

Ezeanyim, Richard, EMNRD

From: jamesbruc@aol.com
Sent: Wednesday, July 25, 2012 9:40 AM
To: Ezeanyim, Richard, EMNRD
Subject: Case 14877/Mewbourne
Attachments: moc-West_Draw_5_NC_#1H_SES_(8.5x11).pdf; moc-West_Draw_5_NC_#1H_SES_(numbers).pdf

Richard: Attached is a wellbore diagram and footage info.

Jim



NM-East
NAD27

****Grid Correction = 8.025° E****

Surface Location

Latitude: 32°35'42.1956"
Longitude: -104°30'35.4578"
Y: 580237.51
X: 445637.25
100 FNL, 1670 FWL (Section 8)

Landing Point

482.72' Displacement from S/L
@ 0.63° Azimuth from S/L
North: 482.69' East: 5.33'
TVD: 2705.98' MD: 2983.79'
Y: 580720.20
X: 445642.58

Proposed BHL

5045.20' Displacement from S/L
@ 0.63° Azimuth from S/L
North: 5044.89' East: 55.83'
TVD: 2656.00' MD: 7546.54'
Y: 585282.40
X: 445693.08
330 FNL, 1670 FWL (Section 5)

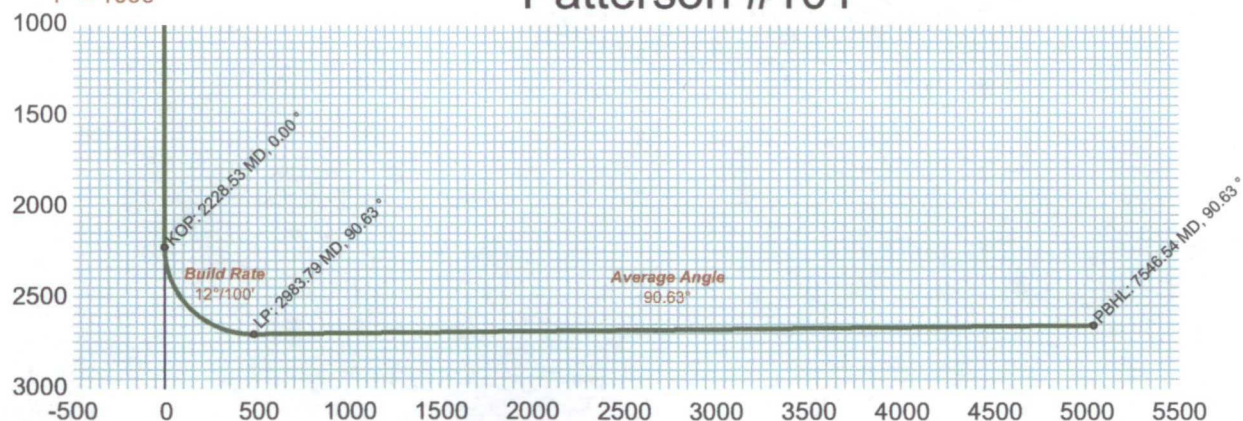
Well Plan #1
May 29, 2012



West Draw 5 NC #1H Eddy County, New Mexico Patterson #101

Vertical Section Plot

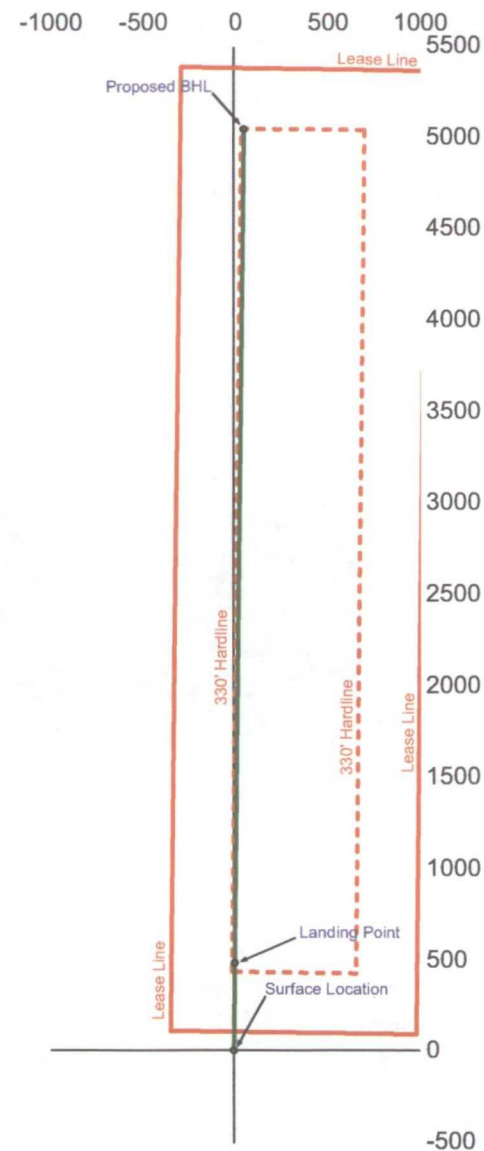
1" = 1000'



Plane of Proposal (0.63°)
VS = 5045.20'

Horizontal Plot

1" = 1000'





Job Number: S12-WD5NC#1H
Company: Mewbourne Oil Company
Lease/Well: West Draw 5 NC #1H
Location: NM-East
Rig Name: Patterson #101
State/County: New Mexico/ Eddy
Country: United States of America
API Number: N/A

Elevation (To MSL): 0.00 ft
RKB: 0.00 ft
Projection System: US State Plane 1927 (Exact solution)
Projection Group: New Mexico East 3001
Projection Datum: CLARKE 1866
Magnetic Declination: 7.93
Grid Convergence: -0.09509 W
Date: Tuesday, May 29, 2012

Calculated by HawkEye Software
Minimum Curvature Method
Vertical Section Plane 0.63°

Northing (US ft): 580237.51 Easting (US ft): 445637.25
Latitude: 32°35'42.1956" N Longitude: -104°30'35.4578" W

Well Location: 90.66 FNL, 1679.79 FWL, Section 8, T20S, R25E, Meridian 23, Eddy County, NM
Direction Reference: Grid North

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	Northing (US ft)	Easting (US ft)	Latitude DMS	Longitude DMS	Build Rate %/100Ft	VS (Ft)	Closure (Ft)	Closure Dir Deg	DLS %/100Ft
KOP-Begin Build @ 2228.53MD, 12.00°/ 100 Ft														
2228.53	0.00	0.00	2228.53	0.00	0.00	580237.51	445637.25	32°35'42.1956" N	-104°30'35.4578" W	0.00	0.00	0.00	0.03	0.00
2258.53	3.60	0.63	2258.51	0.94	0.01	580238.46	445637.26	32°35'42.2049" N	-104°30'35.4578" W	12.00	0.94	0.94	0.35	12.00
2288.53	7.20	0.63	2288.37	3.77	0.04	580241.28	445637.29	32°35'42.2329" N	-104°30'35.4574" W	12.00	3.77	3.77	0.63	12.00
2318.53	10.80	0.63	2318.00	8.46	0.09	580245.97	445637.34	32°35'42.2793" N	-104°30'35.4569" W	12.00	8.46	8.46	0.61	12.00
2348.53	14.40	0.63	2347.27	15.00	0.17	580252.51	445637.42	32°35'42.3440" N	-104°30'35.4562" W	12.00	15.00	15.00	0.63	12.00
2378.53	18.00	0.63	2376.07	23.37	0.26	580260.88	445637.51	32°35'42.4269" N	-104°30'35.4552" W	12.00	23.37	23.37	0.64	12.00
2408.53	21.60	0.63	2404.30	33.53	0.37	580271.04	445637.62	32°35'42.5274" N	-104°30'35.4541" W	12.00	33.53	33.53	0.63	12.00
2438.53	25.20	0.63	2431.82	45.44	0.51	580282.95	445637.76	32°35'42.6453" N	-104°30'35.4528" W	12.00	45.45	45.45	0.64	12.00
2468.53	28.80	0.63	2458.55	59.06	0.65	580296.57	445637.90	32°35'42.7800" N	-104°30'35.4513" W	12.00	59.06	59.06	0.63	12.00
2498.53	32.40	0.63	2484.37	74.33	0.82	580311.84	445638.07	32°35'42.9311" N	-104°30'35.4497" W	12.00	74.33	74.33	0.63	12.00
2528.53	36.00	0.63	2509.18	91.18	1.01	580328.70	445638.26	32°35'43.0979" N	-104°30'35.4478" W	12.00	91.19	91.19	0.63	12.00
2558.53	39.60	0.63	2532.88	109.57	1.21	580347.08	445638.46	32°35'43.2799" N	-104°30'35.4458" W	12.00	109.58	109.58	0.63	12.00
2588.53	43.20	0.63	2555.38	129.40	1.43	580366.91	445638.68	32°35'43.4761" N	-104°30'35.4436" W	12.00	129.41	129.41	0.63	12.00
2606.14	45.31	0.63	2567.99	141.69	1.57	580379.20	445638.82	32°35'43.5977" N	-104°30'35.4422" W	11.98	141.70	141.70	0.63	11.98
2636.14	48.91	0.63	2588.40	163.67	1.81	580401.18	445639.06	32°35'43.8152" N	-104°30'35.4398" W	12.00	163.68	163.68	0.63	12.00
2666.14	52.51	0.63	2607.40	186.88	2.06	580424.39	445639.31	32°35'44.0449" N	-104°30'35.4373" W	12.00	186.89	186.89	0.63	12.00
2696.14	56.11	0.63	2624.89	211.24	2.33	580448.75	445639.58	32°35'44.2860" N	-104°30'35.4347" W	12.00	211.25	211.25	0.63	12.00
2726.14	59.71	0.63	2640.83	236.65	2.61	580474.16	445639.86	32°35'44.5374" N	-104°30'35.4319" W	12.00	236.66	236.66	0.63	12.00
2756.14	63.31	0.63	2655.13	263.01	2.91	580500.52	445640.16	32°35'44.7983" N	-104°30'35.4289" W	12.00	263.02	263.02	0.63	12.00
2786.14	66.91	0.63	2667.76	290.22	3.20	580527.73	445640.45	32°35'45.0676" N	-104°30'35.4260" W	12.00	290.24	290.24	0.63	12.00
2816.14	70.51	0.63	2678.65	318.16	3.51	580555.67	445640.76	32°35'45.3441" N	-104°30'35.4229" W	12.00	318.18	318.18	0.63	12.00
2846.14	74.11	0.63	2687.77	346.74	3.83	580584.25	445641.08	32°35'45.6269" N	-104°30'35.4198" W	12.00	346.76	346.76	0.63	12.00
2876.14	77.71	0.63	2695.07	375.83	4.15	580613.34	445641.40	32°35'45.9147" N	-104°30'35.4166" W	12.00	375.85	375.85	0.63	12.00
2906.14	81.31	0.63	2700.53	405.32	4.48	580642.83	445641.73	32°35'46.2066" N	-104°30'35.4134" W	12.00	405.35	405.35	0.63	12.00
2936.14	84.91	0.63	2704.13	435.10	4.80	580672.61	445642.05	32°35'46.5013" N	-104°30'35.4101" W	12.00	435.13	435.13	0.63	12.00

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	Northing (US ft)	Easting (US ft)	Latitude DMS	Longitude DMS	Build Rate %/100Ft	VS (Ft)	Closure (Ft)	Closure Dir Deg	DLS %/100Ft
2966.14	88.51	0.63	2705.85	465.04	5.14	580702.55	445642.39	32°35'46.7976" N	-104°30'35.4068" W	12.00	465.07	465.07	0.63	12.00
LP: 2983.79 MD, 90.63°														
2983.79	90.63	0.63	2705.98	482.69	5.33	580720.20	445642.58	32°35'46.9722" N	-104°30'35.4048" W	12.00	482.72	482.72	0.63	12.00
3083.79	90.63	0.63	2704.88	582.68	6.44	580820.19	445643.69	32°35'47.9617" N	-104°30'35.3939" W	0.00	582.71	582.71	0.63	0.00
3183.79	90.63	0.63	2703.79	682.67	7.54	580920.18	445644.79	32°35'48.9512" N	-104°30'35.3829" W	0.00	682.71	682.71	0.63	0.00
3283.79	90.63	0.63	2702.69	782.65	8.65	581020.17	445645.90	32°35'49.9407" N	-104°30'35.3719" W	0.00	782.70	782.70	0.63	0.00
3383.79	90.63	0.63	2701.60	882.64	9.76	581120.15	445647.01	32°35'50.9301" N	-104°30'35.3609" W	0.00	882.70	882.70	0.63	0.00
3483.79	90.63	0.63	2700.50	982.63	10.86	581220.14	445648.11	32°35'51.9196" N	-104°30'35.3499" W	0.00	982.69	982.69	0.63	0.00
3583.79	90.63	0.63	2699.41	1082.62	11.97	581320.13	445649.22	32°35'52.9091" N	-104°30'35.3389" W	0.00	1082.68	1082.68	0.63	0.00
3683.79	90.63	0.63	2698.31	1182.61	13.08	581420.12	445650.33	32°35'53.8986" N	-104°30'35.3279" W	0.00	1182.68	1182.68	0.63	0.00
3783.79	90.63	0.63	2697.22	1282.59	14.18	581520.10	445651.43	32°35'54.8880" N	-104°30'35.3169" W	0.00	1282.67	1282.67	0.63	0.00
3883.79	90.63	0.63	2696.12	1382.58	15.29	581620.09	445652.54	32°35'55.8775" N	-104°30'35.3059" W	0.00	1382.67	1382.67	0.63	0.00
3983.79	90.63	0.63	2695.02	1482.57	16.40	581720.08	445653.65	32°35'56.8670" N	-104°30'35.2949" W	0.00	1482.66	1482.66	0.63	0.00
4083.79	90.63	0.63	2693.93	1582.56	17.50	581820.07	445654.75	32°35'57.8564" N	-104°30'35.2839" W	0.00	1582.65	1582.65	0.63	0.00
4183.79	90.63	0.63	2692.83	1682.54	18.61	581920.06	445655.86	32°35'58.8459" N	-104°30'35.2729" W	0.00	1682.65	1682.65	0.63	0.00
4283.79	90.63	0.63	2691.74	1782.53	19.72	582020.04	445656.97	32°35'59.8354" N	-104°30'35.2619" W	0.00	1782.64	1782.64	0.63	0.00
4383.79	90.63	0.63	2690.64	1882.52	20.82	582120.03	445658.07	32°36'0.8249" N	-104°30'35.2509" W	0.00	1882.64	1882.64	0.63	0.00
4483.79	90.63	0.63	2689.55	1982.51	21.93	582220.02	445659.18	32°36'1.8143" N	-104°30'35.2399" W	0.00	1982.63	1982.63	0.63	0.00
4583.79	90.63	0.63	2688.45	2082.50	23.04	582320.01	445660.29	32°36'2.8038" N	-104°30'35.2289" W	0.00	2082.62	2082.62	0.63	0.00
4683.79	90.63	0.63	2687.36	2182.48	24.14	582420.00	445661.39	32°36'3.7933" N	-104°30'35.2179" W	0.00	2182.62	2182.62	0.63	0.00
4783.79	90.63	0.63	2686.26	2282.47	25.25	582519.98	445662.50	32°36'4.7827" N	-104°30'35.2069" W	0.00	2282.61	2282.61	0.63	0.00
4883.79	90.63	0.63	2685.17	2382.46	26.36	582619.97	445663.61	32°36'5.7722" N	-104°30'35.1959" W	0.00	2382.61	2382.61	0.63	0.00
4983.79	90.63	0.63	2684.07	2482.45	27.46	582719.96	445664.71	32°36'6.7617" N	-104°30'35.1849" W	0.00	2482.60	2482.60	0.63	0.00
5083.79	90.63	0.63	2682.97	2582.44	28.57	582819.95	445665.82	32°36'7.7512" N	-104°30'35.1739" W	0.00	2582.59	2582.59	0.63	0.00
5183.79	90.63	0.63	2681.88	2682.42	29.68	582919.94	445666.93	32°36'8.7406" N	-104°30'35.1629" W	0.00	2682.59	2682.59	0.63	0.00
5283.79	90.63	0.63	2680.78	2782.41	30.78	583019.92	445668.03	32°36'9.7301" N	-104°30'35.1519" W	0.00	2782.58	2782.58	0.63	0.00
5383.79	90.63	0.63	2679.69	2882.40	31.89	583119.91	445669.14	32°36'10.7196" N	-104°30'35.1409" W	0.00	2882.58	2882.58	0.63	0.00
5483.79	90.63	0.63	2678.59	2982.39	33.00	583219.90	445670.25	32°36'11.7090" N	-104°30'35.1299" W	0.00	2982.57	2982.57	0.63	0.00
5583.79	90.63	0.63	2677.50	3082.37	34.10	583319.89	445671.35	32°36'12.6985" N	-104°30'35.1189" W	0.00	3082.56	3082.56	0.63	0.00
5683.79	90.63	0.63	2676.40	3182.36	35.21	583419.87	445672.46	32°36'13.6880" N	-104°30'35.1079" W	0.00	3182.56	3182.56	0.63	0.00
5783.79	90.63	0.63	2675.31	3282.35	36.32	583519.86	445673.57	32°36'14.6775" N	-104°30'35.0969" W	0.00	3282.55	3282.55	0.63	0.00
5883.79	90.63	0.63	2674.21	3382.34	37.42	583619.85	445674.67	32°36'15.6669" N	-104°30'35.0859" W	0.00	3382.55	3382.55	0.63	0.00
5983.79	90.63	0.63	2673.11	3482.33	38.53	583719.84	445675.78	32°36'16.6564" N	-104°30'35.0749" W	0.00	3482.54	3482.54	0.63	0.00
6083.79	90.63	0.63	2672.02	3582.31	39.64	583819.83	445676.89	32°36'17.6459" N	-104°30'35.0639" W	0.00	3582.53	3582.53	0.63	0.00
6183.79	90.63	0.63	2670.92	3682.30	40.74	583919.81	445677.99	32°36'18.6353" N	-104°30'35.0529" W	0.00	3682.53	3682.53	0.63	0.00
6283.79	90.63	0.63	2669.83	3782.29	41.85	584019.80	445679.10	32°36'19.6248" N	-104°30'35.0419" W	0.00	3782.52	3782.52	0.63	0.00
6383.79	90.63	0.63	2668.73	3882.28	42.96	584119.79	445680.21	32°36'20.6143" N	-104°30'35.0309" W	0.00	3882.52	3882.52	0.63	0.00
6483.79	90.63	0.63	2667.64	3982.27	44.06	584219.78	445681.31	32°36'21.6038" N	-104°30'35.0199" W	0.00	3982.51	3982.51	0.63	0.00
6583.79	90.63	0.63	2666.54	4082.25	45.17	584319.77	445682.42	32°36'22.5932" N	-104°30'35.0089" W	0.00	4082.50	4082.50	0.63	0.00
6683.79	90.63	0.63	2665.45	4182.24	46.28	584419.75	445683.53	32°36'23.5827" N	-104°30'34.9979" W	0.00	4182.50	4182.50	0.63	0.00
6783.79	90.63	0.63	2664.35	4282.23	47.38	584519.74	445684.63	32°36'24.5722" N	-104°30'34.9869" W	0.00	4282.49	4282.49	0.63	0.00

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	Northing (US ft)	Easting (US ft)	Latitude DMS	Longitude DMS	Build Rate °/100Ft	VS (Ft)	Closure (Ft)	Closure Dir Deg	DLS °/100Ft
6883.79	90.63	0.63	2663.25	4382.22	48.49	584619.73	445685.74	32°36'25.5616" N	-104°30'34.9759" W	0.00	4382.49	4382.49	0.63	0.00
6983.79	90.63	0.63	2662.16	4482.20	49.60	584719.72	445686.85	32°36'26.5511" N	-104°30'34.9649" W	0.00	4482.48	4482.48	0.63	0.00
7083.79	90.63	0.63	2661.06	4582.19	50.70	584819.70	445687.95	32°36'27.5406" N	-104°30'34.9539" W	0.00	4582.47	4582.47	0.63	0.00
7183.79	90.63	0.63	2659.97	4682.18	51.81	584919.69	445689.06	32°36'28.5301" N	-104°30'34.9429" W	0.00	4682.47	4682.47	0.63	0.00
7283.79	90.63	0.63	2658.87	4782.17	52.92	585019.68	445690.17	32°36'29.5195" N	-104°30'34.9319" W	0.00	4782.46	4782.46	0.63	0.00
7383.79	90.63	0.63	2657.78	4882.16	54.02	585119.67	445691.27	32°36'30.5090" N	-104°30'34.9209" W	0.00	4882.46	4882.46	0.63	0.00
7483.79	90.63	0.63	2656.68	4982.14	55.13	585219.66	445692.38	32°36'31.4985" N	-104°30'34.9100" W	0.00	4982.45	4982.45	0.63	0.00
PBHL @ 2656.00 Ft TVD														
7546.54	90.63	0.63	2656.00	5044.89	55.83	585282.40	445693.08	32°36'32.1194" N	-104°30'34.9030" W	0.00	5045.20	5045.20	0.63	0.00

MAGNETICS INFORMATION

Magnetic Model: C:\HawkEye\IGRF2010.MIF

Date for Magnetics: 05/29/2012

Latitude: 32°35'42.1956" N

Longitude: -104°30'35.4578" W

Magnetic Declination: 7.93

Total Correction(Mag to Grid): 8.03

Field Strength (nt): 48664

B-X Component (nt): 23854

B-Y Component (nt): 3323

B-Z Component (nt): 42287

B-Horz Component (nt): 24084

Dip Angle: 60.34

TARGET DATA

Name	Shape	Easting (Ft)	Northing (Ft)	Subsea TVD (Ft)	NS (Ft)	EW (Ft)	Side A (Ft)	Side B (Ft)	Diameter (Ft)
PBHL	CYLINDER	445693.08	585282.40	2656.00	5044.89	55.83	100.00	200.00	100.00
LP	CYLINDER	445642.56	580717.48	2706.00	479.97	5.31	100.00	100.00	100.00