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. 15,298**

VERIFIED STATEMENT OF JASON LODGE

COUNTY OF MIDLAND)
) 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 ("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/net isopach map of the target interval in the Second Bone Spring sand. It shows other Bone Spring producers in the immediate area, and shows the location of cross section line A-A', explained in attachment B. The proposed horizontal well is highlighted in blue.

(b) Attachment B is a west-to-east cross section. The horizontal target is notated on each log. 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. There is no faulting or other geologic impediment which will affect the drilling of the subject well.

8. The producing interval of the well will be at orthodox locations.

Oil Conservation Division
Case No. _____
Exhibit No. 2

9. Attachment C contains information from other wells drilled in this area. There are both standup and laydown wells in the area that have shown positive results, but Mewbourne prefers to drill standup wells for land reasons.

10. Attachment D is the proposed horizontal well plan. The well will have approximately 30 completion stages using approximately 10,000,000 gallons of fluid and 12,000,000 pounds of sand.

VERIFICATION

STATE OF TEXAS)
) ss.
COUNTY OF MIDLAND)

Jason Lodge, being duly sworn upon his oath, deposes and states that: He is a geologist for Mewbourne Oil Company; he is authorized to make this verification on its behalf; he has read the foregoing statement, and knows the contents thereof; and the same is true and correct to the best of his knowledge, information, and belief.

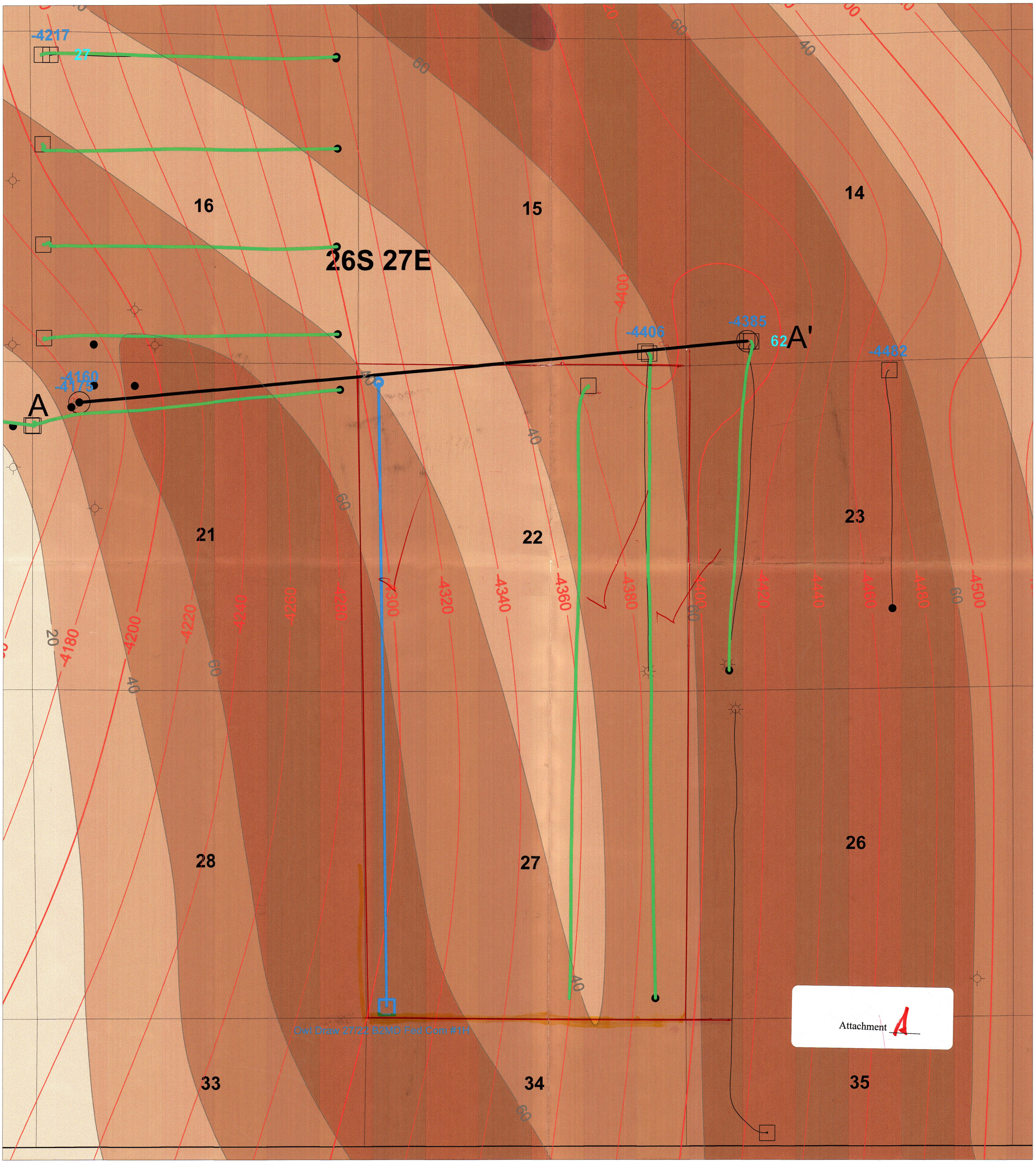
Jason Lodge

SUBSCRIBED AND SWORN TO before me this 27th day of April, 2015 by Jason Lodge.

My Commission Expires: 1-19-2016

Glenda Barnett
Notary Public

GLENDA BARNETT
MY COMMISSION EXPIRES
January 19, 2016



1 inch = 1000 feet

1350 0 1350 2700 4050 ft

Bone Spring Producer

Subsea

2nd BSPG C Porosity GRT 10%

N

Mewbourne Oil Company

Attachment A

Owl Draw 27/22 B2MD Fed Com #1H Base Map

Top of 2nd BSPG C Structure; 2nd BSPG C Net Isopach

Author: J. Lodge		Date: April 27, 2015
	Scale: 1 in = 1000 ft.	

A

A'

300150115900

YATES PETROLEUM CORP
WELCH `ABV` FEDERAL 1
660 FNL/760 FWL
TWP: 26 S - Range: 27 E - Sec. 21
Reference=KB
Datum=3262.00

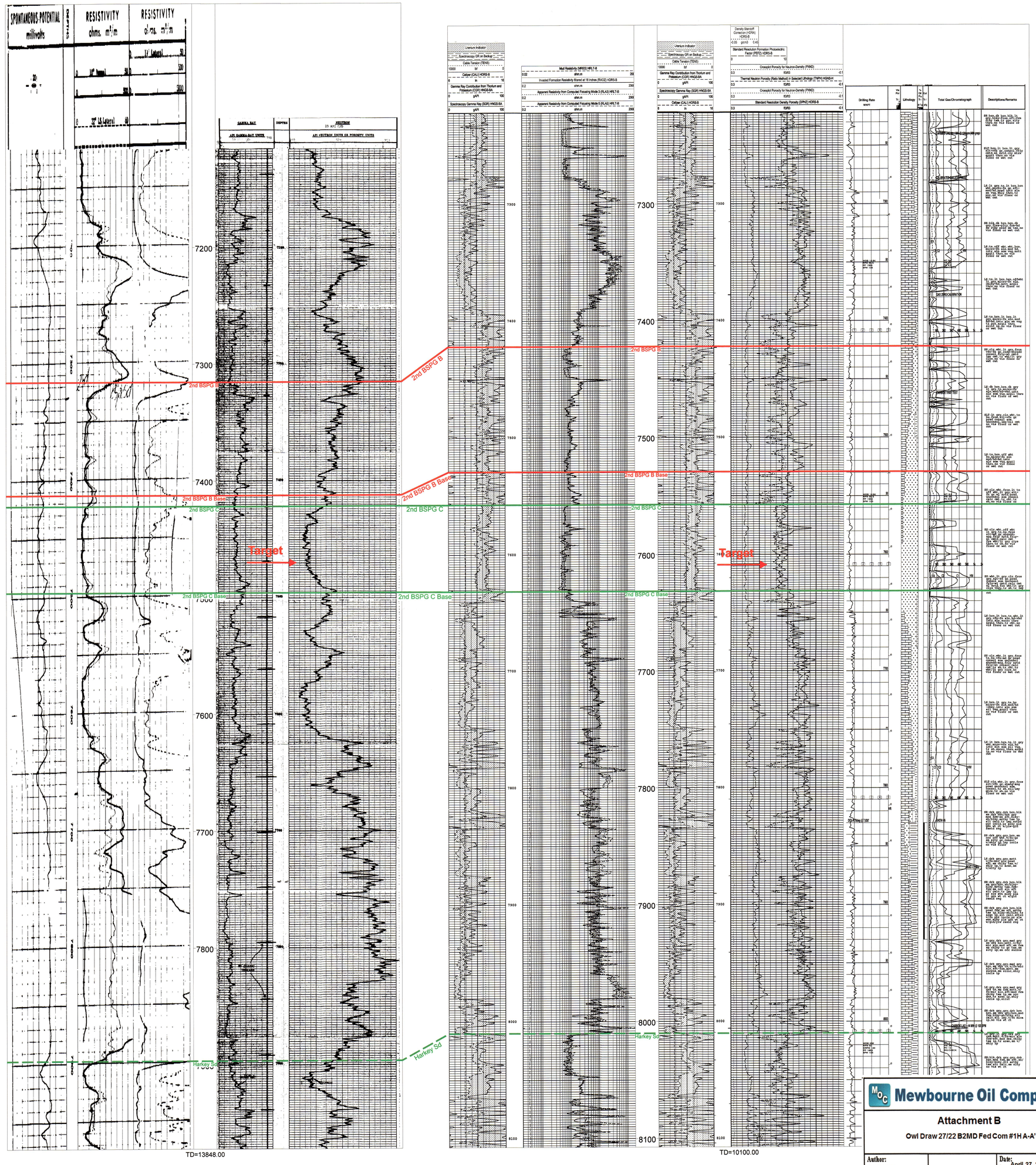
21D

10886 ft

300154144801

MOC
OWL DRAW 23 DM FED COM 1H
375 FSL 990 FWL
TWP: - Range: - Sec.
Reference=KB
Datum=3172.00

14M



Mewbourne Oil Company

Attachment B

Owl Draw 27/22 B2MD Fed Com #1H A-A'

Author: J. Lodge		Date: April 27, 2015
	Scale: 2.5 in = 100 ft.	

Attachment B

Owl Draw 27/22 B2MD Fed Com #1H Production Table

4/27/2015

2nd Bone Spring Sand Production

Well Name	Well ID	Surface Location	PBHL	Operator	Vert/Horiz	Cum Oil (MBO)	Cum Water (MBW)	Cum Gas (MMCF)	First Production
Cluster State Com #2H	16DA	380 FNL & 190 FWL T26S - R27E, Sec. 16	380 FNL & 330 FEL T26S - R27E, Sec. 16	Concho	H	108	170	442	May-13
Cluster State Com #3H	16EH	1830 FNL & 190 FWL T26S - R27E, Sec. 16	1923 FNL & 330 FEL T26S - R27E, Sec. 16	Concho	H	103	169	628	September-12
Cluster State Com #4H	16LI	1887 FSL & 190 FWL T26S - R27E, Sec. 16	1840 FSL & 351 FEL T26S - R27E, Sec. 16	Concho	H	99	126	586	February-13
Cluster State Com #5H	16MP	380 FSL & 190 FWL T26S - R27E, Sec. 16	428 FSL & 339 FEL T26S - R27E, Sec. 16	Concho	H	124	139	509	May-13
Blast BLA Fed #3H	21DA	1040 FNL & 13 FWL T26S - R27E, Sec. 21	386 FNL & 299 FEL T26S - R27E, Sec. 21	Yates	H	46	47	97	December-14
Owl Draw 22/27 B2AP Fed Com #1H	22/27AP	200 FSL & 600 FEL T26S - R27E, Sec. 15	336 FSL & 572 FEL T26S - R27E, Sec. 27	Mewbourne	H	138	140	686	October-14
Owl Draw 23 DM Fed Com #2H	23DM	370 FSL & 1055 FWL T26S - R27E, Sec. 14	334 FSL & 661 FWL T26S - R27E, Sec. 23	Mewbourne	H	65	92	431	February-14

Attachment C

Mewbourne Oil Company

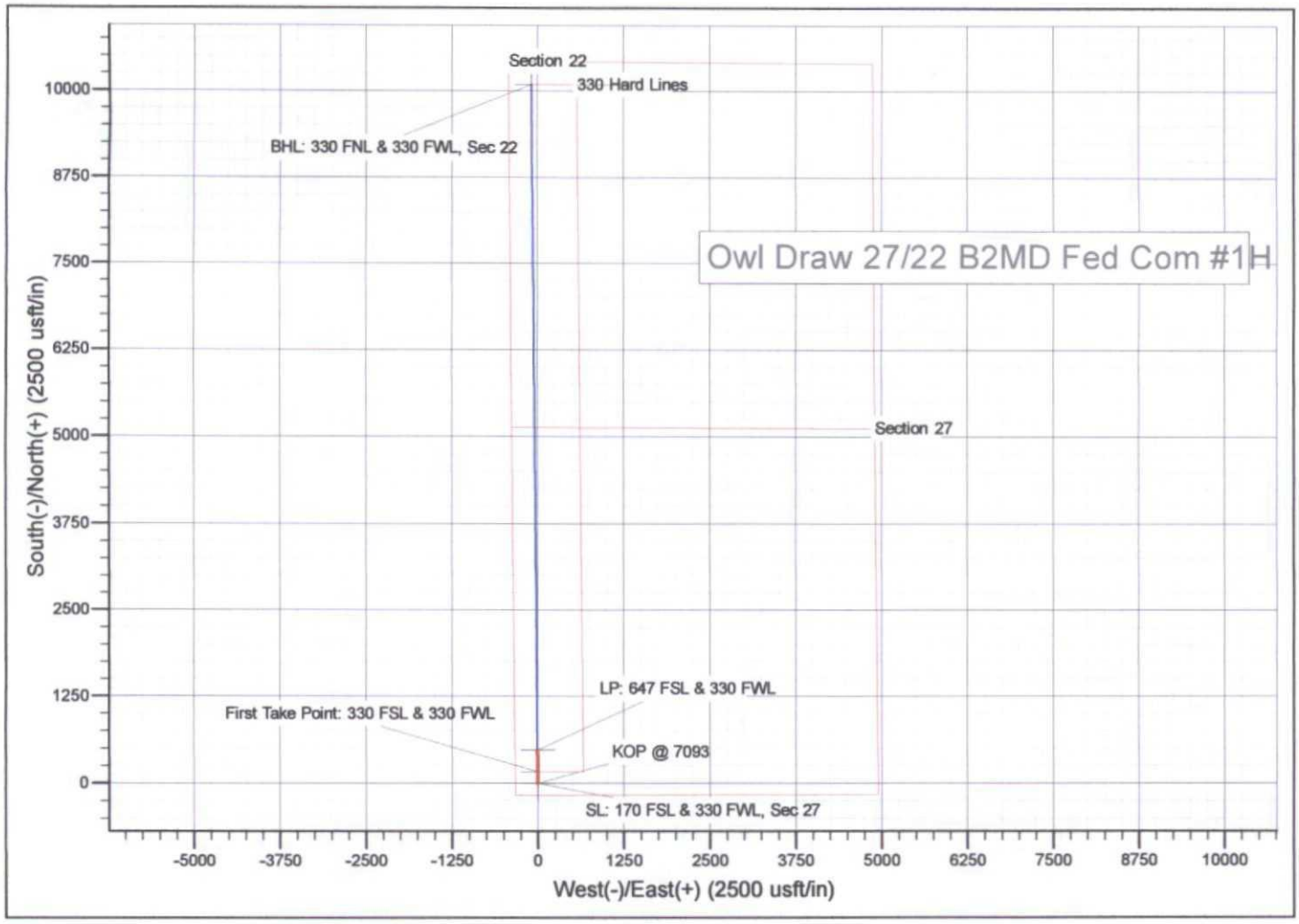
Eddy County, New Mexico
Owl Draw 27/22 B2MD Fed Com #1H
Sec 27, T26S, R27E
SL: 170' FSL & 330' FWL, Sec 27
BHL: 330' FNL & 330' FWL, Sec 22

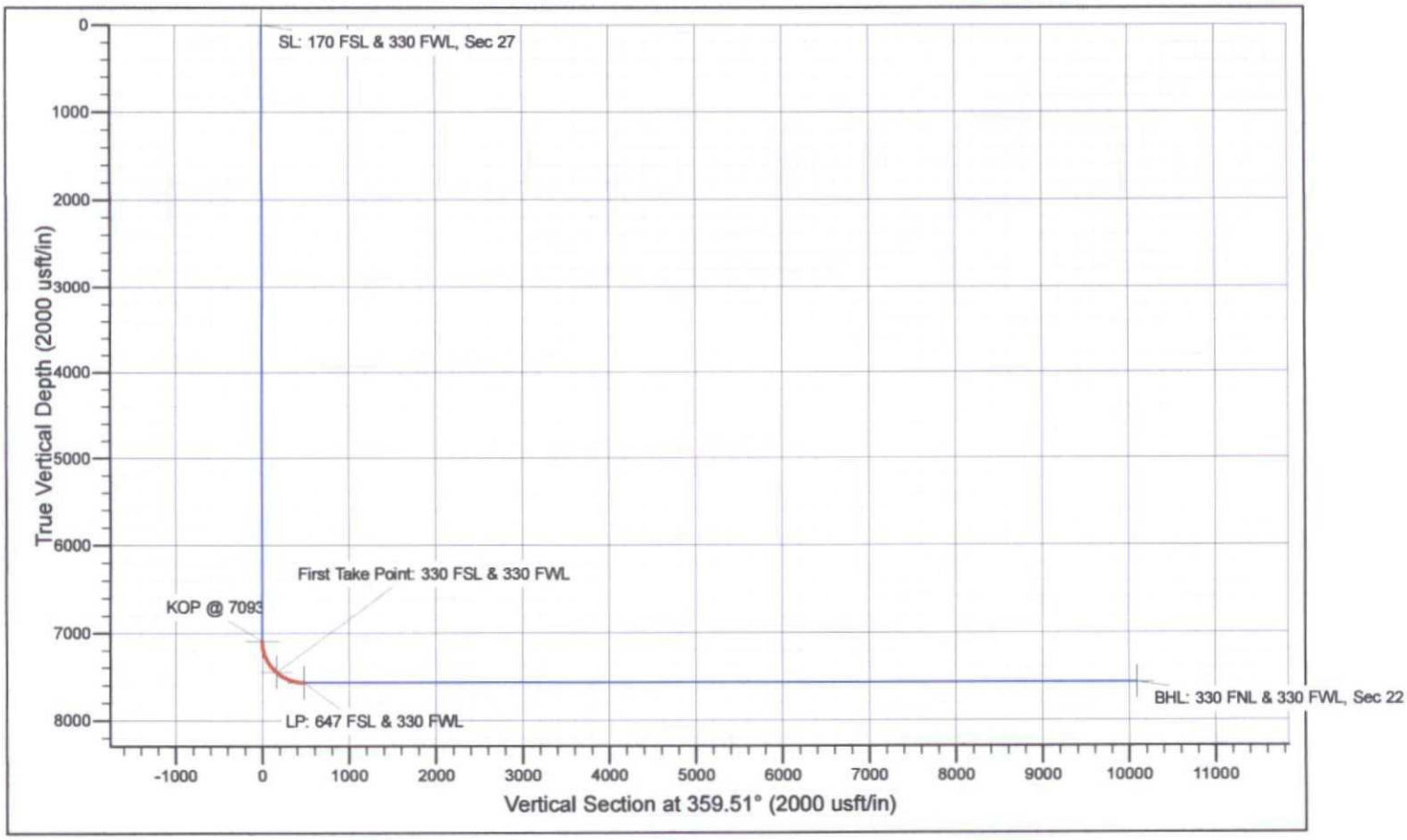
Plan: Design #1

Standard Planning Report

15 January, 2015

Attachment D


Section 22
330 Hard Lines
BHL: 330 FNL & 330 FWL, Sec 22
Owl Draw 27/22 B2MD Fed Com #1H
Section 27
LP: 647 FSL & 330 FWL
First Take Point: 330 FSL & 330 FWL
KOP @ 7093
SL: 170 FSL & 330 FWL, Sec 27
South(-)/North(+) (2500 usft/in)
West(-)/East(+) (2500 usft/in)
10000
8750
7500
6250
5000
3750
2500
1250
0
-5000
-3750
-2500
-1250
0
1250
2500
3750
5000
6250
7500
8750
10000


SL: 170 FSL & 330 FWL, Sec 27
First Take Point: 330 FSL & 330 FWL
KOP @ 7093
LP: 647 FSL & 330 FWL
BHL: 330 FNL & 330 FWL, Sec 22
True Vertical Depth (2000 usft/in)
Vertical Section at 359.51° (2000 usft/in)
0
1000
2000
3000
4000
5000
6000
7000
8000
-1000
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
11000

Database:	Hobbs	***Local Co-ordinate Reference:***	Site Owl Draw 27/22 B2MD Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3195.0usft (Original Well Elev)
Project:	Eddy County, New Mexico	**MD Reference:**	WELL @ 3195.0usft (Original Well Elev)
Site:	Owl Draw 27/22 B2MD Fed Com #1H	**North Reference:**	Grid
Well:	Sec 27, T26S, R27E	***Survey Calculation Method:***	Minimum Curvature
Wellbore:	BHL: 330' FNL & 330' FWL, Sec 22		
Design:	Design #1		

Project Eddy County, New Mexico

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site Owl Draw 27/22 B2MD Fed Com #1H

Site Position:		**Northing:**	365,989.90 usft	**Latitude:**	32° 0' 22.078 N
From:	Map	**Easting:**	546,071.90 usft	**Longitude:**	104° 11' 4.927 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.08 °

Well *Sec 27, T26S, R27E*

Well Position	**+N/-S**	0.0 usft	**Northing:**	365,989.90 usft	**Latitude:**	32° 0' 22.078 N
	+E/-W	0.0 usft	**Easting:**	546,071.90 usft	**Longitude:**	104° 11' 4.927 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	3,195.0 usft	**Ground Level:**	3,175.0 usft

Wellbore BHL: 330' FNL & 330' FWL, Sec 22

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF200510	12/31/2009	8.01	59.93	48,593

Design Design #1

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**
	0.0	0.0	0.0	359.51

Plan Sections

Measured Depth (usft)	**Inclination (°)**	**Azimuth (°)**	**Vertical Depth (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Dogleg Rate (°/100usft)**	**Build Rate (°/100usft)**	**Turn Rate (°/100usft)**	**TFO (°)**	**Target**
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,092.5	0.00	0.00	7,092.5	0.0	0.0	0.00	0.00	0.00	0.00	
7,842.6	90.00	359.51	7,570.0	477.5	-4.1	12.00	12.00	0.00	-0.49	
17,457.8	90.00	359.51	7,570.0	10,092.4	-86.0	0.00	0.00	0.00	0.00	BHL: 330 FNL & 330 I

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Owl Draw 27/22 B2MD Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3195.0usft (Original Well Elev)
Project:	Eddy County, New Mexico	**MD Reference:**	WELL @ 3195.0usft (Original Well Elev)
Site:	Owl Draw 27/22 B2MD Fed Com #1H	**North Reference:**	Grid
Well:	Sec 27, T26S, R27E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 330' FNL & 330' FWL, Sec 22		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SL: 170 FSL & 330 FWL, Sec 27									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00

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Wellbore:	BHL: 330' FNL & 330' FWL, Sec 22		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,092.5	0.00	0.00	7,092.5	0.0	0.0	0.0	0.00	0.00	0.00
KOP @ 7093									
7,100.0	0.90	359.51	7,100.0	0.1	0.0	0.1	12.00	12.00	0.00
7,200.0	12.90	359.51	7,199.1	12.0	-0.1	12.0	12.00	12.00	0.00
7,300.0	24.90	359.51	7,293.5	44.4	-0.4	44.4	12.00	12.00	0.00
7,400.0	36.90	359.51	7,379.2	95.6	-0.8	95.6	12.00	12.00	0.00
7,495.3	48.33	359.51	7,449.2	160.0	-1.4	160.0	12.00	12.00	0.00
First Take Point: 330 FSL & 330 FWL									
7,500.0	48.90	359.51	7,452.3	163.6	-1.4	163.6	12.00	12.00	0.00
7,600.0	60.90	359.51	7,509.7	245.2	-2.1	245.2	12.00	12.00	0.00
7,700.0	72.89	359.51	7,548.9	337.0	-2.9	337.1	12.00	12.00	0.00
7,800.0	84.89	359.51	7,568.1	435.0	-3.7	435.0	12.00	12.00	0.00
7,842.6	90.00	359.51	7,570.0	477.5	-4.1	477.5	11.99	11.99	0.00
LP: 647 FSL & 330 FWL									
7,900.0	90.00	359.51	7,570.0	534.9	-4.6	534.9	0.00	0.00	0.00
8,000.0	90.00	359.51	7,570.0	634.9	-5.4	634.9	0.00	0.00	0.00
8,100.0	90.00	359.51	7,570.0	734.9	-6.3	734.9	0.00	0.00	0.00
8,200.0	90.00	359.51	7,570.0	834.9	-7.1	834.9	0.00	0.00	0.00
8,300.0	90.00	359.51	7,570.0	934.9	-8.0	934.9	0.00	0.00	0.00
8,400.0	90.00	359.51	7,570.0	1,034.9	-8.8	1,034.9	0.00	0.00	0.00
8,500.0	90.00	359.51	7,570.0	1,134.9	-9.7	1,134.9	0.00	0.00	0.00
8,600.0	90.00	359.51	7,570.0	1,234.9	-10.5	1,234.9	0.00	0.00	0.00
8,700.0	90.00	359.51	7,570.0	1,334.9	-11.4	1,334.9	0.00	0.00	0.00
8,800.0	90.00	359.51	7,570.0	1,434.9	-12.2	1,434.9	0.00	0.00	0.00
8,900.0	90.00	359.51	7,570.0	1,534.9	-13.1	1,534.9	0.00	0.00	0.00
9,000.0	90.00	359.51	7,570.0	1,634.9	-13.9	1,634.9	0.00	0.00	0.00
9,100.0	90.00	359.51	7,570.0	1,734.9	-14.8	1,734.9	0.00	0.00	0.00
9,200.0	90.00	359.51	7,570.0	1,834.9	-15.6	1,834.9	0.00	0.00	0.00
9,300.0	90.00	359.51	7,570.0	1,934.9	-16.5	1,934.9	0.00	0.00	0.00
9,400.0	90.00	359.51	7,570.0	2,034.9	-17.3	2,034.9	0.00	0.00	0.00
9,500.0	90.00	359.51	7,570.0	2,134.9	-18.2	2,134.9	0.00	0.00	0.00
9,600.0	90.00	359.51	7,570.0	2,234.9	-19.0	2,234.9	0.00	0.00	0.00
9,700.0	90.00	359.51	7,570.0	2,334.9	-19.9	2,334.9	0.00	0.00	0.00
9,800.0	90.00	359.51	7,570.0	2,434.9	-20.7	2,434.9	0.00	0.00	0.00
9,900.0	90.00	359.51	7,570.0	2,534.9	-21.6	2,534.9	0.00	0.00	0.00

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Owl Draw 27/22 B2MD Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3195.0usft (Original Well Elev)
Project:	Eddy County, New Mexico	**MD Reference:**	WELL @ 3195.0usft (Original Well Elev)
Site:	Owl Draw 27/22 B2MD Fed Com #1H	**North Reference:**	Grid
Well:	Sec 27, T26S, R27E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 330' FNL & 330' FWL, Sec 22		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,000.0	90.00	359.51	7,570.0	2,634.8	-22.5	2,634.9	0.00	0.00	0.00
10,100.0	90.00	359.51	7,570.0	2,734.8	-23.3	2,734.9	0.00	0.00	0.00
10,200.0	90.00	359.51	7,570.0	2,834.8	-24.2	2,834.9	0.00	0.00	0.00
10,300.0	90.00	359.51	7,570.0	2,934.8	-25.0	2,934.9	0.00	0.00	0.00
10,400.0	90.00	359.51	7,570.0	3,034.8	-25.9	3,034.9	0.00	0.00	0.00
10,500.0	90.00	359.51	7,570.0	3,134.8	-26.7	3,134.9	0.00	0.00	0.00
10,600.0	90.00	359.51	7,570.0	3,234.8	-27.6	3,234.9	0.00	0.00	0.00
10,700.0	90.00	359.51	7,570.0	3,334.8	-28.4	3,334.9	0.00	0.00	0.00
10,800.0	90.00	359.51	7,570.0	3,434.8	-29.3	3,434.9	0.00	0.00	0.00
10,900.0	90.00	359.51	7,570.0	3,534.8	-30.1	3,534.9	0.00	0.00	0.00
11,000.0	90.00	359.51	7,570.0	3,634.8	-31.0	3,634.9	0.00	0.00	0.00
11,100.0	90.00	359.51	7,570.0	3,734.8	-31.8	3,734.9	0.00	0.00	0.00
11,200.0	90.00	359.51	7,570.0	3,834.8	-32.7	3,834.9	0.00	0.00	0.00
11,300.0	90.00	359.51	7,570.0	3,934.8	-33.5	3,934.9	0.00	0.00	0.00
11,400.0	90.00	359.51	7,570.0	4,034.8	-34.4	4,034.9	0.00	0.00	0.00
11,500.0	90.00	359.51	7,570.0	4,134.8	-35.2	4,134.9	0.00	0.00	0.00
11,600.0	90.00	359.51	7,570.0	4,234.8	-36.1	4,234.9	0.00	0.00	0.00
11,700.0	90.00	359.51	7,570.0	4,334.8	-36.9	4,334.9	0.00	0.00	0.00
11,800.0	90.00	359.51	7,570.0	4,434.8	-37.8	4,434.9	0.00	0.00	0.00
11,900.0	90.00	359.51	7,570.0	4,534.8	-38.6	4,534.9	0.00	0.00	0.00
12,000.0	90.00	359.51	7,570.0	4,634.8	-39.5	4,634.9	0.00	0.00	0.00
12,100.0	90.00	359.51	7,570.0	4,734.8	-40.3	4,734.9	0.00	0.00	0.00
12,200.0	90.00	359.51	7,570.0	4,834.8	-41.2	4,834.9	0.00	0.00	0.00
12,300.0	90.00	359.51	7,570.0	4,934.8	-42.1	4,934.9	0.00	0.00	0.00
12,400.0	90.00	359.51	7,570.0	5,034.8	-42.9	5,034.9	0.00	0.00	0.00
12,500.0	90.00	359.51	7,570.0	5,134.8	-43.8	5,134.9	0.00	0.00	0.00
12,600.0	90.00	359.51	7,570.0	5,234.8	-44.6	5,234.9	0.00	0.00	0.00
12,700.0	90.00	359.51	7,570.0	5,334.8	-45.5	5,334.9	0.00	0.00	0.00
12,800.0	90.00	359.51	7,570.0	5,434.7	-46.3	5,434.9	0.00	0.00	0.00
12,900.0	90.00	359.51	7,570.0	5,534.7	-47.2	5,534.9	0.00	0.00	0.00
13,000.0	90.00	359.51	7,570.0	5,634.7	-48.0	5,634.9	0.00	0.00	0.00
13,100.0	90.00	359.51	7,570.0	5,734.7	-48.9	5,734.9	0.00	0.00	0.00
13,200.0	90.00	359.51	7,570.0	5,834.7	-49.7	5,834.9	0.00	0.00	0.00
13,300.0	90.00	359.51	7,570.0	5,934.7	-50.6	5,934.9	0.00	0.00	0.00
13,400.0	90.00	359.51	7,570.0	6,034.7	-51.4	6,034.9	0.00	0.00	0.00
13,500.0	90.00	359.51	7,570.0	6,134.7	-52.3	6,134.9	0.00	0.00	0.00
13,600.0	90.00	359.51	7,570.0	6,234.7	-53.1	6,234.9	0.00	0.00	0.00
13,700.0	90.00	359.51	7,570.0	6,334.7	-54.0	6,334.9	0.00	0.00	0.00
13,800.0	90.00	359.51	7,570.0	6,434.7	-54.8	6,434.9	0.00	0.00	0.00
13,900.0	90.00	359.51	7,570.0	6,534.7	-55.7	6,534.9	0.00	0.00	0.00
14,000.0	90.00	359.51	7,570.0	6,634.7	-56.5	6,634.9	0.00	0.00	0.00
14,100.0	90.00	359.51	7,570.0	6,734.7	-57.4	6,734.9	0.00	0.00	0.00
14,200.0	90.00	359.51	7,570.0	6,834.7	-58.2	6,834.9	0.00	0.00	0.00
14,300.0	90.00	359.51	7,570.0	6,934.7	-59.1	6,934.9	0.00	0.00	0.00
14,400.0	90.00	359.51	7,570.0	7,034.7	-59.9	7,034.9	0.00	0.00	0.00
14,500.0	90.00	359.51	7,570.0	7,134.7	-60.8	7,134.9	0.00	0.00	0.00
14,600.0	90.00	359.51	7,570.0	7,234.7	-61.6	7,234.9	0.00	0.00	0.00
14,700.0	90.00	359.51	7,570.0	7,334.7	-62.5	7,334.9	0.00	0.00	0.00
14,800.0	90.00	359.51	7,570.0	7,434.7	-63.4	7,434.9	0.00	0.00	0.00
14,900.0	90.00	359.51	7,570.0	7,534.7	-64.2	7,534.9	0.00	0.00	0.00
15,000.0	90.00	359.51	7,570.0	7,634.7	-65.1	7,634.9	0.00	0.00	0.00
15,100.0	90.00	359.51	7,570.0	7,734.7	-65.9	7,734.9	0.00	0.00	0.00
15,200.0	90.00	359.51	7,570.0	7,834.7	-66.8	7,834.9	0.00	0.00	0.00
15,300.0	90.00	359.51	7,570.0	7,934.7	-67.6	7,934.9	0.00	0.00	0.00

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Owl Draw 27/22 B2MD Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3195.0usft (Original Well Elev)
Project:	Eddy County, New Mexico	**MD Reference:**	WELL @ 3195.0usft (Original Well Elev)
Site:	Owl Draw 27/22 B2MD Fed Com #1H	**North Reference:**	Grid
Well:	Sec 27, T26S, R27E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 330' FNL & 330' FWL, Sec 22		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,400.0	90.00	359.51	7,570.0	8,034.7	-68.5	8,034.9	0.00	0.00	0.00
15,500.0	90.00	359.51	7,570.0	8,134.6	-69.3	8,134.9	0.00	0.00	0.00
15,600.0	90.00	359.51	7,570.0	8,234.6	-70.2	8,234.9	0.00	0.00	0.00
15,700.0	90.00	359.51	7,570.0	8,334.6	-71.0	8,334.9	0.00	0.00	0.00
15,800.0	90.00	359.51	7,570.0	8,434.6	-71.9	8,434.9	0.00	0.00	0.00
15,900.0	90.00	359.51	7,570.0	8,534.6	-72.7	8,534.9	0.00	0.00	0.00
16,000.0	90.00	359.51	7,570.0	8,634.6	-73.6	8,634.9	0.00	0.00	0.00
16,100.0	90.00	359.51	7,570.0	8,734.6	-74.4	8,734.9	0.00	0.00	0.00
16,200.0	90.00	359.51	7,570.0	8,834.6	-75.3	8,834.9	0.00	0.00	0.00
16,300.0	90.00	359.51	7,570.0	8,934.6	-76.1	8,934.9	0.00	0.00	0.00
16,400.0	90.00	359.51	7,570.0	9,034.6	-77.0	9,034.9	0.00	0.00	0.00
16,500.0	90.00	359.51	7,570.0	9,134.6	-77.8	9,134.9	0.00	0.00	0.00
16,600.0	90.00	359.51	7,570.0	9,234.6	-78.7	9,234.9	0.00	0.00	0.00
16,700.0	90.00	359.51	7,570.0	9,334.6	-79.5	9,334.9	0.00	0.00	0.00
16,800.0	90.00	359.51	7,570.0	9,434.6	-80.4	9,434.9	0.00	0.00	0.00
16,900.0	90.00	359.51	7,570.0	9,534.6	-81.2	9,534.9	0.00	0.00	0.00
17,000.0	90.00	359.51	7,570.0	9,634.6	-82.1	9,634.9	0.00	0.00	0.00
17,100.0	90.00	359.51	7,570.0	9,734.6	-83.0	9,734.9	0.00	0.00	0.00
17,200.0	90.00	359.51	7,570.0	9,834.6	-83.8	9,834.9	0.00	0.00	0.00
17,300.0	90.00	359.51	7,570.0	9,934.6	-84.7	9,934.9	0.00	0.00	0.00
17,400.0	90.00	359.51	7,570.0	10,034.6	-85.5	10,034.9	0.00	0.00	0.00
17,457.8	90.00	359.51	7,570.0	10,092.4	-86.0	10,092.8	0.00	0.00	0.00

BHL: 330 FNL & 330 FWL, Sec 22

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SL: 170 FSL & 330 FWL - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	365,989.90	546,071.90	32° 0' 22.078 N	104° 11' 4.927 W
KOP @ 7093 - plan hits target center - Point	0.00	0.00	7,092.5	0.0	0.0	365,989.90	546,071.90	32° 0' 22.078 N	104° 11' 4.927 W
First Take Point: 330 FSI - plan hits target center - Point	0.00	0.00	7,449.2	160.0	-1.4	366,149.90	546,070.50	32° 0' 23.662 N	104° 11' 4.941 W
LP: 647 FSL & 330 FWL - plan hits target center - Point	0.00	0.00	7,570.0	477.5	-4.1	366,467.40	546,067.80	32° 0' 26.804 N	104° 11' 4.967 W
BHL: 330 FNL & 330 FW - plan hits target center - Point	0.00	0.00	7,570.0	10,092.4	-86.0	376,082.30	545,985.90	32° 2' 1.961 N	104° 11' 5.765 W