

Mewbourne Oil Company

Location: Eddy County, NM
Field: (Lakewood) Sec 34, T19S, R25E
Facility: Lakewood 34 IP Fed No 1H

Slot: No. 1H SHL
Well: No. 1H
Wellbore: No. 1H PWB

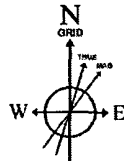
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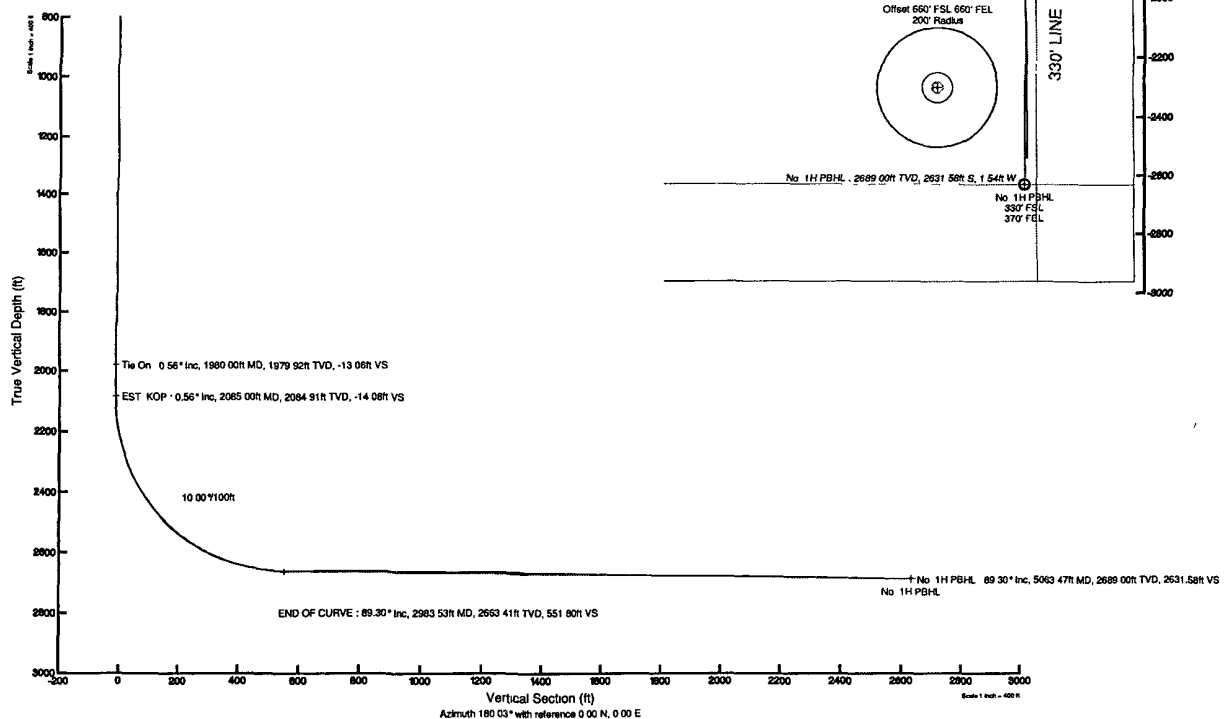
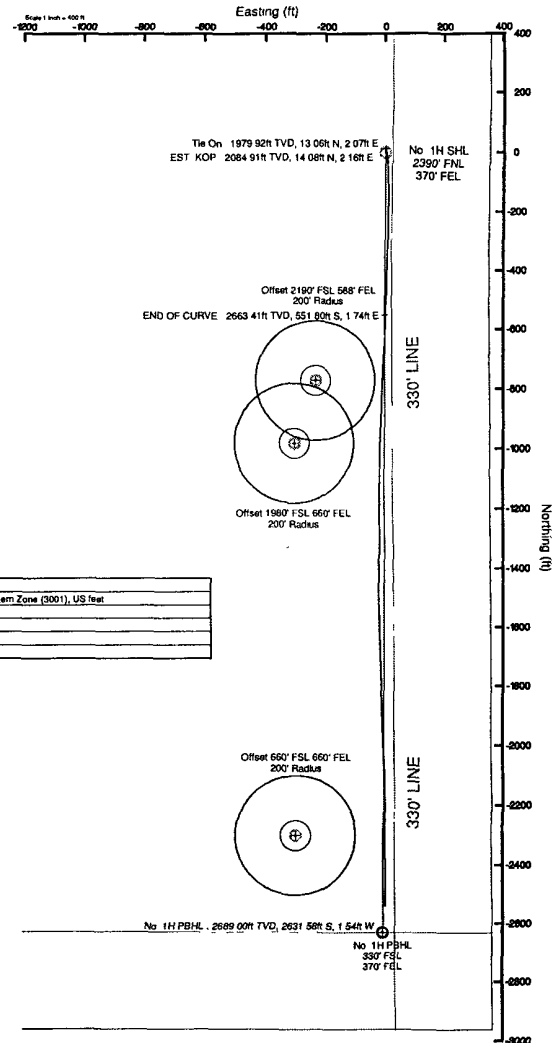
Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	1980 00	0 560	4 970	1979 92	13 06	2 07	0 13	-13 06
EST KOP	2085 00	0 560	4 970	2084 91	14 08	2 16	0 00	-14 08
END OF CURVE	2983 53	89 295	180 090	2663 41	-551 80	1 74	10 00	551 80
No 1H PBHL	5063 47	89 295	180 090	2669 00	-2631 58	-1 54	0 00	2631 58



BGGM (1945 0 to 2011 0) Dip: 60.43° Field: 48915.3 nT
Magnetic North is 8.20 degrees East of True North (at 5/19/2010)
Grid North is 0.07 degrees West of True North
To correct azimuth from True to Grid add 0.07 degrees
To correct azimuth from Magnetic to Grid add 8.27 degrees
For example, if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 8.27 = 98.27

Plot reference wellpath as Plan #1 vs Actual <FINAL>	Grid System: NAD27 / TM New Mexico State Planes, Eastern Zone (2001), US feet
True vertical depths are referenced to Rig on No. 1H SHL (KB)	North Reference: Grid north
Measured depths are referenced to Rig on No. 1H SHL (KB)	Scale: True distance
Rig on No. 1H SHL (KB) to Mean Sea Level: 3533 feet	Depths are in feet
Mean Sea Level to Mud line (Facility: Lakewood 34 IP Fed No 1H) -3519 feet	Coordinates are in feet referenced to Slot
Coordinates are in feet referenced to Slot	Created by: Victor Hernandez on 5/24/2010



Actual Wellpath Report

No. 1H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Lakewood) Sec 34, T19S, R25E	Wellbore	No. 1H AWB
Facility	Lakewood 34 IP Fed No. 1H		

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	Victor Hernandez
Scale	0.999911	Report Generated	5/25/2010 at 11:35:32 AM
Convergence at slot	0.07° West	Database/Source file	WA_Midland/No. 1H_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	459535.44	588466.34	32°37'03.825"N	104°27'53.118"W
Facility Reference Pt			459535.44	588466.34	32°37'03.825"N	104°27'53.118"W
Field Reference Pt			459535.44	588466.35	32°37'03.825"N	104°27'53.118"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No. 1H SHL (KB) to GL	14.00ft
Horizontal Reference Pt	Slot	Rig on No. 1H SHL (KB) to Mean Sea Level	3533.00ft
Vertical Reference Pt	Rig on No. 1H SHL (KB)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 1H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	180.03°

Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Lakewood) Sec 34, T19S, R25E	Wellbore	No. 1H AWP
Facility	Lakewood 34 IP Fed No. 1H		

WELLPATH DATA (115 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	70.500	0.00	0.00	0.00	0.00	459535.44	588466.34	32°37'03.825"N	104°27'53.118"W	0.00
100.00	0.550	70.500	100.00	-0.16	0.16	0.45	459535.89	588466.50	32°37'03.827"N	104°27'53.113"W	0.55
200.00	0.540	62.810	199.99	-0.54	0.54	1.32	459536.76	588466.88	32°37'03.830"N	104°27'53.103"W	0.07
300.00	0.540	58.050	299.99	-1.00	1.00	2.14	459537.58	588467.34	32°37'03.835"N	104°27'53.093"W	0.04
400.00	0.520	52.200	399.99	-1.53	1.53	2.90	459538.34	588467.87	32°37'03.840"N	104°27'53.084"W	0.06
500.00	0.560	351.580	499.98	-2.29	2.29	3.19	459538.63	588468.63	32°37'03.848"N	104°27'53.081"W	0.55
600.00	0.640	334.380	599.98	-3.28	3.28	2.88	459538.32	588469.62	32°37'03.858"N	104°27'53.085"W	0.20
700.00	0.450	311.750	699.97	-4.04	4.04	2.34	459537.78	588470.38	32°37'03.865"N	104°27'53.091"W	0.28
800.00	0.450	304.190	799.97	-4.52	4.52	1.72	459537.16	588470.86	32°37'03.870"N	104°27'53.098"W	0.06
900.00	0.330	307.250	899.97	-4.92	4.92	1.17	459536.61	588471.26	32°37'03.874"N	104°27'53.105"W	0.12
1000.00	0.270	297.610	999.96	-5.20	5.20	0.73	459536.17	588471.54	32°37'03.877"N	104°27'53.110"W	0.08
1100.00	0.290	311.010	1099.96	-5.48	5.48	0.33	459535.77	588471.82	32°37'03.879"N	104°27'53.114"W	0.07
1200.00	0.320	326.710	1199.96	-5.88	5.88	-0.01	459535.43	588472.22	32°37'03.883"N	104°27'53.118"W	0.09
1300.00	0.400	345.650	1299.96	-6.45	6.45	-0.25	459535.19	588472.79	32°37'03.889"N	104°27'53.121"W	0.14
1400.00	0.370	339.220	1399.96	-7.11	7.11	-0.32	459535.12	588473.45	32°37'03.895"N	104°27'53.122"W	0.13
1500.00	0.530	9.530	1499.96	-7.89	7.89	-0.22	459535.22	588474.23	32°37'03.903"N	104°27'53.121"W	0.17
1600.00	0.560	30.230	1599.95	-8.77	8.77	0.10	459535.54	588475.10	32°37'03.912"N	104°27'53.117"W	0.20
1700.00	0.800	31.310	1699.94	-9.78	9.78	0.71	459536.15	588476.12	32°37'03.922"N	104°27'53.110"W	0.24
1800.00	0.900	27.500	1799.93	-11.08	11.08	1.44	459536.88	588477.42	32°37'03.935"N	104°27'53.102"W	0.11
1900.00	0.590	14.760	1899.92	-12.27	12.27	1.93	459537.37	588478.61	32°37'03.947"N	104°27'53.096"W	0.35
1980.00	0.560	4.970	1979.92	-13.06	13.06	2.07	459537.51	588479.40	32°37'03.954"N	104°27'53.094"W	0.13
2015.00	0.700	9.400	2014.92	-13.44	13.44	2.12	459537.56	588479.78	32°37'03.958"N	104°27'53.094"W	0.42
2045.00	0.500	6.500	2044.92	-13.75	13.75	2.17	459537.61	588480.09	32°37'03.961"N	104°27'53.093"W	0.67
2075.00	0.300	67.900	2074.92	-13.91	13.91	2.25	459537.69	588480.25	32°37'03.963"N	104°27'53.092"W	1.48
2107.00	1.700	174.300	2106.91	-13.47	13.47	2.38	459537.82	588479.81	32°37'03.958"N	104°27'53.091"W	5.65
2140.00	4.900	177.000	2139.85	-11.58	11.58	2.50	459537.94	588477.91	32°37'03.940"N	104°27'53.089"W	9.71
2172.00	8.400	173.700	2171.63	-7.89	7.89	2.83	459538.27	588474.23	32°37'03.903"N	104°27'53.085"W	11.00
2203.00	11.300	169.600	2202.17	-2.65	2.65	3.63	459539.06	588468.99	32°37'03.851"N	104°27'53.076"W	9.62
2235.00	14.200	172.000	2233.38	4.32	-4.32	4.74	459540.18	588462.02	32°37'03.782"N	104°27'53.063"W	9.21
2267.00	17.400	172.000	2264.17	12.95	-12.95	5.95	459541.39	588453.39	32°37'03.697"N	104°27'53.048"W	10.00

Actual Wellpath Report

No. 1H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Lakewood) Sec 34, T19S, R25E	Wellbore	No. 1H AWP
Facility	Lakewood 34 IP Fed No. 1H		

WELLPATH DATA (115 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]
2299.00	20.500	173.000	2294.43	23.25	-23.25	7.30	459542.74	588443.09	32°37'03.595"N	104°27'53.033"W	9.74
2331.00	24.000	173.400	2324.04	35.28	-35.28	8.73	459544.17	588431.06	32°37'03.476"N	104°27'53.016"W	10.95
2362.00	27.300	175.100	2351.98	48.63	-48.63	10.06	459545.50	588417.71	32°37'03.344"N	104°27'53.000"W	10.91
2394.00	30.200	177.100	2380.04	63.98	-63.99	11.10	459546.54	588402.36	32°37'03.192"N	104°27'52.988"W	9.55
2426.00	32.600	179.700	2407.35	80.64	-80.65	11.55	459546.99	588385.70	32°37'03.027"N	104°27'52.982"W	8.61
2458.00	36.000	179.600	2433.78	98.67	-98.68	11.66	459547.10	588367.67	32°37'02.849"N	104°27'52.980"W	10.63
2490.00	39.100	179.700	2459.15	118.17	-118.18	11.78	459547.22	588348.17	32°37'02.656"N	104°27'52.979"W	9.69
2522.00	42.600	179.800	2483.35	139.10	-139.10	11.87	459547.31	588327.25	32°37'02.449"N	104°27'52.977"W	10.94
2554.00	46.100	180.200	2506.23	161.46	-161.47	11.87	459547.31	588304.88	32°37'02.227"N	104°27'52.977"W	10.97
2585.00	49.500	180.600	2527.05	184.42	-184.43	11.70	459547.14	588281.93	32°37'02.000"N	104°27'52.979"W	11.01
2616.00	52.600	180.500	2546.53	208.53	-208.54	11.47	459546.91	588257.82	32°37'01.762"N	104°27'52.981"W	10.00
2648.00	56.000	180.400	2565.20	234.51	-234.52	11.27	459546.71	588231.84	32°37'01.505"N	104°27'52.983"W	10.63
2680.00	59.000	180.200	2582.40	261.50	-261.50	11.13	459546.57	588204.86	32°37'01.238"N	104°27'52.984"W	9.39
2712.00	62.300	180.600	2598.08	289.38	-289.39	10.93	459546.37	588176.98	32°37'00.962"N	104°27'52.986"W	10.37
2744.00	65.700	181.200	2612.10	318.14	-318.14	10.48	459545.92	588148.22	32°37'00.677"N	104°27'52.991"W	10.76
2776.00	69.300	181.400	2624.35	347.69	-347.70	9.81	459545.25	588118.68	32°37'00.385"N	104°27'52.999"W	11.26
2807.00	72.400	181.500	2634.52	376.96	-376.97	9.07	459544.51	588089.41	32°37'00.095"N	104°27'53.007"W	10.00
2839.00	75.900	181.100	2643.26	407.73	-407.74	8.37	459543.81	588058.64	32°36'59.791"N	104°27'53.014"W	11.00
2871.00	79.100	181.000	2650.18	438.97	-438.97	7.80	459543.24	588027.41	32°36'59.482"N	104°27'53.021"W	10.00
2903.00	82.100	181.900	2655.41	470.52	-470.53	7.00	459542.44	587995.86	32°36'59.169"N	104°27'53.030"W	9.78
2935.00	84.500	182.000	2659.14	502.28	-502.29	5.92	459541.36	587964.10	32°36'58.855"N	104°27'53.042"W	7.51
2966.00	87.800	181.700	2661.22	533.19	-533.20	4.92	459540.36	587933.19	32°36'58.549"N	104°27'53.053"W	10.69
2998.00	89.300	181.900	2662.03	565.17	-565.17	3.91	459539.35	587901.22	32°36'58.233"N	104°27'53.064"W	4.73
3030.00	90.400	182.600	2662.11	597.14	-597.14	2.66	459538.10	587869.25	32°36'57.916"N	104°27'53.079"W	4.07
3062.00	91.200	182.400	2661.67	629.11	-629.11	1.26	459536.70	587837.29	32°36'57.600"N	104°27'53.094"W	2.58
3094.00	90.700	182.400	2661.14	661.08	-661.08	-0.08	459535.36	587805.32	32°36'57.284"N	104°27'53.110"W	1.56
3125.00	89.700	182.800	2661.03	692.05	-692.05	-1.49	459533.96	587774.36	32°36'56.977"N	104°27'53.126"W	3.47
3157.00	89.200	182.700	2661.34	724.01	-724.01	-3.02	459532.42	587742.40	32°36'56.661"N	104°27'53.143"W	1.59
3188.00	89.300	182.800	2661.74	754.97	-754.97	-4.51	459530.93	587711.44	32°36'56.355"N	104°27'53.160"W	0.46
3219.00	89.800	182.800	2661.99	785.93	-785.93	-6.02	459529.42	587680.48	32°36'56.048"N	104°27'53.177"W	1.61

Actual Wellpath Report

No. 1H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Lakewood) Sec 34, T19S, R25E	Wellbore	No. 1H AWP
Facility	Lakewood 34 IP Fed No. 1H		

WELLPATH DATA (115 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]
3251.00	89.300	182.600	2662.24	817.90	-817.89	-7.53	459527.91	587648.52	32°36'55.732"N	104°27'53.194"W	1.68
3282.00	89.300	182.400	2662.62	848.87	-848.86	-8.88	459526.56	587617.55	32°36'55.426"N	104°27'53.210"W	0.65
3314.00	89.400	182.000	2662.98	880.84	-880.84	-10.11	459525.33	587585.58	32°36'55.109"N	104°27'53.224"W	1.29
3346.00	89.700	181.900	2663.23	912.82	-912.82	-11.20	459524.24	587553.61	32°36'54.793"N	104°27'53.236"W	0.99
3378.00	89.300	181.500	2663.51	944.81	-944.80	-12.15	459523.29	587521.62	32°36'54.476"N	104°27'53.247"W	1.77
3410.00	89.400	181.300	2663.87	976.80	-976.79	-12.93	459522.51	587489.64	32°36'54.160"N	104°27'53.255"W	0.70
3441.00	89.100	180.400	2664.28	1007.79	-1007.78	-13.39	459522.05	587458.65	32°36'53.853"N	104°27'53.260"W	3.06
3473.00	89.600	180.500	2664.64	1039.79	-1039.78	-13.64	459521.80	587426.65	32°36'53.536"N	104°27'53.263"W	1.59
3505.00	88.700	180.400	2665.12	1071.78	-1071.78	-13.89	459521.55	587394.66	32°36'53.220"N	104°27'53.265"W	2.83
3537.00	88.900	180.300	2665.79	1103.78	-1103.77	-14.09	459521.35	587362.67	32°36'52.903"N	104°27'53.267"W	0.70
3568.00	89.600	181.100	2666.19	1134.77	-1134.76	-14.47	459520.98	587331.68	32°36'52.597"N	104°27'53.271"W	3.43
3599.00	90.200	180.300	2666.25	1165.77	-1165.76	-14.84	459520.60	587300.69	32°36'52.290"N	104°27'53.275"W	3.23
3631.00	89.800	180.400	2666.25	1197.77	-1197.76	-15.04	459520.40	587268.69	32°36'51.973"N	104°27'53.277"W	1.29
3663.00	90.300	180.500	2666.22	1229.77	-1229.76	-15.29	459520.15	587236.69	32°36'51.657"N	104°27'53.279"W	1.59
3695.00	89.200	181.000	2666.36	1261.76	-1261.75	-15.71	459519.73	587204.70	32°36'51.340"N	104°27'53.284"W	3.78
3727.00	89.200	180.400	2666.80	1293.76	-1293.75	-16.10	459519.34	587172.71	32°36'51.023"N	104°27'53.288"W	1.87
3759.00	88.100	180.700	2667.56	1325.75	-1325.74	-16.41	459519.03	587140.72	32°36'50.707"N	104°27'53.291"W	3.56
3790.00	88.400	181.800	2668.50	1356.73	-1356.72	-17.08	459518.36	587109.75	32°36'50.400"N	104°27'53.298"W	3.68
3822.00	88.900	180.000	2669.26	1388.71	-1388.70	-17.59	459517.85	587077.77	32°36'50.084"N	104°27'53.304"W	5.84
3854.00	89.400	180.200	2669.73	1420.71	-1420.70	-17.64	459517.80	587045.77	32°36'49.767"N	104°27'53.304"W	1.68
3886.00	89.200	180.200	2670.12	1452.71	-1452.69	-17.75	459517.69	587013.78	32°36'49.451"N	104°27'53.305"W	0.62
3918.00	88.200	179.500	2670.85	1484.70	-1484.69	-17.67	459517.77	586981.79	32°36'49.134"N	104°27'53.303"W	3.81
3950.00	87.900	179.200	2671.94	1516.68	-1516.67	-17.31	459518.13	586949.81	32°36'48.818"N	104°27'53.299"W	1.33
3982.00	88.200	178.600	2673.03	1548.65	-1548.64	-16.69	459518.75	586917.84	32°36'48.501"N	104°27'53.291"W	2.10
4014.00	88.900	178.400	2673.84	1580.63	-1580.62	-15.86	459519.59	586885.86	32°36'48.185"N	104°27'53.281"W	2.27
4046.00	89.200	179.000	2674.37	1612.62	-1612.61	-15.13	459520.31	586853.88	32°36'47.868"N	104°27'53.272"W	2.10
4077.00	88.000	178.300	2675.13	1643.60	-1643.59	-14.40	459521.04	586822.90	32°36'47.562"N	104°27'53.263"W	4.48
4109.00	88.100	178.400	2676.21	1675.56	-1675.56	-13.48	459521.96	586790.94	32°36'47.246"N	104°27'53.252"W	0.44
4141.00	88.600	178.300	2677.14	1707.54	-1707.53	-12.56	459522.88	586758.97	32°36'46.929"N	104°27'53.240"W	1.59
4173.00	89.000	178.300	2677.81	1739.51	-1739.51	-11.61	459523.83	586726.99	32°36'46.613"N	104°27'53.229"W	1.25

Actual Wellpath Report

No. 1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Lakewood) Sec 34, T19S, R25E	Wellbore	No. 1H AWP
Facility	Lakewood 34 IP Fed No. 1H		

WELLPATH DATA (115 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]
4205.00	89.400	177.800	2678.25	1771.49	-1771.49	-10.52	459524.92	586695.01	32°36'46.296"N	104°27'53.216"W	2.00
4236.00	89.700	177.700	2678.50	1802.47	-1802.46	-9.30	459526.14	586664.04	32°36'45.990"N	104°27'53.201"W	1.02
4268.00	90.000	177.800	2678.58	1834.44	-1834.44	-8.05	459527.39	586632.07	32°36'45.674"N	104°27'53.186"W	0.99
4300.00	89.400	178.100	2678.75	1866.42	-1866.42	-6.90	459528.54	586600.09	32°36'45.357"N	104°27'53.172"W	2.10
4332.00	89.400	177.900	2679.08	1898.40	-1898.39	-5.79	459529.65	586568.12	32°36'45.041"N	104°27'53.158"W	0.62
4364.00	89.800	177.500	2679.31	1930.37	-1930.37	-4.50	459530.94	586536.15	32°36'44.724"N	104°27'53.143"W	1.77
4395.00	90.200	177.600	2679.31	1961.34	-1961.34	-3.18	459532.26	586505.18	32°36'44.418"N	104°27'53.127"W	1.33
4427.00	89.600	177.800	2679.36	1993.31	-1993.31	-1.89	459533.55	586473.21	32°36'44.102"N	104°27'53.112"W	1.98
4459.00	89.800	177.800	2679.53	2025.29	-2025.29	-0.66	459534.78	586441.24	32°36'43.785"N	104°27'53.097"W	0.62
4491.00	90.100	178.100	2679.56	2057.27	-2057.27	0.48	459535.92	586409.26	32°36'43.469"N	104°27'53.083"W	1.33
4523.00	88.900	178.700	2679.84	2089.25	-2089.25	1.37	459536.81	586377.28	32°36'43.152"N	104°27'53.072"W	4.19
4554.00	89.000	178.600	2680.40	2120.24	-2120.24	2.10	459537.54	586346.29	32°36'42.846"N	104°27'53.063"W	0.46
4586.00	89.300	178.900	2680.88	2152.23	-2152.23	2.80	459538.24	586314.31	32°36'42.529"N	104°27'53.054"W	1.33
4618.00	89.600	178.300	2681.19	2184.22	-2184.22	3.58	459539.02	586282.32	32°36'42.213"N	104°27'53.045"W	2.10
4650.00	90.000	178.800	2681.30	2216.20	-2216.21	4.39	459539.83	586250.33	32°36'41.896"N	104°27'53.035"W	2.00
4682.00	88.600	179.400	2681.69	2248.20	-2248.20	4.90	459540.34	586218.34	32°36'41.580"N	104°27'53.028"W	4.76
4714.00	88.600	179.300	2682.47	2280.19	-2280.19	5.26	459540.70	586186.36	32°36'41.263"N	104°27'53.024"W	0.31
4746.00	88.800	179.200	2683.20	2312.17	-2312.18	5.68	459541.12	586154.37	32°36'40.947"N	104°27'53.018"W	0.70
4778.00	89.000	179.500	2683.81	2344.17	-2344.17	6.04	459541.48	586122.38	32°36'40.630"N	104°27'53.014"W	1.13
4809.00	89.400	179.300	2684.24	2375.16	-2375.16	6.37	459541.81	586091.39	32°36'40.323"N	104°27'53.009"W	1.44
4841.00	89.700	179.700	2684.50	2407.16	-2407.16	6.64	459542.08	586059.40	32°36'40.007"N	104°27'53.006"W	1.56
4873.00	88.800	180.400	2684.91	2439.15	-2439.16	6.62	459542.06	586027.40	32°36'39.690"N	104°27'53.006"W	3.56
4904.00	88.800	180.400	2685.56	2470.15	-2470.15	6.40	459541.84	585996.41	32°36'39.383"N	104°27'53.008"W	0.00
4936.00	89.100	180.200	2686.15	2502.14	-2502.15	6.23	459541.67	585964.42	32°36'39.067"N	104°27'53.009"W	1.13
4976.00	89.100	180.200	2686.78	2542.14	-2542.14	6.09	459541.53	585924.43	32°36'38.671"N	104°27'53.010"W	0.00

Actual Wellpath Report

No. 1H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Lakewood) Sec 34, T19S, R25E	Wellbore	No. 1H AWB
Facility	Lakewood 34 IP Fed No. 1H		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
No. 1H PBHL		2689.00	-2631.58	-1.54	459533.90	585835.00	32°36'37.786"N	104°27'53.098"W	point
Offset 1980' FSL 660' FEL		2700.00	-980.73	-301.77	459233.70	587485.70	32°36'54.117"N	104°27'56.632"W	circle
Offset 2190' FSL 588' FEL		2700.00	-770.91	-231.06	459304.40	587695.50	32°36'56.194"N	104°27'55.808"W	circle
Offset 660' FSL 660' FEL		2700.00	-2300.85	-293.57	459241.90	586165.70	32°36'41.055"N	104°27'56.517"W	circle

WELLPATH COMPOSITION					Ref Wellbore: No. 1H AWB	Ref Wellpath: No. 1H AWP
Start MD [ft]	End MD [ft]	Positional Uncertainty Model		Log Name/Comment		Wellbore
0.00	1980.00	Gyrodatta standard - Drop gyro or Multi-shot		GYRO <100 - 1980>		No. 1H AWB
1980.00	4936.00	NaviTrak (Standard)		MWD <2015 - 4936>		No. 1H AWB
4936.00	4976.00	Blind Drilling (std)		Projection to bit		No. 1H AWB

A Gyrodata Directional Survey

for

MEWBOURNE OIL CO.

**Lease: LAKEWOOD 34 FED IP Well: #1H, 4-1/2" DRILLPIPE
Location: PATTERSON #63, EDDY COUNTY, NEW MEXICO**

Job Number: MD0510GBM226

Run Date: 5/19/2010 3:19:28 AM

Surveyor: Steve Winther

Calculation Method: MINIMUM CURVATURE

Survey surface coordinates obtained from: Well Plan/Plot
Survey Latitude: 32.617731 deg. N Longitude: 104.464756 deg. W

Azimuth Correction:
Gyro: 0.07000 deg to Grid North

Depth Reference: Rotary Table

Rotary Table Elevation: 15.00

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

A Gyrodata Directional Survey

MEWBOURNE OIL CO.

Lease: LAKEWOOD 34 FED IP Well: #1H, 4-1/2" DRILLPIPE

Location: PATTERSON #63, EDDY COUNTY, NEW MEXICO

Job Number: MD0510GBM226

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	0.00	0.00	0.0 0.0	0.00 N 0.00 E

0 TO 1980 FT. RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4-1/2" DRILLPIPE						
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO PATTERSON DRILLING RIG #63 AND R.K.B. HEIGHT OF 15 FT.						

100.00	0.55	70.50	0.55	100.00	0.5 70.5	0.16 N 0.46 E
200.00	0.54	62.81	0.07	199.99	1.4 68.0	0.54 N 1.33 E
300.00	0.54	58.05	0.04	299.99	2.4 65.0	1.00 N 2.15 E
400.00	0.52	52.20	0.06	399.99	3.3 62.2	1.53 N 2.91 E
500.00	0.56	351.58	0.55	499.98	3.9 54.4	2.29 N 3.20 E
600.00	0.64	334.38	0.19	599.98	4.4 41.4	3.27 N 2.89 E
700.00	0.45	311.75	0.28	699.97	4.7 30.3	4.03 N 2.36 E
800.00	0.45	304.19	0.06	799.97	4.8 21.0	4.52 N 1.74 E
900.00	0.33	307.25	0.12	899.97	5.1 13.5	4.91 N 1.18 E
1000.00	0.27	297.61	0.08	999.96	5.3 8.1	5.20 N 0.74 E
1100.00	0.29	311.01	0.07	1099.96	5.5 3.5	5.47 N 0.34 E
1200.00	0.32	326.71	0.09	1199.96	5.9 359.9	5.87 N 0.01 W
1300.00	0.40	345.65	0.14	1299.96	6.4 357.8	6.44 N 0.25 W
1400.00	0.37	3.92	0.12	1399.96	7.1 357.5	7.09 N 0.31 W
1500.00	0.53	9.53	0.17	1499.96	7.9 358.5	7.87 N 0.21 W
1600.00	0.56	30.23	0.20	1599.95	8.7 0.7	8.75 N 0.11 E
1700.00	0.80	31.31	0.24	1699.94	9.8 4.2	9.77 N 0.72 E
1800.00	0.90	27.50	0.11	1799.93	11.2 7.5	11.07 N 1.45 E
1900.00	0.59	14.76	0.35	1899.92	12.4 9.0	12.27 N 1.95 E
1980.00	0.56	4.97	0.13	1979.92	13.2 9.1	13.06 N 2.09 E

Final Station Closure: Distance: 13.22 ft Az: 9.09 deg.

ADVANTAGE Final Survey Listing



INTEQ

Operator Mewbourne Oil Company **Fields** (Lakewood) Sec 34, T19S, R25E **API No** 30-015-37710 **Location** S34 T19S R25E
Well Lakewood 34 IP Fed No. 1H **Wellbore** Original Path Hole **Rig** Patterson UTI 63 **Job** 3169447

Well Origin

Latitude	32.62 deg	Longitude	-104.46 deg
North Reference	Grid	Drill Depth Zero	
Vertical Datum is	Mean Sea Level	Vertical Datum to DDZ	14.00 ft
Vertical Section North	0.00 ft	Vertical Section East	0.00 ft
Vertical Section Azimuth	180.03 deg	Vertical Section Depth	0.00 ft
Grid Convergence	0.07 deg	Magnetic Declination	8.20 deg
Total Correction	8.27 deg	TVD Calculation Method	Minimum Curvature
D-Row Calculation	Magcorr1	Local Magnetic Field	48942 nT
Local Magnetic Dip Angle	60.43 deg	Local Gravity Field	9.79534 m/s^2

File In	MD ft	Incl deg	Azim deg	North ft	East ft	TVD ft	VS ft	Incr VS ft	CRS LEN ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft
U	1980.00	0.56	4.97	13.06	2.09	1979.92	13.20		1,980.00			
	2015.00	0.70	9.40	13.44	2.14	2014.92	-13.44	0.38	35.00	0.42	0.40	12.66
	2045.00	0.50	6.50	13.75	2.18	2044.92	-13.75	0.70	30.00	0.67	-0.67	-9.67
	2076.00	0.30	67.90	13.92	2.27	2075.92	-13.92	0.89	31.00	1.43	-0.65	198.06
	2108.00	1.70	174.30	13.48	2.40	2107.91	-13.48	1.34	32.00	5.64	4.37	332.50
	2140.00	4.90	177.00	11.64	2.52	2139.85	-11.64	3.18	32.00	10.02	10.01	8.44
	2172.00	8.40	173.70	7.95	2.85	2171.63	-7.95	6.89	32.00	11.00	10.94	-10.31
	2204.00	11.30	169.60	2.54	3.67	2203.16	-2.54	12.36	32.00	9.32	9.06	-12.81
	2235.00	14.50	172.00	-4.29	4.76	2233.37	4.29	19.28	31.00	10.46	10.32	7.74
	2265.00	17.40	172.00	-12.45	5.90	2262.21	12.45	27.52	30.00	9.67	9.67	0.00
	2297.00	20.50	173.00	-22.75	7.25	2292.48	22.75	37.91	32.00	9.74	9.69	3.13
	2331.00	24.00	173.40	-35.54	8.77	2323.94	35.53	50.78	34.00	10.30	10.29	1.18
	2362.00	27.30	175.10	-48.89	10.11	2351.88	48.88	64.20	31.00	10.91	10.65	5.48
	2394.00	30.20	177.10	-64.24	11.14	2379.93	64.23	79.59	32.00	9.55	9.06	6.25
	2426.00	32.60	179.70	-80.90	11.59	2407.25	80.89	96.25	32.00	8.61	7.50	8.13
	2458.00	36.00	179.60	-98.93	11.70	2433.68	98.92	114.28	32.00	10.63	10.63	-0.31
	2490.00	39.10	179.70	-118.43	11.82	2459.05	118.42	133.78	32.00	9.69	9.69	0.32
	2522.00	42.60	179.80	-139.36	11.91	2483.25	139.35	154.71	32.00	10.94	10.94	0.31
	2554.00	46.10	180.20	-161.72	11.91	2506.13	161.72	177.08	32.00	10.97	10.94	1.25
	2585.00	49.50	180.60	-184.68	11.75	2526.95	184.68	200.04	31.00	11.01	10.97	1.29
	2616.00	52.60	180.50	-208.79	11.52	2546.43	208.78	224.14	31.00	10.00	10.00	-0.32
	2648.00	56.00	180.40	-234.77	11.31	2565.10	234.76	250.13	32.00	10.63	10.62	-0.31
	2680.00	59.00	180.20	-261.76	11.17	2582.30	261.75	277.11	32.00	9.39	9.38	-0.63
	2712.00	62.30	180.60	-289.64	10.98	2597.98	289.64	305.00	32.00	10.37	10.31	1.25
	2744.00	65.70	181.20	-318.40	10.52	2612.00	318.39	333.76	32.00	10.76	10.63	1.88
	2776.00	69.30	181.40	-347.95	9.85	2624.25	347.94	363.32	32.00	11.26	11.25	0.63
	2807.00	72.40	181.50	-377.22	9.11	2634.42	377.22	392.60	31.00	10.00	10.00	0.32
	2839.00	75.90	181.10	-407.99	8.41	2643.15	407.99	423.38	32.00	11.00	10.94	-1.25
	2871.00	79.10	181.00	-439.22	7.84	2650.08	439.22	454.61	32.00	10.00	10.00	-0.31
	2903.00	82.10	181.90	-470.78	7.04	2655.31	470.78	486.18	32.00	9.78	9.38	2.81
	2935.00	84.50	182.00	-502.54	5.96	2659.04	502.54	517.96	32.00	7.51	7.50	0.31
	2966.00	87.80	181.70	-533.45	4.96	2661.12	533.45	548.89	31.00	10.69	10.65	-0.97
	2998.00	89.30	181.90	-565.42	3.96	2661.93	565.42	580.87	32.00	4.73	4.69	0.63
	3030.00	90.40	182.60	-597.40	2.70	2662.01	597.40	612.87	32.00	4.07	3.44	2.19
	3062.00	91.20	182.40	-629.36	1.31	2661.57	629.36	644.87	32.00	2.58	2.50	-0.64
	3094.00	90.70	182.40	-661.33	-0.03	2661.04	661.33	676.87	32.00	1.56	-1.56	0.01
	3125.00	89.70	182.80	-692.30	-1.44	2660.93	692.30	707.86	31.00	3.47	-3.23	1.29
	3157.00	89.20	182.70	-724.26	-2.97	2661.23	724.26	739.86	32.00	1.59	-1.56	-0.31
	3188.00	89.30	182.80	-755.22	-4.46	2661.64	755.22	770.86	31.00	0.46	0.32	0.32
	3219.00	89.80	182.80	-786.18	-5.98	2661.88	786.19	801.86	31.00	1.61	1.61	0.00
	3251.00	89.30	182.60	-818.15	-7.48	2662.14	818.15	833.86	32.00	1.68	-1.56	-0.63
	3282.00	89.30	182.40	-849.11	-8.84	2662.51	849.12	864.86	31.00	0.65	0.00	-0.65
	3314.00	89.40	182.00	-881.09	-10.06	2662.88	881.09	896.85	32.00	1.29	0.31	-1.25
	3346.00	89.70	181.90	-913.07	-11.15	2663.13	913.07	928.85	32.00	0.99	0.94	-0.31
	3378.00	89.30	181.50	-945.05	-12.10	2663.41	945.06	960.85	32.00	1.77	-1.25	-1.25
	3410.00	89.40	181.30	-977.04	-12.88	2663.77	977.05	992.85	32.00	0.70	0.31	-0.63
	3441.00	89.10	180.40	-1008.04	-13.34	2664.18	1008.04	1023.85	31.00	3.06	-0.97	-2.90
	3473.00	89.60	180.40	-1040.03	-13.57	2664.54	1040.04	1055.84	32.00	1.56	1.56	0.00
	3505.00	88.70	180.40	-1072.03	-13.79	2665.01	1072.04	1087.84	32.00	2.81	-2.81	0.00
	3537.00	88.90	180.30	-1104.02	-13.99	2665.69	1104.03	1119.83	32.00	0.70	0.63	-0.31

ADVANTAGE Final Survey Listing



INTEQ

Operator Mewbourne Oil Company **Fields** (Lakewood) Sec 34, T19S, R25E **API No** 30-015-37710 **Location** S34 T19S R25E
Well Lakewood 34 IP Fed No. 1H **Wellbore** Original Path Hole **Rig** Patterson UTI 63 **Job** 3169447

Tie In	MD ft	Incl deg	Azim deg	North ft	East ft	TVD ft	VS ft	Incr VS ft	CRS LEN ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft
	3568.00	89.60	181.10	-1135.02	-14.36	2666.09	1135.02	1150.83	31.00	3.43	2.26	2.58
	3599.00	90.20	180.30	-1166.01	-14.74	2666.14	1166.02	1181.83	31.00	3.23	1.94	-2.58
	3631.00	89.80	180.40	-1198.01	-14.94	2666.14	1198.02	1213.83	32.00	1.29	-1.25	0.31
	3663.00	90.30	180.50	-1230.01	-15.19	2666.12	1230.02	1245.83	32.00	1.59	1.56	0.31
	3695.00	89.20	181.00	-1262.01	-15.61	2666.26	1262.02	1277.83	32.00	3.79	-3.45	1.56
	3727.00	89.20	180.40	-1294.00	-16.00	2666.71	1294.01	1309.83	32.00	1.87	0.01	-1.88
	3759.00	88.10	180.70	-1325.99	-16.31	2667.46	1326.00	1341.82	32.00	3.56	-3.44	0.94
	3790.00	88.40	181.80	-1356.97	-16.98	2668.41	1356.98	1372.80	31.00	3.68	0.97	3.55
	3822.00	88.90	180.00	-1388.95	-17.49	2669.16	1388.96	1404.79	32.00	5.82	1.56	-5.61
	3854.00	89.40	180.20	-1420.95	-17.54	2669.63	1420.96	1436.79	32.00	1.68	1.56	0.61
	3886.00	89.20	180.20	-1452.95	-17.66	2670.03	1452.96	1468.78	32.00	0.63	-0.63	0.00
	3918.00	88.20	179.50	-1484.94	-17.57	2670.75	1484.95	1500.78	32.00	3.81	-3.13	-2.19
	3950.00	87.90	179.20	-1516.92	-17.21	2671.84	1516.93	1532.76	32.00	1.33	-0.94	-0.94
	3982.00	88.20	178.60	-1548.89	-16.59	2672.93	1548.90	1564.74	32.00	2.10	0.94	-1.88
	4014.00	88.90	178.40	-1580.87	-15.76	2673.74	1580.88	1596.73	32.00	2.27	2.19	-0.63
	4046.00	89.20	179.00	-1612.86	-15.03	2674.27	1612.87	1628.72	32.00	2.10	0.94	1.88
	4077.00	88.00	178.30	-1643.84	-14.30	2675.03	1643.85	1659.71	31.00	4.48	-3.87	-2.26
	4109.00	88.10	178.40	-1675.81	-13.38	2676.12	1675.82	1691.70	32.00	0.44	0.31	0.31
	4141.00	88.60	178.30	-1707.78	-12.46	2677.04	1707.79	1723.68	32.00	1.59	1.56	-0.31
	4173.00	89.00	178.30	-1739.76	-11.51	2677.71	1739.77	1755.67	32.00	1.25	1.25	0.00
	4205.00	89.40	177.80	-1771.74	-10.42	2678.15	1771.74	1787.67	32.00	2.00	1.25	-1.56
	4236.00	89.70	177.70	-1802.71	-9.20	2678.40	1802.72	1818.67	31.00	1.02	0.97	-0.32
	4268.00	90.00	177.80	-1834.69	-7.95	2678.48	1834.69	1850.67	32.00	0.99	0.94	0.31
	4300.00	89.40	178.10	-1866.67	-6.80	2678.65	1866.67	1882.67	32.00	2.10	-1.88	0.94
	4332.00	89.40	177.90	-1898.65	-5.69	2678.98	1898.65	1914.67	32.00	0.62	0.00	-0.63
	4364.00	89.80	177.50	-1930.62	-4.40	2679.21	1930.62	1946.67	32.00	1.77	1.25	-1.25
	4395.00	90.20	177.60	-1961.59	-3.08	2679.21	1961.59	1977.67	31.00	1.33	-1.29	0.32
	4427.00	89.60	177.80	-1993.57	-1.79	2679.26	1993.57	2009.67	32.00	1.98	-1.88	0.63
	4459.00	89.90	177.80	-2025.54	-0.56	2679.40	2025.54	2041.67	32.00	0.94	0.94	0.00
	4491.00	90.10	178.10	-2057.52	0.58	2679.40	2057.52	2073.67	32.00	1.13	0.63	0.94
	4523.00	88.90	178.70	-2089.51	1.47	2679.68	2089.51	2105.66	32.00	4.19	-3.75	1.88
	4554.00	89.00	178.60	-2120.49	2.20	2680.25	2120.49	2136.66	31.00	0.46	0.32	-0.32
	4586.00	89.30	178.90	-2152.48	2.90	2680.73	2152.48	2168.66	32.00	1.33	0.94	0.94
	4618.00	89.60	178.30	-2184.47	3.68	2681.03	2184.47	2200.65	32.00	2.10	0.94	-1.88
	4650.00	90.00	178.80	-2216.46	4.49	2681.14	2216.46	2232.65	32.00	2.00	1.25	1.56
	4682.00	88.60	179.40	-2248.45	5.00	2681.54	2248.45	2264.65	32.00	4.76	-4.38	1.88
	4714.00	88.60	179.30	-2280.44	5.36	2682.32	2280.44	2296.64	32.00	0.31	0.00	-0.31
	4746.00	88.80	179.20	-2312.43	5.78	2683.04	2312.43	2328.63	32.00	0.69	0.62	-0.31
	4778.00	89.00	179.50	-2344.42	6.14	2683.66	2344.42	2360.63	32.00	1.12	0.63	0.93
	4809.00	89.40	179.30	-2375.42	6.47	2684.09	2375.41	2391.62	31.00	1.44	1.29	-0.64
	4841.00	89.70	179.70	-2407.42	6.75	2684.34	2407.41	2423.62	32.00	1.56	0.94	1.25
	4873.00	88.80	180.40	-2439.41	6.72	2684.76	2439.41	2455.62	32.00	3.56	-2.81	2.19
	4904.00	88.80	180.40	-2470.40	6.50	2685.41	2470.40	2486.61	31.00	0.00	0.00	0.00
	4936.00	89.10	180.20	-2502.40	6.33	2686.00	2502.39	2518.61	32.00	1.13	0.94	-0.63

Projection to TD

4976.00	89.10	180.20	-2542.39	6.19	2686.63	2542.39	2558.60	40.00	0.00	0.00	0.00
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Tie Column Legend: I - Interpolated tie-point, S - survey station, U - user-defined, T - Surface