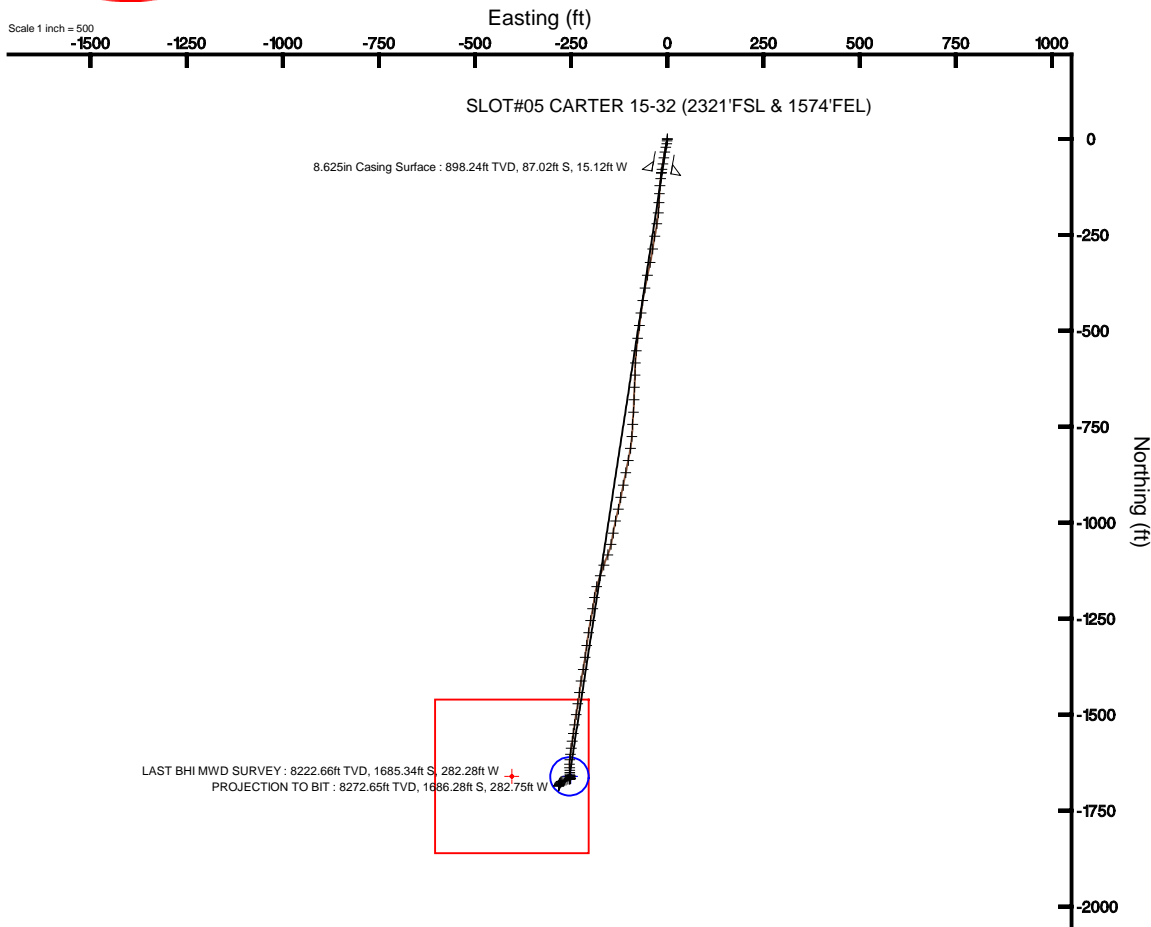
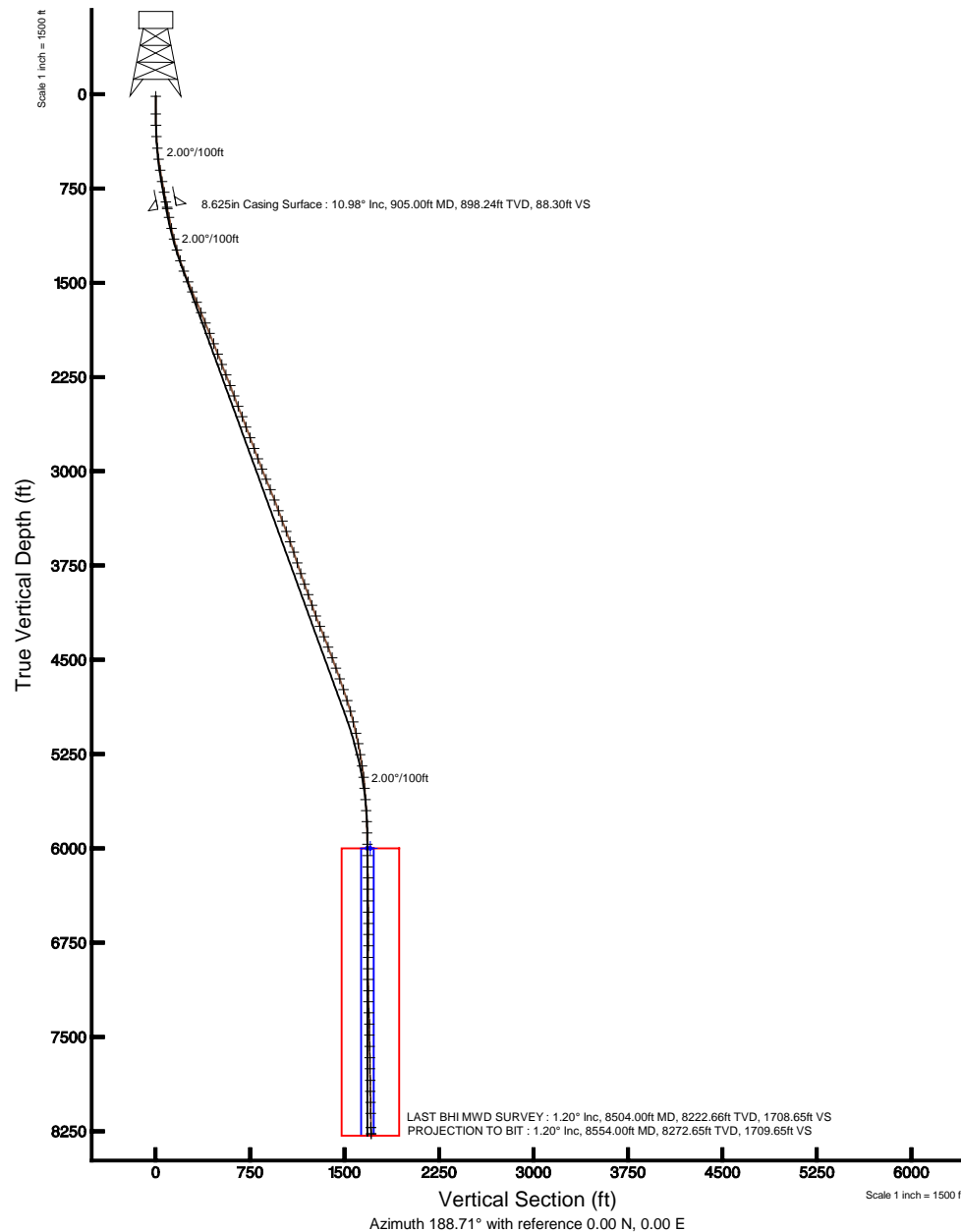


KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#05 CARTER 15-32 (2321'FSL & 1574'FEL)
 Field: WELD COUNTY (KERR MCGEE) Well: CARTER 15-32
 Facility: SEC.32-T2N-R66W Wellbore: CARTER 15-32 PWB

Plot reference wellpath is CARTER 15-32 (REV-A.1) PWB	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to XTREME 6 (RKB)	North Reference: True north
Measured depths are referenced to XTREME 6 (RKB)	Scale: True distance
XTREME 6 (RKB) to Mean Sea Level: 4928 feet	Depths are in feet
Mean Sea Level to Mud line (At Slot: SLOT#05 CARTER 15-32 (2321'FSL & 1574'FEL)): 0 feet	Created by: painsetr on 7/20/2011
Coordinates are in feet referenced to Slot	



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 15-32 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 CARTER 15-32 (2321'FSL & 1574'FEL)
Area	COLORADO	Well	CARTER 15-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 15-32 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 2:04:18 PM
Convergence at slot	0.45° East	Database/Source file	WA_Denver/CARTER_15-32_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.08	39.95	3196609.49	1277768.75	40°05'37.421"N	104°47'50.046"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#05 CARTER 15-32 (2321'FSL & 1574'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	188.71°



Actual Wellpath Report

CARTER 15-32 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 CARTER 15-32 (2321'FSL & 1574'FEL)
Area	COLORADO	Well	CARTER 15-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 15-32 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	13.400	0.00	0.00	0.00	0.00	0.00	
16.00	0.000	13.400	16.00	0.00	0.00	0.00	0.00	
155.00	0.400	13.400	155.00	-0.48	0.47	0.11	0.29	
246.00	1.600	181.500	245.99	0.46	-0.49	0.15	2.19	
336.00	3.600	188.800	335.89	4.53	-4.54	-0.31	2.25	
428.00	5.700	190.900	427.58	11.99	-11.88	-1.62	2.29	
516.00	7.300	191.700	515.02	21.94	-21.65	-3.58	1.82	
605.00	9.100	191.300	603.10	34.62	-34.09	-6.10	2.02	
696.00	10.100	189.200	692.83	49.78	-49.02	-8.79	1.16	
784.00	10.600	189.900	779.39	65.59	-64.61	-11.42	0.59	
861.00	10.900	189.200	855.04	79.95	-78.77	-13.80	0.42	
915.00	11.000	189.000	908.06	90.21	-88.90	-15.42	0.20	
988.00	11.800	186.400	979.62	104.63	-103.20	-17.34	1.30	
1076.00	12.700	185.000	1065.62	123.28	-121.78	-19.19	1.08	
1165.00	14.000	182.500	1152.21	143.74	-142.28	-20.51	1.60	
1255.00	16.300	182.900	1239.08	167.13	-165.77	-21.62	2.56	
1343.00	18.500	184.600	1323.04	193.35	-192.02	-23.37	2.57	
1431.00	20.200	189.200	1406.08	222.47	-220.94	-26.92	2.59	
1522.00	22.100	190.600	1490.94	255.29	-253.28	-32.58	2.16	
1610.00	23.300	188.100	1572.13	289.24	-286.78	-38.08	1.75	
1699.00	23.100	192.700	1653.94	324.26	-321.25	-44.40	2.05	
1789.00	22.100	191.300	1737.02	358.79	-355.07	-51.59	1.26	
1879.00	21.800	190.600	1820.50	392.41	-388.10	-57.99	0.44	
1968.00	22.300	189.200	1902.99	425.81	-421.01	-63.73	0.82	
2055.00	21.600	187.100	1983.68	458.32	-453.20	-68.34	1.21	
2145.00	21.700	187.100	2067.34	491.51	-486.15	-72.45	0.11	
2235.00	21.500	188.100	2151.02	524.64	-518.99	-76.83	0.47	
2324.00	21.700	185.300	2233.77	557.37	-551.52	-80.65	1.18	
2413.00	21.100	182.900	2316.63	589.73	-583.90	-82.98	1.19	
2501.00	20.300	180.800	2398.95	620.61	-614.99	-83.99	1.24	



Actual Wellpath Report

CARTER 15-32 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 CARTER 15-32 (2321'FSL & 1574'FEL)
Area	COLORADO	Well	CARTER 15-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 15-32 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
2591.00	21.600	183.200	2483.00	652.57	-647.14	-85.13	1.73	
2680.00	21.500	181.800	2565.78	685.06	-679.80	-86.56	0.59	
2769.00	20.800	183.900	2648.79	717.00	-711.86	-88.15	1.16	
2859.00	20.900	183.000	2732.89	748.90	-743.84	-90.08	0.37	
2950.00	20.000	184.300	2818.16	780.57	-775.57	-92.09	1.11	
3038.00	20.900	189.500	2900.62	811.27	-806.06	-95.81	2.30	
3127.00	21.500	191.300	2983.60	843.44	-837.71	-101.63	0.99	
3214.00	22.800	191.000	3064.17	876.21	-869.89	-107.97	1.50	
3303.00	21.400	191.700	3146.63	909.66	-902.72	-114.55	1.60	
3392.00	21.100	191.000	3229.58	941.88	-934.34	-120.90	0.44	
3481.00	20.300	193.100	3312.84	973.28	-965.11	-127.46	1.23	
3570.00	21.200	192.700	3396.06	1004.73	-995.84	-134.49	1.02	
3659.00	20.700	189.500	3479.18	1036.51	-1027.06	-140.63	1.40	
3747.00	19.300	192.700	3561.88	1066.57	-1056.59	-146.39	2.02	
3835.00	18.600	201.900	3645.12	1094.75	-1083.80	-154.83	3.48	
3924.00	18.900	199.700	3729.40	1122.72	-1110.54	-164.98	0.86	
4014.00	19.400	198.700	3814.42	1151.75	-1138.42	-174.69	0.66	
4104.00	19.300	195.200	3899.34	1181.25	-1166.94	-183.38	1.29	
4192.00	19.100	188.500	3982.46	1210.10	-1195.21	-189.32	2.51	
4281.00	20.000	189.500	4066.32	1239.88	-1224.63	-193.98	1.08	
4371.00	20.100	190.300	4150.87	1270.73	-1255.02	-199.29	0.32	
4460.00	22.300	189.200	4233.84	1302.90	-1286.74	-204.72	2.51	
4550.00	21.500	187.400	4317.35	1336.47	-1319.95	-209.58	1.16	
4638.00	20.900	187.800	4399.39	1368.28	-1351.50	-213.79	0.70	
4728.00	20.300	191.000	4483.64	1399.94	-1382.73	-218.94	1.42	
4818.00	19.900	188.100	4568.16	1430.85	-1413.22	-224.08	1.19	
4908.00	19.300	187.800	4652.94	1461.04	-1443.12	-228.26	0.68	
4998.00	18.900	189.200	4737.99	1490.49	-1472.24	-232.61	0.68	
5089.00	18.100	188.800	4824.29	1519.36	-1500.76	-237.13	0.89	
5179.00	16.000	188.500	4910.33	1545.75	-1526.85	-241.10	2.34	



Actual Wellpath Report

CARTER 15-32 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 CARTER 15-32 (2321'FSL & 1574'FEL)
Area	COLORADO	Well	CARTER 15-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 15-32 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
5268.00	13.600	187.800	4996.37	1568.48	-1549.35	-244.33	2.70	
5359.00	13.000	188.500	5084.93	1589.41	-1570.07	-247.30	0.68	
5445.00	11.200	188.100	5169.01	1607.44	-1587.91	-249.90	2.10	
5533.00	9.600	188.100	5255.56	1623.32	-1603.63	-252.14	1.82	
5623.00	8.600	184.600	5344.43	1637.54	-1617.77	-253.74	1.27	
5714.00	7.000	179.700	5434.59	1649.80	-1630.10	-254.26	1.90	
5804.00	4.600	178.300	5524.12	1658.77	-1639.19	-254.12	2.67	
5893.00	4.000	177.200	5612.87	1665.32	-1645.86	-253.86	0.68	
5981.00	3.200	178.600	5700.69	1670.75	-1651.38	-253.65	0.91	
6070.00	2.300	171.300	5789.59	1674.90	-1655.63	-253.32	1.08	
6159.00	1.600	171.600	5878.54	1677.79	-1658.62	-252.87	0.79	
6250.00	1.200	175.100	5969.51	1679.93	-1660.83	-252.60	0.45	
6338.00	1.100	183.600	6057.49	1681.67	-1662.59	-252.58	0.22	
6429.00	1.000	180.400	6148.48	1683.32	-1664.26	-252.64	0.13	
6518.00	0.800	187.100	6237.47	1684.71	-1665.65	-252.72	0.25	
6608.00	0.500	200.100	6327.46	1685.73	-1666.64	-252.93	0.37	
6699.00	0.500	177.600	6418.46	1686.50	-1667.41	-253.05	0.21	
6789.00	0.300	226.800	6508.46	1687.07	-1667.97	-253.21	0.42	
6879.00	0.300	191.700	6598.46	1687.50	-1668.36	-253.43	0.20	
6968.00	0.300	322.800	6687.46	1687.57	-1668.40	-253.61	0.61	
7058.00	0.400	40.800	6777.45	1687.14	-1667.98	-253.55	0.50	
7149.00	1.100	69.300	6868.45	1686.44	-1667.43	-252.53	0.85	
7239.00	0.200	138.600	6958.44	1686.11	-1667.24	-251.62	1.16	
7326.00	0.900	246.500	7045.44	1686.58	-1667.63	-252.14	1.13	
7415.00	2.200	263.000	7134.40	1687.41	-1668.11	-254.48	1.53	
7504.00	3.100	252.500	7223.31	1688.94	-1669.04	-258.47	1.14	
7592.00	4.300	240.900	7311.12	1692.01	-1671.36	-263.62	1.60	
7681.00	3.200	260.600	7399.93	1694.83	-1673.39	-268.99	1.89	
7770.00	2.500	265.500	7488.82	1696.04	-1673.95	-273.37	0.83	
7858.00	1.600	213.500	7576.77	1697.60	-1675.13	-275.97	2.24	



Actual Wellpath Report

CARTER 15-32 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 CARTER 15-32 (2321'FSL & 1574'FEL)
Area	COLORADO	Well	CARTER 15-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 15-32 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
7949.00	1.100	218.400	7667.75	1699.51	-1676.87	-277.21	0.56	
8037.00	1.000	223.300	7755.73	1700.88	-1678.09	-278.26	0.15	
8128.00	1.000	209.200	7846.72	1702.27	-1679.36	-279.19	0.27	
8217.00	1.000	215.600	7935.71	1703.69	-1680.67	-280.02	0.13	
8304.00	1.000	201.500	8022.69	1705.11	-1681.99	-280.74	0.28	
8393.00	1.000	205.000	8111.68	1706.61	-1683.42	-281.36	0.07	
8504.00	1.200	206.400	8222.66	1708.65	-1685.34	-282.28	0.18	LAST BHI MWD SURVEY
8554.00	1.200	206.400	8272.65	1709.65	-1686.28	-282.75	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS - Ref Wellbore: CARTER 15-32 AWB Ref Wellpath: CARTER 15-32 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	898.24	0.00	0.00	-87.02	-15.12



Actual Wellpath Report

CARTER 15-32 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 CARTER 15-32 (2321'FSL & 1574'FEL)
Area	COLORADO	Well	CARTER 15-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 15-32 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 15-32 LEGAL BOX (200'N,200'S,50'E,350'W OF GEO TARGET)		6000.00	-1661.54	-404.54	3196218.15	1276104.12	40°05'21.001"N	104°47'55.251"W	square
CARTER 15-32 BHL ON PLAT (660'FSL & 1830'FEL, REV-1)		6000.00	-1661.56	-251.51	3196371.17	1276105.32	40°05'21.001"N	104°47'53.282"W	point
CARTER 15-32 GEO TARGET 50' RADIUS (600'FSL & 1833'FEL, REV-2)		6000.00	-1661.54	-254.54	3196368.14	1276105.31	40°05'21.001"N	104°47'53.321"W	circle

WELLPATH COMPOSITION - Ref Wellbore: CARTER 15-32 AWB Ref Wellpath: CARTER 15-32 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 15-32 AWB
861.00	8504.00	NaviTrak (Standard)	BHI MWD SURVEYS 7 7/8 HOLE<915-8504>	CARTER 15-32 AWB
8504.00	8554.00	Blind Drilling (std)	Projection to bit	CARTER 15-32 AWB



Actual Wellpath Report

CARTER 15-32 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#05 CARTER 15-32 (2321'FSL & 1574'FEL)
Area	COLORADO	Well	CARTER 15-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 15-32 AWB
Facility	SEC.32-T2N-R66W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8504.00	1.200	206.400	8222.66	LAST BHI MWD SURVEY
8554.00	1.200	206.400	8272.65	PROJECTION TO BIT