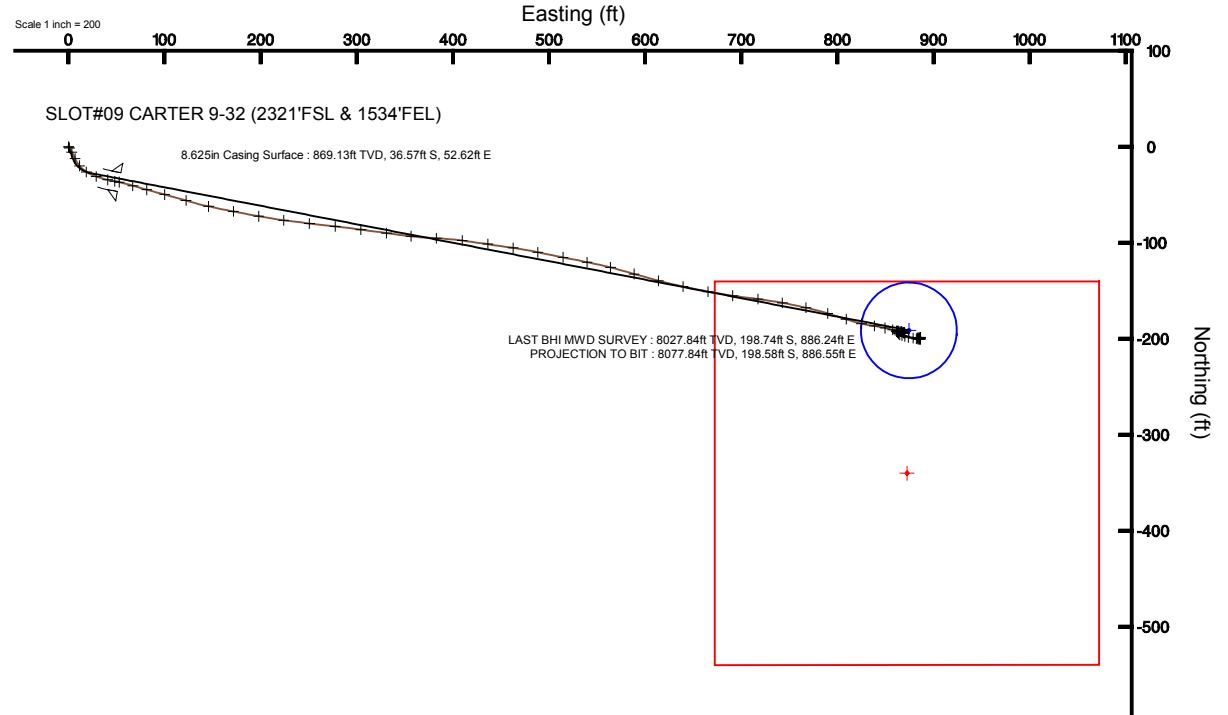
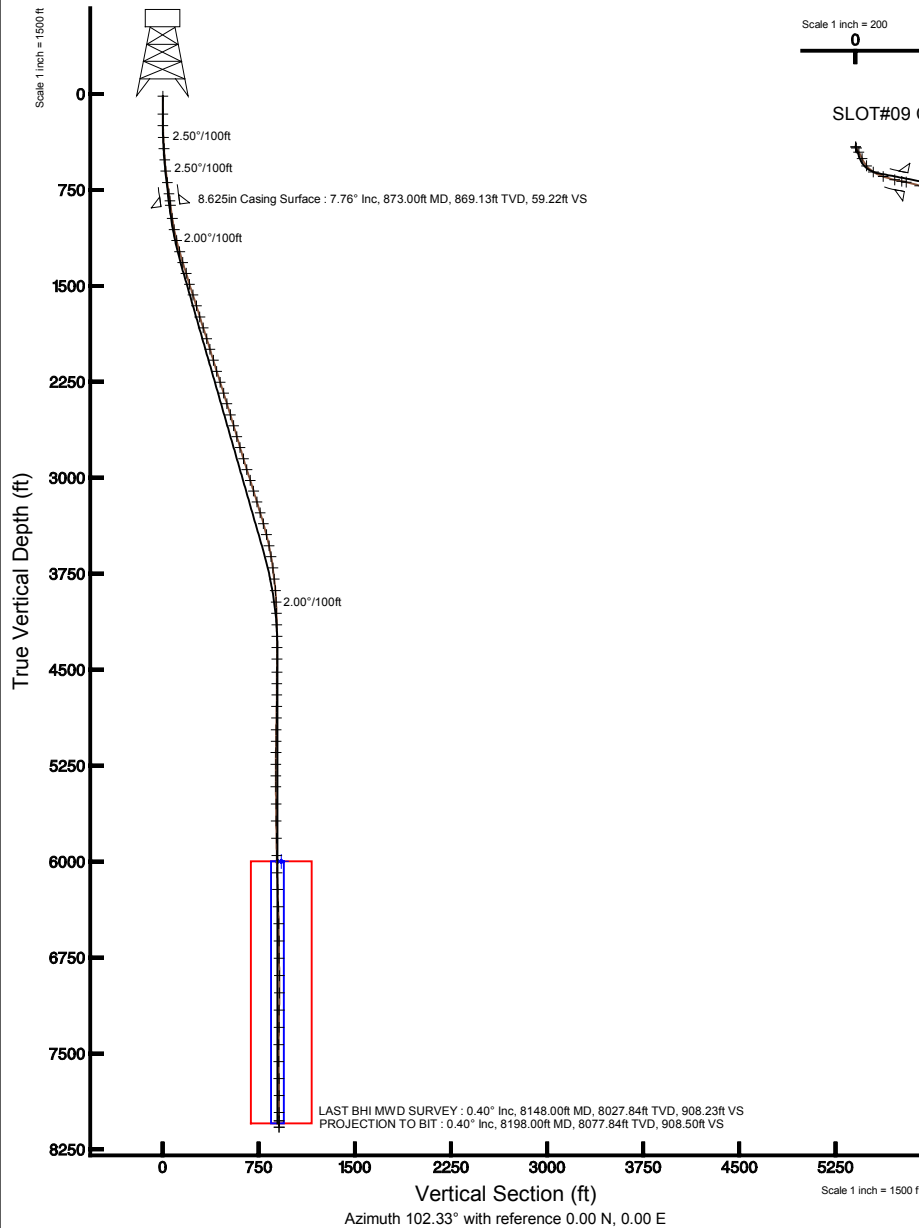


KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#09 CARTER 9-32 (2321'FSL & 1534'FEL)
 Field: WELD COUNTY (KERR MCGEE) Well: CARTER 9-32
 Facility: SEC.32-T2N-R66W Wellbore: CARTER 9-32 PWB



Plot reference wellpath is CARTER 9-32 (REV-A-1) FWP	
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: 4929 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#09 CARTER 9-32 (2321'FSL & 1534'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 9-32 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#09 CARTER 9-32 (2321'FSL & 1534'FEL)
Area	COLORADO	Well	CARTER 9-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 9-32 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 1:37:21 PM
Convergence at slot	0.45° East	Database/Source file	WA_Denver/CARTER_9-32_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	79.95	3196649.50	1277769.07	40°05'37.421"N	104°47'49.531"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	4929.00ft
Horizontal Reference Pt	Slot	XTREME 6 (RKB) to Mean Sea Level	4929.00ft
Vertical Reference Pt	XTREME 6 (RKB)	XTREME 6 (RKB) to Mud Line at Slot (SLOT#09 CARTER 9-32 (2321'FSL & 1534'FEL))	4929.00ft
MD Reference Pt	XTREME 6 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	102.33°



Actual Wellpath Report

CARTER 9-32 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#09 CARTER 9-32 (2321'FSL & 1534'FEL)
Area	COLORADO	Well	CARTER 9-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 9-32 AWB
Facility	SEC.32-T2N-R66W		

WELLPATH DATA (84 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	16.900	0.00	0.00	0.00	0.00	0.00	
16.00	0.000	16.900	16.00	0.00	0.00	0.00	0.00	
155.00	0.200	16.900	155.00	0.02	0.23	0.07	0.14	
245.00	1.900	151.200	244.98	1.01	-0.93	0.84	2.27	
338.00	4.200	150.900	337.85	4.28	-5.25	3.23	2.47	
427.00	5.800	154.700	426.50	9.18	-12.17	6.74	1.83	
514.00	5.700	141.700	513.07	15.21	-19.53	11.30	1.50	
603.00	6.900	123.500	601.54	23.61	-25.95	18.50	2.60	
693.00	7.700	108.300	690.82	34.65	-30.83	28.73	2.31	
783.00	8.200	103.400	779.95	47.07	-34.21	40.70	0.94	
838.00	7.500	99.500	834.44	54.57	-35.71	48.05	1.60	
976.00	8.600	107.300	971.08	73.85	-40.27	66.79	1.12	
1065.00	11.100	105.600	1058.76	89.03	-44.55	81.40	2.83	
1153.00	14.000	104.800	1144.65	108.13	-49.55	99.85	3.30	
1244.00	15.500	106.600	1232.65	131.25	-55.83	122.15	1.72	
1331.00	17.000	102.400	1316.18	155.57	-61.89	145.71	2.19	
1420.00	17.300	101.000	1401.22	181.81	-67.21	171.41	0.57	
1510.00	17.400	100.600	1487.12	208.64	-72.23	197.77	0.17	
1598.00	17.700	97.400	1571.03	235.12	-76.38	223.97	1.15	
1687.00	17.500	97.100	1655.86	261.92	-79.77	250.67	0.25	
1777.00	17.300	96.000	1741.74	288.70	-82.85	277.40	0.43	
1867.00	17.700	97.800	1827.58	315.64	-86.10	304.27	0.75	
1956.00	17.500	97.800	1912.41	342.46	-89.75	330.93	0.22	
2043.00	16.900	96.700	1995.52	368.09	-93.00	356.45	0.78	
2133.00	17.100	92.900	2081.59	394.16	-95.20	382.66	1.25	
2224.00	17.500	97.100	2168.48	420.98	-97.57	409.60	1.44	
2313.00	17.700	98.800	2253.31	447.81	-101.29	436.25	0.62	
2402.00	17.300	98.100	2338.19	474.51	-105.23	462.72	0.51	
2489.00	17.500	101.700	2421.22	500.50	-109.70	488.33	1.26	
2579.00	17.100	101.300	2507.14	527.26	-115.04	514.56	0.46	



Actual Wellpath Report

CARTER 9-32 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#09 CARTER 9-32 (2321'FSL & 1534'FEL)
Area	COLORADO	Well	CARTER 9-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 9-32 AWB
Facility	SEC.32-T2N-R66W		

WELLPATH DATA (84 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
2668.00	16.400	101.300	2592.37	552.90	-120.06	539.71	0.79	
2757.00	16.200	104.500	2677.79	577.87	-125.63	564.05	1.03	
2847.00	16.600	106.200	2764.13	603.24	-132.36	588.55	0.69	
2938.00	17.100	105.100	2851.22	629.58	-139.48	613.95	0.65	
3027.00	17.400	101.700	2936.22	655.95	-145.58	639.62	1.18	
3115.00	17.600	101.000	3020.15	682.41	-150.79	665.56	0.33	
3202.00	17.300	97.800	3103.15	708.46	-155.06	691.29	1.16	
3291.00	17.100	97.400	3188.17	734.68	-158.54	717.38	0.26	
3380.00	16.700	100.300	3273.33	760.50	-162.51	742.93	1.05	
3469.00	16.000	103.100	3358.73	785.55	-167.58	767.46	1.18	
3558.00	14.300	106.900	3444.63	808.77	-173.55	789.93	2.21	
3647.00	12.000	108.300	3531.29	828.93	-179.65	809.23	2.61	
3735.00	9.800	102.700	3617.70	845.52	-184.17	825.23	2.77	
3824.00	7.900	98.100	3705.64	859.20	-186.70	838.67	2.28	
3912.00	6.600	103.400	3792.94	870.28	-188.72	849.58	1.66	
4002.00	4.200	100.300	3882.53	878.75	-190.51	857.85	2.69	
4092.00	3.100	101.000	3972.35	884.48	-191.57	863.49	1.22	
4180.00	1.600	108.700	4060.27	888.08	-192.41	866.99	1.74	
4269.00	1.300	119.700	4149.24	890.28	-193.31	869.04	0.46	
4359.00	0.100	14.800	4239.23	891.25	-193.74	869.95	1.48	
4448.00	0.100	130.800	4328.23	891.32	-193.72	870.03	0.19	
4537.00	0.100	201.100	4417.23	891.38	-193.84	870.06	0.13	
4639.00	0.400	259.200	4519.23	891.04	-193.99	869.67	0.35	
4729.00	0.400	315.400	4609.23	890.49	-193.83	869.15	0.42	
4819.00	0.700	300.300	4699.23	889.70	-193.33	868.45	0.37	
4909.00	0.800	291.100	4789.22	888.56	-192.82	867.39	0.17	
4999.00	1.100	272.500	4879.21	887.09	-192.56	865.94	0.47	
5090.00	1.100	273.900	4970.19	885.36	-192.46	864.20	0.03	
5180.00	0.500	283.800	5060.18	884.11	-192.31	862.95	0.68	
5269.00	0.400	279.500	5149.18	883.42	-192.16	862.27	0.12	



Actual Wellpath Report

CARTER 9-32 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#09 CARTER 9-32 (2321'FSL & 1534'FEL)
Area	COLORADO	Well	CARTER 9-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 9-32 AWB
Facility	SEC.32-T2N-R66W		

WELLPATH DATA (84 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5360.00	0.300	292.900	5240.18	882.86	-192.02	861.74	0.14	
5450.00	0.200	163.200	5330.18	882.71	-192.08	861.56	0.51	
5536.00	0.500	143.800	5416.17	883.06	-192.52	861.83	0.37	
5671.00	0.600	137.500	5551.17	884.08	-193.52	862.66	0.09	
5803.00	0.800	140.300	5683.16	885.37	-194.74	863.71	0.15	
5939.00	0.800	114.700	5819.14	887.05	-195.87	865.18	0.26	
6074.00	1.300	106.900	5954.12	889.50	-196.71	867.50	0.38	
6208.00	1.300	109.400	6088.09	892.52	-197.65	870.39	0.04	
6340.00	2.000	96.700	6220.03	896.30	-198.42	874.09	0.60	
6475.00	2.200	100.600	6354.94	901.23	-199.17	878.98	0.18	
6608.00	0.800	108.700	6487.89	904.71	-199.94	882.36	1.06	
6743.00	0.900	103.100	6622.88	906.70	-200.48	884.29	0.10	
6878.00	0.400	73.900	6757.87	908.18	-200.59	885.78	0.43	
7014.00	0.300	83.400	6893.87	908.93	-200.42	886.59	0.08	
7149.00	0.300	331.900	7028.87	909.04	-200.06	886.77	0.37	
7283.00	0.400	313.600	7162.86	908.41	-199.43	886.27	0.11	
7419.00	0.900	271.100	7298.85	906.96	-199.08	884.85	0.49	
7553.00	0.300	245.800	7432.85	905.64	-199.21	883.48	0.48	
7685.00	0.200	65.800	7564.85	905.55	-199.26	883.38	0.38	
7819.00	0.400	90.800	7698.84	906.20	-199.17	884.06	0.18	
7951.00	0.400	90.800	7830.84	907.10	-199.18	884.98	0.00	
8085.00	0.400	59.500	7964.84	907.90	-198.95	885.85	0.16	
8148.00	0.400	63.300	8027.84	908.23	-198.74	886.24	0.04	LAST BHI MWD SURVEY
8198.00	0.400	63.300	8077.84	908.50	-198.58	886.55	0.00	PROJECTION TO BIT



Actual Wellpath Report

CARTER 9-32 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#09 CARTER 9-32 (2321'FSL & 1534'FEL)
Area	COLORADO	Well	CARTER 9-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 9-32 AWB
Facility	SEC.32-T2N-R66W		

HOLE & CASING SECTIONS - Ref Wellbore: CARTER 9-32 AWB Ref Wellpath: CARTER 9-32 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	873.00	857.00	16.00	869.13	0.00	0.00	-36.57	52.62

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
CARTER 9-32 GEO TARGET 50' RADIUS (2130'FSL & 660'FEL, REV-1)		6000.00	-191.22	874.57	3197525.52	1277584.79	40°05'35.531"N	104°47'38.278"W	circle
CARTER 9-32 LEGAL BOX (51'N,349'S,198'E,202'W OF GEO TARGET)		6000.00	-340.24	872.60	3197524.73	1277435.77	40°05'34.058"N	104°47'38.303"W	square

WELLPATH COMPOSITION - Ref Wellbore: CARTER 9-32 AWB Ref Wellpath: CARTER 9-32 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	838.00	NaviTrak (Standard)	BHI MWD SURVEYS 12 1/4 HOLE<155-838>	CARTER 9-32 AWB
838.00	8148.00	NaviTrak (Standard)	BHI MWD SURVEYS 7 7/8 HOLE<976-8148>	CARTER 9-32 AWB
8148.00	8198.00	Blind Drilling (std)	Projection to bit	CARTER 9-32 AWB



Actual Wellpath Report

CARTER 9-32 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#09 CARTER 9-32 (2321'FSL & 1534'FEL)
Area	COLORADO	Well	CARTER 9-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 9-32 AWB
Facility	SEC.32-T2N-R66W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8148.00	0.400	63.300	8027.84	LAST BHI MWD SURVEY
8198.00	0.400	63.300	8077.84	PROJECTION TO BIT