

30-015-39136



Actual Wellpath Report

No.14HAWP

Page 1 of 3


**BAKER
HUGHES**

REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, LP.	Slot	No.14HSHL
Area	Eddy County, NM	Well	No.14H
Field	(North Indian) Sec 24, T21S, R28E, NAD27	Wellbore	No.14HAWB
Facility	North Indian Flats 24 Fed No.14H		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Gentry
Scale	0.999919	Report Generated	7/11/2011 at 7:04:03 AM
Convergence at slot	0.16° East	Database/Source file	WA Midland/No.14H_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	591041.95	535867.16	32°28'22.312"N	104°02'17.232"W
Facility Reference Pt			591041.95	535867.16	32°28'22.312"N	104°02'17.232"W
Field Reference Pt			591041.95	535867.16	32°28'22.312"N	104°02'17.232"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No.14H(KB) to Facility Vertical Datum	13.00ft
Horizontal Reference Pt	Slot	Rig on No.14H(KB) to Mean Sea Level	3288.00ft
Vertical Reference Pt	Rig on No.14H(KB)	Rig on No.14H(KB) to Mud Line at Slot (No.14HSHL)	13.00ft
MD Reference Pt	Rig on No.14H(KB)	Section Origin	N0.00, E0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	180.05°



Actual Wellpath Report

No.14HAWP

Page 2 of 3



**BAKER
HUGHES**

REFERENCE WELL PATH ID INDICATION			
Operator	BOPCO, L.P.	Slot	No.14HSHL
Area	Eddy County, NM	Well	No.14H
Field	(North Indian) Sec 24, T21S, R28E, NAD27	Wellbore	No.14HAWB
Facility	North Indian Flats 24 Fed No.14H		

WELL PATH DATA (33 stations) † = interpolated/extrapolated station											
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]
0.00†	0.00	88.00	0.00	0.00	0.00	0.00	591041.95	535867.16	32°28'22.312"N	104°02'17.232"W	0.00
13.00	0.00	88.00	13.00	0.00	0.00	0.00	591041.95	535867.16	32°28'22.312"N	104°02'17.232"W	0.00
448.00	0.70	88.00	447.99	-0.10	0.09	2.66	591044.61	535867.25	32°28'22.313"N	104°02'17.201"W	0.16
506.00	0.80	96.60	505.98	-0.06	0.06	3.41	591045.36	535867.22	32°28'22.312"N	104°02'17.192"W	0.26
598.00	0.90	85.30	597.97	-0.05	0.04	4.77	591046.72	535867.20	32°28'22.312"N	104°02'17.177"W	0.21
690.00	0.90	75.10	689.96	-0.29	0.29	6.19	591048.14	535867.45	32°28'22.314"N	104°02'17.160"W	0.17
783.00	1.30	68.90	782.95	-0.86	0.86	7.88	591049.83	535868.02	32°28'22.320"N	104°02'17.140"W	0.45
878.00	1.10	48.70	877.93	-1.85	1.85	9.57	591051.52	535869.01	32°28'22.330"N	104°02'17.121"W	0.49
972.00	1.90	47.80	971.89	-3.50	3.49	11.40	591053.35	535870.65	32°28'22.346"N	104°02'17.099"W	0.85
1066.00	1.10	37.10	1065.86	-5.27	5.26	13.10	591055.05	535872.41	32°28'22.363"N	104°02'17.079"W	0.90
1160.00	1.10	59.20	1159.84	-6.45	6.44	14.42	591056.37	535873.60	32°28'22.375"N	104°02'17.064"W	0.45
1255.00	0.90	53.60	1254.83	-7.36	7.35	15.80	591057.75	535874.51	32°28'22.384"N	104°02'17.048"W	0.23
1349.00	1.40	56.60	1348.81	-8.43	8.42	17.36	591059.30	535875.58	32°28'22.394"N	104°02'17.029"W	0.54
1444.00	1.10	66.40	1443.79	-9.44	9.42	19.16	591061.11	535876.58	32°28'22.404"N	104°02'17.008"W	0.39
1539.00	1.40	114.00	1538.77	-9.33	9.31	21.06	591063.00	535876.47	32°28'22.403"N	104°02'16.986"W	1.10
1633.00	1.50	123.70	1632.74	-8.18	8.16	23.13	591065.08	535875.32	32°28'22.392"N	104°02'16.962"W	0.28
1728.00	1.60	153.40	1727.70	-6.31	6.29	24.76	591066.71	535873.45	32°28'22.373"N	104°02'16.943"W	0.84
1824.00	0.70	145.10	1823.68	-4.63	4.61	25.69	591067.64	535871.77	32°28'22.357"N	104°02'16.932"W	0.95
1919.00	0.50	115.70	1918.68	-3.98	3.95	26.40	591068.35	535871.11	32°28'22.350"N	104°02'16.924"W	0.38
2012.00	0.50	42.30	2011.67	-4.10	4.08	27.04	591068.98	535871.24	32°28'22.351"N	104°02'16.917"W	0.64
2105.00	0.80	359.80	2104.67	-5.05	5.03	27.31	591069.26	535872.19	32°28'22.361"N	104°02'16.913"W	0.59
2200.00	1.00	30.80	2199.66	-6.43	6.40	27.73	591069.68	535873.56	32°28'22.374"N	104°02'16.908"W	0.55
2295.00	1.30	354.80	2294.64	-8.21	8.19	28.06	591070.00	535875.35	32°28'22.392"N	104°02'16.905"W	0.81
2390.00	1.30	328.30	2389.62	-10.20	10.18	27.39	591069.34	535877.34	32°28'22.412"N	104°02'16.912"W	0.63
2484.00	0.60	252.80	2483.61	-10.96	10.94	26.36	591068.31	535878.10	32°28'22.419"N	104°02'16.924"W	1.37
2577.00	0.70	261.60	2576.60	-10.73	10.71	25.34	591067.28	535877.87	32°28'22.417"N	104°02'16.936"W	0.15
2672.00	0.80	246.70	2671.59	-10.39	10.36	24.15	591066.10	535877.52	32°28'22.414"N	104°02'16.950"W	0.23
2767.00	0.60	203.80	2766.58	-9.67	9.65	23.34	591065.29	535876.81	32°28'22.406"N	104°02'16.960"W	0.57
2862.00	0.60	176.50	2861.58	-8.72	8.70	23.17	591065.12	535875.86	32°28'22.397"N	104°02'16.962"W	0.30
2957.00	0.70	179.10	2956.57	-7.64	7.62	23.21	591065.16	535874.78	32°28'22.386"N	104°02'16.961"W	0.11
3050.00	0.70	184.30	3049.57	-6.50	6.48	23.18	591065.13	535873.64	32°28'22.375"N	104°02'16.962"W	0.07
3143.00	0.60	189.10	3142.56	-5.46	5.44	23.06	591065.01	535872.60	32°28'22.365"N	104°02'16.963"W	0.12
3200.00	0.60	189.10	3199.56	-4.87	4.85	22.96	591064.91	535872.01	32°28'22.359"N	104°02'16.964"W	0.00



Actual Wellpath Report

No. 14HAWP

Page 3 of 3



REFERENCE WELL PATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 14HSHL
Area	Eddy County, NM	Well	No. 14H
Field	(North Indian) Sec 24, T21S, R28E, NAD27	Wellbore	No. 14HAWB
Facility	North Indian Flats 24 Fed No. 14H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No. 14HPBHL		2910.00	-800.01	-0.70	591041.25	535067.22	32°28'14.396"N	104°02'17.266"W	point

WELLPATH COMPOSITION - Ref Wellbore: No. 14HAWB Ref Wellpath: No. 14HAWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	3200.00	NaviTrak (Standard)	MWD (Vertical Hole)	No. 14HAWB