

EXTRACTION OIL & GAS

Weld County

Sec 35-T7N-R67W

HERGERT SOUTH 35W-15-5N

ORIGINAL WELLBORE

Plan: PROPOSAL 1

Standard Planning Report

28 August, 2017



WELL DETAILS: HERGERT SOUTH 35W-15-5N

+N/-S	+E/-W	Northing	Easting	4883.00	Latitude	Longitude	Slot
0.00	0.00	1436425.28	3179738.96	40° 31' 46.520 N	104° 51' 12.240 W		

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	
3	1382.00	11.64	132.39	1378.00	-39.72	43.51	2.00	132.39	-39.88	
4	5844.77	11.64	132.39	5749.00	-646.78	708.51	0.00	0.00	-649.44	
5	6426.77	0.00	0.00	6327.00	-686.50	752.02	2.00	180.00	-689.33	
6	6526.77	0.00	0.00	6427.00	-686.50	752.02	0.00	0.00	-689.33	
7	7426.85	90.00	270.42	7000.00	-682.34	179.02	10.00	270.42	-118.87	HS 35W-15-5N LP
8	14793.92	90.00	270.42	7000.00	-628.83	-7187.86	0.00	0.00	7215.31	HS 35W-15-5N PBH

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	BUILD 2°/100'
1382.00	11.64	132.39	1378.00	-39.72	43.51	-39.88	58.91	HOLD 11.67° INC
5844.77	11.64	132.39	5749.00	-646.78	708.51	-649.44	959.33	DROP 2°/100'
6426.77	0.00	0.00	6327.00	-686.50	752.02	-689.33	1018.24	HOLD VERTICAL
6526.77	0.00	0.00	6427.00	-686.50	752.02	-689.33	1018.24	KOP, BUILD 10°/100'
7426.85	90.00	270.42	7000.00	-682.34	179.02	-118.87	1591.25	LP @ 90° INC, 270.42° AZM HOLD
14793.92	90.00	270.42	7000.00	-628.83	-7187.86	7215.31	8958.33	TD at 14793.92' MD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	40° 31'	Latitude	Longitude	Shape
HS 35W-15-5N LP	7000.00	-682.34	179.02	1435744.26	3179922.95	39.778 N	104° 51' 9.922 W		Point
- plan hits target center									
HS 35W-15-5N PBHL	7000.00	-628.83	-7187.86	1435744.05	3172555.88	40.296 N	104° 52' 45.325 W		Point
- plan hits target center									

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3620.00	3671.07	PARKMAN
4351.00	4417.42	SUSSEX
4742.00	4816.63	SHANNON
6990.00	7319.63	NIOBRARA

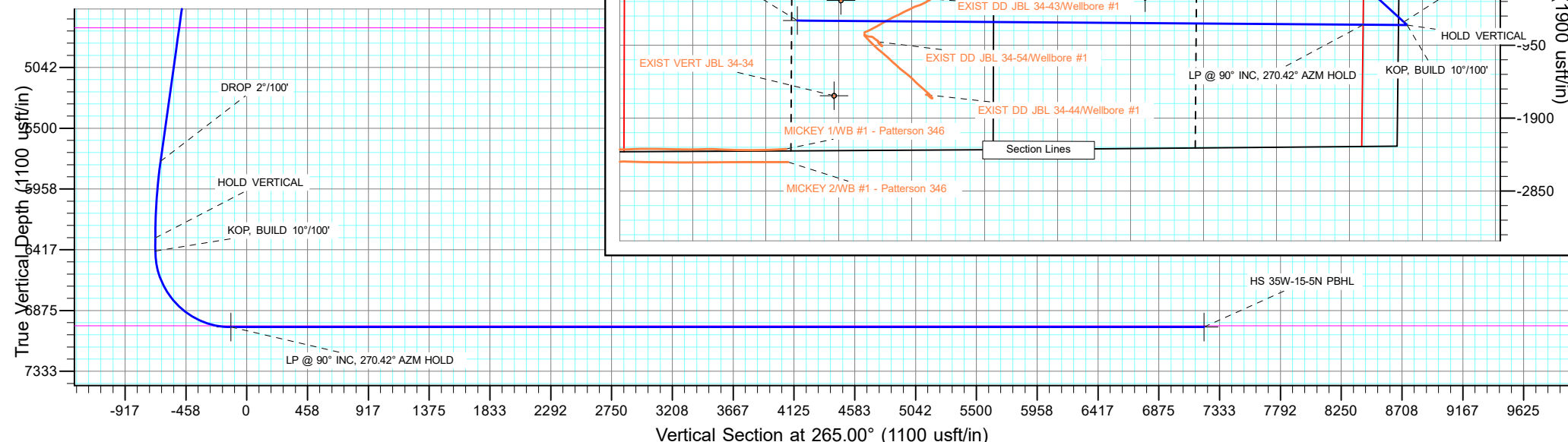
PROJECT DETAILS: Weld County

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone
System Datum: Mean Sea Level

SHL:
2272' FSL, 647' FEL
Sec 35-T7N-R67W

LP:
1587' FSL, 460' FEL
Sec 35-T7N-R67W

BHL:
1697' FSL, 2555' FEL
Sec 34-T7N-R67W



Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well HERGERT SOUTH 35W-15-5N
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 4908.00usft
Project:	Weld County	MD Reference:	KB 25' @ 4908.00usft
Site:	Sec 35-T7N-R67W	North Reference:	True
Well:	HERGERT SOUTH 35W-15-5N	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Project	Weld County		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Sec 35-T7N-R67W			
Site Position:		Northing:	1,436,808.91 usft	Latitude:	40° 31' 50.264 N
From:	Lat/Long	Easting:	3,180,387.20 usft	Longitude:	104° 51' 3.809 W
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.42 °

Well	HERGERT SOUTH 35W-15-5N					
Well Position	+N/-S	-378.88 usft	Northing:	1,436,425.28 usft	Latitude:	40° 31' 46.520 N
	+E/-W	-651.02 usft	Easting:	3,179,738.96 usft	Longitude:	104° 51' 12.240 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	4,883.00 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/17/2017	8.26	66.94	52,440.21387374

Design	PROPOSAL 1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	265.00

Plan Survey Tool Program			Date	8/28/2017	
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	14,793.63	PROPOSAL 1 (ORIGINAL WELL	MWD OWSG	
			OWSG MWD - Standard		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,382.00	11.64	132.39	1,378.00	-39.72	43.51	2.00	2.00	0.00	132.39	
5,844.77	11.64	132.39	5,749.00	-646.78	708.51	0.00	0.00	0.00	0.00	
6,426.77	0.00	0.00	6,327.00	-686.50	752.02	2.00	-2.00	0.00	180.00	
6,526.77	0.00	0.00	6,427.00	-686.50	752.02	0.00	0.00	0.00	0.00	
7,426.85	90.00	270.42	7,000.00	-682.34	179.02	10.00	10.00	-9.95	270.42	HS 35W-15-5N LP
14,793.92	90.00	270.42	7,000.00	-628.83	-7,187.86	0.00	0.00	0.00	0.00	HS 35W-15-5N PBHL

Planning Report

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Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 4908.00usft
Project:	Weld County	MD Reference:	KB 25' @ 4908.00usft
Site:	Sec 35-T7N-R67W	North Reference:	True
Well:	HERGERT SOUTH 35W-15-5N	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
BUILD 2°/100'									
900.00	2.00	132.39	899.98	-1.18	1.29	-1.18	2.00	2.00	0.00
1,000.00	4.00	132.39	999.84	-4.70	5.15	-4.72	2.00	2.00	0.00
1,100.00	6.00	132.39	1,099.45	-10.58	11.59	-10.62	2.00	2.00	0.00
1,200.00	8.00	132.39	1,198.70	-18.80	20.59	-18.87	2.00	2.00	0.00
1,300.00	10.00	132.39	1,297.47	-29.34	32.14	-29.46	2.00	2.00	0.00
1,382.00	11.64	132.39	1,378.00	-39.72	43.51	-39.88	2.00	2.00	0.00
HOLD 11.67° INC									
1,400.00	11.64	132.39	1,395.63	-42.17	46.19	-42.34	0.00	0.00	0.00
1,500.00	11.64	132.39	1,493.58	-55.77	61.10	-56.00	0.00	0.00	0.00
1,600.00	11.64	132.39	1,591.52	-69.37	76.00	-69.66	0.00	0.00	0.00
1,700.00	11.64	132.39	1,689.47	-82.98	90.90	-83.32	0.00	0.00	0.00
1,800.00	11.64	132.39	1,787.41	-96.58	105.80	-96.98	0.00	0.00	0.00
1,900.00	11.64	132.39	1,885.35	-110.18	120.70	-110.64	0.00	0.00	0.00
2,000.00	11.64	132.39	1,983.30	-123.79	135.60	-124.30	0.00	0.00	0.00
2,100.00	11.64	132.39	2,081.24	-137.39	150.50	-137.95	0.00	0.00	0.00
2,200.00	11.64	132.39	2,179.18	-150.99	165.40	-151.61	0.00	0.00	0.00
2,300.00	11.64	132.39	2,277.13	-164.59	180.30	-165.27	0.00	0.00	0.00
2,400.00	11.64	132.39	2,375.07	-178.20	195.20	-178.93	0.00	0.00	0.00
2,500.00	11.64	132.39	2,473.01	-191.80	210.10	-192.59	0.00	0.00	0.00
2,600.00	11.64	132.39	2,570.96	-205.40	225.01	-206.25	0.00	0.00	0.00
2,700.00	11.64	132.39	2,668.90	-219.00	239.91	-219.91	0.00	0.00	0.00
2,800.00	11.64	132.39	2,766.84	-232.61	254.81	-233.57	0.00	0.00	0.00
2,900.00	11.64	132.39	2,864.79	-246.21	269.71	-247.22	0.00	0.00	0.00
3,000.00	11.64	132.39	2,962.73	-259.81	284.61	-260.88	0.00	0.00	0.00
3,100.00	11.64	132.39	3,060.67	-273.42	299.51	-274.54	0.00	0.00	0.00
3,200.00	11.64	132.39	3,158.62	-287.02	314.41	-288.20	0.00	0.00	0.00
3,300.00	11.64	132.39	3,256.56	-300.62	329.31	-301.86	0.00	0.00	0.00
3,400.00	11.64	132.39	3,354.50	-314.22	344.21	-315.52	0.00	0.00	0.00
3,500.00	11.64	132.39	3,452.45	-327.83	359.11	-329.18	0.00	0.00	0.00
3,600.00	11.64	132.39	3,550.39	-341.43	374.02	-342.84	0.00	0.00	0.00
3,671.07	11.64	132.39	3,620.00	-351.10	384.61	-352.54	0.00	0.00	0.00
PARKMAN									
3,700.00	11.64	132.39	3,648.33	-355.03	388.92	-356.49	0.00	0.00	0.00
3,800.00	11.64	132.39	3,746.28	-368.63	403.82	-370.15	0.00	0.00	0.00
3,900.00	11.64	132.39	3,844.22	-382.24	418.72	-383.81	0.00	0.00	0.00
4,000.00	11.64	132.39	3,942.17	-395.84	433.62	-397.47	0.00	0.00	0.00
4,100.00	11.64	132.39	4,040.11	-409.44	448.52	-411.13	0.00	0.00	0.00
4,200.00	11.64	132.39	4,138.05	-423.05	463.42	-424.79	0.00	0.00	0.00
4,300.00	11.64	132.39	4,236.00	-436.65	478.32	-438.45	0.00	0.00	0.00
4,400.00	11.64	132.39	4,333.94	-450.25	493.22	-452.11	0.00	0.00	0.00
4,417.42	11.64	132.39	4,351.00	-452.62	495.82	-454.49	0.00	0.00	0.00
SUSSEX									
4,500.00	11.64	132.39	4,431.88	-463.85	508.12	-465.77	0.00	0.00	0.00

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Project:	Weld County	MD Reference:	KB 25' @ 4908.00usft
Site:	Sec 35-T7N-R67W	North Reference:	True
Well:	HERGERT SOUTH 35W-15-5N	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,600.00	11.64	132.39	4,529.83	-477.46	523.03	-479.42	0.00	0.00	0.00
4,700.00	11.64	132.39	4,627.77	-491.06	537.93	-493.08	0.00	0.00	0.00
4,800.00	11.64	132.39	4,725.71	-504.66	552.83	-506.74	0.00	0.00	0.00
4,816.63	11.64	132.39	4,742.00	-506.92	555.31	-509.01	0.00	0.00	0.00
SHANNON									
4,900.00	11.64	132.39	4,823.66	-518.26	567.73	-520.40	0.00	0.00	0.00
5,000.00	11.64	132.39	4,921.60	-531.87	582.63	-534.06	0.00	0.00	0.00
5,100.00	11.64	132.39	5,019.54	-545.47	597.53	-547.72	0.00	0.00	0.00
5,200.00	11.64	132.39	5,117.49	-559.07	612.43	-561.38	0.00	0.00	0.00
5,300.00	11.64	132.39	5,215.43	-572.68	627.33	-575.04	0.00	0.00	0.00
5,400.00	11.64	132.39	5,313.37	-586.28	642.23	-588.69	0.00	0.00	0.00
5,500.00	11.64	132.39	5,411.32	-599.88	657.13	-602.35	0.00	0.00	0.00
5,600.00	11.64	132.39	5,509.26	-613.48	672.04	-616.01	0.00	0.00	0.00
5,700.00	11.64	132.39	5,607.20	-627.09	686.94	-629.67	0.00	0.00	0.00
5,800.00	11.64	132.39	5,705.15	-640.69	701.84	-643.33	0.00	0.00	0.00
5,844.77	11.64	132.39	5,749.00	-646.78	708.51	-649.44	0.00	0.00	0.00
DROP 2°/100'									
5,900.00	10.54	132.39	5,803.20	-653.94	716.35	-656.63	2.00	-2.00	0.00
6,000.00	8.54	132.39	5,901.81	-665.11	728.59	-667.85	2.00	-2.00	0.00
6,100.00	6.54	132.39	6,000.94	-673.95	738.27	-676.73	2.00	-2.00	0.00
6,200.00	4.54	132.39	6,100.47	-680.45	745.39	-683.26	2.00	-2.00	0.00
6,300.00	2.54	132.39	6,200.27	-684.61	749.95	-687.43	2.00	-2.00	0.00
6,400.00	0.54	132.39	6,300.23	-686.42	751.93	-689.24	2.00	-2.00	0.00
6,426.77	0.00	0.00	6,327.00	-686.50	752.02	-689.33	2.00	-2.00	0.00
HOLD VERTICAL									
6,500.00	0.00	0.00	6,400.23	-686.50	752.02	-689.33	0.00	0.00	0.00
6,526.77	0.00	0.00	6,427.00	-686.50	752.02	-689.33	0.00	0.00	0.00
KOP, BUILD 10°/100'									
6,550.00	2.32	270.42	6,450.23	-686.50	751.55	-688.86	10.00	10.00	0.00
6,600.00	7.32	270.42	6,500.03	-686.47	747.35	-684.68	10.00	10.00	0.00
6,650.00	12.32	270.42	6,549.28	-686.40	738.82	-676.19	10.00	10.00	0.00
6,700.00	17.32	270.42	6,597.61	-686.31	726.03	-663.46	10.00	10.00	0.00
6,750.00	22.32	270.42	6,644.63	-686.19	709.08	-646.58	10.00	10.00	0.00
6,800.00	27.32	270.42	6,689.99	-686.04	688.10	-625.69	10.00	10.00	0.00
6,850.00	32.32	270.42	6,733.36	-685.86	663.25	-600.95	10.00	10.00	0.00
6,900.00	37.32	270.42	6,774.39	-685.65	634.71	-572.53	10.00	10.00	0.00
6,950.00	42.32	270.42	6,812.79	-685.42	602.70	-540.67	10.00	10.00	0.00
7,000.00	47.32	270.42	6,848.24	-685.16	567.47	-505.59	10.00	10.00	0.00
7,050.00	52.32	270.42	6,880.49	-684.88	529.28	-467.57	10.00	10.00	0.00
7,100.00	57.32	270.42	6,909.29	-684.59	488.42	-426.90	10.00	10.00	0.00
7,150.00	62.32	270.42	6,934.42	-684.27	445.22	-383.89	10.00	10.00	0.00
7,200.00	67.32	270.42	6,955.68	-683.94	399.98	-338.86	10.00	10.00	0.00
7,250.00	72.32	270.42	6,972.93	-683.60	353.07	-292.15	10.00	10.00	0.00
7,300.00	77.32	270.42	6,986.02	-683.25	304.83	-244.13	10.00	10.00	0.00
7,319.63	79.28	270.42	6,990.00	-683.11	285.62	-224.99	10.00	10.00	0.00
NIOBRARA									
7,350.00	82.32	270.42	6,994.86	-682.90	255.64	-195.15	10.00	10.00	0.00
7,400.00	87.32	270.42	6,999.37	-682.54	205.86	-145.59	10.00	10.00	0.00
7,426.85	90.00	270.42	7,000.00	-682.34	179.02	-118.87	10.00	10.00	0.00
LP @ 90° INC, 270.42° AZM HOLD									
7,500.00	90.00	270.42	7,000.00	-681.81	105.87	-46.05	0.00	0.00	0.00
7,600.00	90.00	270.42	7,000.00	-681.08	5.87	53.51	0.00	0.00	0.00
7,700.00	90.00	270.42	6,999.99	-680.36	-94.12	153.06	0.00	0.00	0.00

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well HERGERT SOUTH 35W-15-5N
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 4908.00usft
Project:	Weld County	MD Reference:	KB 25' @ 4908.00usft
Site:	Sec 35-T7N-R67W	North Reference:	True
Well:	HERGERT SOUTH 35W-15-5N	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
7,800.00	90.00	270.42	6,999.99	-679.63	-194.12	252.61	0.00	0.00	0.00	
7,900.00	90.00	270.42	6,999.99	-678.91	-294.12	352.17	0.00	0.00	0.00	
8,000.00	90.00	270.42	6,999.99	-678.18	-394.12	451.72	0.00	0.00	0.00	
8,100.00	90.00	270.42	6,999.99	-677.45	-494.11	551.27	0.00	0.00	0.00	
8,200.00	90.00	270.42	6,999.98	-676.73	-594.11	650.83	0.00	0.00	0.00	
8,300.00	90.00	270.42	6,999.98	-676.00	-694.11	750.38	0.00	0.00	0.00	
8,400.00	90.00	270.42	6,999.98	-675.28	-794.11	849.94	0.00	0.00	0.00	
8,500.00	90.00	270.42	6,999.98	-674.55	-894.10	949.49	0.00	0.00	0.00	
8,600.00	90.00	270.42	6,999.97	-673.82	-994.10	1,049.04	0.00	0.00	0.00	
8,700.00	90.00	270.42	6,999.97	-673.10	-1,094.10	1,148.60	0.00	0.00	0.00	
8,800.00	90.00	270.42	6,999.97	-672.37	-1,194.09	1,248.15	0.00	0.00	0.00	
8,900.00	90.00	270.42	6,999.97	-671.65	-1,294.09	1,347.70	0.00	0.00	0.00	
9,000.00	90.00	270.42	6,999.97	-670.92	-1,394.09	1,447.26	0.00	0.00	0.00	
9,100.00	90.00	270.42	6,999.96	-670.19	-1,494.09	1,546.81	0.00	0.00	0.00	
9,200.00	90.00	270.42	6,999.96	-669.47	-1,594.08	1,646.36	0.00	0.00	0.00	
9,300.00	90.00	270.42	6,999.96	-668.74	-1,694.08	1,745.92	0.00	0.00	0.00	
9,400.00	90.00	270.42	6,999.96	-668.02	-1,794.08	1,845.47	0.00	0.00	0.00	
9,500.00	90.00	270.42	6,999.96	-667.29	-1,894.08	1,945.03	0.00	0.00	0.00	
9,600.00	90.00	270.42	6,999.95	-666.56	-1,994.07	2,044.58	0.00	0.00	0.00	
9,700.00	90.00	270.42	6,999.95	-665.84	-2,094.07	2,144.13	0.00	0.00	0.00	
9,800.00	90.00	270.42	6,999.95	-665.11	-2,194.07	2,243.69	0.00	0.00	0.00	
9,900.00	90.00	270.42	6,999.95	-664.39	-2,294.07	2,343.24	0.00	0.00	0.00	
10,000.00	90.00	270.42	6,999.94	-663.66	-2,394.06	2,442.79	0.00	0.00	0.00	
10,100.00	90.00	270.42	6,999.94	-662.93	-2,494.06	2,542.35	0.00	0.00	0.00	
10,200.00	90.00	270.42	6,999.94	-662.21	-2,594.06	2,641.90	0.00	0.00	0.00	
10,300.00	90.00	270.42	6,999.94	-661.48	-2,694.06	2,741.45	0.00	0.00	0.00	
10,400.00	90.00	270.42	6,999.94	-660.76	-2,794.05	2,841.01	0.00	0.00	0.00	
10,500.00	90.00	270.42	6,999.93	-660.03	-2,894.05	2,940.56	0.00	0.00	0.00	
10,600.00	90.00	270.42	6,999.93	-659.31	-2,994.05	3,040.11	0.00	0.00	0.00	
10,700.00	90.00	270.42	6,999.93	-658.58	-3,094.04	3,139.67	0.00	0.00	0.00	
10,800.00	90.00	270.42	6,999.93	-657.85	-3,194.04	3,239.22	0.00	0.00	0.00	
10,900.00	90.00	270.42	6,999.93	-657.13	-3,294.04	3,338.78	0.00	0.00	0.00	
11,000.00	90.00	270.42	6,999.92	-656.40	-3,394.04	3,438.33	0.00	0.00	0.00	
11,100.00	90.00	270.42	6,999.92	-655.68	-3,494.03	3,537.88	0.00	0.00	0.00	
11,200.00	90.00	270.42	6,999.92	-654.95	-3,594.03	3,637.44	0.00	0.00	0.00	
11,300.00	90.00	270.42	6,999.92	-654.22	-3,694.03	3,736.99	0.00	0.00	0.00	
11,400.00	90.00	270.42	6,999.91	-653.50	-3,794.03	3,836.54	0.00	0.00	0.00	
11,500.00	90.00	270.42	6,999.91	-652.77	-3,894.02	3,936.10	0.00	0.00	0.00	
11,600.00	90.00	270.42	6,999.91	-652.05	-3,994.02	4,035.65	0.00	0.00	0.00	
11,700.00	90.00	270.42	6,999.91	-651.32	-4,094.02	4,135.20	0.00	0.00	0.00	
11,800.00	90.00	270.42	6,999.91	-650.59	-4,194.02	4,234.76	0.00	0.00	0.00	
11,900.00	90.00	270.42	6,999.90	-649.87	-4,294.01	4,334.31	0.00	0.00	0.00	
12,000.00	90.00	270.42	6,999.90	-649.14	-4,394.01	4,433.87	0.00	0.00	0.00	
12,100.00	90.00	270.42	6,999.90	-648.42	-4,494.01	4,533.42	0.00	0.00	0.00	
12,200.00	90.00	270.42	6,999.90	-647.69	-4,594.01	4,632.97	0.00	0.00	0.00	
12,300.00	90.00	270.42	6,999.90	-646.96	-4,694.00	4,732.53	0.00	0.00	0.00	
12,400.00	90.00	270.42	6,999.89	-646.24	-4,794.00	4,832.08	0.00	0.00	0.00	
12,500.00	90.00	270.42	6,999.89	-645.51	-4,894.00	4,931.63	0.00	0.00	0.00	
12,600.00	90.00	270.42	6,999.89	-644.79	-4,993.99	5,031.19	0.00	0.00	0.00	
12,700.00	90.00	270.42	6,999.89	-644.06	-5,093.99	5,130.74	0.00	0.00	0.00	
12,800.00	90.00	270.42	6,999.88	-643.33	-5,193.99	5,230.29	0.00	0.00	0.00	
12,900.00	90.00	270.42	6,999.88	-642.61	-5,293.99	5,329.85	0.00	0.00	0.00	
13,000.00	90.00	270.42	6,999.88	-641.88	-5,393.98	5,429.40	0.00	0.00	0.00	
13,100.00	90.00	270.42	6,999.88	-641.16	-5,493.98	5,528.96	0.00	0.00	0.00	

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well HERGERT SOUTH 35W-15-5N
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 4908.00usft
Project:	Weld County	MD Reference:	KB 25' @ 4908.00usft
Site:	Sec 35-T7N-R67W	North Reference:	True
Well:	HERGERT SOUTH 35W-15-5N	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
13,200.00	90.00	270.42	6,999.88	-640.43	-5,593.98	5,628.51	0.00	0.00	0.00	
13,300.00	90.00	270.42	6,999.87	-639.70	-5,693.98	5,728.06	0.00	0.00	0.00	
13,400.00	90.00	270.42	6,999.87	-638.98	-5,793.97	5,827.62	0.00	0.00	0.00	
13,500.00	90.00	270.42	6,999.87	-638.25	-5,893.97	5,927.17	0.00	0.00	0.00	
13,600.00	90.00	270.42	6,999.87	-637.53	-5,993.97	6,026.72	0.00	0.00	0.00	
13,700.00	90.00	270.42	6,999.87	-636.80	-6,093.97	6,126.28	0.00	0.00	0.00	
13,800.00	90.00	270.42	6,999.86	-636.07	-6,193.96	6,225.83	0.00	0.00	0.00	
13,900.00	90.00	270.42	6,999.86	-635.35	-6,293.96	6,325.38	0.00	0.00	0.00	
14,000.00	90.00	270.42	6,999.86	-634.62	-6,393.96	6,424.94	0.00	0.00	0.00	
14,100.00	90.00	270.42	6,999.86	-633.90	-6,493.96	6,524.49	0.00	0.00	0.00	
14,200.00	90.00	270.42	6,999.85	-633.17	-6,593.95	6,624.04	0.00	0.00	0.00	
14,300.00	90.00	270.42	6,999.85	-632.45	-6,693.95	6,723.60	0.00	0.00	0.00	
14,400.00	90.00	270.42	6,999.85	-631.72	-6,793.95	6,823.15	0.00	0.00	0.00	
14,500.00	90.00	270.42	6,999.85	-630.99	-6,893.94	6,922.71	0.00	0.00	0.00	
14,600.00	90.00	270.42	6,999.85	-630.27	-6,993.94	7,022.26	0.00	0.00	0.00	
14,700.00	90.00	270.42	6,999.84	-629.54	-7,093.94	7,121.81	0.00	0.00	0.00	
14,793.92	90.00	270.42	7,000.00	-628.83	-7,187.86	7,215.31	0.00	0.00	0.00	
TD at 14793.92' MD										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
HS 35W-15-5N PBHL	0.00	0.00	7,000.00	-628.83	-7,187.86	1,435,744.05	3,172,555.88	40° 31' 40.296 N	104° 52' 45.325 W	
- plan hits target center										
- Point										
HS 35W-15-5N LP	0.00	0.00	7,000.00	-682.34	179.02	1,435,744.26	3,179,922.96	40° 31' 39.778 N	104° 51' 9.922 W	
- plan hits target center										
- Point										

Formations							
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)		
3,671.07	3,620.00	PARKMAN					
4,417.42	4,351.00	SUSSEX					
4,816.63	4,742.00	SHANNON					
7,319.63	6,990.00	NIOBRARA					

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well HERGERT SOUTH 35W-15-5N
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 4908.00usft
Project:	Weld County	MD Reference:	KB 25' @ 4908.00usft
Site:	Sec 35-T7N-R67W	North Reference:	True
Well:	HERGERT SOUTH 35W-15-5N	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
800.00	800.00	0.00	0.00	BUILD 2°/100'
1,382.00	1,378.00	-39.72	43.51	HOLD 11.67° INC
5,844.77	5,749.00	-646.78	708.51	DROP 2°/100'
6,426.77	6,327.00	-686.50	752.02	HOLD VERTICAL
6,526.77	6,427.00	-686.50	752.02	KOP, BUILD 10°/100'
7,426.85	7,000.00	-682.34	179.02	LP @ 90° INC, 270.42° AZM HOLD
14,793.92	7,000.00	-628.83	-7,187.86	TD at 14793.92' MD