



Actual Wellpath Report

SCHOMBER 13N-22HZ OH AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 SCHOMBER 13N-22HZ(470'FNL & 470'FWL,SEC.22)
Area	COLORADO	Well	SCHOMBER 13N-22HZ OH
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SCHOMBER 13N-22HZ OH AWB
Facility	SEC.22-T2N-R66W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 3.0.2
North Reference	True	User	Wilsjef02
Scale	0.999959	Report Generated	5/10/2012 at 08:48:03
Convergence at slot	0.47° East	Database/Source file	WellArchitectDB/SCHOMBER_13N-22HZ_OH_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	3203800.98	1290898.68	40°07'46.600"N	104°46'16.122"W
Facility Reference Pt			3203800.98	1290898.68	40°07'46.600"N	104°46'16.122"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 20 (RKB) to Facility Vertical Datum	5023.00ft
Horizontal Reference Pt	Slot	XTREME 20 (RKB) to Mean Sea Level	5023.00ft
Vertical Reference Pt	XTREME 20 (RKB)	XTREME 20 (RKB) to Mud Line at Slot (SLOT#01 SCHOMBER 13N-22HZ(470'FNL & 470'FWL,SEC.22))	5023.00ft
MD Reference Pt	XTREME 20 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	175.52°



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WELLPATH DATA (105 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	262.950	0.00	0.00	0.00	0.00	40°07'46.600"N	104°46'16.122"W	0.00	
16.00	0.000	262.950	16.00	0.00	0.00	0.00	40°07'46.600"N	104°46'16.122"W	0.00	Tie-On
116.00	0.200	262.950	116.00	0.01	-0.02	-0.17	40°07'46.600"N	104°46'16.124"W	0.20	Begin GYRO Surveys
216.00	0.700	233.780	216.00	0.34	-0.40	-0.84	40°07'46.596"N	104°46'16.133"W	0.53	
316.00	0.770	254.080	315.99	0.79	-0.95	-1.98	40°07'46.591"N	104°46'16.147"W	0.27	
416.00	0.970	263.730	415.98	0.95	-1.23	-3.47	40°07'46.588"N	104°46'16.167"W	0.25	
516.00	1.420	254.740	515.95	1.21	-1.64	-5.50	40°07'46.584"N	104°46'16.193"W	0.49	
616.00	1.710	271.650	615.92	1.28	-1.93	-8.19	40°07'46.581"N	104°46'16.227"W	0.54	
716.00	2.020	274.660	715.87	0.84	-1.74	-11.44	40°07'46.583"N	104°46'16.269"W	0.33	
816.00	2.960	274.870	815.77	0.14	-1.38	-15.77	40°07'46.586"N	104°46'16.325"W	0.94	
881.00	3.200	285.880	880.68	-0.76	-0.74	-19.18	40°07'46.593"N	104°46'16.369"W	0.98	Tie-Into GYRO Surveys
977.00	3.200	288.620	976.53	-2.75	0.85	-24.30	40°07'46.608"N	104°46'16.435"W	0.16	Begin BHI MWD OH Surveys
1069.00	3.060	286.900	1068.39	-4.65	2.38	-29.08	40°07'46.624"N	104°46'16.496"W	0.18	
1160.00	2.770	290.600	1159.27	-6.47	3.86	-33.47	40°07'46.638"N	104°46'16.553"W	0.38	
1252.00	2.960	296.880	1251.16	-8.65	5.72	-37.66	40°07'46.657"N	104°46'16.607"W	0.40	
1344.00	2.820	292.980	1343.04	-10.93	7.68	-41.87	40°07'46.676"N	104°46'16.661"W	0.26	
1436.00	2.650	297.170	1434.94	-13.09	9.53	-45.84	40°07'46.694"N	104°46'16.712"W	0.29	
1524.00	1.600	332.600	1522.88	-15.29	11.55	-48.22	40°07'46.714"N	104°46'16.743"W	1.86	
1609.00	2.040	22.100	1607.84	-17.73	14.01	-48.20	40°07'46.738"N	104°46'16.742"W	1.85	
1694.00	2.530	37.950	1692.77	-20.47	16.89	-46.47	40°07'46.767"N	104°46'16.720"W	0.94	
1779.00	3.740	53.890	1777.64	-23.31	20.00	-43.08	40°07'46.798"N	104°46'16.677"W	1.74	
1865.00	5.040	44.570	1863.39	-27.25	24.34	-38.16	40°07'46.841"N	104°46'16.613"W	1.72	
1950.00	5.930	46.260	1948.00	-32.48	30.04	-32.37	40°07'46.897"N	104°46'16.539"W	1.06	
2035.00	6.860	47.240	2032.47	-38.40	36.52	-25.47	40°07'46.961"N	104°46'16.450"W	1.10	
2120.00	8.230	46.860	2116.73	-45.35	44.13	-17.30	40°07'47.036"N	104°46'16.345"W	1.61	
2205.00	9.670	49.750	2200.70	-53.32	52.90	-7.41	40°07'47.123"N	104°46'16.217"W	1.77	
2291.00	10.470	48.330	2285.37	-62.26	62.76	3.94	40°07'47.220"N	104°46'16.071"W	0.97	
2376.00	11.630	48.450	2368.79	-72.10	73.58	16.12	40°07'47.327"N	104°46'15.915"W	1.36	
2461.00	12.350	51.630	2451.94	-82.33	84.91	29.66	40°07'47.439"N	104°46'15.740"W	1.15	
2547.00	11.510	50.830	2536.08	-92.34	96.04	43.52	40°07'47.549"N	104°46'15.562"W	1.00	
2632.00	11.320	53.660	2619.40	-101.57	106.34	56.81	40°07'47.651"N	104°46'15.391"W	0.70	
2717.00	11.890	57.020	2702.66	-110.15	116.05	70.88	40°07'47.747"N	104°46'15.210"W	1.04	
2802.00	12.180	52.700	2785.80	-119.19	126.25	85.36	40°07'47.848"N	104°46'15.023"W	1.11	
2888.00	11.780	47.840	2869.93	-129.47	137.64	99.08	40°07'47.960"N	104°46'14.846"W	1.26	
2973.00	12.580	51.230	2953.01	-139.99	149.26	112.73	40°07'48.075"N	104°46'14.671"W	1.26	
3058.00	13.580	51.280	3035.81	-150.81	161.30	127.73	40°07'48.194"N	104°46'14.478"W	1.18	
3143.00	12.760	50.920	3118.57	-161.76	173.46	142.81	40°07'48.314"N	104°46'14.283"W	0.97	
3229.00	13.140	50.800	3202.38	-172.72	185.62	157.75	40°07'48.434"N	104°46'14.091"W	0.44	
3314.00	11.990	50.860	3285.35	-183.24	197.30	172.09	40°07'48.550"N	104°46'13.906"W	1.35	
3399.00	11.870	52.120	3368.51	-193.07	208.24	185.84	40°07'48.658"N	104°46'13.729"W	0.34	
3485.00	12.210	50.600	3452.62	-203.15	219.45	199.85	40°07'48.769"N	104°46'13.549"W	0.54	
3570.00	11.500	51.710	3535.81	-213.01	230.40	213.44	40°07'48.877"N	104°46'13.374"W	0.88	
3655.00	11.200	53.190	3619.14	-222.13	240.60	226.70	40°07'48.978"N	104°46'13.203"W	0.49	
3740.00	11.230	56.170	3702.52	-230.61	250.15	240.19	40°07'49.072"N	104°46'13.030"W	0.68	
3826.00	11.340	52.940	3786.86	-239.26	259.91	253.89	40°07'49.168"N	104°46'12.853"W	0.75	



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Area	COLORADO	Well	SCHOMBER 13N-22HZ OH
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SCHOMBER 13N-22HZ OH AWB
Facility	SEC.22-T2N-R66W		

WELLPATH DATA (105 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
3911.00	11.740	53.890	3870.14	-248.30	270.04	267.55	40°07'49.269"N	104°46'12.678"W	0.52	
3996.00	11.530	56.480	3953.39	-256.95	279.83	281.62	40°07'49.365"N	104°46'12.496"W	0.66	
4081.00	11.060	51.990	4036.75	-265.58	289.54	295.12	40°07'49.461"N	104°46'12.323"W	1.17	
4166.00	10.530	53.730	4120.25	-274.17	299.16	307.81	40°07'49.556"N	104°46'12.159"W	0.73	
4252.00	12.410	53.020	4204.52	-283.28	309.37	321.53	40°07'49.657"N	104°46'11.983"W	2.19	
4337.00	12.430	50.640	4287.54	-293.42	320.66	335.90	40°07'49.769"N	104°46'11.798"W	0.60	
4422.00	11.230	50.720	4370.73	-303.37	331.70	349.38	40°07'49.878"N	104°46'11.624"W	1.41	
4507.00	10.060	50.780	4454.26	-312.32	341.64	361.53	40°07'49.976"N	104°46'11.468"W	1.38	
4593.00	8.970	47.360	4539.08	-320.75	350.93	372.29	40°07'50.068"N	104°46'11.329"W	1.43	
4678.00	9.250	47.220	4623.01	-329.07	360.06	382.17	40°07'50.158"N	104°46'11.202"W	0.33	
4763.00	8.240	46.730	4707.02	-337.12	368.87	391.62	40°07'50.245"N	104°46'11.080"W	1.19	
4848.00	7.480	46.150	4791.22	-344.45	376.88	400.05	40°07'50.324"N	104°46'10.922"W	0.90	
4933.00	6.710	53.200	4875.57	-350.61	383.69	408.02	40°07'50.392"N	104°46'10.869"W	1.37	
5019.00	6.110	50.320	4961.03	-355.93	389.62	415.56	40°07'50.450"N	104°46'10.772"W	0.79	
5104.00	5.330	43.650	5045.61	-361.18	395.37	421.77	40°07'50.507"N	104°46'10.692"W	1.20	
5189.00	4.430	53.670	5130.30	-365.54	400.17	427.14	40°07'50.554"N	104°46'10.623"W	1.45	
5275.00	3.800	63.990	5216.08	-368.34	403.39	432.38	40°07'50.586"N	104°46'10.556"W	1.13	
5360.00	3.340	60.360	5300.92	-370.43	405.84	437.06	40°07'50.611"N	104°46'10.495"W	0.60	
5445.00	2.780	49.360	5385.79	-372.70	408.41	440.77	40°07'50.636"N	104°46'10.447"W	0.95	
5531.00	2.280	34.240	5471.71	-375.26	411.18	443.32	40°07'50.663"N	104°46'10.415"W	0.96	
5616.00	2.200	28.610	5556.65	-377.95	414.01	445.05	40°07'50.691"N	104°46'10.392"W	0.28	
5701.00	1.110	16.290	5641.61	-380.08	416.24	446.06	40°07'50.713"N	104°46'10.379"W	1.34	
5787.00	0.150	237.030	5727.61	-380.81	416.98	446.20	40°07'50.721"N	104°46'10.377"W	1.43	
5872.00	0.060	208.160	5812.61	-380.72	416.88	446.09	40°07'50.720"N	104°46'10.379"W	0.12	
5957.00	0.250	124.050	5897.61	-380.57	416.73	446.22	40°07'50.718"N	104°46'10.377"W	0.30	
6042.00	0.340	151.930	5982.60	-380.22	416.41	446.49	40°07'50.715"N	104°46'10.374"W	0.20	
6128.00	0.400	241.760	6068.60	-379.86	416.04	446.35	40°07'50.711"N	104°46'10.376"W	0.61	
6213.00	0.490	240.790	6153.60	-379.59	415.72	445.77	40°07'50.708"N	104°46'10.383"W	0.11	
6298.00	0.550	312.000	6238.60	-379.74	415.82	445.15	40°07'50.709"N	104°46'10.391"W	0.71	
6384.00	0.780	315.610	6324.59	-380.49	416.51	444.43	40°07'50.716"N	104°46'10.400"W	0.27	
6469.00	0.800	217.660	6409.59	-380.49	416.46	443.67	40°07'50.715"N	104°46'10.410"W	1.40	
6554.00	1.210	212.020	6494.57	-379.33	415.22	442.83	40°07'50.703"N	104°46'10.421"W	0.50	
6639.00	0.300	226.300	6579.57	-378.47	414.31	442.19	40°07'50.694"N	104°46'10.429"W	1.08	
6725.00	0.740	285.430	6665.56	-378.51	414.30	441.49	40°07'50.694"N	104°46'10.438"W	0.74	
6808.00	3.440	177.430	6748.51	-376.21	411.96	441.09	40°07'50.671"N	104°46'10.443"W	4.50	
6851.00	8.490	176.630	6791.27	-371.74	407.50	441.33	40°07'50.627"N	104°46'10.440"W	11.75	
6893.00	13.210	181.690	6832.50	-363.86	399.60	441.37	40°07'50.549"N	104°46'10.440"W	11.45	
6936.00	16.790	183.890	6874.03	-352.83	388.49	440.81	40°07'50.439"N	104°46'10.447"W	8.43	
6979.00	17.310	188.020	6915.14	-340.44	375.96	439.49	40°07'50.315"N	104°46'10.464"W	3.06	
7021.00	20.740	189.060	6954.84	-327.11	362.42	437.45	40°07'50.181"N	104°46'10.490"W	8.21	
7064.00	24.060	183.150	6994.60	-311.01	346.14	435.77	40°07'50.021"N	104°46'10.512"W	9.32	
7106.00	29.480	176.430	7032.09	-292.17	327.26	435.94	40°07'49.834"N	104°46'10.510"W	14.76	
7149.00	34.620	173.490	7068.53	-269.37	304.55	437.99	40°07'49.610"N	104°46'10.483"W	12.49	
7192.00	40.910	172.600	7102.50	-243.08	278.42	441.19	40°07'49.351"N	104°46'10.442"W	14.68	
7235.00	45.240	174.240	7133.91	-213.74	249.26	444.54	40°07'49.063"N	104°46'10.399"W	10.40	



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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7277.00	50.800	176.960	7161.99	-182.53	218.14	446.90	40°07'48.756"N	104°46'10.369"W	14.08	
7320.00	54.560	180.070	7188.06	-148.40	183.97	447.76	40°07'48.418"N	104°46'10.357"W	10.46	
7362.00	58.060	182.380	7211.36	-113.64	149.04	447.00	40°07'48.073"N	104°46'10.367"W	9.51	
7405.00	63.290	181.370	7232.41	-76.39	111.59	445.78	40°07'47.703"N	104°46'10.383"W	12.33	
7448.00	68.220	181.210	7250.06	-37.39	72.40	444.90	40°07'47.315"N	104°46'10.394"W	11.47	
7491.00	72.190	180.040	7264.62	2.90	31.95	444.46	40°07'46.916"N	104°46'10.400"W	9.58	
7531.00†	76.628	180.860	7275.37	41.27	-6.56	444.16	40°07'46.535"N	104°46'10.404"W	11.27	7" Casing Point
7533.00	76.850	180.900	7275.83	43.21	-8.51	444.13	40°07'46.516"N	104°46'10.404"W	11.27	
7576.00	78.000	181.010	7285.19	84.99	-50.47	443.43	40°07'46.101"N	104°46'10.413"W	2.69	
7619.00	80.960	180.290	7293.04	127.09	-92.74	442.95	40°07'45.683"N	104°46'10.419"W	7.08	
7661.00	81.340	180.140	7299.50	168.45	-134.24	442.80	40°07'45.273"N	104°46'10.421"W	0.97	
7704.00	84.230	179.560	7304.90	210.99	-176.90	442.91	40°07'44.852"N	104°46'10.420"W	6.85	
7747.00	86.050	179.190	7308.55	253.73	-219.74	443.38	40°07'44.429"N	104°46'10.414"W	4.32	
7774.00	88.180	179.290	7309.90	280.64	-246.70	443.73	40°07'44.162"N	104°46'10.409"W	7.90	Last BHI MWD OH Survey
7830.00	88.180	179.290	7311.68	336.49	-302.67	444.43	40°07'43.609"N	104°46'10.401"W	0.00	OH Projection to Bit

HOLE & CASING SECTIONS - Ref Wellbore: SCHOMBER 13N-22HZ OH AWB Ref Wellpath: SCHOMBER 13N-22HZ OH 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	16.00	920.00	904.00	16.00	919.62	0.00	0.00	-0.12	-21.27
9.625in Casing Surface	16.00	920.00	904.00	16.00	919.62	0.00	0.00	-0.12	-21.27
8.75in Open Hole	920.00	7830.00	6910.00	919.62	7311.68	-0.12	-21.27	-302.67	444.43



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Field	WELD COUNTY (KERR MCGEE)	Wellbore	SCHOMBER 13N-22HZ OH AWB
Facility	SEC.22-T2N-R66W		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.22-T2N-R66W SECTION LINES		-1.00	0.00	0.00	3203800.98	1290898.68	40°07'46.600"N	104°46'16.122"W	polygon
TARGET 01		6919.96	368.00	444.89	3204242.81	1291270.30	40°07'50.237"N	104°46'10.394"W	point
SCHOMBER 13N-22HZ BHL ON PLAT REV-1(460'FSL & 915'FWL,SEC.22)		7199.00	-4345.32	440.81	3204277.47	1286557.31	40°07'03.659"N	104°46'10.448"W	point
TARGET 12		7276.33	-3631.45	344.49	3204175.29	1287270.34	40°07'10.714"N	104°46'11.688"W	point
TARGET 11		7277.21	-3497.92	354.06	3204183.76	1287403.93	40°07'12.033"N	104°46'11.564"W	point
SCHOMBER 13N-22HZ BHL REV-2 (460'FSL & 815'FWL,SEC.22)		7278.00	-4345.32	340.81	3204177.48	1286556.49	40°07'03.659"N	104°46'11.735"W	point
TARGET 13		7278.14	-4346.33	334.58	3204171.25	1286555.43	40°07'03.649"N	104°46'11.815"W	point
TARGET 10		7287.07	-2873.63	435.26	3204259.82	1288028.84	40°07'18.202"N	104°46'10.519"W	point
TARGET 09		7287.16	-2867.82	435.98	3204260.49	1288034.66	40°07'18.260"N	104°46'10.510"W	point
TARGET 08		7288.07	-2799.45	440.05	3204264.00	1288103.06	40°07'18.936"N	104°46'10.457"W	point
TARGET 07		7297.92	-2003.02	439.76	3204257.17	1288899.42	40°07'26.806"N	104°46'10.461"W	point
TARGET 06		7297.99	-1997.61	439.77	3204257.13	1288904.83	40°07'26.859"N	104°46'10.461"W	point
TARGET 05		7298.18	-1986.51	439.81	3204257.08	1288915.93	40°07'26.969"N	104°46'10.460"W	point
TARGET 02		7316.04	-156.09	447.78	3204250.01	1290746.28	40°07'45.057"N	104°46'10.357"W	point
TARGET 04		7317.84	-1098.52	443.68	3204253.65	1289803.89	40°07'35.744"N	104°46'10.410"W	point
TARGET 03		7317.98	-1084.67	443.74	3204253.60	1289817.74	40°07'35.881"N	104°46'10.410"W	point
SEC.22-T2N-R66W HARDLINES		7999.00	0.00	0.00	3203800.98	1290898.68	40°07'46.600"N	104°46'16.122"W	polygon



Actual Wellpath Report

SCHOMBER 13N-22HZ OH AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 SCHOMBER 13N-22HZ(470'FNL & 470'FWL,SEC.22)
Area	COLORADO	Well	SCHOMBER 13N-22HZ OH
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SCHOMBER 13N-22HZ OH AWB
Facility	SEC.22-T2N-R66W		

WELLPATH COMPOSITION - Ref Wellbore: SCHOMBER 13N-22HZ OH AWB Ref Wellpath: SCHOMBER 13N-22HZ OH AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	881.00	Gyrodatta standard - Continuous gyro	GYRODATA SURVEYS <116-881>	SCHOMBER 13N-22HZ OH AWB
881.00	7774.00	NaviTrak (Standard)	BHI MWD SURVEYS 8 3/4" HOLE <977-7774>	SCHOMBER 13N-22HZ OH AWB
7774.00	7830.00	Blind Drilling (std)	Projection to bit	SCHOMBER 13N-22HZ OH AWB



Actual Wellpath Report

SCHOMBER 13N-22HZ OH AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 SCHOMBER 13N-22HZ(470'FNL & 470'FWL,SEC.22)
Area	COLORADO	Well	SCHOMBER 13N-22HZ OH
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SCHOMBER 13N-22HZ OH AWB
Facility	SEC.22-T2N-R66W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
16.00	0.000	262.950	16.00	Tie-On
116.00	0.200	262.950	116.00	Begin GYRO Surveys
881.00	3.200	285.880	880.68	Tie-Into GYRO Surveys
977.00	3.200	288.620	976.53	Begin BHI MWD OH Surveys
7531.00	76.628	180.860	7275.37	7" Casing Point
7774.00	88.180	179.290	7309.90	Last BHI MWD OH Survey
7830.00	88.180	179.290	7311.68	OH Projection to Bit



Actual Wellpath Report

SCHOMBER 13N-22HZ ST01 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 SCHOMBER 13N-22HZ(470'FNL & 470'FWL,SEC.22)
Area	COLORADO	Well	SCHOMBER 13N-22HZ ST01
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SCHOMBER 13N-22HZ ST01 AWB
Facility	SEC.22-T2N-R66W	Sidetrack from	SCHOMBER 13N-22HZ OH AWB at 7533.00 MD

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 3.0.2
North Reference	True	User	Wilsjef02
Scale	0.999959	Report Generated	5/10/2012 at 08:51:33
Convergence at slot	0.47° East	Database/Source file	WellArchitectDB/SCHOMBER_13N-22HZ_ST01_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	3203800.98	1290898.68	40°07'46.600"N	104°46'16.122"W
Facility Reference Pt			3203800.98	1290898.68	40°07'46.600"N	104°46'16.122"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 20 (RKB) to Facility Vertical Datum	5023.00ft
Horizontal Reference Pt	Slot	XTREME 20 (RKB) to Mean Sea Level	5023.00ft
Vertical Reference Pt	XTREME 20 (RKB)	XTREME 20 (RKB) to Mud Line at Slot (SLOT#01 SCHOMBER 13N-22HZ(470'FNL & 470'FWL,SEC.22))	5023.00ft
MD Reference Pt	XTREME 20 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	175.52°



Actual Wellpath Report

SCHOMBER 13N-22HZ ST01 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 SCHOMBER 13N-22HZ(470'FNL & 470'FWL,SEC.22)
Area	COLORADO	Well	SCHOMBER 13N-22HZ ST01
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SCHOMBER 13N-22HZ ST01 AWB
Facility	SEC.22-T2N-R66W	Sidetrack from	SCHOMBER 13N-22HZ OH AWB at 7533.00 MD

WELLPATH DATA (10 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7531.00†	76.628	180.860	7275.37	41.27	-6.56	444.16	40°07'46.535"N	104°46'10.404"W	11.27	7" Casing Point
7533.00	76.850	180.900	7275.83	43.21	-8.51	444.13	40°07'46.516"N	104°46'10.404"W	11.27	Tie-Into OH
7576.00	79.140	179.870	7284.77	85.12	-50.56	443.85	40°07'46.100"N	104°46'10.408"W	5.82	Begin BHI MWD ST01 Surveys
7619.00	81.280	179.170	7292.08	127.38	-92.93	444.20	40°07'45.682"N	104°46'10.403"W	5.23	
7661.00	81.670	180.020	7298.31	168.81	-134.47	444.50	40°07'45.271"N	104°46'10.400"W	2.21	
7726.00	81.580	179.530	7307.78	232.94	-198.78	444.75	40°07'44.636"N	104°46'10.396"W	0.76	
7785.00	82.840	179.210	7315.77	291.26	-257.23	445.39	40°07'44.058"N	104°46'10.388"W	2.20	
7830.00	86.790	179.500	7319.84	335.97	-302.03	445.90	40°07'43.615"N	104°46'10.382"W	8.80	
7906.00	87.590	179.440	7323.57	411.70	-377.93	446.60	40°07'42.865"N	104°46'10.373"W	1.06	Last BHI MWD ST01 Survey
7980.00	87.590	179.440	7326.68	485.46	-451.87	447.32	40°07'42.135"N	104°46'10.363"W	0.00	Projection to Bit

HOLE & CASING SECTIONS - Ref Wellbore: SCHOMBER 13N-22HZ ST01 AWB Ref Wellpath: SCHOMBER 13N-22HZ ST01 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	16.00	920.00	904.00	16.00	919.62	0.00	0.00	-0.12	-21.27
9.625in Casing Surface	16.00	920.00	904.00	16.00	919.62	0.00	0.00	-0.12	-21.27
8.75in Open Hole	920.00	7533.00	6613.00	919.62	7275.83	-0.12	-21.27	-8.51	444.13
7in Casing	16.00	7531.00	7515.00	16.00	7275.37	0.00	0.00	-6.56	444.16
6.125in Open Hole	7531.00	7980.00	449.00	7275.37	7326.68	-6.56	444.16	-451.87	447.32



Actual Wellpath Report

SCHOMBER 13N-22HZ ST01 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 SCHOMBER 13N-22HZ(470'FNL & 470'FWL,SEC.22)
Area	COLORADO	Well	SCHOMBER 13N-22HZ ST01
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SCHOMBER 13N-22HZ ST01 AWB
Facility	SEC.22-T2N-R66W	Sidetrack from	SCHOMBER 13N-22HZ OH AWB at 7533.00 MD

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.22-T2N-R66W SECTION LINES		-1.00	0.00	0.00	3203800.98	1290898.68	40°07'46.600"N	104°46'16.122"W	polygon
TARGET 01		6919.96	368.00	444.89	3204242.81	1291270.30	40°07'50.237"N	104°46'10.394"W	point
SCHOMBER 13N-22HZ BHL ON PLAT REV-1(460'FSL & 915'FWL,SEC.22)		7199.00	-4345.32	440.81	3204277.47	1286557.31	40°07'03.659"N	104°46'10.448"W	point
TARGET 12		7276.33	-3631.45	344.49	3204175.29	1287270.34	40°07'10.714"N	104°46'11.688"W	point
TARGET 11		7277.21	-3497.92	354.06	3204183.76	1287403.93	40°07'12.033"N	104°46'11.564"W	point
SCHOMBER 13N-22HZ BHL REV-2 (460'FSL & 815'FWL,SEC.22)		7278.00	-4345.32	340.81	3204177.48	1286556.49	40°07'03.659"N	104°46'11.735"W	point
TARGET 13		7278.14	-4346.33	334.58	3204171.25	1286555.43	40°07'03.649"N	104°46'11.815"W	point
TARGET 10		7287.07	-2873.63	435.26	3204259.82	1288028.84	40°07'18.202"N	104°46'10.519"W	point
TARGET 09		7287.16	-2867.82	435.98	3204260.49	1288034.66	40°07'18.260"N	104°46'10.510"W	point
TARGET 08		7288.07	-2799.45	440.05	3204264.00	1288103.06	40°07'18.936"N	104°46'10.457"W	point
TARGET 07		7297.92	-2003.02	439.76	3204257.17	1288899.42	40°07'26.806"N	104°46'10.461"W	point
TARGET 06		7297.99	-1997.61	439.77	3204257.13	1288904.83	40°07'26.859"N	104°46'10.461"W	point
TARGET 05		7298.18	-1986.51	439.81	3204257.08	1288915.93	40°07'26.969"N	104°46'10.460"W	point
TARGET 02		7316.04	-156.09	447.78	3204250.01	1290746.28	40°07'45.057"N	104°46'10.357"W	point
TARGET 04		7317.84	-1098.52	443.68	3204253.65	1289803.89	40°07'35.744"N	104°46'10.410"W	point
TARGET 03		7317.98	-1084.67	443.74	3204253.60	1289817.74	40°07'35.881"N	104°46'10.410"W	point
SEC.22-T2N-R66W HARDLINES		7999.00	0.00	0.00	3203800.98	1290898.68	40°07'46.600"N	104°46'16.122"W	polygon



Actual Wellpath Report

SCHOMBER 13N-22HZ ST01 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 SCHOMBER 13N-22HZ(470'FNL & 470'FWL,SEC.22)
Area	COLORADO	Well	SCHOMBER 13N-22HZ ST01
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SCHOMBER 13N-22HZ ST01 AWB
Facility	SEC.22-T2N-R66W	Sidetrack from	SCHOMBER 13N-22HZ OH AWB at 7533.00 MD

WELLPATH COMPOSITION - Ref Wellbore: SCHOMBER 13N-22HZ ST01 AWB Ref Wellpath: SCHOMBER 13N-22HZ ST01 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	881.00	Gyrodata standard - Continuous gyro	GYRODATA SURVEYS <116-881>	SCHOMBER 13N-22HZ OH AWB
881.00	7533.00	NaviTrak (Standard)	BHI MWD SURVEYS 8 3/4" HOLE <977-7774>	SCHOMBER 13N-22HZ OH AWB
7533.00	7906.00	NaviTrak (Standard)	BHI MWD SURVEYS 6 1/8" HOLE <7576-7906>	SCHOMBER 13N-22HZ ST01 AWB
7906.00	7980.00	Blind Drilling (std)	Projection to bit	SCHOMBER 13N-22HZ ST01 AWB



Actual Wellpath Report

SCHOMBER 13N-22HZ ST01 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 SCHOMBER 13N-22HZ(470'FNL & 470'FWL,SEC.22)
Area	COLORADO	Well	SCHOMBER 13N-22HZ ST01
Field	WELD COUNTY (KERR MCGEE)	Wellbore	SCHOMBER 13N-22HZ ST01 AWB
Facility	SEC.22-T2N-R66W	Sidetrack from	SCHOMBER 13N-22HZ OH AWB at 7533.00 MD

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
16.00	0.000	262.950	16.00	Tie-On
116.00	0.200	262.950	116.00	Begin GYRO Surveys
881.00	3.200	285.880	880.68	Tie-Into GYRO Surveys
977.00	3.200	288.620	976.53	Begin BHI MWD OH Surveys
7531.00	76.628	180.860	7275.37	7" Casing Point
7533.00	76.850	180.900	7275.83	Tie-Into OH
7576.00	79.140	179.870	7284.77	Begin BHI MWD ST01 Surveys
7906.00	87.590	179.440	7323.57	Last BHI MWD ST01 Survey
7980.00	87.590	179.440	7326.68	Projection to Bit