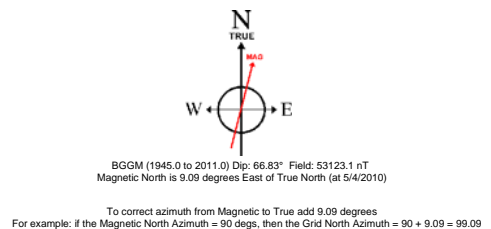
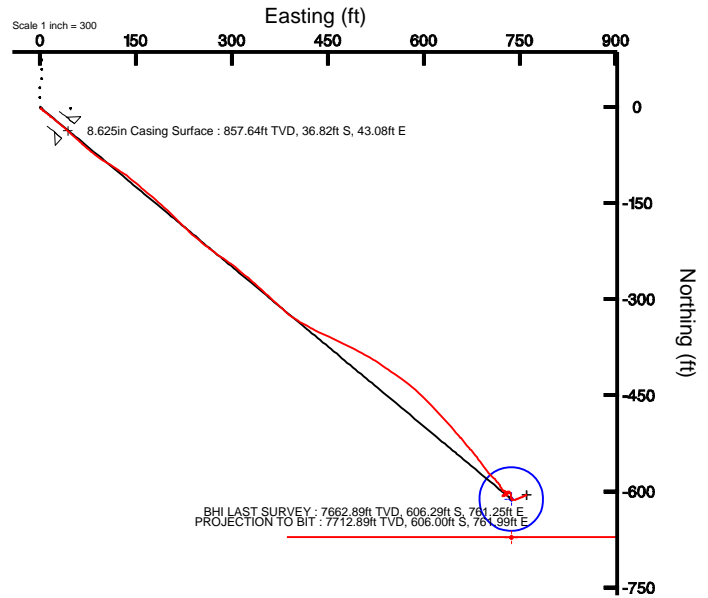
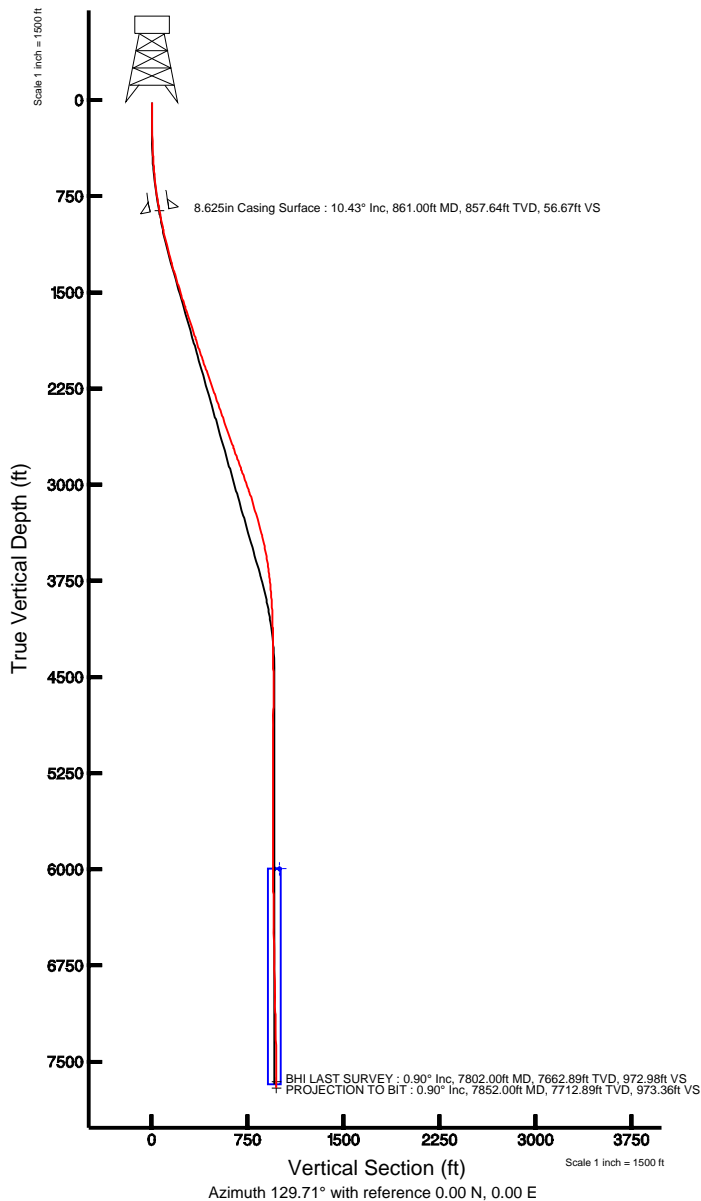


KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#16 RASMUSSEN 37-29 (667'FSL & 1963'FEL)
 Field: WELD COUNTY (KERR MCGEE) Well: RASMUSSEN 37-29
 Facility: SEC.29-T2N-R68W Wellbore: RASMUSSEN 37-29 PWB



Plot reference wellpath is RASMUSSEN 37-29 (REV-A.0) PWP	
True vertical depths are referenced to XTREME 12 (RT)	Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet
Measured depths are referenced to XTREME 12 (RT)	North Reference: True north
XTREME 12 (RT) to Mean Sea Level: 4950 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: SEC.29-T2N-R68W): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: wagnjam on 7/19/2010





Actual Wellpath Report

Rasmussen 37-29 AWB_awp

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#16 RASMUSSEN 37-29 (667'FSL & 1963'FEL)
Area	COLORADO	Well	RASMUSSEN 37-29
Field	WELD COUNTY (KERR MCGEE)	Wellbore	Rasmussen 37-29 AWB
Facility	SEC.29-T2N-R68W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet	Software System	WellArchitect® 2.0
North Reference	True	User	Wagnjam
Scale	0.99996	Report Generated	7/19/2010 at 4:56:32 PM
Convergence at slot	0.31° East	Database/Source file	WA_Denver/Rasmussen_37-29_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	-3913.75	1438.49	3132945.25	1281144.81	40°06'14.963"N	105°01'29.020"W
Facility Reference Pt			3131486.09	1285050.71	40°06'53.640"N	105°01'47.532"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 12 (RT) to Facility Vertical Datum	4950.00ft
Horizontal Reference Pt	Slot	XTREME 12 (RT) to Mean Sea Level	4950.00ft
Vertical Reference Pt	XTREME 12 (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	XTREME 12 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	129.71°



Actual Wellpath Report

Rasmussen 37-29 AWB_awp

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#16 RASMUSSEN 37-29 (667'FSL & 1963'FEL)
Area	COLORADO	Well	RASMUSSEN 37-29
Field	WELD COUNTY (KERR MCGEE)	Wellbore	Rasmussen 37-29 AWB
Facility	SEC.29-T2N-R68W		

WELLPATH DATA (76 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	190.500	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	190.500	15.00	0.00	0.00	0.00	0.00	
153.00	0.400	190.500	153.00	0.24	-0.47	-0.09	0.29	
246.00	0.800	138.900	245.99	1.03	-1.28	0.28	0.68	
339.00	1.600	133.900	338.97	2.97	-2.67	1.64	0.87	
432.00	2.900	126.900	431.90	6.61	-4.98	4.46	1.43	
525.00	4.600	129.000	524.70	12.69	-8.74	9.24	1.83	
613.00	5.900	129.700	612.33	20.75	-13.85	15.46	1.48	
703.00	7.800	129.000	701.68	31.48	-20.65	23.77	2.11	
816.00	9.800	130.100	813.34	48.76	-31.67	37.08	1.78	
923.00	11.300	132.200	918.53	68.35	-44.58	51.82	1.45	
1012.00	12.500	132.200	1005.62	86.68	-56.91	65.41	1.35	
1102.00	14.200	130.100	1093.18	107.45	-70.56	81.07	1.96	
1192.00	13.900	121.300	1180.50	129.19	-83.29	98.75	2.39	
1283.00	15.700	122.000	1268.48	152.20	-95.50	118.54	1.99	
1370.00	17.200	128.300	1351.92	176.73	-109.71	138.62	2.68	
1460.00	17.000	130.400	1437.94	203.19	-126.48	159.08	0.72	
1550.00	17.100	129.700	1523.99	229.58	-143.46	179.28	0.25	
1641.00	19.000	133.900	1610.51	257.73	-162.28	200.25	2.53	
1731.00	18.100	134.900	1695.83	286.27	-182.31	220.71	1.06	
1820.00	18.500	131.800	1780.33	314.15	-201.48	241.03	1.18	
1909.00	17.900	126.900	1864.89	341.92	-219.10	262.49	1.85	
2000.00	18.500	124.400	1951.33	370.26	-235.66	285.59	1.08	
2090.00	19.300	129.000	2036.49	399.36	-253.09	308.93	1.88	
2180.00	20.200	131.400	2121.19	429.76	-272.72	332.15	1.35	
2269.00	18.700	132.100	2205.11	459.38	-292.45	354.26	1.71	
2357.00	19.600	133.200	2288.24	488.20	-312.01	375.49	1.10	
2448.00	19.100	123.700	2374.12	518.25	-330.73	399.01	3.50	
2538.00	19.900	116.700	2458.97	547.83	-345.78	424.95	2.74	
2628.00	19.200	115.600	2543.78	577.10	-359.06	451.98	0.88	
2718.00	21.300	115.300	2628.21	607.29	-372.44	480.10	2.34	
2808.00	19.200	118.300	2712.65	637.64	-386.44	507.92	2.60	
2898.00	20.200	124.700	2797.39	667.63	-402.31	533.72	2.64	
2988.00	19.200	124.800	2882.12	697.85	-419.60	558.65	1.11	
3077.00	20.700	129.700	2965.78	728.17	-438.00	582.78	2.52	
3166.00	19.200	135.300	3049.45	758.46	-458.45	605.17	2.73	
3256.00	16.500	137.400	3135.11	785.86	-478.39	624.24	3.08	
3346.00	17.600	138.900	3221.15	811.96	-498.05	641.84	1.32	
3436.00	15.000	138.900	3307.53	836.90	-517.08	658.44	2.89	
3526.00	14.500	140.000	3394.56	859.48	-534.49	673.34	0.64	
3616.00	12.400	142.700	3482.09	879.98	-550.81	686.44	2.43	
3707.00	10.500	144.500	3571.27	897.52	-565.33	697.17	2.12	
3797.00	7.900	133.200	3660.12	911.63	-576.25	706.45	3.50	
3887.00	5.500	138.500	3749.50	922.06	-583.71	713.82	2.75	
3976.00	4.700	144.200	3838.14	929.81	-589.86	718.77	1.06	



Actual Wellpath Report

Rasmussen 37-29 AWB_awp

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#16 RASMUSSEN 37-29 (667'FSL & 1963'FEL)
Area	COLORADO	Well	RASMUSSEN 37-29
Field	WELD COUNTY (KERR MCGEE)	Wellbore	Rasmussen 37-29 AWB
Facility	SEC.29-T2N-R68W		

WELLPATH DATA (76 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4066.00	4.300	151.800	3927.87	936.51	-595.83	722.53	0.80	
4156.00	2.100	119.200	4017.73	941.25	-599.61	725.56	3.08	
4245.00	1.600	126.900	4106.68	944.10	-601.15	727.98	0.63	
4335.00	0.800	148.700	4196.66	945.95	-602.44	729.31	1.01	
4471.00	0.900	140.300	4332.65	947.90	-604.07	730.48	0.12	
4606.00	0.500	167.700	4467.64	949.40	-605.46	731.29	0.38	
4741.00	0.500	223.200	4602.63	949.83	-606.47	731.01	0.34	
4876.00	0.800	254.200	4737.62	949.26	-607.15	729.70	0.33	
5011.00	1.200	270.300	4872.60	947.63	-607.40	727.38	0.36	
5144.00	1.100	267.200	5005.58	945.62	-607.46	724.71	0.09	
5277.00	1.100	45.700	5138.57	944.81	-606.63	724.35	1.55	
5413.00	1.700	72.400	5274.53	946.04	-605.11	727.21	0.64	
5548.00	1.000	69.600	5409.49	947.70	-604.09	730.22	0.52	
5683.00	0.500	63.600	5544.48	948.53	-603.42	731.85	0.37	
5819.00	0.400	14.700	5680.47	948.57	-602.70	732.50	0.28	
5955.00	0.500	355.100	5816.47	947.95	-601.64	732.57	0.13	
6091.00	0.300	68.200	5952.47	947.71	-600.92	732.85	0.37	
6226.00	0.400	110.400	6087.46	948.32	-600.95	733.62	0.20	
6361.00	0.600	126.500	6222.46	949.47	-601.54	734.63	0.18	
6497.00	0.800	145.500	6358.45	951.09	-602.75	735.74	0.22	
6631.00	1.000	161.000	6492.43	952.99	-604.62	736.65	0.23	
6766.00	1.600	179.600	6627.40	955.21	-607.62	737.05	0.54	
6901.00	1.300	161.700	6762.35	957.73	-610.96	737.54	0.40	
7035.00	1.000	126.900	6896.33	960.18	-613.10	738.96	0.56	
7170.00	1.200	94.200	7031.30	962.51	-613.92	741.31	0.48	
7306.00	2.400	71.300	7167.24	965.16	-613.11	745.43	1.01	
7441.00	3.200	65.700	7302.07	968.30	-610.65	751.54	0.63	
7576.00	1.700	64.000	7436.95	970.77	-608.22	756.77	1.11	
7711.00	1.100	68.500	7571.91	972.22	-606.87	759.78	0.45	
7802.00	0.900	68.500	7662.89	972.98	-606.29	761.25	0.22	BHI LAST SURVEY
7852.00	0.900	68.500	7712.89	973.36	-606.00	761.99	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS Ref Wellbore: Rasmussen 37-29 AWB Ref Wellpath: Rasmussen 37-29 AWB_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	871.00	856.00	15.00	867.48	0.00	0.00	-38.02	44.46
8.625in Casing Surface	15.00	861.00	846.00	15.00	857.64	0.00	0.00	-36.82	43.08
7.875in Open Hole	861.00	7852.00	6991.00	857.64	7712.89	-36.82	43.08	-606.00	761.99



Actual Wellpath Report

Rasmussen 37-29 AWB_awp

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#16 RASMUSSEN 37-29 (667'FSL & 1963'FEL)
Area	COLORADO	Well	RASMUSSEN 37-29
Field	WELD COUNTY (KERR MCGEE)	Wellbore	Rasmussen 37-29 AWB
Facility	SEC.29-T2N-R68W		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
RASMUSSEN 37-29 GEO TARGET 50' RADIUS (60'FSL & 1225'FEL, REV-1)		6000.00	-612.55	737.69	3133686.18	1280536.25	40°06'08.910"N	105°01'19.527"W	circle
RASMUSSEN 37-29 HARDLINE 60'S OF GEO TARGET		6000.00	-672.55	737.69	3133686.50	1280476.25	40°06'08.317"N	105°01'19.526"W	point

WELLPATH COMPOSITION Ref Wellbore: Rasmussen 37-29 AWB Ref Wellpath: Rasmussen 37-29 AWB_awp

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	816.00	NaviTrak (Standard)	BHI MWD NAVI 12.25 HOLE <153-816>	Rasmussen 37-29 AWB
816.00	7802.00	NaviTrak (Standard)	BHI MWD NAVI 7.875 HOLE <923-7802>	Rasmussen 37-29 AWB
7802.00	7852.00	Blind Drilling (std)	Projection to bit	Rasmussen 37-29 AWB



Actual Wellpath Report

Rasmussen 37-29 AWB_awp

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#16 RASMUSSEN 37-29 (667'FSL & 1963'FEL)
Area	COLORADO	Well	RASMUSSEN 37-29
Field	WELD COUNTY (KERR MCGEE)	Wellbore	Rasmussen 37-29 AWB
Facility	SEC.29-T2N-R68W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
7802.00	0.900	68.500	7662.89	BHI LAST SURVEY
7852.00	0.900	68.500	7712.89	PROJECTION TO BIT