



Planned Wellpath Report

HENRICKSON FEDERAL 13N-18HZ (REV-E.0) PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#26 HENRICKSON FEDERAL 13N-18HZ (1706' FSL & 814' FWL, SEC.07)
Area	COLORADO	Well	HENRICKSON FEDERAL 13N-18HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	HENRICKSON FEDERAL 13N-18HZ PWB
Facility	SEC.07-T3N-R66W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 4.0.0
North Reference	True	User	Precain
Scale	0.999957	Report Generated	08/Oct/2013 at 16:10
Convergence at slot	n/a	Database/Source file	WellArchitectDB/HENRICKSON_FEDERAL_13N-18HZ_PWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-1758.75	-2413.33	3187895.22	1329683.45	40°14'11.119"N	104°49'37.106"W
Facility Reference Pt			3190294.85	1331460.62	40°14'28.500"N	104°49'05.988"W
Field Reference Pt			3197771.84	1268891.29	40°04'09.600"N	104°47'36.000"W

WELLPATH DATUM			
Calculation method	Minimum curvature	ENSIGN 145 (4806': 4793'GL+13'KB) (RKB) to Facility Vertical Datum	4806.00ft
Horizontal Reference Pt	Slot	ENSIGN 145 (4806': 4793'GL+13'KB) (RKB) to Mean Sea Level	4806.00ft
Vertical Reference Pt	ENSIGN 145 (4806': 4793'GL+13'KB) (RKB)	ENSIGN 145 (4806': 4793'GL+13'KB) (RKB) to Mud Line at Slot (SLOT#26 HENRICKSON FEDERAL 13N-18HZ (1706' FSL & 814' FWL, SEC.07))	4806.00ft
MD Reference Pt	ENSIGN 145 (4806': 4793'GL+13'KB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	179.96°



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Field	WELD COUNTY (KERR MCGEE)	Wellbore	HENRICKSON FEDERAL 13N-18HZ PWB
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WELLPATH DATA (150 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	60.850	0.00	0.00	0.00	0.00	40°14'11.119"N	104°49'37.106"W	0.00	
13.00	0.000	60.850	13.00	0.00	0.00	0.00	40°14'11.119"N	104°49'37.106"W	0.00	
113.00	0.170	60.850	113.00	-0.07	0.07	0.13	40°14'11.120"N	104°49'37.104"W	0.17	
213.00	0.140	118.540	213.00	-0.09	0.09	0.37	40°14'11.120"N	104°49'37.101"W	0.15	
313.00	0.110	225.480	313.00	0.04	-0.04	0.41	40°14'11.119"N	104°49'37.101"W	0.20	
413.00	0.230	233.950	413.00	0.23	-0.22	0.17	40°14'11.117"N	104°49'37.104"W	0.12	
512.00†	0.060	156.086	512.00	0.39	-0.39	0.03	40°14'11.115"N	104°49'37.106"W	0.23	Fox Hills Base
513.00	0.060	153.920	513.00	0.39	-0.39	0.04	40°14'11.115"N	104°49'37.106"W	0.23	
613.00	0.100	223.580	613.00	0.50	-0.50	0.00	40°14'11.114"N	104°49'37.106"W	0.10	
713.00	0.380	163.580	713.00	0.88	-0.88	0.03	40°14'11.110"N	104°49'37.106"W	0.34	
813.00	0.450	202.960	813.00	1.56	-1.56	-0.03	40°14'11.104"N	104°49'37.106"W	0.29	
913.00	0.370	180.120	912.99	2.25	-2.25	-0.18	40°14'11.097"N	104°49'37.108"W	0.18	
952.00	0.330	198.740	951.99	2.48	-2.48	-0.22	40°14'11.095"N	104°49'37.109"W	0.31	TIE-INTO GYRO SURVEYS
1052.00†	0.330	198.740	1051.99	3.02	-3.02	-0.40	40°14'11.089"N	104°49'37.111"W	0.00	
1152.00†	0.330	198.740	1151.99	3.57	-3.57	-0.59	40°14'11.084"N	104°49'37.114"W	0.00	
1252.00†	0.330	198.740	1251.99	4.11	-4.11	-0.77	40°14'11.078"N	104°49'37.116"W	0.00	
1352.00†	0.330	198.740	1351.99	4.66	-4.66	-0.96	40°14'11.073"N	104°49'37.118"W	0.00	
1452.00†	0.330	198.740	1451.98	5.20	-5.21	-1.14	40°14'11.068"N	104°49'37.121"W	0.00	
1552.00†	0.330	198.740	1551.98	5.75	-5.75	-1.33	40°14'11.062"N	104°49'37.123"W	0.00	
1652.00†	0.330	198.740	1651.98	6.29	-6.30	-1.51	40°14'11.057"N	104°49'37.126"W	0.00	
1752.00†	0.330	198.740	1751.98	6.84	-6.84	-1.70	40°14'11.051"N	104°49'37.128"W	0.00	
1852.00†	0.330	198.740	1851.98	7.39	-7.39	-1.88	40°14'11.046"N	104°49'37.130"W	0.00	
1952.00†	0.330	198.740	1951.98	7.93	-7.93	-2.07	40°14'11.041"N	104°49'37.133"W	0.00	
2052.00†	0.330	198.740	2051.97	8.48	-8.48	-2.25	40°14'11.035"N	104°49'37.135"W	0.00	
2152.00†	0.330	198.740	2151.97	9.02	-9.02	-2.44	40°14'11.030"N	104°49'37.137"W	0.00	
2252.00†	0.330	198.740	2251.97	9.57	-9.57	-2.62	40°14'11.024"N	104°49'37.140"W	0.00	
2352.00†	0.330	198.740	2351.97	10.11	-10.11	-2.81	40°14'11.019"N	104°49'37.142"W	0.00	
2452.00†	0.330	198.740	2451.97	10.66	-10.66	-2.99	40°14'11.014"N	104°49'37.145"W	0.00	
2552.00†	0.330	198.740	2551.97	11.20	-11.20	-3.18	40°14'11.008"N	104°49'37.147"W	0.00	
2600.04	0.330	198.740	2600.00	11.46	-11.47	-3.27	40°14'11.006"N	104°49'37.148"W	0.00	BEGIN NUDGE
2652.00†	0.962	104.523	2651.96	11.72	-11.72	-2.89	40°14'11.003"N	104°49'37.143"W	2.00	
2752.00†	2.928	92.027	2751.90	12.02	-12.02	0.47	40°14'11.000"N	104°49'37.100"W	2.00	
2852.00†	4.921	89.601	2851.66	12.08	-12.08	7.31	40°14'11.000"N	104°49'37.012"W	2.00	
2952.00†	6.919	88.573	2951.12	11.91	-11.90	17.63	40°14'11.001"N	104°49'36.879"W	2.00	
3052.00†	8.917	88.004	3050.16	11.50	-11.48	31.39	40°14'11.006"N	104°49'36.701"W	2.00	
3152.00†	10.916	87.642	3148.66	10.85	-10.82	48.60	40°14'11.012"N	104°49'36.479"W	2.00	
3252.00†	12.916	87.391	3246.50	9.97	-9.92	69.23	40°14'11.021"N	104°49'36.213"W	2.00	
3352.00†	14.915	87.206	3343.57	8.85	-8.78	93.25	40°14'11.032"N	104°49'35.904"W	2.00	
3452.00†	16.915	87.064	3439.73	7.50	-7.41	120.64	40°14'11.046"N	104°49'35.551"W	2.00	
3506.27	18.000	87.000	3491.50	6.66	-6.57	136.89	40°14'11.054"N	104°49'35.341"W	2.00	END NUDGE
3552.00†	18.000	87.000	3534.99	5.94	-5.83	151.01	40°14'11.061"N	104°49'35.159"W	0.00	
3652.00†	18.000	87.000	3630.09	4.34	-4.21	181.87	40°14'11.077"N	104°49'34.761"W	0.00	
3752.00†	18.000	87.000	3725.20	2.74	-2.60	212.72	40°14'11.093"N	104°49'34.363"W	0.00	
3832.75†	18.000	87.000	3802.00	1.45	-1.29	237.64	40°14'11.106"N	104°49'34.042"W	0.00	Parkman
3852.00†	18.000	87.000	3820.31	1.15	-0.98	243.58	40°14'11.109"N	104°49'33.965"W	0.00	



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Area	COLORADO	Well	HENRICKSON FEDERAL 13N-18HZ	
Field	WELD COUNTY (KERR MCGEE)	Wellbore	HENRICKSON FEDERAL 13N-18HZ PWB	
Facility	SEC.07-T3N-R66W			

WELLPATH DATA (150 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
3952.00†	18.000	87.000	3915.41	-0.45	0.64	274.44	40°14'11.125"N	104°49'33.567"W	0.00	
4052.00†	18.000	87.000	4010.52	-2.04	2.26	305.30	40°14'11.141"N	104°49'33.169"W	0.00	
4152.00†	18.000	87.000	4105.62	-3.64	3.87	336.16	40°14'11.157"N	104°49'32.771"W	0.00	
4252.00†	18.000	87.000	4200.73	-5.24	5.49	367.02	40°14'11.173"N	104°49'32.374"W	0.00	
4299.60†	18.000	87.000	4246.00	-5.99	6.26	381.71	40°14'11.181"N	104°49'32.184"W	0.00	Sussex
4352.00†	18.000	87.000	4295.83	-6.83	7.11	397.88	40°14'11.189"N	104°49'31.976"W	0.00	
4452.00†	18.000	87.000	4390.94	-8.43	8.73	428.74	40°14'11.205"N	104°49'31.578"W	0.00	
4552.00†	18.000	87.000	4486.05	-10.02	10.34	459.60	40°14'11.221"N	104°49'31.180"W	0.00	
4652.00†	18.000	87.000	4581.15	-11.62	11.96	490.46	40°14'11.237"N	104°49'30.782"W	0.00	
4752.00†	18.000	87.000	4676.26	-13.21	13.58	521.32	40°14'11.253"N	104°49'30.384"W	0.00	
4852.00†	18.000	87.000	4771.36	-14.81	15.19	552.18	40°14'11.269"N	104°49'29.986"W	0.00	
4952.00†	18.000	87.000	4866.47	-16.41	16.81	583.04	40°14'11.285"N	104°49'29.588"W	0.00	
5052.00†	18.000	87.000	4961.57	-18.00	18.43	613.90	40°14'11.301"N	104°49'29.190"W	0.00	
5152.00†	18.000	87.000	5056.68	-19.60	20.05	644.76	40°14'11.317"N	104°49'28.792"W	0.00	
5252.00†	18.000	87.000	5151.78	-21.19	21.66	675.61	40°14'11.333"N	104°49'28.394"W	0.00	
5352.00†	18.000	87.000	5246.89	-22.79	23.28	706.47	40°14'11.349"N	104°49'27.997"W	0.00	
5421.51	18.000	87.000	5313.00	-23.90	24.41	727.92	40°14'11.360"N	104°49'27.720"W	0.00	BEGIN DROP
5452.00†	17.390	87.000	5342.05	-24.38	24.89	737.18	40°14'11.365"N	104°49'27.601"W	2.00	
5552.00†	15.390	87.000	5437.98	-25.83	26.37	765.36	40°14'11.379"N	104°49'27.237"W	2.00	
5652.00†	13.390	87.000	5534.83	-27.12	27.67	790.17	40°14'11.392"N	104°49'26.917"W	2.00	
5752.00†	11.390	87.000	5632.50	-28.22	28.79	811.60	40°14'11.403"N	104°49'26.641"W	2.00	
5852.00†	9.390	87.000	5730.86	-29.16	29.73	829.61	40°14'11.413"N	104°49'26.409"W	2.00	
5952.00†	7.390	87.000	5829.78	-29.91	30.50	844.18	40°14'11.420"N	104°49'26.221"W	2.00	
6052.00†	5.390	87.000	5929.15	-30.48	31.08	855.29	40°14'11.426"N	104°49'26.078"W	2.00	
6152.00†	3.390	87.000	6028.86	-30.88	31.48	862.94	40°14'11.430"N	104°49'25.979"W	2.00	
6252.00†	1.390	87.000	6128.76	-31.09	31.70	867.10	40°14'11.432"N	104°49'25.925"W	2.00	
6321.51	0.000	179.961	6198.27	-31.14	31.74	867.95	40°14'11.433"N	104°49'25.915"W	2.00	END DROP
6352.00†	0.000	179.961	6228.76	-31.14	31.74	867.95	40°14'11.433"N	104°49'25.915"W	0.00	
6452.00†	0.000	179.961	6328.76	-31.14	31.74	867.95	40°14'11.433"N	104°49'25.915"W	0.00	
6552.00†	0.000	179.961	6428.76	-31.14	31.74	867.95	40°14'11.433"N	104°49'25.915"W	0.00	
6626.28	0.000	179.961	6503.04	-31.14	31.74	867.95	40°14'11.433"N	104°49'25.915"W	0.00	KOP, BUILD @ 10°/100
6652.00†	2.572	179.961	6528.75	-30.56	31.17	867.95	40°14'11.427"N	104°49'25.915"W	10.00	
6752.00†	12.572	179.961	6627.75	-17.40	18.01	867.95	40°14'11.297"N	104°49'25.914"W	10.00	
6852.00†	22.572	179.961	6722.96	12.75	-12.15	867.98	40°14'10.999"N	104°49'25.914"W	10.00	
6952.00†	32.572	179.961	6811.49	58.98	-58.37	868.01	40°14'10.542"N	104°49'25.914"W	10.00	
7052.00†	42.572	179.961	6890.65	119.88	-119.27	868.05	40°14'09.940"N	104°49'25.913"W	10.00	
7151.95†	52.566	179.961	6958.00	193.55	-192.95	868.10	40°14'09.212"N	104°49'25.913"W	10.00	SSPG
7152.00†	52.572	179.961	6958.03	193.60	-192.99	868.10	40°14'09.212"N	104°49'25.913"W	10.00	
7248.57†	62.229	179.961	7010.00	274.85	-274.25	868.15	40°14'08.409"N	104°49'25.912"W	10.00	N100_A_CK
7252.00†	62.572	179.961	7011.59	277.89	-277.29	868.15	40°14'08.379"N	104°49'25.912"W	10.00	
7352.00†	72.572	179.961	7049.69	370.21	-369.61	868.22	40°14'07.466"N	104°49'25.911"W	10.00	
7452.00†	82.572	179.961	7071.19	467.75	-467.14	868.28	40°14'06.503"N	104°49'25.910"W	10.00	
7458.57†	83.229	179.961	7072.00	474.27	-473.66	868.29	40°14'06.438"N	104°49'25.910"W	10.00	N470_B_CK
7526.28	90.000	179.961	7076.00	541.82	-541.21	868.33	40°14'05.771"N	104°49'25.910"W	10.00	LANDING POINT
7552.00†	90.000	179.961	7076.00	567.54	-566.93	868.35	40°14'05.516"N	104°49'25.910"W	0.00	



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Field	WELD COUNTY (KERR MCGEE)	Wellbore	HENRICKSON FEDERAL 13N-18HZ PWB
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7652.00†	90.000	179.961	7076.00	667.54	-666.93	868.42	40°14'04.528"N	104°49'25.909"W	0.00	
7752.00†	90.000	179.961	7076.00	767.54	-766.93	868.48	40°14'03.540"N	104°49'25.908"W	0.00	
7852.00†	90.000	179.961	7076.00	867.54	-866.93	868.55	40°14'02.552"N	104°49'25.907"W	0.00	
7952.00†	90.000	179.961	7076.00	967.54	-966.93	868.62	40°14'01.564"N	104°49'25.906"W	0.00	
8052.00†	90.000	179.961	7076.00	1067.54	-1066.93	868.69	40°14'00.576"N	104°49'25.905"W	0.00	
8152.00†	90.000	179.961	7076.00	1167.54	-1166.93	868.75	40°13'59.587"N	104°49'25.905"W	0.00	
8252.00†	90.000	179.961	7076.00	1267.54	-1266.93	868.82	40°13'58.599"N	104°49'25.904"W	0.00	
8352.00†	90.000	179.961	7076.00	1367.54	-1366.93	868.89	40°13'57.611"N	104°49'25.903"W	0.00	
8452.00†	90.000	179.961	7076.00	1467.54	-1466.93	868.96	40°13'56.623"N	104°49'25.902"W	0.00	
8552.00†	90.000	179.961	7076.00	1567.54	-1566.93	869.02	40°13'55.635"N	104°49'25.901"W	0.00	
8652.00†	90.000	179.961	7076.00	1667.54	-1666.93	869.09	40°13'54.646"N	104°49'25.900"W	0.00	
8752.00†	90.000	179.961	7076.00	1767.54	-1766.93	869.16	40°13'53.658"N	104°49'25.900"W	0.00	
8852.00†	90.000	179.961	7076.00	1867.54	-1866.93	869.23	40°13'52.670"N	104°49'25.899"W	0.00	
8952.00†	90.000	179.961	7076.00	1967.54	-1966.93	869.29	40°13'51.682"N	104°49'25.898"W	0.00	
9052.00†	90.000	179.961	7076.00	2067.54	-2066.93	869.36	40°13'50.694"N	104°49'25.897"W	0.00	
9152.00†	90.000	179.961	7076.00	2167.54	-2166.93	869.43	40°13'49.705"N	104°49'25.896"W	0.00	
9252.00†	90.000	179.961	7076.00	2267.54	-2266.93	869.50	40°13'48.717"N	104°49'25.896"W	0.00	
9352.00†	90.000	179.961	7076.00	2367.54	-2366.93	869.57	40°13'47.729"N	104°49'25.895"W	0.00	
9452.00†	90.000	179.961	7076.00	2467.54	-2466.93	869.63	40°13'46.741"N	104°49'25.894"W	0.00	
9552.00†	90.000	179.961	7076.00	2567.54	-2566.93	869.70	40°13'45.753"N	104°49'25.893"W	0.00	
9652.00†	90.000	179.961	7076.00	2667.54	-2666.93	869.77	40°13'44.764"N	104°49'25.892"W	0.00	
9752.00†	90.000	179.961	7076.00	2767.54	-2766.93	869.84	40°13'43.776"N	104°49'25.891"W	0.00	
9852.00†	90.000	179.961	7076.00	2867.54	-2866.93	869.91	40°13'42.788"N	104°49'25.891"W	0.00	
9952.00†	90.000	179.961	7076.00	2967.54	-2966.93	869.97	40°13'41.800"N	104°49'25.890"W	0.00	
10052.00†	90.000	179.961	7076.00	3067.54	-3066.93	870.04	40°13'40.812"N	104°49'25.889"W	0.00	
10152.00†	90.000	179.961	7076.00	3167.54	-3166.93	870.11	40°13'39.823"N	104°49'25.888"W	0.00	
10252.00†	90.000	179.961	7076.00	3267.54	-3266.93	870.18	40°13'38.835"N	104°49'25.887"W	0.00	
10352.00†	90.000	179.961	7076.00	3367.54	-3366.93	870.25	40°13'37.847"N	104°49'25.886"W	0.00	
10452.00†	90.000	179.961	7076.00	3467.54	-3466.93	870.31	40°13'36.859"N	104°49'25.886"W	0.00	
10552.00†	90.000	179.961	7076.00	3567.54	-3566.93	870.38	40°13'35.871"N	104°49'25.885"W	0.00	
10652.00†	90.000	179.961	7076.00	3667.54	-3666.93	870.45	40°13'34.883"N	104°49'25.884"W	0.00	
10752.00†	90.000	179.961	7076.00	3767.54	-3766.93	870.52	40°13'33.894"N	104°49'25.883"W	0.00	
10852.00†	90.000	179.961	7076.00	3867.54	-3866.93	870.59	40°13'32.906"N	104°49'25.882"W	0.00	
10952.00†	90.000	179.961	7076.00	3967.54	-3966.93	870.66	40°13'31.918"N	104°49'25.881"W	0.00	
11052.00†	90.000	179.961	7076.00	4067.54	-4066.93	870.72	40°13'30.930"N	104°49'25.881"W	0.00	
11152.00†	90.000	179.961	7076.00	4167.54	-4166.93	870.79	40°13'29.942"N	104°49'25.880"W	0.00	
11252.00†	90.000	179.961	7076.00	4267.54	-4266.93	870.86	40°13'28.953"N	104°49'25.879"W	0.00	
11352.00†	90.000	179.961	7076.00	4367.54	-4366.93	870.93	40°13'27.965"N	104°49'25.878"W	0.00	
11452.00†	90.000	179.961	7076.00	4467.54	-4466.93	871.00	40°13'26.977"N	104°49'25.877"W	0.00	
11552.00†	90.000	179.961	7076.00	4567.54	-4566.93	871.07	40°13'25.989"N	104°49'25.876"W	0.00	
11652.00†	90.000	179.961	7076.00	4667.54	-4666.93	871.14	40°13'25.001"N	104°49'25.876"W	0.00	
11752.00†	90.000	179.961	7076.00	4767.54	-4766.93	871.20	40°13'24.012"N	104°49'25.875"W	0.00	
11852.00†	90.000	179.961	7076.00	4867.54	-4866.93	871.27	40°13'23.024"N	104°49'25.874"W	0.00	
11952.00†	90.000	179.961	7076.00	4967.54	-4966.93	871.34	40°13'22.036"N	104°49'25.873"W	0.00	
12052.00†	90.000	179.961	7076.00	5067.54	-5066.93	871.41	40°13'21.048"N	104°49'25.872"W	0.00	



Planned Wellpath Report

HENRICKSON FEDERAL 13N-18HZ (REV-E.0) PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#26 HENRICKSON FEDERAL 13N-18HZ (1706' FSL & 814' FWL, SEC.07)
Area	COLORADO	Well	HENRICKSON FEDERAL 13N-18HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	HENRICKSON FEDERAL 13N-18HZ PWB
Facility	SEC.07-T3N-R66W		

WELLPATH DATA (150 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12152.00†	90.000	179.961	7076.00	5167.54	-5166.93	871.48	40°13'20.060"N	104°49'25.871"W	0.00	
12252.00†	90.000	179.961	7076.00	5267.54	-5266.93	871.55	40°13'19.071"N	104°49'25.870"W	0.00	
12352.00†	90.000	179.961	7076.00	5367.54	-5366.93	871.62	40°13'18.083"N	104°49'25.870"W	0.00	
12452.00†	90.000	179.961	7076.00	5467.54	-5466.93	871.68	40°13'17.095"N	104°49'25.869"W	0.00	
12552.00†	90.000	179.961	7076.00	5567.54	-5566.93	871.75	40°13'16.107"N	104°49'25.868"W	0.00	
12652.00†	90.000	179.961	7076.00	5667.54	-5666.93	871.82	40°13'15.119"N	104°49'25.867"W	0.00	
12752.00†	90.000	179.961	7076.00	5767.54	-5766.93	871.89	40°13'14.130"N	104°49'25.866"W	0.00	
12852.00†	90.000	179.961	7076.00	5867.54	-5866.93	871.96	40°13'13.142"N	104°49'25.865"W	0.00	
12952.00†	90.000	179.961	7076.00	5967.54	-5966.93	872.03	40°13'12.154"N	104°49'25.865"W	0.00	
13052.00†	90.000	179.960	7076.00	6067.54	-6066.93	872.10	40°13'11.166"N	104°49'25.864"W	0.00	
13152.00†	90.000	179.960	7076.00	6167.54	-6166.93	872.17	40°13'10.178"N	104°49'25.863"W	0.00	
13252.00†	90.000	179.960	7076.00	6267.54	-6266.93	872.24	40°13'09.189"N	104°49'25.862"W	0.00	
13352.00†	90.000	179.960	7076.00	6367.54	-6366.93	872.30	40°13'08.201"N	104°49'25.861"W	0.00	
13452.00†	90.000	179.960	7076.00	6467.54	-6466.93	872.37	40°13'07.213"N	104°49'25.860"W	0.00	
13495.12	90.000	179.960	7076.00 ¹	6510.65	-6510.05	872.40	40°13'06.787"N	104°49'25.860"W	0.00	TOTAL DEPTH

HOLE & CASING SECTIONS -									
Ref Wellbore: HENRICKSON FEDERAL 13N-18HZ PWB					Ref Wellpath: HENRICKSON FEDERAL 13N-18HZ (REV-E.0) PWP				
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	13.00	952.00	939.00	13.00	951.99	0.00	0.00	-2.48	-0.22
9.625in Casing Surface	13.00	1020.00	1007.00	13.00	1019.99	0.00	0.00	-2.85	-0.34
8.75in Open Hole	1020.00	7526.28	6506.28	1019.99	7076.00	-2.85	-0.34	-541.21	868.33
7in Casing Intermediate	13.00	7526.28	7513.28	13.00	7076.00	0.00	0.00	-541.21	868.33
6.125in Open Hole	7526.28	13495.12	5968.84	7076.00	7076.00	-541.21	868.33	-6510.05	872.40
4.5in Casing Production	13.00	13495.12	13482.12	13.00	7076.00	0.00	0.00	-6510.05	872.40



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HENRICKSON FEDERAL 13N-18HZ (REV-E.0) PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#26 HENRICKSON FEDERAL 13N-18HZ (1706' FSL & 814' FWL, SEC.07)
Area	COLORADO	Well	HENRICKSON FEDERAL 13N-18HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	HENRICKSON FEDERAL 13N-18HZ PWB
Facility	SEC.07-T3N-R66W		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.07-T3N-R66W HARD LINES (460' SET BACKS)		4806.00	60.13	0.25	3187895.01	1329743.58	40°14'11.713"N	104°49'37.103"W	polygon
SEC.07-T3N-R66W SECTION LINES		4806.00	60.13	0.25	3187895.01	1329743.58	40°14'11.713"N	104°49'37.103"W	polygon
SEC.18-T3N-R66W HARD LINES (460' SET BACKS)		4806.00	60.13	0.25	3187895.01	1329743.58	40°14'11.713"N	104°49'37.103"W	polygon
SEC.18-T3N-R66W SECTION LINES		4806.00	-11524.81	2754.38	3190736.85	1318180.40	40°12'17.230"N	104°49'01.607"W	polygon
HENRICKSON FEDERAL 13N-18HZ BHL ON PLAT (460' FSL & 957' FWL, SEC.18) REV-2		7056.00	-6525.34	145.47	3188090.20	1323159.69	40°13'06.636"N	104°49'35.231"W	point
1) HENRICKSON FEDERAL 13N-18HZ BHL ON PLAT (460' FSL & 1684' FWL, SEC.18) REV-5	13495.12	7076.00	-6510.05	872.40	3188816.96	1323180.50	40°13'06.787"N	104°49'25.860"W	point
HENRICKSON FEDERAL 13N-18HZ BHL ON PLAT (460' FSL & 957' FWL, SEC.18) REV-1		7076.00	-6525.34	145.45	3188090.18	1323159.69	40°13'06.636"N	104°49'35.231"W	point
HENRICKSON FEDERAL 13N-18HZ LANDBOX		7076.00	0.00	0.00	3187895.22	1329683.45	40°14'11.119"N	104°49'37.106"W	polygon
HENRICKSON FEDERAL 13N-18HZ BHL (460' FSL & 1684' FWL, SEC.18) REV-4		7146.00	-6525.34	872.47	3188817.14	1323165.21	40°13'06.636"N	104°49'25.859"W	point
HENRICKSON FEDERAL 13N-18HZ BHL ON PLAT (460' FSL & 1684' FWL, SEC.18) REV-4		7146.00	-6510.05	872.40	3188816.96	1323180.50	40°13'06.787"N	104°49'25.860"W	point
HENRICKSON FEDERAL 13N-18HZ BHL ON PLAT (460' FSL & 957' FWL, SEC.18) REV-3		7146.00	-6525.34	145.47	3188090.20	1323159.69	40°13'06.636"N	104°49'35.231"W	point

SURVEY PROGRAM - Ref Wellbore: HENRICKSON FEDERAL 13N-18HZ PWB Ref Wellpath: HENRICKSON FEDERAL 13N-18HZ (REV-E.0) PWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	952.00	Generic gyro - continuous (Standard)		HENRICKSON FEDERAL 13N-18HZ AWB
952.00	7526.98	NaviTrak (MAGCORR,IFR)		HENRICKSON FEDERAL 13N-18HZ PWB
7526.98	13495.12	OnTrak (MAGCORR,IFR)		HENRICKSON FEDERAL 13N-18HZ PWB



Planned Wellpath Report

HENRICKSON FEDERAL 13N-18HZ (REV-E.0) PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#26 HENRICKSON FEDERAL 13N-18HZ (1706' FSL & 814' FWL, SEC.07)
Area	COLORADO	Well	HENRICKSON FEDERAL 13N-18HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	HENRICKSON FEDERAL 13N-18HZ PWB
Facility	SEC.07-T3N-R66W		

WELLPATH COMMENTS					
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment	
512.00	0.060	156.086	512.00	Fox Hills Base	
3832.75	18.000	87.000	3802.00	Parkman	
4299.60	18.000	87.000	4246.00	Sussex	
7151.95	52.566	179.961	6958.00	SSPG	
7248.57	62.229	179.961	7010.00	N100_A_CK	
7458.57	83.229	179.961	7072.00	N470_B_CK	

DESIGN COMMENTS					
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment	
952.00	0.330	198.740	951.99	TIE-INTO GYRO SURVEYS	
2600.04	0.330	198.740	2600.00	BEGIN NUDGE	
3506.27	18.000	87.000	3491.50	END NUDGE	
5421.51	18.000	87.000	5313.00	BEGIN DROP	
6321.51	0.000	179.961	6198.27	END DROP	
6626.28	0.000	179.961	6503.04	KOP, BUILD @ 10°/100	
7526.28	90.000	179.961	7076.00	LANDING POINT	
13495.12	90.000	179.960	7076.00	TOTAL DEPTH	