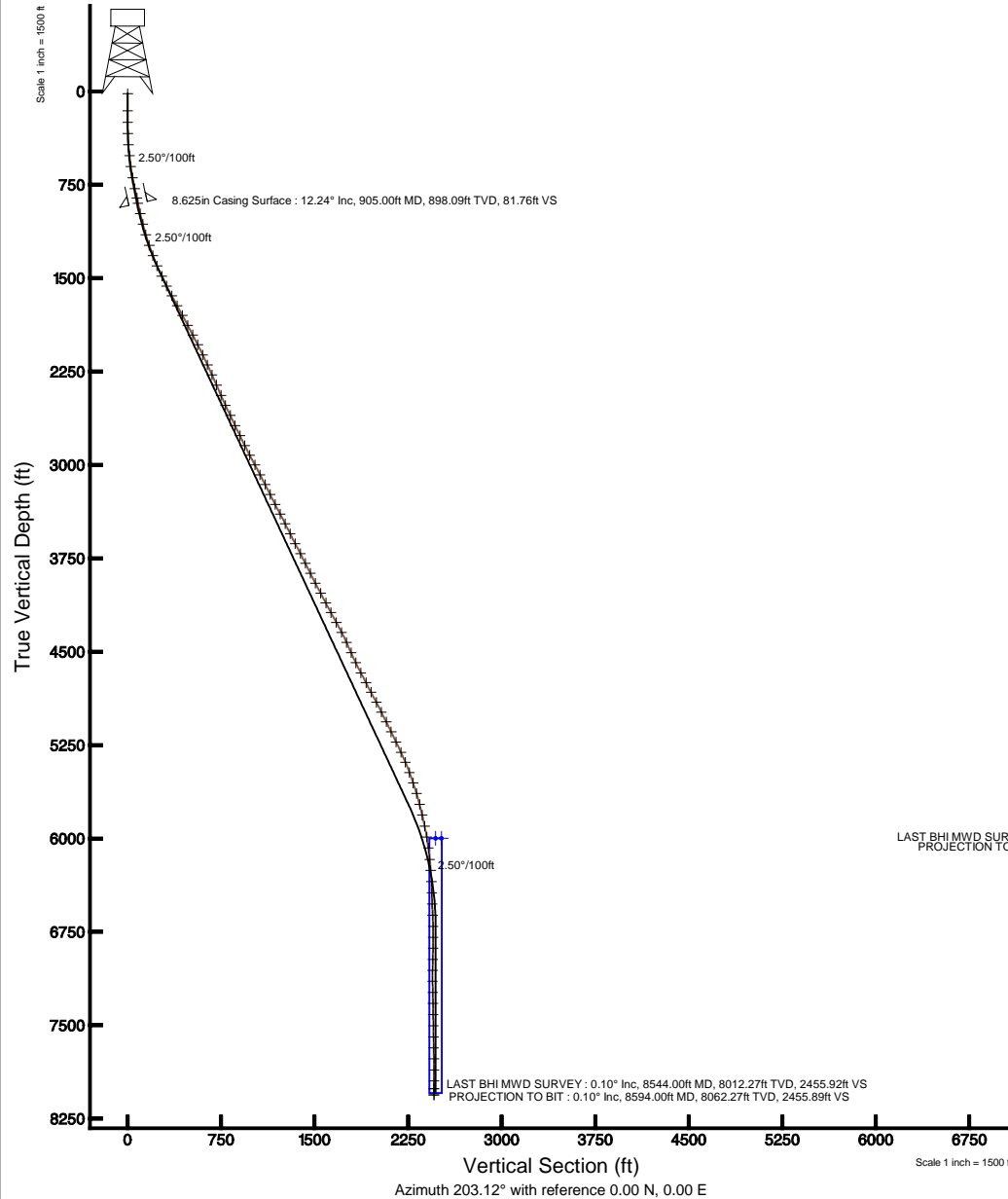
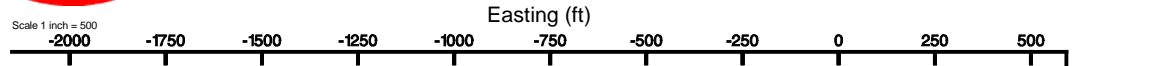


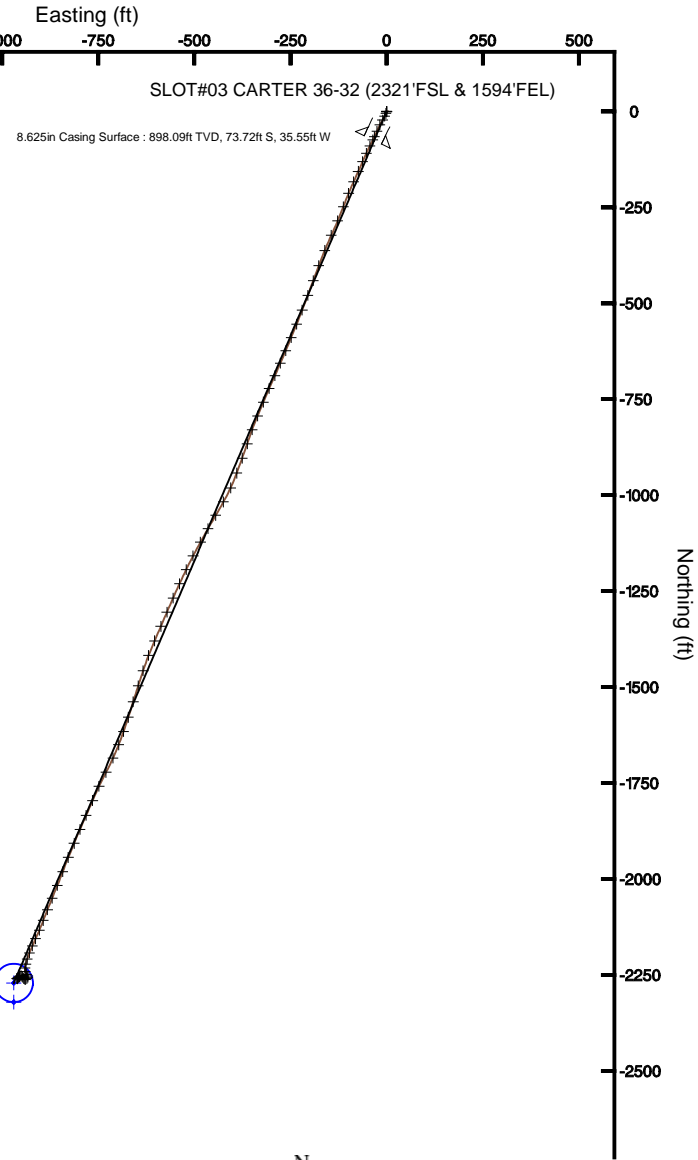
KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#03 CARTER 36-32 (2321'FSL & 1594'FEL)
 Field: WELD COUNTY (KERR MCGEE) Well: CARTER 36-32
 Facility: SEC.32-T2N-R66W Wellbore: CARTER 36-32 PWB

Plot reference wellpath is CARTER 36-32 (REV-A-1) PWP	
True vertical depths are referenced to XTREME 6 (RKB)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (801), US feet
Measured depths are referenced to XTREME 6 (RKB)	North Reference: True north
XTREME 6 (RKB) to Mean Sea Level: 4928 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#03 CARTER 36-32 (2321'FSL & 1594'FEL)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: panser on 7/20/2011



LAST BHI MWD SURVEY : 8012.27ft TVD, 2260.15ft S, 960.85ft W
 PROJECTION TO BIT : 8062.27ft TVD, 2260.17ft S, 960.76ft W



BGGM (1945.0 to 2012.0) Dip: 66.81° Field: 52986.4 nT
 Magnetic North is 8.82 degrees East of True North (at 5/26/2011)

To correct azimuth from Magnetic to True add 8.82 degrees
 For example: if the Magnetic North Azimuth = 90 degs, then the True North Azimuth = 90 + 8.82 = 98.82



Actual Wellpath Report

CARTER 36-32 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 CARTER 36-32 (2321'FSL & 1594'FEL)
Area	COLORADO	Well	CARTER 36-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 36-32 AWB
Facility	SEC.32-T2N-R66W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 3.0.0
North Reference	True	User	Painsetr
Scale	0.999961	Report Generated	7/20/2011 at 3:07:23 PM
Convergence at slot	0.45° East	Database/Source file	WA_Denver/CARTER_36-32_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-0.28	19.80	3196589.35	1277768.23	40°05'37.417"N	104°47'50.305"W
Facility Reference Pt			3196569.55	1277768.35	40°05'37.420"N	104°47'50.560"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 6 (RKB) to Facility Vertical Datum	4928.00ft
Horizontal Reference Pt	Slot	XTREME 6 (RKB) to Mean Sea Level	4928.00ft
Vertical Reference Pt	XTREME 6 (RKB)	XTREME 6 (RKB) to Mud Line at Slot (SLOT#03 CARTER 36-32 (2321'FSL & 1594'FEL))	4928.00ft
MD Reference Pt	XTREME 6 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	203.12°



Actual Wellpath Report

CARTER 36-32 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 CARTER 36-32 (2321'FSL & 1594'FEL)
Area	COLORADO	Well	CARTER 36-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 36-32 AWB
Facility	SEC.32-T2N-R66W		

WELLPATH DATA (98 stations) † = interpolated/extrapolated station								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	41.900	0.00	0.00	0.00	0.00	0.00	
16.00	0.000	41.900	16.00	0.00	0.00	0.00	0.00	
155.00	0.400	41.900	155.00	-0.46	0.36	0.32	0.29	
246.00	0.400	41.500	246.00	-1.06	0.84	0.75	0.00	
336.00	1.900	193.400	335.98	0.11	-0.38	0.61	2.51	
427.00	4.200	206.800	426.85	4.92	-4.82	-1.24	2.63	
515.00	6.200	207.500	514.48	12.88	-11.92	-4.89	2.27	
604.00	8.100	209.200	602.79	23.91	-21.65	-10.17	2.15	
694.00	10.800	206.700	691.56	38.63	-34.72	-17.05	3.03	
785.00	12.100	205.000	780.74	56.67	-50.98	-24.91	1.48	
861.00	12.000	205.000	855.07	72.53	-65.36	-31.62	0.13	
988.00	12.700	206.100	979.13	99.67	-89.87	-43.34	0.58	
1076.00	14.700	204.700	1064.62	120.49	-108.70	-52.26	2.30	
1165.00	16.800	204.000	1150.28	144.64	-130.71	-62.21	2.37	
1255.00	18.900	204.000	1235.94	172.22	-155.91	-73.43	2.33	
1343.00	20.700	204.000	1318.73	202.03	-183.14	-85.56	2.05	
1431.00	23.000	202.600	1400.41	234.78	-213.23	-98.49	2.68	
1522.00	25.900	201.100	1483.24	272.42	-248.19	-112.48	3.26	
1610.00	26.900	202.600	1562.06	311.54	-284.50	-127.05	1.37	
1699.00	28.500	204.300	1640.86	352.90	-322.44	-143.53	2.00	
1789.00	28.500	202.200	1719.95	395.84	-361.89	-160.48	1.11	
1879.00	28.200	200.400	1799.16	438.55	-401.71	-176.00	1.01	
1968.00	28.000	200.400	1877.67	480.43	-441.00	-190.62	0.22	
2055.00	27.300	200.400	1954.73	520.75	-478.84	-204.69	0.80	
2145.00	27.300	200.800	2034.71	561.99	-517.48	-219.21	0.20	
2235.00	25.000	202.600	2115.49	601.64	-554.33	-233.85	2.70	
2324.00	25.100	201.900	2196.12	639.32	-589.21	-248.12	0.35	
2413.00	24.100	202.900	2277.04	676.36	-623.47	-262.23	1.22	
2501.00	23.200	203.600	2357.65	711.66	-655.90	-276.16	1.07	
2591.00	23.500	204.300	2440.28	747.33	-688.50	-290.65	0.45	



Actual Wellpath Report

CARTER 36-32 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 CARTER 36-32 (2321'FSL & 1594'FEL)
Area	COLORADO	Well	CARTER 36-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 36-32 AWB
Facility	SEC.32-T2N-R66W		

WELLPATH DATA (98 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
2680.00	25.100	203.600	2521.39	783.95	-721.97	-305.51	1.83	
2770.00	25.300	202.200	2602.83	822.26	-757.27	-320.41	0.70	
2861.00	25.800	202.900	2684.93	861.51	-793.52	-335.47	0.64	
2950.00	25.800	199.700	2765.06	900.21	-829.59	-349.53	1.56	
3038.00	26.500	199.000	2844.05	938.91	-866.19	-362.38	0.87	
3125.00	27.300	200.100	2921.64	978.19	-903.28	-375.56	1.08	
3214.00	28.500	199.700	3000.29	1019.77	-942.44	-389.73	1.36	
3303.00	27.300	205.400	3078.96	1061.37	-980.87	-405.64	3.28	
3392.00	27.600	208.500	3157.95	1102.29	-1017.43	-424.24	1.64	
3481.00	26.300	210.600	3237.28	1142.37	-1052.52	-444.11	1.81	
3570.00	27.100	209.900	3316.79	1182.05	-1087.07	-464.26	0.97	
3658.00	27.900	208.200	3394.85	1222.46	-1122.59	-483.98	1.27	
3746.00	26.900	208.200	3472.98	1262.80	-1158.28	-503.11	1.14	
3835.00	26.800	205.400	3552.38	1302.91	-1194.15	-521.23	1.43	
3925.00	27.000	205.000	3632.65	1343.60	-1230.99	-538.57	0.30	
4015.00	27.200	203.600	3712.77	1384.59	-1268.36	-555.44	0.74	
4103.00	26.900	203.300	3791.14	1424.60	-1305.07	-571.37	0.37	
4192.00	26.700	202.900	3870.58	1464.73	-1341.98	-587.11	0.30	
4282.00	27.300	203.300	3950.77	1505.59	-1379.56	-603.14	0.70	
4371.00	27.900	201.500	4029.64	1546.82	-1417.68	-618.85	1.15	
4461.00	28.000	198.000	4109.15	1588.91	-1457.37	-633.09	1.83	
4549.00	28.500	197.600	4186.67	1630.38	-1497.03	-645.83	0.61	
4639.00	29.000	197.600	4265.57	1673.47	-1538.29	-658.92	0.56	
4729.00	27.400	197.300	4344.89	1715.79	-1578.86	-671.67	1.78	
4820.00	24.000	199.700	4426.88	1755.11	-1616.29	-684.14	3.91	
4910.00	24.000	201.500	4509.10	1791.67	-1650.55	-697.02	0.81	
4999.00	26.300	204.000	4589.66	1829.49	-1685.41	-711.67	2.85	
5090.00	27.300	207.800	4670.89	1870.45	-1722.29	-729.61	2.18	
5179.00	27.600	205.400	4749.87	1911.39	-1758.97	-747.97	1.29	
5266.00	27.900	203.300	4826.86	1951.88	-1795.87	-764.67	1.18	



Actual Wellpath Report

CARTER 36-32 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 CARTER 36-32 (2321'FSL & 1594'FEL)
Area	COLORADO	Well	CARTER 36-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 36-32 AWB
Facility	SEC.32-T2N-R66W		

WELLPATH DATA (98 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5357.00	27.800	204.000	4907.32	1994.39	-1834.81	-781.72	0.38	
5445.00	26.000	202.900	4985.80	2034.20	-1871.33	-797.57	2.12	
5533.00	27.000	202.600	5064.55	2073.47	-1907.54	-812.76	1.15	
5623.00	25.400	202.200	5145.30	2113.20	-1944.27	-827.90	1.79	
5714.00	26.200	200.100	5227.23	2152.78	-1981.21	-842.18	1.33	
5804.00	24.900	202.900	5308.43	2191.56	-2017.32	-856.38	1.97	
5893.00	22.900	201.500	5389.80	2227.61	-2050.70	-870.02	2.34	
5981.00	20.500	201.900	5471.56	2260.14	-2080.93	-882.04	2.73	
6070.00	18.500	201.100	5555.45	2289.83	-2108.56	-892.94	2.27	
6159.00	17.000	203.600	5640.21	2316.96	-2133.66	-903.23	1.89	
6250.00	14.200	203.600	5727.85	2341.43	-2156.08	-913.03	3.08	
6338.00	13.100	203.600	5813.36	2362.19	-2175.11	-921.34	1.25	
6429.00	11.800	201.900	5902.22	2381.81	-2193.20	-928.94	1.48	
6518.00	9.900	197.300	5989.63	2398.52	-2208.95	-934.61	2.34	
6608.00	7.700	195.500	6078.56	2412.19	-2222.15	-938.53	2.46	
6699.00	6.000	185.000	6168.91	2422.76	-2232.76	-940.57	2.31	
6789.00	5.400	162.800	6258.48	2430.46	-2241.49	-939.73	2.52	
6879.00	4.900	146.700	6348.12	2435.81	-2248.75	-936.36	1.69	
6968.00	2.100	149.100	6436.94	2438.87	-2253.33	-933.44	3.15	
7058.00	2.300	204.000	6526.89	2441.65	-2256.39	-933.33	2.26	
7149.00	3.300	224.700	6617.78	2445.91	-2259.92	-935.91	1.55	
7239.00	1.900	252.500	6707.69	2449.29	-2262.21	-939.16	2.05	
7326.00	2.000	301.300	6794.64	2450.01	-2261.86	-941.83	1.85	
7415.00	2.200	324.900	6883.59	2448.89	-2259.65	-944.14	0.99	
7504.00	2.200	322.400	6972.52	2447.16	-2256.90	-946.16	0.11	
7592.00	2.400	316.500	7060.45	2445.60	-2254.23	-948.46	0.35	
7681.00	1.400	270.100	7149.40	2445.29	-2252.87	-950.83	1.97	
7770.00	1.400	237.700	7238.38	2446.61	-2253.45	-952.84	0.88	
7858.00	1.200	236.000	7326.36	2448.27	-2254.54	-954.51	0.23	
7949.00	1.200	223.300	7417.34	2449.96	-2255.77	-955.96	0.29	



Actual Wellpath Report

CARTER 36-32 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 CARTER 36-32 (2321'FSL & 1594'FEL)
Area	COLORADO	Well	CARTER 36-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 36-32 AWB
Facility	SEC.32-T2N-R66W		

WELLPATH DATA (98 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
8037.00	1.100	233.800	7505.32	2451.55	-2256.94	-957.27	0.26	
8128.00	1.200	228.600	7596.30	2453.16	-2258.09	-958.69	0.16	
8217.00	1.000	222.600	7685.28	2454.74	-2259.27	-959.91	0.26	
8304.00	0.500	220.500	7772.28	2455.81	-2260.12	-960.67	0.58	
8393.00	0.100	293.600	7861.28	2456.18	-2260.38	-961.00	0.54	
8481.00	0.200	38.000	7949.28	2456.04	-2260.23	-960.97	0.28	
8544.00	0.100	98.500	8012.27	2455.92	-2260.15	-960.85	0.28	LAST BHI MWD SURVEY
8594.00	0.100	98.500	8062.27	2455.89	-2260.17	-960.76	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS - Ref Wellbore: CARTER 36-32 AWB Ref Wellpath: CARTER 36-32 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]
8.625in Casing Surface	16.00	905.00	889.00	16.00	898.09	0.00	0.00	-73.72	-35.55



Actual Wellpath Report

CARTER 36-32 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 CARTER 36-32 (2321'FSL & 1594'FEL)
Area	COLORADO	Well	CARTER 36-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 36-32 AWB
Facility	SEC.32-T2N-R66W		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
CARTER 36-32 GEO TARGET 50' RADIUS (50'FSL & 2570'FEL, REV-1)		6000.00	-2271.37	-969.82	3195637.60	1275489.34	40°05'14.971"N	104°48'02.783"W	circle
CARTER 36-32 HARDLINE 50'S OF GEO TARGET		6000.00	-2321.35	-969.81	3195638.01	1275439.36	40°05'14.477"N	104°48'02.783"W	point

WELLPATH COMPOSITION - Ref Wellbore: CARTER 36-32 AWB Ref Wellpath: CARTER 36-32 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	861.00	NaviTrak (Standard)	BHI MWD SURVEYS 12 1/4 HOLE<155-861>	CARTER 36-32 AWB
861.00	8544.00	NaviTrak (Standard)	BHI MWD SURVEYS 7 7/8 HOLE<988-8544>	CARTER 36-32 AWB
8544.00	8594.00	Blind Drilling (std)	Projection to bit	CARTER 36-32 AWB



Actual Wellpath Report

CARTER 36-32 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 CARTER 36-32 (2321'FSL & 1594'FEL)
Area	COLORADO	Well	CARTER 36-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 36-32 AWB
Facility	SEC.32-T2N-R66W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8544.00	0.100	98.500	8012.27	LAST BHI MWD SURVEY
8594.00	0.100	98.500	8062.27	PROJECTION TO BIT