

**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

**APPLICATION OF MEWBOURNE OIL COMPANY
FOR APPROVAL OF A NON-STANDARD OIL SPACING
AND PRORATION UNIT AND COMPULSORY POOLING,
EDDY COUNTY, NEW MEXICO.**


Case No. 14,523

AFFIDAVIT OF JASON LODGE

COUNTY OF SMITH)
) ss.
STATE OF TEXAS)

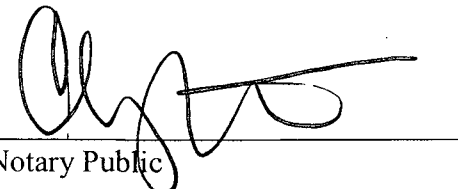
Jason Lodge, being duly sworn upon his oath, deposes and states:

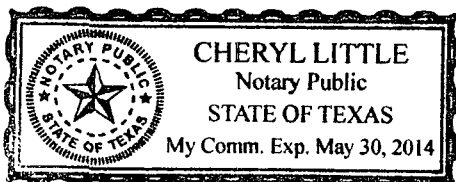
1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am a geologist for Mewbourne Oil Company.
3. Exhibit A is a structure map on top of the Yeso formation. The formation dips gently to the Southeast. Exhibit A also contains production data from existing wells in the pool.
4. Exhibit B is a cross section which shows the productive interval and stratigraphic target for Yeso wells in the area.
5. Attached as Exhibit C is the horizontal drilling plan for the subject well. A horizontal wellbore will test a greater reservoir length, increasing the chances for an economic completion.
6. All four quarter-quarter sections in the well unit are prospective in the Yeso formation, and applicant anticipates producing reserves from each quarter-quarter section.


Jason Lodge

SUBSCRIBED AND SWORN TO before me this 2nd day of August, 2010 by Jason Lodge.

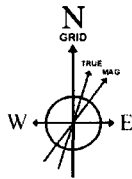
My Commission Expires: 5/30/2014


Notary Public

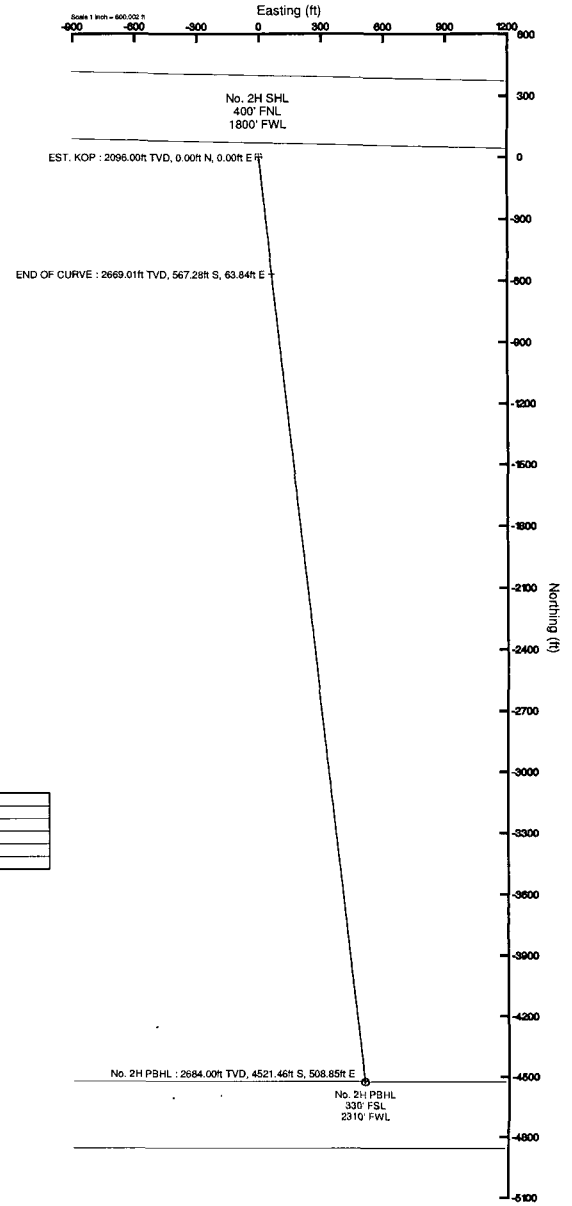


Oil Conservation Division
Case No. _____
Exhibit No. 2

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	173.579	0.00	0.00	0.00	0.00	0.00
EST. KOP	2096.00	0.000	173.579	2096.00	0.00	0.00	0.00	0.00
END OF CURVE	2993.93	89.784	173.579	2669.01	-567.28	63.84	10.00	570.86
No. 2H PBHL	6973.10	89.784	173.579	2684.00	-4521.46	508.85	0.00	4550.00

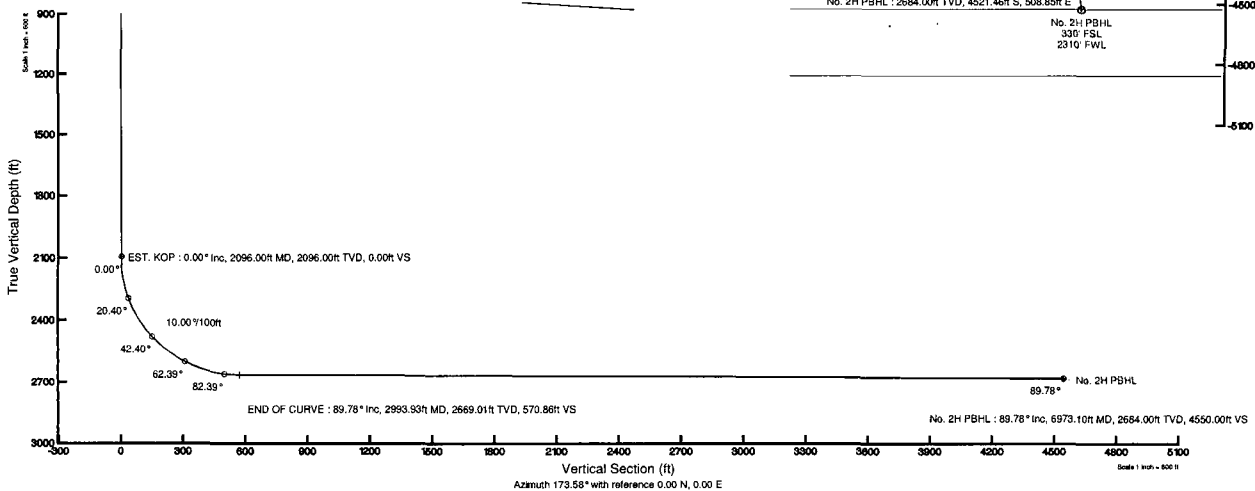


BGGM (1945.0 to 2011.0) Dip: 60.38° Field: 48876.9 nT
 Magnetic North is 8.20 degrees East of True North (at 6/2/2010)
 Grid North is 0.09 degrees West of True North
 To correct azimuth from True to Grid add 0.09 degrees
 To correct azimuth from Magnetic to Grid add 8.29 degrees
 For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 8.29 = 98.29



Plot reference wellpath is Prelim_2	Grid System: NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet
True vertical depths are referenced to Rig 63 on No. 2H SHL (KB)	North Reference: Grid north
Measured depths are referenced to Rig 63 on No. 2H SHL (KB)	Scale: True distance
Rig 63 on No. 2H SHL (KB) to Mean Sea Level: 3474 feet	Depths are in feet
Mean Sea Level to Mud line (Facility: Pine Box 21 CN Fed Com No. 2H): -3480 feet	Created by: Victor Hernandez on 6/3/2010
Coordinates are in feet referenced to Slot	

EXHIBIT



Planned Wellpath Report

 Mewbourne Oil Company

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 2H SHL
Area	Eddy County, NM	Well	No. 2H
Field	(Pine) Sec 21, T20S, R25E	Wellbore	No. 2H PWB
Facility	Pine Box 21 CN Fed Com No. 2H		

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	0.999912	Report Generated	6/8/2010 at 11:29:09 AM
Convergence at slot	0.09° West	Database/Source file	WA_Midland/No. 2H_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	451151.80	569344.15	32°33'54.483"N	104°29'30.808"W
Facility Reference Pt			451151.80	569344.15	32°33'54.483"N	104°29'30.808"W
Field Reference Pt			451151.80	569344.15	32°33'54.483"N	104°29'30.808"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig 63 on No. 2H SHL (KB) to GL	14.00ft
Horizontal Reference Pt	Slot	Rig 63 on No. 2H SHL (KB) to Mean Sea Level	3474.00ft
Vertical Reference Pt	Rig 63 on No. 2H SHL (KB)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig 63 on No. 2H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	173.58°

Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 2H SHL
Area	Eddy County, NM	Well	No. 2H
Field	(Pine) Sec 21, T20S, R25E	Wellbore	No. 2H PWB
Facility	Pine Box 21 CN Fed Com No. 2H		

WELLPATH DATA (52 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	173.579	0.00	0.00	0.00	0.00	451151.80	569344.15	32°33'54.483"N	104°29'30.808"W	0.00	Tie On
2096.00	0.000	173.579	2096.00	0.00	0.00	0.00	451151.80	569344.15	32°33'54.483"N	104°29'30.808"W	0.00	EST. KOP
2196.00†	9.999	173.579	2195.49	8.70	-8.65	0.97	451152.77	569335.50	32°33'54.398"N	104°29'30.796"W	10.00	
2296.00†	19.998	173.579	2291.96	34.55	-34.33	3.86	451155.66	569309.82	32°33'54.144"N	104°29'30.762"W	10.00	
2396.00†	29.997	173.579	2382.48	76.75	-76.27	8.58	451160.38	569267.88	32°33'53.729"N	104°29'30.706"W	10.00	
2496.00†	39.996	173.579	2464.30	134.03	-133.19	14.99	451166.79	569210.97	32°33'53.166"N	104°29'30.630"W	10.00	
2596.00†	49.995	173.579	2534.92	204.65	-203.37	22.89	451174.68	569140.80	32°33'52.471"N	104°29'30.537"W	10.00	
2696.00†	59.994	173.579	2592.22	286.46	-284.66	32.04	451183.83	569059.52	32°33'51.667"N	104°29'30.428"W	10.00	
2796.00†	69.993	173.579	2634.43	376.97	-374.60	42.16	451193.95	568969.58	32°33'50.777"N	104°29'30.308"W	10.00	
2896.00†	79.992	173.579	2660.30	473.43	-470.46	52.95	451204.74	568873.73	32°33'49.829"N	104°29'30.181"W	10.00	
2993.93	89.784	173.579	2669.01	570.86	-567.28	63.84	451215.64	568776.93	32°33'48.871"N	104°29'30.052"W	10.00	END OF CURVE
2996.00†	89.784	173.579	2669.02	572.93	-569.33	64.07	451215.87	568774.87	32°33'48.851"N	104°29'30.049"W	0.00	
3096.00†	89.784	173.579	2669.40	672.92	-668.70	75.26	451227.05	568675.51	32°33'47.868"N	104°29'29.917"W	0.00	
3196.00†	89.784	173.579	2669.77	772.92	-768.08	86.44	451238.23	568576.14	32°33'46.884"N	104°29'29.784"W	0.00	
3296.00†	89.784	173.579	2670.15	872.92	-867.45	97.62	451249.41	568476.78	32°33'45.901"N	104°29'29.652"W	0.00	
3396.00†	89.784	173.579	2670.53	972.92	-966.82	108.81	451260.60	568377.42	32°33'44.918"N	104°29'29.519"W	0.00	
3496.00†	89.784	173.579	2670.90	1072.92	-1066.19	119.99	451271.78	568278.06	32°33'43.935"N	104°29'29.387"W	0.00	
3596.00†	89.784	173.579	2671.28	1172.92	-1165.56	131.17	451282.96	568178.69	32°33'42.952"N	104°29'29.255"W	0.00	
3696.00†	89.784	173.579	2671.66	1272.92	-1264.93	142.36	451294.14	568079.33	32°33'41.969"N	104°29'29.122"W	0.00	
3796.00†	89.784	173.579	2672.03	1372.92	-1364.31	153.54	451305.33	567979.97	32°33'40.986"N	104°29'28.990"W	0.00	
3896.00†	89.784	173.579	2672.41	1472.92	-1463.68	164.72	451316.51	567880.60	32°33'40.003"N	104°29'28.857"W	0.00	
3996.00†	89.784	173.579	2672.79	1572.92	-1563.05	175.91	451327.69	567781.24	32°33'39.020"N	104°29'28.725"W	0.00	
4096.00†	89.784	173.579	2673.16	1672.92	-1662.42	187.09	451338.87	567681.88	32°33'38.036"N	104°29'28.593"W	0.00	
4196.00†	89.784	173.579	2673.54	1772.92	-1761.79	198.27	451350.05	567582.51	32°33'37.053"N	104°29'28.460"W	0.00	
4296.00†	89.784	173.579	2673.92	1872.92	-1861.17	209.46	451361.24	567483.15	32°33'36.070"N	104°29'28.328"W	0.00	
4396.00†	89.784	173.579	2674.29	1972.92	-1960.54	220.64	451372.42	567383.79	32°33'35.087"N	104°29'28.196"W	0.00	
4496.00†	89.784	173.579	2674.67	2072.91	-2059.91	231.82	451383.60	567284.42	32°33'34.104"N	104°29'28.063"W	0.00	
4596.00†	89.784	173.579	2675.05	2172.91	-2159.28	243.01	451394.78	567185.06	32°33'33.121"N	104°29'27.931"W	0.00	
4696.00†	89.784	173.579	2675.42	2272.91	-2258.65	254.19	451405.97	567085.70	32°33'32.138"N	104°29'27.798"W	0.00	
4796.00†	89.784	173.579	2675.80	2372.91	-2358.03	265.37	451417.15	566986.34	32°33'31.155"N	104°29'27.666"W	0.00	

Planned Wellpath Report

Mewbourne Oil Company

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 2H SHL
Area	Eddy County, NM	Well	No. 2H
Field	(Pine) Sec 21, T20S, R25E	Wellbore	No. 2H PWB
Facility	Pine Box 21 CN Fed Com No. 2H		

WELLPATH DATA (52 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
4896.00†	89.784	173.579	2676.18	2472.91	-2457.40	276.56	451428.33	566886.97	32°33'30.172"N	104°29'27.534"W	0.00	
4996.00†	89.784	173.579	2676.55	2572.91	-2556.77	287.74	451439.51	566787.61	32°33'29.188"N	104°29'27.401"W	0.00	
5096.00†	89.784	173.579	2676.93	2672.91	-2656.14	298.92	451450.70	566688.25	32°33'28.205"N	104°29'27.269"W	0.00	
5196.00†	89.784	173.579	2677.31	2772.91	-2755.51	310.11	451461.88	566588.88	32°33'27.222"N	104°29'27.137"W	0.00	
5296.00†	89.784	173.579	2677.68	2872.91	-2854.89	321.29	451473.06	566489.52	32°33'26.239"N	104°29'27.004"W	0.00	
5396.00†	89.784	173.579	2678.06	2972.91	-2954.26	332.47	451484.24	566390.16	32°33'25.256"N	104°29'26.872"W	0.00	
5496.00†	89.784	173.579	2678.44	3072.91	-3053.63	343.66	451495.43	566290.79	32°33'24.273"N	104°29'26.739"W	0.00	
5596.00†	89.784	173.579	2678.81	3172.91	-3153.00	354.84	451506.61	566191.43	32°33'23.290"N	104°29'26.607"W	0.00	
5696.00†	89.784	173.579	2679.19	3272.91	-3252.37	366.02	451517.79	566092.07	32°33'22.307"N	104°29'26.475"W	0.00	
5796.00†	89.784	173.579	2679.57	3372.91	-3351.75	377.21	451528.97	565992.71	32°33'21.324"N	104°29'26.342"W	0.00	
5896.00†	89.784	173.579	2679.94	3472.90	-3451.12	388.39	451540.15	565893.34	32°33'20.340"N	104°29'26.210"W	0.00	
5996.00†	89.784	173.579	2680.32	3572.90	-3550.49	399.57	451551.34	565793.98	32°33'19.357"N	104°29'26.078"W	0.00	
6096.00†	89.784	173.579	2680.70	3672.90	-3649.86	410.76	451562.52	565694.62	32°33'18.374"N	104°29'25.945"W	0.00	
6196.00†	89.784	173.579	2681.07	3772.90	-3749.23	421.94	451573.70	565595.25	32°33'17.391"N	104°29'25.813"W	0.00	
6296.00†	89.784	173.579	2681.45	3872.90	-3848.61	433.12	451584.88	565495.89	32°33'16.408"N	104°29'25.680"W	0.00	
6396.00†	89.784	173.579	2681.83	3972.90	-3947.98	444.31	451596.07	565396.53	32°33'15.425"N	104°29'25.548"W	0.00	
6496.00†	89.784	173.579	2682.20	4072.90	-4047.35	455.49	451607.25	565297.16	32°33'14.442"N	104°29'25.416"W	0.00	
6596.00†	89.784	173.579	2682.58	4172.90	-4146.72	466.67	451618.43	565197.80	32°33'13.459"N	104°29'25.283"W	0.00	
6696.00†	89.784	173.579	2682.96	4272.90	-4246.09	477.86	451629.61	565098.44	32°33'12.475"N	104°29'25.151"W	0.00	
6796.00†	89.784	173.579	2683.33	4372.90	-4345.47	489.04	451640.80	564999.08	32°33'11.492"N	104°29'25.019"W	0.00	
6896.00†	89.784	173.579	2683.71	4472.90	-4444.84	500.22	451651.98	564899.71	32°33'10.509"N	104°29'24.886"W	0.00	
6973.10	89.784	173.579	2684.00 ¹	4550.00	-4521.46	508.85	451660.60	564823.10	32°33'09.751"N	104°29'24.784"W	0.00	No. 2H PBHL

Planned Wellpath Report

 Mewbourne Oil Company

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 2H SHL
Area	Eddy County, NM	Well	No. 2H
Field	(Pine) Sec 21, T20S, R25E	Wellbore	No. 2H PWB
Facility	Pine Box 21 CN Fed Com No. 2H		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 2H PBHL	6973.10	2684.00	-4521.46	508.85	451660.60	564823.10	32°33'09.751"N	104°29'24.784"W	point

SURVEY PROGRAM Ref Wellbore: No. 2H PWB Ref Wellpath: Prelim_2				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
14.00	6973.10	NaviTrak (Standard)		No. 2H PWB