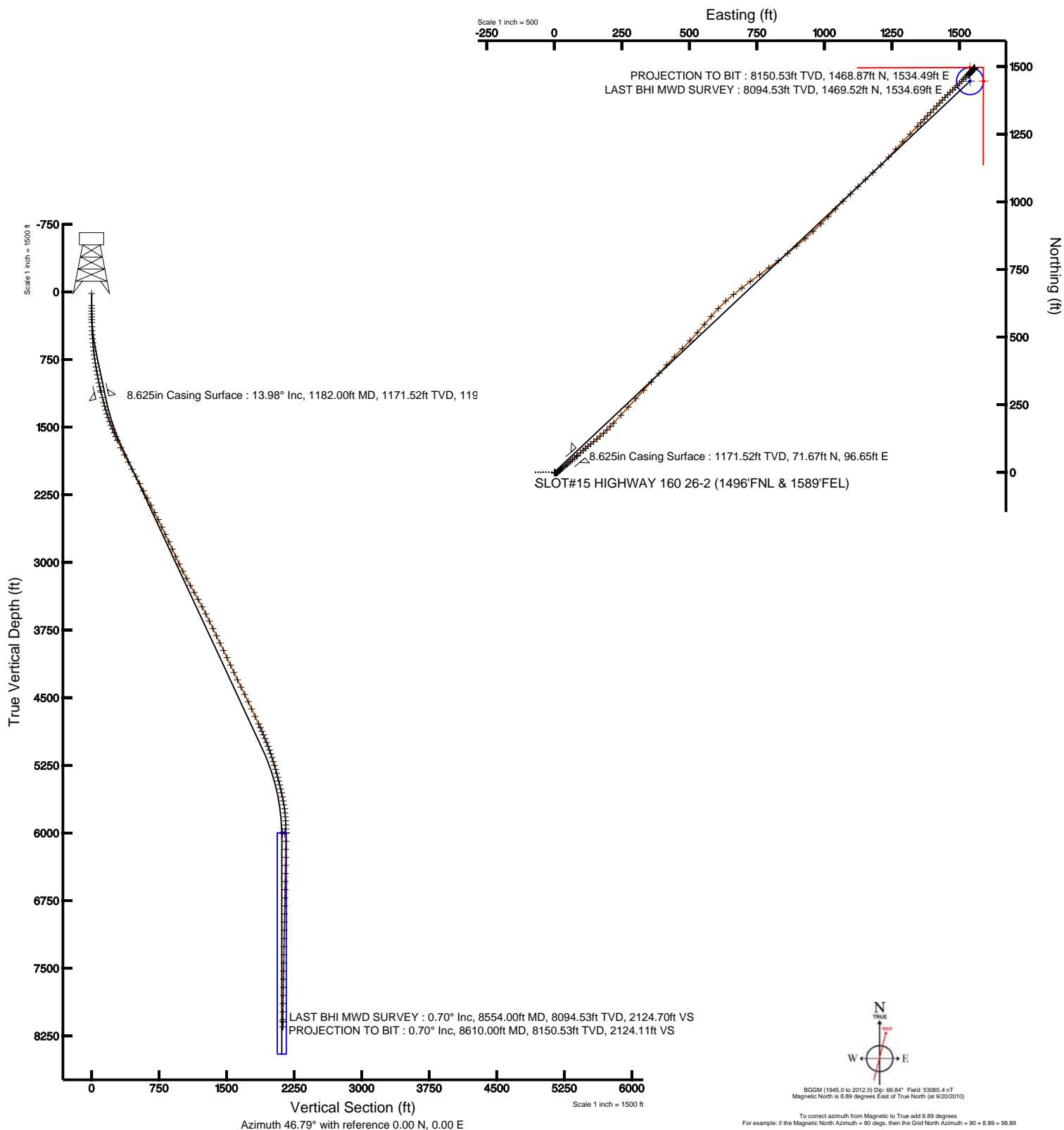


Location:	COLORADO	Slot:	SLOT#15 HIGHWAY 160 26-2 (1496/FNL & 1589/FEL)
Field:	WELD COUNTY (KERR MCGEE)	Well:	HIGHWAY 160 26-2
Facility:	SEC.02-T1N-R66W	Wellbore:	HIGHWAY 160 26-2 PWB



Plot reference wgs84 is HIGHWAY 160 26.2 (REV-A-0) PWP	
True vertical depths are referenced to XTREME 8 (RT)	Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet
Measured depths are referenced to XTREME 8 (RT)	North Reference: True north
XTREME 8 (RT) to Mean Sea Level: 6121 feet	Scale: True distance
Mean Sea Level to Mud line (Facility SEC-02-T1N-R66W): 0 feet	Depths are in: feet
Coordinates are in feet referenced to Sict	Created by: cooldamn on 10/26/2010





Actual Wellpath Report

HIGHWAY 160 26-2 AWP

Page 1 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#15 HIGHWAY 160 26-2 (1496'FNL & 1589'FEL)
Area	COLORADO	Well	HIGHWAY 160 26-2
Field	WELD COUNTY (KERR MCGEE)	Wellbore	HIGHWAY 160 26-2 AWB
Facility	SEC.02-T1N-R66W		

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	0.999961	Report Generated	10/26/2010 at 12:33:49 PM
Convergence at slot	0.49° East	Database/Source file	Denver Server/HIGHWAY_160_26-2_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	-298.60	2465.52	3212509.55	1274083.91	40°04'59.711"N	104°44'25.861"W
Facility Reference Pt			3210041.69	1274361.62	40°05'02.663"N	104°44'57.581"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 8 (RT) to Facility Vertical Datum	5121.00ft
Horizontal Reference Pt	Slot	XTREME 8 (RT) to Mean Sea Level	5121.00ft
Vertical Reference Pt	XTREME 8 (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	XTREME 8 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	46.79°



Actual Wellpath Report

HIGHWAY 160 26-2 AWP

Page 2 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#15 HIGHWAY 160 26-2 (1496'FNL & 1589'FEL)
Area	COLORADO	Well	HIGHWAY 160 26-2
Field	WELD COUNTY (KERR MCGEE)	Wellbore	HIGHWAY 160 26-2 AWB
Facility	SEC.02-T1N-R66W		

WELLPATH DATA (130 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	174.100	0.00	0.00	0.00	0.00	0.00	
17.00	0.000	174.100	17.00	0.00	0.00	0.00	0.00	
151.00	0.600	174.100	151.00	-0.43	-0.70	0.07	0.45	
182.00	0.800	152.300	182.00	-0.58	-1.05	0.19	1.06	
213.00	0.900	132.600	212.99	-0.62	-1.41	0.47	0.99	
244.00	1.100	112.900	243.99	-0.48	-1.69	0.92	1.27	
276.00	1.400	112.600	275.98	-0.20	-1.96	1.57	0.94	
307.00	1.800	104.200	306.97	0.22	-2.22	2.39	1.49	
338.00	2.100	99.600	337.95	0.82	-2.44	3.42	1.09	
385.00	2.800	93.300	384.91	2.13	-2.65	5.42	1.59	
430.00	3.300	77.100	429.84	4.01	-2.42	7.78	2.20	
475.00	3.300	60.600	474.77	6.39	-1.50	10.17	2.10	
520.00	4.000	52.100	519.68	9.21	0.10	12.53	1.96	
566.00	5.000	47.600	565.54	12.81	2.44	15.28	2.30	
611.00	6.000	44.800	610.33	17.12	5.43	18.38	2.30	
656.00	6.800	46.500	655.05	22.13	8.94	21.97	1.83	
700.00	7.100	49.300	698.72	27.46	12.50	25.93	1.03	
745.00	8.100	51.400	743.33	33.39	16.29	30.51	2.31	
790.00	8.900	51.800	787.83	40.02	20.42	35.72	1.78	
835.00	9.600	52.100	832.25	47.23	24.88	41.42	1.56	
879.00	10.500	51.400	875.57	54.87	29.64	47.45	2.06	
924.00	11.100	49.700	919.78	63.29	35.00	53.96	1.51	
969.00	11.100	48.600	963.93	71.94	40.66	60.51	0.47	
1014.00	12.200	49.300	1008.01	81.02	46.63	67.37	2.46	
1059.00	13.000	50.700	1051.92	90.82	52.94	74.89	1.90	
1103.00	13.500	49.700	1094.75	100.89	59.39	82.63	1.25	
1119.00	13.400	49.300	1110.31	104.61	61.81	85.46	0.85	
1237.00	14.500	46.900	1224.83	133.04	80.82	106.62	1.05	
1282.00	15.400	50.700	1268.31	144.64	88.45	115.35	2.96	
1326.00	16.200	50.000	1310.65	156.59	96.10	124.58	1.87	
1370.00	17.600	50.700	1352.74	169.36	104.26	134.43	3.22	
1415.00	19.200	51.100	1395.44	183.53	113.21	145.45	3.57	
1461.00	20.600	51.400	1438.70	199.14	123.01	157.66	3.05	
1505.00	20.900	47.900	1479.84	214.70	133.10	169.54	2.90	
1550.00	22.100	46.900	1521.71	231.19	144.27	181.67	2.79	
1596.00	22.700	45.500	1564.24	248.72	156.40	194.32	1.75	
1641.00	23.600	44.400	1605.62	266.40	168.93	206.82	2.22	
1686.00	24.800	43.700	1646.66	284.82	182.19	219.64	2.74	
1777.00	26.400	42.300	1728.73	324.05	210.95	246.44	1.88	
1867.00	27.400	41.600	1808.99	364.62	241.23	273.66	1.17	
1956.00	28.200	43.000	1887.71	406.00	271.93	301.60	1.16	
2046.00	28.300	43.300	1966.99	448.52	303.01	330.73	0.19	
2135.00	28.000	41.900	2045.47	490.39	333.91	359.15	0.82	
2226.00	28.200	41.900	2125.74	533.10	365.81	387.78	0.22	
2316.00	27.200	43.000	2205.43	574.81	396.69	416.01	1.25	



Actual Wellpath Report

HIGHWAY 160 26-2 AWP

Page 3 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#15 HIGHWAY 160 26-2 (1496'FNL & 1589'FEL)
Area	COLORADO	Well	HIGHWAY 160 26-2
Field	WELD COUNTY (KERR MCGEE)	Wellbore	HIGHWAY 160 26-2 AWB
Facility	SEC.02-T1N-R66W		

WELLPATH DATA (130 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
2406.00	28.000	43.300	2285.18	616.42	427.11	444.53	0.90	
2497.00	27.100	45.500	2365.87	658.47	457.18	473.96	1.49	
2588.00	27.000	42.600	2446.92	699.79	486.92	502.73	1.45	
2676.00	26.900	43.300	2525.36	739.58	516.11	529.90	0.38	
2767.00	25.200	37.400	2607.13	779.26	546.49	555.79	3.40	
2858.00	25.700	41.900	2689.30	818.03	576.57	580.74	2.19	
2948.00	25.700	43.300	2770.40	856.95	605.29	607.16	0.67	
3039.00	24.900	46.900	2852.68	895.81	632.75	634.68	1.91	
3130.00	24.600	52.100	2935.33	933.83	657.47	663.62	2.41	
3220.00	26.200	52.100	3016.62	972.27	681.19	694.08	1.78	
3310.00	27.100	52.800	3097.06	1012.44	705.78	726.08	1.06	
3401.00	28.500	54.900	3177.56	1054.55	730.80	760.36	1.88	
3490.00	29.100	52.800	3255.55	1097.09	756.10	794.97	1.32	
3579.00	29.400	52.800	3333.20	1140.34	782.39	829.61	0.34	
3668.00	28.800	51.100	3410.97	1183.45	809.06	863.69	1.15	
3759.00	27.900	50.000	3491.06	1226.56	836.51	897.06	1.14	
3849.00	26.700	49.300	3571.03	1267.79	863.23	928.52	1.38	
3939.00	26.700	45.100	3651.44	1308.20	890.69	958.18	2.10	
4030.00	25.300	47.200	3733.23	1348.08	918.34	986.93	1.84	
4119.00	25.400	44.800	3813.66	1386.18	944.80	1014.33	1.16	
4209.00	26.000	42.000	3894.76	1425.13	973.16	1041.13	1.50	
4300.00	26.200	46.200	3976.49	1465.09	1001.89	1068.98	2.04	
4388.00	26.000	45.500	4055.52	1503.80	1028.85	1096.76	0.42	
4479.00	24.900	46.200	4137.69	1542.90	1056.09	1124.82	1.25	
4570.00	24.500	46.900	4220.36	1580.93	1082.25	1152.42	0.54	
4660.00	25.500	47.200	4301.93	1618.96	1108.16	1180.26	1.12	
4750.00	27.300	46.200	4382.54	1658.98	1135.61	1209.37	2.06	
4841.00	26.600	41.900	4463.66	1700.15	1165.22	1238.05	2.27	
4931.00	25.500	41.600	4544.52	1739.52	1194.71	1264.36	1.23	
5021.00	24.700	44.400	4626.02	1777.60	1222.63	1290.38	1.59	
5112.00	26.100	44.100	4708.22	1816.59	1250.59	1317.62	1.54	
5203.00	24.300	43.000	4790.56	1855.28	1278.66	1344.32	2.04	
5248.00	24.300	44.400	4831.57	1873.77	1292.05	1357.11	1.28	
5293.00	23.600	43.000	4872.70	1892.01	1305.25	1369.74	2.00	
5336.00	22.900	43.700	4912.21	1908.95	1317.60	1381.39	1.75	
5381.00	22.200	43.700	4953.77	1926.18	1330.07	1393.31	1.56	
5427.00	21.400	44.100	4996.48	1943.24	1342.38	1405.15	1.77	
5472.00	20.800	43.300	5038.46	1959.42	1354.09	1416.35	1.48	
5517.00	20.000	42.600	5080.64	1975.07	1365.57	1427.03	1.86	
5560.00	18.700	42.600	5121.21	1989.28	1376.06	1436.68	3.02	
5606.00	18.000	45.500	5164.87	2003.74	1386.47	1446.74	2.50	
5651.00	17.300	45.500	5207.75	2017.38	1396.03	1456.47	1.56	
5696.00	16.700	46.900	5250.78	2030.53	1405.14	1465.96	1.61	
5741.00	15.700	46.900	5294.00	2043.09	1413.72	1475.13	2.22	
5787.00	15.200	45.500	5338.33	2055.34	1422.20	1483.98	1.36	



Actual Wellpath Report

HIGHWAY 160 26-2 AWP

Page 4 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#15 HIGHWAY 160 26-2 (1496'FNL & 1589'FEL)
Area	COLORADO	Well	HIGHWAY 160 26-2
Field	WELD COUNTY (KERR MCGEE)	Wellbore	HIGHWAY 160 26-2 AWB
Facility	SEC.02-T1N-R66W		

WELLPATH DATA (130 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5832.00	14.500	44.800	5381.83	2066.87	1430.33	1492.15	1.61	
5876.00	14.500	47.200	5424.43	2077.88	1437.98	1500.08	1.37	
5921.00	13.900	43.300	5468.06	2088.91	1445.74	1507.92	2.51	
5966.00	13.200	43.000	5511.80	2099.43	1453.44	1515.13	1.56	
6011.00	11.900	45.500	5555.73	2109.20	1460.45	1521.94	3.13	
6056.00	11.800	45.800	5599.77	2118.44	1466.91	1528.55	0.26	
6101.00	11.400	46.500	5643.85	2127.48	1473.17	1535.08	0.94	
6146.00	10.000	50.700	5688.07	2135.83	1478.71	1541.33	3.56	
6191.00	7.900	54.200	5732.52	2142.80	1483.00	1546.86	4.82	
6237.00	6.100	50.000	5778.17	2148.37	1486.42	1551.29	4.07	
6280.00	4.100	44.100	5821.00	2152.19	1488.99	1554.11	4.80	
6324.00	2.700	42.600	5864.92	2154.79	1490.88	1555.91	3.19	
6370.00	2.300	28.600	5910.88	2156.75	1492.49	1557.09	1.58	
6415.00	1.600	329.900	5955.86	2157.75	1493.83	1557.20	4.46	
6460.00	1.500	322.800	6000.84	2157.96	1494.84	1556.53	0.48	
6551.00	0.400	205.800	6091.83	2157.78	1495.50	1555.67	1.89	
6641.00	0.500	239.900	6181.83	2157.11	1495.02	1555.20	0.31	
6730.00	1.000	228.600	6270.82	2155.95	1494.31	1554.28	0.58	
6819.00	1.100	218.400	6359.80	2154.33	1493.13	1553.16	0.24	
6910.00	1.100	213.900	6450.79	2152.62	1491.72	1552.14	0.09	
6999.00	1.200	221.900	6539.77	2150.85	1490.32	1551.04	0.21	
7089.00	1.100	221.600	6629.75	2149.06	1488.97	1549.83	0.11	
7180.00	1.100	223.000	6720.73	2147.31	1487.68	1548.66	0.03	
7269.00	1.300	218.800	6809.71	2145.46	1486.27	1547.44	0.25	
7358.00	1.100	232.100	6898.70	2143.61	1484.95	1546.14	0.38	
7448.00	1.200	223.000	6988.68	2141.81	1483.73	1544.81	0.23	
7539.00	1.100	204.400	7079.66	2140.05	1482.24	1543.80	0.42	
7630.00	1.000	204.700	7170.64	2138.51	1480.73	1543.11	0.11	
7720.00	0.800	228.600	7260.63	2137.15	1479.60	1542.31	0.47	
7810.00	0.800	223.300	7350.62	2135.90	1478.72	1541.41	0.08	
7901.00	0.900	224.400	7441.61	2134.55	1477.75	1540.47	0.11	
7991.00	0.900	227.900	7531.60	2133.14	1476.77	1539.45	0.06	
8081.00	1.000	206.500	7621.59	2131.69	1475.60	1538.58	0.41	
8172.00	1.000	208.900	7712.58	2130.19	1474.19	1537.84	0.05	
8262.00	1.200	214.900	7802.56	2128.52	1472.73	1536.92	0.26	
8352.00	1.000	215.300	7892.54	2126.83	1471.32	1535.93	0.22	
8442.00	0.500	210.300	7982.54	2125.69	1470.34	1535.28	0.56	
8529.00	0.500	226.500	8069.53	2124.94	1469.75	1534.81	0.16	
8554.00	0.700	196.300	8094.53	2124.70	1469.52	1534.69	1.47	LAST BHI MWD SURVEY
8610.00	0.700	196.300	8150.53	2124.11	1468.87	1534.49	0.00	PROJECTION TO BIT



Actual Wellpath Report

HIGHWAY 160 26-2 AWP

Page 5 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#15 HIGHWAY 160 26-2 (1496'FNL & 1589'FEL)
Area	COLORADO	Well	HIGHWAY 160 26-2
Field	WELD COUNTY (KERR MCGEE)	Wellbore	HIGHWAY 160 26-2 AWB
Facility	SEC.02-T1N-R66W		

HOLE & CASING SECTIONS Ref Wellbore: HIGHWAY 160 26-2 AWB Ref Wellpath: HIGHWAY 160 26-2 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	17.00	1182.00	1165.00	17.00	1171.52	0.00	0.00	71.67	96.65
8.625in Casing Surface	17.00	1182.00	1165.00	17.00	1171.52	0.00	0.00	71.67	96.65
7.875in Open Hole	1182.00	8610.00	7428.00	1171.52	8150.53	71.67	96.65	1468.87	1534.49

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
HIGHWAY 160 26-2 BHL ON PLAT (38'FNL & 50'FEL, REV-1)		6000.00	1458.31	1539.50	3214036.43	1275555.29	40°05'14.122"N	104°44'06.054"W	point
HIGHWAY 160 26-2 GEO TARGET 50'RADIUS (50'FNL & 50'FEL, REV-2)		6000.00	1446.31	1539.50	3214036.54	1275543.30	40°05'14.003"N	104°44'06.054"W	circle
HIGHWAY 160 26-2 HARDLINE 50'FEL OF GEO TARGET		6000.00	1446.31	1589.50	3214086.54	1275543.72	40°05'14.003"N	104°44'05.411"W	point
HIGHWAY 160 26-2 HARDLINE 50'FNL OF GEO TARGET		6000.00	1496.31	1539.50	3214036.11	1275593.29	40°05'14.497"N	104°44'06.054"W	point

WELLPATH COMPOSITION Ref Wellbore: HIGHWAY 160 26-2 AWB Ref Wellpath: HIGHWAY 160 26-2 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.00	1119.00	NaviTrak (Standard)	BHI MWD SURVEYS 12.25 HOLE <151-1119>	HIGHWAY 160 26-2 AWB
1119.00	8554.00	NaviTrak (Standard)	BHI MWD SURVEYS 7.875 HOLE <1237-8554>	HIGHWAY 160 26-2 AWB
8554.00	8610.00	Blind Drilling (std)	Projection to bit	HIGHWAY 160 26-2 AWB



Actual Wellpath Report

HIGHWAY 160 26-2 AWP

Page 6 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#15 HIGHWAY 160 26-2 (1496'FNL & 1589'FEL)
Area	COLORADO	Well	HIGHWAY 160 26-2
Field	WELD COUNTY (KERR MCGEE)	Wellbore	HIGHWAY 160 26-2 AWB
Facility	SEC.02-T1N-R66W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8554.00	0.700	196.300	8094.53	LAST BHI MWD SURVEY
8610.00	0.700	196.300	8150.53	PROJECTION TO BIT