

30-015-38577



Yates Petroleum Corporation

Location Eddy County, NM
Field (Grande Mike) Sec 2, T16S, R29E
Facility Grande Mike AZK State No 4H

Slot No 4H SHL
Well No 4H
Wellbore No 4H PWR

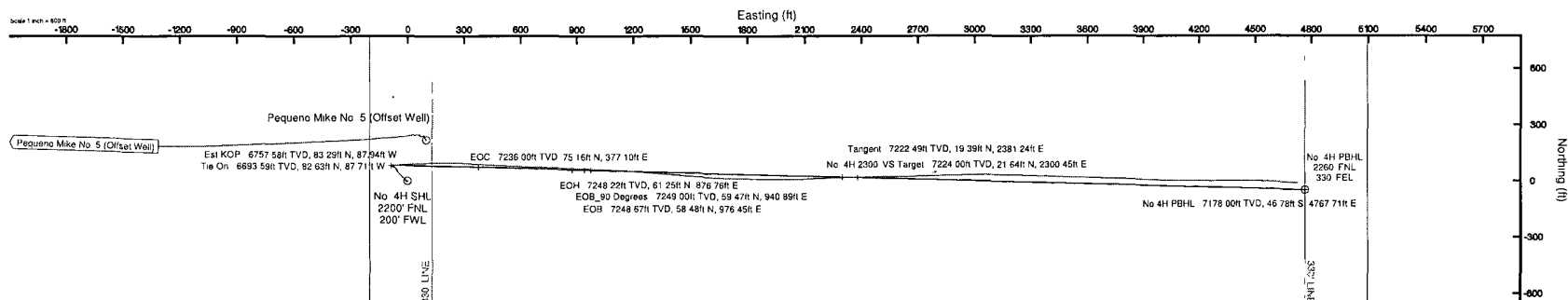


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Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (±100ft)	VS (ft)
Tie On	6695.00	0.630	341.010	6693.59	82.63	-87.71	0.00	-88.52
Est KOP	6759.00	0.630	341.010	6757.58	83.29	-87.94	0.00	-88.75
EOC	7498.05	88.600	91.594	7236.00	75.16	377.10	12.02	376.35
EOH	7998.05	88.600	91.594	7248.22	61.25	876.76	0.00	876.12
EOB_90 Degrees	8062.22	90.000	91.594	7249.00	59.47	940.89	2.18	940.27
EOB	8097.79	91.067	91.594	7248.67	58.48	976.45	3.00	975.82
No 4H 2300' VS Target	9422.53	91.067	91.594	7224.00	21.64	2300.45	0.00	2300.12
Tangent	9503.37	91.068	91.588	7222.49	19.39	2381.24	0.01	2380.94
No 4H PBHL	11891.17	91.068	91.588	7178.00	-46.78	4767.71	0.00	4767.94



Plot reference wellpath is Plan #1

True vertical depths are referenced to Rig on No 4H SHL (KB)

Measured depths are referenced to Rig on No 4H SHL (KB)

Rig on No 4H SHL (KB) to Mean Sea Level 3741 feet

Mean Sea Level to Mud Line (At Slot No 4H SHL) 0 feet

Coordinates are in feet referenced to Slot

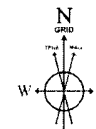
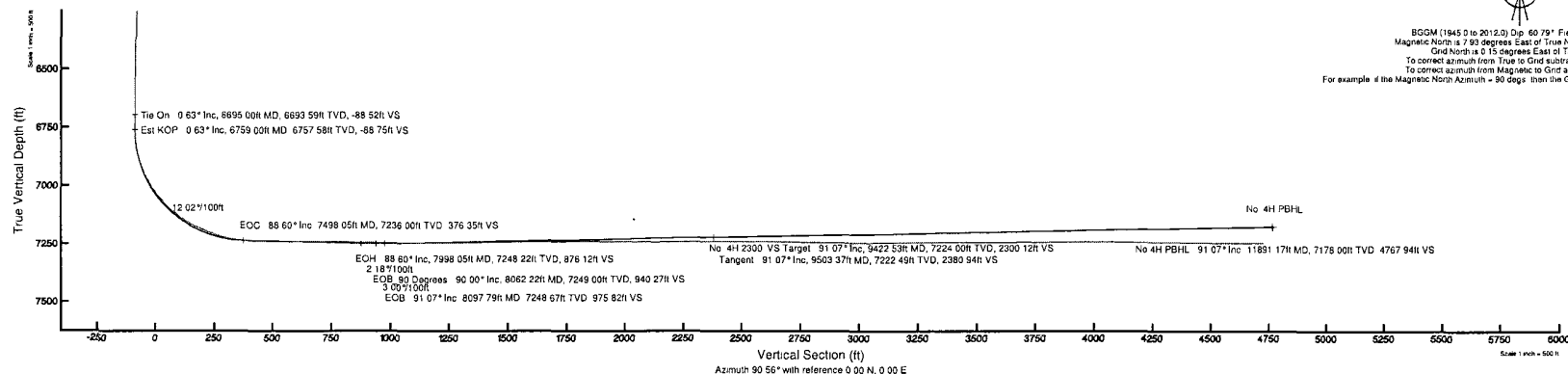
Grid System: NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet

North Reference: Grid north

Scale: True distance

Depths are in feet

Created by: gentlry on 6/7/2011



BGGM (1945.0 to 2012.0) Dip: 60.79° Field: 49041.2 nT
Magnetic North is 7.93 degrees East of True North (at 5/17/2011)
Grid North is 0.15 degrees East of True North
To correct azimuth from True to Grid subtract 0.15 degrees
To correct azimuth from Magnetic to Grid add 7.78 degrees
For example if the Magnetic North Azimuth = 90 degs then the Grid North Azimuth = 90 + 7.78 = 97.78



Actual Wellpath Report

No.4H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 4H SHL
Area	Eddy County, NM	Well	No. 4H
Field	(Grande Mike) Sec 2, T16S, R29E	Wellbore	No.4H AWB
Facility	Grande Mike AZK State No 4H		

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Gentbry
Scale	0.999918	Report Generated	7/11/2011 at 7:27:27 AM
Convergence at slot	0.15° East	Database/Source file	WA Midland/No.4H_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	627185.58	712853.71	32°57'33.587"N	104°03'12.386"W
Facility Reference Pt			627185.58	712853.71	32°57'33.587"N	104°03'12.386"W
Field Reference Pt			627185.58	712853.71	32°57'33.587"N	104°03'12.386"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 4H SHL (KB) to GL	3741.00ft
Horizontal Reference Pt	Slot	Rig on No. 4H SHL (KB) to Mean Sea Level	3741.00ft
Vertical Reference Pt	Rig on No. 4H SHL (KB)	Rig on No. 4H SHL (KB) to Mud Line at Slot (No. 4H SHL)	3741.00ft
MD Reference Pt	Rig on No. 4H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	90.56°



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REFERENCE WELLPATH IDENTIFICATION

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Field	(Grande Mike) Sec 2, T16S, R29E	Wellbore	No.4H AWB
Facility	Grande Mike AZK State No 4H		

WELLPATH DATA (143 stations)

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]	Comments
0.00	0.000	206.790	0.00	0.00	0.00	0.00	627185.58	712853.71	32°57'33.587"N	104°03'12.386"W	0.00	
200.00	0.850	206.790	199.99	-0.66	-1.32	-0.67	627184.91	712852.39	32°57'33.574"N	104°03'12.394"W	0.42	
400.00	0.510	267.670	399.98	-2.20	-2.68	-2.23	627183.35	712851.03	32°57'33.561"N	104°03'12.412"W	0.37	
600.00	0.210	260.360	599.98	-3.45	-2.78	-3.48	627182.10	712850.93	32°57'33.560"N	104°03'12.427"W	0.15	
800.00	0.290	283.870	799.97	-4.30	-2.72	-4.33	627181.25	712850.99	32°57'33.560"N	104°03'12.437"W	0.06	
1000.00	0.400	331.870	999.97	-5.13	-1.99	-5.15	627180.43	712851.72	32°57'33.568"N	104°03'12.446"W	0.15	
1200.00	0.710	308.740	1199.96	-6.44	-0.59	-6.45	627179.13	712853.12	32°57'33.581"N	104°03'12.461"W	0.19	
1400.00	0.780	327.170	1399.95	-8.16	1.33	-8.15	627177.43	712855.04	32°57'33.601"N	104°03'12.481"W	0.12	
1600.00	0.880	324.370	1599.92	-9.82	3.72	-9.78	627175.80	712857.43	32°57'33.624"N	104°03'12.500"W	0.05	
1800.00	1.030	313.790	1799.90	-12.04	6.21	-11.98	627173.61	712859.92	32°57'33.649"N	104°03'12.526"W	0.12	
2000.00	1.270	313.930	1999.86	-14.96	8.99	-14.87	627170.71	712862.70	32°57'33.677"N	104°03'12.560"W	0.12	
2200.00	1.170	320.480	2199.81	-17.88	12.10	-17.77	627167.82	712865.81	32°57'33.707"N	104°03'12.594"W	0.09	
2400.00	1.500	311.190	2399.76	-21.18	15.40	-21.03	627164.55	712869.11	32°57'33.740"N	104°03'12.632"W	0.20	
2600.00	1.510	314.930	2599.69	-25.06	18.99	-24.87	627160.71	712872.70	32°57'33.776"N	104°03'12.677"W	0.05	
2800.00	1.710	321.400	2799.61	-28.82	23.18	-28.60	627156.98	712876.89	32°57'33.817"N	104°03'12.721"W	0.13	
3000.00	1.680	317.850	2999.52	-32.70	27.69	-32.43	627153.16	712881.39	32°57'33.862"N	104°03'12.765"W	0.05	
3200.00	1.940	316.720	3199.42	-37.03	32.33	-36.71	627148.87	712886.03	32°57'33.908"N	104°03'12.816"W	0.13	
3400.00	1.940	309.500	3399.31	-42.01	36.94	-41.65	627143.94	712890.65	32°57'33.954"N	104°03'12.873"W	0.12	
3600.00	1.470	314.740	3599.22	-46.48	40.90	-46.08	627139.50	712894.61	32°57'33.993"N	104°03'12.925"W	0.25	
3800.00	1.390	331.200	3799.16	-49.51	44.83	-49.07	627136.51	712898.54	32°57'34.032"N	104°03'12.960"W	0.21	
4000.00	1.640	330.440	3999.09	-52.14	49.45	-51.65	627133.93	712903.15	32°57'34.078"N	104°03'12.990"W	0.13	
4200.00	1.510	331.780	4199.01	-54.84	54.26	-54.31	627131.27	712907.97	32°57'34.125"N	104°03'13.021"W	0.07	
4400.00	1.320	325.950	4398.95	-57.42	58.49	-56.85	627128.74	712912.20	32°57'34.167"N	104°03'13.051"W	0.12	
4600.00	0.920	325.510	4598.91	-59.65	61.72	-59.05	627126.54	712915.43	32°57'34.199"N	104°03'13.077"W	0.20	
4800.00	1.170	318.700	4798.88	-61.93	64.58	-61.30	627124.28	712918.28	32°57'34.228"N	104°03'13.103"W	0.14	
5000.00	1.240	314.850	4998.83	-64.85	67.64	-64.19	627121.40	712921.34	32°57'34.258"N	104°03'13.137"W	0.05	
5200.00	1.010	311.230	5198.80	-67.73	70.33	-67.05	627118.54	712924.03	32°57'34.285"N	104°03'13.170"W	0.12	
5400.00	0.880	317.110	5398.77	-70.13	72.62	-69.42	627116.17	712926.32	32°57'34.307"N	104°03'13.198"W	0.08	
5600.00	1.000	294.680	5598.74	-72.77	74.47	-72.05	627113.54	712928.17	32°57'34.326"N	104°03'13.229"W	0.19	
5800.00	1.030	310.470	5798.71	-75.75	76.36	-75.00	627110.59	712930.07	32°57'34.345"N	104°03'13.263"W	0.14	
6000.00	0.760	287.300	5998.69	-78.40	77.93	-77.63	627107.95	712931.63	32°57'34.360"N	104°03'13.294"W	0.22	
6200.00	1.010	276.290	6198.66	-81.42	78.51	-80.65	627104.93	712932.22	32°57'34.366"N	104°03'13.330"W	0.15	
6400.00	1.170	296.290	6398.63	-85.01	79.61	-84.24	627101.35	712933.31	32°57'34.377"N	104°03'13.372"W	0.21	
6600.00	0.850	317.610	6598.60	-87.86	81.61	-87.07	627098.52	712935.31	32°57'34.397"N	104°03'13.405"W	0.24	
6695.00	0.630	341.010	6693.59	-88.52	82.63	-87.71	627097.88	712936.33	32°57'34.407"N	104°03'13.412"W	0.39	
6724.00	0.600	1.900	6722.59	-88.57	82.93	-87.76	627097.83	712936.63	32°57'34.410"N	104°03'13.413"W	0.78	
6755.00	1.200	74.300	6753.58	-88.25	83.18	-87.44	627098.15	712936.88	32°57'34.412"N	104°03'13.409"W	3.77	
6787.00	3.500	91.300	6785.56	-86.95	83.25	-86.14	627099.45	712936.95	32°57'34.413"N	104°03'13.394"W	7.43	
6819.00	6.900	89.500	6817.42	-84.05	83.24	-83.24	627102.35	712936.94	32°57'34.413"N	104°03'13.360"W	10.64	
6851.00	11.000	86.900	6849.02	-79.08	83.42	-78.27	627107.32	712937.13	32°57'34.415"N	104°03'13.302"W	12.87	
6883.00	15.200	85.400	6880.18	-71.86	83.92	-71.04	627114.55	712937.63	32°57'34.419"N	104°03'13.217"W	13.17	
6914.00	19.300	84.900	6909.78	-62.71	84.71	-61.88	627123.71	712938.41	32°57'34.427"N	104°03'13.109"W	13.23	
6946.00	23.400	84.800	6939.58	-51.12	85.75	-50.28	627135.31	712939.46	32°57'34.437"N	104°03'12.973"W	12.81	
6977.00	27.600	85.200	6967.55	-37.84	86.91	-36.99	627148.60	712940.61	32°57'34.448"N	104°03'12.817"W	13.56	
7009.00	32.000	85.200	6995.32	-22.01	88.24	-21.14	627164.44	712941.95	32°57'34.461"N	104°03'12.631"W	13.75	



Actual Wellpath Report

No.4H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 4H SHL
Area	Eddy County, NM	Well	No. 4H
Field	(Grande Mike) Sec 2, T16S, R29E	Wellbore	No.4H AWB
Facility	Grande Mike AZK State No 4H		

WELLPATH DATA (143 stations)

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]	Comments
7041.00	36.200	85.000	7021.81	-4.15	89.78	-3.27	627182.31	712943.48	32°57'34.476"N	104°03'12.421"W	13.13	
7073.00	39.300	85.900	7047.11	15.36	91.32	16.26	627201.83	712945.03	32°57'34.490"N	104°03'12.192"W	9.84	
7104.00	42.100	86.800	7070.61	35.52	92.61	36.43	627222.00	712946.31	32°57'34.502"N	104°03'11.955"W	9.23	
7136.00	45.200	87.700	7093.76	57.57	93.66	58.49	627244.06	712947.36	32°57'34.512"N	104°03'11.696"W	9.88	
7167.00	49.200	87.900	7114.82	80.28	94.53	81.21	627266.78	712948.24	32°57'34.520"N	104°03'11.430"W	12.91	
7199.00	53.500	88.100	7134.80	105.24	95.40	106.18	627291.75	712949.11	32°57'34.528"N	104°03'11.137"W	13.45	
7231.00	57.900	88.600	7152.83	131.65	96.16	132.60	627318.17	712949.86	32°57'34.535"N	104°03'10.826"W	13.81	
7263.00	62.200	89.300	7168.80	159.36	96.67	160.31	627345.88	712950.37	32°57'34.539"N	104°03'10.501"W	13.57	
7291.00	65.000	89.100	7181.25	184.43	97.02	185.39	627370.95	712950.72	32°57'34.542"N	104°03'10.207"W	10.02	
7323.00	67.400	90.200	7194.16	213.70	97.19	214.66	627400.23	712950.90	32°57'34.543"N	104°03'09.863"W	8.13	
7354.00	70.100	91.000	7205.39	242.59	96.89	243.55	627429.11	712950.59	32°57'34.539"N	104°03'09.524"W	9.04	
7386.00	72.400	92.100	7215.68	272.88	96.07	273.84	627459.40	712949.77	32°57'34.530"N	104°03'09.169"W	7.89	
7418.00	75.900	93.500	7224.42	303.64	94.56	304.58	627490.14	712948.26	32°57'34.515"N	104°03'08.808"W	11.72	
7450.00	80.200	94.000	7231.04	334.89	92.51	335.81	627521.37	712946.21	32°57'34.494"N	104°03'08.442"W	13.52	
7471.00	82.700	94.200	7234.17	355.61	91.03	356.53	627542.08	712944.73	32°57'34.478"N	104°03'08.199"W	11.94	
7503.00	86.800	93.600	7237.09	387.42	88.86	388.31	627573.86	712942.56	32°57'34.456"N	104°03'07.826"W	12.95	
7535.00	88.300	93.300	7238.46	419.35	86.94	420.22	627605.77	712940.64	32°57'34.436"N	104°03'07.451"W	4.78	
7566.00	88.800	93.100	7239.25	450.31	85.21	451.16	627636.71	712938.91	32°57'34.418"N	104°03'07.088"W	1.74	
7598.00	89.100	92.900	7239.83	482.27	83.53	483.11	627668.65	712937.24	32°57'34.401"N	104°03'06.713"W	1.13	
7630.00	89.600	92.800	7240.19	514.24	81.94	515.07	627700.61	712935.65	32°57'34.384"N	104°03'06.338"W	1.59	
7662.00	89.700	92.700	7240.39	546.22	80.41	547.04	627732.57	712934.11	32°57'34.368"N	104°03'05.963"W	0.44	
7694.00	89.700	92.300	7240.56	578.20	79.01	579.00	627764.54	712932.71	32°57'34.354"N	104°03'05.588"W	1.25	
7725.00	89.800	92.300	7240.69	609.19	77.77	609.98	627795.51	712931.47	32°57'34.341"N	104°03'05.224"W	0.32	
7757.00	89.800	92.200	7240.80	641.17	76.51	641.95	627827.48	712930.21	32°57'34.327"N	104°03'04.849"W	0.31	
7789.00	89.900	92.100	7240.89	673.16	75.31	673.93	627859.45	712929.01	32°57'34.315"N	104°03'04.474"W	0.44	
7820.00	90.000	92.100	7240.92	704.15	74.17	704.91	627890.43	712927.88	32°57'34.302"N	104°03'04.110"W	0.32	
7852.00	89.500	92.000	7241.06	736.14	73.03	736.89	627922.41	712926.73	32°57'34.290"N	104°03'03.735"W	1.59	
7884.00	89.200	91.500	7241.42	768.13	72.05	768.87	627954.39	712925.76	32°57'34.280"N	104°03'03.360"W	1.82	
7916.00	89.300	91.700	7241.84	800.12	71.16	800.86	627986.37	712924.86	32°57'34.270"N	104°03'02.984"W	0.70	
7943.00	88.500	92.100	7242.36	827.11	70.26	827.84	628013.35	712923.97	32°57'34.261"N	104°03'02.668"W	3.31	
7975.00	88.600	92.200	7243.17	859.09	69.06	859.80	628045.31	712922.77	32°57'34.248"N	104°03'02.293"W	0.44	
8007.00	88.700	92.300	7243.92	891.06	67.81	891.77	628077.28	712921.51	32°57'34.235"N	104°03'01.918"W	0.44	
8039.00	88.900	92.500	7244.59	923.04	66.47	923.74	628109.24	712920.17	32°57'34.220"N	104°03'01.543"W	0.88	
8070.00	89.100	92.500	7245.13	954.02	65.12	954.70	628140.20	712918.82	32°57'34.206"N	104°03'01.179"W	0.65	
8102.00	89.100	92.600	7245.63	985.99	63.69	986.67	628172.16	712917.40	32°57'34.191"N	104°03'00.804"W	0.31	
8134.00	89.200	92.800	7246.11	1017.97	62.19	1018.63	628204.12	712915.89	32°57'34.176"N	104°03'00.429"W	0.70	
8165.00	89.400	92.900	7246.49	1048.94	60.64	1049.59	628235.08	712914.35	32°57'34.159"N	104°03'00.066"W	0.72	
8197.00	89.600	93.200	7246.77	1080.91	58.94	1081.54	628267.03	712912.65	32°57'34.142"N	104°02'59.691"W	1.13	
8229.00	90.000	93.400	7246.88	1112.87	57.10	1113.49	628298.97	712910.80	32°57'34.123"N	104°02'59.316"W	1.40	
8292.00	90.300	93.700	7246.71	1175.79	53.20	1176.37	628361.85	712906.90	32°57'34.082"N	104°02'58.578"W	0.67	
8361.00	90.200	95.000	7246.41	1244.63	47.97	1245.16	628430.64	712901.67	32°57'34.029"N	104°02'57.771"W	1.89	
8424.00	91.000	94.700	7245.75	1307.45	42.64	1307.93	628493.40	712896.35	32°57'33.974"N	104°02'57.034"W	1.36	
8488.00	90.500	94.800	7244.91	1371.28	37.34	1371.71	628557.17	712891.05	32°57'33.920"N	104°02'56.286"W	0.80	
8552.00	90.500	95.200	7244.36	1435.08	31.76	1435.46	628620.92	712885.47	32°57'33.863"N	104°02'55.538"W	0.62	
8615.00	91.300	94.400	7243.37	1497.90	26.49	1498.23	628683.69	712880.20	32°57'33.810"N	104°02'54.801"W	1.80	



Actual Wellpath Report

No.4H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 4H SHL
Area	Eddy County, NM	Well	No. 4H
Field	(Grande Mike) Sec 2, T16S, R29E	Wellbore	No.4H AWB
Facility	Grande Mike AZK State No 4H		

WELLPATH DATA (143 stations)

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]	Comments
8678.00	90.600	93.800	7242.32	1560.77	21.99	1561.06	628746.51	712875.70	32°57'33.763"N	104°02'54.064"W	1.46	
8742.00	90.200	93.000	7241.87	1624.69	18.19	1624.95	628810.39	712871.90	32°57'33.724"N	104°02'53.315"W	1.40	
8805.00	90.500	92.500	7241.49	1687.64	15.17	1687.87	628873.31	712868.88	32°57'33.692"N	104°02'52.576"W	0.93	
8869.00	91.100	91.400	7240.60	1751.62	12.99	1751.83	628937.26	712866.70	32°57'33.669"N	104°02'51.826"W	1.96	
8933.00	90.100	91.100	7239.93	1815.61	11.60	1815.81	629001.24	712865.30	32°57'33.654"N	104°02'51.075"W	1.63	
8997.00	89.000	91.200	7240.43	1879.60	10.31	1879.79	629065.22	712864.02	32°57'33.639"N	104°02'50.324"W	1.73	
9060.00	89.300	90.000	7241.36	1942.59	9.65	1942.78	629128.20	712863.36	32°57'33.631"N	104°02'49.585"W	1.96	
9124.00	89.500	89.900	7242.03	2006.59	9.71	2006.78	629192.19	712863.42	32°57'33.630"N	104°02'48.834"W	0.35	
9187.00	89.400	88.900	7242.64	2069.57	10.37	2069.77	629255.18	712864.08	32°57'33.635"N	104°02'48.094"W	1.60	
9219.00	89.400	87.700	7242.97	2101.54	11.32	2101.76	629287.16	712865.03	32°57'33.643"N	104°02'47.719"W	3.75	
9283.00	90.600	87.600	7242.97	2165.46	13.94	2165.70	629351.10	712867.65	32°57'33.667"N	104°02'46.968"W	1.88	
9346.00	90.500	87.800	7242.37	2228.38	16.47	2228.65	629414.04	712870.18	32°57'33.691"N	104°02'46.230"W	0.35	
9410.00	89.800	88.400	7242.20	2292.32	18.59	2292.61	629478.00	712872.30	32°57'33.710"N	104°02'45.479"W	1.44	
9473.00	90.200	88.400	7242.20	2355.27	20.35	2355.59	629540.97	712874.06	32°57'33.726"N	104°02'44.740"W	0.63	
9537.00	90.300	88.900	7241.92	2419.24	21.86	2419.57	629604.94	712875.57	32°57'33.739"N	104°02'43.989"W	0.80	
9601.00	89.900	89.500	7241.81	2483.22	22.75	2483.56	629668.93	712876.46	32°57'33.746"N	104°02'43.238"W	1.13	
9664.00	90.300	89.300	7241.70	2546.20	23.41	2546.56	629731.92	712877.12	32°57'33.751"N	104°02'42.498"W	0.71	
9728.00	89.900	89.200	7241.59	2610.19	24.25	2610.55	629795.91	712877.96	32°57'33.757"N	104°02'41.747"W	0.64	
9792.00	89.500	88.500	7241.92	2674.16	25.53	2674.54	629859.89	712879.24	32°57'33.768"N	104°02'40.996"W	1.26	
9855.00	88.800	88.000	7242.86	2737.10	27.46	2737.50	629922.85	712881.16	32°57'33.786"N	104°02'40.257"W	1.37	
9919.00	88.900	88.100	7244.14	2801.02	29.63	2801.45	629986.79	712883.34	32°57'33.806"N	104°02'39.507"W	0.22	
9983.00	89.800	88.800	7244.87	2864.98	31.37	2865.42	630050.76	712885.07	32°57'33.821"N	104°02'38.756"W	1.78	
10047.00	89.000	88.900	7245.54	2928.94	32.65	2929.40	630114.74	712886.36	32°57'33.832"N	104°02'38.005"W	1.26	
10110.00	88.800	89.300	7246.75	2991.91	33.64	2992.38	630177.71	712887.35	32°57'33.840"N	104°02'37.266"W	0.71	
10142.00	89.500	89.100	7247.22	3023.90	34.09	3024.38	630209.70	712887.79	32°57'33.844"N	104°02'36.890"W	2.28	
10174.00	90.300	89.700	7247.28	3055.89	34.42	3056.38	630241.70	712888.13	32°57'33.846"N	104°02'36.515"W	3.12	
10205.00	90.900	90.600	7246.95	3086.89	34.34	3087.37	630272.69	712888.05	32°57'33.844"N	104°02'36.151"W	3.49	
10238.00	91.300	91.000	7246.32	3119.88	33.88	3120.36	630305.68	712887.59	32°57'33.839"N	104°02'35.764"W	1.71	
10301.00	90.600	91.300	7245.28	3182.87	32.61	3183.34	630368.65	712886.32	32°57'33.825"N	104°02'35.025"W	1.21	
10365.00	89.900	91.900	7245.00	3246.86	30.83	3247.32	630432.62	712884.54	32°57'33.805"N	104°02'34.274"W	1.44	
10428.00	90.300	91.800	7244.89	3309.84	28.79	3310.28	630495.58	712882.50	32°57'33.783"N	104°02'33.535"W	0.65	
10492.00	91.000	92.100	7244.16	3373.82	26.62	3374.24	630559.54	712880.32	32°57'33.760"N	104°02'32.784"W	1.19	
10555.00	89.900	92.200	7243.67	3436.79	24.25	3437.19	630622.48	712877.96	32°57'33.735"N	104°02'32.046"W	1.75	
10619.00	89.800	91.400	7243.83	3500.77	22.24	3501.16	630686.45	712875.95	32°57'33.713"N	104°02'31.295"W	1.26	
10682.00	90.100	91.500	7243.89	3563.77	20.65	3564.14	630749.42	712874.36	32°57'33.696"N	104°02'30.556"W	0.50	
10746.00	90.700	92.400	7243.44	3627.75	18.47	3628.10	630813.38	712872.18	32°57'33.673"N	104°02'29.805"W	1.69	
10810.00	90.100	92.300	7242.99	3691.71	15.85	3692.05	630877.31	712869.56	32°57'33.645"N	104°02'29.055"W	0.95	
10873.00	89.500	91.900	7243.21	3754.69	13.54	3755.00	630940.27	712867.25	32°57'33.620"N	104°02'28.316"W	1.14	
10937.00	91.000	91.800	7242.94	3818.67	11.47	3818.97	631004.22	712865.18	32°57'33.598"N	104°02'27.566"W	2.35	
11000.00	90.100	91.900	7242.33	3881.65	9.44	3881.93	631067.18	712863.15	32°57'33.576"N	104°02'26.827"W	1.44	
11064.00	89.900	92.700	7242.33	3945.62	6.87	3945.88	631131.13	712860.58	32°57'33.549"N	104°02'26.076"W	1.29	
11128.00	90.100	91.800	7242.33	4009.59	4.36	4009.83	631195.07	712858.07	32°57'33.522"N	104°02'25.326"W	1.44	
11191.00	89.200	91.200	7242.72	4072.58	2.71	4072.80	631258.04	712856.42	32°57'33.504"N	104°02'24.587"W	1.72	
11255.00	88.600	90.100	7243.94	4136.57	1.98	4136.79	631322.02	712855.69	32°57'33.495"N	104°02'23.836"W	1.96	
11318.00	89.400	90.100	7245.04	4199.56	1.87	4199.78	631385.00	712855.58	32°57'33.493"N	104°02'23.097"W	1.27	



Actual Wellpath Report

No.4H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 4H SHL
Area	Eddy County, NM	Well	No. 4H
Field	(Grande Mike) Sec 2, T16S, R29E	Wellbore	No.4H AWB
Facility	Grande Mike AZK State No 4H		

WELLPATH DATA (143 stations)

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]	Comments
11382.00	90.100	90.200	7245.32	4263.55	1.70	4263.78	631449.00	712855.41	32°57'33.489"N	104°02'22.346"W	1.10	
11446.00	89.900	89.100	7245.32	4327.55	2.10	4327.77	631512.99	712855.81	32°57'33.491"N	104°02'21.595"W	1.75	
11509.00	89.100	90.000	7245.87	4390.53	2.59	4390.77	631575.98	712856.30	32°57'33.494"N	104°02'20.855"W	1.91	
11573.00	89.200	90.900	7246.82	4454.52	2.09	4454.76	631639.96	712855.80	32°57'33.488"N	104°02'20.104"W	1.41	
11636.00	89.100	91.900	7247.76	4517.51	0.55	4517.73	631702.93	712854.26	32°57'33.471"N	104°02'19.365"W	1.60	
11700.00	89.500	92.500	7248.54	4581.48	-1.91	4581.68	631766.87	712851.80	32°57'33.445"N	104°02'18.615"W	1.13	
11764.00	90.200	92.900	7248.71	4645.43	-4.92	4645.61	631830.80	712848.79	32°57'33.413"N	104°02'17.865"W	1.26	
11845.00	90.200	92.900	7248.42	4726.36	-9.02	4726.50	631911.68	712844.69	32°57'33.370"N	104°02'16.915"W	0.00	Proj To Bit

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No. 4H PBHL		7178.00	-46.78	4767.71	631952.89	712806.93	32°57'32.995"N	104°02'16.433"W	point
No. 4H_ 2300 VS Target		7224.00	-22.56	2299.89	629485.28	712831.15	32°57'33.303"N	104°02'45.395"W	point

WELLPATH COMPOSITION - Ref Wellbore: No.4H AWB Ref Wellpath: No.4H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	6695.00	Generic gyro - northseeking (Standard)	Gyro	No.4H AWB
6695.00	11845.00	NaviTrak (Standard)	MWD	No.4H AWB