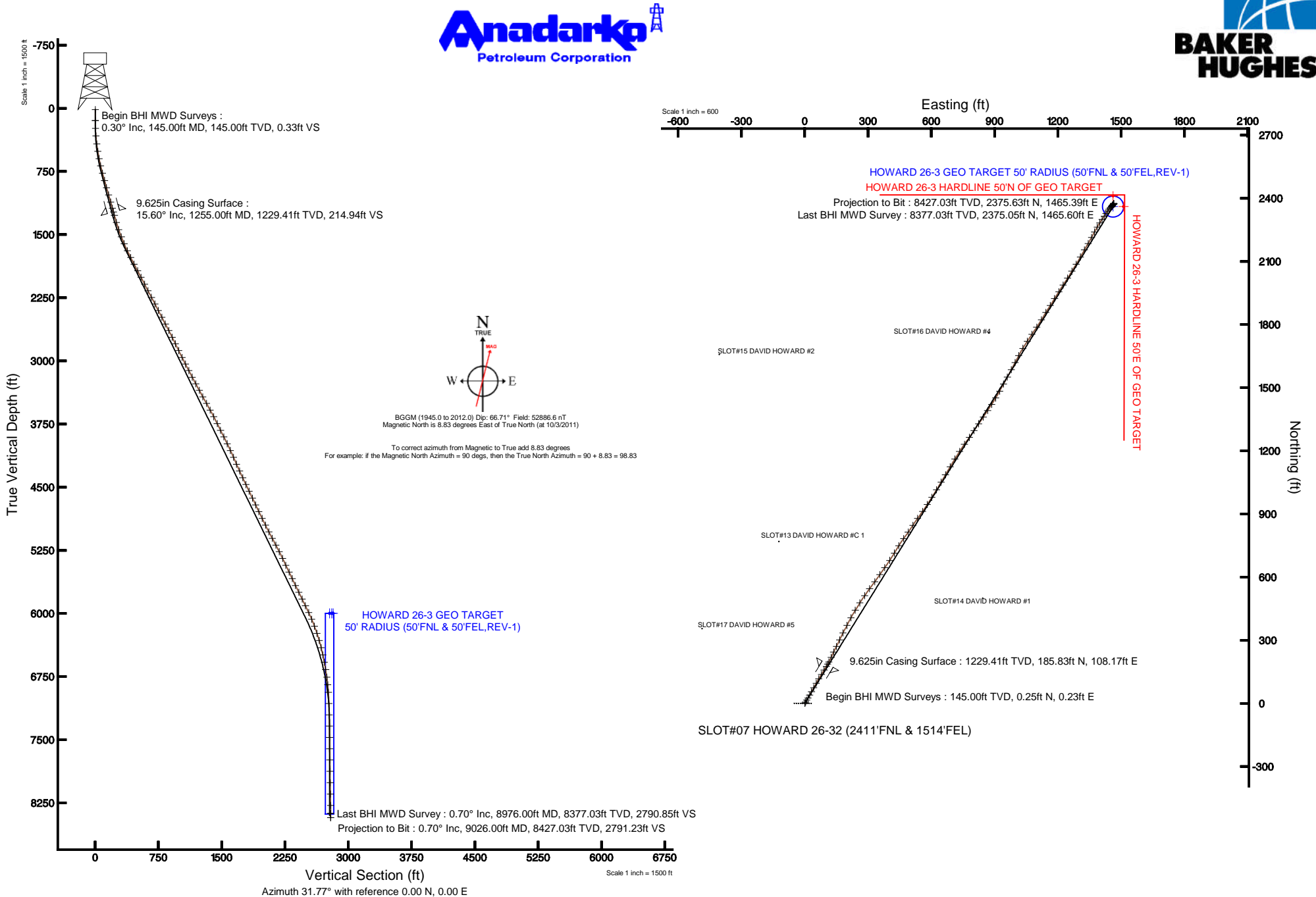


Location:	COLORADO	Slot:	SLOT#07 HOWARD 26-32 (2411'FNL & 1514'FEL)
Field:	WELD COUNTY (KERR MCGEE)	Well:	HOWARD 26-32
Facility:	SEC.32-T1N-R67W	Wellbore:	HOWARD 26-32 PWB

Plot reference wellpath is HOWARD 26-32 (REV-D.0) PWP	
True vertical depths are referenced to XTREME 15 (RKB)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
Measured depths are referenced to XTREME 15 (RKB)	North Reference: True north
XTREME 15 (RKB) to Mean Sea Level: 5076 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#07 HOWARD 26-32 (2411'FNL & 1514'FEL)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: wilsjef02 on 1/10/2012





Actual Wellpath Report

HOWARD 26-32 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANADARKO E&P COMPANY LP	Slot	SLOT#07 HOWARD 26-32 (2411'FNL & 1514'FEL)
Area	COLORADO	Well	HOWARD 26-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	HOWARD 26-32 AWB
Facility	SEC.32-T1N-R67W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 3.0.0
North Reference	True	User	Wilsjef02
Scale	0.999966	Report Generated	1/10/2012 at 8:51:48 AM
Convergence at slot	0.38° East	Database/Source file	WA_ANADARKO/HOWARD_26-32_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	80.12	34.74	3165196.37	1246389.76	40°00'29.585"N	104°54'36.940"W
Facility Reference Pt			3165162.17	1246309.41	40°00'28.793"N	104°54'37.386"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 15 (RKB) to Facility Vertical Datum	5076.00ft
Horizontal Reference Pt	Slot	XTREME 15 (RKB) to Mean Sea Level	5076.00ft
Vertical Reference Pt	XTREME 15 (RKB)	XTREME 15 (RKB) to Mud Line at Slot (SLOT#07 HOWARD 26-32 (2411'FNL & 1514'FEL))	5076.00ft
MD Reference Pt	XTREME 15 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	31.77°



Actual Wellpath Report

HOWARD 26-32 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANADARKO E&P COMPANY LP	Slot	SLOT#07 HOWARD 26-32 (2411'FNL & 1514'FEL)
Area	COLORADO	Well	HOWARD 26-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	HOWARD 26-32 AWB
Facility	SEC.32-T1N-R67W		

WELLPATH DATA (98 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
0.00†	0.000	42.600	0.00	0.00	0.00	0.00	0.00
15.00	0.000	42.600	15.00	0.00	0.00	0.00	0.00
145.00	0.300	42.600	145.00	0.33	0.25	0.23	0.23
237.00	1.900	35.200	236.98	2.09	1.67	1.27	1.74
328.00	4.700	27.500	327.82	7.32	6.21	3.86	3.11
423.00	7.200	32.700	422.30	17.15	14.68	8.88	2.69
511.00	9.000	30.300	509.42	29.55	25.26	15.33	2.08
600.00	10.900	28.500	597.08	44.91	38.67	22.86	2.16
687.00	13.200	29.600	682.16	63.05	54.54	31.69	2.66
777.00	15.300	28.500	769.38	85.18	73.91	42.43	2.35
867.00	15.700	29.900	856.11	109.20	94.90	54.17	0.61
956.00	16.200	29.600	941.68	133.65	116.14	66.31	0.57
1045.00	16.000	32.000	1027.19	158.32	137.33	78.94	0.78
1134.00	15.500	31.300	1112.85	182.48	157.90	91.62	0.60
1210.00	15.600	30.600	1186.07	202.85	175.37	102.09	0.28
1298.00	15.600	28.900	1270.83	226.49	195.91	113.84	0.52
1386.00	17.100	25.400	1355.27	251.17	217.96	125.10	2.04
1476.00	18.500	24.700	1440.96	278.49	242.89	136.75	1.57
1566.00	21.000	26.800	1525.66	308.74	270.26	149.99	2.89
1656.00	23.400	25.000	1608.98	342.55	300.85	164.81	2.77
1745.00	25.900	27.800	1689.87	379.50	334.07	181.35	3.10
1835.00	27.200	26.800	1770.37	419.61	369.82	199.79	1.53
1925.00	27.200	28.200	1850.42	460.63	406.31	218.79	0.71
2014.00	28.000	32.000	1929.30	501.83	441.96	239.47	2.17
2102.00	27.900	32.000	2007.04	543.07	476.93	261.33	0.11
2193.00	26.500	34.500	2087.97	584.64	511.72	284.11	1.99
2281.00	27.700	36.600	2166.31	624.64	544.33	307.43	1.74
2370.00	28.000	36.300	2245.00	666.07	577.77	332.13	0.37
2459.00	27.200	34.500	2323.88	707.22	611.37	356.02	1.30
2547.00	27.900	35.200	2401.90	747.86	644.77	379.28	0.88
2637.00	27.100	33.800	2481.73	789.37	679.01	402.82	1.14
2727.00	27.700	30.600	2561.64	830.77	714.06	424.88	1.77
2815.00	27.700	32.700	2639.55	871.67	748.87	446.34	1.11
2904.00	26.200	34.500	2718.89	911.98	782.47	468.64	1.92
2991.00	25.800	35.500	2797.08	950.06	813.72	490.52	0.68
3081.00	25.900	33.400	2878.08	989.25	846.07	512.71	1.02
3171.00	26.800	35.200	2958.73	1029.15	879.06	535.23	1.34
3260.00	26.900	35.500	3038.13	1069.27	911.85	558.48	0.19
3347.00	27.200	32.700	3115.62	1108.79	944.60	580.66	1.50
3435.00	28.200	32.700	3193.53	1149.69	979.03	602.75	1.14
3525.00	28.100	31.000	3272.89	1192.15	1015.09	625.16	0.90
3613.00	28.200	30.600	3350.48	1233.66	1050.75	646.42	0.24
3700.00	28.500	30.300	3427.05	1274.96	1086.37	667.35	0.38
3790.00	29.400	30.600	3505.80	1318.51	1123.92	689.43	1.01
3880.00	28.600	32.000	3584.51	1362.14	1161.20	712.09	1.17
3970.00	27.500	31.300	3663.94	1404.46	1197.23	734.30	1.28
4061.00	26.500	36.300	3745.03	1445.72	1231.55	757.24	2.72
4150.00	26.500	35.200	3824.68	1485.33	1263.77	780.44	0.55
4238.00	26.300	33.400	3903.51	1524.42	1296.09	802.49	0.94
4328.00	25.800	35.300	3984.36	1563.90	1328.72	824.78	1.08
4417.00	25.700	33.800	4064.53	1602.51	1360.57	846.71	0.74
4507.00	23.200	32.700	4146.45	1639.75	1391.70	867.15	2.82
4595.00	23.600	33.800	4227.21	1674.68	1420.93	886.31	0.67
4683.00	24.300	31.000	4307.64	1710.39	1451.09	905.44	1.52
4773.00	25.300	28.900	4389.34	1748.12	1483.80	924.27	1.48
4862.00	25.700	29.200	4469.67	1786.39	1517.29	942.88	0.47
4950.00	25.800	27.500	4548.93	1824.55	1550.94	961.03	0.85

5041.00	25.600	28.200	4630.93	1863.92	1585.83	979.46	0.40
5130.00	25.100	27.500	4711.36	1901.94	1619.52	997.26	0.65
5218.00	25.800	27.800	4790.82	1939.65	1653.02	1014.81	0.81



Actual Wellpath Report

HOWARD 26-32 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANADARKO E&P COMPANY LP	Slot	SLOT#07 HOWARD 26-32 (2411'FNL & 1514'FEL)
Area	COLORADO	Well	HOWARD 26-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	HOWARD 26-32 AWB
Facility	SEC.32-T1N-R67W		

WELLPATH DATA (98 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
5308.00	26.000	31.300	4871.78	1978.92	1687.20	1034.20	1.71
5397.00	26.300	33.400	4951.68	2018.14	1720.33	1055.19	1.09
5486.00	27.200	34.100	5031.15	2058.17	1753.63	1077.44	1.07
5575.00	27.900	32.400	5110.06	2099.32	1788.06	1100.01	1.18
5664.00	27.900	32.400	5188.72	2140.96	1823.22	1122.32	0.00
5753.00	26.400	31.000	5267.91	2181.57	1857.76	1143.67	1.83
5842.00	25.800	32.700	5347.83	2220.72	1891.02	1164.33	1.08
5932.00	24.900	31.300	5429.17	2259.25	1923.70	1184.75	1.20
6021.00	26.200	32.400	5509.46	2297.63	1956.29	1205.01	1.55
6108.00	25.300	33.100	5587.82	2335.42	1988.08	1225.46	1.09
6198.00	25.800	32.400	5669.02	2374.23	2020.73	1246.45	0.65
6287.00	25.900	31.000	5749.12	2413.04	2053.75	1266.84	0.69
6377.00	25.800	31.700	5830.11	2452.28	2087.26	1287.26	0.36
6467.00	26.800	29.200	5910.80	2492.13	2121.63	1307.45	1.66
6555.00	24.900	30.300	5989.99	2530.47	2154.95	1326.47	2.23
6643.00	22.400	29.200	6070.59	2565.75	2185.59	1344.00	2.88
6732.00	20.800	29.600	6153.34	2598.48	2214.13	1360.08	1.81
6821.00	18.400	27.500	6237.18	2628.29	2240.33	1374.38	2.81
6910.00	16.500	29.900	6322.08	2654.93	2263.75	1387.16	2.28
6999.00	13.600	32.700	6408.02	2678.03	2283.52	1399.12	3.36
7087.00	12.500	34.100	6493.74	2697.89	2300.11	1410.05	1.30
7176.00	11.000	32.000	6580.88	2716.01	2315.29	1419.95	1.75
7266.00	9.300	33.100	6669.46	2731.86	2328.66	1428.47	1.90
7356.00	8.000	34.500	6758.44	2745.39	2339.92	1435.99	1.46
7447.00	6.100	37.700	6848.75	2756.53	2348.96	1442.53	2.13
7536.00	4.200	53.100	6937.39	2764.27	2354.66	1448.03	2.62
7671.00	1.300	61.200	7072.22	2770.21	2358.37	1453.33	2.16
7806.00	1.100	42.900	7207.19	2772.81	2360.06	1455.55	0.32
7939.00	0.900	26.100	7340.17	2775.10	2361.93	1456.88	0.27
8073.00	0.800	21.500	7474.15	2777.07	2363.74	1457.69	0.09
8208.00	0.800	29.200	7609.14	2778.94	2365.44	1458.49	0.08
8342.00	0.900	32.400	7743.13	2780.93	2367.15	1459.51	0.08
8476.00	0.800	19.700	7877.11	2782.89	2368.92	1460.39	0.16
8612.00	1.400	72.100	8013.09	2785.09	2370.32	1462.29	0.82
8747.00	1.100	32.400	8148.06	2787.64	2371.92	1464.56	0.66
8881.00	0.800	20.400	8282.04	2789.84	2373.89	1465.57	0.27
8976.00	0.700	339.700	8377.03	2790.85	2375.05	1465.60	0.56
9026.00	0.700	339.700	8427.03	2791.23	2375.63	1465.39	0.00

HOLE & CASING SECTIONS - Ref Wellbore: HOWARD 26-32 AWB Ref Wellpath: HOWARD 26-32 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]
12.25in Open Hole	15.00	1255.00	1240.00	15.00	1229.41	0.00	0.00	185.83	108.17
9.625in Casing Surface	15.00	1255.00	1240.00	15.00	1229.41	0.00	0.00	185.83	108.17
8.75in Open Hole	1255.00	9026.00	7771.00	1229.41	8427.03	185.83	108.17	2375.63	1465.39



Actual Wellpath Report

HOWARD 26-32 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANADARKO E&P COMPANY LP	Slot	SLOT#07 HOWARD 26-32 (2411'FNL & 1514'FEL)
Area	COLORADO	Well	HOWARD 26-32
Field	WELD COUNTY (KERR MCGEE)	Wellbore	HOWARD 26-32 AWB
Facility	SEC.32-T1N-R67W		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
HOWARD 26-3 GEO TARGET 50' RADIUS (50'FNL & 50'FEL,REV-1)		6000.00	2361.35	1462.11	3166642.69	1248760.70	40°00'52.920"N	104°54'18.148"W	circle
HOWARD 26-3 HARDLINE 50'E OF GEO TARGET		6000.00	2361.36	1512.14	3166692.71	1248761.04	40°00'52.920"N	104°54'17.505"W	point
HOWARD 26-3 HARDLINE 50'N OF GEO TARGET		6000.00	2411.36	1462.14	3166642.39	1248810.70	40°00'53.414"N	104°54'18.148"W	point

WELLPATH COMPOSITION - Ref Wellbore: HOWARD 26-32 AWB Ref Wellpath: HOWARD 26-32 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	1210.00	NaviTrak (Standard)	BHI MWD SURVEYS 12 1/4" HOLE <145-1210>	HOWARD 26-32 AWB
1210.00	8976.00	NaviTrak (Standard)	BHI MWD SURVEYS 7 7/8" HOLE <1298-8976>	HOWARD 26-32 AWB
8976.00	9026.00	Blind Drilling (std)	Projection to bit	HOWARD 26-32 AWB