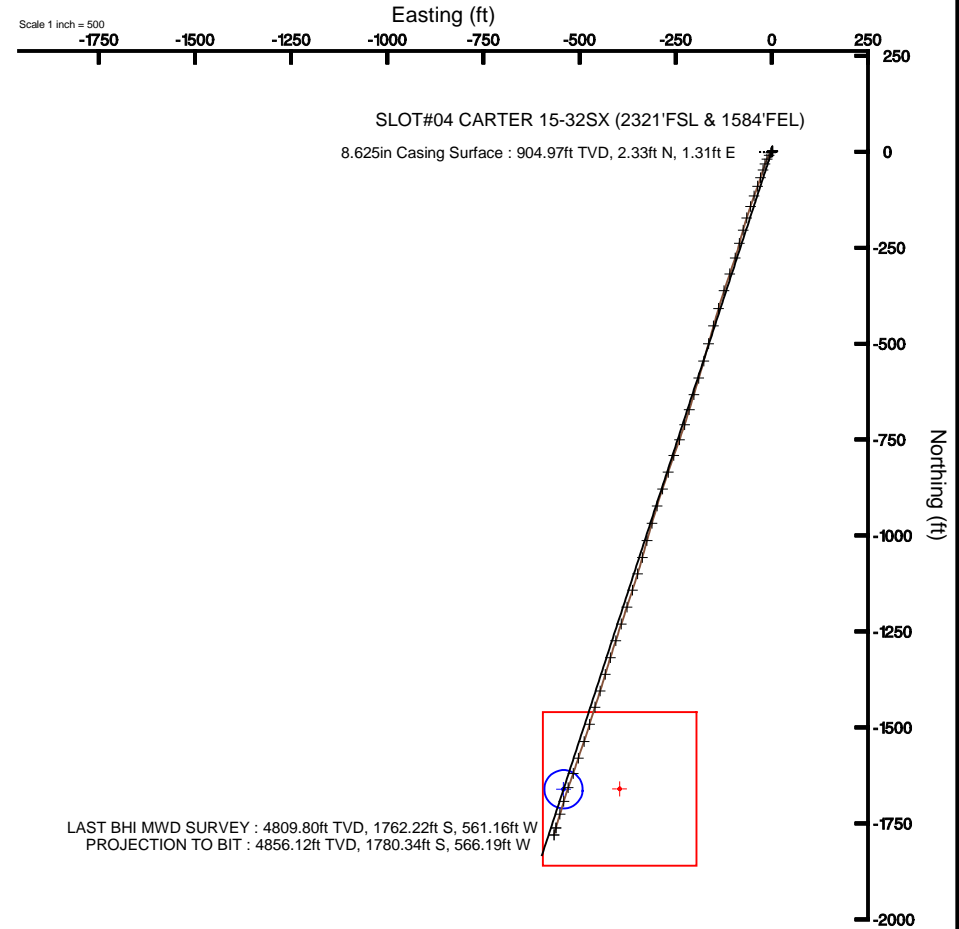
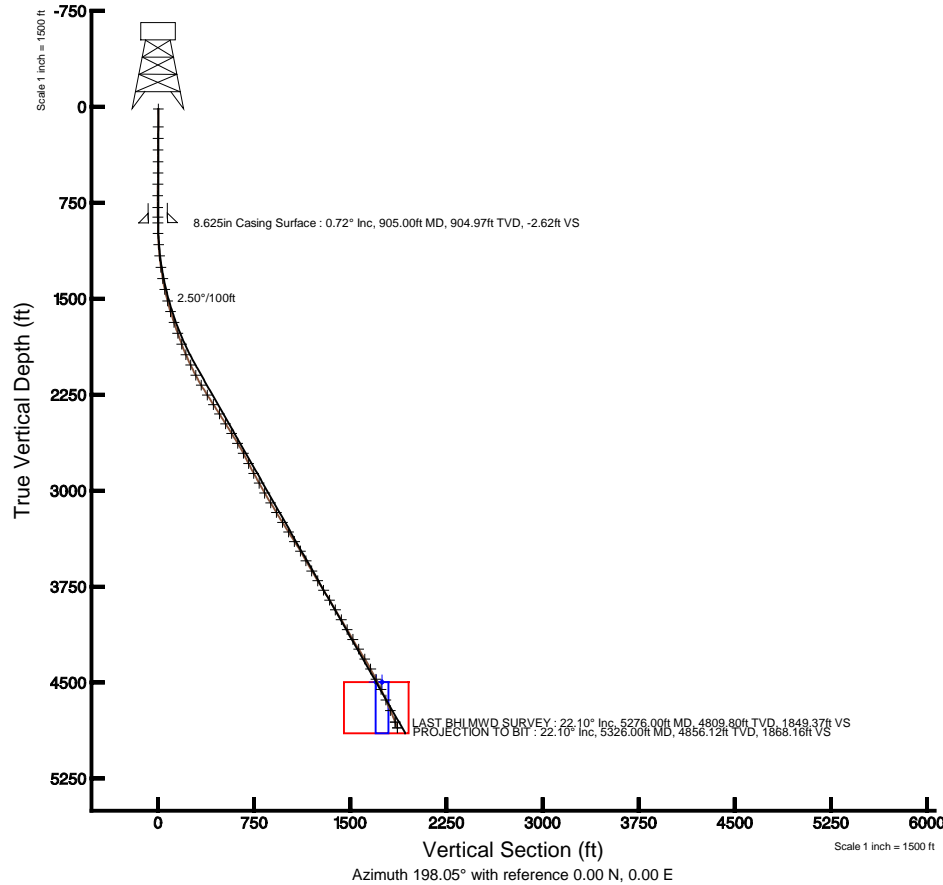


KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#04 CARTER 15-32SX (2321'FSL & 1584'FEL)
 Field: WELD COUNTY (KERR MCGEE) Well: CARTER 15-32SX
 Facility: SEC.32-T2N-R66W Wellbore: CARTER 15-32SX PWB

Plot reference wellpath is CARTER 15-32SX (REV-A.1) PWP	
True vertical depths are referenced to XTREME 6 (RKB)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), 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#04 CARTER 15-32SX (2321'FSL & 1584'FEL)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: painsetr on 7/20/2011



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 15-32SX AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 CARTER 15-32SX (2321'FSL & 1584'FEL)
Area	COLORADO	Well	CARTER 15-32SX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 15-32SX 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 2:16:09 PM
Convergence at slot	0.45° East	Database/Source file	WA_Denver/CARTER_15-32SX_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	29.87	3196599.42	1277768.67	40°05'37.421"N	104°47'50.176"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#04 CARTER 15-32SX (2321'FSL & 1584'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	198.05°



Actual Wellpath Report

CARTER 15-32SX AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 CARTER 15-32SX (2321'FSL & 1584'FEL)
Area	COLORADO	Well	CARTER 15-32SX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 15-32SX AWB
Facility	SEC.32-T2N-R66W		

WELLPATH DATA (61 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	34.900	0.00	0.00	0.00	0.00	0.00	
16.00	0.000	34.900	16.00	0.00	0.00	0.00	0.00	
155.00	0.200	34.900	155.00	-0.23	0.20	0.14	0.14	
246.00	0.200	61.900	246.00	-0.50	0.40	0.37	0.10	
336.00	0.500	80.900	336.00	-0.79	0.54	0.90	0.35	
427.00	0.700	86.500	426.99	-1.18	0.64	1.84	0.23	
515.00	0.500	55.600	514.99	-1.68	0.89	2.70	0.42	
604.00	1.100	7.800	603.98	-2.83	1.95	3.13	0.95	
693.00	0.300	273.200	692.97	-3.61	2.81	3.02	1.31	
785.00	0.600	249.300	784.97	-3.24	2.66	2.32	0.38	
861.00	0.400	266.700	860.97	-2.90	2.50	1.69	0.33	
988.00	1.500	219.100	987.95	-1.19	1.18	0.20	1.00	
1076.00	4.000	215.200	1075.84	2.82	-2.22	-2.30	2.85	
1165.00	6.100	211.700	1164.49	10.38	-8.78	-6.57	2.38	
1255.00	8.000	205.700	1253.81	21.24	-18.49	-11.80	2.26	
1343.00	9.800	199.700	1340.75	34.80	-31.06	-16.98	2.30	
1431.00	12.200	197.300	1427.12	51.58	-46.99	-22.27	2.78	
1522.00	14.300	198.300	1515.70	72.44	-66.85	-28.66	2.32	
1610.00	16.800	198.700	1600.47	96.03	-89.21	-36.15	2.84	
1699.00	18.600	200.400	1685.25	123.07	-114.70	-45.23	2.10	
1789.00	19.400	198.300	1770.35	152.36	-142.35	-54.92	1.17	
1879.00	20.800	197.600	1854.87	183.29	-171.77	-64.45	1.58	
1968.00	23.200	196.200	1937.38	216.62	-203.67	-74.12	2.76	
2055.00	25.500	194.500	2016.64	252.44	-238.27	-83.59	2.76	
2145.00	27.400	198.300	2097.22	292.49	-276.69	-94.95	2.83	
2235.00	30.300	199.000	2176.04	335.91	-317.83	-108.84	3.24	
2324.00	32.600	198.000	2251.96	382.34	-361.86	-123.56	2.65	
2413.00	33.000	196.600	2326.77	430.54	-407.89	-137.90	0.96	
2501.00	32.200	195.900	2400.91	477.93	-453.41	-151.17	1.01	
2591.00	32.300	195.500	2477.02	525.92	-499.64	-164.16	0.26	



Actual Wellpath Report

CARTER 15-32SX AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 CARTER 15-32SX (2321'FSL & 1584'FEL)
Area	COLORADO	Well	CARTER 15-32SX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 15-32SX AWB
Facility	SEC.32-T2N-R66W		

WELLPATH DATA (61 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
2680.00	31.400	195.200	2552.62	572.83	-544.93	-176.59	1.03	
2770.00	30.900	196.600	2629.65	619.35	-589.70	-189.34	0.98	
2861.00	28.300	196.600	2708.76	664.28	-632.77	-202.18	2.86	
2950.00	26.900	197.300	2787.63	705.50	-672.22	-214.20	1.61	
3038.00	28.200	197.600	2865.65	746.20	-711.04	-226.41	1.49	
3125.00	28.400	200.100	2942.26	787.44	-750.07	-239.73	1.38	
3214.00	30.700	199.000	3019.68	831.31	-791.43	-254.41	2.66	
3303.00	31.400	198.300	3095.92	877.21	-834.93	-269.08	0.88	
3392.00	30.900	199.000	3172.09	923.25	-878.55	-283.80	0.69	
3481.00	32.000	196.600	3248.02	969.67	-922.76	-297.98	1.87	
3570.00	32.100	196.200	3323.45	1016.88	-968.06	-311.31	0.26	
3658.00	32.400	195.500	3397.88	1063.80	-1013.24	-324.14	0.54	
3746.00	30.300	195.500	3473.03	1109.54	-1057.35	-336.37	2.39	
3835.00	29.500	196.900	3550.18	1153.88	-1099.95	-348.74	1.19	
3925.00	30.200	198.000	3628.24	1198.67	-1142.68	-362.18	0.99	
4015.00	31.600	198.000	3705.46	1244.89	-1186.64	-376.46	1.56	
4103.00	31.800	198.700	3780.34	1291.13	-1230.53	-391.02	0.48	
4192.00	31.000	198.000	3856.30	1337.50	-1274.54	-405.62	0.99	
4282.00	30.800	196.900	3933.53	1383.71	-1318.63	-419.48	0.67	
4371.00	30.200	196.600	4010.21	1428.87	-1361.88	-432.50	0.70	
4461.00	30.100	198.000	4088.04	1474.07	-1405.04	-445.94	0.79	
4549.00	30.800	198.000	4163.90	1518.66	-1447.45	-459.72	0.80	
4639.00	32.300	196.600	4240.60	1565.75	-1492.41	-473.71	1.85	
4729.00	30.800	199.000	4317.29	1612.83	-1537.25	-488.09	2.17	
4820.00	29.100	198.700	4396.14	1658.25	-1580.24	-502.77	1.88	
4910.00	26.800	199.000	4475.63	1700.43	-1620.16	-516.39	2.56	
4999.00	25.800	199.000	4555.42	1739.86	-1657.44	-529.23	1.12	
5090.00	23.200	196.200	4638.22	1777.58	-1693.39	-540.68	3.13	
5179.00	22.800	197.300	4720.15	1812.34	-1726.69	-550.70	0.66	
5276.00	22.100	195.500	4809.80	1849.37	-1762.22	-561.16	1.01	LAST BHI MWD SURVEY



Actual Wellpath Report

CARTER 15-32SX AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 CARTER 15-32SX (2321'FSL & 1584'FEL)
Area	COLORADO	Well	CARTER 15-32SX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 15-32SX AWB
Facility	SEC.32-T2N-R66W		

WELLPATH DATA (61 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5326.00	22.100	195.500	4856.12	1868.16	-1780.34	-566.19	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS - Ref Wellbore: CARTER 15-32SX AWB Ref Wellpath: CARTER 15-32SX 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	904.97	0.00	0.00	2.33	1.31

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
CARTER 15-32SX GEO TARGET 50' RADIUS (660'FSL & 2130'FEL, REV-1)		4498.00	-1661.55	-541.44	3196071.18	1276102.95	40°05'21.001"N	104°47'57.142"W	circle
CARTER 15-32SX LEGAL BOX (199'S,201'N,54'W,346'E OF GEO TARGET)		4498.00	-1660.53	-395.41	3196217.20	1276105.13	40°05'21.011"N	104°47'55.263"W	square

WELLPATH COMPOSITION - Ref Wellbore: CARTER 15-32SX AWB Ref Wellpath: CARTER 15-32SX 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 15-32SX AWB
861.00	5276.00	NaviTrak (Standard)	BHI MWD SURVEYS 7 7/8 HOLE<988-5276>	CARTER 15-32SX AWB
5276.00	5326.00	Blind Drilling (std)	Projection to bit	CARTER 15-32SX AWB



Actual Wellpath Report

CARTER 15-32SX AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#04 CARTER 15-32SX (2321'FSL & 1584'FEL)
Area	COLORADO	Well	CARTER 15-32SX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 15-32SX AWB
Facility	SEC.32-T2N-R66W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
5276.00	22.100	195.500	4809.80	LAST BHI MWD SURVEY
5326.00	22.100	195.500	4856.12	PROJECTION TO BIT