

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

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

Case No. 15,194

AFFIDAVIT OF DAVID RAWLINS

COUNTY OF MIDLAND)
) ss.
STATE OF TEXAS)

David Rawlins, 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 ("Mewbourne"), and I am familiar with the geological matters involved in this case
3. I have been previously qualified as an expert petroleum geologist by the Division.
4. The geological plats attached hereto show the following:
 - (a) Attachment A is a combination structure/gross isopach map of the Second Bone Spring sand. It shows the sand trending from northwest to southeast across the proposed location. The regional structure trends north-south and dips to the east. Production from 2nd Bone Spring horizontal wells occur updip, downdip, and along strike of the proposed location. A line of cross-section is shown on the map.
 - (b) Attachment B is a west-to-east cross section. The 2nd Bone Spring Upper Sand averages 30 feet thick. The pay is continuous across the well unit.
5. I conclude from the maps that the project area is justified from a geologic standpoint.
6. Each quarter-quarter section in the project area will contribute more or less equally to production.
7. Attachment C contains information from other Mewbourne wells drilled in this area. All of the wells are laydown wells, and production from the wells is economic. The horizontal wells that offset the proposed location are producing from the 2nd Bone Spring Sand.

Oil Conservation Division
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Exhibit No. 2

8. Attachment D is the proposed horizontal well plan. The well will have approximately 20 completion stages and the fluid volumes will be 1,380,000 gallons. The producing interval of the well will be at orthodox locations.

David Rawlins

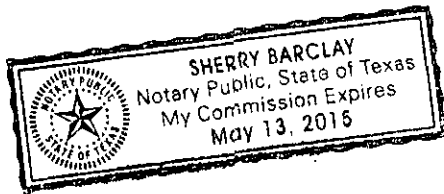
David Rawlins

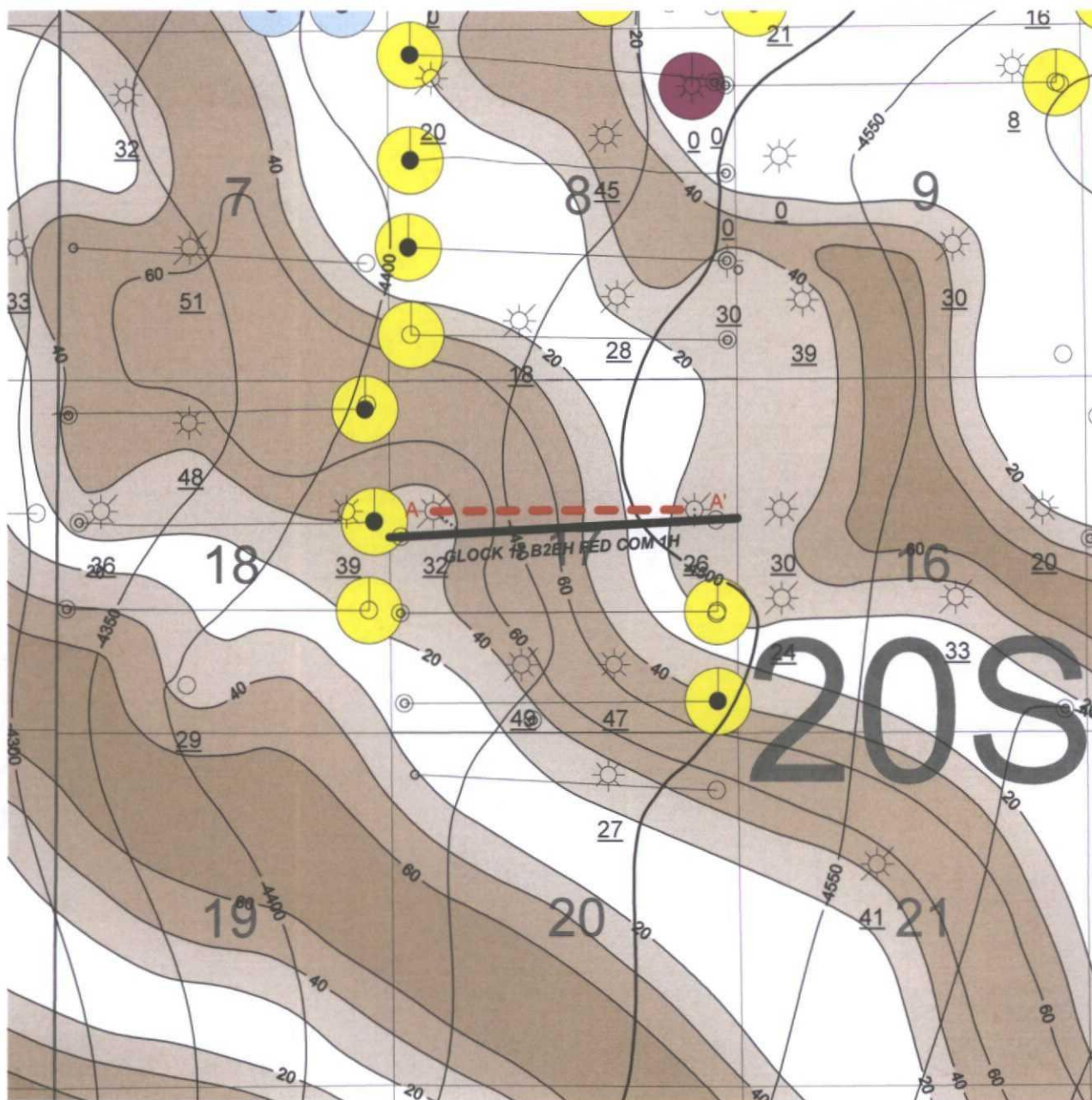
SUBSCRIBED AND SWORN TO before me this 20th day of October, 2014 by David Rawlins.

My Commission Expires:

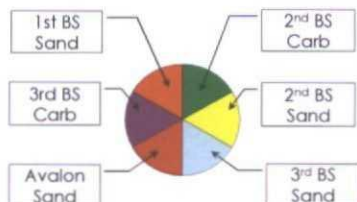
5/13/2015

Sherry Barclay
Notary Public





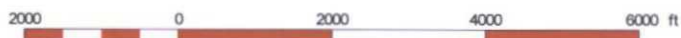
PRODUCING ZONE COLOR CODE



LEGEND

●
32
(Gross ft. Sd)

 Mewbourne Oil Company		
GLOCK 17 B2EH FED COM 1H 2 ND BSPG UPPER SD GROSS SD ISOPACH & STRUCTURE 17-20S-29E EDDY CO. NM		
Author:		Date:
<DMR		3 October, 2014
Scale:		
1 IN = 2500 FT		



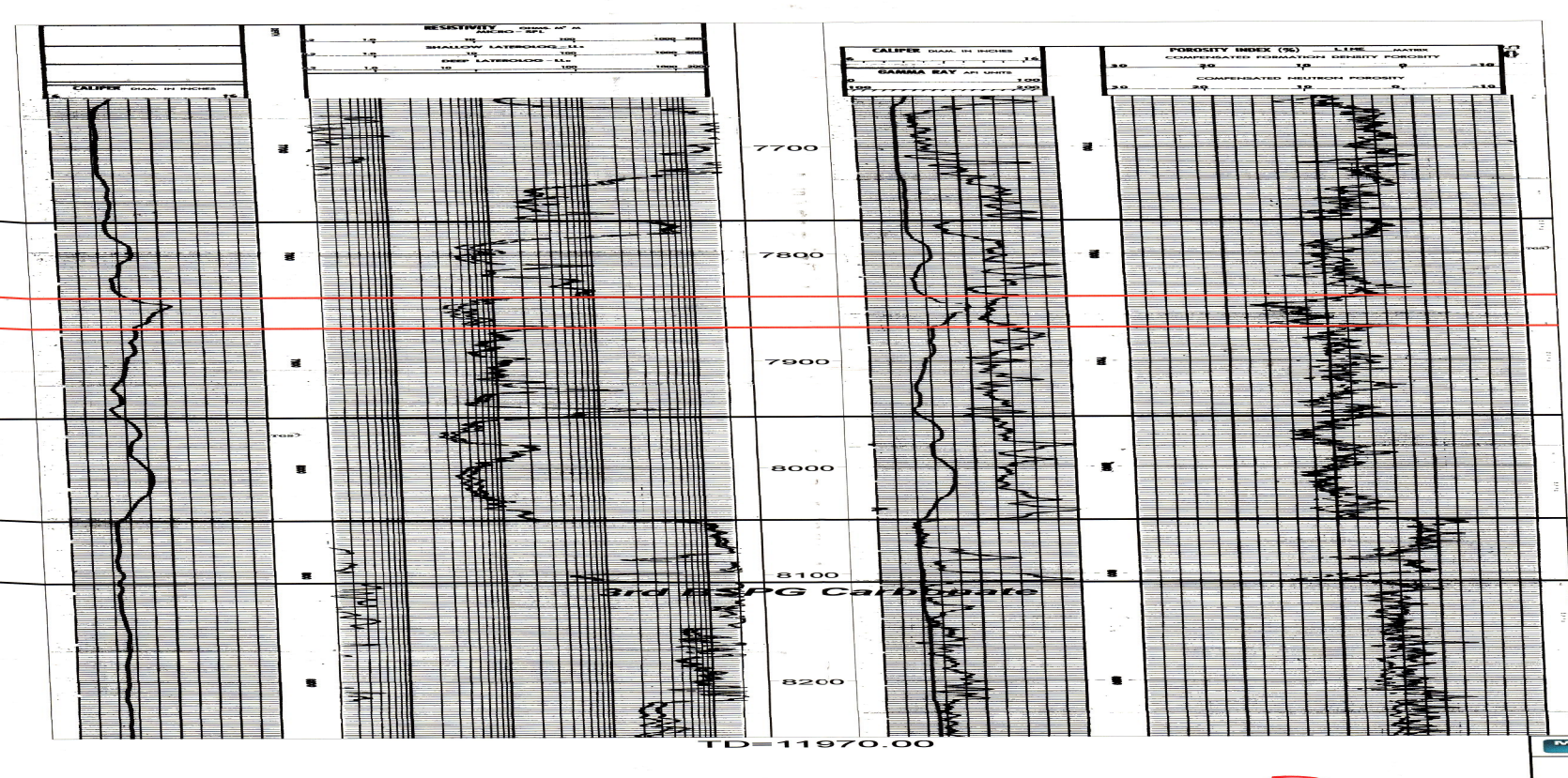
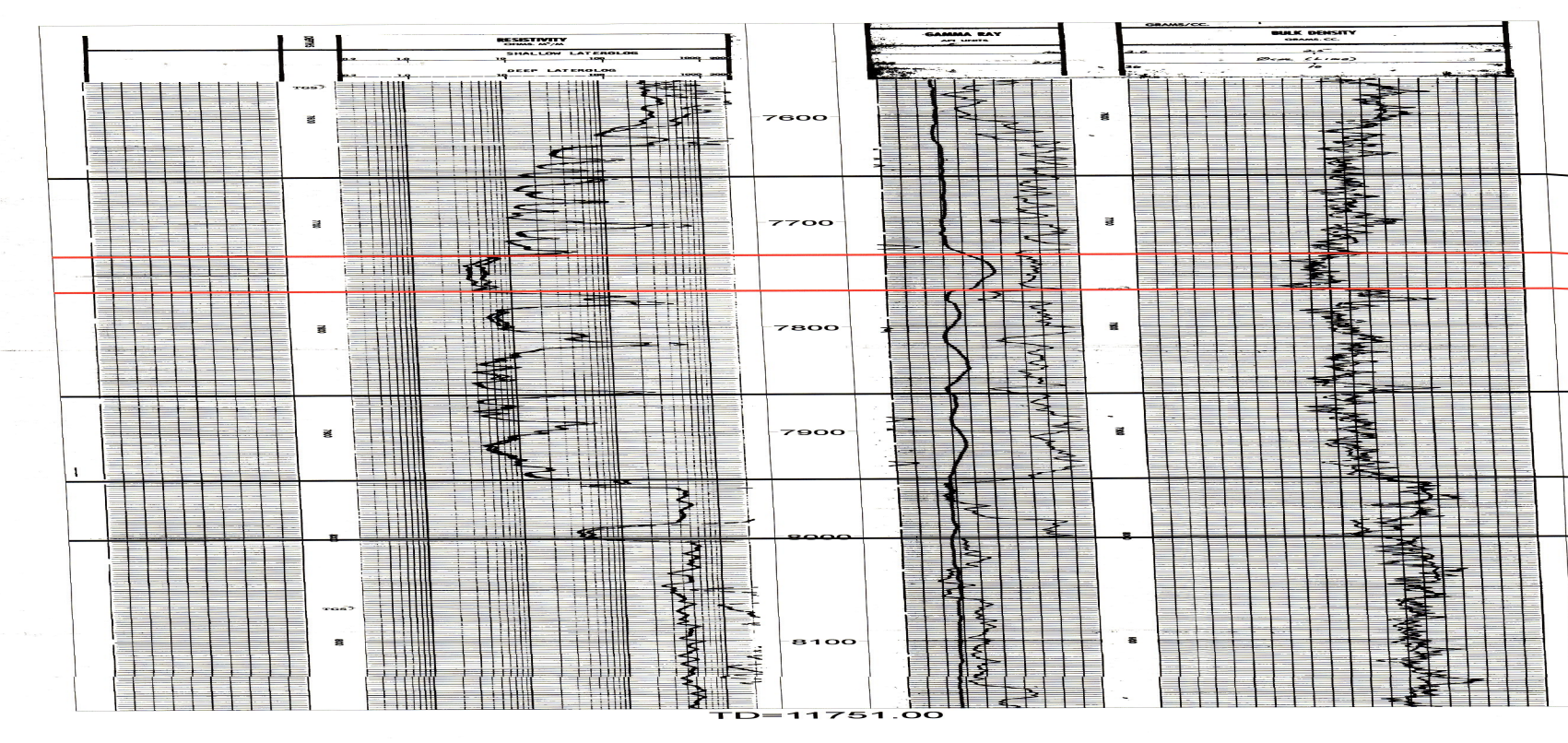
1" = 2500'



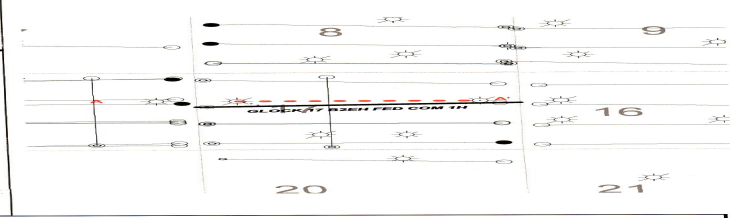
300152006600
TXO PRODUCTION CORPORATION
YATES PETROLEUM BC 3
TWP: 20 S - Range 29 E - Sec. 17
Datum: 3503.00

0.6 miles

300152162500
YATES PETROLEUM CORPORATION
WILLIAMSON BC 3
TWP: 20 S - Range 29 E - Sec. 17
Datum: 3517.00



2nd BSFG Upper Sand
Horizontal Target



Attachment

Mewbourne Oil Company
GLOCK 17, 256H FWD COM 1H
EDDY CO. NM
DMR 10/10/13

MEWBOURNE OIL COMPANY GLOCK 17 B2EH FED COM 1H PRODUCTION DATA TABLE

Well Name	Operator	API	Location	Direction	Vertical/Horizontal	BSPG Completion Date	BSPG Interval	Cum Oil (MBO)	Cum Gas (BCF)	Cum Water (MBW)
THOMPSON 8 FED. COM. #1	MEWBOURNE	300153573400	8A20S/29E		Vertical	6/21/2008	3rd BSPG Carb	7	24	2
THOMPSON 8 FEDERAL #3H	MEWBOURNE	300153929500	8AD/20S/29E	E/W	Horizontal	7/1/2012	2nd BSPG Sd	112	388	171
THOMPSON 8 FEDERAL #2H	MEWBOURNE	300154104000	8HE/20S/29E	E/W	Horizontal	4/20/2013	2nd BSPG Sd	39	153	98
HENRY 8 IL FEDERAL #1H	MEWBOURNE	300154178100	8IL/20S/29E	E/W	Horizontal	2/15/2014	2nd BSPG Sd	27	110	53
HENRY 8 PM FEDERAL #1H	MEWBOURNE	300154195500	8PM/20S/29E	E/W	Horizontal	5/14/2014	2nd BSPG Sd	39	107	105
PERAZZI 9 DA FEDERAL #1H	MEWBOURNE	300154209000	9DA/20S/29E	E/W	Horizontal	6/10/2014	2nd BSPG Sd	67	147	38
GLOCK 17 LI FEDERAL #1H	MEWBOURNE	300154211500	17LI/20S/29E	E/W	Horizontal	5/28/2014	2nd BSPG Sd	29	70	26
GLOCK 17 MP FEDERAL #1H	MEWBOURNE	300154141700	17MP/20S/29E	E/W	Horizontal	11/24/2013	2nd BSPG Sd	51	78	98
DERRINGER 18 DA FEDERAL #1H	MEWBOURNE	300154143100	18DA/20S/29E	E/W	Horizontal	9/4/2013	2nd BSPG Sd	39	212	97
DERRINGER 18 FED. COM. #2H	MEWBOURNE	300153975800	18EH/20S/29E	E/W	Horizontal	1/23/2013	2nd BSPG Sd	64	150	114
DERRINGER 18 LI FED #1H	MEWBOURNE	300154195100	18LI/20S/29E	E/W	Horizontal	7/12/2014	2nd BSPG Sd	36	85	47

Attachment

2



COMPANY: Mewbourne Oil Company
 WELL: Glock 17 B2EH Federal #1H
 COUNTY: Eddy County, New Mexico
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson #41

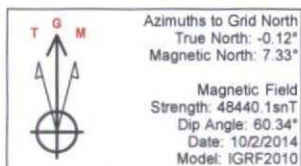


OFFICE: 936.582.7296

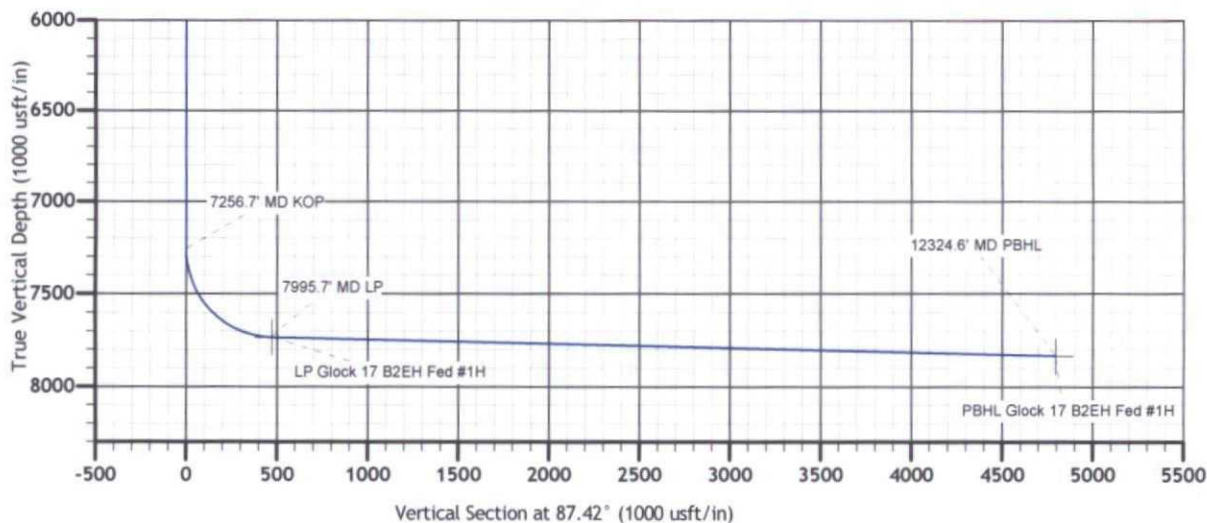
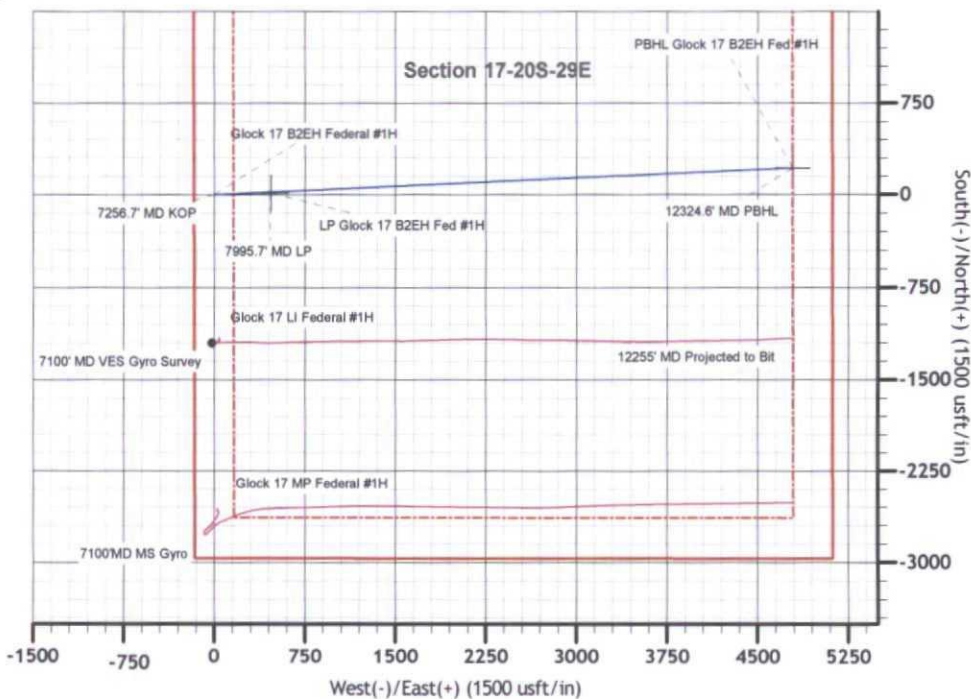
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.33°

GEODETIC ZONE: New Mexico East 3001						
3274 + 20 @ 3294.0usft (Patterson #41)						
GROUND ELEVATION: 3274.0						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	572707.50	570420.50	32° 34' 27.378 N	104° 6' 17.030 W	

PLAN SECTIONS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSeet
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	7256.7	0.00	0.00	7256.7	0.0	0.0	0.00	0.00	0.0
3	7995.7	88.68	87.42	7734.0	21.0	466.0	12.00	87.42	466.4
4	12324.6	88.68	87.42	7834.0	216.1	4789.4	0.00	0.00	4794.2



Attachment



GLOCK 17 B2EH FED COM 1H

Survey Calculation Program
Mewbourne Oil Company
Glock 17 B2EH Fed Com #1H
Section 17-20S-29E
Eddy County, New Mexico

MD (ft)	Incl. Deg.	Azim. Deg.	TVD (ft)	N-S (ft)	E-W (ft)	VS (ft)	Dogleg (°/100ft)
7275.00	2.20	87.42	7275.00	0.02	0.35	0.35	12.00
7300.00	5.20	87.42	7299.94	0.09	1.96	1.96	12.00
7325.00	8.20	87.42	7324.77	0.22	4.87	4.88	12.00
7350.00	11.20	87.42	7349.41	0.41	9.08	9.09	12.00
7375.00	14.20	87.42	7373.79	0.66	14.57	14.58	12.00
7400.00	17.20	87.42	7397.86	0.96	21.32	21.34	12.00
7425.00	20.20	87.42	7421.54	1.32	29.33	29.36	12.00
7450.00	23.20	87.42	7444.76	1.74	38.56	38.60	12.00
7475.00	26.20	87.42	7467.47	2.21	48.99	49.04	12.00
7500.00	29.20	87.42	7489.61	2.73	60.60	60.66	12.00
7525.00	32.20	87.42	7511.10	3.31	73.34	73.42	12.00
7550.00	35.20	87.42	7531.90	3.93	87.20	87.29	12.00
7575.00	38.20	87.42	7551.94	4.61	102.12	102.23	12.00
7600.00	41.20	87.42	7571.18	5.33	118.07	118.19	12.00
7625.00	44.20	87.42	7589.55	6.09	135.00	135.14	12.00
7650.00	47.20	87.42	7607.01	6.90	152.88	153.03	12.00
7675.00	50.20	87.42	7623.51	7.74	171.63	171.81	12.00
7700.00	53.20	87.42	7639.00	8.63	191.23	191.43	12.00
7725.00	56.20	87.42	7653.45	9.55	211.61	211.83	12.00
7750.00	59.20	87.42	7666.81	10.50	232.72	232.95	12.00
7775.00	62.20	87.42	7679.04	11.48	254.49	254.75	12.00
7800.00	65.20	87.42	7690.12	12.49	276.88	277.16	12.00
7825.00	68.20	87.42	7700.01	13.53	299.81	300.12	12.00
7850.00	71.20	87.42	7708.68	14.58	323.23	323.56	12.00

GLOCK 17 B2EH FED COM 1H

7875.00	74.20	87.42	7716.12	15.66	347.08	347.43	12.00
7900.00	77.20	87.42	7722.29	16.75	371.27	371.65	12.00
7925.00	80.20	87.42	7727.19	17.86	395.76	396.16	12.00
7950.00	83.20	87.42	7730.80	18.97	420.47	420.90	12.00
7975.00	86.20	87.42	7733.11	20.09	445.34	445.79	12.00
7995.67	88.68	87.42	7734.04	21.02	465.97	466.44	12.00
8000.00	88.68	87.42	7734.14	21.22	470.29	470.76	0.00
8100.00	88.68	87.42	7736.45	25.72	570.16	570.74	0.00
8200.00	88.68	87.42	7738.76	30.23	670.03	670.71	0.00
8300.00	88.68	87.42	7741.06	34.74	769.90	770.68	0.00
8400.00	88.68	87.42	7743.37	39.24	869.77	870.66	0.00
8500.00	88.68	87.42	7745.68	43.75	969.64	970.63	0.00
8600.00	88.68	87.42	7747.99	48.25	1069.52	1070.60	0.00
8700.00	88.68	87.42	7750.30	52.76	1169.39	1170.58	0.00
8800.00	88.68	87.42	7752.61	57.27	1269.26	1270.55	0.00
8900.00	88.68	87.42	7754.92	61.77	1369.13	1370.52	0.00
9000.00	88.68	87.42	7757.23	66.28	1469.00	1470.50	0.00
9100.00	88.68	87.42	7759.54	70.78	1568.88	1570.47	0.00
9200.00	88.68	87.42	7761.85	75.29	1668.75	1670.44	0.00
9300.00	88.68	87.42	7764.16	79.80	1768.62	1770.42	0.00
9400.00	88.68	87.42	7766.47	84.30	1868.49	1870.39	0.00
9500.00	88.68	87.42	7768.77	88.81	1968.36	1970.36	0.00
9600.00	88.68	87.42	7771.08	93.31	2068.23	2070.34	0.00
9700.00	88.68	87.42	7773.39	97.82	2168.11	2170.31	0.00
9800.00	88.68	87.42	7775.70	102.33	2267.98	2270.28	0.00
9900.00	88.68	87.42	7778.01	106.83	2367.85	2370.26	0.00
10000.00	88.68	87.42	7780.32	111.34	2467.72	2470.23	0.00
10100.00	88.68	87.42	7782.63	115.84	2567.59	2570.20	0.00
10200.00	88.68	87.42	7784.94	120.35	2667.46	2670.18	0.00
10300.00	88.68	87.42	7787.25	124.86	2767.34	2770.15	0.00
10400.00	88.68	87.42	7789.56	129.36	2867.21	2870.12	0.00
10500.00	88.68	87.42	7791.87	133.87	2967.08	2970.10	0.00
10600.00	88.68	87.42	7794.18	138.37	3066.95	3070.07	0.00
10700.00	88.68	87.42	7796.48	142.88	3166.82	3170.04	0.00

GLOCK 17 B2EH FED COM 1H

10800.00	88.68	87.42	7798.79	147.38	3266.69	3270.02	0.00
10900.00	88.68	87.42	7801.10	151.89	3366.57	3369.99	0.00
11000.00	88.68	87.42	7803.41	156.40	3466.44	3469.96	0.00
11100.00	88.68	87.42	7805.72	160.90	3566.31	3569.94	0.00
11200.00	88.68	87.42	7808.03	165.41	3666.18	3669.91	0.00
11300.00	88.68	87.42	7810.34	169.91	3766.05	3769.88	0.00
11400.00	88.68	87.42	7812.65	174.42	3865.93	3869.86	0.00
11500.00	88.68	87.42	7814.96	178.93	3965.80	3969.83	0.00
11600.00	88.68	87.42	7817.27	183.43	4065.67	4069.80	0.00
11700.00	88.68	87.42	7819.58	187.94	4165.54	4169.78	0.00
11800.00	88.68	87.42	7821.89	192.44	4265.41	4269.75	0.00
11900.00	88.68	87.42	7824.19	196.95	4365.28	4369.72	0.00
12000.00	88.68	87.42	7826.50	201.46	4465.16	4469.70	0.00
12100.00	88.68	87.42	7828.81	205.96	4565.03	4569.67	0.00
12200.00	88.68	87.42	7831.12	210.47	4664.90	4669.64	0.00
12300.00	88.68	87.42	7833.43	214.97	4764.77	4769.62	0.00
12324.63	88.68	87.42	7834.00	216.08	4789.37	4794.24	0.00