

ACTUAL WELLPATH REPORT (CSV version)

Prepared by Baker Hughes INTEQ

Software System: WellArchitect@2.0

REFERENCE WELLPATH IDENTIFICATION

Operator Yates Petroleum Corporation

Area Eddy County, NM

Field (Crow) Sec 32, T16S, R28E

Facility Crow ASM State COM No. 2H

Slot No. 2H SHL

Well No. 2H

Wellbore No. 2H AWB

Wellpath No. 2H AWP

Sidetrack (none)

30-015-37061

REPORT SETUP INFORMATION

Projection : NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet

North Refe Grid

Scale 0.999911

Convergen 0.08° East

Software S WellArchitect@

User Victor Hernandez

Report Ger 9/1/2010 at 8:08:51 AM

DataBase/! WA_Midland/ev139140.xml

WELLPATI	Local North	Local East	Grid East	Grid North	Latitude	Longitude
	[ft]	[ft]	[ft]	[ft]		
Slot Locati	0	0	584989.6	684807.2	32°52'56.9	104°11'28.090"W
Facility Ref			584989.6	684807.2	32°52'56.9	104°11'28.090"W
Field Refer			584989.6	684807.2	32°52'56.9	104°11'28.090"W

WELLPATH DATUM

Calculation Minimum curvature

Horizontal SL

Vertical Re Rig on No. 2H SHL (KB)

MD Refere Rig on No. 2H SHL (KB)

Field Vertic Mean Sea Level

Rig on No. 18.80ft
Rig on No. 3568.80ft
GL to Mud 0.00ft
Section Ori 0.00ft
Section Ori 0.00ft
Section Azi 279.36°

WELL PATH DATA Wellbore: No. 2H AWB Wellpath: No. 2H AWP † = interpolated/extrapolated station											
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	DLS
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[srv ft]	[srv ft]			[°/100ft]
0	0	224.42	0	0	0	0	584989.6	684807.2	32°52'56.9" 104°11'28.1"		0
200	0.54	224.42	200	0.54	-0.67	-0.66	584988.9	684806.5	32°52'56.8" 104°11'28.1"		0.27
400	0.53	227.54	399.99	1.65	-1.97	-2	584987.6	684805.2	32°52'56.8" 104°11'28.1"		0.02
600	0.39	235.9	599.98	2.72	-2.98	-3.25	584986.4	684804.2	32°52'56.8" 104°11'28.1"		0.08
800	0.19	283.22	799.98	3.55	-3.28	-4.13	584985.5	684803.9	32°52'56.8" 104°11'28.1"		0.15
1000	0.29	299.96	999.98	4.35	-2.95	-4.9	584984.7	684804.3	32°52'56.8" 104°11'28.1"		0.06
1200	0.24	321.25	1199.98	5.14	-2.37	-5.6	584984	684804.8	32°52'56.8" 104°11'28.1"		0.05
1400	0.22	171.17	1399.97	5.33	-2.43	-5.8	584983.8	684804.8	32°52'56.8" 104°11'28.1"		0.22
1600	0.26	171.93	1599.97	5.07	-3.26	-5.68	584983.9	684803.9	32°52'56.8" 104°11'28.1"		0.02
1800	0.09	341.6	1799.97	5.01	-3.56	-5.66	584983.9	684803.6	32°52'56.8" 104°11'28.1"		0.17
2000	0.23	45.97	1999.97	4.84	-3.13	-5.42	584984.2	684804.1	32°52'56.8" 104°11'28.1"		0.1
2200	0.38	19.51	2199.97	4.49	-2.22	-4.91	584984.7	684805	32°52'56.8" 104°11'28.1"		0.1
2400	0.48	11.43	2399.96	4.34	-0.78	-4.53	584985.1	684806.4	32°52'56.8" 104°11'28.1"		0.06
2600	0.61	8.03	2599.95	4.33	1.1	-4.21	584985.4	684808.3	32°52'56.9" 104°11'28.1"		0.07
2800	0.42	4.36	2799.95	4.42	2.88	-4.01	584985.6	684810.1	32°52'56.9" 104°11'28.1"		0.1
3000	0.43	9.37	2999.94	4.49	4.35	-3.83	584985.8	684811.6	32°52'56.9" 104°11'28.1"		0.02
3200	0.57	2.43	3199.93	4.61	6.09	-3.66	584985.9	684813.3	32°52'56.9" 104°11'28.1"		0.08
3400	0.47	349.2	3399.92	5.01	7.89	-3.78	584985.8	684815.1	32°52'56.9" 104°11'28.1"		0.08
3600	0.6	351.31	3599.92	5.62	9.73	-4.09	584985.5	684816.9	32°52'57.0" 104°11'28.1"		0.07
3800	0.34	347.07	3799.91	6.17	11.34	-4.38	584985.2	684818.5	32°52'57.0" 104°11'28.1"		0.13
4000	0.2	350	3999.91	6.51	12.26	-4.57	584985	684819.5	32°52'57.0" 104°11'28.1"		0.07
4200	0.22	345.7	4199.91	6.78	12.98	-4.73	584984.9	684820.2	32°52'57.0" 104°11'28.1"		0.01
4400	0.18	359.6	4399.9	6.98	13.67	-4.82	584984.8	684820.9	32°52'57.0" 104°11'28.1"		0.03
4600	0.05	13.92	4599.9	7.03	14.07	-4.81	584984.8	684821.3	32°52'57.0" 104°11'28.1"		0.07
4800	0.09	296.34	4799.9	7.17	14.22	-4.93	584984.7	684821.4	32°52'57.0" 104°11'28.1"		0.05
5000	0.04	27.49	4999.9	7.3	14.35	-5.03	584984.6	684821.6	32°52'57.0" 104°11'28.1"		0.05

5200	0.25	94.9	5199.9	6.85	14.38	-4.57	584985	684821.6	32°52'57.0	104°11'28.	0.12
5400	0.57	108.09	5399.9	5.43	14.03	-3.19	584986.4	684821.2	32°52'57.0	104°11'28.	0.17
5600	0.66	125.72	5599.89	3.41	13.05	-1.31	584988.3	684820.3	32°52'57.0	104°11'28.	0.1
5800	0.78	112.11	5799.87	1.05	11.86	0.89	584990.5	684819.1	32°52'57.0	104°11'28.	0.1
5930	1.05	103.74	5929.85	-1	11.25	2.87	584992.5	684818.5	32°52'57.0	104°11'28.	0.23
6065	1.5	89.8	6064.82	-3.97	10.96	5.84	584995.4	684818.2	32°52'57.0	104°11'28.	0.4
6097	0.5	297.9	6096.82	-4.26	11.03	6.13	584995.7	684818.2	32°52'57.0	104°11'28.	6.11
6128	4.8	284	6127.78	-2.83	11.4	4.75	584994.4	684818.6	32°52'57.0	104°11'28.	13.92
6160	10.3	282.3	6159.49	1.36	12.34	0.65	584990.3	684819.5	32°52'57.0	104°11'28.	17.2
6192	15.7	276.7	6190.66	8.55	13.45	-6.45	584983.2	684820.7	32°52'57.0	104°11'28.	17.31
6224	19.4	273.8	6221.16	18.17	14.31	-16.05	584973.6	684821.5	32°52'57.0	104°11'28.	11.88
6256	19.7	274.8	6251.32	28.83	15.12	-26.73	584962.9	684822.3	32°52'57.0	104°11'28.	1.4
6287	19.7	275.9	6280.5	39.26	16.09	-37.13	584952.5	684823.3	32°52'57.0	104°11'28.	1.2
6319	19.4	275.3	6310.66	49.94	17.13	-47.79	584941.8	684824.3	32°52'57.0	104°11'28.	1.13
6351	22.1	275.7	6340.58	61.25	18.22	-59.07	584930.5	684825.4	32°52'57.0	104°11'28.	8.45
6383	25.9	278.3	6369.81	74.25	19.83	-71.99	584917.6	684827	32°52'57.1	104°11'28.	12.32
6415	30.2	281.9	6398.05	89.29	22.5	-86.78	584902.8	684829.7	32°52'57.1	104°11'29.	14.44
6447	34	283.9	6425.15	106.25	26.31	-103.35	584886.3	684833.5	32°52'57.1	104°11'29.	12.33
6479	39.1	283	6450.85	125.26	30.73	-121.88	584867.7	684837.9	32°52'57.2	104°11'29.	16.02
6511	44.8	282.4	6474.64	146.6	35.43	-142.74	584846.9	684842.6	32°52'57.2	104°11'29.	17.86
6542	49	282.2	6495.81	169.2	40.25	-164.85	584824.8	684847.4	32°52'57.3	104°11'30.	13.56
6574	52.9	281.8	6515.97	194.02	45.41	-189.16	584800.5	684852.6	32°52'57.3	104°11'30.	12.23
6606	56	281.8	6534.57	220.03	50.73	-214.64	584775	684857.9	32°52'57.4	104°11'30.	9.69
6637	59	281.3	6551.23	246.16	55.97	-240.25	584749.4	684863.2	32°52'57.4	104°11'30.	9.77
6669	63.2	281	6566.69	274.15	61.38	-267.73	584721.9	684868.6	32°52'57.5	104°11'31.	13.15
6700	68.4	279.4	6579.39	302.41	66.38	-295.55	584694.1	684873.6	32°52'57.5	104°11'31.	17.42
6730	73.4	277.6	6589.21	330.75	70.56	-323.58	584666.1	684877.8	32°52'57.6	104°11'31.	17.6
6763	79.5	276.1	6596.94	362.78	74.38	-355.42	584634.2	684881.6	32°52'57.6	104°11'32.	19.01
6795	83	276.3	6601.8	394.36	77.8	-386.85	584602.8	684885	32°52'57.6	104°11'32.	10.95
6826	86.1	276.1	6604.75	425.17	81.13	-417.53	584572.1	684888.3	32°52'57.7	104°11'32.	10.02
6858	89.3	276	6606.03	457.08	84.5	-449.32	584540.3	684891.7	32°52'57.7	104°11'33.	10
6890	90.3	276.5	6606.14	489.03	87.98	-481.13	584508.5	684895.2	32°52'57.7	104°11'33.	3.49
6921	90.3	276.7	6605.98	520	91.54	-511.92	584477.7	684898.7	32°52'57.8	104°11'34.	0.65
6953	90.5	276.4	6605.76	551.96	95.19	-543.71	584445.9	684902.4	32°52'57.8	104°11'34.	1.13
6985	90.5	276.6	6605.48	583.92	98.82	-575.51	584414.1	684906	32°52'57.8	104°11'34.	0.62
7017	90	276.8	6605.34	615.88	102.55	-607.29	584382.4	684909.7	32°52'57.9	104°11'35.	1.68
7049	90	277	6605.34	647.85	106.39	-639.06	584350.6	684913.6	32°52'57.9	104°11'35.	0.62

7081	88.9	277.8	6605.65	679.83	110.52	-670.79	584318.9	684917.7	32°52'58.0	104°11'35.1	4.25
7112	88.6	277.8	6606.32	710.81	114.72	-701.49	584288.2	684921.9	32°52'58.0	104°11'36.1	0.97
7144	88.7	278	6607.08	742.79	119.12	-733.18	584256.5	684926.3	32°52'58.0	104°11'36.1	0.7
7176	89.5	278	6607.58	774.78	123.57	-764.87	584224.8	684930.8	32°52'58.1	104°11'37.1	2.5
7208	89.6	278.2	6607.83	806.77	128.08	-796.55	584193.1	684935.3	32°52'58.1	104°11'37.1	0.7
7240	89.7	278.7	6608.03	838.77	132.78	-828.2	584161.5	684940	32°52'58.2	104°11'37.1	1.59
7271	89.1	279.3	6608.35	869.76	137.63	-858.81	584130.9	684944.8	32°52'58.2	104°11'38.1	2.74
7303	89.1	279.2	6608.85	901.76	142.78	-890.39	584099.3	684950	32°52'58.3	104°11'38.1	0.31
7334	89.2	279.6	6609.31	932.76	147.84	-920.97	584068.7	684955	32°52'58.3	104°11'38.1	1.33
7366	89.4	279.4	6609.7	964.75	153.12	-952.53	584037.2	684960.3	32°52'58.4	104°11'39.1	0.88
7398	89.5	279.8	6610.01	996.75	158.46	-984.08	584005.6	684965.6	32°52'58.4	104°11'39.1	1.29
7429	89.5	280.1	6610.28	1027.75	163.81	-1014.62	583975.1	684971	32°52'58.5	104°11'39.1	0.97
7461	89.7	280.2	6610.5	1059.74	169.45	-1046.11	583943.6	684976.6	32°52'58.5	104°11'40.1	0.7
7493	89	280.5	6610.87	1091.74	175.2	-1077.59	583912.1	684982.4	32°52'58.6	104°11'40.1	2.38
7525	89.1	280.6	6611.4	1123.73	181.06	-1109.05	583880.7	684988.2	32°52'58.7	104°11'41.1	0.44
7556	89.4	280.4	6611.8	1154.72	186.71	-1139.52	583850.2	684993.9	32°52'58.7	104°11'41.1	1.16
7588	89.6	280.5	6612.08	1186.71	192.51	-1170.99	583818.7	684999.7	32°52'58.8	104°11'41.1	0.7
7619	89.6	279.9	6612.3	1217.71	198	-1201.5	583788.2	685005.2	32°52'58.8	104°11'42.1	1.94
7651	89.1	281.1	6612.66	1249.7	203.83	-1232.96	583756.8	685011	32°52'58.9	104°11'42.1	4.06
7683	89	280.9	6613.19	1281.68	209.94	-1264.37	583725.3	685017.1	32°52'58.9	104°11'42.1	0.7
7715	88.9	281.2	6613.78	1313.66	216.07	-1295.77	583694	685023.3	32°52'59.0	104°11'43.1	0.99
7747	88.9	281.3	6614.39	1345.64	222.31	-1327.15	583662.6	685029.5	32°52'59.1	104°11'43.1	0.31
7779	88.8	281.4	6615.04	1377.61	228.61	-1358.52	583631.2	685035.8	32°52'59.1	104°11'44.1	0.44
7811	88.8	281.8	6615.71	1409.58	235.04	-1389.86	583599.9	685042.2	32°52'59.2	104°11'44.1	1.25
7842	88.9	282	6616.33	1440.54	241.43	-1420.19	583569.5	685048.6	32°52'59.3	104°11'44.1	0.72
7874	88.8	282.2	6616.97	1472.5	248.14	-1451.47	583538.3	685055.3	32°52'59.3	104°11'45.1	0.7
7906	89	282.2	6617.59	1504.46	254.9	-1482.74	583507	685062.1	32°52'59.4	104°11'45.1	0.62
7938	88.9	282.4	6618.17	1536.41	261.71	-1514	583475.7	685068.9	32°52'59.5	104°11'45.1	0.7
7970	89	282.6	6618.76	1568.36	268.64	-1545.24	583444.5	685075.8	32°52'59.5	104°11'46.1	0.7
8002	89.5	282.4	6619.18	1600.3	275.56	-1576.48	583413.3	685082.7	32°52'59.6	104°11'46.1	1.68
8034	90	282.1	6619.32	1632.26	282.35	-1607.75	583382	685089.5	32°52'59.7	104°11'46.1	1.82
8066	90.5	282	6619.18	1664.23	289.03	-1639.04	583350.7	685096.2	32°52'59.7	104°11'47.1	1.59
8097	90.7	281.9	6618.85	1695.19	295.45	-1669.37	583320.4	685102.6	32°52'59.8	104°11'47.1	0.72
8129	91.1	282.4	6618.35	1727.15	302.19	-1700.65	583289.1	685109.4	32°52'59.9	104°11'48.1	2
8161	90.5	282.5	6617.9	1759.1	309.08	-1731.89	583257.9	685116.3	32°52'59.9	104°11'48.1	1.9
8192	89.7	281.9	6617.85	1790.06	315.64	-1762.19	583227.6	685122.8	32°53'00.0	104°11'48.1	3.23
8224	89.5	282.4	6618.07	1822.03	322.37	-1793.47	583196.3	685129.5	32°53'00.1	104°11'49.1	1.68

8255	89.4	282	6618.37	1852.99	328.92	-1823.77	583166	685136.1	32°53'00.1	104°11'49.	1.33
8287	89.2	282.2	6618.76	1884.95	335.63	-1855.06	583134.7	685142.8	32°53'00.2	104°11'49.	0.88
8319	89.4	282.4	6619.15	1916.9	342.45	-1886.32	583103.5	685149.6	32°53'00.3	104°11'50.	0.88
8351	89	282.1	6619.6	1948.86	349.23	-1917.59	583072.2	685156.4	32°53'00.3	104°11'50.	1.56
8382	88.4	282.1	6620.3	1979.82	355.73	-1947.89	583041.9	685162.9	32°53'00.4	104°11'50.	1.94
8414	88.5	281.9	6621.17	2011.77	362.38	-1979.18	583010.6	685169.6	32°53'00.5	104°11'51.	0.7
8445	88.5	282.1	6621.98	2042.73	368.82	-2009.49	582980.3	685176	32°53'00.5	104°11'51.	0.64
8477	89.4	281.6	6622.57	2074.69	375.39	-2040.81	582949	685182.6	32°53'00.6	104°11'52.	3.22
8509	89.6	281.6	6622.84	2106.67	381.83	-2072.15	582917.6	685189	32°53'00.7	104°11'52.	0.62
8541	89.5	281.5	6623.1	2138.64	388.24	-2103.5	582886.3	685195.4	32°53'00.7	104°11'52.	0.44
8573	89.7	281.2	6623.32	2170.62	394.53	-2134.88	582854.9	685201.7	32°53'00.8	104°11'53.	1.13
8605	90.3	281.2	6623.32	2202.6	400.75	-2166.27	582823.5	685207.9	32°53'00.8	104°11'53.	1.87
8636	90.5	280.9	6623.1	2233.59	406.69	-2196.69	582793.1	685213.9	32°53'00.9	104°11'53.	1.16
8668	90.6	281	6622.8	2265.58	412.77	-2228.11	582761.7	685219.9	32°53'01.0	104°11'54.	0.44
8700	90.7	280.8	6622.43	2297.56	418.82	-2259.53	582730.3	685226	32°53'01.0	104°11'54.	0.7
8731	91	280.9	6621.97	2328.55	424.65	-2289.97	582699.8	685231.8	32°53'01.1	104°11'54.	1.02
8762	91.2	281	6621.38	2359.53	430.54	-2320.4	582669.4	685237.7	32°53'01.1	104°11'55.	0.72
8794	90.6	280.9	6620.87	2391.51	436.62	-2351.81	582638	685243.8	32°53'01.2	104°11'55.	1.9
8826	90.4	280.5	6620.6	2423.5	442.56	-2383.26	582606.6	685249.7	32°53'01.3	104°11'56.	1.4
8858	90.4	280.5	6620.37	2455.5	448.39	-2414.72	582575.1	685255.6	32°53'01.3	104°11'56.	0
8890	90.5	280.5	6620.12	2487.49	454.22	-2446.18	582543.6	685261.4	32°53'01.4	104°11'56.	0.31
8922	90.5	280.3	6619.84	2519.48	460	-2477.66	582512.2	685267.2	32°53'01.4	104°11'57.	0.62
8953	90.6	280.4	6619.54	2550.48	465.57	-2508.15	582481.7	685272.7	32°53'01.5	104°11'57.	0.46
8985	90.6	280.5	6619.21	2582.47	471.37	-2539.62	582450.2	685278.5	32°53'01.6	104°11'57.	0.31
9017	90.7	280.6	6618.85	2614.46	477.23	-2571.07	582418.8	685284.4	32°53'01.6	104°11'58.	0.44
9049	90.7	280.2	6618.46	2646.45	483.01	-2602.55	582387.3	685290.2	32°53'01.7	104°11'58.	1.25
9081	90.8	280.2	6618.04	2678.45	488.67	-2634.04	582355.8	685295.8	32°53'01.7	104°11'58.	0.31
9112	91.3	279.9	6617.47	2709.44	494.08	-2664.56	582325.3	685301.2	32°53'01.8	104°11'59.	1.88
9144	91.4	280	6616.71	2741.43	499.61	-2696.07	582293.8	685306.8	32°53'01.8	104°11'59.	0.44
9176	91.9	279.8	6615.79	2773.41	505.11	-2727.58	582262.3	685312.3	32°53'01.9	104°12'00.	1.68
9208	92.3	279.9	6614.62	2805.39	510.58	-2759.08	582230.8	685317.7	32°53'01.9	104°12'00.	1.29
9239	92.4	280	6613.35	2836.36	515.93	-2789.59	582200.3	685323.1	32°53'02.0	104°12'00.	0.46
9271	93	280.2	6611.84	2868.33	521.54	-2821.06	582168.8	685328.7	32°53'02.1	104°12'01.	1.98
9303	93.3	280.4	6610.08	2900.27	527.25	-2852.5	582137.4	685334.4	32°53'02.1	104°12'01.	1.13
9335	93.1	280.4	6608.3	2932.22	533.02	-2883.92	582105.9	685340.2	32°53'02.2	104°12'01.	0.62
9367	93	279.7	6606.59	2964.17	538.59	-2915.39	582074.5	685345.7	32°53'02.2	104°12'02.	2.21
9399	93.2	279.1	6604.86	2996.12	543.81	-2946.91	582043	685351	32°53'02.3	104°12'02.	1.97

9430	92.6	278.4	6603.3	3027.08	548.52	-2977.51	582012.4	685355.7	32°53'02.3	104°12'02.1	2.97
9462	92.4	278.4	6601.9	3059.05	553.19	-3009.14	581980.7	685360.3	32°53'02.4	104°12'03.1	0.62
9494	92.6	278.5	6600.5	3091.01	557.89	-3040.76	581949.1	685365	32°53'02.4	104°12'03.1	0.7
9526	92.8	278.8	6599	3122.97	562.7	-3072.36	581917.5	685369.9	32°53'02.5	104°12'04.1	1.13
9558	92.8	278.4	6597.43	3154.93	567.48	-3103.96	581885.9	685374.6	32°53'02.5	104°12'04.1	1.25
9590	92.4	278.4	6595.98	3186.9	572.15	-3135.59	581854.3	685379.3	32°53'02.6	104°12'04.1	1.25
9622	91.6	278.1	6594.86	3218.87	576.74	-3167.24	581822.7	685383.9	32°53'02.6	104°12'05.1	2.67
9653	91.4	278.3	6594.05	3249.85	581.16	-3197.91	581792	685388.3	32°53'02.6	104°12'05.1	0.91
9685	91.5	277.7	6593.24	3281.83	585.61	-3229.59	581760.3	685392.8	32°53'02.7	104°12'05.1	1.9
9716	91.5	277.6	6592.43	3312.81	589.73	-3260.3	581729.6	685396.9	32°53'02.7	104°12'06.1	0.32
9748	91.5	277.7	6591.59	3344.78	593.99	-3292	581697.9	685401.1	32°53'02.8	104°12'06.1	0.31
9779	91.8	277.6	6590.7	3375.76	598.12	-3322.72	581667.2	685405.3	32°53'02.8	104°12'07.1	1.02
9811	92.2	278.1	6589.58	3407.73	602.48	-3354.4	581635.5	685409.6	32°53'02.9	104°12'07.1	2
9843	92.5	278.1	6588.27	3439.69	606.99	-3386.05	581603.9	685414.1	32°53'02.9	104°12'07.1	0.94
9875	92.3	277.6	6586.93	3471.65	611.36	-3417.72	581572.2	685418.5	32°53'02.9	104°12'08.1	1.68
9907	92	277.1	6585.73	3503.61	615.45	-3449.44	581540.5	685422.6	32°53'03.0	104°12'08.1	1.82
9938	91.9	276.9	6584.68	3534.56	619.22	-3480.19	581509.7	685426.4	32°53'03.0	104°12'08.1	0.72
9970	92	277	6583.59	3566.52	623.09	-3511.94	581478	685430.2	32°53'03.1	104°12'09.1	0.44
10001	91.9	276.6	6582.53	3597.47	626.76	-3542.7	581447.2	685433.9	32°53'03.1	104°12'09.1	1.33
10033	91.6	276.5	6581.56	3629.42	630.41	-3574.48	581415.5	685437.6	32°53'03.1	104°12'09.1	0.99
10065	90.9	276.6	6580.86	3661.37	634.06	-3606.26	581383.7	685441.2	32°53'03.2	104°12'10.1	2.21
10097	90.8	277.1	6580.38	3693.33	637.88	-3638.03	581351.9	685445	32°53'03.2	104°12'10.1	1.59
10128	91	277.3	6579.9	3724.31	641.76	-3668.78	581321.2	685448.9	32°53'03.3	104°12'11.1	0.91
10160	91	277.8	6579.34	3756.29	645.96	-3700.5	581289.4	685453.1	32°53'03.3	104°12'11.1	1.56
10192	91.4	277.3	6578.67	3788.26	650.17	-3732.21	581257.7	685457.3	32°53'03.3	104°12'11.1	2
10224	91.6	277.6	6577.83	3820.24	654.32	-3763.93	581226	685461.5	32°53'03.4	104°12'12.1	1.13
10256	92	277.3	6576.83	3852.2	658.46	-3795.64	581194.3	685465.6	32°53'03.4	104°12'12.1	1.56
10288	92.3	277.5	6575.62	3884.16	662.58	-3827.36	581162.6	685469.7	32°53'03.5	104°12'12.1	1.13
10319	92.3	277.6	6574.38	3915.12	666.65	-3858.06	581131.9	685473.8	32°53'03.5	104°12'13.1	0.32
10351	91.5	276.8	6573.32	3947.08	670.66	-3889.79	581100.2	685477.8	32°53'03.5	104°12'13.1	3.53
10383	91	276.6	6572.62	3979.04	674.39	-3921.57	581068.4	685481.5	32°53'03.6	104°12'14.1	1.68
10414	90.7	276.7	6572.16	4010	677.98	-3952.35	581037.6	685485.1	32°53'03.6	104°12'14.1	1.02
10446	90.6	276.8	6571.8	4041.96	681.74	-3984.13	581005.8	685488.9	32°53'03.7	104°12'14.1	0.44
10478	90.3	277	6571.55	4073.93	685.59	-4015.9	580974.1	685492.7	32°53'03.7	104°12'15.1	1.13
10510	90.2	277	6571.41	4105.9	689.49	-4047.66	580942.3	685496.6	32°53'03.7	104°12'15.1	0.31
10541	90	277.2	6571.35	4136.88	693.32	-4078.42	580911.6	685500.5	32°53'03.8	104°12'15.1	0.91
10573	91.1	277	6571.05	4168.85	697.27	-4110.17	580879.8	685504.4	32°53'03.8	104°12'16.1	3.49

10605	91.9	277.4	6570.21	4200.82	701.28	-4141.91	580848.1	685508.4	32°53'03.8	104°12'16.1	2.79
10637	91.9	277.1	6569.15	4232.78	705.32	-4173.64	580816.3	685512.5	32°53'03.9	104°12'17.1	0.94
10668	92	276.4	6568.09	4263.73	708.96	-4204.4	580785.6	685516.1	32°53'03.9	104°12'17.3	2.28
10700	92.2	276.6	6566.92	4295.67	712.58	-4236.18	580753.8	685519.7	32°53'04.0	104°12'17.7	0.88
10732	92.2	276.4	6565.69	4327.6	716.2	-4267.95	580722	685523.3	32°53'04.0	104°12'18.1	0.62
10764	92.5	276.8	6564.38	4359.54	719.87	-4299.71	580690.3	685527	32°53'04.0	104°12'18.3	1.56
10814	92.5	276.8	6562.2	4409.44	725.79	-4349.31	580640.7	685532.9	32°53'04.1	104°12'19.1	0

T A R G E T S

Name	MD	TVD	North	East	Grid East	Grid North	Latitude	Longitude	Shape	Comment
	[ft]	[ft]	[ft]	[ft]	[srv ft]	[srv ft]				
No. 2H PBHL		6564	726.75	-4407.09	580582.9	685533.9	32°53'04.1	104°12'19.1	point	

WELLPATH COMPOSITION Ref Wellbore: No. 2H AWB Ref Wellpath: No. 2H AWP

Log Name/	Start MD	End MD	Pos Unc	Model
	[ft]	[ft]		
GYRO (10605-10814)	0	5930		Gyrodata standard - Drop gyro or Multi-shot
MWD (606-10814)	5930	10764		NaviTrak (Standard)
Projection 1	10764	10814		Blind Drilling (std)



Yates Petroleum Corporation

Location: Eddy County, NM
Field: (Crow) Sec 32, T16S, R28E
Facility: Crow ASM State COM No. 2H

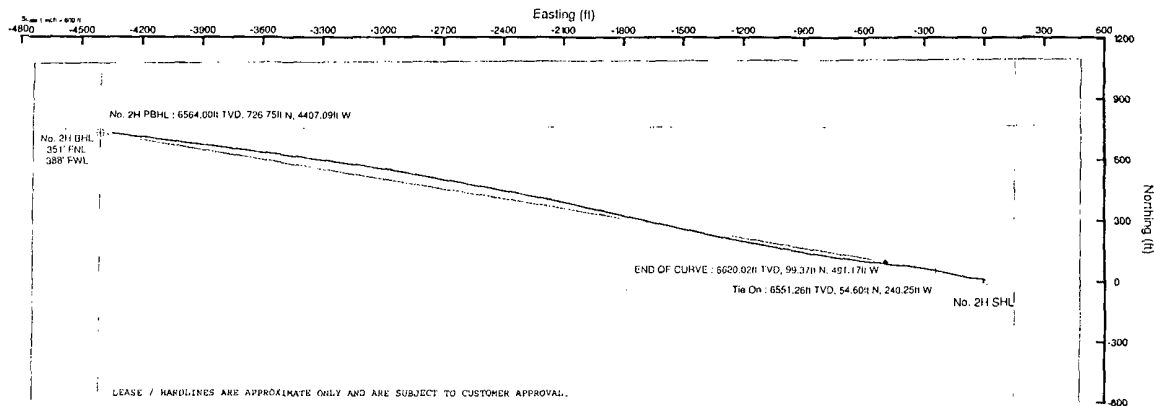
Slot: No. 2H SHL
Well: No. 2H
Wellbore: No. 2H PWB



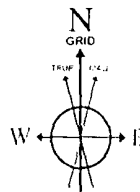
30-015-37061

Well Profile Data

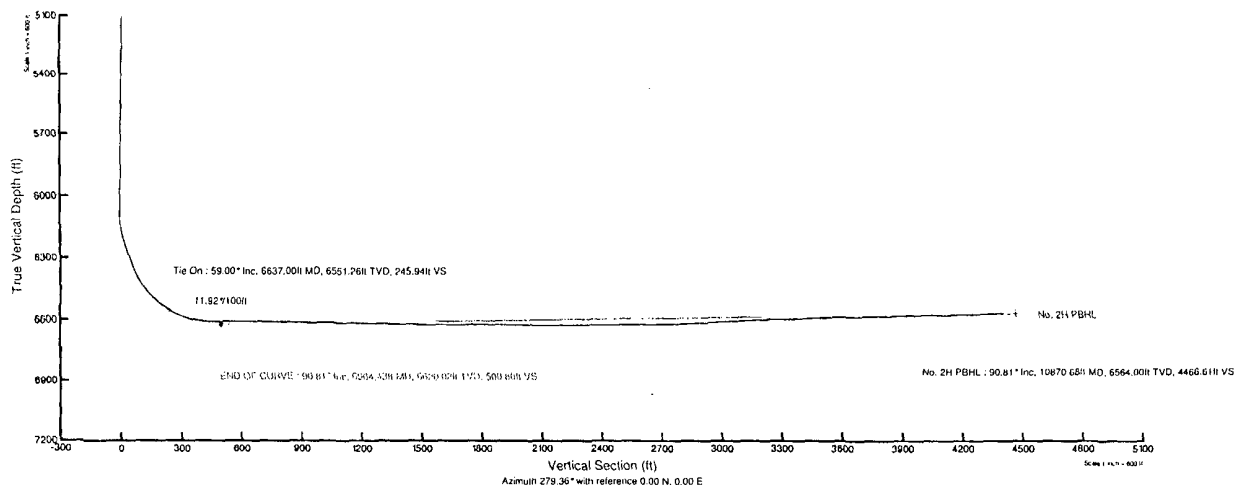
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	6637.00	59.000	281.300	6551.26	54.60	-240.25	0.00	245.94
END OF CURVE	6904.43	90.809	279.102	6620.02	99.37	-491.17	11.92	500.80
No. 2H PBHL	10870.68	90.809	279.102	6564.00	726.75	-4407.09	0.00	4466.61



Plot reference wellpath is Plan #3 vs Actual (FINAL)	Grid System: NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet
True vertical depths are referenced to Rig on No. 2H SHL (KB)	North Reference: Grid north
Measured depths are referenced to Rig on No. 2H SHL (KB)	Scale: True distance
Rig on No. 2H SHL (KB) to Mean Sea Level: 3568.8 feet	Depths are in feet
Mean Sea Level to Mud line (Facility: Crow ASM State COM No. 2H): -3550 feet	Created by: Victor Hernandez on 9/1/2010
Coordinates are in feet referenced to SL	



BGGM (1945.0 to 2011.0) Dip: 60.73° Field: 49089.4 nT
Magnetic North is 8.06 degrees East of True North (at 8/17/2010)
Grid North is 0.08 degrees East of True North
To correct azimuth from True to Grid subtract 0.08 degrees
To correct azimuth from Magnetic to Grid add 7.99 degrees
For example: if the Magnetic North Azimuth = 90 degrees, then the Grid North Azimuth = 90 + 7.99 = 97.99





Actual Wellpath Report

No. 2H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 2H SHL
Area	Eddy County, NM	Well	No. 2H
Field	(Crow) Sec 32, T16S, R28E	Wellbore	No. 2H AWB
Facility	Crow ASM State COM No. 2H		

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.999911	Report Generated	9/1/2010 at 8:08:50 AM
Convergence at slot	0.08° East	Database/Source file	WA_Midland/No. 2H_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	584989.60	684807.20	32°52'56.906"N	104°11'28.090"W
Facility Reference Pt			584989.60	684807.20	32°52'56.906"N	104°11'28.090"W
Field Reference Pt			584989.60	684807.20	32°52'56.906"N	104°11'28.090"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 2H SHL (KB) to GL	18.80ft
Horizontal Reference Pt	SL	Rig on No. 2H SHL (KB) to Mean Sea Level	3568.80ft
Vertical Reference Pt	Rig on No. 2H SHL (KB)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 2H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	279.36°



Actual Wellpath Report

No. 2H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 2H SHL
Area	Eddy County, NM	Well	No. 2H
Field	(Crow) Sec 32, T16S, R28E	Wellbore	No. 2H AWB
Facility	Crow ASM State COM No. 2H		

WELLPATH DATA (181 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]
0.00	0.000	224.420	0.00	0.00	0.00	0.00	584989.60	684807.20	32°52'56.906"N	104°11'28.090"W	0.00
200.00	0.540	224.420	200.00	0.54	-0.67	-0.66	584988.94	684806.53	32°52'56.899"N	104°11'28.097"W	0.27
400.00	0.530	227.540	399.99	1.65	-1.97	-2.00	584987.60	684805.23	32°52'56.886"N	104°11'28.113"W	0.02
600.00	0.390	235.900	599.98	2.72	-2.98	-3.25	584986.35	684804.22	32°52'56.876"N	104°11'28.128"W	0.08
800.00	0.190	283.220	799.98	3.55	-3.28	-4.13	584985.47	684803.92	32°52'56.873"N	104°11'28.138"W	0.15
1000.00	0.290	299.960	999.98	4.35	-2.95	-4.90	584984.70	684804.25	32°52'56.877"N	104°11'28.147"W	0.06
1200.00	0.240	321.250	1199.98	5.14	-2.37	-5.60	584984.00	684804.83	32°52'56.882"N	104°11'28.155"W	0.05
1400.00	0.220	171.170	1399.97	5.33	-2.43	-5.80	584983.80	684804.77	32°52'56.882"N	104°11'28.158"W	0.22
1600.00	0.260	171.930	1599.97	5.07	-3.26	-5.68	584983.92	684803.94	32°52'56.874"N	104°11'28.156"W	0.02
1800.00	0.090	341.600	1799.97	5.01	-3.56	-5.66	584983.94	684803.64	32°52'56.871"N	104°11'28.156"W	0.17
2000.00	0.230	45.970	1999.97	4.84	-3.13	-5.42	584984.18	684804.07	32°52'56.875"N	104°11'28.153"W	0.10
2200.00	0.380	19.510	2199.97	4.49	-2.22	-4.91	584984.69	684804.98	32°52'56.884"N	104°11'28.147"W	0.10
2400.00	0.480	11.430	2399.96	4.34	-0.78	-4.53	584985.07	684806.42	32°52'56.898"N	104°11'28.143"W	0.06
2600.00	0.610	8.030	2599.95	4.33	1.10	-4.21	584985.39	684808.30	32°52'56.917"N	104°11'28.139"W	0.07
2800.00	0.420	4.360	2799.95	4.42	2.88	-4.01	584985.59	684810.08	32°52'56.934"N	104°11'28.136"W	0.10
3000.00	0.430	9.370	2999.94	4.49	4.35	-3.83	584985.77	684811.55	32°52'56.949"N	104°11'28.134"W	0.02
3200.00	0.570	2.430	3199.93	4.61	6.09	-3.66	584985.94	684813.29	32°52'56.966"N	104°11'28.132"W	0.08
3400.00	0.470	349.200	3399.92	5.01	7.89	-3.78	584985.82	684815.09	32°52'56.984"N	104°11'28.134"W	0.08
3600.00	0.600	351.310	3599.92	5.62	9.73	-4.09	584985.51	684816.93	32°52'57.002"N	104°11'28.137"W	0.07
3800.00	0.340	347.070	3799.91	6.17	11.34	-4.38	584985.22	684818.54	32°52'57.018"N	104°11'28.141"W	0.13
4000.00	0.200	350.000	3999.91	6.51	12.26	-4.57	584985.03	684819.46	32°52'57.027"N	104°11'28.143"W	0.07
4200.00	0.220	345.700	4199.91	6.78	12.98	-4.73	584984.87	684820.18	32°52'57.034"N	104°11'28.145"W	0.01
4400.00	0.180	359.600	4399.90	6.98	13.67	-4.82	584984.78	684820.87	32°52'57.041"N	104°11'28.146"W	0.03
4600.00	0.050	13.920	4599.90	7.03	14.07	-4.81	584984.79	684821.26	32°52'57.045"N	104°11'28.146"W	0.07
4800.00	0.090	296.340	4799.90	7.17	14.22	-4.93	584984.67	684821.42	32°52'57.046"N	104°11'28.147"W	0.05
5000.00	0.040	27.490	4999.90	7.30	14.35	-5.03	584984.57	684821.55	32°52'57.048"N	104°11'28.148"W	0.05
5200.00	0.250	94.900	5199.90	6.85	14.38	-4.57	584985.03	684821.58	32°52'57.048"N	104°11'28.143"W	0.12
5400.00	0.570	108.090	5399.90	5.43	14.03	-3.19	584986.41	684821.23	32°52'57.045"N	104°11'28.127"W	0.17
5600.00	0.660	125.720	5599.89	3.41	13.05	-1.31	584988.29	684820.25	32°52'57.035"N	104°11'28.105"W	0.10
5800.00	0.780	112.110	5799.87	1.05	11.86	0.89	584990.49	684819.06	32°52'57.023"N	104°11'28.079"W	0.10



Actual Wellpath Report

No. 2H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 2H SHL
Area	Eddy County, NM	Well	No. 2H
Field	(Crow) Sec 32, T16S, R28E	Wellbore	No. 2H AWB
Facility	Crow ASM State COM No. 2H		

WELLPATH DATA (181 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]
5930.00	1.050	103.740	5929.85	-1.00	11.25	2.87	584992.47	684818.45	32°52'57.017"N	104°11'28.056"W	0.23
6065.00	1.500	89.800	6064.82	-3.97	10.96	5.84	584995.43	684818.16	32°52'57.014"N	104°11'28.021"W	0.40
6097.00	0.500	297.900	6096.82	-4.26	11.03	6.13	584995.73	684818.23	32°52'57.015"N	104°11'28.017"W	6.11
6128.00	4.800	284.000	6127.78	-2.83	11.40	4.75	584994.35	684818.60	32°52'57.018"N	104°11'28.034"W	13.92
6160.00	10.300	282.300	6159.49	1.36	12.34	0.65	584990.25	684819.54	32°52'57.028"N	104°11'28.082"W	17.20
6192.00	15.700	276.700	6190.66	8.55	13.45	-6.45	584983.15	684820.65	32°52'57.039"N	104°11'28.165"W	17.31
6224.00	19.400	273.800	6221.16	18.17	14.31	-16.05	584973.55	684821.51	32°52'57.048"N	104°11'28.278"W	11.88
6256.00	19.700	274.800	6251.32	28.83	15.12	-26.73	584962.87	684822.31	32°52'57.056"N	104°11'28.403"W	1.40
6287.00	19.700	275.900	6280.50	39.26	16.09	-37.13	584952.47	684823.29	32°52'57.065"N	104°11'28.525"W	1.20
6319.00	19.400	275.300	6310.66	49.94	17.13	-47.79	584941.81	684824.33	32°52'57.076"N	104°11'28.650"W	1.13
6351.00	22.100	275.700	6340.58	61.25	18.22	-59.07	584930.53	684825.42	32°52'57.087"N	104°11'28.782"W	8.45
6383.00	25.900	278.300	6369.81	74.25	19.83	-71.99	584917.62	684827.03	32°52'57.103"N	104°11'28.933"W	12.32
6415.00	30.200	281.900	6398.05	89.29	22.50	-86.78	584902.82	684829.70	32°52'57.130"N	104°11'29.107"W	14.44
6447.00	34.000	283.900	6425.15	106.25	26.31	-103.35	584886.26	684833.51	32°52'57.167"N	104°11'29.301"W	12.33
6479.00	39.100	283.000	6450.85	125.26	30.73	-121.88	584867.73	684837.93	32°52'57.211"N	104°11'29.518"W	16.02
6511.00	44.800	282.400	6474.64	146.60	35.43	-142.74	584846.87	684842.63	32°52'57.258"N	104°11'29.763"W	17.86
6542.00	49.000	282.200	6495.81	169.20	40.25	-164.85	584824.76	684847.44	32°52'57.306"N	104°11'30.022"W	13.56
6574.00	52.900	281.800	6515.97	194.02	45.41	-189.16	584800.46	684852.61	32°52'57.358"N	104°11'30.307"W	12.23
6606.00	56.000	281.800	6534.57	220.03	50.73	-214.64	584774.98	684857.93	32°52'57.411"N	104°11'30.606"W	9.69
6637.00	59.000	281.300	6551.23	246.16	55.97	-240.25	584749.37	684863.16	32°52'57.463"N	104°11'30.906"W	9.77
6669.00	63.200	281.000	6566.69	274.15	61.38	-267.73	584721.89	684868.58	32°52'57.517"N	104°11'31.228"W	13.15
6700.00	68.400	279.400	6579.39	302.41	66.38	-295.55	584694.08	684873.57	32°52'57.566"N	104°11'31.554"W	17.42
6730.00	73.400	277.600	6589.21	330.75	70.56	-323.58	584666.05	684877.76	32°52'57.608"N	104°11'31.883"W	17.60
6763.00	79.500	276.100	6596.94	362.78	74.38	-355.42	584634.22	684881.57	32°52'57.646"N	104°11'32.256"W	19.01
6795.00	83.000	276.300	6601.80	394.36	77.80	-386.85	584602.78	684884.99	32°52'57.681"N	104°11'32.625"W	10.95
6826.00	86.100	276.100	6604.75	425.17	81.13	-417.53	584572.11	684888.32	32°52'57.714"N	104°11'32.984"W	10.02
6858.00	89.300	276.000	6606.03	457.08	84.50	-449.32	584540.32	684891.69	32°52'57.748"N	104°11'33.357"W	10.00
6890.00	90.300	276.500	6606.14	489.03	87.98	-481.13	584508.51	684895.17	32°52'57.783"N	104°11'33.730"W	3.49
6921.00	90.300	276.700	6605.98	520.00	91.54	-511.92	584477.72	684898.74	32°52'57.818"N	104°11'34.091"W	0.65
6953.00	90.500	276.400	6605.76	551.96	95.19	-543.71	584445.93	684902.39	32°52'57.855"N	104°11'34.464"W	1.13



Actual Wellpath Report

No. 2H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 2H SHL
Area	Eddy County, NM	Well	No. 2H
Field	(Crow) Sec 32, T16S, R28E	Wellbore	No. 2H AWP
Facility	Crow ASM State COM No. 2H		

WELLPATH DATA (181 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]
6985.00	90.500	276.600	6605.48	583.92	98.82	-575.51	584414.14	684906.01	32°52'57.891"N	104°11'34.836"W	0.62
7017.00	90.000	276.800	6605.34	615.88	102.55	-607.29	584382.37	684909.74	32°52'57.928"N	104°11'35.209"W	1.68
7049.00	90.000	277.000	6605.34	647.85	106.39	-639.06	584350.60	684913.59	32°52'57.967"N	104°11'35.581"W	0.62
7081.00	88.900	277.800	6605.65	679.83	110.52	-670.79	584318.87	684917.71	32°52'58.008"N	104°11'35.953"W	4.25
7112.00	88.600	277.800	6606.32	710.81	114.72	-701.49	584288.17	684921.91	32°52'58.050"N	104°11'36.313"W	0.97
7144.00	88.700	278.000	6607.08	742.79	119.12	-733.18	584256.49	684926.31	32°52'58.094"N	104°11'36.685"W	0.70
7176.00	89.500	278.000	6607.58	774.78	123.57	-764.87	584224.80	684930.76	32°52'58.138"N	104°11'37.056"W	2.50
7208.00	89.600	278.200	6607.83	806.77	128.08	-796.55	584193.13	684935.27	32°52'58.183"N	104°11'37.428"W	0.70
7240.00	89.700	278.700	6608.03	838.77	132.78	-828.20	584161.48	684939.97	32°52'58.230"N	104°11'37.799"W	1.59
7271.00	89.100	279.300	6608.35	869.76	137.63	-858.81	584130.86	684944.82	32°52'58.279"N	104°11'38.158"W	2.74
7303.00	89.100	279.200	6608.85	901.76	142.78	-890.39	584099.29	684949.96	32°52'58.330"N	104°11'38.528"W	0.31
7334.00	89.200	279.600	6609.31	932.76	147.84	-920.97	584068.71	684955.02	32°52'58.381"N	104°11'38.887"W	1.33
7366.00	89.400	279.400	6609.70	964.75	153.12	-952.53	584037.15	684960.30	32°52'58.433"N	104°11'39.256"W	0.88
7398.00	89.500	279.800	6610.01	996.75	158.46	-984.08	584005.61	684965.64	32°52'58.486"N	104°11'39.626"W	1.29
7429.00	89.500	280.100	6610.28	1027.75	163.81	-1014.62	583975.08	684971.00	32°52'58.540"N	104°11'39.984"W	0.97
7461.00	89.700	280.200	6610.50	1059.74	169.45	-1046.11	583943.58	684976.64	32°52'58.596"N	104°11'40.354"W	0.70
7493.00	89.000	280.500	6610.87	1091.74	175.20	-1077.59	583912.11	684982.38	32°52'58.653"N	104°11'40.723"W	2.38
7525.00	89.100	280.600	6611.40	1123.73	181.06	-1109.05	583880.65	684988.24	32°52'58.712"N	104°11'41.091"W	0.44
7556.00	89.400	280.400	6611.80	1154.72	186.71	-1139.52	583850.18	684993.89	32°52'58.768"N	104°11'41.449"W	1.16
7588.00	89.600	280.500	6612.08	1186.71	192.51	-1170.99	583818.71	684999.69	32°52'58.826"N	104°11'41.818"W	0.70
7619.00	89.600	279.900	6612.30	1217.71	198.00	-1201.50	583788.21	685005.18	32°52'58.881"N	104°11'42.175"W	1.94
7651.00	89.100	281.100	6612.66	1249.70	203.83	-1232.96	583756.75	685011.01	32°52'58.939"N	104°11'42.544"W	4.06
7683.00	89.000	280.900	6613.19	1281.68	209.94	-1264.37	583725.34	685017.12	32°52'58.999"N	104°11'42.912"W	0.70
7715.00	88.900	281.200	6613.78	1313.66	216.07	-1295.77	583693.95	685023.25	32°52'59.061"N	104°11'43.280"W	0.99
7747.00	88.900	281.300	6614.39	1345.64	222.31	-1327.15	583662.57	685029.49	32°52'59.123"N	104°11'43.648"W	0.31
7779.00	88.800	281.400	6615.04	1377.61	228.61	-1358.52	583631.20	685035.79	32°52'59.185"N	104°11'44.016"W	0.44
7811.00	88.800	281.800	6615.71	1409.58	235.04	-1389.86	583599.87	685042.22	32°52'59.249"N	104°11'44.383"W	1.25
7842.00	88.900	282.000	6616.33	1440.54	241.43	-1420.19	583569.54	685048.61	32°52'59.313"N	104°11'44.739"W	0.72
7874.00	88.800	282.200	6616.97	1472.50	248.14	-1451.47	583538.26	685055.31	32°52'59.380"N	104°11'45.106"W	0.70
7906.00	89.000	282.200	6617.59	1504.46	254.90	-1482.74	583506.99	685062.07	32°52'59.447"N	104°11'45.472"W	0.62



Actual Wellpath Report

No. 2H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 2H SHL
Area	Eddy County, NM	Well	No. 2H
Field	(Crow) Sec 32, T16S, R28E	Wellbore	No. 2H AWB
Facility	Crow ASM State COM No. 2H		

WELLPATH DATA (181 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]
7938.00	88.900	282.400	6618.17	1536.41	261.71	-1514.00	583475.74	685068.89	32°52'59.515"N	104°11'45.839"W	0.70
7970.00	89.000	282.600	6618.76	1568.36	268.64	-1545.24	583444.50	685075.81	32°52'59.584"N	104°11'46.205"W	0.70
8002.00	89.500	282.400	6619.18	1600.30	275.56	-1576.48	583413.27	685082.74	32°52'59.653"N	104°11'46.571"W	1.68
8034.00	90.000	282.100	6619.32	1632.26	282.35	-1607.75	583382.00	685089.53	32°52'59.720"N	104°11'46.938"W	1.82
8066.00	90.500	282.000	6619.18	1664.23	289.03	-1639.04	583350.71	685096.21	32°52'59.787"N	104°11'47.304"W	1.59
8097.00	90.700	281.900	6618.85	1695.19	295.45	-1669.37	583320.38	685102.63	32°52'59.851"N	104°11'47.660"W	0.72
8129.00	91.100	282.400	6618.35	1727.15	302.19	-1700.65	583289.11	685109.36	32°52'59.918"N	104°11'48.027"W	2.00
8161.00	90.500	282.500	6617.90	1759.10	309.08	-1731.89	583257.87	685116.26	32°52'59.986"N	104°11'48.393"W	1.90
8192.00	89.700	281.900	6617.85	1790.06	315.64	-1762.19	583227.57	685122.81	32°53'00.052"N	104°11'48.748"W	3.23
8224.00	89.500	282.400	6618.07	1822.03	322.37	-1793.47	583196.29	685129.54	32°53'00.119"N	104°11'49.115"W	1.68
8255.00	89.400	282.000	6618.37	1852.99	328.92	-1823.77	583165.99	685136.09	32°53'00.184"N	104°11'49.470"W	1.33
8287.00	89.200	282.200	6618.76	1884.95	335.63	-1855.06	583134.71	685142.80	32°53'00.251"N	104°11'49.837"W	0.88
8319.00	89.400	282.400	6619.15	1916.90	342.45	-1886.32	583103.45	685149.61	32°53'00.319"N	104°11'50.203"W	0.88
8351.00	89.000	282.100	6619.60	1948.86	349.23	-1917.59	583072.18	685156.40	32°53'00.386"N	104°11'50.570"W	1.56
8382.00	88.400	282.100	6620.30	1979.82	355.73	-1947.89	583041.88	685162.90	32°53'00.451"N	104°11'50.925"W	1.94
8414.00	88.500	281.900	6621.17	2011.77	362.38	-1979.18	583010.60	685169.55	32°53'00.517"N	104°11'51.292"W	0.70
8445.00	88.500	282.100	6621.98	2042.73	368.82	-2009.49	582980.29	685175.99	32°53'00.581"N	104°11'51.647"W	0.64
8477.00	89.400	281.600	6622.57	2074.69	375.39	-2040.81	582948.98	685182.56	32°53'00.646"N	104°11'52.014"W	3.22
8509.00	89.600	281.600	6622.84	2106.67	381.83	-2072.15	582917.64	685188.99	32°53'00.711"N	104°11'52.382"W	0.62
8541.00	89.500	281.500	6623.10	2138.64	388.24	-2103.50	582886.29	685195.40	32°53'00.774"N	104°11'52.749"W	0.44
8573.00	89.700	281.200	6623.32	2170.62	394.53	-2134.88	582854.92	685201.70	32°53'00.837"N	104°11'53.117"W	1.13
8605.00	90.300	281.200	6623.32	2202.60	400.75	-2166.27	582823.53	685207.91	32°53'00.899"N	104°11'53.485"W	1.87
8636.00	90.500	280.900	6623.10	2233.59	406.69	-2196.69	582793.11	685213.85	32°53'00.958"N	104°11'53.842"W	1.16
8668.00	90.600	281.000	6622.80	2265.58	412.77	-2228.11	582761.70	685219.93	32°53'01.019"N	104°11'54.210"W	0.44
8700.00	90.700	280.800	6622.43	2297.56	418.82	-2259.53	582730.28	685225.98	32°53'01.079"N	104°11'54.578"W	0.70
8731.00	91.000	280.900	6621.97	2328.55	424.65	-2289.97	582699.84	685231.81	32°53'01.137"N	104°11'54.935"W	1.02
8762.00	91.200	281.000	6621.38	2359.53	430.54	-2320.40	582669.41	685237.70	32°53'01.196"N	104°11'55.292"W	0.72
8794.00	90.600	280.900	6620.87	2391.51	436.62	-2351.81	582638.00	685243.78	32°53'01.256"N	104°11'55.660"W	1.90
8826.00	90.400	280.500	6620.60	2423.50	442.56	-2383.26	582606.56	685249.72	32°53'01.315"N	104°11'56.029"W	1.40
8858.00	90.400	280.500	6620.37	2455.50	448.39	-2414.72	582575.10	685255.55	32°53'01.373"N	104°11'56.398"W	0.00



Actual Wellpath Report

No. 2H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator Yates Petroleum Corporation

Slot

No. 2H SHL

Area Eddy County, NM

Well

No. 2H

Field (Crow) Sec 32, T16S, R28E

Wellbore

No. 2H AWB

Facility Crow ASM State COM No. 2H

WELLPATH DATA (181 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]
8890.00	90.500	280.500	6620.12	2487.49	454.22	-2446.18	582543.64	685261.38	32°53'01.432"N	104°11'56.767"W	0.31
8922.00	90.500	280.300	6619.84	2519.48	460.00	-2477.66	582512.17	685267.16	32°53'01.489"N	104°11'57.136"W	0.62
8953.00	90.600	280.400	6619.54	2550.48	465.57	-2508.15	582481.68	685272.73	32°53'01.545"N	104°11'57.493"W	0.46
8985.00	90.600	280.500	6619.21	2582.47	471.37	-2539.62	582450.21	685278.53	32°53'01.602"N	104°11'57.862"W	0.31
9017.00	90.700	280.600	6618.85	2614.46	477.23	-2571.07	582418.76	685284.39	32°53'01.661"N	104°11'58.231"W	0.44
9049.00	90.700	280.200	6618.46	2646.45	483.01	-2602.55	582387.29	685290.16	32°53'01.718"N	104°11'58.600"W	1.25
9081.00	90.800	280.200	6618.04	2678.45	488.67	-2634.04	582355.80	685295.83	32°53'01.775"N	104°11'58.969"W	0.31
9112.00	91.300	279.900	6617.47	2709.44	494.08	-2664.56	582325.29	685301.24	32°53'01.829"N	104°11'59.327"W	1.88
9144.00	91.400	280.000	6616.71	2741.43	499.61	-2696.07	582293.78	685306.76	32°53'01.884"N	104°11'59.696"W	0.44
9176.00	91.900	279.800	6615.79	2773.41	505.11	-2727.58	582262.27	685312.26	32°53'01.939"N	104°12'00.065"W	1.68
9208.00	92.300	279.900	6614.62	2805.39	510.58	-2759.08	582230.77	685317.73	32°53'01.993"N	104°12'00.435"W	1.29
9239.00	92.400	280.000	6613.35	2836.36	515.93	-2789.59	582200.26	685323.08	32°53'02.046"N	104°12'00.793"W	0.46
9271.00	93.000	280.200	6611.84	2868.33	521.54	-2821.06	582168.80	685328.69	32°53'02.102"N	104°12'01.161"W	1.98
9303.00	93.300	280.400	6610.08	2900.27	527.25	-2852.50	582137.36	685334.40	32°53'02.159"N	104°12'01.530"W	1.13
9335.00	93.100	280.400	6608.30	2932.22	533.02	-2883.92	582105.94	685340.17	32°53'02.217"N	104°12'01.898"W	0.62
9367.00	93.000	279.700	6606.59	2964.17	538.59	-2915.39	582074.48	685345.74	32°53'02.272"N	104°12'02.267"W	2.21
9399.00	93.200	279.100	6604.86	2996.12	543.81	-2946.91	582042.96	685350.96	32°53'02.324"N	104°12'02.637"W	1.97
9430.00	92.600	278.400	6603.30	3027.08	548.52	-2977.51	582012.36	685355.67	32°53'02.371"N	104°12'02.996"W	2.97
9462.00	92.400	278.400	6601.90	3059.05	553.19	-3009.14	581980.74	685360.34	32°53'02.418"N	104°12'03.366"W	0.62
9494.00	92.600	278.500	6600.50	3091.01	557.89	-3040.76	581949.12	685365.04	32°53'02.465"N	104°12'03.737"W	0.70
9526.00	92.800	278.800	6599.00	3122.97	562.70	-3072.36	581917.52	685369.85	32°53'02.513"N	104°12'04.108"W	1.13
9558.00	92.800	278.400	6597.43	3154.93	567.48	-3103.96	581885.92	685374.63	32°53'02.560"N	104°12'04.478"W	1.25
9590.00	92.400	278.400	6595.98	3186.90	572.15	-3135.59	581854.30	685379.29	32°53'02.607"N	104°12'04.849"W	1.25
9622.00	91.600	278.100	6594.86	3218.87	576.74	-3167.24	581822.65	685383.88	32°53'02.653"N	104°12'05.220"W	2.67
9653.00	91.400	278.300	6594.05	3249.85	581.16	-3197.91	581791.98	685388.30	32°53'02.697"N	104°12'05.580"W	0.91
9685.00	91.500	277.700	6593.24	3281.83	585.61	-3229.59	581760.31	685392.75	32°53'02.741"N	104°12'05.951"W	1.90
9716.00	91.500	277.600	6592.43	3312.81	589.73	-3260.30	581729.60	685396.88	32°53'02.782"N	104°12'06.311"W	0.32
9748.00	91.500	277.700	6591.59	3344.78	593.99	-3292.00	581697.89	685401.14	32°53'02.825"N	104°12'06.683"W	0.31
9779.00	91.800	277.600	6590.70	3375.76	598.12	-3322.72	581667.19	685405.26	32°53'02.866"N	104°12'07.043"W	1.02
9811.00	92.200	278.100	6589.58	3407.73	602.48	-3354.40	581635.51	685409.63	32°53'02.910"N	104°12'07.414"W	2.00



Actual Wellpath Report

No. 2H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 2H SHL
Area	Eddy County, NM	Well	No. 2H
Field	(Crow) Sec 32, T16S, R28E	Wellbore	No. 2H AWB
Facility	Crow ASM State COM No. 2H		

WELLPATH DATA (181 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]
9843.00	92.500	278.100	6588.27	3439.69	606.99	-3386.05	581603.86	685414.13	32°53'02.955"N	104°12'07.785"W	0.94
9875.00	92.300	277.600	6586.93	3471.65	611.36	-3417.72	581572.19	685418.50	32°53'02.998"N	104°12'08.157"W	1.68
9907.00	92.000	277.100	6585.73	3503.61	615.45	-3449.44	581540.48	685422.59	32°53'03.039"N	104°12'08.529"W	1.82
9938.00	91.900	276.900	6584.68	3534.56	619.22	-3480.19	581509.73	685426.37	32°53'03.077"N	104°12'08.889"W	0.72
9970.00	92.000	277.000	6583.59	3566.52	623.09	-3511.94	581477.98	685430.24	32°53'03.116"N	104°12'09.261"W	0.44
10001.00	91.900	276.600	6582.53	3597.47	626.76	-3542.70	581447.22	685433.90	32°53'03.152"N	104°12'09.622"W	1.33
10033.00	91.600	276.500	6581.56	3629.42	630.41	-3574.48	581415.45	685437.55	32°53'03.189"N	104°12'09.995"W	0.99
10065.00	90.900	276.600	6580.86	3661.37	634.06	-3606.26	581383.67	685441.20	32°53'03.225"N	104°12'10.367"W	2.21
10097.00	90.800	277.100	6580.38	3693.33	637.88	-3638.03	581351.90	685445.02	32°53'03.263"N	104°12'10.740"W	1.59
10128.00	91.000	277.300	6579.90	3724.31	641.76	-3668.78	581321.15	685448.90	32°53'03.302"N	104°12'11.100"W	0.91
10160.00	91.000	277.800	6579.34	3756.29	645.96	-3700.50	581289.44	685453.11	32°53'03.344"N	104°12'11.472"W	1.56
10192.00	91.400	277.300	6578.67	3788.26	650.17	-3732.21	581257.73	685457.31	32°53'03.386"N	104°12'11.844"W	2.00
10224.00	91.600	277.600	6577.83	3820.24	654.32	-3763.93	581226.01	685461.46	32°53'03.428"N	104°12'12.216"W	1.13
10256.00	92.000	277.300	6576.83	3852.20	658.46	-3795.64	581194.30	685465.60	32°53'03.469"N	104°12'12.588"W	1.56
10288.00	92.300	277.500	6575.62	3884.16	662.58	-3827.36	581162.59	685469.72	32°53'03.510"N	104°12'12.959"W	1.13
10319.00	92.300	277.600	6574.38	3915.12	666.65	-3858.06	581131.89	685473.79	32°53'03.551"N	104°12'13.319"W	0.32
10351.00	91.500	276.800	6573.32	3947.08	670.66	-3889.79	581100.16	685477.80	32°53'03.591"N	104°12'13.691"W	3.53
10383.00	91.000	276.600	6572.62	3979.04	674.39	-3921.57	581068.39	685481.53	32°53'03.628"N	104°12'14.064"W	1.68
10414.00	90.700	276.700	6572.16	4010.00	677.98	-3952.35	581037.60	685485.12	32°53'03.664"N	104°12'14.425"W	1.02
10446.00	90.600	276.800	6571.80	4041.96	681.74	-3984.13	581005.83	685488.88	32°53'03.702"N	104°12'14.797"W	0.44
10478.00	90.300	277.000	6571.55	4073.93	685.59	-4015.90	580974.07	685492.72	32°53'03.740"N	104°12'15.170"W	1.13
10510.00	90.200	277.000	6571.41	4105.90	689.49	-4047.66	580942.31	685496.62	32°53'03.779"N	104°12'15.542"W	0.31
10541.00	90.000	277.200	6571.35	4136.88	693.32	-4078.42	580911.55	685500.45	32°53'03.817"N	104°12'15.903"W	0.91
10573.00	91.100	277.000	6571.05	4168.85	697.27	-4110.17	580879.80	685504.41	32°53'03.857"N	104°12'16.275"W	3.49
10605.00	91.900	277.400	6570.21	4200.82	701.28	-4141.91	580848.07	685508.42	32°53'03.897"N	104°12'16.647"W	2.79
10637.00	91.900	277.100	6569.15	4232.78	705.32	-4173.64	580816.34	685512.45	32°53'03.937"N	104°12'17.019"W	0.94
10668.00	92.000	276.400	6568.09	4263.73	708.96	-4204.40	580785.58	685516.10	32°53'03.974"N	104°12'17.380"W	2.28
10700.00	92.200	276.600	6566.92	4295.67	712.58	-4236.18	580753.81	685519.71	32°53'04.010"N	104°12'17.753"W	0.88
10732.00	92.200	276.400	6565.69	4327.60	716.20	-4267.95	580722.04	685523.33	32°53'04.046"N	104°12'18.125"W	0.62
10764.00	92.500	276.800	6564.38	4359.54	719.87	-4299.71	580690.28	685527.01	32°53'04.083"N	104°12'18.497"W	1.56



Actual Wellpath Report

No. 2H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 2H SHL
Area	Eddy County, NM	Well	No. 2H
Field	(Crow) Sec 32, T16S, R28E	Wellbore	No. 2H AWB
Facility	Crow ASM State COM No. 2H		

WELLPATH DATA (181 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]
10814.00	92.500	276.800	6562.20	4409.44	725.79	-4349.31	580640.69	685532.92	32°53'04.142"N	104°12'19.079"W	0.00

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
No. 2H PBHL		6564.00	726.75	-4407.09	580582.91	685533.88	32°53'04.152"N	104°12'19.757"W	point

WELLPATH COMPOSITION Ref Wellbore: No. 2H AWB Ref Wellpath: No. 2H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5930.00	Gyrodata standard - Drop gyro or Multi-shot	GYRO (100 - 5930)	No. 2H AWB
5930.00	10764.00	NaviTrak (Standard)	MWD (6065 - 10764)	No. 2H AWB
10764.00	10814.00	Blind Drilling (std)	Projection to bit	No. 2H AWB