

Actual Wellpath Report

No. 3H AWP

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30-015-38269

INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(CF) Sec 27, T16S, R28E	Wellbore	No. 3H AWB
Facility	Crow Flats 28 Fed No. 3H		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Gomeoscr
Scale	0.999912	Report Generated	1/4/2011 at 8:10:36 AM
Convergence at slot	0.09° East	Database/Source file	WA Midland/No. 3H_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	549951.11	688039.06	32°53'29.017"N	104°10'14.175"W
Facility Reference Pt			549951.11	688039.06	32°53'29.017"N	104°10'14.175"W
Field Reference Pt			550387.25	689669.00	32°53'45.139"N	104°10'09.030"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 3H SHL (KB) to Facility Vertical Datum	20.50ft
Horizontal Reference Pt	Slot	Rig on No. 3H SHL (KB) to Mean Sea Level	3611.50ft
Vertical Reference Pt	Rig on No. 3H SHL (KB)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 3H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	271.28°

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WELLPATH DATA (239 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]	Comments
0.00	0.000	311.290	0.00	0.00	0.00	0.00	549951.11	688039.06	32°53'29.017"N	104°10'14.175"W	0.00	
100.00	0.210	311.290	100.00	0.14	0.12	-0.14	549950.97	688039.18	32°53'29.018"N	104°10'14.176"W	0.21	
200.00	0.130	77.290	200.00	0.17	0.27	-0.16	549950.94	688039.33	32°53'29.020"N	104°10'14.177"W	0.31	
300.00	0.290	348.740	300.00	0.12	0.54	-0.10	549951.00	688039.60	32°53'29.023"N	104°10'14.176"W	0.31	
400.00	0.210	174.990	400.00	0.15	0.61	-0.14	549950.97	688039.67	32°53'29.023"N	104°10'14.176"W	0.50	
500.00	0.180	157.870	500.00	0.07	0.28	-0.06	549951.05	688039.34	32°53'29.020"N	104°10'14.176"W	0.07	
600.00	0.190	149.050	600.00	-0.08	-0.01	0.08	549951.19	688039.05	32°53'29.017"N	104°10'14.174"W	0.03	
700.00	0.180	141.930	700.00	-0.27	-0.28	0.26	549951.37	688038.79	32°53'29.014"N	104°10'14.172"W	0.03	
800.00	0.110	119.830	800.00	-0.45	-0.45	0.44	549951.55	688038.62	32°53'29.013"N	104°10'14.170"W	0.09	
900.00	0.140	122.230	900.00	-0.64	-0.56	0.63	549951.74	688038.50	32°53'29.012"N	104°10'14.167"W	0.03	
1000.00	0.160	84.850	1000.00	-0.89	-0.61	0.87	549951.98	688038.45	32°53'29.011"N	104°10'14.165"W	0.10	
1100.00	0.130	68.880	1100.00	-1.13	-0.56	1.12	549952.23	688038.50	32°53'29.012"N	104°10'14.162"W	0.05	
1200.00	0.150	46.180	1200.00	-1.33	-0.43	1.32	549952.43	688038.64	32°53'29.013"N	104°10'14.159"W	0.06	
1300.00	0.210	12.930	1300.00	-1.46	-0.16	1.45	549952.56	688038.91	32°53'29.016"N	104°10'14.158"W	0.12	
1400.00	0.230	340.230	1399.99	-1.42	0.21	1.43	549952.54	688039.27	32°53'29.019"N	104°10'14.158"W	0.13	
1500.00	0.330	342.680	1499.99	-1.26	0.67	1.27	549952.38	688039.74	32°53'29.024"N	104°10'14.160"W	0.10	
1600.00	0.340	354.110	1599.99	-1.13	1.24	1.16	549952.27	688040.31	32°53'29.029"N	104°10'14.161"W	0.07	
1700.00	0.410	331.220	1699.99	-0.91	1.85	0.96	549952.06	688040.92	32°53'29.035"N	104°10'14.164"W	0.16	
1800.00	0.520	341.490	1799.99	-0.58	2.60	0.64	549951.75	688041.66	32°53'29.043"N	104°10'14.167"W	0.14	
1900.00	0.490	339.660	1899.98	-0.27	3.43	0.35	549951.45	688042.49	32°53'29.051"N	104°10'14.171"W	0.03	
2000.00	0.680	319.970	1999.98	0.28	4.28	-0.18	549950.92	688043.35	32°53'29.060"N	104°10'14.177"W	0.27	
2100.00	0.860	302.590	2099.97	1.31	5.14	-1.20	549949.91	688044.20	32°53'29.068"N	104°10'14.189"W	0.29	
2200.00	0.760	304.480	2199.96	2.51	5.92	-2.38	549948.73	688044.98	32°53'29.076"N	104°10'14.203"W	0.10	
2300.00	0.570	288.330	2299.95	3.54	6.45	-3.40	549947.71	688045.52	32°53'29.081"N	104°10'14.215"W	0.27	
2400.00	0.480	306.060	2399.95	4.36	6.85	-4.21	549946.90	688045.92	32°53'29.085"N	104°10'14.224"W	0.18	
2500.00	0.280	333.760	2499.95	4.82	7.32	-4.65	549946.46	688046.38	32°53'29.090"N	104°10'14.229"W	0.27	
2600.00	0.240	319.140	2599.94	5.07	7.70	-4.90	549946.21	688046.76	32°53'29.093"N	104°10'14.232"W	0.08	
2700.00	0.220	307.700	2699.94	5.36	7.97	-5.19	549945.92	688047.04	32°53'29.096"N	104°10'14.236"W	0.05	
2800.00	0.140	4.140	2799.94	5.51	8.21	-5.33	549945.78	688047.28	32°53'29.099"N	104°10'14.237"W	0.18	
2900.00	0.070	85.090	2899.94	5.45	8.34	-5.26	549945.85	688047.40	32°53'29.100"N	104°10'14.236"W	0.15	
3000.00	0.120	151.750	2999.94	5.33	8.25	-5.15	549945.96	688047.32	32°53'29.099"N	104°10'14.235"W	0.11	
3100.00	0.190	154.150	3099.94	5.21	8.01	-5.03	549946.08	688047.08	32°53'29.097"N	104°10'14.234"W	0.07	
3200.00	0.270	162.850	3199.94	5.06	7.64	-4.89	549946.22	688046.70	32°53'29.093"N	104°10'14.232"W	0.09	
3300.00	0.360	138.720	3299.94	4.77	7.18	-4.61	549946.50	688046.24	32°53'29.088"N	104°10'14.229"W	0.16	
3400.00	0.600	149.200	3399.94	4.28	6.49	-4.13	549946.97	688045.55	32°53'29.081"N	104°10'14.223"W	0.25	
3500.00	0.580	163.330	3499.93	3.84	5.56	-3.72	549947.39	688044.62	32°53'29.072"N	104°10'14.218"W	0.15	
3600.00	0.370	169.640	3599.93	3.62	4.75	-3.52	549947.59	688043.82	32°53'29.064"N	104°10'14.216"W	0.22	
3700.00	0.300	173.150	3699.93	3.52	4.18	-3.43	549947.68	688043.24	32°53'29.059"N	104°10'14.215"W	0.07	
3800.00	0.280	155.110	3799.92	3.38	3.69	-3.29	549947.81	688042.76	32°53'29.054"N	104°10'14.213"W	0.09	
3900.00	0.230	152.690	3899.92	3.17	3.29	-3.10	549948.01	688042.36	32°53'29.050"N	104°10'14.211"W	0.05	
4000.00	0.200	207.390	3999.92	3.15	2.96	-3.09	549948.02	688042.02	32°53'29.047"N	104°10'14.211"W	0.20	
4100.00	0.130	241.910	4099.92	3.33	2.75	-3.27	549947.84	688041.82	32°53'29.044"N	104°10'14.213"W	0.12	
4200.00	0.140	244.600	4199.92	3.54	2.65	-3.48	549947.63	688041.71	32°53'29.043"N	104°10'14.216"W	0.01	
4300.00	0.210	264.000	4299.92	3.83	2.58	-3.77	549947.34	688041.64	32°53'29.043"N	104°10'14.219"W	0.09	
4400.00	0.140	254.360	4399.92	4.13	2.52	-4.07	549947.04	688041.59	32°53'29.042"N	104°10'14.223"W	0.08	

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Facility	Crow Flats 28 Fed No. 3H		

WELLPATH DATA (239 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]	Comments
4500.00	0.270	252.950	4499.92	4.47	2.42	-4.41	549946.69	688041.48	32°53'29.041"N	104°10'14.227"W	0.13	
4600.00	0.140	231.570	4599.92	4.78	2.28	-4.74	549946.37	688041.34	32°53'29.040"N	104°10'14.230"W	0.15	
4700.00	0.320	228.400	4699.92	5.08	2.01	-5.04	549946.07	688041.08	32°53'29.037"N	104°10'14.234"W	0.18	
4800.00	0.350	247.020	4799.92	5.57	1.71	-5.53	549945.58	688040.77	32°53'29.034"N	104°10'14.240"W	0.11	
4900.00	0.430	246.620	4899.92	6.19	1.44	-6.16	549944.95	688040.51	32°53'29.032"N	104°10'14.247"W	0.08	
5000.00	0.440	231.100	4999.91	6.82	1.05	-6.80	549944.31	688040.12	32°53'29.028"N	104°10'14.255"W	0.12	
5100.00	0.490	230.710	5099.91	7.44	0.54	-7.43	549943.68	688039.60	32°53'29.023"N	104°10'14.262"W	0.05	
5200.00	0.360	237.410	5199.91	8.02	0.10	-8.02	549943.08	688039.16	32°53'29.018"N	104°10'14.269"W	0.14	
5300.00	0.140	221.990	5299.91	8.36	-0.16	-8.37	549942.74	688038.90	32°53'29.016"N	104°10'14.273"W	0.23	
5400.00	0.650	119.680	5399.90	7.95	-0.53	-7.96	549943.15	688038.53	32°53'29.012"N	104°10'14.268"W	0.69	
5500.00	0.810	111.430	5499.90	6.78	-1.07	-6.81	549944.30	688037.99	32°53'29.007"N	104°10'14.255"W	0.19	
5600.00	1.110	115.140	5599.88	5.23	-1.74	-5.27	549945.83	688037.32	32°53'29.000"N	104°10'14.237"W	0.31	
5700.00	1.210	105.230	5699.86	3.32	-2.43	-3.38	549947.73	688036.63	32°53'28.993"N	104°10'14.215"W	0.22	
5800.00	1.550	100.810	5799.83	0.96	-2.96	-1.03	549950.08	688036.10	32°53'28.988"N	104°10'14.187"W	0.36	
5884.00	1.500	101.500	5883.80	-1.24	-3.39	1.16	549952.27	688035.67	32°53'28.984"N	104°10'14.161"W	0.06	
5900.00	1.700	98.200	5899.80	-1.68	-3.47	1.60	549952.71	688035.60	32°53'28.983"N	104°10'14.156"W	1.38	
5931.00	1.900	93.900	5930.78	-2.65	-3.57	2.57	549953.68	688035.50	32°53'28.982"N	104°10'14.145"W	0.78	
5962.00	1.800	94.700	5961.76	-3.65	-3.64	3.57	549954.68	688035.42	32°53'28.981"N	104°10'14.133"W	0.33	
5994.00	0.500	102.100	5993.76	-4.29	-3.71	4.21	549955.31	688035.35	32°53'28.980"N	104°10'14.126"W	4.08	
6026.00	1.900	274.400	6025.75	-3.90	-3.70	3.81	549954.92	688035.36	32°53'28.980"N	104°10'14.130"W	7.49	
6058.00	4.400	275.900	6057.70	-2.14	-3.54	2.06	549953.17	688035.53	32°53'28.982"N	104°10'14.151"W	7.82	
6089.00	6.900	273.400	6088.55	0.90	-3.30	-0.98	549950.13	688035.76	32°53'28.984"N	104°10'14.186"W	8.10	
6121.00	9.700	272.100	6120.21	5.52	-3.09	-5.59	549945.52	688035.97	32°53'28.987"N	104°10'14.241"W	8.77	
6152.00	12.300	270.700	6150.64	11.44	-2.95	-11.51	549939.60	688036.11	32°53'28.988"N	104°10'14.310"W	8.43	
6184.00	15.200	271.500	6181.72	19.04	-2.80	-19.11	549932.00	688036.26	32°53'28.990"N	104°10'14.399"W	9.08	
6216.00	18.900	271.200	6212.31	28.42	-2.58	-28.49	549922.62	688036.48	32°53'28.992"N	104°10'14.509"W	11.57	
6247.00	23.300	270.500	6241.22	39.58	-2.43	-39.64	549911.47	688036.64	32°53'28.994"N	104°10'14.640"W	14.22	
6279.00	28.000	270.000	6270.06	53.42	-2.37	-53.49	549897.62	688036.69	32°53'28.995"N	104°10'14.802"W	14.70	
6311.00	32.500	268.400	6297.69	69.53	-2.61	-69.60	549881.51	688036.45	32°53'28.992"N	104°10'14.991"W	14.29	
6342.00	36.500	268.400	6323.24	87.06	-3.10	-87.15	549863.96	688035.96	32°53'28.988"N	104°10'15.197"W	12.90	
6374.00	40.000	268.100	6348.36	106.84	-3.71	-106.95	549844.17	688035.36	32°53'28.982"N	104°10'15.429"W	10.95	
6406.00	43.100	268.900	6372.31	128.04	-4.26	-128.17	549822.95	688034.81	32°53'28.977"N	104°10'15.678"W	9.83	
6438.00	45.700	269.600	6395.17	150.41	-4.55	-150.55	549800.57	688034.52	32°53'28.974"N	104°10'15.940"W	8.27	
6469.00	48.600	269.100	6416.25	173.12	-4.81	-173.27	549777.85	688034.26	32°53'28.972"N	104°10'16.207"W	9.43	
6501.00	51.500	269.800	6436.80	197.64	-5.04	-197.80	549753.32	688034.02	32°53'28.970"N	104°10'16.495"W	9.22	
6533.00	55.200	270.000	6455.89	223.30	-5.08	-223.47	549727.66	688033.98	32°53'28.970"N	104°10'16.796"W	11.57	
6564.00	59.500	270.400	6472.62	249.39	-4.99	-249.57	549701.56	688034.07	32°53'28.972"N	104°10'17.102"W	13.91	
6596.00	64.000	272.200	6487.76	277.57	-4.34	-277.74	549673.40	688034.72	32°53'28.978"N	104°10'17.432"W	14.91	
6628.00	68.000	273.000	6500.77	306.79	-3.01	-306.93	549644.20	688036.05	32°53'28.992"N	104°10'17.774"W	12.71	
6660.00	71.500	272.400	6511.85	336.80	-1.60	-336.92	549614.22	688037.46	32°53'29.006"N	104°10'18.126"W	11.08	
6692.00	74.100	272.200	6521.31	367.36	-0.38	-367.46	549583.68	688038.69	32°53'29.019"N	104°10'18.484"W	8.15	
6723.00	76.600	272.500	6529.15	397.34	0.86	-397.42	549553.72	688039.92	32°53'29.032"N	104°10'18.835"W	8.12	
6755.00	77.400	272.000	6536.35	428.52	2.08	-428.58	549522.57	688041.14	32°53'29.044"N	104°10'19.201"W	2.93	
6786.00	78.700	271.500	6542.76	458.85	3.00	-458.89	549492.26	688042.07	32°53'29.054"N	104°10'19.556"W	4.48	
6818.00	80.900	271.600	6548.43	490.34	3.86	-490.37	549460.78	688042.92	32°53'29.063"N	104°10'19.925"W	6.88	

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Field	(CF) Sec 27, T16S, R28E	Wellbore	No. 3H AWB
Facility	Crow Flats 28 Fed No. 3H		

WELLPATH DATA (239 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]	Comments
6850.00	82.700	271.300	6553.00	522.01	4.66	-522.04	549429.12	688043.72	32°53'29.071"N	104°10'20.297"W	5.70	
6881.00	83.400	270.900	6556.75	552.78	5.25	-552.80	549398.36	688044.31	32°53'29.077"N	104°10'20.657"W	2.60	
6913.00	83.900	270.900	6560.29	584.58	5.75	-584.60	549366.56	688044.81	32°53'29.083"N	104°10'21.030"W	1.56	
6945.00	85.200	270.900	6563.32	616.44	6.25	-616.45	549334.71	688045.31	32°53'29.088"N	104°10'21.404"W	4.06	
6973.00	86.700	271.200	6565.30	644.37	6.76	-644.38	549306.79	688045.82	32°53'29.094"N	104°10'21.731"W	5.46	
7057.00	89.800	271.400	6567.87	728.32	8.67	-728.31	549222.87	688047.73	32°53'29.114"N	104°10'22.715"W	3.70	
7089.00	89.500	271.200	6568.06	760.32	9.39	-760.30	549190.88	688048.45	32°53'29.122"N	104°10'23.091"W	1.13	
7120.00	89.200	271.100	6568.41	791.31	10.01	-791.29	549159.89	688049.08	32°53'29.128"N	104°10'23.454"W	1.02	
7151.00	90.100	270.200	6568.60	822.31	10.36	-822.29	549128.90	688049.43	32°53'29.132"N	104°10'23.818"W	4.11	
7183.00	90.000	270.000	6568.58	854.30	10.42	-854.29	549096.90	688049.48	32°53'29.133"N	104°10'24.193"W	0.70	
7215.00	89.700	270.000	6568.66	886.30	10.42	-886.29	549064.90	688049.48	32°53'29.134"N	104°10'24.568"W	0.94	
7246.00	90.500	269.900	6568.61	917.29	10.39	-917.29	549033.91	688049.46	32°53'29.134"N	104°10'24.932"W	2.60	
7278.00	90.300	270.000	6568.38	949.28	10.37	-949.28	549001.91	688049.43	32°53'29.134"N	104°10'25.307"W	0.70	
7310.00	90.200	270.000	6568.24	981.27	10.37	-981.28	548969.91	688049.43	32°53'29.135"N	104°10'25.682"W	0.31	
7341.00	90.000	269.800	6568.19	1012.26	10.31	-1012.28	548938.92	688049.37	32°53'29.134"N	104°10'26.046"W	0.91	
7373.00	90.700	269.900	6567.99	1044.25	10.23	-1044.28	548906.92	688049.29	32°53'29.134"N	104°10'26.421"W	2.21	
7405.00	90.600	270.000	6567.63	1076.24	10.20	-1076.28	548874.92	688049.26	32°53'29.134"N	104°10'26.796"W	0.44	
7437.00	90.700	270.200	6567.27	1108.23	10.26	-1108.28	548842.93	688049.32	32°53'29.135"N	104°10'27.171"W	0.70	
7469.00	90.500	270.500	6566.93	1140.22	10.45	-1140.28	548810.93	688049.51	32°53'29.138"N	104°10'27.547"W	1.13	
7501.00	90.000	270.400	6566.79	1172.22	10.70	-1172.27	548778.94	688049.77	32°53'29.141"N	104°10'27.922"W	1.59	
7533.00	89.800	270.300	6566.85	1204.22	10.90	-1204.27	548746.94	688049.96	32°53'29.143"N	104°10'28.297"W	0.70	
7564.00	90.700	270.500	6566.71	1235.21	11.11	-1235.27	548715.95	688050.18	32°53'29.146"N	104°10'28.661"W	2.97	
7596.00	90.700	270.700	6566.32	1267.21	11.45	-1267.27	548683.95	688050.51	32°53'29.150"N	104°10'29.036"W	0.62	
7628.00	90.400	270.600	6566.01	1299.20	11.81	-1299.27	548651.96	688050.88	32°53'29.154"N	104°10'29.411"W	0.99	
7660.00	90.200	270.500	6565.85	1331.20	12.12	-1331.26	548619.96	688051.18	32°53'29.157"N	104°10'29.786"W	0.70	
7691.00	90.100	270.600	6565.77	1362.20	12.42	-1362.26	548588.97	688051.48	32°53'29.161"N	104°10'30.150"W	0.46	
7723.00	89.700	270.200	6565.82	1394.19	12.64	-1394.26	548556.97	688051.70	32°53'29.163"N	104°10'30.525"W	1.77	
7754.00	89.300	270.100	6566.09	1425.19	12.72	-1425.26	548525.98	688051.78	32°53'29.164"N	104°10'30.889"W	1.33	
7786.00	89.100	270.400	6566.54	1457.18	12.86	-1457.26	548493.98	688051.92	32°53'29.166"N	104°10'31.264"W	1.13	
7818.00	90.000	271.500	6566.79	1489.18	13.39	-1489.25	548461.99	688052.45	32°53'29.172"N	104°10'31.639"W	4.44	
7850.00	90.200	272.000	6566.73	1521.17	14.37	-1521.23	548430.01	688053.43	32°53'29.182"N	104°10'32.014"W	1.68	
7882.00	90.700	272.200	6566.48	1553.17	15.54	-1553.21	548398.04	688054.60	32°53'29.194"N	104°10'32.389"W	1.68	
7914.00	90.700	272.400	6566.09	1585.16	16.83	-1585.18	548366.07	688055.89	32°53'29.207"N	104°10'32.764"W	0.62	
7946.00	90.500	272.600	6565.76	1617.15	18.22	-1617.15	548334.10	688057.28	32°53'29.222"N	104°10'33.139"W	0.88	
7977.00	90.500	272.400	6565.49	1648.15	19.57	-1648.12	548303.14	688058.64	32°53'29.236"N	104°10'33.502"W	0.65	
8009.00	90.500	272.100	6565.21	1680.14	20.83	-1680.09	548271.16	688059.89	32°53'29.248"N	104°10'33.877"W	0.94	
8041.00	90.300	272.200	6564.98	1712.14	22.03	-1712.07	548239.19	688061.09	32°53'29.261"N	104°10'34.252"W	0.70	
8073.00	90.100	272.300	6564.87	1744.13	23.29	-1744.05	548207.22	688062.35	32°53'29.274"N	104°10'34.627"W	0.70	
8104.00	89.900	272.300	6564.87	1775.13	24.53	-1775.02	548176.25	688063.59	32°53'29.286"N	104°10'34.990"W	0.65	
8136.00	89.600	272.200	6565.01	1807.12	25.79	-1807.00	548144.27	688064.85	32°53'29.299"N	104°10'35.365"W	0.99	
8168.00	90.400	272.200	6565.01	1839.12	27.02	-1838.97	548112.30	688066.08	32°53'29.312"N	104°10'35.740"W	2.50	
8200.00	90.200	271.800	6564.84	1871.11	28.13	-1870.95	548080.32	688067.19	32°53'29.324"N	104°10'36.115"W	1.40	
8231.00	90.300	272.400	6564.71	1902.11	29.27	-1901.93	548049.35	688068.33	32°53'29.335"N	104°10'36.478"W	1.96	
8263.00	90.000	272.800	6564.63	1934.10	30.72	-1933.90	548017.38	688069.78	32°53'29.350"N	104°10'36.853"W	1.56	
8295.00	89.700	273.000	6564.71	1966.09	32.34	-1965.86	547985.43	688071.40	32°53'29.367"N	104°10'37.228"W	1.13	

Actual Wellpath Report

No. 3H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(CF) Sec 27, T16S, R28E	Wellbore	No. 3H AWB
Facility	Crow Flats 28 Fed No. 3H		

WELLPATH DATA (239 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]	Comments
8327.00	89.700	273.200	6564.88	1998.07	34.07	-1997.81	547953.48	688073.13	32°53'29.384"N	104°10'37.602"W	0.62	
8359.00	90.400	273.700	6564.85	2030.05	36.00	-2029.75	547921.54	688075.06	32°53'29.404"N	104°10'37.977"W	2.69	
8390.00	90.400	274.400	6564.63	2061.01	38.18	-2060.67	547890.62	688077.24	32°53'29.426"N	104°10'38.339"W	2.26	
8421.00	90.200	274.500	6564.47	2091.96	40.59	-2091.58	547859.72	688079.65	32°53'29.450"N	104°10'38.702"W	0.72	
8453.00	90.200	274.900	6564.36	2123.91	43.21	-2123.47	547827.83	688082.27	32°53'29.476"N	104°10'39.076"W	1.25	
8485.00	90.100	274.600	6564.27	2155.85	45.86	-2155.36	547795.94	688084.92	32°53'29.503"N	104°10'39.450"W	0.99	
8516.00	89.900	274.500	6564.27	2186.80	48.32	-2186.26	547765.04	688087.38	32°53'29.528"N	104°10'39.812"W	0.72	
8548.00	89.500	274.200	6564.44	2218.75	50.75	-2218.17	547733.14	688089.81	32°53'29.552"N	104°10'40.186"W	1.56	
8580.00	89.300	274.000	6564.78	2250.71	53.04	-2250.09	547701.22	688092.09	32°53'29.575"N	104°10'40.560"W	0.88	
8612.00	89.700	273.700	6565.06	2282.68	55.18	-2282.01	547669.30	688094.24	32°53'29.597"N	104°10'40.935"W	1.56	
8644.00	89.800	273.600	6565.20	2314.65	57.22	-2313.95	547637.37	688096.28	32°53'29.618"N	104°10'41.309"W	0.44	
8675.00	90.700	272.700	6565.06	2345.63	58.92	-2344.90	547606.42	688097.98	32°53'29.635"N	104°10'41.672"W	4.11	
8707.00	90.700	272.500	6564.67	2377.62	60.38	-2376.87	547574.46	688099.43	32°53'29.650"N	104°10'42.047"W	0.62	
8739.00	90.400	272.300	6564.36	2409.61	61.72	-2408.84	547542.49	688100.77	32°53'29.664"N	104°10'42.422"W	1.13	
8771.00	89.900	272.200	6564.28	2441.61	62.97	-2440.81	547510.52	688102.03	32°53'29.677"N	104°10'42.797"W	1.59	
8802.00	89.300	271.900	6564.50	2472.61	64.08	-2471.79	547479.54	688103.14	32°53'29.688"N	104°10'43.160"W	2.16	
8834.00	89.800	271.000	6564.75	2504.60	64.89	-2503.78	547447.55	688103.95	32°53'29.696"N	104°10'43.535"W	3.22	
8866.00	89.500	270.500	6564.94	2536.60	65.31	-2535.78	547415.56	688104.37	32°53'29.701"N	104°10'43.910"W	1.82	
8897.00	90.800	270.000	6564.86	2567.60	65.45	-2566.77	547384.57	688104.50	32°53'29.703"N	104°10'44.274"W	4.49	
8929.00	90.600	269.800	6564.47	2599.58	65.39	-2598.77	547352.57	688104.45	32°53'29.703"N	104°10'44.649"W	0.88	
8961.00	90.200	269.700	6564.25	2631.57	65.25	-2630.77	547320.57	688104.31	32°53'29.702"N	104°10'45.024"W	1.29	
8993.00	89.800	269.700	6564.25	2663.56	65.08	-2662.77	547288.58	688104.14	32°53'29.701"N	104°10'45.400"W	1.25	
9025.00	89.600	269.100	6564.41	2695.54	64.75	-2694.77	547256.58	688103.81	32°53'29.698"N	104°10'45.775"W	1.98	
9057.00	88.800	268.200	6564.86	2727.50	63.99	-2726.75	547224.60	688103.05	32°53'29.691"N	104°10'46.150"W	3.76	
9089.00	88.600	268.200	6565.59	2759.45	62.99	-2758.73	547192.63	688102.05	32°53'29.681"N	104°10'46.525"W	0.62	
9120.00	89.900	268.200	6565.99	2790.40	62.01	-2789.71	547161.65	688101.07	32°53'29.672"N	104°10'46.888"W	4.19	
9152.00	92.100	269.000	6565.43	2822.36	61.23	-2821.70	547129.67	688100.29	32°53'29.665"N	104°10'47.264"W	7.32	
9184.00	92.600	269.200	6564.12	2854.31	60.73	-2853.66	547097.70	688099.79	32°53'29.660"N	104°10'47.638"W	1.68	
9216.00	92.300	269.200	6562.75	2886.26	60.28	-2885.63	547065.74	688099.34	32°53'29.656"N	104°10'48.013"W	0.94	
9247.00	92.100	269.300	6561.56	2917.22	59.88	-2916.61	547034.76	688098.94	32°53'29.653"N	104°10'48.377"W	0.72	
9278.00	91.900	269.300	6560.48	2948.18	59.50	-2947.59	547003.79	688098.56	32°53'29.650"N	104°10'48.740"W	0.65	
9310.00	91.700	269.100	6559.48	2980.14	59.05	-2979.57	546971.81	688098.11	32°53'29.646"N	104°10'49.115"W	0.88	
9342.00	91.500	269.400	6558.58	3012.11	58.64	-3011.55	546939.83	688097.69	32°53'29.642"N	104°10'49.490"W	1.13	
9374.00	91.300	269.500	6557.80	3044.08	58.33	-3043.54	546907.84	688097.39	32°53'29.639"N	104°10'49.865"W	0.70	
9405.00	91.300	269.700	6557.10	3075.06	58.11	-3074.53	546876.85	688097.17	32°53'29.638"N	104°10'50.229"W	0.64	
9437.00	91.500	269.700	6556.32	3107.04	57.94	-3106.52	546844.87	688097.00	32°53'29.636"N	104°10'50.604"W	0.62	
9469.00	90.700	269.400	6555.70	3139.02	57.69	-3138.51	546812.88	688096.75	32°53'29.634"N	104°10'50.979"W	2.67	
9501.00	90.300	269.500	6555.42	3171.00	57.39	-3170.51	546780.88	688096.44	32°53'29.632"N	104°10'51.354"W	1.29	
9533.00	89.800	269.600	6555.40	3202.99	57.13	-3202.51	546748.89	688096.19	32°53'29.630"N	104°10'51.729"W	1.59	
9564.00	89.300	269.700	6555.64	3233.97	56.95	-3233.51	546717.89	688096.00	32°53'29.628"N	104°10'52.093"W	1.64	
9596.00	88.800	269.900	6556.17	3265.96	56.83	-3265.50	546685.90	688095.89	32°53'29.628"N	104°10'52.468"W	1.68	
9628.00	89.600	270.400	6556.62	3297.95	56.92	-3297.50	546653.90	688095.98	32°53'29.629"N	104°10'52.843"W	2.95	
9660.00	89.700	270.500	6556.81	3329.94	57.17	-3329.50	546621.91	688096.23	32°53'29.632"N	104°10'53.219"W	0.44	
9692.00	89.400	270.700	6557.06	3361.94	57.50	-3361.50	546589.91	688096.56	32°53'29.636"N	104°10'53.594"W	1.13	
9723.00	89.000	271.000	6557.50	3392.94	57.96	-3392.49	546558.92	688097.02	32°53'29.641"N	104°10'53.957"W	1.61	

Actual Wellpath Report

No. 3H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(CF) Sec 27, T16S, R28E	Wellbore	No. 3H AWP
Facility	Crow Flats 28 Fed No. 3H		

WELLPATH DATA (239 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]	Comments
9755.00	88.600	270.900	6558.17	3424.93	58.49	-3424.48	546526.94	688097.55	32°53'29.646"N	104°10'54.332"W	1.29	
9787.00	88.700	271.000	6558.92	3456.92	59.02	-3456.46	546494.95	688098.08	32°53'29.652"N	104°10'54.707"W	0.44	
9819.00	88.500	271.000	6559.70	3488.91	59.58	-3488.45	546462.97	688098.64	32°53'29.658"N	104°10'55.083"W	0.62	
9850.00	89.200	271.000	6560.32	3519.90	60.12	-3519.44	546431.99	688099.18	32°53'29.664"N	104°10'55.446"W	2.26	
9882.00	89.000	271.300	6560.83	3551.90	60.77	-3551.43	546400.00	688099.82	32°53'29.671"N	104°10'55.821"W	1.13	
9914.00	89.400	271.400	6561.27	3583.90	61.52	-3583.42	546368.01	688100.58	32°53'29.679"N	104°10'56.196"W	1.29	
9945.00	89.300	271.500	6561.62	3614.89	62.30	-3614.40	546337.03	688101.36	32°53'29.687"N	104°10'56.560"W	0.46	
9977.00	89.700	271.600	6561.90	3646.89	63.17	-3646.39	546305.04	688102.23	32°53'29.696"N	104°10'56.935"W	1.29	
10009.00	90.800	271.400	6561.76	3678.89	64.01	-3678.38	546273.06	688103.07	32°53'29.705"N	104°10'57.310"W	3.49	
10041.00	90.600	271.300	6561.37	3710.89	64.76	-3710.37	546241.07	688103.82	32°53'29.712"N	104°10'57.685"W	0.70	
10072.00	90.300	271.400	6561.13	3741.89	65.49	-3741.36	546210.09	688104.55	32°53'29.720"N	104°10'58.048"W	1.02	
10104.00	90.200	271.700	6560.99	3773.89	66.36	-3773.35	546178.10	688105.41	32°53'29.729"N	104°10'58.423"W	0.99	
10136.00	90.100	271.300	6560.91	3805.89	67.19	-3805.34	546146.11	688106.25	32°53'29.738"N	104°10'58.798"W	1.29	
10167.00	89.300	270.500	6561.07	3836.88	67.68	-3836.33	546115.12	688106.74	32°53'29.743"N	104°10'59.162"W	3.65	
10199.00	90.000	270.300	6561.26	3868.88	67.90	-3868.33	546083.13	688106.96	32°53'29.746"N	104°10'59.537"W	2.28	
10231.00	90.000	270.200	6561.26	3900.87	68.04	-3900.33	546051.13	688107.10	32°53'29.748"N	104°10'59.912"W	0.31	
10263.00	90.400	271.000	6561.15	3932.87	68.38	-3932.33	546019.14	688107.44	32°53'29.751"N	104°11'00.288"W	2.80	
10295.00	90.500	271.200	6560.90	3964.87	68.99	-3964.32	545987.14	688108.05	32°53'29.758"N	104°11'00.663"W	0.70	
10328.00	90.400	271.000	6560.64	3997.87	69.63	-3997.31	545954.16	688108.69	32°53'29.765"N	104°11'01.050"W	0.68	
10359.00	90.500	271.300	6560.40	4028.87	70.25	-4028.31	545923.17	688109.31	32°53'29.771"N	104°11'01.413"W	1.02	
10391.00	90.400	271.700	6560.15	4060.87	71.09	-4060.29	545891.18	688110.14	32°53'29.780"N	104°11'01.788"W	1.29	
10422.00	90.200	271.500	6559.99	4091.87	71.95	-4091.28	545860.20	688111.01	32°53'29.789"N	104°11'02.152"W	0.91	
10454.00	90.000	271.500	6559.93	4123.87	72.79	-4123.27	545828.21	688111.85	32°53'29.798"N	104°11'02.527"W	0.62	
10486.00	89.600	271.700	6560.04	4155.87	73.68	-4155.26	545796.22	688112.74	32°53'29.807"N	104°11'02.902"W	1.40	
10518.00	90.900	271.400	6559.90	4187.86	74.55	-4187.24	545764.24	688113.61	32°53'29.816"N	104°11'03.277"W	4.17	
10550.00	90.900	271.400	6559.40	4219.86	75.33	-4219.23	545732.26	688114.39	32°53'29.824"N	104°11'03.652"W	0.00	
10582.00	90.400	271.200	6559.04	4251.86	76.06	-4251.22	545700.27	688115.11	32°53'29.832"N	104°11'04.027"W	1.68	
10614.00	90.700	271.700	6558.73	4283.86	76.87	-4283.21	545668.28	688115.92	32°53'29.840"N	104°11'04.402"W	1.82	
10646.00	90.600	272.300	6558.37	4315.85	77.98	-4315.19	545636.31	688117.04	32°53'29.852"N	104°11'04.777"W	1.90	
10677.00	90.700	272.200	6558.01	4346.84	79.20	-4346.16	545605.34	688118.26	32°53'29.864"N	104°11'05.140"W	0.46	
10709.00	90.600	272.200	6557.65	4378.84	80.43	-4378.14	545573.37	688119.49	32°53'29.877"N	104°11'05.515"W	0.31	
10741.00	90.600	271.800	6557.32	4410.83	81.55	-4410.11	545541.39	688120.60	32°53'29.888"N	104°11'05.890"W	1.25	
10773.00	90.500	272.300	6557.01	4442.83	82.69	-4442.09	545509.42	688121.75	32°53'29.900"N	104°11'06.265"W	1.59	
10805.00	90.900	272.900	6556.62	4474.82	84.14	-4474.06	545477.45	688123.20	32°53'29.915"N	104°11'06.640"W	2.25	
10837.00	90.100	273.200	6556.34	4506.80	85.84	-4506.01	545445.50	688124.90	32°53'29.932"N	104°11'07.015"W	2.67	
10869.00	89.000	273.800	6556.59	4538.78	87.80	-4537.95	545413.57	688126.85	32°53'29.952"N	104°11'07.389"W	3.92	
10900.00	88.600	273.900	6557.24	4569.74	89.88	-4568.87	545382.65	688128.93	32°53'29.973"N	104°11'07.752"W	1.33	
10932.00	88.500	273.700	6558.05	4601.70	92.00	-4600.79	545350.73	688131.05	32°53'29.994"N	104°11'08.126"W	0.70	
10964.00	88.300	273.800	6558.94	4633.66	94.09	-4632.71	545318.82	688133.15	32°53'30.016"N	104°11'08.501"W	0.70	
10996.00	88.000	273.500	6559.98	4665.61	96.13	-4664.63	545286.90	688135.18	32°53'30.036"N	104°11'08.875"W	1.33	
11028.00	89.100	273.600	6560.78	4697.58	98.11	-4696.56	545254.97	688137.16	32°53'30.056"N	104°11'09.249"W	3.45	
11060.00	89.200	273.500	6561.26	4729.55	100.09	-4728.49	545223.04	688139.14	32°53'30.076"N	104°11'09.624"W	0.44	
11091.00	89.100	273.400	6561.72	4760.52	101.95	-4759.43	545192.10	688141.01	32°53'30.095"N	104°11'09.987"W	0.46	
11123.00	89.000	273.500	6562.25	4792.49	103.88	-4791.37	545160.17	688142.93	32°53'30.115"N	104°11'10.361"W	0.44	
11154.00	88.800	273.500	6562.85	4823.47	105.77	-4822.31	545129.24	688144.83	32°53'30.134"N	104°11'10.724"W	0.65	

Actual Wellpath Report

No. 3H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(CF) Sec 27, T16S, R28E	Wellbore	No. 3H AWB
Facility	Crow Flats 28 Fed No. 3H		

WELLPATH DATA (239 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]	Comments
11186.00	88.800	273.900	6563.52	4855.43	107.84	-4854.23	545097.31	688146.89	32°53'30.155"N	104°11'11.098"W	1.25	
11218.00	88.700	273.700	6564.21	4887.39	109.96	-4886.15	545065.39	688149.01	32°53'30.176"N	104°11'11.472"W	0.70	
11250.00	88.500	273.900	6565.00	4919.35	112.08	-4918.07	545033.48	688151.13	32°53'30.197"N	104°11'11.847"W	0.88	
11282.00	88.900	273.600	6565.72	4951.31	114.17	-4950.00	545001.56	688153.22	32°53'30.219"N	104°11'12.221"W	1.56	
11314.00	88.800	273.500	6566.36	4983.28	116.15	-4981.93	544969.63	688155.20	32°53'30.239"N	104°11'12.595"W	0.44	
11345.00	89.400	273.300	6566.85	5014.26	117.99	-5012.87	544938.69	688157.04	32°53'30.257"N	104°11'12.958"W	2.04	
11377.00	89.300	273.000	6567.21	5046.24	119.75	-5044.82	544906.74	688158.80	32°53'30.275"N	104°11'13.333"W	0.99	
11408.00	89.400	272.700	6567.57	5077.22	121.29	-5075.78	544875.78	688160.34	32°53'30.291"N	104°11'13.696"W	1.02	
11440.00	90.700	272.200	6567.54	5109.22	122.66	-5107.75	544843.82	688161.71	32°53'30.305"N	104°11'14.071"W	4.35	
11472.00	91.000	271.800	6567.06	5141.21	123.77	-5139.73	544811.84	688162.83	32°53'30.316"N	104°11'14.446"W	1.56	
11504.00	90.700	271.400	6566.59	5173.21	124.67	-5171.71	544779.86	688163.72	32°53'30.325"N	104°11'14.821"W	1.56	
11536.00	90.800	271.800	6566.17	5205.20	125.56	-5203.70	544747.88	688164.61	32°53'30.335"N	104°11'15.196"W	1.29	
11567.00	91.100	271.400	6565.65	5236.20	126.42	-5234.68	544716.90	688165.48	32°53'30.344"N	104°11'15.559"W	1.61	
11620.00	91.000	271.400	6564.68	5289.19	127.72	-5287.65	544663.93	688166.77	32°53'30.357"N	104°11'16.181"W	0.19	Proj to Bit

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
No. 3H PBHL		6554.00	119.15	-5315.49	544636.10	688158.20	32°53'30.273"N	104°11'16.507"W	point

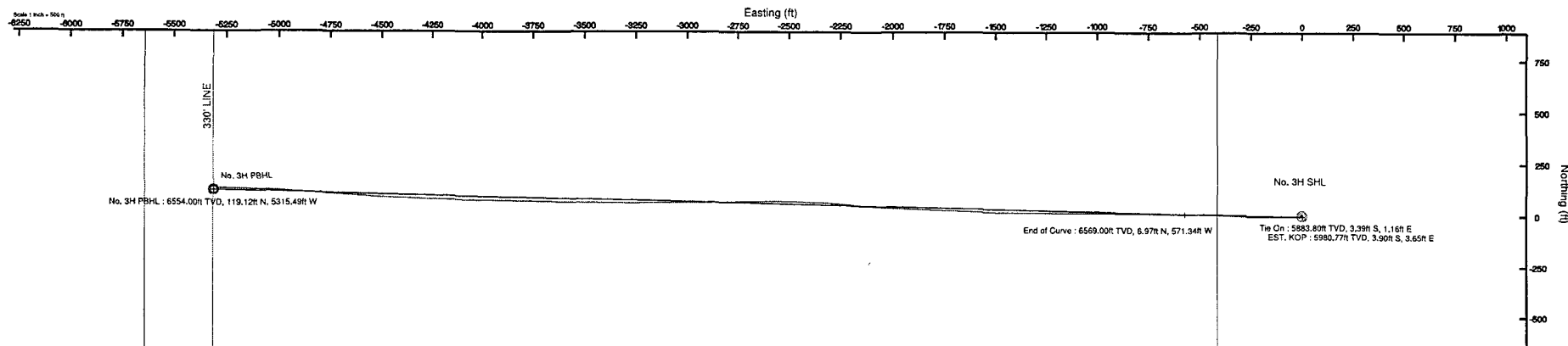
WELLPATH COMPOSITION Ref Wellbore: No. 3H AWB Ref Wellpath: No. 3H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5884.00	Generic gyro - northseeking (Standard)	Gyro	No. 3H AWB
5884.00	11620.00	NaviTrak (Standard)	MWD	No. 3H AWB

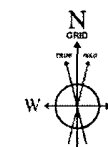
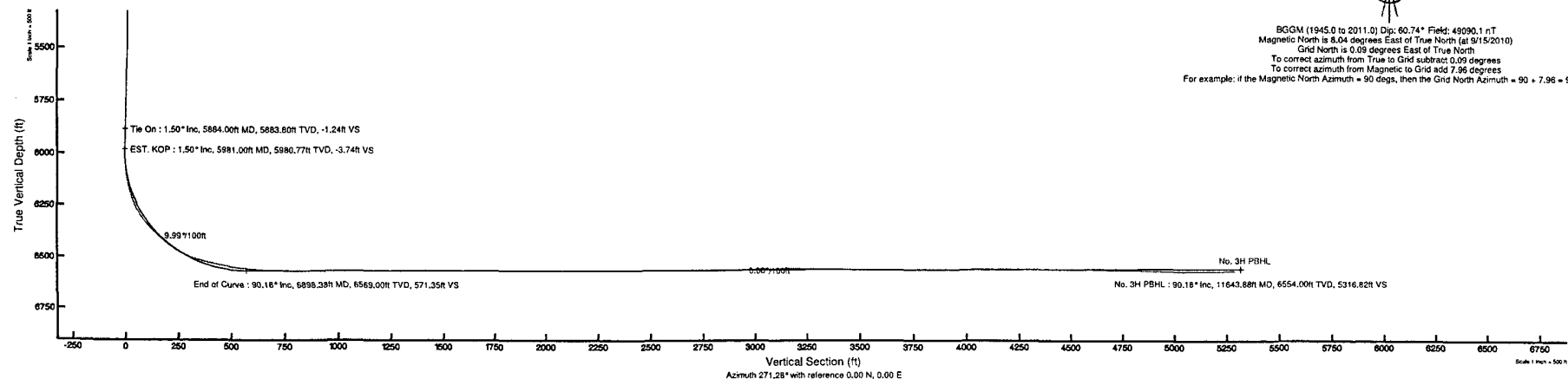
Location: Eddy County, NM
Field: (CF) Sec 27, T16S, R28E
Facility: Crow Flats 28 Fed No. 3H

Slot: No. 3H SHL
Well: No. 3H
Wellbore: No. 3H PWB

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	5884.00	1.500	101.500	5883.80	-3.39	1.16	0.00	-1.24
EST. KOP	5981.00	1.500	101.500	5980.77	-3.90	3.65	0.00	-3.74
End of Curve	6898.38	90.181	271.354	6569.00	6.97	-571.34	9.99	571.35
No. 3H PBHL	11643.88	90.181	271.355	6554.00	119.12	-5315.49	0.00	5316.82



Plot reference wellpath is Plan #1	
True vertical depths are referenced to Rig on No. 3H SHL (KB)	Grid System: NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No. 3H SHL (KB)	North Reference: Grid north
Rig on No. 3H SHL (KB) to Mean Sea Level: 3611.5 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: Crow Flats 28 Fed No. 3H): -3591 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: gomeoscr on 1/4/2011



BGGM (1945.0 to 2011.0) Dip: 60.74° Field: 49090.1 nT
Magnetic North is 8.04 degrees East of True North (at 9/15/2010)
Grid North is 0.09 degrees East of True North
To correct azimuth from True to Grid subtract 0.09 degrees
To correct azimuth from Magnetic to Grid add 7.96 degrees
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.96 = 97.96