

OPERATOR
WELL/LEASE
COUNTY

MEWBOURNE OIL COMPANY
RED HILLS WEST 8 FEDERAL COM 1H

STATE OF NEW MEXICO
DEVIATION REPORT

30-025-39902

235	0.41
474	0.41
755	0.48
1,096	0.86
1,104	1.46
1,366	0.77
1,619	0.67
1,865	1.58
2,104	2.15
2,435	2.29
2,593	0.94
2,783	0.67
3,005	0.84
3,282	0.76
3,534	1.09
3,947	2.28
4,169	3.89
4,232	3.65
4,327	2.64
4,422	2.43
4,551	2.60
4,646	1.96
4,753	1.76
5,042	1.35
5,392	0.89
5,772	0.38
6,184	0.74
6,628	0.76
6,976	1.34
7,198	0.85
7,580	1.20
7,833	1.81
8,117	1.87

RECEIVED
FEB 07 2011
HOBBSDOCD

BY: Linda Robinson

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on 12/09/10, by Linda Robinson on behalf of Patterson-UTI Drilling Company LLC.

[Signature]
Notary Public for Midland County, Texas
My Commission Expires:

APR 20 2011

RECEIVED
DEC 20 2010

APR 20 2011

Mewbourne Oil Company

Location: Lea County, NM
Field: (Red West) Sec 8, T26S, R32E
Facility: Red Hills West 8 Fed Com No. 1H

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



Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	8300.00	1.510	217.180	8297.19	-127.91	26.99	0.00	-128.13
EST. KOP	8373.00	1.510	217.180	8370.17	-129.44	25.83	0.00	-129.66
END OF CURVE	9285.02	90.000	359.323	8955.03	443.30	9.60	10.00	443.20
No. 1H PBHL	13525.32	90.000	359.323	8955.00	4683.31	-40.48	0.00	4683.49



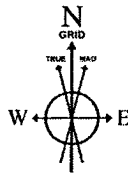
Mewbourne Oil Company

Plot reference wellpath is Plan #1	Grid System: NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet
True vertical depths are referenced to Rig on No. 1H SHL (RB)	North Reference: Grid north
Measured depths are referenced to Rig on No. 1H SHL (RB)	Scale: True distance
Rig on No. 1H SHL (RB) to Mean Sea Level: 3211 feet	Depths are in feet
Mean Sea Level to Mud line (Facility: Red Hills West 8 Fed Com No. 1H): 3193 feet	Created by: Victor Hernandez on 10/26/2010
Coordinates are in feet referenced to Slot	

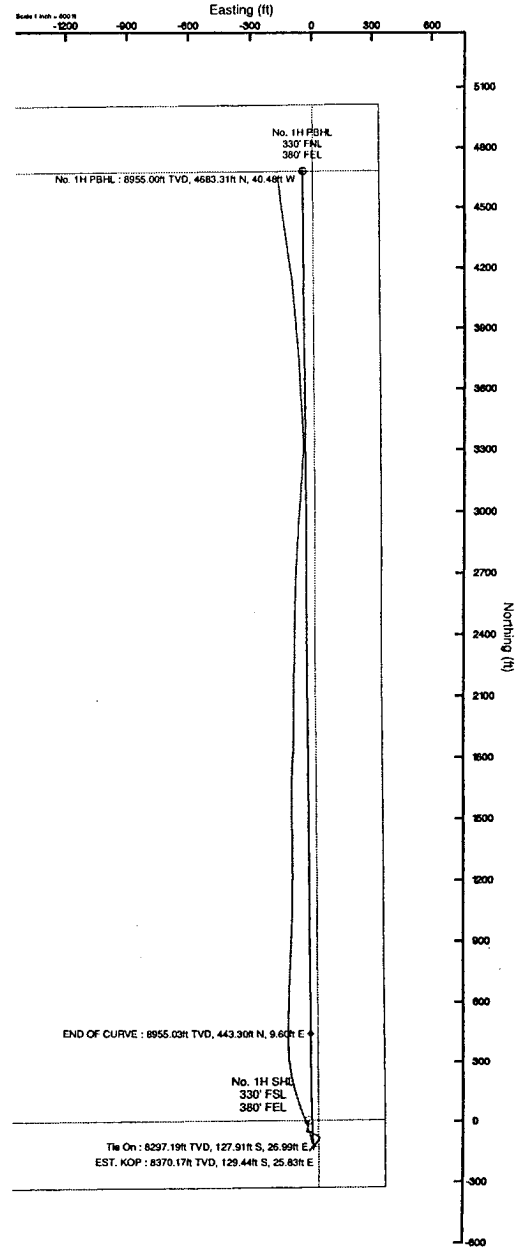
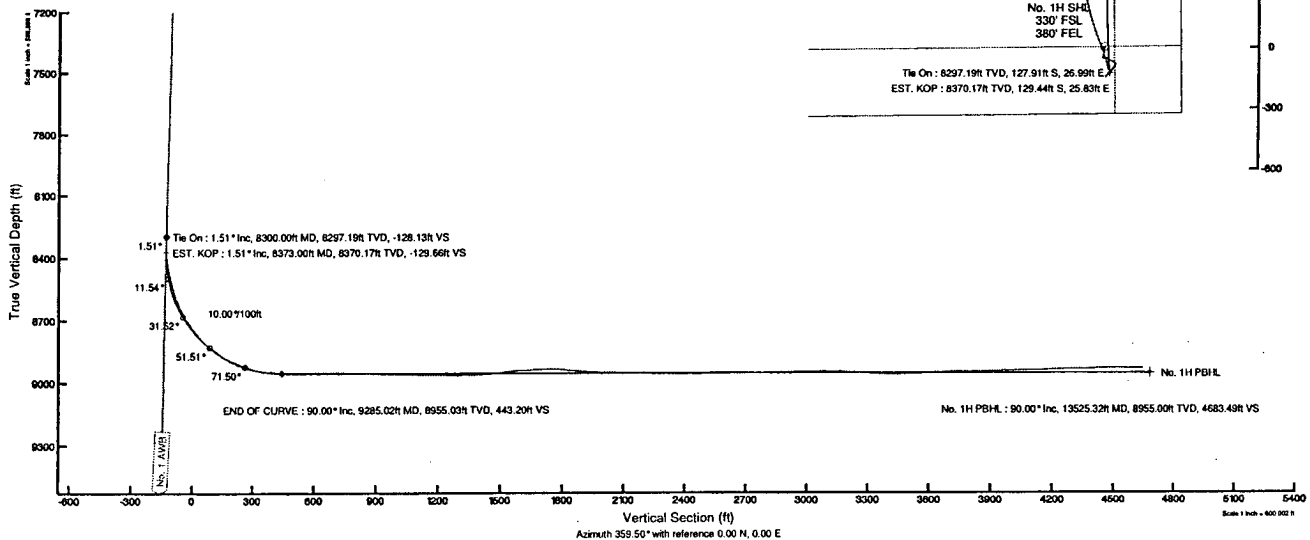
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FEB 07 2011

HOBBSDCD



BGGM (1945.0 to 2011.0) Dip: 60.04° Field: 48664.1 nT
Magnetic North is 7.78 degrees East of True North (at 6/14/2010)
Grid North is 0.34 degrees East of True North
To correct azimuth from True to Grid subtract 0.34 degrees
To correct azimuth from Magnetic to Grid add 7.44 degrees
For example: If the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.44 = 97.44



Actual Wellpath Report

Mewbourne Oil Company

No. 1H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Red West) Sec 8, T26S, R32E	Wellbore	No. 1H AWB
Facility	Red Hills West 8 Fed Com No. 1H	Sidetrack from	No. 1 AWB at 8300.00 MD

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	0.999955	Report Generated	11/22/2010 at 7:57:21 AM
Convergence at slot	0.34° East	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	699521.08	382884.11	32°03'03.699"N	103°41'21.678"W
Facility Reference Pt			699521.08	382884.11	32°03'03.699"N	103°41'21.678"W
Field Reference Pt			699521.08	382884.11	32°03'03.699"N	103°41'21.678"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No. 1H SHL (KB) to GL	18.00ft
Horizontal Reference Pt	Slot	Rig on No. 1H SHL (KB) to Mean Sea Level	3211.00ft
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	359.50°

Actual Wellpath Report

No. 1H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
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Field	(Red West) Sec 8, T26S, R32E	Wellbore	No. 1H AWB
Facility	Red Hills West 8 Fed Com No. 1H	Sidetrack from	No. 1 AWB at 8300.00 MD

WELLPATH DATA (241 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	130.110	0.00	0.00	0.00	0.00	699521.08	382884.11	32°03'03.699"N	103°41'21.678"W	0.00
100.00	0.220	130.110	100.00	-0.12	-0.12	0.15	699521.23	382883.99	32°03'03.698"N	103°41'21.676"W	0.22
200.00	0.120	158.200	200.00	-0.35	-0.34	0.33	699521.41	382883.77	32°03'03.696"N	103°41'21.674"W	0.13
300.00	0.230	227.050	300.00	-0.58	-0.58	0.22	699521.30	382883.53	32°03'03.694"N	103°41'21.675"W	0.22
400.00	0.280	215.300	400.00	-0.91	-0.91	-0.06	699521.02	382883.20	32°03'03.690"N	103°41'21.679"W	0.07
500.00	0.500	196.610	500.00	-1.53	-1.53	-0.33	699520.75	382882.58	32°03'03.684"N	103°41'21.682"W	0.25
600.00	0.680	194.590	599.99	-2.52	-2.52	-0.60	699520.48	382881.59	32°03'03.675"N	103°41'21.685"W	0.18
700.00	0.750	186.830	699.98	-3.74	-3.75	-0.83	699520.25	382880.36	32°03'03.662"N	103°41'21.688"W	0.12
800.00	0.750	200.980	799.97	-5.00	-5.01	-1.14	699519.94	382879.10	32°03'03.650"N	103°41'21.692"W	0.18
900.00	1.240	185.230	899.96	-6.69	-6.70	1.48	699519.60	382877.41	32°03'03.633"N	103°41'21.696"W	0.56
1000.00	1.090	216.050	999.94	-8.53	-8.54	-2.13	699518.95	382875.57	32°03'03.615"N	103°41'21.703"W	0.64
1100.00	1.240	181.190	1099.92	-10.37	-10.40	-2.72	699518.36	382873.71	32°03'03.597"N	103°41'21.710"W	0.71
1200.00	1.400	161.000	1199.89	-12.61	-12.63	-2.34	699518.74	382871.48	32°03'03.575"N	103°41'21.706"W	0.49
1300.00	1.420	149.030	1299.86	-14.84	-14.85	-1.31	699519.77	382869.26	32°03'03.553"N	103°41'21.694"W	0.29
1400.00	1.300	148.110	1399.84	-16.87	-16.88	-0.07	699521.01	382867.24	32°03'03.532"N	103°41'21.680"W	0.12
1500.00	1.110	144.700	1499.81	-18.64	-18.63	1.09	699522.17	382865.48	32°03'03.515"N	103°41'21.667"W	0.20
1600.00	0.860	198.820	1599.80	-20.14	-20.13	1.41	699522.49	382863.98	32°03'03.500"N	103°41'21.663"W	0.92
1700.00	1.810	210.400	1699.77	-22.20	-22.20	0.37	699521.45	382861.91	32°03'03.480"N	103°41'21.675"W	0.98
1800.00	1.830	205.250	1799.72	-25.00	-25.01	-1.11	699519.97	382859.10	32°03'03.452"N	103°41'21.693"W	0.16
1900.00	2.090	196.230	1899.66	-28.18	-28.20	-2.30	699518.78	382855.91	32°03'03.421"N	103°41'21.707"W	0.40
2000.00	2.040	199.100	1999.60	-31.61	-31.64	-3.40	699517.68	382852.47	32°03'03.387"N	103°41'21.720"W	0.11
2100.00	1.860	191.470	2099.54	-34.87	-34.91	-4.30	699516.78	382849.20	32°03'03.354"N	103°41'21.730"W	0.32
2200.00	1.840	189.970	2199.49	-38.04	-38.08	-4.90	699516.18	382846.03	32°03'03.323"N	103°41'21.738"W	0.05
2300.00	2.040	190.610	2299.43	-41.36	-41.41	-5.51	699515.57	382842.70	32°03'03.290"N	103°41'21.745"W	0.20
2400.00	1.870	193.120	2399.37	-44.69	-44.75	-6.21	699514.87	382839.36	32°03'03.257"N	103°41'21.753"W	0.19
2500.00	1.520	199.860	2499.33	-47.52	-47.59	-7.03	699514.05	382836.53	32°03'03.229"N	103°41'21.763"W	0.40
2600.00	1.110	200.130	2599.30	-49.67	-49.74	-7.81	699513.27	382834.37	32°03'03.208"N	103°41'21.772"W	0.41
2700.00	0.990	203.560	2699.29	-51.37	-51.44	-8.49	699512.59	382832.67	32°03'03.191"N	103°41'21.780"W	0.14
2800.00	1.030	206.530	2799.27	-52.96	-53.04	-9.24	699511.84	382831.07	32°03'03.175"N	103°41'21.789"W	0.07
2900.00	0.820	199.080	2899.26	-54.43	-54.52	-9.87	699511.21	382829.59	32°03'03.161"N	103°41'21.796"W	0.24
3000.00	0.810	196.520	2999.25	-55.78	-55.87	-10.31	699510.77	382828.24	32°03'03.147"N	103°41'21.802"W	0.04
3100.00	0.700	155.460	3099.24	-57.02	-57.11	-10.25	699510.83	382827.00	32°03'03.135"N	103°41'21.801"W	0.54
3200.00	0.580	110.630	3199.23	-57.76	-57.84	-9.53	699511.55	382826.27	32°03'03.128"N	103°41'21.793"W	0.50
3300.00	1.370	67.130	3299.22	-57.48	-57.56	-7.95	699513.13	382826.56	32°03'03.130"N	103°41'21.774"W	1.03
3400.00	1.410	65.560	3399.19	-56.53	-56.58	-5.73	699515.35	382827.53	32°03'03.140"N	103°41'21.748"W	0.06
3500.00	1.280	64.650	3499.16	-55.56	-55.59	-3.60	699517.48	382828.52	32°03'03.150"N	103°41'21.724"W	0.13
3600.00	1.290	71.530	3599.14	-54.74	-54.76	-1.52	699519.56	382829.35	32°03'03.158"N	103°41'21.699"W	0.15
3700.00	1.910	97.180	3699.10	-54.62	-54.61	1.20	699522.28	382829.50	32°03'03.159"N	103°41'21.668"W	0.93
3800.00	2.770	109.230	3799.02	-55.66	-55.62	5.13	699526.21	382828.50	32°03'03.149"N	103°41'21.622"W	0.99
3900.00	2.820	110.410	3898.90	-57.35	-57.27	9.72	699530.80	382826.84	32°03'03.132"N	103°41'21.569"W	0.08
4000.00	3.490	113.750	3998.74	-59.48	-59.35	14.81	699535.89	382824.76	32°03'03.111"N	103°41'21.510"W	0.69
4100.00	3.750	118.740	4098.54	-62.33	-62.15	20.46	699541.54	382821.96	32°03'03.083"N	103°41'21.444"W	0.41
4200.00	3.500	119.430	4198.34	-65.45	-65.22	25.99	699547.07	382818.89	32°03'03.053"N	103°41'21.380"W	0.25
4300.00	2.730	122.110	4298.20	-68.25	-67.99	30.67	699551.74	382816.12	32°03'03.025"N	103°41'21.326"W	0.78
4400.00	2.250	115.310	4398.10	-70.39	-70.09	34.46	699555.54	382814.02	32°03'03.004"N	103°41'21.282"W	0.56

Actual Wellpath Report

Mewbourne Oil Company

No. 1H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Red West) Sec 8, T26S, R32E	Wellbore	No. 1H AWB
Facility	Red Hills West 8 Fed Com No. 1H	Sidetrack from	No. 1 AWB at 8300.00 MD

WELLPATH DATA (241 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]
4500.00	2.040	117.500	4498.03	-72.08	-71.76	37.81	699558.89	382812.36	32°03'02.987"N	103°41'21.244"W	0.23
4600.00	1.820	117.380	4597.97	-73.66	-73.31	40.80	699561.88	382810.81	32°03'02.972"N	103°41'21.209"W	0.22
4700.00	1.580	115.640	4697.93	-75.01	-74.63	43.45	699564.53	382809.48	32°03'02.958"N	103°41'21.178"W	0.25
4800.00	1.440	118.790	4797.90	-76.23	-75.84	45.80	699566.87	382808.28	32°03'02.946"N	103°41'21.151"W	0.16
4900.00	1.170	120.830	4897.87	-77.37	-76.96	47.77	699568.85	382807.15	32°03'02.935"N	103°41'21.128"W	0.27
5000.00	1.170	121.950	4997.85	-78.45	-78.03	49.52	699570.60	382806.09	32°03'02.924"N	103°41'21.108"W	0.02
5100.00	1.150	128.820	5097.83	-79.64	-79.20	51.17	699572.24	382804.92	32°03'02.913"N	103°41'21.089"W	0.14
5200.00	1.010	128.180	5197.81	-80.82	-80.37	52.64	699573.72	382803.74	32°03'02.901"N	103°41'21.072"W	0.14
5300.00	0.950	136.740	5297.80	-81.98	-81.52	53.90	699574.98	382802.59	32°03'02.890"N	103°41'21.057"W	0.16
5400.00	0.680	152.600	5397.79	-83.12	-82.65	54.74	699575.82	382801.46	32°03'02.878"N	103°41'21.048"W	0.35
5500.00	0.690	166.600	5497.78	-84.24	-83.76	55.16	699576.23	382800.35	32°03'02.867"N	103°41'21.043"W	0.17
5600.00	0.590	186.720	5597.77	-85.33	-84.86	55.23	699576.31	382799.25	32°03'02.856"N	103°41'21.042"W	0.24
5700.00	0.590	196.580	5697.77	-86.34	-85.86	55.03	699576.10	382798.25	32°03'02.847"N	103°41'21.045"W	0.10
5800.00	0.580	197.020	5797.76	-87.31	-86.84	54.73	699575.81	382797.27	32°03'02.837"N	103°41'21.048"W	0.01
5900.00	0.530	194.870	5897.76	-88.24	-87.77	54.47	699575.54	382796.34	32°03'02.828"N	103°41'21.051"W	0.05
6000.00	0.550	193.600	5997.75	-89.15	-88.69	54.23	699575.31	382795.43	32°03'02.819"N	103°41'21.054"W	0.02
6100.00	0.540	193.920	6097.75	-90.07	-89.61	54.01	699575.09	382794.50	32°03'02.810"N	103°41'21.057"W	0.01
6200.00	0.560	185.710	6197.74	-91.02	-90.55	53.85	699574.92	382793.56	32°03'02.800"N	103°41'21.059"W	0.08
6300.00	0.590	195.590	6297.74	-92.00	-91.54	53.66	699574.74	382792.58	32°03'02.791"N	103°41'21.061"W	0.10
6400.00	0.690	214.630	6397.73	-92.98	-92.53	53.18	699574.26	382791.59	32°03'02.781"N	103°41'21.066"W	0.23
6500.00	0.710	207.310	6497.73	-94.02	-93.57	52.55	699573.63	382790.54	32°03'02.770"N	103°41'21.074"W	0.09
6600.00	0.760	214.930	6597.72	-95.11	-94.67	51.89	699572.97	382789.45	32°03'02.760"N	103°41'21.082"W	0.11
6700.00	1.020	206.670	6697.71	-96.45	-96.01	51.11	699572.19	382788.11	32°03'02.746"N	103°41'21.091"W	0.29
6800.00	1.150	215.370	6797.69	-98.05	-97.62	50.13	699571.21	382786.49	32°03'02.731"N	103°41'21.102"W	0.21
6900.00	1.100	210.440	6897.67	-99.69	-99.27	49.06	699570.14	382784.85	32°03'02.714"N	103°41'21.115"W	0.11
7000.00	1.200	213.300	6997.65	-101.38	-100.97	48.00	699569.08	382783.15	32°03'02.698"N	103°41'21.127"W	0.12
7100.00	1.260	220.060	7097.63	-103.09	-102.69	46.72	699567.79	382781.43	32°03'02.681"N	103°41'21.142"W	0.16
7200.00	1.260	225.850	7197.60	-104.68	-104.29	45.22	699566.30	382779.82	32°03'02.665"N	103°41'21.160"W	0.13
7300.00	1.290	227.780	7297.58	-106.19	-105.82	43.60	699564.68	382778.30	32°03'02.650"N	103°41'21.179"W	0.05
7400.00	1.530	224.240	7397.55	-107.89	-107.53	41.83	699562.91	382776.59	32°03'02.633"N	103°41'21.199"W	0.26
7500.00	1.530	217.560	7497.51	-109.89	-109.54	40.09	699561.17	382774.57	32°03'02.613"N	103°41'21.220"W	0.18
7600.00	1.600	215.970	7597.47	-112.06	-111.73	38.45	699559.53	382772.38	32°03'02.592"N	103°41'21.239"W	0.08
7700.00	1.660	213.440	7697.43	-114.38	-114.07	36.84	699557.91	382770.05	32°03'02.569"N	103°41'21.258"W	0.09
7800.00	1.560	213.030	7797.39	-116.72	-116.42	35.30	699556.37	382767.70	32°03'02.545"N	103°41'21.276"W	0.10
7900.00	1.700	215.720	7897.35	-119.05	-118.77	33.69	699554.77	382765.35	32°03'02.522"N	103°41'21.295"W	0.16
8000.00	1.720	215.790	7997.31	-121.46	-121.19	31.94	699553.02	382762.93	32°03'02.498"N	103°41'21.315"W	0.02
8100.00	1.650	214.870	8097.26	-123.84	-123.59	30.24	699551.32	382760.53	32°03'02.475"N	103°41'21.335"W	0.08
8200.00	1.520	218.030	8197.23	-126.05	-125.81	28.60	699549.68	382758.30	32°03'02.453"N	103°41'21.354"W	0.16
8300.00	1.510	217.180	8297.19	-128.13	-127.91	26.99	699548.07	382756.21	32°03'02.432"N	103°41'21.373"W	0.02
8320.00	1.600	221.700	8317.18	-128.55	-128.32	26.64	699547.72	382755.79	32°03'02.428"N	103°41'21.377"W	0.76
8352.00	1.300	323.300	8349.18	-128.59	-128.37	26.13	699547.21	382755.75	32°03'02.428"N	103°41'21.383"W	7.05
8383.00	3.600	331.400	8380.15	-127.45	-127.23	25.45	699546.53	382756.89	32°03'02.439"N	103°41'21.391"W	7.48
8415.00	6.700	342.100	8412.02	-124.78	-124.57	24.40	699545.48	382759.54	32°03'02.465"N	103°41'21.403"W	10.10
8446.00	9.700	341.200	8442.69	-120.57	-120.38	23.00	699544.08	382763.74	32°03'02.507"N	103°41'21.419"W	9.69
8478.00	12.400	341.200	8474.10	-114.75	-114.57	21.03	699542.10	382769.54	32°03'02.564"N	103°41'21.442"W	8.44

Actual Wellpath Report

MOC Mewbourne Oil Company

No. 1H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Red West) Sec 8, T26S, R32E	Wellbore	No. 1H AWB
Facility	Red Hills West 8 Fed Com No. 1H	Sidetrack from	No. 1 AWB at 8300.00 MD

WELLPATH DATA (241 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]
8510.00	15.200	341.600	8505.17	-107.49	-107.34	18.59	699539.67	382776.78	32°03'02.636"N	103°41'21.469"W	8.76
8541.00	17.100	343.400	8534.95	-99.25	-99.11	16.01	699537.09	382785.00	32°03'02.718"N	103°41'21.499"W	6.34
8573.00	19.700	344.900	8565.31	-89.51	-89.39	13.26	699534.34	382794.72	32°03'02.814"N	103°41'21.530"W	8.26
8605.00	22.400	344.100	8595.17	-78.41	-78.32	10.18	699531.26	382805.79	32°03'02.924"N	103°41'21.565"W	8.48
8636.00	25.200	343.700	8623.53	-66.36	-66.30	6.71	699527.79	382817.81	32°03'03.043"N	103°41'21.605"W	9.05
8668.00	28.100	343.000	8652.13	-52.58	-52.56	2.60	699523.68	382831.56	32°03'03.179"N	103°41'21.651"W	9.12
8700.00	31.000	342.300	8679.96	-37.48	-37.50	-2.11	699518.97	382846.62	32°03'03.329"N	103°41'21.705"W	9.13
8731.00	34.200	340.800	8706.08	-21.59	-21.66	-7.41	699513.67	382862.45	32°03'03.486"N	103°41'21.765"W	10.65
8763.00	36.700	339.600	8732.14	-4.08	-4.20	-13.70	699507.38	382879.91	32°03'03.659"N	103°41'21.837"W	8.11
8795.00	39.600	339.600	8757.31	14.50	14.33	-20.59	699500.49	382898.44	32°03'03.842"N	103°41'21.916"W	9.06
8825.00	42.900	339.300	8779.86	33.08	32.84	-27.53	699493.55	382916.95	32°03'04.026"N	103°41'21.996"W	11.02
8857.00	46.500	339.600	8802.60	54.22	53.92	-35.43	699485.65	382938.03	32°03'04.235"N	103°41'22.086"W	11.27
8888.00	50.300	340.200	8823.18	76.06	75.68	-43.39	699477.69	382959.79	32°03'04.451"N	103°41'22.177"W	12.34
8920.00	53.600	341.500	8842.90	99.93	99.49	-51.65	699469.43	382983.59	32°03'04.687"N	103°41'22.271"W	10.80
8951.00	56.400	343.400	8860.68	124.21	123.70	-59.30	699461.78	383007.80	32°03'04.927"N	103°41'22.358"W	10.33
8983.00	59.800	345.500	8877.59	150.44	149.87	-66.57	699454.51	383033.97	32°03'05.186"N	103°41'22.441"W	12.00
9015.00	63.300	346.700	8892.83	177.80	177.17	-73.33	699447.76	383061.28	32°03'05.457"N	103°41'22.518"W	11.42
9046.00	65.900	348.400	8906.13	205.19	204.52	-79.36	699441.73	383088.62	32°03'05.728"N	103°41'22.586"W	9.74
9078.00	69.000	350.500	8918.40	234.29	233.57	-84.76	699436.32	383117.66	32°03'06.016"N	103°41'22.647"W	11.43
9110.00	72.600	352.100	8928.92	264.19	263.43	-89.33	699431.76	383147.53	32°03'06.312"N	103°41'22.697"W	12.20
9141.00	76.800	353.300	8937.10	293.88	293.08	-93.12	699427.96	383177.18	32°03'06.605"N	103°41'22.740"W	14.05
9173.00	80.200	355.800	8943.48	325.11	324.29	-96.10	699424.99	383208.39	32°03'06.914"N	103°41'22.772"W	13.10
9205.00	84.400	358.300	8947.77	356.78	355.95	-97.72	699423.36	383240.05	32°03'07.228"N	103°41'22.789"W	15.24
9236.00	86.400	359.600	8950.25	387.68	386.85	-98.29	699422.79	383270.94	32°03'07.533"N	103°41'22.793"W	7.69
9268.00	86.800	359.700	8952.15	419.62	418.79	-98.49	699422.60	383302.88	32°03'07.849"N	103°41'22.793"W	1.29
9300.00	89.200	359.700	8953.27	451.60	450.77	-98.65	699422.43	383334.86	32°03'08.166"N	103°41'22.793"W	7.50
9346.00	90.000	0.500	8953.59	497.60	496.76	-98.57	699422.51	383380.85	32°03'08.621"N	103°41'22.789"W	2.46
9378.00	90.500	0.500	8953.45	529.59	528.76	-98.29	699422.79	383412.85	32°03'08.938"N	103°41'22.783"W	1.56
9409.00	90.700	0.700	8953.12	560.59	559.76	-97.97	699423.12	383443.84	32°03'09.244"N	103°41'22.777"W	0.91
9441.00	90.300	1.100	8952.84	592.57	591.75	-97.47	699423.62	383475.84	32°03'09.561"N	103°41'22.769"W	1.77
9472.00	89.900	1.900	8952.79	623.56	622.74	-96.65	699424.43	383506.82	32°03'09.868"N	103°41'22.758"W	2.89
9504.00	89.500	1.900	8952.96	655.53	654.73	-95.59	699425.49	383538.80	32°03'10.184"N	103°41'22.743"W	1.25
9568.00	89.500	2.200	8953.52	719.46	718.68	-93.30	699427.78	383602.76	32°03'10.817"N	103°41'22.712"W	0.47
9631.00	89.100	2.500	8954.29	782.38	781.62	-90.72	699430.36	383665.70	32°03'11.439"N	103°41'22.678"W	0.79
9693.00	88.200	1.700	8955.75	844.30	843.56	-88.45	699432.63	383727.63	32°03'12.052"N	103°41'22.647"W	1.94
9756.00	89.000	1.800	8957.29	907.23	906.52	-86.53	699434.56	383790.58	32°03'12.675"N	103°41'22.620"W	1.28
9819.00	88.300	2.100	8958.77	970.15	969.46	-84.38	699436.70	383853.53	32°03'13.298"N	103°41'22.591"W	1.21
9882.00	88.200	1.200	8960.69	1033.08	1032.40	-82.57	699438.51	383916.47	32°03'13.921"N	103°41'22.566"W	1.44
9946.00	88.500	0.600	8962.54	1097.03	1096.37	-81.57	699439.52	383980.43	32°03'14.553"N	103°41'22.550"W	1.05
9980.00	89.100	0.000	8963.25	1131.02	1130.36	-81.39	699439.70	384014.42	32°03'14.890"N	103°41'22.545"W	2.50
10011.00	90.200	0.200	8963.44	1162.02	1161.36	-81.33	699439.75	384045.42	32°03'15.197"N	103°41'22.542"W	3.61
10043.00	89.100	0.700	8963.63	1194.01	1193.36	-81.08	699440.00	384077.41	32°03'15.513"N	103°41'22.537"W	3.78
10075.00	88.200	359.700	8964.39	1226.00	1225.35	-80.97	699440.11	384109.40	32°03'15.830"N	103°41'22.534"W	4.20
10106.00	89.300	359.600	8965.06	1256.99	1256.34	-81.16	699439.92	384140.39	32°03'16.136"N	103°41'22.534"W	3.56
10158.00	90.800	359.900	8965.04	1288.99	1288.34	-81.30	699439.78	384172.39	32°03'16.453"N	103°41'22.533"W	4.78

Actual Wellpath Report

Mewbourne Oil Company

No. 1H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Red West) Sec 8, T26S, R32E	Wellbore	No. 1H AWB
Facility	Red Hills West 8 Fed Com No. 1H	Sidetrack from	No. 1 AWB at 8300.00 MD

WELLPATH DATA (241 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]
10170.00	91.100	0.100	8964.51	1320.99	1320.33	-81.30	699439.78	384204.38	32°03'16.770"N	103°41'22.531"W	1.13
10200.00	91.600	359.200	8963.80	1350.98	1350.33	-81.48	699439.60	384234.37	32°03'17.067"N	103°41'22.531"W	3.43
10232.00	91.800	359.100	8962.85	1382.96	1382.31	-81.96	699439.13	384266.35	32°03'17.383"N	103°41'22.534"W	0.70
10263.00	93.100	358.000	8961.52	1413.93	1413.27	-82.74	699438.34	384297.31	32°03'17.689"N	103°41'22.541"W	5.49
10295.00	95.400	357.200	8959.15	1445.82	1445.15	-84.08	699437.01	384329.19	32°03'18.005"N	103°41'22.555"W	7.61
10327.00	96.800	358.100	8955.75	1477.62	1476.94	-85.38	699435.70	384360.98	32°03'18.320"N	103°41'22.568"W	5.19
10359.00	97.300	359.500	8951.82	1509.38	1508.69	-86.05	699435.04	384392.73	32°03'18.634"N	103°41'22.573"W	4.61
10393.00	95.700	359.000	8947.98	1543.16	1542.47	-86.49	699434.59	384426.51	32°03'18.968"N	103°41'22.576"W	4.93
10440.00	94.500	359.800	8943.80	1589.97	1589.28	-86.98	699434.10	384473.31	32°03'19.431"N	103°41'22.578"W	3.06
10455.00	93.600	0.300	8942.74	1604.93	1604.24	-86.97	699434.12	384488.27	32°03'19.579"N	103°41'22.577"W	6.86
10486.00	93.200	0.400	8940.90	1635.87	1635.19	-86.78	699434.31	384519.22	32°03'19.886"N	103°41'22.573"W	1.33
10518.00	93.000	0.400	8939.17	1667.82	1667.14	-86.55	699434.53	384551.17	32°03'20.202"N	103°41'22.568"W	0.62
10550.00	93.200	1.000	8937.44	1699.77	1699.09	-86.16	699434.92	384583.12	32°03'20.518"N	103°41'22.561"W	1.97
10582.00	92.000	3.000	8935.99	1731.70	1731.03	-85.05	699436.04	384615.06	32°03'20.834"N	103°41'22.546"W	7.28
10615.00	88.000	3.500	8935.99	1764.63	1763.97	-83.18	699437.91	384648.00	32°03'21.160"N	103°41'22.522"W	12.22
10646.00	84.700	3.200	8937.96	1795.49	1794.85	-81.37	699439.71	384678.88	32°03'21.465"N	103°41'22.499"W	10.69
10677.00	84.600	2.700	8940.85	1826.30	1825.68	-79.78	699441.30	384709.70	32°03'21.770"N	103°41'22.478"W	1.64
10709.00	84.800	1.700	8943.81	1858.13	1857.52	-78.56	699442.53	384741.54	32°03'22.085"N	103°41'22.462"W	3.17
10740.00	84.700	1.200	8946.64	1888.98	1888.38	-77.78	699443.31	384772.40	32°03'22.391"N	103°41'22.451"W	1.64
10772.00	86.000	0.400	8949.24	1920.86	1920.27	-77.33	699443.75	384804.29	32°03'22.706"N	103°41'22.443"W	4.77
10804.00	88.100	359.700	8950.88	1952.82	1952.22	-77.30	699443.78	384836.24	32°03'23.022"N	103°41'22.441"W	6.92
10835.00	88.500	359.900	8951.80	1983.80	1983.21	-77.41	699443.67	384867.23	32°03'23.329"N	103°41'22.440"W	1.44
10867.00	88.700	0.100	8952.59	2015.79	2015.20	-77.41	699443.67	384899.21	32°03'23.646"N	103°41'22.438"W	0.88
10899.00	88.500	0.100	8953.37	2047.78	2047.19	-77.36	699443.73	384931.20	32°03'23.962"N	103°41'22.435"W	0.62
10931.00	88.600	0.400	8954.18	2079.77	2079.18	-77.22	699443.87	384963.19	32°03'24.279"N	103°41'22.431"W	0.99
10963.00	88.700	0.700	8954.93	2111.76	2111.17	-76.91	699444.17	384995.18	32°03'24.595"N	103°41'22.425"W	0.99
10995.00	89.000	1.000	8955.57	2143.74	2143.16	-76.44	699444.65	385027.17	32°03'24.912"N	103°41'22.417"W	1.33
11026.00	89.100	1.100	8956.09	2174.72	2174.15	-75.87	699445.22	385058.16	32°03'25.218"N	103°41'22.409"W	0.46
11058.00	88.600	1.600	8956.73	2206.70	2206.13	-75.11	699445.97	385090.14	32°03'25.535"N	103°41'22.398"W	2.21
11090.00	88.500	1.500	8957.54	2238.67	2238.11	-74.25	699446.84	385122.12	32°03'25.851"N	103°41'22.385"W	0.44
11122.00	88.700	1.000	8958.32	2270.65	2270.09	-73.55	699447.53	385154.10	32°03'26.168"N	103°41'22.375"W	1.68
11154.00	89.400	0.500	8958.85	2302.63	2302.09	-73.13	699447.95	385186.09	32°03'26.484"N	103°41'22.368"W	2.69
11186.00	88.200	0.100	8959.52	2334.62	2334.08	-72.96	699448.12	385218.08	32°03'26.801"N	103°41'22.364"W	3.95
11217.00	87.900	0.400	8960.58	2365.60	2365.06	-72.83	699448.25	385249.06	32°03'27.107"N	103°41'22.360"W	1.37
11249.00	89.900	0.500	8961.19	2397.59	2397.05	-72.58	699448.51	385281.05	32°03'27.424"N	103°41'22.355"W	6.26
11281.00	89.700	0.500	8961.30	2429.59	2429.05	-72.30	699448.79	385313.05	32°03'27.741"N	103°41'22.350"W	0.62
11313.00	90.000	0.800	8961.39	2461.58	2461.05	-71.94	699449.15	385345.04	32°03'28.057"N	103°41'22.343"W	1.33
11345.00	91.600	0.400	8960.94	2493.57	2493.04	-71.60	699449.48	385377.03	32°03'28.374"N	103°41'22.337"W	5.15
11377.00	91.500	0.500	8960.07	2525.55	2525.03	-71.35	699449.73	385409.02	32°03'28.690"N	103°41'22.332"W	0.44
11408.00	91.800	0.700	8959.18	2556.53	2556.02	-71.02	699450.06	385440.00	32°03'28.997"N	103°41'22.326"W	1.16
11440.00	91.300	0.800	8958.32	2588.51	2588.00	-70.61	699450.48	385471.99	32°03'29.313"N	103°41'22.319"W	1.59
11472.00	90.900	1.200	8957.70	2620.50	2619.99	-70.05	699451.04	385503.98	32°03'29.630"N	103°41'22.310"W	1.77
11503.00	90.700	0.800	8957.27	2651.48	2650.98	-69.51	699451.58	385534.97	32°03'29.937"N	103°41'22.302"W	1.44
11535.00	90.700	1.600	8956.88	2683.47	2682.97	-68.84	699452.25	385566.96	32°03'30.253"N	103°41'22.292"W	2.50
11567.00	91.200	1.700	8956.35	2715.44	2714.95	-67.92	699453.17	385598.94	32°03'30.569"N	103°41'22.279"W	1.59

Actual Wellpath Report

Mewbourne Oil Company

No. 1H AWP

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**BAKER
HUGHES**

INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Red West) Sec 8, T26S, R32E	Wellbore	No. 1H AWB
Facility	Red Hills West 8 Fed Com No. 1H	Sidetrack from	No. 1 AWB at 8300.00 MD

WELLPATH DATA (241 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]
11599.00	91.300	2.400	8955.65	2747.40	2746.93	-66.77	699454.31	385630.91	32°03'30.886"N	103°41'22.263"W	2.21
11630.00	90.300	3.100	8955.22	2778.35	2777.89	-65.28	699455.80	385661.87	32°03'31.192"N	103°41'22.244"W	3.94
11662.00	91.600	3.800	8954.69	2810.27	2809.82	-63.36	699457.72	385693.80	32°03'31.508"N	103°41'22.219"W	4.61
11694.00	91.500	3.400	8953.82	2842.17	2841.75	-61.35	699459.73	385725.72	32°03'31.824"N	103°41'22.194"W	1.29
11726.00	91.200	1.900	8953.07	2874.12	2873.71	-59.87	699461.21	385757.68	32°03'32.140"N	103°41'22.174"W	4.78
11757.00	90.900	1.800	8952.50	2905.08	2904.68	-58.87	699462.21	385788.66	32°03'32.446"N	103°41'22.161"W	1.02
11789.00	91.200	2.800	8951.91	2937.04	2936.65	-57.59	699463.50	385820.62	32°03'32.763"N	103°41'22.143"W	3.26
11820.00	92.700	4.000	8950.86	2967.95	2967.58	-55.75	699465.33	385851.55	32°03'33.069"N	103°41'22.120"W	6.20
11852.00	90.800	4.700	8949.88	2999.82	2999.47	-53.32	699467.76	385883.44	32°03'33.384"N	103°41'22.090"W	6.33
11884.00	91.100	4.100	8949.35	3031.70	3031.37	-50.87	699470.21	385915.34	32°03'33.700"N	103°41'22.059"W	2.10
11915.00	91.500	3.400	8948.65	3062.60	3062.30	-48.84	699472.24	385946.26	32°03'34.005"N	103°41'22.033"W	2.60
11947.00	89.000	4.100	8948.51	3094.51	3094.22	-46.75	699474.33	385978.19	32°03'34.321"N	103°41'22.007"W	8.11
11979.00	88.800	3.900	8949.12	3126.41	3126.14	-44.52	699476.57	386010.10	32°03'34.637"N	103°41'21.978"W	0.88
12011.00	87.300	3.600	8950.21	3158.30	3158.05	-42.42	699478.66	386042.01	32°03'34.953"N	103°41'21.952"W	4.78
12043.00	87.300	3.500	8951.72	3190.19	3189.96	-40.45	699480.64	386073.91	32°03'35.268"N	103°41'21.927"W	0.31
12074.00	87.900	3.600	8953.02	3221.08	3220.87	-38.53	699482.55	386104.83	32°03'35.574"N	103°41'21.902"W	1.96
12106.00	87.900	3.600	8954.19	3252.98	3252.78	-36.52	699484.56	386136.74	32°03'35.890"N	103°41'21.877"W	0.00
12138.00	86.500	2.300	8955.75	3284.88	3284.70	-34.87	699486.21	386168.66	32°03'36.205"N	103°41'21.855"W	5.97
12170.00	85.000	0.700	8958.12	3316.77	3316.60	-34.04	699487.04	386200.55	32°03'36.521"N	103°41'21.844"W	6.84
12201.00	86.000	358.300	8960.56	3347.67	3347.50	-34.31	699486.77	386231.45	32°03'36.827"N	103°41'21.845"W	8.36
12232.00	88.100	357.100	8962.15	3378.61	3378.43	-35.55	699485.53	386262.38	32°03'37.133"N	103°41'21.857"W	7.80
12264.00	89.500	356.400	8962.82	3410.57	3410.37	-37.37	699483.72	386294.32	32°03'37.449"N	103°41'21.876"W	4.89
12296.00	90.500	356.100	8962.82	3442.52	3442.31	-39.46	699481.62	386326.25	32°03'37.765"N	103°41'21.898"W	3.26
12328.00	91.000	356.200	8962.40	3474.46	3474.23	-41.61	699479.47	386358.18	32°03'38.081"N	103°41'21.921"W	1.59
12360.00	92.900	356.200	8961.31	3506.39	3506.14	-43.73	699477.36	386390.08	32°03'38.397"N	103°41'21.943"W	5.94
12391.00	93.500	356.800	8959.58	3537.30	3537.03	-45.62	699475.47	386420.98	32°03'38.703"N	103°41'21.963"W	2.74
12423.00	93.500	356.800	8957.63	3569.20	3568.92	-47.40	699473.68	386452.87	32°03'39.019"N	103°41'21.981"W	0.00
12455.00	93.800	357.500	8955.59	3601.11	3600.82	-48.99	699472.10	386484.76	32°03'39.334"N	103°41'21.998"W	2.38
12487.00	93.800	357.400	8953.47	3633.02	3632.72	-50.41	699470.67	386516.66	32°03'39.650"N	103°41'22.012"W	0.31
12519.00	92.500	357.100	8951.71	3664.94	3664.63	-51.94	699469.14	386548.57	32°03'39.966"N	103°41'22.027"W	4.17
12551.00	90.900	356.400	8950.76	3696.89	3696.56	-53.75	699467.33	386580.50	32°03'40.282"N	103°41'22.046"W	5.46
12582.00	90.500	356.400	8950.38	3727.84	3727.50	-55.70	699465.38	386611.43	32°03'40.588"N	103°41'22.067"W	1.29
12614.00	91.100	355.700	8949.94	3759.78	3759.42	-57.90	699463.18	386643.35	32°03'40.904"N	103°41'22.090"W	2.88
12646.00	91.100	355.600	8949.32	3791.70	3791.32	-60.33	699460.75	386675.25	32°03'41.220"N	103°41'22.116"W	0.31
12678.00	91.400	355.600	8948.63	3823.62	3823.22	-62.79	699458.30	386707.15	32°03'41.536"N	103°41'22.142"W	0.94
12709.00	90.700	355.100	8948.06	3854.53	3854.11	-65.30	699455.78	386738.04	32°03'41.842"N	103°41'22.169"W	2.77
12741.00	91.000	355.000	8947.58	3886.43	3885.99	-68.06	699453.02	386769.92	32°03'42.158"N	103°41'22.199"W	0.99
12773.00	91.800	355.000	8946.80	3918.33	3917.86	-70.85	699450.24	386801.78	32°03'42.473"N	103°41'22.230"W	2.50
12804.00	91.400	354.700	8945.94	3949.21	3948.72	-73.63	699447.45	386832.65	32°03'42.779"N	103°41'22.260"W	1.61
12836.00	90.800	354.600	8945.32	3981.09	3980.58	-76.61	699444.47	386864.50	32°03'43.094"N	103°41'22.292"W	1.90
12868.00	91.500	355.300	8944.68	4012.98	4012.45	-79.43	699441.66	386896.37	32°03'43.410"N	103°41'22.323"W	3.09
12900.00	91.800	355.400	8943.76	4044.89	4044.33	-82.02	699439.06	386928.25	32°03'43.725"N	103°41'22.351"W	0.99
12932.00	91.800	355.300	8942.75	4076.79	4076.21	-84.61	699436.47	386960.12	32°03'44.041"N	103°41'22.379"W	0.31
12964.00	91.500	355.100	8941.83	4108.68	4108.08	-87.29	699433.79	386992.00	32°03'44.356"N	103°41'22.407"W	1.13
12995.00	91.800	352.000	8940.94	4139.50	4138.87	-90.77	699430.31	387022.78	32°03'44.661"N	103°41'22.446"W	10.04

Actual Wellpath Report

Mewbourne Oil Company

No. 1H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Red West) Sec 8, T26S, R32E	Wellbore	No. 1H AWB
Facility	Red Hills West 8 Fed Com No. 1H	Sidetrack from	No. 1 AWB at 8300.00 MD

WELLPATH DATA (241 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]
13027.00	91.500	350.900	8940.02	4171.17	4170.50	-95.53	699425.56	387054.41	32°03'44.975"N	103°41'22.499"W	3.56
13059.00	91.700	351.100	8939.12	4202.80	4202.09	-100.53	699420.55	387086.00	32°03'45.287"N	103°41'22.555"W	0.88
13091.00	91.500	351.700	8938.23	4234.47	4233.72	-105.31	699415.77	387117.63	32°03'45.601"N	103°41'22.608"W	1.98
13122.00	91.500	351.600	8937.42	4265.17	4264.38	-109.81	699411.27	387148.29	32°03'45.904"N	103°41'22.658"W	0.32
13154.00	91.500	350.900	8936.58	4296.83	4296.00	-114.68	699406.41	387179.90	32°03'46.218"N	103°41'22.713"W	2.19
13186.00	91.200	351.600	8935.83	4328.49	4327.62	-119.55	699401.54	387211.52	32°03'46.531"N	103°41'22.767"W	2.38
13218.00	91.500	351.300	8935.07	4360.16	4359.25	-124.30	699396.78	387243.16	32°03'46.844"N	103°41'22.820"W	1.33
13249.00	91.500	351.600	8934.26	4390.85	4389.90	-128.91	699392.18	387273.80	32°03'47.148"N	103°41'22.872"W	0.97
13281.00	91.300	351.800	8933.48	4422.54	4421.55	-133.53	699387.56	387305.45	32°03'47.461"N	103°41'22.923"W	0.88
13313.00	92.600	352.000	8932.39	4454.24	4453.21	-138.03	699383.05	387337.11	32°03'47.775"N	103°41'22.973"W	4.11
13344.00	91.500	352.700	8931.28	4484.98	4483.92	-142.16	699378.93	387367.82	32°03'48.079"N	103°41'23.019"W	4.21
13376.00	89.500	353.600	8931.00	4516.78	4515.69	-145.97	699375.11	387399.58	32°03'48.393"N	103°41'23.061"W	6.85
13408.00	88.800	353.300	8931.48	4548.60	4547.47	-149.62	699371.46	387431.37	32°03'48.708"N	103°41'23.101"W	2.38
13440.00	89.500	353.700	8931.95	4580.42	4579.26	-153.25	699367.84	387463.16	32°03'49.023"N	103°41'23.141"W	2.52
13472.00	89.600	353.600	8932.20	4612.25	4611.07	-156.79	699364.30	387494.96	32°03'49.338"N	103°41'23.180"W	0.44
13513.00	89.600	353.600	8932.49	4653.03	4651.81	-161.36	699359.73	387535.70	32°03'49.741"N	103°41'23.230"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. 1H PBHL		8955.00	4683.31	-40.48	699480.60	387567.20	32°03'50.046"N	103°41'21.824"W	point

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	8300.00	Generic gyro - continuous (Standard)			SDI GYRO (100 - 9475)	No. 1 AWB
8300.00	13513.00	NaviTrak (Standard)			MWD	No. 1H AWB