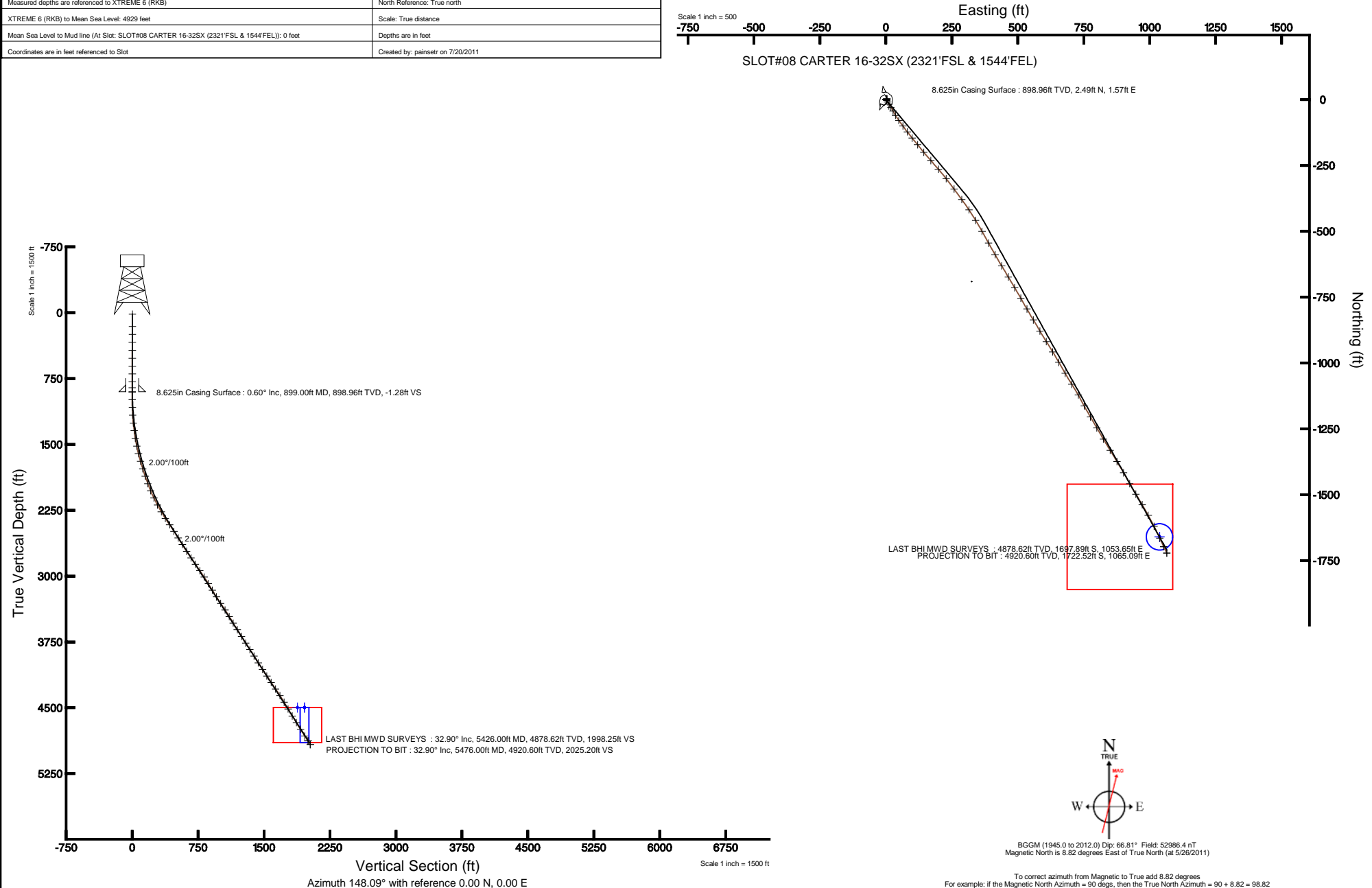


# KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#08 CARTER 16-32SX (2321'FSL & 1544'FEL)  
 Field: WELD COUNTY (KERR MCGEE) Well: CARTER 16-32SX  
 Facility: SEC.32-T2N-R66W Wellbore: CARTER 16-32SX PWB

Plot reference wellpath is CARTER 16-32SX (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: 4929 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#08 CARTER 16-32SX (2321'FSL & 1544'FEL)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: painsetr on 7/20/2011





# Actual Wellpath Report

CARTER 16-32SX AWP

Page 1 of 5



## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#08 CARTER 16-32SX (2321'FSL & 1544'FEL)
Area	COLORADO	Well	CARTER 16-32SX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 16-32SX 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 2:43:49 PM
Convergence at slot	0.45° East	Database/Source file	WA_Denver/CARTER_16-32SX_AWB.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-0.28	69.88	3196639.43	1277768.62	40°05'37.417"N	104°47'49.661"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#08 CARTER 16-32SX (2321'FSL & 1544'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	148.09°



# Actual Wellpath Report

CARTER 16-32SX AWP

Page 2 of 5



## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#08 CARTER 16-32SX (2321'FSL & 1544'FEL)
Area	COLORADO	Well	CARTER 16-32SX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 16-32SX AWB
Facility	SEC.32-T2N-R66W		

## WELLPATH DATA (64 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	54.900	0.00	0.00	0.00	0.00	0.00	
16.00	0.000	54.900	16.00	0.00	0.00	0.00	0.00	
155.00	0.500	54.900	155.00	-0.03	0.35	0.50	0.36	
245.00	0.700	58.100	244.99	-0.06	0.87	1.28	0.23	
336.00	0.800	48.900	335.99	-0.16	1.58	2.23	0.17	
429.00	1.000	43.600	428.97	-0.46	2.59	3.28	0.23	
519.00	0.100	180.800	518.97	-0.59	3.08	3.82	1.20	
608.00	0.200	255.600	607.97	-0.58	2.96	3.67	0.22	
696.00	0.400	259.900	695.97	-0.74	2.87	3.22	0.23	
785.00	0.400	251.800	784.97	-0.92	2.72	2.62	0.06	
854.00	0.600	259.200	853.96	-1.11	2.58	2.04	0.30	
904.00	0.600	259.000	903.96	-1.30	2.48	1.52	0.00	
989.00	0.400	217.300	988.96	-1.35	2.16	0.91	0.47	
1077.00	1.800	159.700	1076.94	0.11	0.62	1.20	1.84	
1166.00	3.100	151.600	1165.86	3.88	-2.81	2.83	1.51	
1257.00	5.600	143.500	1256.59	10.76	-8.54	6.64	2.82	
1344.00	7.900	148.800	1342.98	20.98	-17.07	12.26	2.74	
1432.00	9.300	150.500	1429.99	34.13	-28.43	18.90	1.62	
1523.00	11.500	150.500	1519.49	50.54	-42.73	26.99	2.42	
1611.00	13.600	150.200	1605.38	69.64	-59.35	36.45	2.39	
1700.00	16.600	144.900	1691.30	92.80	-78.83	48.96	3.71	
1790.00	17.100	142.800	1777.44	118.81	-99.89	64.36	0.88	
1880.00	19.100	143.500	1862.98	146.67	-122.27	81.12	2.24	
1969.00	20.300	141.000	1946.77	176.51	-145.97	99.49	1.65	
2056.00	23.100	140.700	2027.60	208.41	-170.91	119.81	3.22	
2146.00	25.900	140.300	2109.49	245.40	-199.71	143.55	3.12	
2236.00	28.600	138.900	2189.49	286.15	-231.07	170.27	3.08	
2325.00	30.500	139.300	2266.91	329.51	-264.25	199.00	2.15	
2414.00	32.800	141.400	2342.67	375.78	-300.21	228.78	2.87	
2502.00	34.500	144.200	2415.93	424.32	-339.06	258.23	2.62	



# Actual Wellpath Report

CARTER 16-32SX AWP

Page 3 of 5



## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#08 CARTER 16-32SX (2321'FSL & 1544'FEL)
Area	COLORADO	Well	CARTER 16-32SX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 16-32SX AWB
Facility	SEC.32-T2N-R66W		

## WELLPATH DATA (64 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
2592.00	32.800	143.800	2490.85	474.06	-379.41	287.54	1.90	
2681.00	32.300	146.300	2565.87	521.87	-418.64	314.97	1.61	
2770.00	31.700	148.800	2641.35	569.02	-458.43	340.28	1.63	
2860.00	33.300	150.900	2717.25	617.35	-500.25	364.54	2.18	
2951.00	34.800	150.900	2792.65	668.24	-544.77	389.32	1.65	
3040.00	33.600	150.500	2866.26	718.21	-588.39	413.80	1.37	
3128.00	35.100	148.800	2938.91	767.84	-631.23	438.90	2.02	
3215.00	33.400	149.500	3010.82	816.79	-673.26	464.01	2.01	
3304.00	31.100	149.100	3086.09	864.27	-714.10	488.25	2.60	
3393.00	31.600	150.900	3162.10	910.54	-754.20	511.40	1.19	
3482.00	32.100	149.800	3237.69	957.47	-795.01	534.63	0.86	
3571.00	33.900	149.100	3312.33	1005.92	-836.75	559.28	2.07	
3660.00	32.700	149.800	3386.72	1054.77	-878.82	584.12	1.42	
3748.00	31.700	147.700	3461.19	1101.66	-918.91	608.43	1.71	
3836.00	31.100	148.800	3536.30	1147.50	-957.90	632.56	0.94	
3925.00	31.600	150.200	3612.31	1193.79	-997.79	656.05	0.99	
4015.00	32.700	150.500	3688.50	1241.64	-1039.41	679.74	1.24	
4105.00	32.900	147.400	3764.16	1290.38	-1081.17	704.89	1.88	
4193.00	32.700	150.500	3838.14	1338.03	-1121.99	729.47	1.92	
4282.00	31.900	151.900	3913.36	1385.51	-1163.66	752.39	1.23	
4372.00	32.300	149.500	3989.61	1433.28	-1205.36	775.79	1.49	
4461.00	32.800	149.800	4064.63	1481.15	-1246.68	799.99	0.59	
4551.00	34.100	149.800	4139.72	1530.73	-1289.56	824.94	1.44	
4639.00	34.000	148.400	4212.63	1579.99	-1331.83	850.24	0.90	
4729.00	33.900	149.100	4287.29	1630.25	-1374.80	876.32	0.45	
4819.00	32.700	149.800	4362.51	1679.65	-1417.35	901.43	1.40	
4909.00	30.900	150.900	4439.00	1727.03	-1458.56	924.90	2.10	
4999.00	30.700	148.800	4516.31	1773.09	-1498.40	948.05	1.22	
5090.00	31.000	149.800	4594.43	1819.74	-1538.53	971.87	0.65	
5180.00	31.500	150.900	4671.38	1866.39	-1579.10	994.96	0.84	



# Actual Wellpath Report

CARTER 16-32SX AWP

Page 4 of 5



## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#08 CARTER 16-32SX (2321'FSL & 1544'FEL)
Area	COLORADO	Well	CARTER 16-32SX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 16-32SX AWB
Facility	SEC.32-T2N-R66W		

## WELLPATH DATA (64 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5269.00	32.600	153.300	4746.81	1913.50	-1620.84	1017.04	1.89	
5360.00	33.100	155.100	4823.26	1962.57	-1665.28	1038.52	1.21	
5426.00	32.900	155.100	4878.62	1998.25	-1697.89	1053.65	0.30	LAST BHI MWD SURVEYS
5476.00	32.900	155.100	4920.60	2025.20	-1722.52	1065.09	0.00	PROJECTION TO BIT

## HOLE & CASING SECTIONS - Ref Wellbore: CARTER 16-32SX AWB Ref Wellpath: CARTER 16-32SX 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	899.00	883.00	16.00	898.96	0.00	0.00	2.49	1.57

## TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
CARTER 16-32SX BHL ON PLAT (660'FSL & 510'FEL, REV-1)		4499.00	-1660.77	1038.58	3197691.10	1276116.21	40°05'21.005"N	104°47'36.298"W	point
CARTER 16-32SX GEO TARGET 50' RADIUS (660'FSL & 511'FEL, REV-2)		4499.00	-1660.79	1037.61	3197690.13	1276116.18	40°05'21.005"N	104°47'36.311"W	circle
CARTER 16-32SX LEGAL BOX (200'N,200'S,50'E,350'W OF GEO TARGET)		4499.00	-1660.79	887.61	3197540.14	1276114.99	40°05'21.005"N	104°47'38.240"W	square

## WELLPATH COMPOSITION - Ref Wellbore: CARTER 16-32SX AWB Ref Wellpath: CARTER 16-32SX AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	854.00	NaviTrak (Standard)	BHI MWD SURVEYS 12 1/4 HOLE<155-854>	CARTER 16-32SX AWB
854.00	5426.00	NaviTrak (Standard)	BHI MWD SURVEYS 7 7/8 HOLE<904-5426>	CARTER 16-32SX AWB
5426.00	5476.00	Blind Drilling (std)	Projection to bit	CARTER 16-32SX AWB



# Actual Wellpath Report

CARTER 16-32SX AWP

Page 5 of 5



## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#08 CARTER 16-32SX (2321'FSL & 1544'FEL)
Area	COLORADO	Well	CARTER 16-32SX
Field	WELD COUNTY (KERR MCGEE)	Wellbore	CARTER 16-32SX AWB
Facility	SEC.32-T2N-R66W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
5426.00	32.900	155.100	4878.62	LAST BHI MWD SURVEYS
5476.00	32.900	155.100	4920.60	PROJECTION TO BIT