

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#14 REYNOLDS CATTLE 6C-19HZ (2041'FNL & 339'FEL, SEC.23)
Area	COLORADO	Well	REYNOLDS CATTLE 6C-19HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REYNOLDS CATTLE 6C-19HZ AWB
Facility	SEC.23-T3N-R68W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 4.0.0
North Reference	True	User	Robiale01
Scale	0.999957	Report Generated	23/Jul/2014 at 10:28
Convergence at slot	n/a	Database/Source file	WellArchitectDB/REYNOLDS_CATTLE_6C-19HZ_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-1796.95	2848.76	3150250.25	1321009.40	40°12'47.941"N	104°57'43.200"W
Facility Reference Pt			3147390.98	1322789.28	40°13'05.700"N	104°58'19.920"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 24 (16'RKB) (RKB) to Facility Vertical Datum	4972.00ft
Horizontal Reference Pt	Slot	XTREME 24 (16'RKB) (RKB) to Mean Sea Level	4972.00ft
Vertical Reference Pt	XTREME 24 (16'RKB) (RKB)	XTREME 24 (16'RKB) (RKB) to Mud Line at Slot (SLOT#14 REYNOLDS CATTLE 6C-19HZ (2041'FNL & 339'FEL, SEC.23))	4972.00ft
MD Reference Pt	XTREME 24 (16'RKB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	86.19°

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	319.190	0.00	0.00	0.00	0.00	40°12'47.941"N	104°57'43.200"W	0.00	
16.00	0.000	319.190	16.00	0.00	0.00	0.00	40°12'47.941"N	104°57'43.200"W	0.00	TIE-ON
116.00	0.180	319.190	116.00	-0.09	0.12	-0.10	40°12'47.942"N	104°57'43.201"W	0.18	BEGIN GYRO SURVEYS
216.00	0.420	33.950	216.00	0.04	0.54	0.00	40°12'47.946"N	104°57'43.200"W	0.41	
316.00	0.690	19.990	315.99	0.50	1.41	0.41	40°12'47.955"N	104°57'43.195"W	0.30	
416.00	0.590	353.760	415.99	0.72	2.49	0.56	40°12'47.966"N	104°57'43.193"W	0.31	
516.00	0.360	299.010	515.98	0.44	3.15	0.23	40°12'47.972"N	104°57'43.197"W	0.48	
616.00	0.100	346.180	615.98	0.16	3.39	-0.07	40°12'47.975"N	104°57'43.201"W	0.30	
716.00	0.470	20.780	715.98	0.31	3.86	0.06	40°12'47.979"N	104°57'43.199"W	0.39	
816.00	0.640	39.160	815.98	0.87	4.68	0.56	40°12'47.987"N	104°57'43.193"W	0.24	
916.00	0.660	16.710	915.97	1.45	5.66	1.07	40°12'47.997"N	104°57'43.186"W	0.25	
1016.00	0.660	21.430	1015.97	1.90	6.75	1.45	40°12'48.008"N	104°57'43.181"W	0.05	
1116.00	0.730	359.430	1115.96	2.18	7.92	1.65	40°12'48.019"N	104°57'43.179"W	0.27	
1216.00	0.770	343.930	1215.95	2.07	9.20	1.46	40°12'48.032"N	104°57'43.181"W	0.21	TIE-INTO GYRO SURVEYS
1434.00	0.430	359.610	1433.94	1.81	11.43	1.05	40°12'48.054"N	104°57'43.186"W	0.17	BEGIN BHI MWD+IFR SURVEYS
1497.00	0.340	199.580	1496.94	1.75	11.49	0.99	40°12'48.055"N	104°57'43.187"W	1.20	
1591.00	3.610	160.650	1590.87	2.43	8.43	1.87	40°12'48.024"N	104°57'43.176"W	3.57	
1685.00	4.130	157.620	1684.65	4.30	2.51	4.14	40°12'47.966"N	104°57'43.147"W	0.59	
1780.00	4.900	136.830	1779.37	7.96	-3.61	8.22	40°12'47.905"N	104°57'43.094"W	1.89	
1874.00	4.870	109.470	1873.04	14.18	-7.87	14.73	40°12'47.863"N	104°57'43.010"W	2.46	
1971.00	4.780	85.650	1969.70	22.00	-8.94	22.64	40°12'47.853"N	104°57'42.908"W	2.05	
2063.00	5.940	56.500	2061.32	29.97	-6.02	30.44	40°12'47.882"N	104°57'42.808"W	3.17	
2156.00	5.930	28.630	2153.84	36.73	0.86	36.75	40°12'47.949"N	104°57'42.726"W	3.07	
2249.00	6.380	22.020	2246.30	41.56	9.86	40.99	40°12'48.038"N	104°57'42.672"W	0.90	
2342.00	5.850	18.610	2338.77	45.62	19.15	44.44	40°12'48.130"N	104°57'42.627"W	0.69	
2435.00	7.490	16.820	2431.14	49.56	29.44	47.71	40°12'48.232"N	104°57'42.585"W	1.78	
2528.00	9.310	21.630	2523.14	54.93	42.24	52.24	40°12'48.358"N	104°57'42.527"W	2.10	
2621.00	11.520	20.780	2614.60	62.03	57.91	58.31	40°12'48.513"N	104°57'42.448"W	2.38	
2715.00	11.550	19.370	2706.70	69.64	75.57	64.76	40°12'48.688"N	104°57'42.365"W	0.30	
2808.00	11.000	18.700	2797.91	76.70	92.76	70.69	40°12'48.858"N	104°57'42.289"W	0.61	
2902.00	10.660	18.780	2890.23	83.47	109.48	76.36	40°12'49.023"N	104°57'42.216"W	0.36	
2994.00	10.060	18.650	2980.73	89.81	125.15	81.67	40°12'49.178"N	104°57'42.147"W	0.65	
3086.00	9.110	19.340	3071.45	95.74	139.64	86.65	40°12'49.321"N	104°57'42.083"W	1.04	
3178.00	8.870	11.190	3162.32	100.44	153.47	90.44	40°12'49.458"N	104°57'42.034"W	1.41	
3270.00	9.730	11.120	3253.11	104.28	168.05	93.32	40°12'49.602"N	104°57'41.997"W	0.93	
3362.00	10.050	18.300	3343.75	109.31	183.30	97.34	40°12'49.752"N	104°57'41.945"W	1.38	
3453.00	9.540	15.710	3433.42	114.82	198.10	101.87	40°12'49.899"N	104°57'41.887"W	0.74	
3545.00	10.140	15.950	3524.07	120.10	213.23	106.16	40°12'50.048"N	104°57'41.832"W	0.65	
3637.00	9.300	25.020	3614.75	126.42	227.75	111.53	40°12'50.192"N	104°57'41.762"W	1.90	
3729.00	9.920	32.510	3705.46	134.70	241.17	118.94	40°12'50.324"N	104°57'41.667"W	1.52	
3821.00	10.170	25.890	3796.06	143.42	255.16	126.74	40°12'50.462"N	104°57'41.566"W	1.28	
3913.00	11.150	22.960	3886.47	151.45	270.66	133.76	40°12'50.616"N	104°57'41.476"W	1.22	
4005.00	11.190	19.590	3976.73	159.01	287.26	140.22	40°12'50.780"N	104°57'41.393"W	0.71	
4097.00	11.000	14.130	4067.01	165.26	304.18	145.36	40°12'50.947"N	104°57'41.326"W	1.16	
4189.00	9.610	11.370	4157.52	169.97	320.22	149.02	40°12'51.105"N	104°57'41.279"W	1.60	

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4281.00	10.280	14.400	4248.14	174.55	335.71	152.57	40°12'51.258"N	104°57'41.233"W	0.92	
4373.00	9.920	11.620	4338.72	179.22	351.42	156.21	40°12'51.414"N	104°57'41.186"W	0.66	
4465.00	10.130	8.130	4429.31	183.00	367.19	158.95	40°12'51.570"N	104°57'41.151"W	0.70	
4557.00	10.000	18.830	4519.90	187.75	382.76	162.67	40°12'51.723"N	104°57'41.103"W	2.03	
4647.00	9.930	13.430	4608.55	193.06	397.71	167.00	40°12'51.871"N	104°57'41.047"W	1.04	
4738.00	10.660	8.810	4698.08	197.23	413.65	170.11	40°12'52.029"N	104°57'41.007"W	1.21	
4824.00	10.010	10.990	4782.69	200.87	428.85	172.75	40°12'52.179"N	104°57'40.973"W	0.88	
4909.00	11.080	14.970	4866.25	205.39	444.00	176.27	40°12'52.329"N	104°57'40.928"W	1.52	
4994.00	11.370	20.350	4949.63	211.45	459.74	181.29	40°12'52.484"N	104°57'40.863"W	1.28	
5079.00	11.010	20.540	5033.01	218.23	475.20	187.05	40°12'52.637"N	104°57'40.789"W	0.43	
5164.00	8.540	23.740	5116.77	224.49	488.58	192.44	40°12'52.769"N	104°57'40.719"W	2.97	
5249.00	6.900	25.940	5201.00	229.95	498.95	197.22	40°12'52.872"N	104°57'40.658"W	1.96	
5334.00	5.600	31.280	5285.49	234.86	507.08	201.61	40°12'52.952"N	104°57'40.601"W	1.67	
5420.00	3.610	33.200	5371.21	238.91	512.94	205.27	40°12'53.010"N	104°57'40.554"W	2.32	
5505.00	2.630	36.370	5456.08	241.78	516.75	207.89	40°12'53.047"N	104°57'40.520"W	1.17	
5590.00	0.850	43.880	5541.04	243.50	518.77	209.48	40°12'53.067"N	104°57'40.500"W	2.11	
5760.00	0.810	351.010	5711.03	244.32	520.87	210.17	40°12'53.088"N	104°57'40.491"W	0.44	
5930.00	0.590	351.790	5881.01	244.15	522.92	209.86	40°12'53.108"N	104°57'40.495"W	0.13	
6015.00	0.440	318.040	5966.01	243.91	523.60	209.58	40°12'53.115"N	104°57'40.499"W	0.39	
6270.00	0.380	324.000	6221.00	242.86	525.01	208.42	40°12'53.129"N	104°57'40.513"W	0.03	
6526.00	0.310	296.410	6477.00	241.81	526.00	207.30	40°12'53.139"N	104°57'40.528"W	0.07	
6696.00	0.170	243.260	6647.00	241.18	526.09	206.67	40°12'53.140"N	104°57'40.536"W	0.15	
6781.00	4.290	76.330	6731.92	244.20	526.79	209.65	40°12'53.147"N	104°57'40.498"W	5.24	
6866.00	18.570	81.730	6815.02	260.91	529.50	226.21	40°12'53.173"N	104°57'40.284"W	16.83	
6951.00	21.060	81.120	6894.98	289.62	533.81	254.70	40°12'53.216"N	104°57'39.917"W	2.94	
7037.00	23.720	85.930	6974.50	322.32	537.42	287.23	40°12'53.252"N	104°57'39.498"W	3.75	
7121.00	31.630	87.950	7048.83	361.29	539.41	326.16	40°12'53.271"N	104°57'38.996"W	9.48	
7206.00	41.970	82.340	7116.82	412.08	544.01	376.75	40°12'53.317"N	104°57'38.344"W	12.78	
7291.00	48.520	81.560	7176.64	472.24	552.48	436.48	40°12'53.401"N	104°57'37.574"W	7.73	
7376.00	56.090	84.650	7228.58	539.34	560.46	503.20	40°12'53.479"N	104°57'36.714"W	9.36	
7462.00	66.360	88.420	7269.93	614.60	564.88	578.33	40°12'53.523"N	104°57'35.745"W	12.54	
7546.00	76.160	89.930	7296.89	693.94	566.00	657.77	40°12'53.534"N	104°57'34.721"W	11.79	
7631.00	80.830	90.300	7313.84	777.01	565.83	741.04	40°12'53.532"N	104°57'33.648"W	5.51	
7691.00	88.090	90.810	7319.63	836.52	565.25	800.72	40°12'53.527"N	104°57'32.879"W	12.13	
7745.00†	88.579	90.382	7321.20	890.33	564.68	854.69	40°12'53.521"N	104°57'32.183"W	1.20	7" CASING POINT
7807.00	89.140	89.890	7322.43	952.17	564.54	916.68	40°12'53.520"N	104°57'31.384"W	1.20	
7869.00	89.080	89.800	7323.39	1014.04	564.71	978.67	40°12'53.521"N	104°57'30.585"W	0.17	
7962.00	88.370	89.980	7325.46	1106.82	564.88	1071.65	40°12'53.523"N	104°57'29.386"W	0.79	
8054.00	89.390	90.670	7327.26	1198.56	564.36	1163.62	40°12'53.518"N	104°57'28.201"W	1.34	
8145.00	89.720	90.820	7327.97	1289.27	563.18	1254.61	40°12'53.506"N	104°57'27.028"W	0.40	
8237.00	90.340	90.960	7327.92	1380.96	561.75	1346.60	40°12'53.492"N	104°57'25.842"W	0.69	
8329.00	90.770	90.900	7327.03	1472.64	560.26	1438.59	40°12'53.477"N	104°57'24.656"W	0.47	
8513.00	91.450	90.880	7323.46	1655.99	557.40	1622.53	40°12'53.449"N	104°57'22.285"W	0.37	
8605.00	90.680	90.740	7321.75	1747.67	556.10	1714.50	40°12'53.436"N	104°57'21.100"W	0.85	
8789.00	89.320	89.920	7321.75	1931.19	555.04	1898.49	40°12'53.425"N	104°57'18.728"W	0.86	

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8881.00	90.150	90.980	7322.18	2022.93	554.32	1990.49	40°12'53.418"N	104°57'17.542"W	1.46	
8973.00	89.820	90.300	7322.20	2114.65	553.29	2082.48	40°12'53.408"N	104°57'16.357"W	0.82	
9156.00	90.770	90.640	7321.26	2297.14	551.79	2265.47	40°12'53.393"N	104°57'13.998"W	0.55	
9340.00	91.140	90.260	7318.19	2480.60	550.34	2449.44	40°12'53.378"N	104°57'11.626"W	0.29	
9432.00	89.260	89.270	7317.87	2572.42	550.72	2541.43	40°12'53.382"N	104°57'10.441"W	2.31	
9524.00	89.480	90.260	7318.89	2664.23	551.10	2633.42	40°12'53.386"N	104°57'09.255"W	1.10	
9616.00	90.090	90.140	7319.23	2756.00	550.78	2725.42	40°12'53.382"N	104°57'08.069"W	0.68	
9701.00	90.180	90.080	7319.03	2840.80	550.61	2810.42	40°12'53.381"N	104°57'06.973"W	0.13	
9786.00	90.300	89.900	7318.67	2925.62	550.63	2895.42	40°12'53.381"N	104°57'05.878"W	0.25	
9872.00	90.640	89.680	7317.97	3011.44	550.94	2981.42	40°12'53.384"N	104°57'04.769"W	0.47	
9957.00	90.640	89.660	7317.02	3096.28	551.43	3066.41	40°12'53.388"N	104°57'03.674"W	0.02	
10042.00	90.180	90.520	7316.41	3181.08	551.30	3151.41	40°12'53.387"N	104°57'02.578"W	1.15	
10212.00	90.860	90.370	7314.87	3350.60	549.98	3321.39	40°12'53.374"N	104°57'00.387"W	0.41	
10297.00	90.830	90.000	7313.61	3435.39	549.70	3406.38	40°12'53.371"N	104°56'59.291"W	0.44	
10382.00	91.230	89.710	7312.09	3520.20	549.92	3491.37	40°12'53.373"N	104°56'58.196"W	0.58	
10467.00	89.660	89.490	7311.43	3605.04	550.51	3576.36	40°12'53.379"N	104°56'57.100"W	1.87	
10637.00	89.560	90.190	7312.58	3774.69	550.99	3746.36	40°12'53.383"N	104°56'54.909"W	0.42	
10807.00	90.550	90.010	7312.42	3944.30	550.69	3916.35	40°12'53.380"N	104°56'52.718"W	0.59	
10977.00	90.300	90.480	7311.16	4113.87	549.96	4086.35	40°12'53.372"N	104°56'50.526"W	0.31	
11062.00	90.370	90.000	7310.66	4198.65	549.61	4171.35	40°12'53.369"N	104°56'49.431"W	0.57	
11232.00	89.560	88.780	7310.77	4368.38	551.42	4341.33	40°12'53.386"N	104°56'47.240"W	0.86	
11403.00	88.820	89.640	7313.18	4539.12	553.78	4512.29	40°12'53.409"N	104°56'45.036"W	0.66	
11488.00	89.040	89.770	7314.77	4623.95	554.21	4597.28	40°12'53.413"N	104°56'43.941"W	0.30	
11573.00	88.460	90.840	7316.63	4708.71	553.76	4682.26	40°12'53.409"N	104°56'42.845"W	1.43	
11658.00	88.920	91.750	7318.57	4793.35	551.84	4767.21	40°12'53.390"N	104°56'41.750"W	1.20	
11743.00	90.120	91.320	7319.28	4877.97	549.56	4852.18	40°12'53.367"N	104°56'40.655"W	1.50	
11914.00	91.880	90.840	7316.30	5048.32	546.34	5023.11	40°12'53.335"N	104°56'38.451"W	1.07	
11999.00	91.330	91.900	7313.92	5132.94	544.31	5108.05	40°12'53.315"N	104°56'37.357"W	1.40	
12169.00	91.420	92.070	7309.84	5302.02	538.42	5277.90	40°12'53.256"N	104°56'35.167"W	0.11	
12254.00	90.370	92.130	7308.51	5386.55	535.31	5362.83	40°12'53.225"N	104°56'34.072"W	1.24	
12424.00	90.430	92.970	7307.32	5555.50	527.75	5532.66	40°12'53.150"N	104°56'31.883"W	0.50	
12594.00	90.560	92.520	7305.85	5724.38	519.60	5702.46	40°12'53.069"N	104°56'29.695"W	0.28	
12764.00	89.780	91.260	7305.35	5893.54	514.00	5872.36	40°12'53.013"N	104°56'27.505"W	0.87	
12934.00	90.710	90.650	7304.62	6062.95	511.16	6042.33	40°12'52.985"N	104°56'25.314"W	0.65	
13105.00	90.250	89.490	7303.19	6233.54	510.96	6213.32	40°12'52.983"N	104°56'23.110"W	0.73	
13275.00	89.630	88.610	7303.37	6403.33	513.77	6383.30	40°12'53.010"N	104°56'20.919"W	0.63	
13360.00	90.330	89.020	7303.40	6488.24	515.53	6468.28	40°12'53.027"N	104°56'19.823"W	0.95	
13445.00	91.470	89.300	7302.06	6573.11	516.78	6553.26	40°12'53.039"N	104°56'18.728"W	1.38	
13616.00	93.320	89.150	7294.92	6743.72	519.09	6724.08	40°12'53.062"N	104°56'16.526"W	1.09	
13701.00	92.870	89.730	7290.33	6828.46	519.92	6808.95	40°12'53.070"N	104°56'15.432"W	0.86	
13786.00	90.400	90.010	7287.90	6913.24	520.11	6893.91	40°12'53.071"N	104°56'14.337"W	2.92	
13871.00	89.500	90.650	7287.98	6998.02	519.62	6978.91	40°12'53.066"N	104°56'13.241"W	1.30	
13957.00	90.000	91.300	7288.35	7083.71	518.16	7064.90	40°12'53.051"N	104°56'12.133"W	0.95	
14041.00	87.160	91.060	7290.43	7167.36	516.43	7148.84	40°12'53.034"N	104°56'11.051"W	3.39	
14127.00	87.070	90.410	7294.76	7252.98	515.33	7234.73	40°12'53.023"N	104°56'09.944"W	0.76	

Actual Wellpath Report

REYNOLDS CATTLE 6C-19HZ AWP

Page 5 of 7

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#14 REYNOLDS CATTLE 6C-19HZ (2041'FNL & 339'FEL, SEC.23)
Area	COLORADO	Well	REYNOLDS CATTLE 6C-19HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REYNOLDS CATTLE 6C-19HZ AWB
Facility	SEC.23-T3N-R68W		

WELLPATH DATA (141 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
14212.00	89.200	90.530	7297.53	7337.69	514.63	7319.68	40°12'53.016"N	104°56'08.849"W	2.51	
14297.00	90.030	90.330	7298.10	7422.46	513.99	7404.67	40°12'53.009"N	104°56'07.753"W	1.00	
14382.00	90.950	90.310	7297.37	7507.23	513.52	7489.66	40°12'53.004"N	104°56'06.657"W	1.08	
14467.00	91.850	89.980	7295.30	7592.01	513.30	7574.64	40°12'53.002"N	104°56'05.562"W	1.13	
14526.00	92.440	90.340	7293.09	7650.82	513.14	7633.60	40°12'53.000"N	104°56'04.802"W	1.17	LAST BHI MWD+IFR SURVEY
14590.00	92.440	90.340	7290.36	7714.60	512.76	7697.54	40°12'52.996"N	104°56'03.978"W	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS - Ref Wellbore: REYNOLDS CATTLE 6C-19HZ AWB Ref Wellpath: REYNOLDS CATTLE 6C-19HZ 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	16.00	1359.00	1343.00	16.00	1358.94	0.00	0.00	10.80	1.10
9.625in Casing Surface	16.00	1349.00	1333.00	16.00	1348.94	0.00	0.00	10.70	1.12
8.75in Open Hole	1359.00	7755.00	6396.00	1358.94	7321.44	10.80	1.10	564.63	864.69
7in Casing Intermediate	16.00	7745.00	7729.00	16.00	7321.20	0.00	0.00	564.68	854.69
6.125in Open Hole	7755.00	14590.00	6835.00	7321.44	7290.36	564.63	864.69	512.76	7697.54

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#14 REYNOLDS CATTLE 6C-19HZ (2041'FNL & 339'FEL, SEC.23)
Area	COLORADO	Well	REYNOLDS CATTLE 6C-19HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REYNOLDS CATTLE 6C-19HZ AWB
Facility	SEC.23-T3N-R68W		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.19-T3N-R67W SECTION LINES		24.00	1480.54	171.75	3150413.01	1322490.88	40°13'02.572"N	104°57'40.986"W	polygon
SEC.23-T3N-R68W SECTION LINES		24.00	1480.54	171.75	3150413.01	1322490.88	40°13'02.572"N	104°57'40.986"W	polygon
SEC.24-T3N-R68W SECTION LINES		24.00	1480.54	171.75	3150413.01	1322490.88	40°13'02.572"N	104°57'40.986"W	polygon
REYNOLDS CATTLE 6C-19HZ BHL ON PLAT REV-2 (1675'FNL & 2071'FWL, SEC.19)		7292.00	362.97	7723.37	3157970.93	1321419.20	40°12'51.516"N	104°56'03.646"W	point
REYNOLDS CATTLE 6C-19HZ BHL REV-3 (1525'FNL & 2071'FWL, SEC.19)		7292.00	512.97	7723.37	3157970.02	1321569.19	40°12'52.998"N	104°56'03.645"W	point
REYNOLDS CATTLE 6C-19HZ BHL ON PLAT REV-1 (1675'FNL & 2071'FWL, SEC.19)		7297.00	362.97	7723.37	3157970.93	1321419.20	40°12'51.516"N	104°56'03.646"W	point
REYNOLDS CATTLE 6C-19HZ LANDBOX		7297.00	0.00	0.00	3150250.25	1321009.40	40°12'47.941"N	104°57'43.200"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: REYNOLDS CATTLE 6C-19HZ AWB Ref Wellpath: REYNOLDS CATTLE 6C-19HZ AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	1216.00	Generic gyro - continuous (Standard)	MS ENERGY GYRODATA SURVEYS <116-1216>	REYNOLDS CATTLE 6C-19HZ AWB
1216.00	7691.00	NaviTrak (IFR)	BHI NAVITRAK MWD+IFR 8 3/4" HOLE <1434-7691>	REYNOLDS CATTLE 6C-19HZ AWB
7691.00	14526.00	NaviTrak (IFR)	BHI NAVITRAK MWD+IFR 6 1/8" HOLE <7807-14526>	REYNOLDS CATTLE 6C-19HZ AWB
14526.00	14590.00	Blind Drilling (std)	Projection to bit	REYNOLDS CATTLE 6C-19HZ AWB

Actual Wellpath Report

REYNOLDS CATTLE 6C-19HZ AWP

Page 7 of 7

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#14 REYNOLDS CATTLE 6C-19HZ (2041'FNL & 339'FEL, SEC.23)
Area	COLORADO	Well	REYNOLDS CATTLE 6C-19HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	REYNOLDS CATTLE 6C-19HZ AWB
Facility	SEC.23-T3N-R68W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
16.00	0.000	319.190	16.00	TIE-ON
116.00	0.180	319.190	116.00	BEGIN GYRO SURVEYS
1216.00	0.770	343.930	1215.95	TIE-INTO GYRO SURVEYS
1434.00	0.430	359.610	1433.94	BEGIN BHI MWD+IFR SURVEYS
7745.00	88.579	90.382	7321.20	7" CASING POINT
14526.00	92.440	90.340	7293.09	LAST BHI MWD+IFR SURVEY
14590.00	92.440	90.340	7290.36	PROJECTION TO BIT