29-T06N-R66W Slot: SLOT#11 GOETZEL I #29-14 (515'FSL & 2490'FWL SEC.29, 7260'MD) Well: GOETZEL I #29-14 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2825.00†	2761.20	-280.56	366.17	2794.62	2806.37	-1625.14	322.78	56.13	1346.04	55.39	24.53	PASS
2925.00†	2856.63	-298.74	389.89	2894.39	2904.37	-1620.69	304.64	57.99	1325.56	55.95	23.92	PASS
3025.00†	2952.06	-316.91	413.61	2985.25	2993.69	-1616.43	288.56	59.71	1306.19	56.53	23.32	PASS
3125.00†	3047.49	-335.08	437.33	3073.05	3080.07	-1612.10	273.42	61.39	1287.91	57.13	22.75	PASS
3225.00†	3142.92	-353.26	461.05	3155.46	3161.17	-1608.47	259.20	63.00	1271.47	57.76	22.21	PASS
3325.00†	3238.35	-371.43	484.77	3246.71	3251.04	-1604.73	243.85	64.80	1256.67	58.44	21.70	PASS
3425.00†	3333.78	-389.61	508.49	3342.25	3345.12	-1600.35	227.81	66.73	1242.90	59.17	21.19	PASS
3525.00†	3429.21	-407.78	532.21	3437.81	3439.16	-1595.46	211.55	68.71	1230.24	59.93	20.71	PASS
3625.00†	3524.64	-425.96	555.93	3527.89	3527.82	-1590.54	196.44	70.59	1218.81	60.70	20.25	PASS
3725.00†	3620.07	-444.13	579.65	3602.14	3600.97	-1586.93	184.23	72.16	1209.43	61.43	19.85	PASS
3825.00†	3715.51	-462.31	603.37	3680.89	3678.35	-1583.77	169.94	73.87	1202.88	62.19	19.50	PASS
3925.00†	3810.94	-480.48	627.09	3766.05	3761.91	-1580.43	153.81	75.76	1198.45	63.00	19.18	PASS
4025.00†	3906.37	-498.66	650.81	3852.26	3846.49	-1577.26	137.44	77.69	1196.04	63.84	18.89	PASS
4125.00†	4001.80	-516.83	674.53	3938.50	3931.20	-1574.49	121.55	79.59	1195.58	64.67	18.63	PASS
4225.00†	4097.23	-535.01	698.25	4019.35	4010.82	-1572.75	107.60	81.31	1197.19	65.47	18.43	PASS
4325.00†	4192.66	-553.18	721.97	4111.44	4101.60	-1571.75	92.14	83.24	1201.03	66.35	18.24	PASS
4425.00†	4288.09	-571.36	745.69	4228.95	4217.13	-1567.58	71.16	85.79	1205.19	67.42	18.01	PASS
4525.00†	4383.52	-589.53	769.41	4321.87	4308.44	-1562.65	54.63	87.83	1209.76	68.33	17.84	PASS
4625.00†	4478.95	-607.71	793.14	4409.95	4395.01	-1557.95	39.11	89.74	1215.96	69.21	17.70	PASS
4725.00†	4574.38	-625.88	816.86	4496.63	4480.22	-1553.46	23.83	91.61	1223.99	70.07	17.60	PASS
4825.00†	4669.81	-644.05	840.58	4588.06	4570.13	-1548.84	7.83	93.55	1233.71	70.96	17.51	PASS
4925.00†	4765.24	-662.23	864.30	4683.59	4664.16	-1543.87	-8.23	95.53	1244.51	71.88	17.44	PASS
5025.00†	4860.67	-680.40	888.02	4767.40	4746.46	-1538.80	-23.25	97.28	1257.09	72.70	17.41	PASS
5125.00†	4956.11	-698.58	911.74	4864.37	4841.75	-1532.95	-40.24	99.27	1271.03	73.62	17.39	PASS
5225.00†	5051.54	-716.75	935.46	4966.97	4943.00	-1528.19	-56.05	101.23	1285.80	74.57	17.36	PASS
5325.00†	5146.97	-734.93	959.18	5075.84	5050.99	-1524.99	-69.51	103.12	1300.61	75.55	17.33	PASS
5425.00†	5242.40	-753.10	982.90	5192.19	5166.79	-1523.29	-80.56	104.95	1315.24	76.56	17.30	PASS
5525.00†	5337.83	-771.28	1006.62	5320.66	5295.10	-1523.55	-86.67	106.71	1327.79	77.60	17.22	PASS
5625.00†	5433.26	-789.45	1030.34	5419.82	5394.21	-1523.86	-90.12	108.00	1340.26	78.46	17.19	PASS
5725.00†	5528.69	-807.63	1054.06	5517.05	5491.40	-1524.63	-92.90	109.22	1353.14	79.32	17.17	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL I #29-14 AWB Offset Wellpath: GOETZEL I #29-14 AWP

Facility: SEC.29-T06N-R66W Slot: SLOT#11 GOETZEL I #29-14 (515'FSL & 2490'FWL SEC.29, 7260'MD) Well: GOETZEL I #29-14 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5825.00†	5624.12	-825.80	1077.78	5629.03	5603.33	-1526.93	-94.34	110.51	1365.97	80.23	17.13	PASS
5925.00†	5719.55	-843.98	1101.50	5733.15	5707.45	-1528.12	-94.87	111.70	1378.22	81.11	17.10	PASS
6025.00†	5814.98	-862.15	1125.22	5828.40	5802.69	-1529.24	-95.24	112.76	1390.92	81.95	17.08	PASS
6125.00†	5910.41	-880.33	1148.94	5924.90	5899.17	-1530.90	-95.26	113.80	1404.07	82.80	17.06	PASS
6225.00†	6005.84	-898.50	1172.66	6021.49	5995.73	-1533.23	-94.90	114.79	1417.63	83.65	17.05	PASS
6325.00†	6101.27	-916.68	1196.38	6118.26	6092.45	-1536.31	-94.13	115.73	1431.58	84.50	17.04	PASS
6337.66	6113.36	-918.98	1199.39	6133.67	6107.85	-1536.91	-93.92	115.87	1433.36	84.62	17.04	PASS
6425.00†	6197.68	-935.35	1214.89	6233.18	6207.21	-1541.75	-91.32	96.39	1440.14	85.42	16.96	PASS
6525.00†	6295.51	-955.09	1219.69	6338.75	6312.71	-1544.82	-88.99	60.25	1435.52	86.37	16.72	PASS
6625.00†	6392.89	-975.53	1210.57	6437.69	6411.60	-1546.55	-86.69	29.38	1417.50	87.28	16.34	PASS
6725.00†	6487.92	-996.27	1187.72	6540.59	6514.47	-1547.33	-84.64	12.54	1386.82	88.21	15.81	PASS
6825.00†	6578.76	-1016.92	1151.57	6632.92	6606.78	-1547.05	-82.74	2.77	1343.63	89.06	15.17	PASS
6925.00†	6663.63	-1037.05	1102.83	6720.53	6694.38	-1546.62	-80.79	-4.31	1289.01	89.85	14.43	PASS
7025.00†	6740.88	-1056.30	1042.46	6796.92	6770.74	-1546.10	-79.00	-10.83	1224.12	90.60	13.59	PASS
7125.00†	6809.01	-1074.27	971.61	6864.77	6838.57	-1545.46	-77.43	-18.21	1150.39	91.35	12.66	PASS
7225.00†	6866.70	-1090.62	891.68	6920.80	6894.58	-1544.87	-76.10	-27.85	1069.45	92.13	11.67	PASS
7325.00†	6912.82	-1105.03	804.22	6964.64	6938.41	-1544.31	-75.10	-41.19	983.28	93.02	10.63	PASS
7425.00†	6946.47	-1117.23	710.93	6995.95	6969.71	-1543.86	-74.42	-58.72	894.05	94.08	9.55	PASS
7525.00†	6966.99	-1126.96	613.63	7014.20	6987.94	-1543.58	-74.03	-77.54	804.29	95.45	8.47	PASS
7625.00†	6974.00	-1134.06	514.21	7018.98	6992.73	-1543.51	-73.93	-92.69	716.88	97.28	7.41	PASS
7626.30	6974.00	-1134.13	512.92	7018.96	6992.70	-1543.51	-73.93	-92.85	715.77	97.30	7.39	PASS
7725.00†	6974.00	-1139.74	414.37	7016.79	6990.54	-1543.54	-73.98	-92.52	633.89	99.77	6.38	PASS
7825.00†	6974.00	-1145.42	314.54	7014.59	6988.34	-1543.57	-74.02	-92.19	556.52	103.22	5.41	PASS
7925.00†	6974.00	-1151.10	214.70	7012.38	6986.13	-1543.61	-74.07	-91.85	487.44	107.80	4.54	PASS
8025.00†	6974.00	-1156.78	114.86	7010.16	6983.91	-1543.64	-74.12	-91.51	430.66	113.36	3.81	PASS
8125.00†	6974.00	-1162.47	15.02	7007.93	6981.68	-1543.68	-74.16	-91.17	391.58	118.95	3.30	PASS
8225.00†	6974.00	-1168.15	-84.82	7005.70	6979.45	-1543.71	-74.21	-90.83	375.75	122.64	3.07	PASS
8236.22†	6974.00	-1168.79	-96.02	7005.35	6979.10	-1543.71	-74.22	-90.78	375.60	122.85	3.07	PASS
8249.44†	6974.00	-1169.54	-109.22	7005.15	6978.90	-1543.72	-74.22	-90.75	375.84	123.04	3.06	PASS
8325.00†	6974.00	-1173.83	-184.66	7003.46	6977.21	-1543.74	-74.26	-90.49	386.05	122.87	3.15	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL I #29-14 AWB Offset Wellpath: GOETZEL I #29-14 AWP

Facility: SEC.29-T06N-R66W Slot: SLOT#11 GOETZEL I #29-14 (515'FSL & 2490'FWL SEC.29, 7260'MD) Well: GOETZEL I #29-14 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8425.00†	6974.00	-1179.51	-284.49	7001.21	6974.96	-1543.78	-74.31	-90.15	420.56	120.10	3.51	PASS
8525.00†	6974.00	-1185.20	-384.33	6998.95	6972.70	-1543.81	-74.35	-89.80	474.02	116.01	4.10	PASS
8625.00†	6974.00	-1190.88	-484.17	6996.68	6970.44	-1543.84	-74.40	-89.46	540.84	111.96	4.85	PASS
8725.00†	6974.00	-1196.56	-584.01	6994.41	6968.16	-1543.88	-74.45	-89.11	616.69	108.49	5.71	PASS
8825.00†	6974.00	-1202.24	-683.85	6992.12	6965.88	-1543.91	-74.50	-88.76	698.65	105.68	6.64	PASS
8925.00†	6974.00	-1207.92	-783.69	6989.83	6963.59	-1543.95	-74.55	-88.41	784.79	103.46	7.62	PASS
9025.00†	6974.00	-1213.61	-883.52	6987.53	6961.29	-1543.98	-74.60	-88.06	873.88	101.70	8.63	PASS
9125.00†	6974.00	-1219.29	-983.36	6985.23	6958.98	-1544.01	-74.65	-87.71	965.11	100.30	9.67	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL I #29-14 AWB Offset Wellpath: GOETZEL I #29-14 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL I #29-14 AWB Offset Wellpath: GOETZEL I #29-14 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	10.50	654.50	644.00	16.50	660.50	-1008.27	261.98	-1008.28	261.98
8.625in Casing Surface	10.50	654.50	644.00	16.50	660.50	-1008.27	261.98	-1008.28	261.98
7.875in Open Hole	654.50	7239.50	6585.00	660.50	7198.70	-1008.28	261.98	-973.82	109.58
4.5in Casing Production	10.50	7239.50	7229.00	16.50	7198.70	-1008.27	261.98	-973.82	109.58



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

WELLPATH COMPOSITION - Offset Wellbore: GOETZEL I #29-14 AWB Offset Wellpath: GOETZEL I #29-14 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7217.00	ISCWSA MWD, Rev. 4 (Standard)	ENSIGN MWD SURVEYS FROM CO WEBSITE <642-7217>	GOETZEL I #29-14 AWB
7217.00	7260.00	Blind Drilling (std)	Projection to bit	GOETZEL I #29-14 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL I #29-14 AWB Offset Wellpath: GOETZEL I #29-14 AWP

MD Reference: 10.5' RIG FROM SURVEYS (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	10.50ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 5C-30-M PWB Offset Wellpath: GOETZEL 5C-30-M PWP (REV-C.0)

Facility: SEC.29-T06N-R66W Slot: SLOT#09 GOETZEL 5C-30-M (2033'FNL & 2446'FEL, SEC.29) Well: GOETZEL 5C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	0.00	25.00	1102.37	820.90	36.67	1374.45	1.43	4577.74	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 5C-30-M PWB Offset Wellpath: GOETZEL 5C-30-M PWP (REV-C.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 5C-30-M PWB Offset Wellpath: GOETZEL 5C-30-M PWP (REV-C.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	4.00	1700.00	1696.00	8.00	1702.99	672.01	500.41	675.38	509.33
9.625in Casing Surface	4.00	1700.00	1696.00	8.00	1702.99	672.01	500.41	675.38	509.33
8.5in Open Hole	1700.00	15818.42	14118.42	1702.99	7173.00	675.38	509.33	633.44	-2109.76

SURVEY PROGRAM - Offset Wellbore: GOETZEL 5C-30-M PWB Offset Wellpath: GOETZEL 5C-30-M PWP (REV-C.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1700.00	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		GOETZEL 5C-30-M PWB
1700.00	15819.00	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 5C-30-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 5C-30-M PWB Offset Wellpath: GOETZEL 5C-30-M PWP (REV-C.0)

MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: TIGGES #30-31 AWB Offset Wellpath: TIGGES #30-31 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#04 EX TIGGES #30-31 (2170'FSL & 2550'FEL, SEC.30, PR, 7289') Well: TIGGES #30-31 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	12.89	29.89	-224.15	-5643.35	-92.28	5647.80	50.13	114.77	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: TIGGES #30-31 AWB Offset Wellpath: TIGGES #30-31 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: TIGGES #30-31 AWB Offset Wellpath: TIGGES #30-31 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	0.00	366.00	366.00	-8.00	357.99	-136.25	-3440.21	-135.56	-3439.91
8.625in Casing Surface	0.00	366.00	366.00	-8.00	357.99	-136.25	-3440.21	-135.56	-3439.91
7.875in Open Hole	366.00	7288.00	6922.00	357.99	7278.00	-135.56	-3439.91	-156.70	-3465.06
4.5in Casing Production	0.00	7288.00	7288.00	-8.00	7278.00	-136.25	-3440.21	-156.70	-3465.06

WELLPATH COMPOSITION - Offset Wellbore: TIGGES #30-31 AWB Offset Wellpath: TIGGES #30-31 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	6742.00	VESSI GyroFlex v4	VES GYRO SURVEYS FROM CO WEBSITE <100-6742>	TIGGES #30-31 AWB
6742.00	7289.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE-2DEG CONE <7289>	TIGGES #30-31 AWB



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

OFFSET WELLPATH REFERENCE - Offset Wellbore: TIGGES #30-31 AWB Offset Wellpath: TIGGES #30-31 AWP	
MD Reference: Rig on SLOT#04 EX TIGGES #30-31 (2170'FSL & 2550'FEL, SEC.30, PR, 7289') (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 31N-30C-M PWB Offset Wellpath: GOETZEL 31N-30C-M PWP (REV-C.0)

Facility: SEC.29-T06N-R66W Slot: SLOT#08 GOETZEL 31N-30C-M (2013'FNL & 2446'FEL, SEC.29) Well: GOETZEL 31N-30C-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	0.00	25.00	1122.41	821.21	36.19	1390.75	1.42	4632.09	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 31N-30C-M PWB Offset Wellpath: GOETZEL 31N-30C-M PWP (REV-C.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 31N-30C-M PWB Offset Wellpath: GOETZEL 31N-30C-M PWP (REV-C.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	4.00	1700.00	1696.00	8.00	1701.50	684.23	500.60	696.73	510.65
9.625in Casing Surface	4.00	1700.00	1696.00	8.00	1701.50	684.23	500.60	696.73	510.65
8.5in Open Hole	1700.00	15731.87	14031.87	1701.50	7061.00	696.73	510.65	706.73	-2109.82

SURVEY PROGRAM - Offset Wellbore: GOETZEL 31N-30C-M PWB Offset Wellpath: GOETZEL 31N-30C-M PWP (REV-C.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1700.00	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		GOETZEL 31N-30C-M PWB
1700.00	15732.00	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 31N-30C-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 31N-30C-M PWB Offset Wellpath: GOETZEL 31N-30C-M PWP (REV-C.0)

MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 31C-30-M PWB Offset Wellpath: GOETZEL 31C-30-M PWP (REV-C.0)

Facility: SEC.29-T06N-R66W Slot: SLOT#07 GOETZEL 31C-30-M (1993'FNL & 2446'FEL, SEC.29) Well: GOETZEL 31C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	0.00	25.00	1142.45	821.21	35.71	1406.97	1.43	4686.16	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 31C-30-M PWB Offset Wellpath: GOETZEL 31C-30-M PWP (REV-C.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 31C-30-M PWB Offset Wellpath: GOETZEL 31C-30-M PWP (REV-C.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	4.00	1700.00	1696.00	8.00	1700.29	696.44	500.60	714.18	511.88
9.625in Casing Surface	4.00	1700.00	1696.00	8.00	1700.29	696.44	500.60	714.18	511.88
8.5in Open Hole	1700.00	15848.75	14148.75	1700.29	7169.00	714.18	511.88	780.24	-2109.97

SURVEY PROGRAM - Offset Wellbore: GOETZEL 31C-30-M PWB Offset Wellpath: GOETZEL 31C-30-M PWP (REV-C.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1700.00	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		GOETZEL 31C-30-M PWB
1700.00	15849.00	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 31C-30-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 31C-30-M PWB Offset Wellpath: GOETZEL 31C-30-M PWP (REV-C.0)

MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 31N-30B-M PWB Offset Wellpath: GOETZEL 31N-30B-M PWP (REV-C.0)

Facility: SEC.29-T06N-R66W Slot: SLOT#06 GOETZEL 31N-30B-M (1913'FNL & 2446'FEL, SEC.29) Well: GOETZEL 31N-30B-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	0.00	25.00	1222.60	821.75	33.91	1473.10	1.42	4906.57	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 31N-30B-M PWB Offset Wellpath: GOETZEL 31N-30B-M PWP (REV-C.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 31N-30B-M PWB Offset Wellpath: GOETZEL 31N-30B-M PWP (REV-C.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	4.00	1700.00	1696.00	8.00	1698.17	745.30	500.92	770.09	513.78
9.625in Casing Surface	4.00	1700.00	1696.00	8.00	1698.17	745.30	500.92	770.09	513.78
8.5in Open Hole	1700.00	15699.53	13999.53	1698.17	7001.00	770.09	513.78	872.18	-2109.95

SURVEY PROGRAM - Offset Wellbore: GOETZEL 31N-30B-M PWB Offset Wellpath: GOETZEL 31N-30B-M PWP (REV-C.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1700.00	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		GOETZEL 31N-30B-M PWB
1700.00	15700.00	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 31N-30B-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 31N-30B-M PWB Offset Wellpath: GOETZEL 31N-30B-M PWP (REV-C.0)

MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 4C-30-M PWB Offset Wellpath: GOETZEL 4C-30-M PWP (REV-C.0)

Facility: SEC.29-T06N-R66W Slot: SLOT#05 GOETZEL 4C-30-M (1893'FNL & 2446'FEL, SEC.29) Well: GOETZEL 4C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	0.00	25.00	1242.33	821.75	33.48	1489.51	1.42	4961.30	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 4C-30-M PWB Offset Wellpath: GOETZEL 4C-30-M PWP (REV-C.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 4C-30-M PWB Offset Wellpath: GOETZEL 4C-30-M PWP (REV-C.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	4.00	1700.00	1696.00	8.00	1695.33	757.33	500.92	790.50	514.53
9.625in Casing Surface	4.00	1700.00	1696.00	8.00	1695.33	757.33	500.92	790.50	514.53
8.5in Open Hole	1700.00	15885.90	14185.90	1695.33	7161.00	790.50	514.53	944.71	-2110.11

SURVEY PROGRAM - Offset Wellbore: GOETZEL 4C-30-M PWB Offset Wellpath: GOETZEL 4C-30-M PWP (REV-C.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1700.00	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		GOETZEL 4C-30-M PWB
1700.00	15886.00	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 4C-30-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 4C-30-M PWB Offset Wellpath: GOETZEL 4C-30-M PWP (REV-C.0)

MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 4N-30A-M PWB Offset Wellpath: GOETZEL 4N-30A-M PWP (REV-C.0)

Facility: SEC.29-T06N-R66W Slot: SLOT#04 GOETZEL 4N-30A-M (1873'FNL & 2446'FEL, SEC.29) Well: GOETZEL 4N-30A-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	0.00	25.00	1262.37	822.06	33.07	1506.44	1.42	5017.70	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 4N-30A-M PWB Offset Wellpath: GOETZEL 4N-30A-M PWP (REV-C.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 4N-30A-M PWB Offset Wellpath: GOETZEL 4N-30A-M PWP (REV-C.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	4.00	1700.00	1696.00	8.00	1690.35	769.55	501.11	813.80	516.31
9.625in Casing Surface	4.00	1700.00	1696.00	8.00	1690.35	769.55	501.11	813.80	516.31
8.5in Open Hole	1700.00	15614.38	13914.38	1690.35	6850.00	813.80	516.31	1017.67	-2110.16

SURVEY PROGRAM - Offset Wellbore: GOETZEL 4N-30A-M PWB Offset Wellpath: GOETZEL 4N-30A-M PWP (REV-C.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1700.00	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		GOETZEL 4N-30A-M PWB
1700.00	15615.00	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 4N-30A-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 4N-30A-M PWB Offset Wellpath: GOETZEL 4N-30A-M PWP (REV-C.0)

MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 4N-30C-M PWB Offset Wellpath: GOETZEL 4N-30C-M PWP (REV-C.0)

Facility: SEC.29-T06N-R66W Slot: SLOT#03 GOETZEL 4N-30C-M (1853'FNL & 2445'FEL, SEC.29) Well: GOETZEL 4N-30C-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	0.00	25.00	1282.41	822.05	32.66	1523.27	1.42	5073.80	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 4N-30C-M PWB Offset Wellpath: GOETZEL 4N-30C-M PWP (REV-C.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 4N-30C-M PWB Offset Wellpath: GOETZEL 4N-30C-M PWP (REV-C.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	4.00	1700.00	1696.00	8.00	1685.83	781.76	501.11	835.90	516.91
9.625in Casing Surface	4.00	1700.00	1696.00	8.00	1685.83	781.76	501.11	835.90	516.91
8.5in Open Hole	1700.00	15833.41	14133.41	1685.83	7034.00	835.90	516.91	1099.18	-2110.31

SURVEY PROGRAM - Offset Wellbore: GOETZEL 4N-30C-M PWB Offset Wellpath: GOETZEL 4N-30C-M PWP (REV-C.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1700.00	Custom NaviTrak (Standard) (Rockies 0.03Gt model)		GOETZEL 4N-30C-M PWB
1700.00	15834.00	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 4N-30C-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 4N-30C-M PWB Offset Wellpath: GOETZEL 4N-30C-M PWP (REV-C.0)

MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 30C-30-M PWB Offset Wellpath: GOETZEL 30C-30-M PWP (REV-C.0)

Facility: SEC.29-T06N-R66W Slot: SLOT#02 GOETZEL 30C-30-M (1833'FNL & 2445'FEL, SEC.29) Well: GOETZEL 30C-30-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	0.00	25.00	1302.44	822.29	32.27	1540.30	1.43	5130.57	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 30C-30-M PWB Offset Wellpath: GOETZEL 30C-30-M PWP (REV-C.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 30C-30-M PWB Offset Wellpath: GOETZEL 30C-30-M PWP (REV-C.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	4.00	1700.00	1696.00	8.00	1680.20	793.98	501.25	859.02	517.81
9.625in Casing Surface	4.00	1700.00	1696.00	8.00	1680.20	793.98	501.25	859.02	517.81
8.75in Open Hole	1700.00	15620.60	13920.60	1680.20	7139.00	859.02	517.81	1169.66	-2000.65

SURVEY PROGRAM - Offset Wellbore: GOETZEL 30C-30-M PWB Offset Wellpath: GOETZEL 30C-30-M PWP (REV-C.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1700.00	Custom NaviTrak (Standard) (Rockies 0.03Gt model)		GOETZEL 30C-30-M PWB
1700.00	15621.00	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 30C-30-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 30C-30-M PWB Offset Wellpath: GOETZEL 30C-30-M PWP (REV-C.0)

MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 30N-30B-M PWB Offset Wellpath: GOETZEL 30N-30B-M PWP (REV-C.0)

Facility: SEC.29-T06N-R66W Slot: SLOT#01 GOETZEL 30N-30B-M (1813'FNL & 2445'FEL, SEC.29) Well: GOETZEL 30N-30B-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	0.00	25.00	1322.48	822.29	31.87	1557.28	1.42	5187.17	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 30N-30B-M PWB Offset Wellpath: GOETZEL 30N-30B-M PWP (REV-C.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 30N-30B-M PWB Offset Wellpath: GOETZEL 30N-30B-M PWP (REV-C.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	4.00	1700.00	1696.00	8.00	1671.85	806.19	501.25	884.75	519.05
9.625in Casing Surface	4.00	1700.00	1696.00	8.00	1671.85	806.19	501.25	884.75	519.05
8.5in Open Hole	1700.00	15507.19	13807.19	1671.85	6970.00	884.75	519.05	1246.61	-2000.80

SURVEY PROGRAM - Offset Wellbore: GOETZEL 30N-30B-M PWB Offset Wellpath: GOETZEL 30N-30B-M PWP (REV-C.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1700.00	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		GOETZEL 30N-30B-M PWB
1700.00	15508.00	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GOETZEL 30N-30B-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 30N-30B-M PWB Offset Wellpath: GOETZEL 30N-30B-M PWP (REV-C.0)

MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL #1-29 AWB Offset Wellpath: GOETZEL #1-29 AWP

Facility: SEC.29-T06N-R66W Slot: SLOT#04 EX GOETZEL #1-29 (1980'FNL & 1980'FEL, SEC.29, PR, 7208) Well: GOETZEL #1-29 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	-5.00	25.00	1146.92	1268.65	47.89	1710.23	25.73	69.47	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL #1-29 AWB Offset Wellpath: GOETZEL #1-29 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL #1-29 AWB Offset Wellpath: GOETZEL #1-29 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	0.00	432.00	432.00	5.00	437.00	699.18	773.35	699.18	773.35
8.625in Casing Surface	0.00	432.00	432.00	5.00	437.00	699.18	773.35	699.18	773.35
7.875in Open Hole	432.00	7185.00	6753.00	437.00	7190.00	699.18	773.35	699.18	773.35
4.5in Casing Production	0.00	7185.00	7185.00	5.00	7190.00	699.18	773.35	699.18	773.35

WELLPATH COMPOSITION - Offset Wellbore: GOETZEL #1-29 AWB Offset Wellpath: GOETZEL #1-29 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7208.00	Custom Drift Indicator (2.0 Maximum Inclination)	ASSUMED VERTICAL TO SURFACE-2DEG CONE <7208>	GOETZEL #1-29 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL #1-29 AWB Offset Wellpath: GOETZEL #1-29 AWP

MD Reference: Rig on SLOT#04 EX GOETZEL #1-29 (1980'FNL & 1980'FEL, SEC.29, PR, 7208) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: HARRINGTON #1-30 AWB Offset Wellpath: HARRINGTON #1-30 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#01 EX HARRINGTON #1-30 (2310'FNL & 2805'FWL, SEC.30, SI, 4398) Well: HARRINGTON #1-30 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	-25.00	334.00	565.92	-5093.02	-83.66	5133.68	25.69	208.95	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: HARRINGTON #1-30 AWB Offset Wellpath: HARRINGTON #1-30 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: HARRINGTON #1-30 AWB Offset Wellpath: HARRINGTON #1-30 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	0.00	210.00	210.00	334.00	544.00	345.31	-3104.67	345.31	-3104.67
8.625in Casing Surface	0.00	210.00	210.00	334.00	544.00	345.31	-3104.67	345.31	-3104.67
7.875in Open Hole	210.00	4397.00	4187.00	544.00	4731.00	345.31	-3104.67	345.31	-3104.67
4.5in Casing Production	0.00	4397.00	4397.00	334.00	4731.00	345.31	-3104.67	345.31	-3104.67

WELLPATH COMPOSITION - Offset Wellbore: HARRINGTON #1-30 AWB Offset Wellpath: HARRINGTON #1-30 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	4398.00	Custom Drift Indicator (2.0 Maximum Inclination)	ASSUMED VERTICAL TO SURFACE-2 DEG CONE <4398>	HARRINGTON #1-30 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARRINGTON #1-30 AWB Offset Wellpath: HARRINGTON #1-30 AWP

MD Reference: Rig on SLOT#01 HARRINGTON #1-30 (2310'FNL & 2805'FWL, SEC.30, SI, 4398) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: FIRESTIEN #1-30 AWB Offset Wellpath: FIRESTIEN #1-30 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#01 EX FIRESTIEN #1-30 (610'FSL & 1820'FEL SEC.30, 4500'MD) Well: FIRESTIEN #1-30 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	0.00	25.00	-1721.10	-3922.95	-113.69	4283.89	50.13	87.05	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: FIRESTIEN #1-30 AWB Offset Wellpath: FIRESTIEN #1-30 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: FIRESTIEN #1-30 AWB Offset Wellpath: FIRESTIEN #1-30 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	0.00	204.00	204.00	0.00	204.00	-1048.99	-2391.51	-1048.99	-2391.51
8.625in Casing Surface	0.00	204.00	204.00	0.00	204.00	-1048.99	-2391.51	-1048.99	-2391.51
4.5in Casing Production	0.00	4399.00	4399.00	0.00	4399.00	-1048.99	-2391.51	-1048.99	-2391.51

WELLPATH COMPOSITION - Offset Wellbore: FIRESTIEN #1-30 AWB Offset Wellpath: FIRESTIEN #1-30 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	4500.00	Drift Indicator - Inclination Only (Actual Survey)	DRIFT INDICATOR TO TD <4500' FROM CO WEBSITE>	FIRESTIEN #1-30 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: FIRESTIEN #1-30 AWB Offset Wellpath: FIRESTIEN #1-30 AWP

MD Reference: Rig on SLOT#01 EX FIRESTIEN #1-30 (610'FSL & 1820'FEL SEC.30, 4500'MD) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



Clearance Report

GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: BOB TIGGES #1-30 AWB Offset Wellpath: BOB TIGGES #1-30 AWP

Facility: SEC.30-T06N-R66W Slot: SLOT#03 EX BOB TIGGES #1-30 (800'FSL & 2745'FWL SEC.30, 4350'MD) Well: BOB TIGGES #1-30 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	-6.00	25.00	-1609.04	-5107.39	-107.49	5354.85	25.73	217.61	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: BOB TIGGES #1-30 AWB Offset Wellpath: BOB TIGGES #1-30 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: BOB TIGGES #1-30 AWB Offset Wellpath: BOB TIGGES #1-30 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	0.00	221.00	221.00	6.00	227.00	-980.55	-3113.56	-980.55	-3113.56
8.625in Casing Surface	0.00	221.00	221.00	6.00	227.00	-980.55	-3113.56	-980.55	-3113.56
7.875in Open Hole	221.00	4345.00	4124.00	227.00	4351.00	-980.55	-3113.56	-980.55	-3113.56
4.5in Casing Production	0.00	4345.00	4345.00	6.00	4351.00	-980.55	-3113.56	-980.55	-3113.56

WELLPATH COMPOSITION - Offset Wellbore: BOB TIGGES #1-30 AWB Offset Wellpath: BOB TIGGES #1-30 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	4350.00	Drift Indicator - Inclination Only (Actual Survey)	DRIFT INDICATOR TO TD <4350' FROM CO WEBSITE>	BOB TIGGES #1-30 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: BOB TIGGES #1-30 AWB Offset Wellpath: BOB TIGGES #1-30 AWP

MD Reference: Rig on SLOT#03 EX BOB TIGGES #1-30 (800'FSL & 2745'FWL SEC.30, 4350'MD) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



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GOETZEL 13N-30C-M REV-A.0 PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	SYNERGY RESOURCES CORPORATION	Slot	SLOT#20 GOETZEL 13N-30C-M (2177'FSL & 2053'FWL, SEC.29)
Area	COLORADO	Well	GOETZEL 13N-30C-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GOETZEL 13N-30C-M PWB
Facility	SEC.29-T06N-R66W		

CLEARANCE DATA - Offset Wellbore: GOETZEL 30N-30B-M AWB Offset Wellpath: GOETZEL 30N-30B-M AWP

Facility: SEC.29-T06N-R66W Slot: SLOT#01 GOETZEL 30N-30B-M (1813'FNL & 2445'FEL, SEC.29) Well: GOETZEL 30N-30B-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
25.00	25.00	0.00	0.00	0.00	25.00	1322.48	822.29	31.87	1557.28	1.42	5187.17	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GOETZEL 30N-30B-M AWB Offset Wellpath: GOETZEL 30N-30B-M AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: GOETZEL 30N-30B-M AWB Offset Wellpath: GOETZEL 30N-30B-M AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	4.00	1230.00	1226.00	8.00	1225.00	806.19	501.25	838.49	510.05

WELLPATH COMPOSITION - Offset Wellbore: GOETZEL 30N-30B-M AWB Offset Wellpath: GOETZEL 30N-30B-M AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1170.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)	BHI NAVITRAK 13.5" MWD (STD ROTATING, AXIAL, ROCKIES GT)<55-1170...	GOETZEL 30N-30B-M AWB
1170.00	1230.00	Blind Drilling (std)	Projection to bit	GOETZEL 30N-30B-M AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: GOETZEL 30N-30B-M AWB Offset Wellpath: GOETZEL 30N-30B-M AWP

MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft