

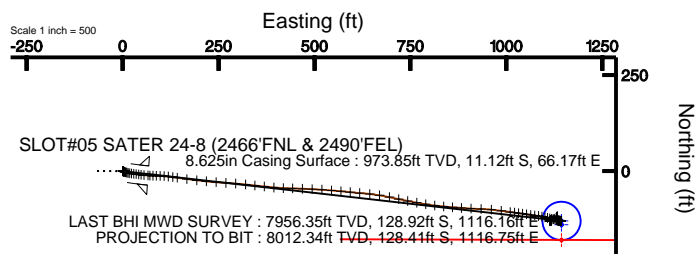
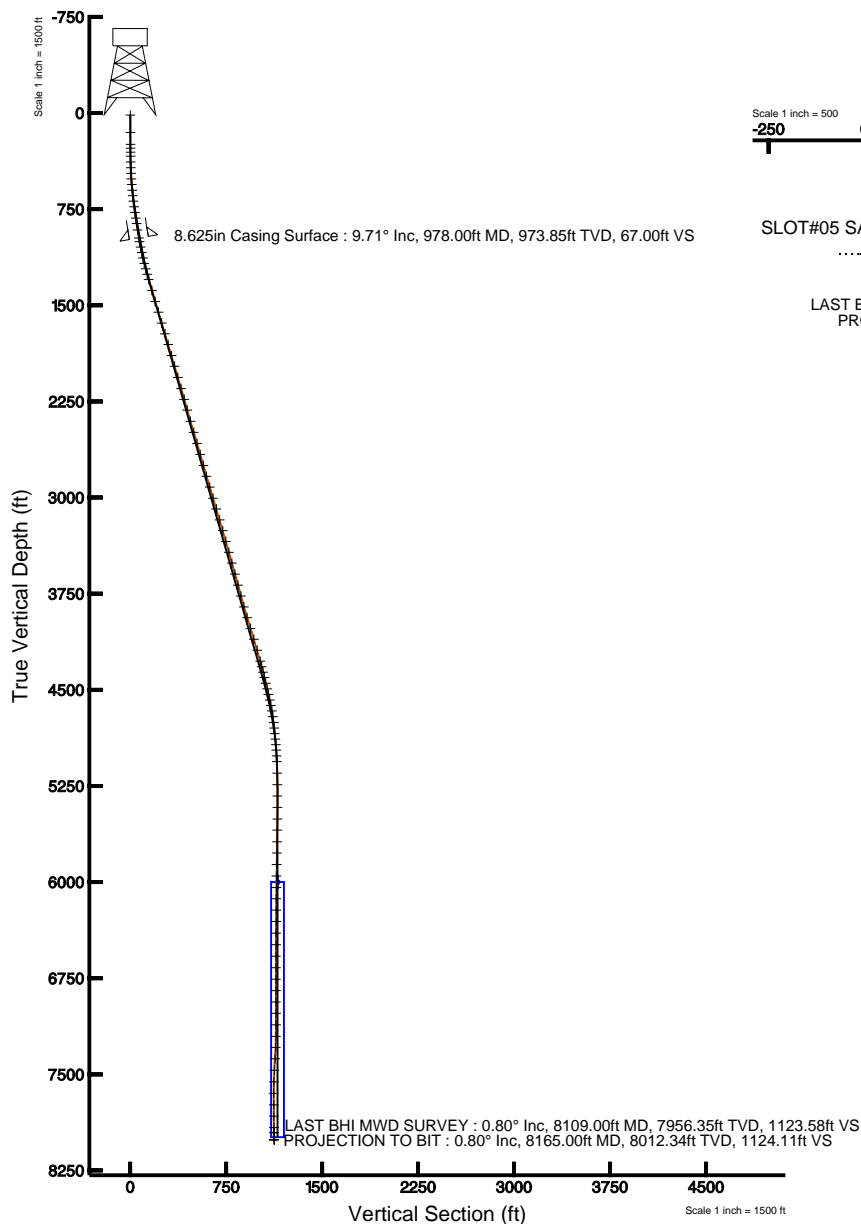


KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#05 SATER 24-8 (2466'FNL & 2490'FEL)
 Field: WELD COUNTY (KERR MCGEE) Well: SATER 24-8
 Facility: SEC.08-T2N-R67W Wellbore: SATER 24-8 PWB



Plot reference wellpath is SATER 24-8 (REV-B.0) PWP	Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet
True vertical depths are referenced to XTREME 15 (RKB)	North Reference: True north
Measured depths are referenced to XTREME 15 (RKB)	Scale: True distance
XTREME 15 (RKB) to Mean Sea Level: 4924 feet	Depths are in feet
Mean Sea Level to Mud line (Facility: SEC.08-T2N-R67W): 0 feet	Created by: cookdamm on 5/20/2011
Coordinates are in feet referenced to Slot	



BGGM (1945.0 to 2012.0) Dip: 66.85° Field: 53046.2 nT
 Magnetic North is 8.94 degrees East of True North (at 1/24/2011)

To correct azimuth from Magnetic to True add 8.94 degrees
 For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 8.94 = 98.94



Actual Wellpath Report

SATER 24-8 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 SATER 24-8 (2466'FNL & 2490'FEL)
Area	COLORADO	Well	SATER 24-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SATER 24-8 AWP
Facility	SEC.08-T2N-R67W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet	Software System	WellArchitect® 2.0
North Reference	True	User	Cookdanm
Scale	0.999958	Report Generated	5/20/2011 at 11:07:41 AM
Convergence at slot	0.38° East	Database/Source file	Denver Server/SATER_24-8_AWP.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	-0.36	64.01	3163947.17	1299303.01	40°09'12.575"N	104°54'48.496"W
Facility Reference Pt			3163883.16	1299302.95	40°09'12.578"N	104°54'49.320"W
Field Reference Pt			3197771.84	1268891.29	40°04'09.600"N	104°47'36.000"W

WELLPATH DATUM

Calculation method	Minimum curvature	XTREME 15 (RKB) to Facility Vertical Datum	4924.00ft
Horizontal Reference Pt	Slot	XTREME 15 (RKB) to Mean Sea Level	4924.00ft
Vertical Reference Pt	XTREME 15 (RKB)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	XTREME 15 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	96.46°



Actual Wellpath Report

SATER 24-8 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 SATER 24-8 (2466'FNL & 2490'FEL)
Area	COLORADO	Well	SATER 24-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SATER 24-8 AWP
Facility	SEC.08-T2N-R67W		

WELLPATH DATA (115 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	99.600	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	99.600	15.00	0.00	0.00	0.00	0.00	
151.00	0.400	99.600	151.00	0.47	-0.08	0.47	0.29	
244.00	0.300	90.500	244.00	1.04	-0.14	1.03	0.12	
274.00	0.300	110.900	274.00	1.19	-0.16	1.18	0.35	
305.00	0.400	117.600	305.00	1.37	-0.24	1.36	0.35	
336.00	0.800	115.100	335.99	1.68	-0.39	1.65	1.29	
381.00	1.200	119.000	380.99	2.41	-0.75	2.34	0.90	
426.00	2.300	114.100	425.97	3.71	-1.34	3.58	2.46	
470.00	3.100	112.300	469.92	5.69	-2.16	5.49	1.83	
513.00	4.000	106.300	512.83	8.29	-3.02	8.00	2.26	
557.00	4.200	103.900	556.72	11.40	-3.84	11.04	0.60	
602.00	4.800	103.500	601.58	14.90	-4.67	14.47	1.34	
645.00	5.700	98.200	644.40	18.82	-5.40	18.33	2.38	
688.00	7.000	98.200	687.14	23.58	-6.07	23.04	3.02	
732.00	8.300	97.200	730.74	29.43	-6.85	28.84	2.97	
777.00	8.400	96.800	775.27	35.97	-7.65	35.33	0.26	
821.00	8.400	98.200	818.80	42.39	-8.49	41.70	0.46	
864.00	8.500	97.200	861.33	48.71	-9.34	47.96	0.41	
915.00	9.300	95.800	911.71	56.60	-10.22	55.80	1.62	
1007.00	9.900	93.300	1002.43	71.93	-11.43	71.10	0.79	
1051.00	11.300	91.900	1045.67	80.00	-11.79	79.18	3.23	
1094.00	12.200	91.200	1087.77	88.73	-12.03	87.93	2.12	
1138.00	13.500	91.600	1130.67	98.48	-12.27	97.72	2.96	
1181.00	14.200	93.900	1172.42	108.75	-12.77	108.00	2.07	
1225.00	14.900	97.200	1215.01	119.79	-13.84	118.99	2.47	
1269.00	15.700	97.900	1257.45	131.40	-15.37	130.50	1.87	
1312.00	16.700	98.200	1298.74	143.39	-17.05	142.38	2.33	
1401.00	16.500	98.200	1384.03	168.81	-20.68	167.55	0.22	
1491.00	16.700	96.100	1470.28	194.51	-23.87	193.05	0.70	
1578.00	16.900	95.400	1553.57	219.66	-26.39	218.07	0.33	
1666.00	17.200	94.700	1637.70	245.45	-28.66	243.77	0.41	
1754.00	16.600	93.300	1721.90	271.01	-30.45	269.29	0.82	
1842.00	17.000	94.700	1806.14	296.42	-32.23	294.66	0.65	
1932.00	16.600	96.100	1892.30	322.42	-34.67	320.56	0.63	
2019.00	15.600	96.500	1975.89	346.55	-37.32	344.54	1.16	
2109.00	16.200	95.100	2062.45	371.20	-39.81	369.07	0.79	
2199.00	16.400	97.200	2148.83	396.46	-42.51	394.18	0.69	
2287.00	16.200	90.900	2233.30	421.10	-44.26	418.78	2.02	
2375.00	15.900	91.600	2317.87	445.33	-44.79	443.10	0.41	
2466.00	16.800	93.300	2405.19	470.88	-45.90	468.69	1.12	
2556.00	16.100	91.600	2491.51	496.30	-47.00	494.15	0.94	
2646.00	16.500	93.000	2577.89	521.49	-48.01	519.39	0.62	
2735.00	16.400	96.800	2663.25	546.67	-50.16	544.49	1.21	
2825.00	15.600	94.000	2749.76	571.47	-52.51	569.18	1.23	



Actual Wellpath Report

SATER 24-8 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 SATER 24-8 (2466'FNL & 2490'FEL)
Area	COLORADO	Well	SATER 24-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SATER 24-8 AWP
Facility	SEC.08-T2N-R67W		

WELLPATH DATA (115 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
2913.00	16.500	96.100	2834.33	595.79	-54.66	593.41	1.22	
3000.00	16.500	95.800	2917.75	620.50	-57.23	617.98	0.10	
3091.00	17.000	94.700	3004.89	646.72	-59.62	644.10	0.65	
3179.00	17.100	99.300	3089.02	672.50	-62.77	669.69	1.54	
3268.00	17.200	101.400	3174.07	698.68	-67.48	695.50	0.70	
3355.00	15.700	103.200	3257.50	723.18	-72.71	719.57	1.82	
3443.00	15.800	100.700	3342.20	746.96	-77.66	742.94	0.78	
3532.00	15.600	100.700	3427.88	770.97	-82.13	766.60	0.22	
3619.00	16.000	98.600	3511.59	794.62	-86.09	789.95	0.80	
3708.00	15.000	97.900	3597.36	818.39	-89.51	813.49	1.14	
3797.00	15.400	94.700	3683.24	841.72	-92.06	836.67	1.04	
3885.00	15.100	95.100	3768.15	864.86	-94.04	859.74	0.36	
3973.00	15.700	94.000	3852.99	888.21	-95.89	883.03	0.76	
4061.00	17.300	93.300	3937.36	913.17	-97.47	907.97	1.83	
4149.00	17.800	91.600	4021.26	939.64	-98.60	934.48	0.81	
4237.00	17.500	95.400	4105.12	966.27	-100.22	961.10	1.35	
4327.00	16.000	98.200	4191.30	992.20	-103.26	986.85	1.89	
4416.00	14.800	97.200	4277.11	1015.83	-106.44	1010.27	1.38	
4460.00	14.600	98.200	4319.67	1026.99	-107.93	1021.33	0.73	
4504.00	14.000	97.900	4362.30	1037.86	-109.45	1032.09	1.37	
4547.00	13.400	97.900	4404.08	1048.04	-110.85	1042.18	1.40	
4593.00	14.100	98.200	4448.76	1058.97	-112.39	1053.01	1.53	
4638.00	13.800	98.200	4492.43	1069.81	-113.93	1063.74	0.67	
4683.00	13.300	97.200	4536.18	1080.35	-115.35	1074.19	1.23	
4728.00	12.200	98.600	4580.07	1090.28	-116.71	1084.03	2.54	
4771.00	11.400	101.400	4622.16	1099.05	-118.23	1092.69	2.29	
4815.00	10.000	104.200	4665.40	1107.17	-120.02	1100.65	3.39	
4860.00	8.300	102.500	4709.82	1114.27	-121.69	1107.61	3.82	
4905.00	6.800	102.100	4754.43	1120.15	-122.95	1113.39	3.34	
4949.00	6.400	104.600	4798.14	1125.17	-124.11	1118.31	1.12	
4993.00	6.200	104.200	4841.87	1129.95	-125.31	1122.99	0.47	
5036.00	6.100	107.400	4884.63	1134.50	-126.57	1127.42	0.83	
5080.00	4.800	109.800	4928.43	1138.59	-127.89	1131.38	3.00	
5123.00	4.000	111.200	4971.30	1141.79	-129.04	1134.47	1.88	
5168.00	2.800	104.600	5016.22	1144.39	-129.88	1137.00	2.80	
5213.00	1.900	95.800	5061.18	1146.23	-130.24	1138.80	2.15	
5302.00	0.800	85.200	5150.16	1148.31	-130.33	1140.89	1.26	
5392.00	0.600	71.500	5240.15	1149.35	-130.13	1141.96	0.29	
5481.00	0.400	98.200	5329.15	1150.09	-130.03	1142.71	0.34	
5570.00	0.000	122.700	5418.14	1150.40	-130.07	1143.02	0.45	
5661.00	0.400	305.000	5509.14	1150.12	-129.89	1142.76	0.44	
5747.00	0.800	279.600	5595.14	1149.26	-129.62	1141.92	0.55	
5838.00	1.000	290.500	5686.13	1147.85	-129.23	1140.55	0.29	
5926.00	1.200	281.800	5774.11	1146.19	-128.78	1138.93	0.30	
6015.00	1.500	259.600	5863.09	1144.15	-128.80	1136.87	0.67	



Actual Wellpath Report

SATER 24-8 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 SATER 24-8 (2466'FNL & 2490'FEL)
Area	COLORADO	Well	SATER 24-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SATER 24-8 AWP
Facility	SEC.08-T2N-R67W		

WELLPATH DATA (115 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
6105.00	0.500	292.600	5953.07	1142.64	-128.86	1135.35	1.24	
6195.00	0.600	307.100	6043.07	1141.86	-128.42	1134.61	0.19	
6282.00	0.400	328.200	6130.07	1141.28	-127.89	1134.09	0.31	
6371.00	0.500	337.000	6219.06	1140.90	-127.27	1133.78	0.14	
6460.00	0.500	334.400	6308.06	1140.50	-126.56	1133.46	0.03	
6551.00	0.700	341.200	6399.05	1140.05	-125.68	1133.10	0.23	
6641.00	1.200	328.200	6489.04	1139.23	-124.36	1132.43	0.60	
6731.00	0.600	6.500	6579.03	1138.65	-123.09	1131.99	0.91	
6821.00	0.800	349.600	6669.02	1138.47	-122.00	1131.93	0.32	
6911.00	0.900	39.200	6759.02	1138.67	-120.83	1132.26	0.80	
6999.00	0.500	297.600	6847.01	1138.68	-120.12	1132.36	1.27	
7088.00	1.000	25.100	6936.01	1138.57	-119.24	1132.34	1.23	
7177.00	0.900	14.900	7024.99	1138.92	-117.86	1132.85	0.22	
7267.00	1.000	186.100	7114.99	1139.03	-117.96	1132.95	2.10	
7356.00	1.200	219.500	7203.97	1138.53	-119.45	1132.28	0.74	
7443.00	2.600	240.600	7290.93	1136.43	-121.12	1129.98	1.77	
7531.00	4.700	246.600	7378.74	1131.68	-123.53	1124.93	2.42	
7622.00	3.200	251.900	7469.52	1126.14	-125.80	1119.09	1.69	
7712.00	2.600	244.800	7559.41	1122.12	-127.45	1114.86	0.78	
7801.00	1.100	151.300	7648.37	1120.89	-129.06	1113.44	3.24	
7891.00	0.600	120.700	7738.36	1121.82	-130.06	1114.26	0.73	
7980.00	0.500	59.900	7827.36	1122.56	-130.10	1115.00	0.63	
8069.00	0.900	37.400	7916.35	1123.23	-129.35	1115.76	0.54	
8109.00	0.800	49.000	7956.35	1123.58	-128.92	1116.16	0.50	LAST BHI MWD SURVEY
8165.00	0.800	49.000	8012.34	1124.11	-128.41	1116.75	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS Ref Wellbore: SATER 24-8 AWP Ref Wellpath: SATER 24-8 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	15.00	978.00	963.00	15.00	973.85	0.00	0.00	-11.12	66.17
8.625in Casing Surface	15.00	978.00	963.00	15.00	973.85	0.00	0.00	-11.12	66.17
7.875in Open Hole	978.00	8165.00	7187.00	973.85	8012.34	-11.12	66.17	-128.41	1116.75



Actual Wellpath Report

SATER 24-8 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 SATER 24-8 (2466'FNL & 2490'FEL)
Area	COLORADO	Well	SATER 24-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SATER 24-8 AWB
Facility	SEC.08-T2N-R67W		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
SATER 7-8 BHL ON PLAT (2590'FNL & 1345'FEL, REV-1)		6000.00	-139.50	1143.86	3165091.88	1299171.08	40°09'11.196"N	104°54'33.764"W	point
SATER 7-8 GEO TARGET 50' RADIUS (2580'FNL & 1345'FEL, REV-2)		6000.00	-129.50	1143.86	3165091.82	1299181.08	40°09'11.295"N	104°54'33.764"W	circle
SATER 7-8 HARDLINE 50'S OF GEO TARGET		6000.00	-179.50	1143.86	3165092.15	1299131.09	40°09'10.801"N	104°54'33.764"W	point

WELLPATH COMPOSITION Ref Wellbore: SATER 24-8 AWB Ref Wellpath: SATER 24-8 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	915.00	NaviTrak (Standard)	BHI MWD SURVEYS 12.25 HOLE <151-915>	SATER 24-8 AWB
915.00	8109.00	NaviTrak (Standard)	BHI MWD SURVEYS 7.875 HOLE <1007-8109>	SATER 24-8 AWB
8109.00	8165.00	Blind Drilling (std)	Projection to bit	SATER 24-8 AWB



Actual Wellpath Report

SATER 24-8 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 SATER 24-8 (2466'FNL & 2490'FEL)
Area	COLORADO	Well	SATER 24-8
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SATER 24-8 AWB
Facility	SEC.08-T2N-R67W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8109.00	0.800	49.000	7956.35	LAST BHI MWD SURVEY
8165.00	0.800	49.000	8012.34	PROJECTION TO BIT