



ANADARKO PETROLEUM

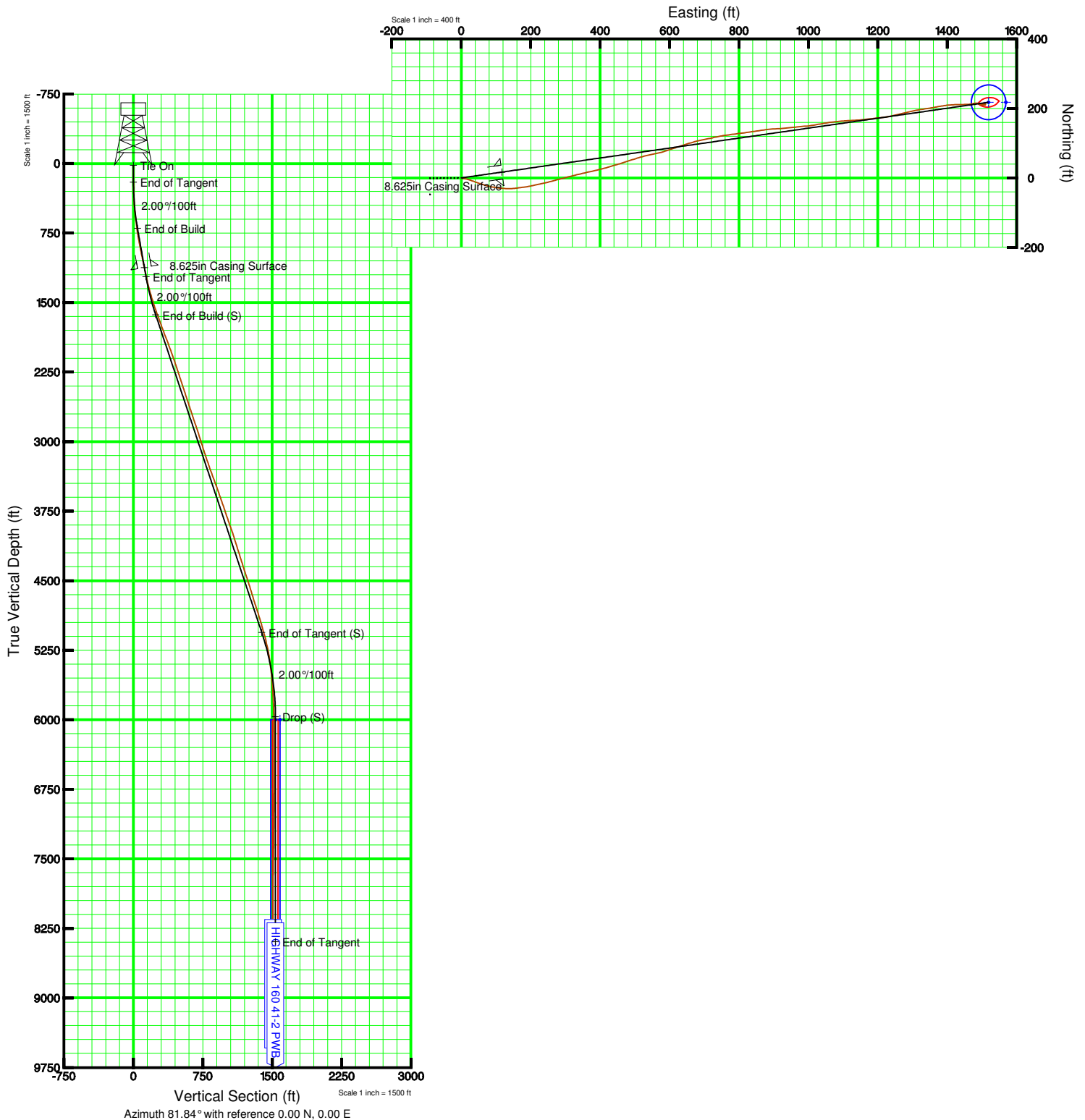
Location: COLORADO Slot: SLOT#13 HIGHWAY 160 41-2 (1496°FNL & 1569°FEL)
Field: WELD COUNTY (ANADARKO) Well: HIGHWAY 160 41-2
Facility: SEC.02-T1N-R66W Wellbore: HIGHWAY 160 41-2 PWB



INTEQ

Plot reference wellpath is HIGHWAY 160 41-2 (REV-A-0) PWP	
True vertical depths are referenced to XTREME 8 (RT)	Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet
Measured depths are referenced to XTREME 8 (RT)	North Reference: True north
XTREME 8 (RT) to Mean Sea Level: 5121 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: SEC.02-T1N-R66W): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: hoshkett on 10/30/2010

Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)
Tie On	17.00	0.000	81.839	17.00	0.00	0.00	0.00
End of Tangent	200.00	0.000	81.839	200.00	0.00	0.00	0.00
End of Build	700.00	10.000	81.839	697.47	6.18	43.08	2.00
End of Tangent	1230.00	10.000	81.839	1219.41	19.24	134.18	0.00
End of Build (S)	1655.00	18.500	81.839	1630.96	34.08	237.64	2.00
End of Tangent (S)	5269.36	18.500	81.839	5058.54	196.88	1372.88	0.00
Drop (S)	6194.36	0.000	81.839	5967.55	217.89	1519.43	2.00
End of Tangent	8620.81	0.000	81.839	8394.00	217.89	1519.43	0.00



ACTUAL WELLPATH REPORT (CSV version)
Prepared by Baker Hughes INTEQ
Software System: WellArchitect®2.0

REFERENCE WELLPATH IDENTIFICATION

Operator ANADARKO PETROLEUM
Area COLORADO
Field WELD COUNTY (ANADARKO)
Facility SEC.02-T1N-R66W
Slot SLOT#13 HIGHWAY 160 41-2 (1496'FNL & 1569'FEL)
Well HIGHWAY 160 41-2
Wellbore Highway 160 41-2 AWB
Wellpath Highway 160 41-2 AWB_awp
Sidetrack (none)

REPORT SETUP INFORMATION

Projection : NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet
North Refe TRUE
Scale 0.999961
Convergen 0.49° East
Software S WellArchitect®
User Hoshkevt
Report Ger 10/30/2010 at 2:33:45 PM
DataBase:\WellArchitectDB\ev910.xml

WELLPATH	Local North [ft]	Local East [ft]	Grid East [ft]	Grid North [ft]	Latitude	Longitude
Slot Locatic	-298.23	2485.39	3212529	1274084	40°04'59.7"	104°44'25.606"W
Facility Ref			3210042	1274362	40°05'02.6"	104°44'57.581"W
Field Refer			3197772	1268891	40°04'09.6"	104°47'36.000"W

WELLPATH DATUM

Calculation Minimum curvature
Horizontal I Slot
Vertical Re XTREME 8 (RT)
MD Refere XTREME 8 (RT)
Field Vertic Mean Sea Level
XTREME 8 5121.00ft
XTREME 8 5121.00ft
Facility Ver 0.00ft
Section Ori 0.00ft
Section Ori 0.00ft
Section Azi 81.84°

WELLPATH DATA Wellbore: Highway 160 41-2 AWB Wellpath: Highway 160 41-2 AWB_awp † = interpolated/extrapolated sta								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	
†	0	0	120.7	0	0	0	0	0
	17	0	120.7	17	0	0	0	0
	151	0.1	120.7	151	0.09	-0.06	0.1	0.07
	182	0.3	110.1	182	0.18	-0.1	0.2	0.65
	213	0.5	118.9	213	0.36	-0.19	0.39	0.67
	244	1.1	117.5	244	0.71	-0.4	0.78	1.94
	276	1.4	104.5	275.99	1.32	-0.64	1.43	1.28
	307	1.9	103.5	306.98	2.15	-0.85	2.29	1.62
	338	2.4	100.3	337.95	3.24	-1.09	3.43	1.66
	385	3.2	98.2	384.9	5.44	-1.45	5.7	1.72
	430	4.4	101	429.8	8.27	-1.96	8.64	2.7
	475	4.9	100.7	474.65	11.72	-2.65	12.22	1.11
	520	5.8	105.6	519.45	15.62	-3.61	16.3	2.24
	566	6.8	107	565.17	20.21	-5.04	21.14	2.2
	611	7.5	108.7	609.82	25.24	-6.76	26.47	1.62
	656	8.1	109.4	654.41	30.67	-8.75	32.24	1.35
	700	8.8	111.2	697.93	36.36	-11	38.31	1.7
	745	10	108	742.32	42.86	-13.45	45.23	2.91
	790	11	108.7	786.57	50.2	-16.03	53.01	2.24
	879	12.2	105.6	873.75	66.38	-21.28	70.11	1.52
	969	11.9	102.8	961.77	83.75	-25.9	88.32	0.73
	1059	12.7	96.4	1049.71	101.99	-29.06	107.2	1.76
	1097	12.8	94.3	1086.77	110.15	-29.84	115.55	1.25
	1192	11.8	92.2	1179.59	129.98	-31	135.75	1.15
	1237	12.6	85.9	1223.57	139.4	-30.83	145.25	3.45
	1282	13.2	81.7	1267.44	149.43	-29.73	155.23	2.47
	1326	13.9	82.7	1310.21	159.74	-28.34	165.44	1.68
	1370	14.9	84.5	1352.83	170.68	-27.12	176.31	2.49
	1415	15.8	79.9	1396.23	182.58	-25.49	188.1	3.36
	1461	16.7	78.9	1440.39	195.44	-23.12	200.76	2.05
	1505	17.4	77.8	1482.46	208.32	-20.52	213.39	1.75
	1550	18.4	78.2	1525.28	222.12	-17.64	226.92	2.24
	1596	19.2	76	1568.82	236.89	-14.33	241.37	2.32
	1686	20.3	75.3	1653.53	267.12	-6.78	270.83	1.25
	1777	20.2	75.7	1738.9	298.43	1.1	301.32	0.19
	1867	20.9	76	1823.18	329.84	8.82	331.95	0.79
	1956	21.2	77.4	1906.24	361.68	16.17	363.06	0.66
	2046	20.3	76.4	1990.4	393.45	23.4	394.12	1.07
	2135	19.4	73.9	2074.11	423.46	31.13	423.33	1.39
	2226	19.2	73.6	2160	453.24	39.54	452.2	0.25
	2316	18.2	71.5	2245.25	481.71	48.18	479.73	1.34

2406	18.5	72.5	2330.67	509.63	56.93	506.68	0.48
2497	18	77.4	2417.1	537.89	64.34	534.17	1.77
2588	18.5	78.2	2503.52	566.32	70.36	562.02	0.61
2676	18.5	71.8	2586.98	594	77.58	588.95	2.31
2767	18.6	71.5	2673.25	622.5	86.69	616.43	0.15
2858	19.1	72.2	2759.37	651.45	95.85	644.37	0.6
2948	18.5	73.9	2844.57	680.11	104.31	672.11	0.9
3039	18	79.9	2931	708.46	110.78	699.83	2.14
3130	17.7	76.7	3017.62	736.3	116.43	727.13	1.13
3220	17.2	81	3103.48	763.23	121.66	753.59	1.54
3310	19.2	82.7	3188.98	791.33	125.62	781.42	2.3
3401	19.3	82.7	3274.89	821.33	129.43	811.17	0.11
3490	20.7	81.7	3358.52	851.77	133.57	841.33	1.62
3579	19.8	81	3442.02	882.57	138.2	871.78	1.05
3668	19.6	87.3	3525.82	912.51	141.26	901.59	2.4
3759	19.4	85.5	3611.6	942.78	143.17	931.9	0.7
3849	19.3	83.1	3696.52	972.57	146.13	961.57	0.89
3939	18.2	85.5	3781.74	1001.47	149.02	990.34	1.49
4030	19.3	79.9	3867.92	1030.68	152.77	1019.32	2.32
4119	19.3	80.6	3951.92	1060.09	157.75	1048.31	0.26
4209	17.5	83.8	4037.31	1088.48	161.64	1076.44	2.29
4300	17.6	85.2	4124.08	1115.89	164.27	1103.75	0.48
4388	17.8	87.3	4207.91	1142.56	166.02	1130.45	0.76
4479	17.2	84.5	4294.7	1169.85	167.96	1157.73	1.14
4570	17.6	83.4	4381.54	1197.04	170.83	1184.79	0.57
4660	18.8	83.1	4467.04	1225.15	174.14	1212.71	1.34
4750	17.7	78.2	4552.51	1253.3	178.68	1240.5	2.1
4841	16.6	76.4	4639.46	1280.05	184.57	1266.67	1.34
4931	17.7	76	4725.46	1306.46	190.9	1292.45	1.23
5021	18.2	81.3	4811.09	1334.12	196.33	1319.62	1.9
5112	17.2	81	4897.78	1361.79	200.59	1346.95	1.1
5203	15.8	79.2	4985.03	1387.62	205.02	1372.41	1.64
5248	15.9	80.6	5028.32	1399.9	207.17	1384.51	0.88
5293	15.5	82.7	5071.64	1412.08	208.94	1396.56	1.54
5336	14.2	84.5	5113.2	1423.09	210.18	1407.51	3.21
5381	13.7	87.6	5156.88	1433.91	210.93	1418.33	2
5427	12.7	89.8	5201.66	1444.33	211.17	1428.83	2.43
5472	11.9	89.1	5245.63	1453.84	211.26	1438.41	1.81
5517	10.6	86.6	5289.76	1462.56	211.58	1447.18	3.08
5560	8.5	86.9	5332.16	1469.67	211.99	1454.3	4.89
5606	7.7	88.7	5377.7	1476.12	212.24	1460.78	1.82
5651	7.2	84.1	5422.32	1481.93	212.6	1466.6	1.73
5696	7	79.6	5466.98	1487.48	213.39	1472.1	1.31
5741	6.2	78.9	5511.68	1492.65	214.35	1477.18	1.79
5787	4.8	79.9	5557.47	1497.06	215.17	1481.52	3.05
5832	4	86.9	5602.34	1500.5	215.58	1484.94	2.14
5876	4	103.8	5646.23	1503.45	215.3	1487.96	2.67
5921	3.7	99.9	5691.13	1506.29	214.67	1490.91	0.88
5966	3.8	99.9	5736.03	1509.09	214.17	1493.81	0.22
6011	3.3	107	5780.95	1511.68	213.53	1496.52	1.48
6101	2.6	111.2	5870.83	1515.8	212.04	1500.9	0.81
6191	2.5	107.3	5960.74	1519.35	210.71	1504.68	0.22
6280	1.1	106.6	6049.69	1521.88	209.89	1507.35	1.57
6370	0.7	50.4	6139.68	1523.13	210	1508.6	1.02
6460	0.8	39.8	6229.67	1524.07	210.83	1509.43	0.19
6551	0.5	38.8	6320.67	1524.83	211.63	1510.08	0.33
6641	0.4	31.7	6410.66	1525.32	212.2	1510.49	0.13
6730	0.4	332.7	6499.66	1525.42	212.74	1510.52	0.44
6816	0.4	300	6585.66	1525.08	213.16	1510.12	0.26
6905	0.6	286.6	6674.66	1524.42	213.45	1509.4	0.26
6995	0.6	252.9	6764.65	1523.52	213.44	1508.5	0.39
7085	1	257.1	6854.64	1522.27	213.13	1507.28	0.45
7173	0.5	265.2	6942.64	1521.13	212.93	1506.15	0.58
7260	0.7	241.3	7029.63	1520.25	212.64	1505.31	0.36
7349	1.4	234.6	7118.62	1518.77	211.75	1503.95	0.8
7437	0.6	151.6	7206.61	1517.98	210.72	1503.29	1.65
7526	1.1	252.9	7295.6	1517.29	210.06	1502.69	1.52
7614	1.2	279.2	7383.58	1515.58	209.96	1500.98	0.6
7703	1.5	289.4	7472.56	1513.66	210.49	1498.96	0.43
7790	1.3	314	7559.53	1512.04	211.56	1497.17	0.72
7879	1.2	315.8	7648.51	1510.88	212.93	1495.8	0.12
7967	0.9	317.6	7736.5	1509.94	214.1	1494.69	0.34
8055	0.9	316.9	7824.48	1509.16	215.11	1493.75	0.01
8145	0.4	347.4	7914.48	1508.73	215.93	1493.2	0.66
8232	0.1	346.4	8001.48	1508.7	216.31	1493.12	0.34
8329	0.1	178	8098.48	1508.68	216.3	1493.1	0.21
8385	0.1	178	8154.48	1508.67	216.21	1493.1	0

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape	Comment
HIGHWAY 160 41-2 G		6000	217.89	1519.43	3214047	1274315	40°05'01.81	104°44'06.1	circle	
HIGHWAY 160 41-2 H		6000	217.89	1569.43	3214097	1274316	40°05'01.81	104°44'05.1	point	

WELLPATH COMPOSITION Ref Wellbore: Highway 160 41-2 AWB Ref Wellpath: Highway 160 41-2 AWB_awp

Log Name/	Start MD	End MD	Pos Unc Model
	[ft]	[ft]	
UPA Surve	17	8329	NaviTrak (Standard)
Projection t	8329	8385	Blind Drilling (std)