



02070959

KERR MCGEE OIL & GAS ONSHORE LP

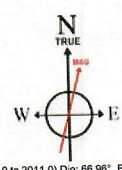
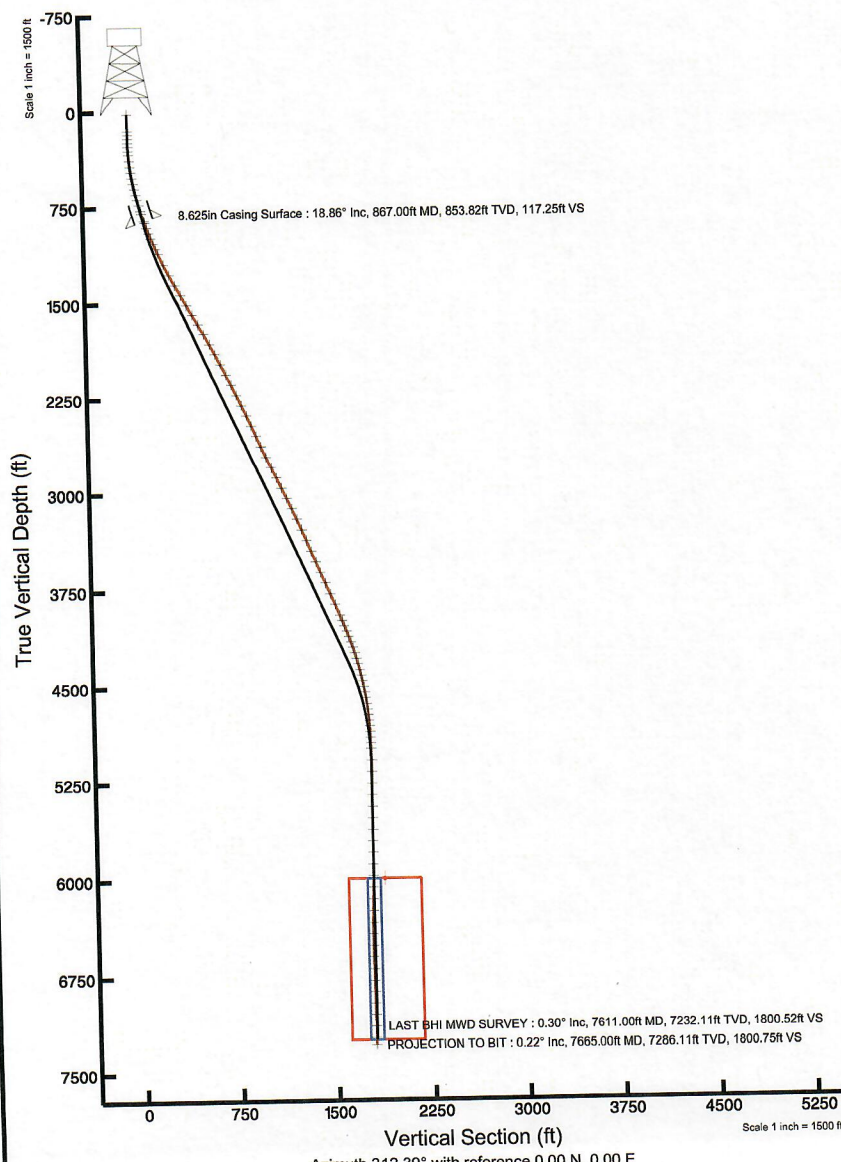
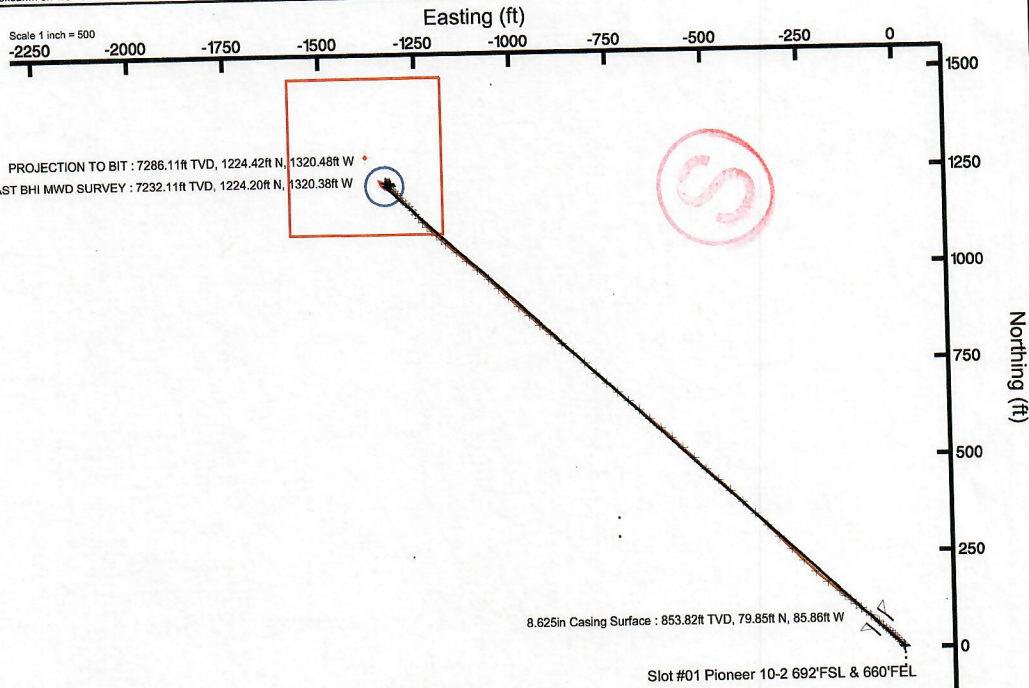
Location: COLORADO Slot: Slot #01 Pioneer 10-2 692'FSL & 660'FEL
 Field: WELD COUNTY (KERR MCGEE) Well: Pioneer 10-2
 Facility: SEC.02-T2N-R65W Wellbore: Pioneer 10-2 PWB



BAKER HUGHES

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 AUG 24 2010
COGCC

Plot reference wellpath is Pioneer 10-2 PWP Rev-B.0	
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: 4865 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: SEC.02-T2N-R65W): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdanm on 1/8/2010



BGGM (1945.0 to 2011.0) Dip: 66.96° Field: 53235.8 nT
 Magnetic North is 8.94 degrees East of True North (at 11/10/2009)

To correct azimuth from Magnetic to True add 8.94 degrees
 For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 8.94 = 98.94



Actual Wellpath Report

Pioneer 10-2 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	Slot #01 Pioneer 10-2 692'FSL & 660'FEL
Area	COLORADO	Well	Pioneer 10-2
Field	WELD COUNTY (KERR MCGEE)	Wellbore	Pioneer 10-2 AWB
Facility	SEC.02-T2N-R65W		

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	0.999958	Report Generated	1/8/2010 at 5:22:29 PM
Convergence at slot	0.57° East	Database/Source file	Denver Server/Pioneer_10-2_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	3244904.72	1303182.74	40°09'44.316"N	104°37'25.392"W
Facility Reference Pt			3244904.72	1303182.74	40°09'44.316"N	104°37'25.392"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	4865.00ft
Horizontal Reference Pt	Slot	Xtreme 8 (RT) to Mean Sea Level	4865.00ft
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	312.39°



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Field	WELD COUNTY (KERR MCGEE)	Wellbore	Pioneer 10-2 AWB
Facility	SEC.02-T2N-R65W		

WELLPATH DATA (112 stations) † = interpolated/extrapolated station

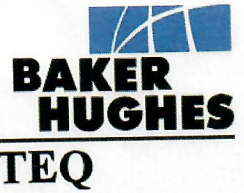
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	322.200	0.00	0.00	0.00	0.00	0.00	
17.00	0.000	322.200	17.00	0.00	0.00	0.00	0.00	
145.00	0.400	322.200	145.00	0.44	0.35	-0.27	0.31	
176.00	0.600	337.000	176.00	0.69	0.59	-0.40	0.76	
207.00	1.100	319.000	206.99	1.14	0.96	-0.66	1.81	
238.00	1.500	321.500	237.99	1.83	1.50	-1.11	1.30	
269.00	2.500	318.300	268.97	2.91	2.33	-1.81	3.24	
301.00	3.200	316.900	300.93	4.49	3.50	-2.89	2.20	
332.00	4.200	315.900	331.86	6.49	4.95	-4.27	3.23	
379.00	6.100	317.600	378.67	10.69	8.03	-7.15	4.06	
425.00	7.400	318.000	424.35	16.07	12.03	-10.78	2.83	
470.00	9.100	318.700	468.88	22.50	16.86	-15.07	3.78	
515.00	10.000	315.500	513.26	29.93	22.32	-20.16	2.32	
560.00	11.000	312.700	557.51	38.13	28.02	-26.05	2.49	
605.00	11.400	310.900	601.65	46.87	33.84	-32.57	1.18	
649.00	13.100	312.300	644.65	56.20	40.05	-39.54	3.92	
694.00	14.500	312.000	688.35	66.94	47.25	-47.50	3.12	
738.00	16.100	311.600	730.78	78.55	54.99	-56.16	3.64	
784.00	17.100	310.900	774.87	91.68	63.65	-66.04	2.22	
804.00	17.500	309.900	793.96	97.63	67.50	-70.57	2.49	
878.00	19.100	307.700	864.22	120.81	82.04	-88.68	2.35	
922.00	20.200	308.100	905.66	135.56	91.13	-100.36	2.52	
967.00	21.500	307.400	947.71	151.53	100.94	-113.02	2.94	
1011.00	22.700	308.800	988.47	168.03	111.15	-126.05	2.98	
1056.00	23.500	308.100	1029.87	185.64	122.13	-139.87	1.88	
1102.00	24.300	310.900	1071.92	204.25	133.99	-154.25	3.02	
1147.00	25.200	309.200	1112.79	223.07	146.11	-168.67	2.55	
1238.00	26.500	310.200	1194.68	262.71	171.45	-199.19	1.51	
1329.00	27.100	313.400	1275.91	303.72	198.80	-229.76	1.72	
1420.00	28.000	313.700	1356.59	345.80	227.80	-260.26	1.00	
1509.00	29.200	314.800	1434.73	388.38	257.53	-290.77	1.47	
1600.00	29.600	315.500	1514.01	433.00	289.21	-322.28	0.58	
1687.00	30.200	314.100	1589.43	476.33	319.76	-353.05	1.06	
1777.00	29.800	315.200	1667.38	521.29	351.38	-385.06	0.76	
1866.00	29.300	313.300	1744.80	565.15	382.01	-416.50	1.19	
1957.00	27.800	313.700	1824.73	608.64	411.94	-448.05	1.66	
2045.00	28.700	312.300	1902.25	650.28	440.34	-478.51	1.27	
2134.00	27.800	312.300	1980.65	692.41	468.69	-509.67	1.01	
2225.00	27.200	313.700	2061.37	734.42	497.34	-540.40	0.97	
2315.00	25.800	313.000	2141.91	774.57	524.91	-569.60	1.59	
2405.00	24.700	312.000	2223.31	812.96	550.85	-597.90	1.31	
2496.00	24.300	310.900	2306.12	850.69	575.84	-626.18	0.67	
2586.00	24.000	313.000	2388.24	887.51	600.44	-653.56	1.01	
2675.00	23.600	310.200	2469.68	923.41	624.29	-680.41	1.35	
2764.00	23.600	310.200	2551.23	959.01	647.29	-707.62	0.00	



Actual Wellpath Report

Pioneer 10-2 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	Slot #01 Pioneer 10-2 692'FSL & 660'FEL
Area	COLORADO	Well	Pioneer 10-2
Field	WELD COUNTY (KERR MCGEE)	Wellbore	Pioneer 10-2 AWB
Facility	SEC.02-T2N-R65W		

WELLPATH DATA (112 stations)

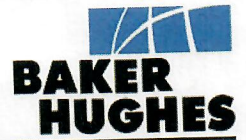
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
2854.00	24.300	310.200	2633.48	995.52	670.87	-735.53	0.78	
2945.00	24.500	310.900	2716.35	1033.09	695.31	-764.09	0.39	
3036.00	25.200	314.800	2798.93	1071.31	721.31	-792.10	1.96	
3126.00	25.800	312.700	2880.17	1110.04	748.10	-820.09	1.21	
3216.00	25.100	311.300	2961.43	1148.72	773.98	-848.83	1.03	
3306.00	25.500	309.200	3042.80	1187.15	798.82	-878.18	1.09	
3395.00	25.100	310.600	3123.27	1225.14	823.22	-907.36	0.81	
3485.00	23.600	312.000	3205.26	1262.24	847.70	-935.24	1.79	
3576.00	23.700	312.300	3288.62	1298.74	872.19	-962.31	0.17	
3666.00	23.200	310.200	3371.18	1334.55	895.81	-989.23	1.08	
3757.00	22.600	312.300	3455.01	1369.94	919.15	-1015.85	1.11	
3846.00	22.900	316.900	3537.10	1404.31	943.30	-1040.33	2.03	
3936.00	24.400	311.300	3619.55	1440.36	968.36	-1066.27	3.00	
4025.00	25.000	311.300	3700.40	1477.54	992.91	-1094.21	0.67	
4115.00	24.100	312.000	3782.27	1514.93	1017.75	-1122.15	1.05	
4204.00	23.400	310.600	3863.73	1550.77	1041.41	-1149.07	1.01	
4295.00	21.400	311.300	3947.86	1585.43	1064.13	-1175.27	2.22	
4340.00	21.500	313.700	3989.74	1601.88	1075.25	-1187.40	1.96	
4385.00	21.500	312.300	4031.61	1618.37	1086.50	-1199.46	1.14	
4430.00	21.500	314.100	4073.48	1634.86	1097.78	-1211.48	1.47	
4476.00	21.500	315.900	4116.28	1651.70	1109.70	-1223.40	1.43	
4521.00	20.400	317.900	4158.31	1667.74	1121.45	-1234.40	2.92	
4566.00	19.100	318.700	4200.66	1682.87	1132.80	-1244.51	2.95	
4611.00	16.700	318.700	4243.48	1696.61	1143.19	-1253.64	5.33	
4657.00	15.500	319.700	4287.67	1709.28	1152.84	-1261.98	2.68	
4702.00	15.400	318.700	4331.04	1721.18	1161.92	-1269.81	0.63	
4748.00	14.400	314.800	4375.50	1732.97	1170.53	-1277.90	3.08	
4793.00	12.900	314.800	4419.23	1743.58	1178.02	-1285.44	3.33	
4838.00	11.800	317.200	4463.18	1753.18	1184.93	-1292.13	2.70	
4884.00	11.000	317.200	4508.28	1762.24	1191.60	-1298.31	1.74	
4927.00	9.600	318.300	4550.58	1769.90	1197.29	-1303.48	3.29	
4972.00	8.400	315.900	4595.03	1776.91	1202.45	-1308.26	2.79	
5017.00	7.900	310.200	4639.57	1783.28	1206.81	-1312.91	2.11	
5061.00	6.900	306.600	4683.21	1788.93	1210.34	-1317.34	2.50	
5106.00	5.400	308.800	4727.95	1793.74	1213.28	-1321.16	3.37	
5150.00	4.500	314.800	4771.78	1797.53	1215.79	-1324.00	2.36	
5195.00	4.600	320.800	4816.64	1801.08	1218.43	-1326.40	1.08	
5239.00	4.000	330.200	4860.52	1804.28	1221.13	-1328.27	2.10	
5284.00	2.600	344.700	4905.44	1806.64	1223.48	-1329.32	3.60	
5329.00	1.300	336.200	4950.42	1807.97	1224.93	-1329.80	2.95	
5372.00	0.500	283.200	4993.41	1808.58	1225.42	-1330.18	2.50	
5463.00	0.400	297.600	5084.41	1809.23	1225.66	-1330.85	0.17	
5553.00	0.000	310.900	5174.41	1809.54	1225.80	-1331.12	0.44	
5643.00	0.200	185.400	5264.41	1809.44	1225.65	-1331.14	0.22	
5733.00	0.400	164.000	5354.41	1809.08	1225.19	-1331.07	0.25	



Actual Wellpath Report

Pioneer 10-2 AWP

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Area	COLORADO	Well	Pioneer 10-2
Field	WELD COUNTY (KERR MCGEE)	Wellbore	Pioneer 10-2 AWB
Facility	SEC.02-T2N-R65W		

WELLPATH DATA (112 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5823.00	0.400	143.200	5444.40	1808.50	1224.63	-1330.79	0.16	
5911.00	0.400	124.300	5532.40	1807.90	1224.21	-1330.36	0.15	
6000.00	0.700	104.600	5621.40	1807.11	1223.90	-1329.57	0.39	
6088.00	0.900	91.900	5709.39	1806.11	1223.74	-1328.36	0.30	
6178.00	0.800	103.200	5799.38	1805.02	1223.58	-1327.04	0.22	
6267.00	0.800	94.400	5888.37	1803.99	1223.39	-1325.82	0.14	
6357.00	0.900	108.400	5978.36	1802.85	1223.12	-1324.52	0.26	
6446.00	0.900	107.700	6067.35	1801.57	1222.68	-1323.19	0.01	
6537.00	1.400	115.800	6158.33	1799.86	1221.98	-1321.51	0.58	
6627.00	2.600	136.200	6248.28	1796.77	1220.03	-1319.11	1.53	
6717.00	2.300	140.400	6338.19	1792.94	1217.17	-1316.54	0.39	
6806.00	0.400	337.300	6427.17	1791.46	1216.08	-1315.53	3.02	
6895.00	0.900	337.700	6516.17	1792.37	1217.01	-1315.91	0.56	
6983.00	1.000	338.700	6604.15	1793.68	1218.36	-1316.45	0.12	
7074.00	0.800	333.400	6695.14	1794.99	1219.67	-1317.02	0.24	
7165.00	0.900	324.600	6786.13	1796.28	1220.82	-1317.72	0.18	
7253.00	0.800	322.200	6874.12	1797.56	1221.87	-1318.50	0.12	
7342.00	0.700	315.900	6963.12	1798.72	1222.75	-1319.26	0.15	
7430.00	0.400	310.900	7051.11	1799.56	1223.34	-1319.87	0.34	
7519.00	0.300	337.300	7140.11	1800.08	1223.76	-1320.19	0.21	
7611.00	0.300	335.200	7232.11	1800.52	1224.20	-1320.38	0.01	LAST BHI MWD SURVEY
7665.00	0.220	339.074	7286.11	1800.75	1224.42	-1320.48	0.15	PROJECTION TO BIT

HOLE & CASING SECTIONS Ref Wellbore: Pioneer 10-2 AWB Ref Wellpath: Pioneer 10-2 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	867.00	850.00	17.00	853.82	0.00	0.00	79.85	-85.86
8.625in Casing Surface	17.00	867.00	850.00	17.00	853.82	0.00	0.00	79.85	-85.86
7.875in Open Hole	867.00	7665.00	6798.00	853.82	7286.11	79.85	-85.86	1224.42	-1320.48



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TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
Pioneer 10-2 Geo Target 50' Radius 1900'FSL & 1960'FEL, REV-1		6000.00	1216.79	-1333.15	3243559.68	1304386.25	40°09'56.340"N	104°37'42.564"W	circle
Pioneer 10-2 Legal Box 274'N-126'S-151'E-249'W of Geo Target		6000.00	1290.79	-1382.15	3243509.95	1304459.76	40°09'57.071"N	104°37'43.195"W	square

WELLPATH COMPOSITION Ref Wellbore: Pioneer 10-2 AWB Ref Wellpath: Pioneer 10-2 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.00	804.00	MTC (Collar, post-2000) (Standard)	BHI MWD/MTC-POST-2000 12.25"HOLE <145-804>	Pioneer 10-2 AWB
804.00	7611.00	MTC (Collar, post-2000) (Standard)	BHI MWD/MTC-POST-2000 7.875"HOLE <878-7611>	Pioneer 10-2 AWB
7611.00	7665.00	Blind Drilling (std)	Projection to bit	Pioneer 10-2 AWB



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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
7611.00	0.300	335.200	7232.11	LAST BHI MWD SURVEY
7665.00	0.220	339.074	7286.11	PROJECTION TO BIT