



Mewbourne Oil Company

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MAY 18 2010

NMOCD ARTESIA



Mewbourne Oil Company

Location Eddy County, NM
Field (Three Palms) Sec 36, T19S, R29E
Facility Three Palms 36 State Com #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	0 00	0 000	270 395	0 00	0 00	0 00	0 00	0 00
Est KOP	7561 00	0 000	270 395	7561 00	0 00	0 00	0 00	0 00
End of Curve	8441 97	88 097	270 395	8133 64	3 82	-553 92	10.00	553 93
No 1H PBHL	12517.88	88 097	270 395	8269 00	31 90	-4627 48	0 00	4627 59

Plot reference wellpath is Prelim_1

True vertical depths are referenced to Patterson 47 on No. 1H SHL (KB)

Measured depths are referenced to Patterson 47 on No. 1H SHL (KB)

Patterson 47 on No. 1H SHL (KB) to Mean Sea Level 3344 feet

Mean Sea Level to Mud line (Facility Three Palms 36 State Com #1H) -3326 feet

Coordinates are in feet referenced to Slot

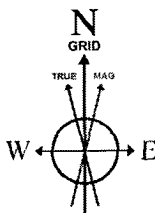
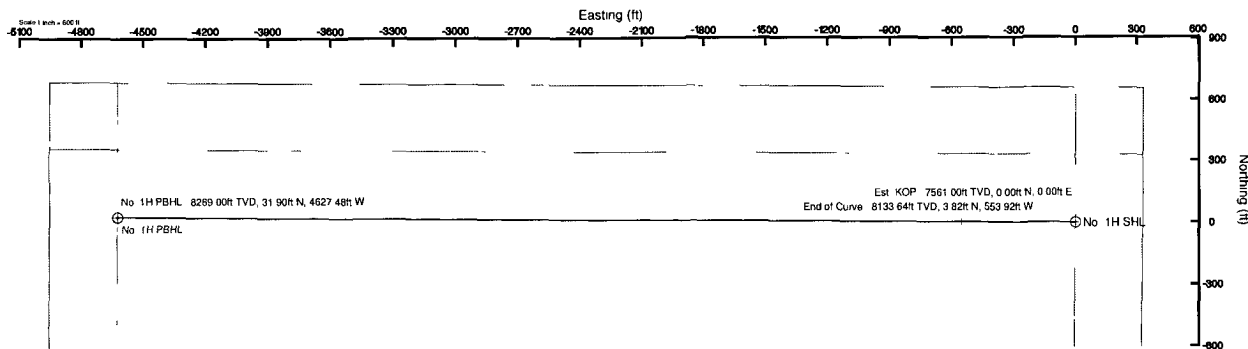
Grid System NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet

North Reference Grid north

Scale True distance

Depths are in feet

Created by Roland Flores on 5/11/2010



BGGM (1945 0 to 2011 0) Dip 60 52° Field 49004 nT

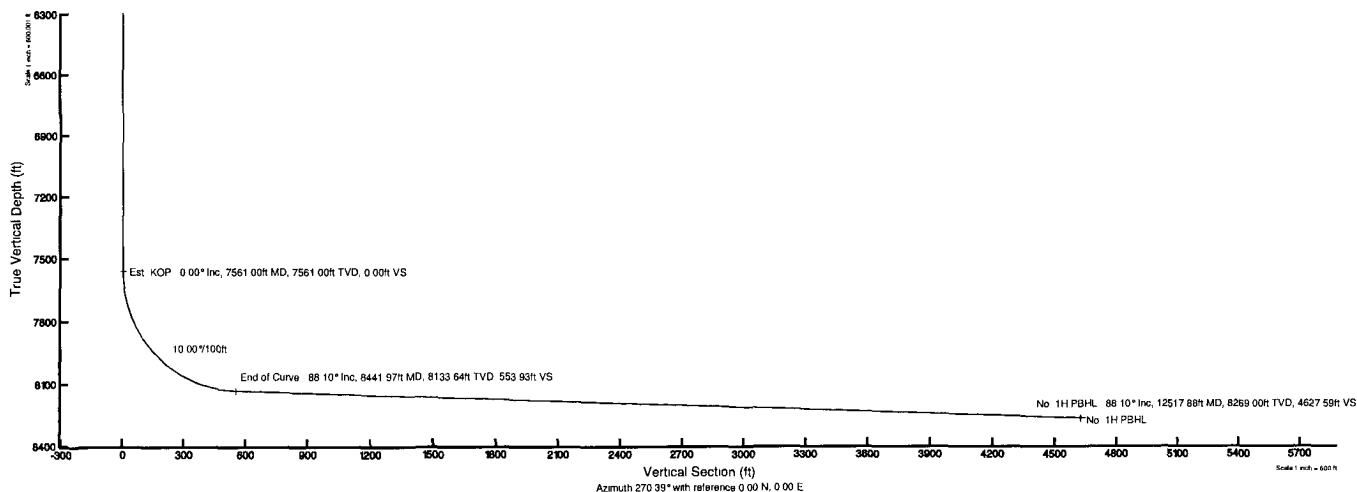
Magnetic North is 8 00 degrees East of True North (at 5/11/2010)

Grid North is 0 17 degrees East of True North

To correct azimuth from True to Grid subtract 0 17 degrees

To correct azimuth from Magnetic to Grid add 7 83 degrees

For example if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7 83 = 97 83



Planned Wellpath Report

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HUGHES

REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Three Palms) Sec 36, T19S, R29E	Wellbore	No. 1H PWB
Facility	Three Palms 36 State Com #1H		

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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	0.99992	Report Generated	5/11/2010 at 10:50:44 AM
Convergence at slot	0.17° East	Database/Source file	WA_Midland/No. 1H_PWB.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	596350.45	590223.07	32°37'20.053"N	104°01'13.400"W
Facility Reference Pt			596350.45	590223.07	32°37'20.053"N	104°01'13.400"W
Field Reference Pt			596350.45	590223.07	32°37'20.053"N	104°01'13.400"W

WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 47 on No. 1H SHL (KB) to Ground Level	18.00ft
Horizontal Reference Pt	Slot	Patterson 47 on No. 1H SHL (KB) to Mean Sea Level	3344.00ft
Vertical Reference Pt	Patterson 47 on No. 1H SHL (KB)	Ground Level to Mud Line (Facility)	0.00ft
MD Reference Pt	Patterson 47 on No. 1H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	270.39°

Planned Wellpath Report

Mewbourne Oil Company

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Three Palms) Sec 36, T19S, R29E	Wellbore	No. 1H PWB
Facility	Three Palms 36 State Com #1H		

WELLPATH DATA (53 stations) † = interpolated/extrapolated station												
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	270.395	0.00	0.00	0.00	0.00	596350.45	590223.07	32°37'20.053"N	104°01'13.400"W	0.00	Tie On
7561.00	0.000	270.395	7561.00	0.00	0.00	0.00	596350.45	590223.07	32°37'20.053"N	104°01'13.400"W	0.00	Est. KOP
7661.00†	10.000	270.395	7660.49	8.70	0.06	-8.70	596341.75	590223.13	32°37'20.054"N	104°01'13.502"W	10.00	
7761.00†	20.000	270.395	7756.96	34.55	0.24	-34.55	596315.90	590223.31	32°37'20.056"N	104°01'13.804"W	10.00	
7861.00†	30.000	270.395	7847.48	76.76	0.53	-76.76	596273.70	590223.60	32°37'20.061"N	104°01'14.298"W	10.00	
7961.00†	40.000	270.395	7929.29	134.05	0.92	-134.04	596216.42	590223.99	32°37'20.066"N	104°01'14.968"W	10.00	
8061.00†	50.000	270.395	7999.91	204.67	1.41	-204.66	596145.80	590224.48	32°37'20.073"N	104°01'15.793"W	10.00	
8161.00†	60.000	270.395	8057.20	286.48	1.97	-286.47	596064.00	590225.04	32°37'20.081"N	104°01'16.750"W	10.00	
8261.00†	70.000	270.395	8099.40	376.99	2.60	-376.99	595973.50	590225.67	32°37'20.090"N	104°01'17.808"W	10.00	
8361.00†	80.000	270.395	8125.25	473.46	3.26	-473.45	595877.04	590226.33	32°37'20.099"N	104°01'18.936"W	10.00	
8441.97	88.097	270.395	8133.64	553.93	3.82	-553.92	595796.58	590226.89	32°37'20.107"N	104°01'19.876"W	10.00	End of Curve
8461.00†	88.097	270.395	8134.27	572.95	3.95	-572.94	595777.56	590227.02	32°37'20.109"N	104°01'20.099"W	0.00	
8561.00†	88.097	270.395	8137.59	672.90	4.64	-672.88	595677.63	590227.71	32°37'20.118"N	104°01'21.267"W	0.00	
8661.00†	88.097	270.395	8140.92	772.84	5.33	-772.82	595577.69	590228.40	32°37'20.128"N	104°01'22.436"W	0.00	
8761.00†	88.097	270.395	8144.24	872.79	6.02	-872.76	595477.76	590229.09	32°37'20.138"N	104°01'23.604"W	0.00	
8861.00†	88.097	270.395	8147.56	972.73	6.71	-972.71	595377.82	590229.77	32°37'20.148"N	104°01'24.773"W	0.00	
8961.00†	88.097	270.395	8150.88	1072.68	7.39	-1072.65	595277.89	590230.46	32°37'20.157"N	104°01'25.941"W	0.00	
9061.00†	88.097	270.395	8154.20	1172.62	8.08	-1172.59	595177.95	590231.15	32°37'20.167"N	104°01'27.110"W	0.00	
9161.00†	88.097	270.395	8157.52	1272.56	8.77	-1272.53	595078.02	590231.84	32°37'20.177"N	104°01'28.278"W	0.00	
9261.00†	88.097	270.395	8160.84	1372.51	9.46	-1372.48	594978.09	590232.53	32°37'20.186"N	104°01'29.447"W	0.00	
9361.00†	88.097	270.395	8164.16	1472.45	10.15	-1472.42	594878.15	590233.22	32°37'20.196"N	104°01'30.615"W	0.00	
9461.00†	88.097	270.395	8167.48	1572.40	10.84	-1572.36	594778.22	590233.91	32°37'20.206"N	104°01'31.783"W	0.00	
9561.00†	88.097	270.395	8170.80	1672.34	11.53	-1672.30	594678.28	590234.60	32°37'20.215"N	104°01'32.952"W	0.00	
9661.00†	88.097	270.395	8174.12	1772.29	12.22	-1772.25	594578.35	590235.29	32°37'20.225"N	104°01'34.120"W	0.00	
9761.00†	88.097	270.395	8177.45	1872.23	12.91	-1872.19	594478.41	590235.97	32°37'20.235"N	104°01'35.289"W	0.00	
9861.00†	88.097	270.395	8180.77	1972.18	13.59	-1972.13	594378.48	590236.66	32°37'20.244"N	104°01'36.457"W	0.00	
9961.00†	88.097	270.395	8184.09	2072.12	14.28	-2072.07	594278.55	590237.35	32°37'20.254"N	104°01'37.626"W	0.00	
10061.00†	88.097	270.395	8187.41	2172.07	14.97	-2172.02	594178.61	590238.04	32°37'20.264"N	104°01'38.794"W	0.00	
10161.00†	88.097	270.395	8190.73	2272.01	15.66	-2271.96	594078.68	590238.73	32°37'20.273"N	104°01'39.963"W	0.00	
10261.00†	88.097	270.395	8194.05	2371.96	16.35	-2371.90	593978.74	590239.42	32°37'20.283"N	104°01'41.131"W	0.00	

Planned Wellpath Report

Mewbourne Oil Company

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Three Palms) Sec 36, T19S, R29E	Wellbore	No. 1H PWB
Facility	Three Palms 36 State Com #1H		

WELLPATH DATA (53 stations) † = interpolated/extrapolated station												
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
10361.00†	88.097	270.395	8197.37	2471.90	17.04	-2471.84	593878.81	590240.11	32°37'20.293"N	104°01'42.300"W	0.00	
10461.00†	88.097	270.395	8200.69	2571.85	17.73	-2571.79	593778.88	590240.80	32°37'20.302"N	104°01'43.468"W	0.00	
10561.00†	88.097	270.395	8204.01	2671.79	18.42	-2671.73	593678.94	590241.49	32°37'20.312"N	104°01'44.637"W	0.00	
10661.00†	88.097	270.395	8207.33	2771.74	19.11	-2771.67	593579.01	590242.17	32°37'20.322"N	104°01'45.805"W	0.00	
10761.00†	88.097	270.395	8210.66	2871.68	19.79	-2871.61	593479.07	590242.86	32°37'20.331"N	104°01'46.974"W	0.00	
10861.00†	88.097	270.395	8213.98	2971.63	20.48	-2971.56	593379.14	590243.55	32°37'20.341"N	104°01'48.142"W	0.00	
10961.00†	88.097	270.395	8217.30	3071.57	21.17	-3071.50	593279.20	590244.24	32°37'20.351"N	104°01'49.310"W	0.00	
11061.00†	88.097	270.395	8220.62	3171.52	21.86	-3171.44	593179.27	590244.93	32°37'20.360"N	104°01'50.479"W	0.00	
11161.00†	88.097	270.395	8223.94	3271.46	22.55	-3271.38	593079.34	590245.62	32°37'20.370"N	104°01'51.647"W	0.00	
11261.00†	88.097	270.395	8227.26	3371.41	23.24	-3371.33	592979.40	590246.31	32°37'20.380"N	104°01'52.816"W	0.00	
11361.00†	88.097	270.395	8230.58	3471.35	23.93	-3471.27	592879.47	590247.00	32°37'20.389"N	104°01'53.984"W	0.00	
11461.00†	88.097	270.395	8233.90	3571.30	24.62	-3571.21	592779.53	590247.69	32°37'20.399"N	104°01'55.153"W	0.00	
11561.00†	88.097	270.395	8237.22	3671.24	25.31	-3671.15	592679.60	590248.37	32°37'20.408"N	104°01'56.321"W	0.00	
11661.00†	88.097	270.395	8240.54	3771.19	26.00	-3771.10	592579.66	590249.06	32°37'20.418"N	104°01'57.490"W	0.00	
11761.00†	88.097	270.395	8243.86	3871.13	26.68	-3871.04	592479.73	590249.75	32°37'20.428"N	104°01'58.658"W	0.00	
11861.00†	88.097	270.395	8247.19	3971.08	27.37	-3970.98	592379.80	590250.44	32°37'20.437"N	104°01'59.827"W	0.00	
11961.00†	88.097	270.395	8250.51	4071.02	28.06	-4070.92	592279.86	590251.13	32°37'20.447"N	104°02'00.995"W	0.00	
12061.00†	88.097	270.395	8253.83	4170.97	28.75	-4170.87	592179.93	590251.82	32°37'20.456"N	104°02'02.164"W	0.00	
12161.00†	88.097	270.395	8257.15	4270.91	29.44	-4270.81	592079.99	590252.51	32°37'20.466"N	104°02'03.332"W	0.00	
12261.00†	88.097	270.395	8260.47	4370.85	30.13	-4370.75	591980.06	590253.20	32°37'20.476"N	104°02'04.501"W	0.00	
12361.00†	88.097	270.395	8263.79	4470.80	30.82	-4470.69	591880.12	590253.89	32°37'20.485"N	104°02'05.669"W	0.00	
12461.00†	88.097	270.395	8267.11	4570.74	31.51	-4570.64	591780.19	590254.57	32°37'20.495"N	104°02'06.838"W	0.00	
12517.88	88.097	270.395	8269.00†	4627.59	31.90	-4627.48	591723.35	590254.97	32°37'20.500"N	104°02'07.502"W	0.00	No. 1H PBHL

Planned 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	(Three Palms) Sec 36, T19S, R29E	Wellbore	No. 1H PWB
Facility	Three Palms 36 State Com #1H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 1H PBHL	12517.88	8269.00	31.90	-4627.48	591723.35	590254.97	32°37'20.500"N	104°02'07.502"W	point

SURVEY PROGRAM Ref Wellbore: No. 1H PWB Ref Wellpath: Prelim_1

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	8142.00	NaviTrak (Standard)		No. 1H PWB
8142.00	12517.88	OnTrak (Standard)		No. 1H PWB