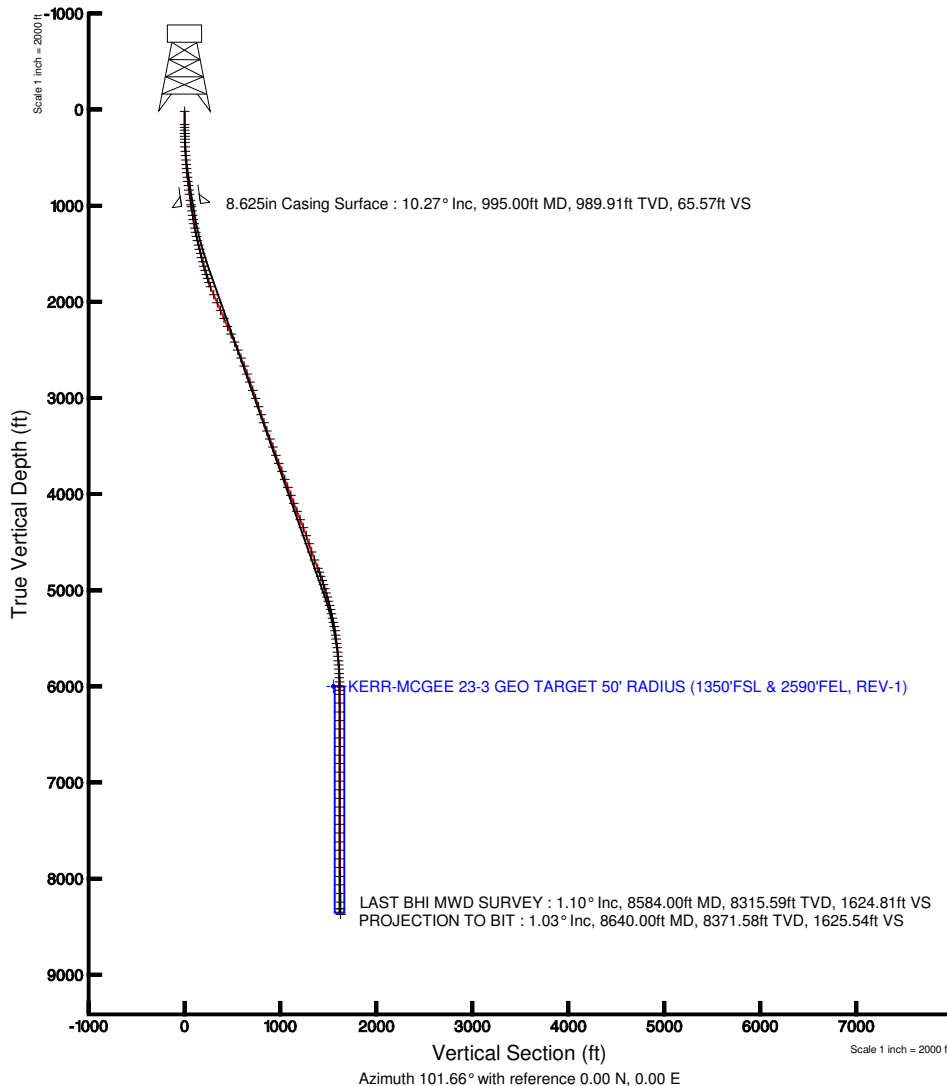
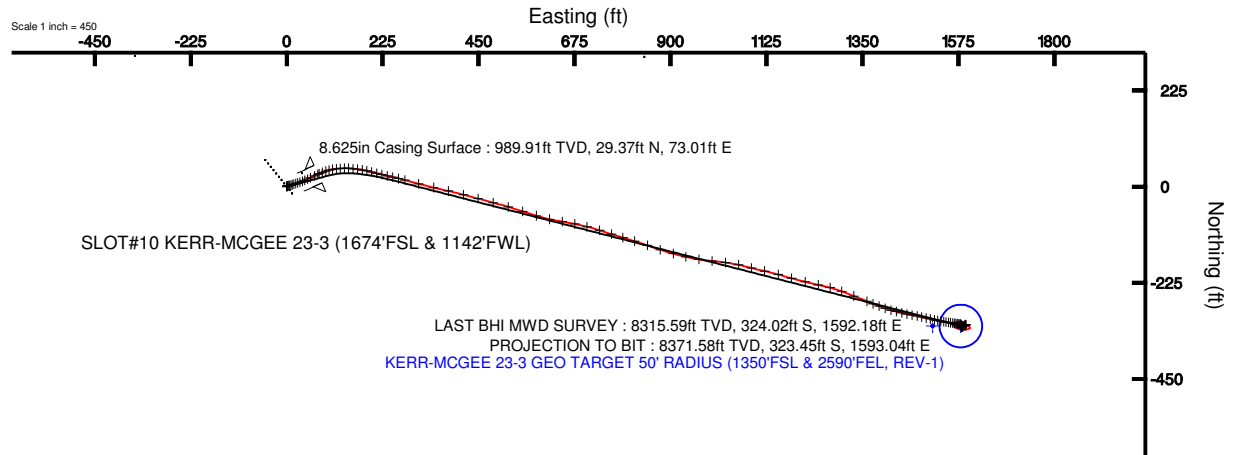


# KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#10 KERR-MCGEE 23-3 (1674'FSL & 1142'FWL)  
 Field: WELD COUNTY (KERR MCGEE) Well: KERR-MCGEE 23-3  
 Facility: SEC.03-T1N-R68W Wellbore: KERR-MCGEE 23-3 PWB



Plot reference wellpath is KERR-MCGEE 23-3 (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: 5059 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: SEC.03-T1N-R68W): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: bensjaj on 8/5/2010



BGGM (1945.0 to 2012.0) Dip: 66.80° Field: 53064.1 nT  
 Magnetic North is 9.06 degrees East of True North (at 6/25/2010)

To correct azimuth from Magnetic to True add 9.06 degrees  
 For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 9.06 = 99.06



# Actual Wellpath Report

KERR-MCGEE 23-3 AWP

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INTEQ

## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 KERR-MCGEE 23-3 (1674'FSL & 1142'FWL)
Area	COLORADO	Well	KERR-MCGEE 23-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	KERR-MCGEE 23-3 AWB
Facility	SEC.03-T1N-R68W		

## REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet	Software System	WellArchitect® 2.0
North Reference	True	User	Bensjacj
Scale	0.999961	Report Generated	8/5/2010 at 1:50:24 PM
Convergence at slot	0.33° East	Database/Source file	WA_Denver/KERR-MCGEE_23-3_AWB.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	-31.69	-35.54	3141355.78	1271525.60	40°04'39.443"N	104°59'41.485"W
Facility Reference Pt			3141391.14	1271557.49	40°04'39.756"N	104°59'41.028"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	5059.00ft
Horizontal Reference Pt	Slot	XTREME 8 (RT) to Mean Sea Level	5059.00ft
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	101.66°



# Actual Wellpath Report

KERR-MCGEE 23-3 AWP

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INTEQ

## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 KERR-MCGEE 23-3 (1674'FSL & 1142'FWL)
Area	COLORADO	Well	KERR-MCGEE 23-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	KERR-MCGEE 23-3 AWB
Facility	SEC.03-T1N-R68W		

## WELLPATH DATA (133 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	343.800	0.00	0.00	0.00	0.00	0.00	
17.00	0.000	343.800	17.00	0.00	0.00	0.00	0.00	
152.00	0.600	343.800	152.00	-0.33	0.68	-0.20	0.44	
183.00	0.700	8.400	183.00	-0.42	1.02	-0.21	0.95	
214.00	0.800	68.500	213.99	-0.25	1.29	0.01	2.44	
245.00	1.000	60.400	244.99	0.14	1.50	0.45	0.76	
276.00	1.200	68.100	275.98	0.61	1.76	0.99	0.80	
307.00	1.400	65.300	306.98	1.19	2.04	1.63	0.68	
338.00	1.900	72.700	337.96	1.94	2.35	2.47	1.75	
386.00	2.600	79.700	385.93	3.65	2.78	4.30	1.56	
431.00	3.400	74.800	430.86	5.78	3.31	6.59	1.87	
477.00	4.200	76.500	476.76	8.53	4.06	9.54	1.76	
523.00	4.600	74.500	522.63	11.69	4.95	12.96	0.93	
568.00	5.400	74.100	567.46	15.17	6.01	16.74	1.78	
612.00	5.900	72.000	611.24	18.98	7.28	20.88	1.23	
658.00	6.700	72.700	656.96	23.38	8.80	25.69	1.75	
702.00	7.500	69.900	700.63	28.07	10.55	30.84	1.98	
747.00	7.800	67.800	745.22	33.10	12.72	36.42	0.91	
792.00	8.200	67.800	789.79	38.30	15.08	42.22	0.89	
838.00	9.100	64.300	835.26	43.91	17.90	48.53	2.27	
883.00	9.800	63.600	879.65	49.76	21.15	55.17	1.58	
945.00	10.200	65.700	940.71	58.36	25.75	64.90	0.87	
1014.00	10.300	66.400	1008.61	68.34	30.74	76.12	0.23	
1059.00	10.400	67.100	1052.88	74.97	33.93	83.55	0.36	
1104.00	10.600	72.700	1097.12	81.93	36.74	91.24	2.31	
1150.00	10.600	74.800	1142.34	89.41	39.11	99.37	0.84	
1195.00	10.800	80.400	1186.56	97.03	40.89	107.52	2.35	
1240.00	11.400	83.300	1230.72	105.18	42.12	116.09	1.82	
1285.00	12.000	86.100	1274.78	113.91	42.95	125.18	1.84	
1330.00	12.700	88.500	1318.74	123.23	43.40	134.79	1.93	
1375.00	13.100	93.400	1362.61	133.10	43.23	144.82	2.59	
1421.00	13.600	96.300	1407.36	143.64	42.33	155.40	1.82	
1466.00	13.900	98.400	1451.07	154.30	40.96	166.01	1.29	
1512.00	14.100	98.000	1495.71	165.41	39.37	177.02	0.48	
1557.00	14.400	101.900	1539.32	176.48	37.45	187.93	2.23	
1602.00	15.100	104.700	1582.84	187.93	34.81	199.07	2.22	
1647.00	15.700	105.000	1626.23	199.86	31.75	210.62	1.35	
1693.00	16.500	102.900	1670.42	212.60	28.68	223.00	2.15	
1738.00	16.900	103.600	1713.52	225.53	25.71	235.59	0.99	
1782.00	17.800	104.000	1755.52	238.64	22.58	248.33	2.06	
1827.00	18.900	103.600	1798.23	252.80	19.20	262.09	2.46	
1872.00	20.300	104.000	1840.62	267.88	15.60	276.75	3.13	
1963.00	23.400	105.400	1925.08	301.69	6.98	309.49	3.45	
2052.00	24.200	103.300	2006.51	337.56	-1.91	344.29	1.31	
2141.00	23.500	102.900	2087.91	373.54	-10.07	379.34	0.81	



# Actual Wellpath Report

KERR-MCGEE 23-3 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 KERR-MCGEE 23-3 (1674'FSL & 1142'FWL)
Area	COLORADO	Well	KERR-MCGEE 23-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	KERR-MCGEE 23-3 AWB
Facility	SEC.03-T1N-R68W		

WELLPATH DATA (133 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
2232.00	23.200	105.000	2171.46	409.57	-18.76	414.33	0.97	
2321.00	23.900	104.700	2253.04	445.08	-27.87	448.71	0.80	
2410.00	24.400	105.000	2334.25	481.43	-37.20	483.90	0.58	
2500.00	23.800	106.400	2416.41	518.09	-47.14	519.28	0.92	
2590.00	22.400	108.200	2499.19	553.23	-57.62	552.99	1.74	
2681.00	21.300	107.200	2583.65	586.90	-67.93	585.25	1.28	
2771.00	20.700	102.200	2667.68	619.08	-76.12	616.42	2.10	
2860.00	19.400	99.400	2751.29	649.58	-81.86	646.38	1.82	
2949.00	19.400	101.900	2835.24	679.13	-87.32	675.43	0.93	
3038.00	19.600	102.600	2919.13	708.84	-93.63	704.46	0.35	
3128.00	20.100	109.600	3003.80	739.25	-102.11	733.76	2.70	
3218.00	18.100	106.400	3088.84	768.51	-111.25	761.75	2.51	
3307.00	18.500	106.800	3173.34	796.35	-119.23	788.53	0.47	
3395.00	19.800	107.200	3256.47	825.09	-127.67	816.13	1.48	
3486.00	20.700	109.000	3341.84	856.38	-137.47	846.06	1.20	
3576.00	20.700	108.200	3426.03	887.96	-147.61	876.21	0.31	
3667.00	20.000	106.000	3511.35	919.46	-156.93	906.45	1.14	
3756.00	20.200	102.600	3594.94	950.00	-164.47	936.08	1.33	
3845.00	20.600	98.400	3678.36	981.00	-170.11	966.56	1.70	
3935.00	20.300	96.000	3762.69	1012.34	-174.06	997.75	0.99	
4025.00	20.800	97.000	3846.96	1043.80	-177.64	1029.14	0.68	
4114.00	20.000	103.000	3930.39	1074.77	-182.99	1059.66	2.51	
4203.00	20.700	104.300	4013.83	1105.70	-190.30	1089.73	0.94	
4292.00	21.700	102.200	4096.81	1137.87	-197.66	1121.06	1.41	
4382.00	21.000	106.400	4180.64	1170.58	-205.73	1152.79	1.87	
4472.00	21.500	105.000	4264.52	1203.12	-214.55	1184.19	0.79	
4562.00	21.400	104.000	4348.29	1235.99	-222.79	1216.06	0.42	
4652.00	19.300	102.200	4432.67	1267.27	-229.91	1246.53	2.43	
4741.00	18.200	104.700	4516.94	1295.86	-236.54	1274.35	1.53	
4831.00	19.200	110.700	4602.20	1324.51	-245.34	1301.79	2.41	
4921.00	20.700	110.700	4686.79	1354.84	-256.20	1330.52	1.67	
5012.00	21.500	113.100	4771.69	1387.07	-268.42	1360.90	1.29	
5056.00	20.700	111.000	4812.74	1402.65	-274.38	1375.58	2.50	
5101.00	19.200	111.000	4855.04	1417.80	-279.88	1389.91	3.33	
5147.00	18.500	109.300	4898.58	1432.49	-285.00	1403.86	1.93	
5192.00	18.000	106.000	4941.31	1446.50	-289.28	1417.29	2.55	
5237.00	17.000	104.000	4984.23	1460.01	-292.78	1430.35	2.59	
5282.00	16.000	102.000	5027.38	1472.78	-295.67	1442.80	2.56	
5328.00	15.800	101.500	5071.62	1485.39	-298.23	1455.14	0.53	
5373.00	15.600	100.500	5114.94	1497.56	-300.56	1467.09	0.75	
5418.00	14.700	100.800	5158.37	1509.32	-302.73	1478.65	2.01	
5463.00	13.900	104.700	5201.98	1520.43	-305.17	1489.49	2.78	
5509.00	13.700	103.300	5246.65	1531.39	-307.83	1500.13	0.85	
5554.00	12.400	102.900	5290.49	1541.55	-310.13	1510.03	2.90	
5599.00	11.300	101.500	5334.53	1550.79	-312.09	1519.06	2.53	



# Actual Wellpath Report

KERR-MCGEE 23-3 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 KERR-MCGEE 23-3 (1674'FSL & 1142'FWL)
Area	COLORADO	Well	KERR-MCGEE 23-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	KERR-MCGEE 23-3 AWP
Facility	SEC.03-T1N-R68W		

WELLPATH DATA (133 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5643.00	9.900	101.200	5377.78	1558.88	-313.68	1526.99	3.18	
5688.00	9.100	100.500	5422.16	1566.31	-315.08	1534.29	1.80	
5733.00	8.100	100.500	5466.65	1573.03	-316.31	1540.90	2.22	
5776.00	7.400	99.100	5509.26	1578.83	-317.30	1546.62	1.69	
5822.00	6.600	99.800	5554.92	1584.43	-318.22	1552.15	1.75	
5867.00	6.300	97.300	5599.63	1589.48	-318.97	1557.14	0.91	
5912.00	6.000	98.000	5644.37	1594.29	-319.61	1561.92	0.69	
5957.00	5.100	97.000	5689.16	1598.63	-320.18	1566.24	2.01	
6001.00	4.000	97.000	5733.02	1602.11	-320.61	1569.70	2.50	
6046.00	3.400	100.800	5777.93	1605.00	-321.05	1572.57	1.44	
6091.00	3.200	100.800	5822.85	1607.59	-321.54	1575.11	0.44	
6135.00	2.900	97.000	5866.79	1609.93	-321.90	1577.43	0.82	
6178.00	1.900	108.900	5909.75	1611.72	-322.26	1579.18	2.59	
6223.00	1.300	145.000	5954.74	1612.83	-322.92	1580.18	2.54	
6267.00	1.100	135.620	5998.73	1613.55	-323.63	1580.76	0.64	
6310.00	0.700	102.600	6041.72	1614.15	-323.99	1581.31	1.49	
6354.00	0.600	92.400	6085.72	1614.65	-324.06	1581.80	0.35	
6444.00	0.900	137.000	6175.71	1615.69	-324.59	1582.75	0.70	
6535.00	1.200	133.500	6266.70	1617.08	-325.77	1583.93	0.34	
6625.00	0.500	208.400	6356.69	1617.77	-326.76	1584.43	1.30	
6714.00	0.200	277.700	6445.69	1617.50	-327.09	1584.09	0.53	
6804.00	0.400	215.400	6535.69	1617.22	-327.32	1583.75	0.39	
6894.00	0.300	184.100	6625.68	1617.12	-327.81	1583.55	0.24	
6984.00	0.300	171.800	6715.68	1617.24	-328.28	1583.57	0.07	
7073.00	0.300	149.000	6804.68	1617.47	-328.71	1583.72	0.13	
7163.00	0.100	286.800	6894.68	1617.55	-328.89	1583.77	0.42	
7254.00	0.300	1.300	6985.68	1617.43	-328.63	1583.70	0.32	
7344.00	0.100	167.600	7075.68	1617.42	-328.47	1583.72	0.44	
7435.00	0.200	310.400	7166.68	1617.32	-328.44	1583.61	0.31	
7525.00	0.500	244.000	7256.68	1616.87	-328.51	1583.14	0.51	
7616.00	0.400	263.200	7347.68	1616.25	-328.73	1582.47	0.20	
7706.00	0.500	154.300	7437.68	1616.19	-329.12	1582.33	0.82	
7796.00	0.300	30.200	7527.67	1616.50	-329.27	1582.62	0.79	
7887.00	0.400	73.000	7618.67	1616.86	-328.97	1583.04	0.30	
7975.00	0.500	49.100	7706.67	1617.36	-328.63	1583.62	0.24	
8066.00	0.700	70.600	7797.67	1618.08	-328.18	1584.45	0.33	
8156.00	0.900	39.700	7887.66	1618.88	-327.46	1585.42	0.52	
8247.00	0.900	61.100	7978.65	1619.76	-326.56	1586.50	0.37	
8336.00	1.400	67.400	8067.63	1621.19	-325.81	1588.12	0.58	
8426.00	1.100	65.700	8157.61	1622.80	-325.03	1589.92	0.34	
8516.00	0.700	72.000	8247.59	1623.98	-324.50	1591.23	0.46	
8584.00	1.100	57.600	8315.59	1624.81	-324.02	1592.18	0.67	LAST BHI MWD SURVEY
8640.00	1.032	55.387	8371.58	1625.54	-323.45	1593.04	0.14	PROJECTION TO BIT



# Actual Wellpath Report

KERR-MCGEE 23-3 AWP

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INTEQ

## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 KERR-MCGEE 23-3 (1674'FSL & 1142'FWL)
Area	COLORADO	Well	KERR-MCGEE 23-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	KERR-MCGEE 23-3 AWB
Facility	SEC.03-T1N-R68W		

## HOLE & CASING SECTIONS Ref Wellbore: KERR-MCGEE 23-3 AWB Ref Wellpath: KERR-MCGEE 23-3 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	1008.00	991.00	17.00	1002.71	0.00	0.00	30.31	75.14
8.625in Casing Surface	17.00	995.00	978.00	17.00	989.91	0.00	0.00	29.37	73.01
7.875in Open Hole	995.00	8640.00	7645.00	989.91	8371.58	29.37	73.01	-323.45	1593.04

## TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
KERR-MCGEE 23-3 GEO TARGET 50' RADIUS (1350'FSL & 2590'FEL, REV-1)		6000.00	-326.36	1581.15	3142938.70	1271208.27	40°04'36.217"N	104°59'21.145"W	circle
KERR-MCGEE 23-3 HARDLINE 66'W OF GEO TARGET		6000.00	-326.26	1515.15	3142872.71	1271207.99	40°04'36.218"N	104°59'21.994"W	point

## WELLPATH COMPOSITION Ref Wellbore: KERR-MCGEE 23-3 AWB Ref Wellpath: KERR-MCGEE 23-3 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.00	945.00	NaviTrak (Standard)	BHI MWD 12.25" HOLE <152-945>	KERR-MCGEE 23-3 AWB
945.00	8584.00	NaviTrak (Standard)	BHI MWD 7.875" HOLE <1014-8584>	KERR-MCGEE 23-3 AWB
8584.00	8640.00	Blind Drilling (std)	Projection to bit	KERR-MCGEE 23-3 AWB



# Actual Wellpath Report

KERR-MCGEE 23-3 AWP

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**INTEQ**

## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#10 KERR-MCGEE 23-3 (1674'FSL & 1142'FWL)
Area	COLORADO	Well	KERR-MCGEE 23-3
Field	WELD COUNTY (KERR MCGEE)	Wellbore	KERR-MCGEE 23-3 AWB
Facility	SEC.03-T1N-R68W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8584.00	1.100	57.600	8315.59	LAST BHI MWD SURVEY
8640.00	1.032	55.387	8371.58	PROJECTION TO BIT