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. 20330**

VERIFIED STATEMENT OF CHARLES CROSBY

COUNTY OF MIDLAND)
) ss.
STATE OF TEXAS)

Charles Crosby, 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. I have been qualified by the Division as an expert petroleum geologist.

3. The following geological plats are attached hereto:

(a) Attachment A is a structure map of the Base of the 2nd Bone Spring Sand formation. It shows that structure dips gently to the East-Southeast. It also shows a line of cross-section.

(b) Attachment B is a gross sand isopach of the Lower 2nd Bone Spring Sand, the test zone for the Pavo Frio 29/28 B2JI Federal Com 1H. It shows that the sand across the well unit has a uniform thickness of approximately 90 feet.

(c) Attachment C is a wets-east cross section. The well logs on the cross-section give a representative sample of the 2nd Bone Spring Sand formation in this area. The target zone for the well is the Lower 2nd Bone Spring Sand, and that zone is continuous across the well unit.

4. I conclude from the maps that:

(a) The horizontal spacing unit is justified from a geologic standpoint.

(b) Each quarter-quarter section in the unit will contribute more or less equally to production.

EXHIBIT 4

(c) There is no faulting or other geologic impediment on the area which will affect the drilling of the subject well.

5. Attachment D contains information from other 2nd Bone Spring Sand wells drilled in this area. Production for wells with similar completions and similar time online seems to show a preference for laydown orientation, and the completed wells in the area (recent completions) are apparently commercial.

6. Attachment E is the Survey Calculation Report. The producing interval of the proposed well will be orthodox.

Charles Crosby

VERIFICATION

STATE OF TEXAS)
) ss.
COUNTY OF MIDLAND)

Charles Crosby, 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.

Charles Crosby

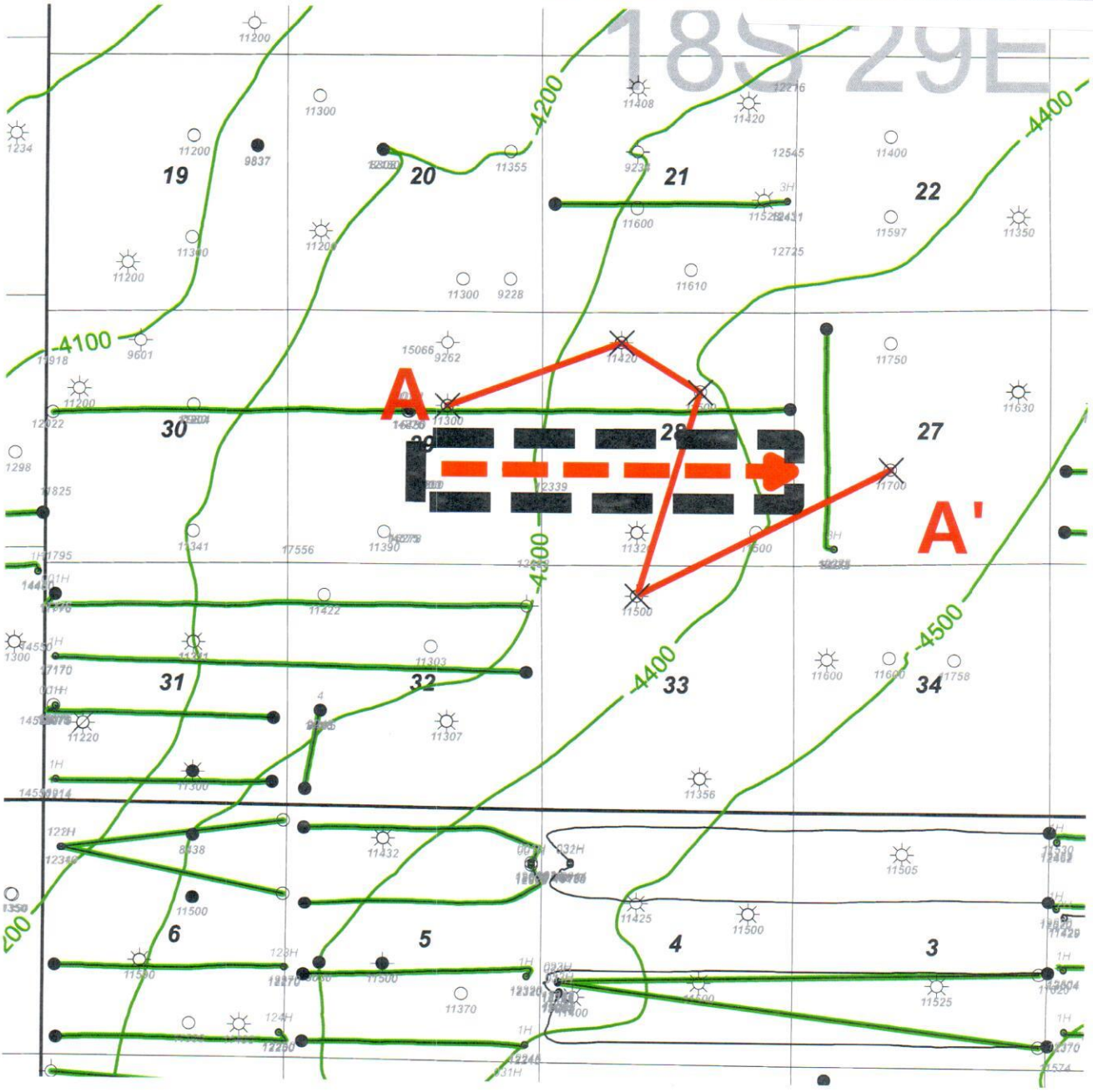
SUBSCRIBED AND SWORN TO before me this 2nd day of April, 2019 by Charles Crosby.

My Commission Expires: January 11, 2022

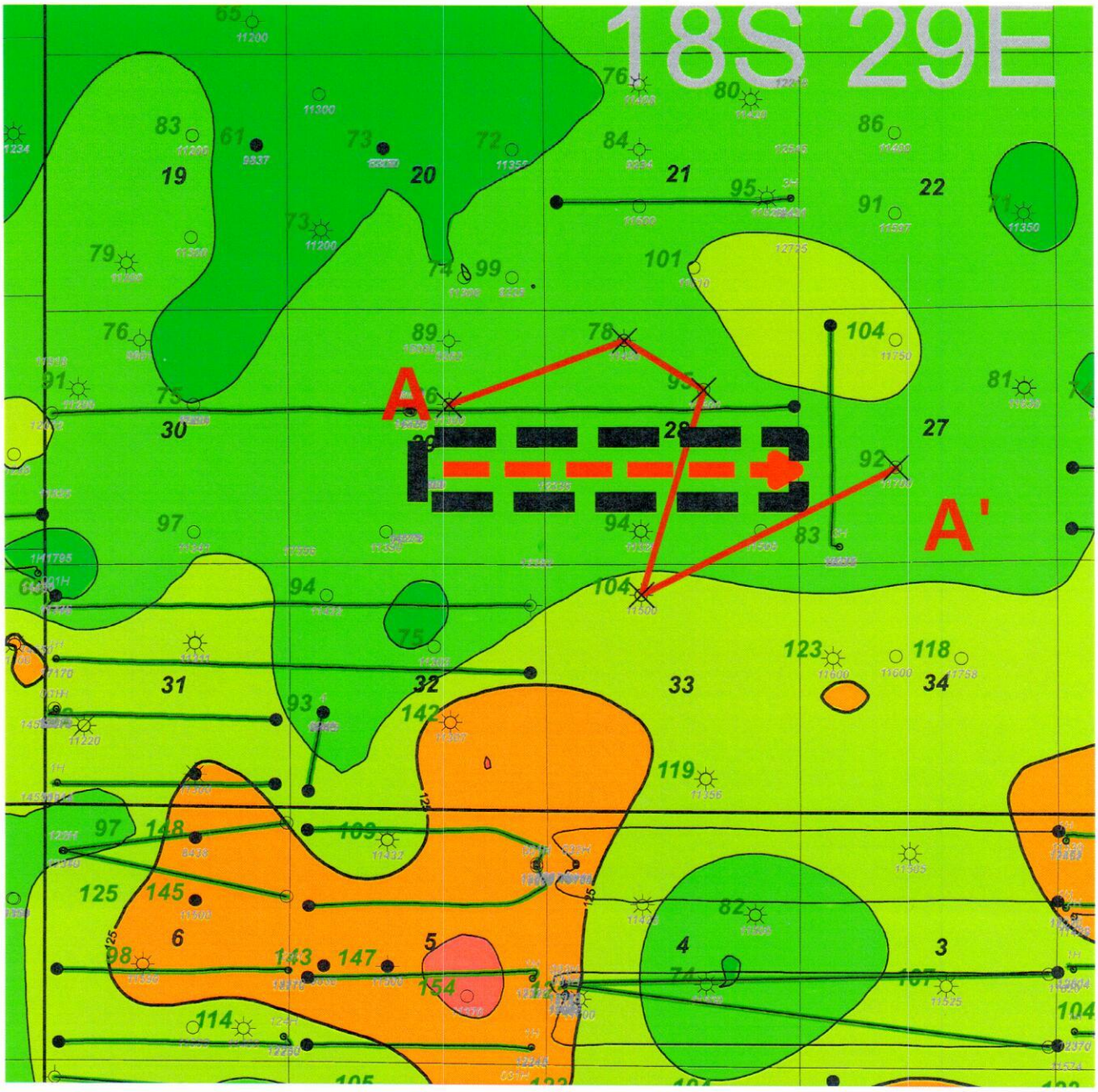
Notary Public

ALEJANDRA KIRKSEY
Notary ID #131406744
My Commission Expires
January 11, 2022

ATTACHMENT A



Mewbourne Oil Company		
Pavo Frio 29/28 B2JI Fed Com 1H Horizontal Activity Map Base 2nd BSPG Sand Structure (C.I. 100')		
4/2/2019	Eddy County	New Mexico
		Geol: C. Crosby



1:38000

1850 0 1850 3700 5550 us ft

2nd BSPG SD Gross Thickness

TD

2nd Bone Spring SD Horizontal

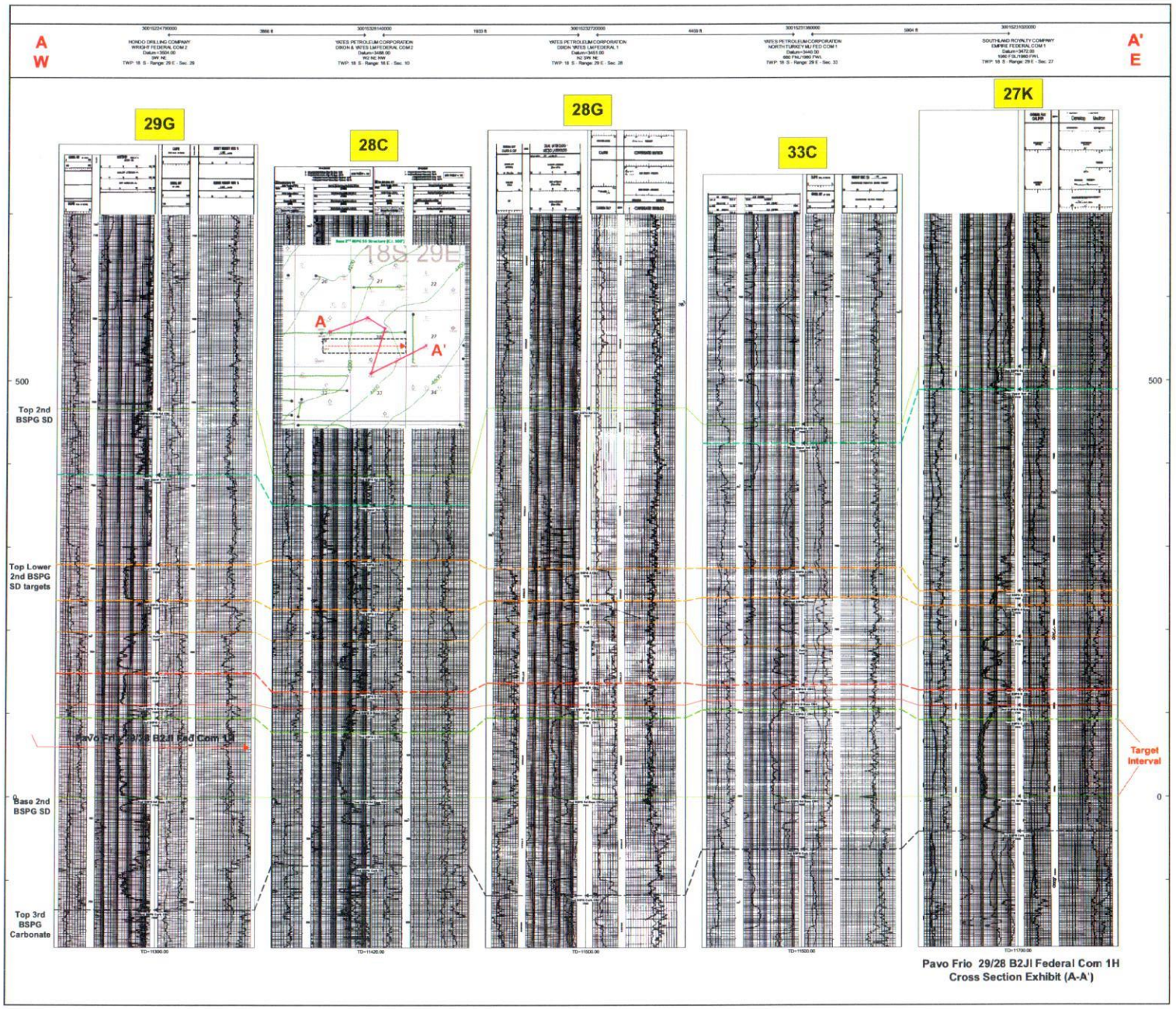
n

Mewbourne Oil Company

Pavo Frio 29/28 B2JI Fed Com 1H
Horizontal Activity Map
Lower 2nd BSPG SD Gross Thickness (C.I. 25')

4/2/2019	Eddy County	New Mexico
		Geol: C. Crosby

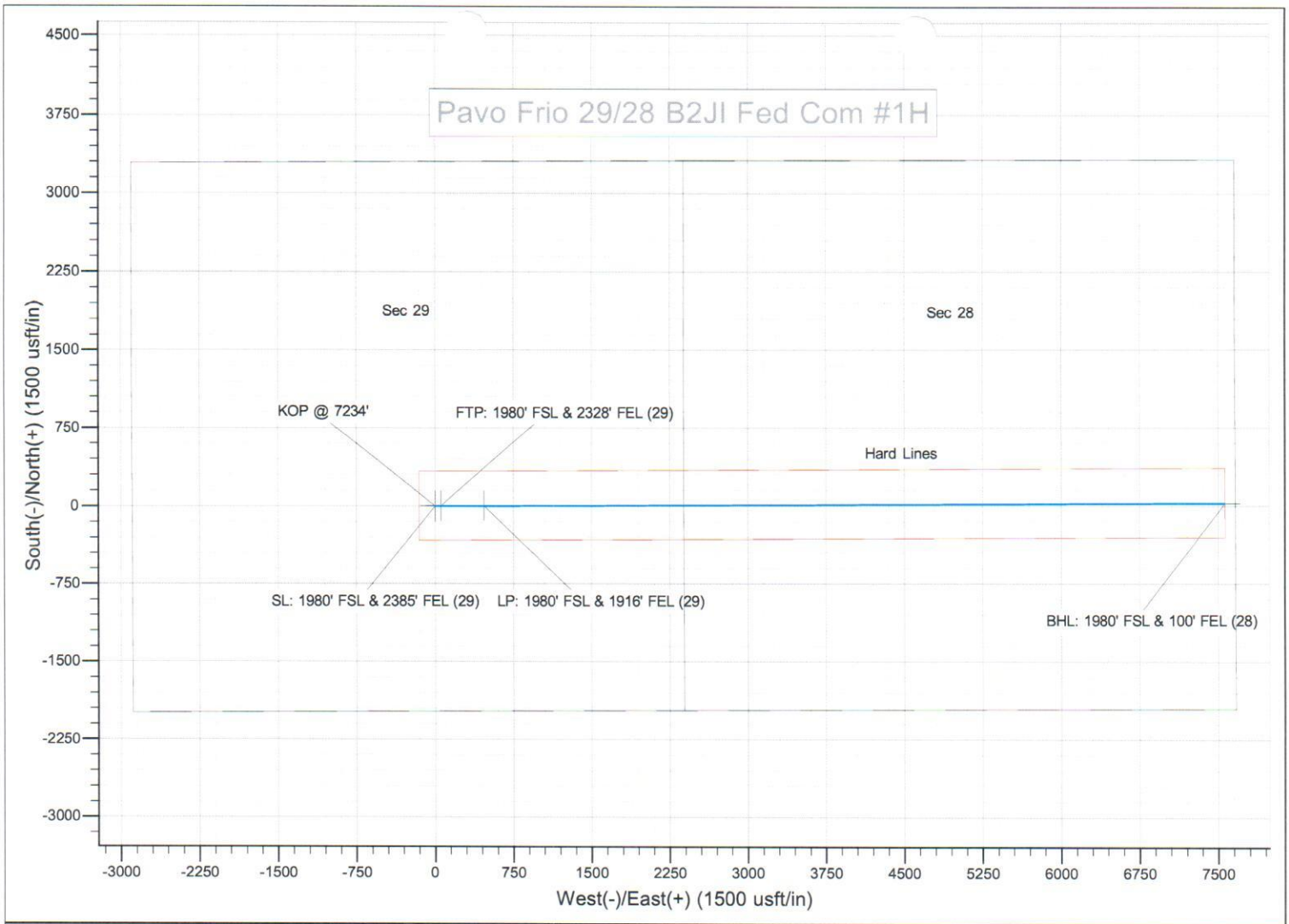
ATTACHMENT B

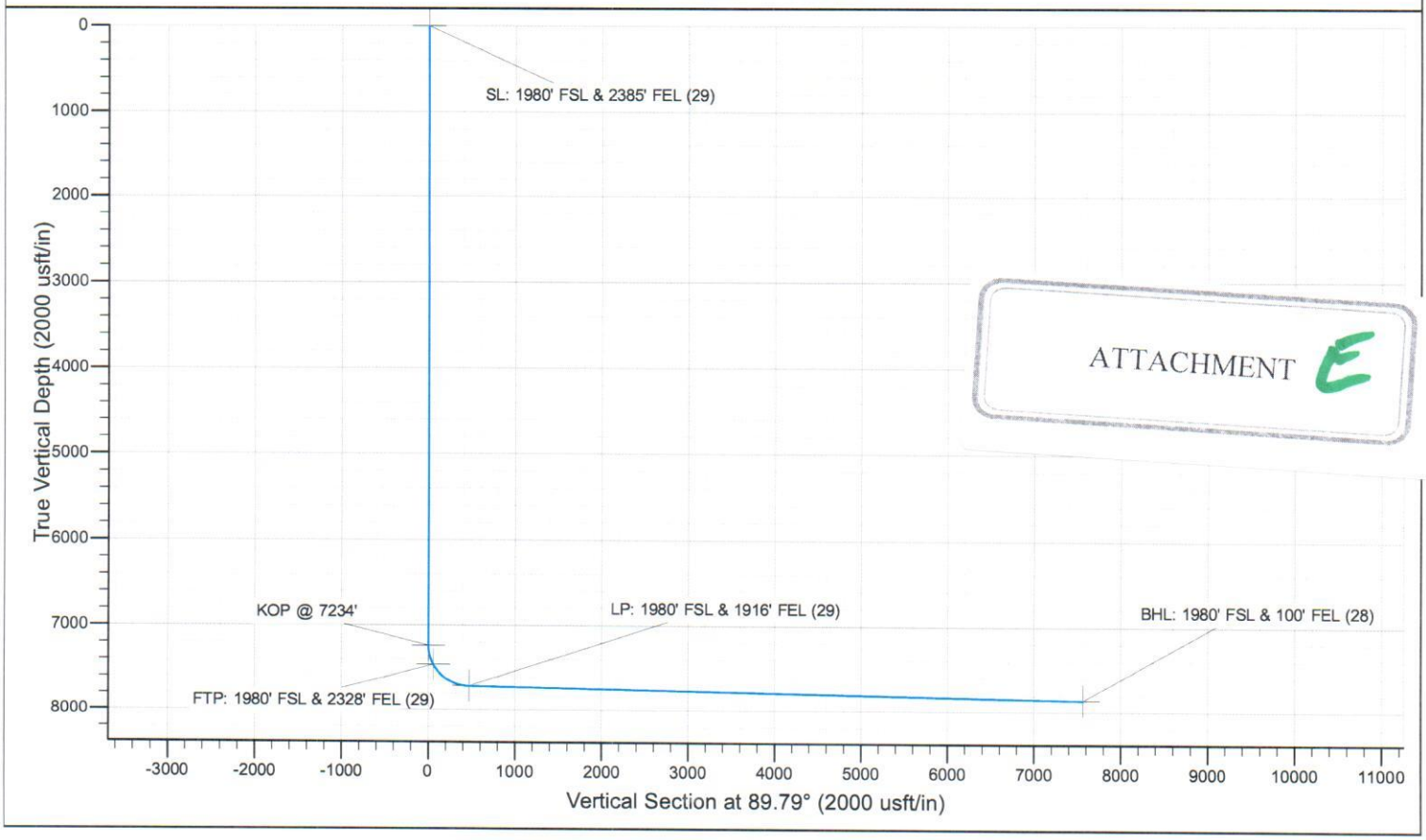


ATTACHMENT C

Pavo Frio Area 2nd BSPG SD Production Table									
Well Name	Operator	API	Location	Completion Date	Cum Oil (Mbo)	Cum Gas (Bcf)	Cum Water (Mbw)	NS/EW	Production Zone
Pamillo State Com 4	Cimarex	3001531497	32L/18S/29E	11/28/2010	53.1	1.7	37.7	NS	Lower 2nd BSPG SD
Empire A Federal Com 3H	Cimarex	3001538659	27M/18S/29E	11/4/2011	24.7	0.07	41.1	NS	Lower 2nd BSPG SD
War Horse Federal Com 3H	Tap Rock	3001541227	21I/18S/29E	5/17/2014	198.3	0.5	210.1	EW	Lower 2nd BSPG SD
Gobbler 5 B2PM State Com 1H	Mewbourne	3001542851	5P/19S/29E	4/27/2015	280.5	0.8	166.4	EW	Lower 2nd BSPG SD
Gobbler 5 B2IL State Com 1H	Mewbourne	3001542954	5I/19S/29E	10/13/2016	166.5	0.4	155.1	EW	Lower 2nd BSPG SD
Wild Turkey 36-35 B2AB State Com 1H	Mewbourne	3001543319	36A/18S/28E	4/2/2017	151.1	0.3	377.1	EW	Lower 2nd BSPG SD
Lajitas BWQ State Com 1H	Concho	3001543390	26O/18S/28E	9/18/2016	136.8	0.3	397.9	EW	Lower 2nd BSPG SD
Pavo Macho 31-32 B2EH Fed Com 1H	Mewbourne	3001543784	31E/18S/29E	1/25/2018	250	0.4	467.2	EW	Lower 2nd BSPG SD
Pavo Macho 31 B2MP Federal 1H	Mewbourne	3001543786	31M/18S/29E	9/9/2016	174.9	0.4	211.9	EW	Lower 2nd BSPG SD
Pavo Macho 31-32 B2DA Fed Com 1H	Mewbourne	3001543787	31D/18S/29E	9/19/2018	69.4	0.06	164.5	EW	Lower 2nd BSPG SD
Pavo Macho 31 B2LI Fed Com 1H	Mewbourne	3001544066	31L/18S/29E	6/2/2017	156.3	0.3	189.5	EW	Lower 2nd BSPG SD
SST 6 State 124H	Matador	3001544324	6P/19S/29E	5/13/2018	131.1	0.3	190.9	EW	Lower 2nd BSPG SD
SSt 6 State 123H	Matador	3001544325	6I/19S/29E	5/25/2018	167.4	0.4	146.6	EW	Lower 2nd BSPG SD
Gobbler 5 B2AD State 1H	Mewbourne	3001544664	5A/19S/29E	7/26/2018	100.5	0.1	87.6	EW	Lower 2nd BSPG SD
Gobbler 5 B2HE State 1H	Mewbourne	3001544665	5H/19S/29E	7/26/2018	134.8	0.3	120.8	EW	Lower 2nd BSPG SD
Turkey Track 4-3 State 23H	Oxy	3001544517	4L/19S/29E	Pending				EW	Lower 2nd BSPG SD
Turkey Track 4-3 State 24H	Oxy	3001544518	4L/19S/28E	Pending				EW	Lower 2nd BSPG SD
SST 6 State Com 121H	Matador	3001545368	6D/19S/29E	Pending				EW	Lower 2nd BSPG SD
SST 6 State Com 122H	Matador	3001545369	6D/19S/29E	Pending				EW	Lower 2nd BSPG SD
Pavo Frio 29-28 B2GH Fed Com 1H	Mewbourne	3001545404	29F/18S/29E	Pending				EW	Lower 2nd BSPG SD
Pavo Frio 29-30 B2FE Fed Com 1H	Mewbourne	3001545405	29F/18S/29E	Pending				EW	Lower 2nd BSPG SD

ATTACHMENT D





ATTACHMENT E

Mewbourne Oil Company

Eddy County, New Mexico NAD 83
Pavo Frio 29/28 B2JI Fed Com #1H
Sec 29, T18S, R29E
SL: 1980' FSL & 2385' FEL (29)
BHL: 1980' FSL & 100' FEL (28)

Plan: Design #1

Standard Planning Report

07 August, 2018

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Pavo Frio 29/28 B2JI Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3490.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3490.0usft (Original Well Elev)
Site:	Pavo Frio 29/28 B2JI Fed Com #1H	**North Reference:**	Grid
Well:	Sec 29, T18S, R29E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 100' FEL (28)		
Design:	Design #1		

Project	Eddy County, New Mexico NAD 83		
Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Pavo Frio 29/28 B2JI Fed Com #1H				
Site Position:		**Northing:**	624,520.00 usft	**Latitude:**	32.7166215
From:	Map	**Easting:**	614,300.00 usft	**Longitude:**	-104.0960979
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.13 °

Well	Sec 29, T18S, R29E					
Well Position	**+N/-S**	0.0 usft	**Northing:**	624,520.00 usft	**Latitude:**	32.7166215
	+E/-W	0.0 usft	**Easting:**	614,300.00 usft	**Longitude:**	-104.0960979
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	3,490.0 usft	**Ground Level:**	3,463.0 usft

Wellbore	BHL: 1980' FSL & 100' FEL (28)			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	8/6/2018	6.98	60.37	48,142

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	89.79	

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	
0.0	0.00	0.00	0.0	0.0	0.0	0.01	0.00	0.00	0.00	
7,234.0	0.00	0.00	7,234.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,234.0	0.00	0.00	7,234.0	0.0	0.0	0.01	0.00	0.00	0.00	KOP @ 7234'
7,975.4	88.85	89.79	7,712.0	1.7	468.5	11.98	11.98	0.00	89.79	
15,073.4	88.85	89.79	7,855.0	28.0	7,565.0	0.00	0.00	0.00	0.00	BHL: 1980' FSL & 10(

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Pavo Frio 29/28 B2JI Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3490.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3490.0usft (Original Well Elev)
Site:	Pavo Frio 29/28 B2JI Fed Com #1H	**North Reference:**	Grid
Well:	Sec 29, T18S, R29E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 100' FEL (28)		
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: 1980' FSL & 2385' FEL (29)									
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

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Pavo Frio 29/28 B2JI Fed Com #1H
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Wellbore:	BHL: 1980' FSL & 100' FEL (28)		
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
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,234.0	0.00	0.00	7,234.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP @ 7234'									
7,300.0	7.91	89.79	7,299.8	0.0	4.5	4.5	11.98	11.98	0.00
7,400.0	19.89	89.79	7,396.7	0.1	28.5	28.5	11.98	11.98	0.00
7,469.9	28.27	89.79	7,460.4	0.2	57.0	57.0	11.98	11.98	0.00
FTP: 1980' FSL & 2328' FEL (29)									
7,500.0	31.88	89.79	7,486.5	0.3	72.1	72.1	11.98	11.98	0.00
7,600.0	43.86	89.79	7,565.3	0.5	133.4	133.4	11.98	11.98	0.00
7,700.0	55.85	89.79	7,629.6	0.8	209.7	209.7	11.98	11.98	0.00
7,800.0	67.83	89.79	7,676.8	1.1	297.7	297.7	11.98	11.98	0.00
7,900.0	79.81	89.79	7,704.6	1.5	393.5	393.5	11.98	11.98	0.00
7,975.4	88.85	89.79	7,712.0	1.7	468.5	468.5	11.98	11.98	0.00
LP: 1980' FSL & 1916' FEL (29)									
8,000.0	88.85	89.79	7,712.5	1.8	493.1	493.1	0.00	0.00	0.00
8,100.0	88.85	89.79	7,714.5	2.2	593.1	593.1	0.00	0.00	0.00
8,200.0	88.85	89.79	7,716.5	2.6	693.1	693.1	0.00	0.00	0.00
8,300.0	88.85	89.79	7,718.5	2.9	793.0	793.0	0.00	0.00	0.00
8,400.0	88.85	89.79	7,720.6	3.3	893.0	893.0	0.00	0.00	0.00
8,500.0	88.85	89.79	7,722.6	3.7	993.0	993.0	0.00	0.00	0.00
8,600.0	88.85	89.79	7,724.6	4.0	1,093.0	1,093.0	0.00	0.00	0.00
8,700.0	88.85	89.79	7,726.6	4.4	1,192.9	1,193.0	0.00	0.00	0.00
8,800.0	88.85	89.79	7,728.6	4.8	1,292.9	1,292.9	0.00	0.00	0.00
8,900.0	88.85	89.79	7,730.6	5.2	1,392.9	1,392.9	0.00	0.00	0.00
9,000.0	88.85	89.79	7,732.6	5.5	1,492.9	1,492.9	0.00	0.00	0.00
9,100.0	88.85	89.79	7,734.7	5.9	1,592.9	1,592.9	0.00	0.00	0.00
9,200.0	88.85	89.79	7,736.7	6.3	1,692.8	1,692.9	0.00	0.00	0.00
9,300.0	88.85	89.79	7,738.7	6.6	1,792.8	1,792.8	0.00	0.00	0.00
9,400.0	88.85	89.79	7,740.7	7.0	1,892.8	1,892.8	0.00	0.00	0.00
9,500.0	88.85	89.79	7,742.7	7.4	1,992.8	1,992.8	0.00	0.00	0.00
9,600.0	88.85	89.79	7,744.7	7.7	2,092.8	2,092.8	0.00	0.00	0.00
9,700.0	88.85	89.79	7,746.7	8.1	2,192.7	2,192.8	0.00	0.00	0.00
9,800.0	88.85	89.79	7,748.8	8.5	2,292.7	2,292.7	0.00	0.00	0.00
9,892.3	88.85	89.79	7,750.6	8.8	2,385.0	2,385.0	0.00	0.00	0.00

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Pavo Frio 29/28 B2JI Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3490.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3490.0usft (Original Well Elev)
Site:	Pavo Frio 29/28 B2JI Fed Com #1H	**North Reference:**	Grid
Well:	Sec 29, T18S, R29E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 100' FEL (28)		
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)
PPP-2: 1980' FSL & 0' FWL (28)									
9,900.0	88.85	89.79	7,750.8	8.9	2,392.7	2,392.7	0.00	0.00	0.00
10,000.0	88.85	89.79	7,752.8	9.2	2,492.7	2,492.7	0.00	0.00	0.00
10,100.0	88.85	89.79	7,754.8	9.6	2,592.7	2,592.7	0.00	0.00	0.00
10,200.0	88.85	89.79	7,756.8	10.0	2,692.6	2,692.7	0.00	0.00	0.00
10,300.0	88.85	89.79	7,758.8	10.3	2,792.6	2,792.6	0.00	0.00	0.00
10,400.0	88.85	89.79	7,760.8	10.7	2,892.6	2,892.6	0.00	0.00	0.00
10,500.0	88.85	89.79	7,762.9	11.1	2,992.6	2,992.6	0.00	0.00	0.00
10,600.0	88.85	89.79	7,764.9	11.4	3,092.6	3,092.6	0.00	0.00	0.00
10,700.0	88.85	89.79	7,766.9	11.8	3,192.5	3,192.6	0.00	0.00	0.00
10,800.0	88.85	89.79	7,768.9	12.2	3,292.5	3,292.5	0.00	0.00	0.00
10,900.0	88.85	89.79	7,770.9	12.6	3,392.5	3,392.5	0.00	0.00	0.00
11,000.0	88.85	89.79	7,772.9	12.9	3,492.5	3,492.5	0.00	0.00	0.00
11,100.0	88.85	89.79	7,775.0	13.3	3,592.4	3,592.5	0.00	0.00	0.00
11,200.0	88.85	89.79	7,777.0	13.7	3,692.4	3,692.5	0.00	0.00	0.00
11,212.6	88.85	89.79	7,777.2	13.7	3,705.0	3,705.0	0.00	0.00	0.00
PPP-3: 1980' FSL & 1320' FWL (28)									
11,300.0	88.85	89.79	7,779.0	14.0	3,792.4	3,792.4	0.00	0.00	0.00
11,400.0	88.85	89.79	7,781.0	14.4	3,892.4	3,892.4	0.00	0.00	0.00
11,500.0	88.85	89.79	7,783.0	14.8	3,992.4	3,992.4	0.00	0.00	0.00
11,600.0	88.85	89.79	7,785.0	15.1	4,092.3	4,092.4	0.00	0.00	0.00
11,700.0	88.85	89.79	7,787.0	15.5	4,192.3	4,192.3	0.00	0.00	0.00
11,800.0	88.85	89.79	7,789.1	15.9	4,292.3	4,292.3	0.00	0.00	0.00
11,900.0	88.85	89.79	7,791.1	16.3	4,392.3	4,392.3	0.00	0.00	0.00
12,000.0	88.85	89.79	7,793.1	16.6	4,492.3	4,492.3	0.00	0.00	0.00
12,100.0	88.85	89.79	7,795.1	17.0	4,592.2	4,592.3	0.00	0.00	0.00
12,200.0	88.85	89.79	7,797.1	17.4	4,692.2	4,692.2	0.00	0.00	0.00
12,300.0	88.85	89.79	7,799.1	17.7	4,792.2	4,792.2	0.00	0.00	0.00
12,400.0	88.85	89.79	7,801.1	18.1	4,892.2	4,892.2	0.00	0.00	0.00
12,500.0	88.85	89.79	7,803.2	18.5	4,992.2	4,992.2	0.00	0.00	0.00
12,532.9	88.85	89.79	7,803.8	18.6	5,025.0	5,025.0	0.00	0.00	0.00
PPP-4: 1980' FSL & 2640' FEL (28)									
12,600.0	88.85	89.79	7,805.2	18.8	5,092.1	5,092.2	0.00	0.00	0.00
12,700.0	88.85	89.79	7,807.2	19.2	5,192.1	5,192.1	0.00	0.00	0.00
12,800.0	88.85	89.79	7,809.2	19.6	5,292.1	5,292.1	0.00	0.00	0.00
12,900.0	88.85	89.79	7,811.2	20.0	5,392.1	5,392.1	0.00	0.00	0.00
13,000.0	88.85	89.79	7,813.2	20.3	5,492.0	5,492.1	0.00	0.00	0.00
13,100.0	88.85	89.79	7,815.2	20.7	5,592.0	5,592.1	0.00	0.00	0.00
13,200.0	88.85	89.79	7,817.3	21.1	5,692.0	5,692.0	0.00	0.00	0.00
13,300.0	88.85	89.79	7,819.3	21.4	5,792.0	5,792.0	0.00	0.00	0.00
13,400.0	88.85	89.79	7,821.3	21.8	5,892.0	5,892.0	0.00	0.00	0.00
13,500.0	88.85	89.79	7,823.3	22.2	5,991.9	5,992.0	0.00	0.00	0.00
13,600.0	88.85	89.79	7,825.3	22.5	6,091.9	6,092.0	0.00	0.00	0.00
13,700.0	88.85	89.79	7,827.3	22.9	6,191.9	6,191.9	0.00	0.00	0.00
13,800.0	88.85	89.79	7,829.3	23.3	6,291.9	6,291.9	0.00	0.00	0.00
13,853.1	88.85	89.79	7,830.4	23.5	6,345.0	6,345.0	0.00	0.00	0.00
PPP-5: 1980' FSL & 1320' FEL (28)									
13,900.0	88.85	89.79	7,831.4	23.7	6,391.9	6,391.9	0.00	0.00	0.00
14,000.0	88.85	89.79	7,833.4	24.0	6,491.8	6,491.9	0.00	0.00	0.00
14,100.0	88.85	89.79	7,835.4	24.4	6,591.8	6,591.9	0.00	0.00	0.00
14,200.0	88.85	89.79	7,837.4	24.8	6,691.8	6,691.8	0.00	0.00	0.00
14,300.0	88.85	89.79	7,839.4	25.1	6,791.8	6,791.8	0.00	0.00	0.00
14,400.0	88.85	89.79	7,841.4	25.5	6,891.8	6,891.8	0.00	0.00	0.00

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Pavo Frio 29/28 B2JI Fed Com #1H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3490.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3490.0usft (Original Well Elev)
Site:	Pavo Frio 29/28 B2JI Fed Com #1H	**North Reference:**	Grid
Well:	Sec 29, T18S, R29E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 100' FEL (28)		
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)
14,500.0	88.85	89.79	7,843.4	25.9	6,991.7	6,991.8	0.00	0.00	0.00
14,600.0	88.85	89.79	7,845.5	26.2	7,091.7	7,091.8	0.00	0.00	0.00
14,700.0	88.85	89.79	7,847.5	26.6	7,191.7	7,191.7	0.00	0.00	0.00
14,800.0	88.85	89.79	7,849.5	27.0	7,291.7	7,291.7	0.00	0.00	0.00
14,900.0	88.85	89.79	7,851.5	27.4	7,391.6	7,391.7	0.00	0.00	0.00
15,000.0	88.85	89.79	7,853.5	27.7	7,491.6	7,491.7	0.00	0.00	0.00
15,073.4	88.85	89.79	7,855.0	28.0	7,565.0	7,565.1	0.00	0.00	0.00
BHL: 1980' FSL & 100' FEL (28)									

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: 1980' FSL & 2385' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	624,520.00	614,300.00	32.7166215	-104.0960979
KOP @ 7234' - plan hits target center - Point	0.00	0.00	7,234.0	0.0	0.0	624,520.00	614,300.00	32.7166215	-104.0960979
FTP: 1980' FSL & 2328' - plan hits target center - Point	0.00	0.00	7,460.4	0.2	57.0	624,520.21	614,357.00	32.7166218	-104.0959126
LP: 1980' FSL & 1916' F - plan hits target center - Point	0.00	0.00	7,712.0	1.7	468.5	624,521.74	614,768.47	32.7166234	-104.0945748
PPP-2: 1980' FSL & 0' F - plan hits target center - Point	0.00	0.00	7,750.6	8.8	2,385.0	624,528.83	616,685.00	32.7166309	-104.0883432
PPP-3: 1980' FSL & 132 - plan hits target center - Point	0.00	0.00	7,777.2	13.7	3,705.0	624,533.72	618,005.00	32.7166359	-104.0840512
PPP-4: 1980' FSL & 264 - plan hits target center - Point	0.00	0.00	7,803.8	18.6	5,025.0	624,538.60	619,325.00	32.7166407	-104.0797593
PPP-5: 1980' FSL & 132 - plan hits target center - Point	0.00	0.00	7,830.4	23.5	6,345.0	624,543.49	620,645.00	32.7166454	-104.0754674
BHL: 1980' FSL & 100' F - plan hits target center - Point	0.00	0.00	7,855.0	28.0	7,565.0	624,548.00	621,865.00	32.7166496	-104.0715006