

**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,
LEA COUNTY, NEW MEXICO.**

Case No. 15,359

VERIFIED STATEMENT OF NATHAN CLESS

COUNTY OF MIDLAND)
) ss.
STATE OF TEXAS)

Nathan Cless, 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, and have testified before the Division.
4. The geological plats attached hereto show the following:
 - (a) Attachment A is a structure map on the top of the Wolfcamp formation, as well as a gross isopach of the Third Bone Spring sand. The structure dips slightly from the northeast to the southwest. Structure is not important in this area. The map shows a consistent gross thickness in the Third Bone Spring sand across the proposed well unit. It also shows other Bone Spring horizontal producers in the immediate area, as well as a line of cross-section A-A' explained on Attachment B.
 - (b) Attachment B is cross section A-A'. The horizontal target is the Third Bone Spring sand, which is indicated on the cross-section. The Third Bone Spring sand has uniform thickness of around 350 feet across the well unit, with porosity in the 10-12% range.
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.

Oil Conservation Division

Case No. _____

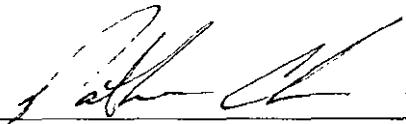
Exhibit No. 2

7. There is no faulting or other geologic impediment which will adversely affect the drilling of the subject well.

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

9. Attachment C contains production information from other Bone Spring sand horizontal wells drilled in this area. There has been numerous Second Bone Spring sand horizontals drilled in this area. No Third Bone Spring sand horizontals have been drilled in this immediate area. Mewbourne prefers to drill standup wells because there have been numerous successful standup wells in the Bone Spring formation drilled in this area.

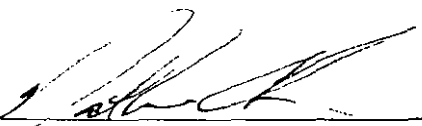
10. Attachment D is the proposed horizontal well plan. The well will have approximately 15 completion stages, using 5 million gallons of fluid and 6 million pounds of sand. The beginning of the producing interval will be approximately 670 from the south line and 750 feet from the east line of Section 9.


Nathan Cless

VERIFICATION

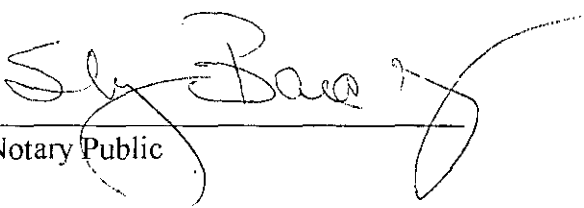
STATE OF TEXAS)
) ss.
COUNTY OF MIDLAND)

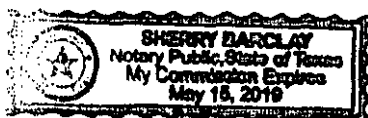
Nathan Cless, being duly sworn upon his oath, deposes and states that: He is a geologist for Mewbourne Oil Company; he is authorized to make this verification on its behalf; he has read the foregoing statement, and knows the contents thereof; and the same is true and correct to the best of his knowledge,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

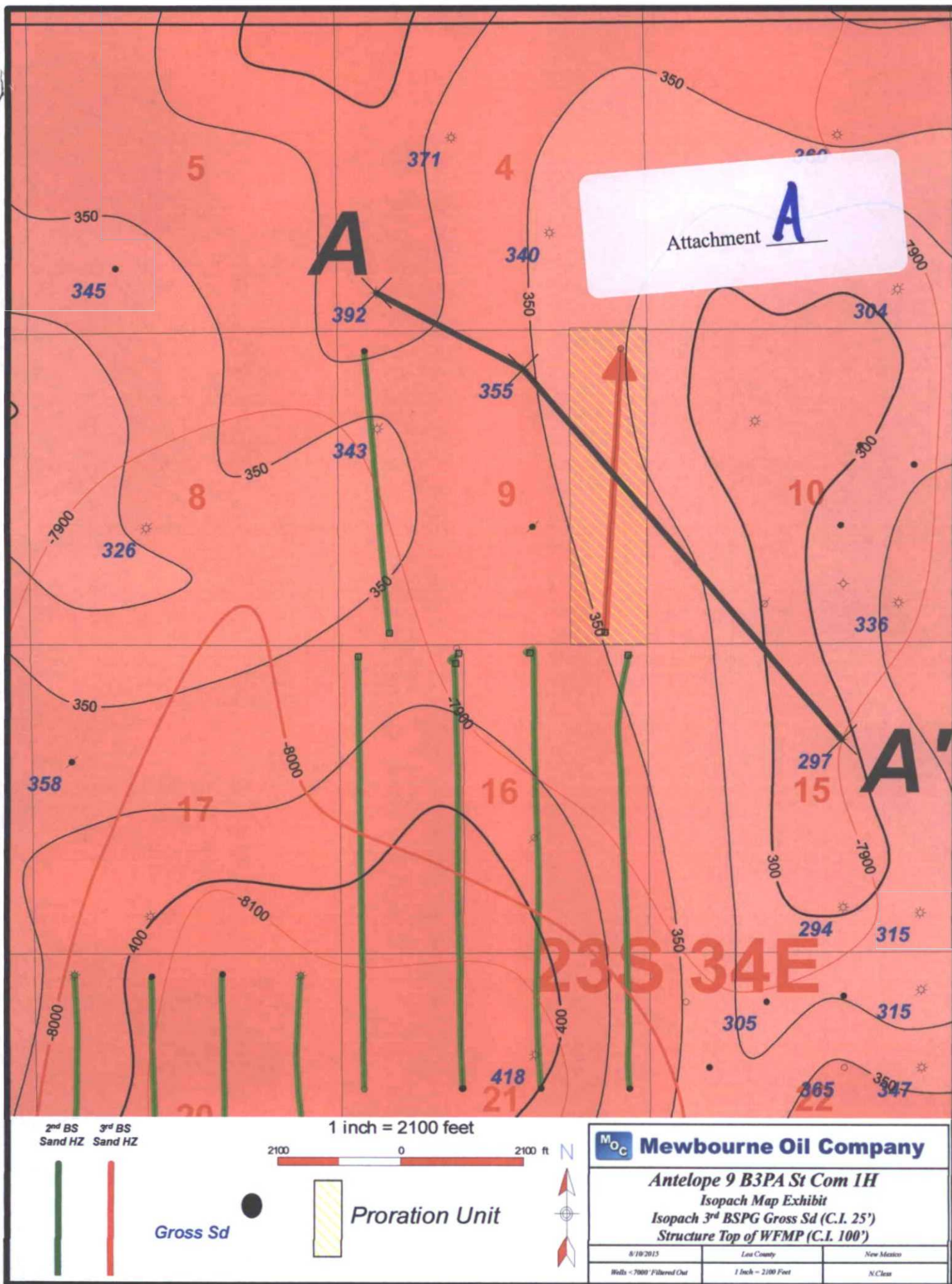

Nathan Cless

SUBSCRIBED AND SWORN TO before me this 10th day of August 2015 by
Nathan Cless.

My Commission Expires: 5/15/2019

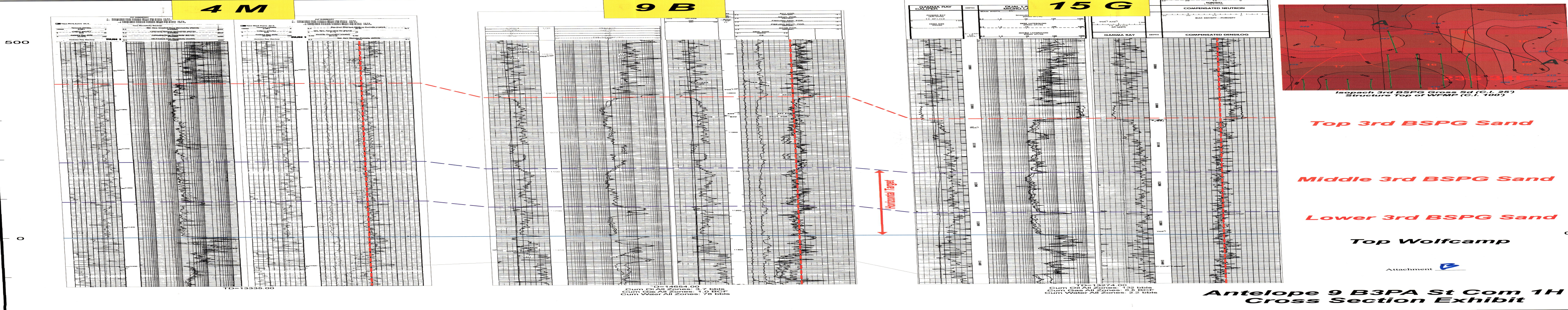

Notary Public





A

A



Antelope 9 B3PA St Com 1H Horizontal Bone Spring Production Table								
Well Name	Operator	API	Location	BSPG Completion Date	Cum Oil (mbo)	Cum Gas (bcf)	Cum Water (mbw)	BSPG Zone
Antelope 8 B3PA St Com 1H	Mewbourne	3002542651	9PA/23S/34E	Proposed Well	NA	NA	NA	3rd BSPG Sd
Antelope 9 B2MD St Com 1H	Mewbourne	3002542366	9MD/23S/34E	6/13/2015	NA	NA	NA	2nd BSPG Sd
Gettysburg St Com 4H	COG	3002541929	16-21AH/23S/34E	12/10/2014	74	0.1	107	2nd BSPG Sd
Gettysburg St Com 3H	COG	3002540916	16-21BG/23S/34E	2/26/2014	135	0.1	163	2nd BSPG Sd
Gettysburg St 2H	COG	3002540874	16-21CF/23S/34E	8/20/2013	84	0.1	78	2nd BSPG Sd
Gettysburg St Com 1H	COG	3002541928	16-21DE/23S/34E	Completion Pending	NA	NA	NA	2nd BSPG Sd

Attachment

C



Mewbourne Oil Company

Lea County, New Mexico

Sec 9, T23S , R34E

Antelope 9 B3PA State 1H

Wellbore #1

Plan: Design #2

DDC Well Planning Report

27 July, 2015

SL: 185 FSL & 750 FEL

LP: 671 FSL & 750 FEL

BHL: 330 FNL & 750 FEL

Attachment D





HP
Well Planning Report



Database:	Compass	Local Co-ordinate Reference:	Well Antelope 9 B3PA State 1H
Company:	Mewbourne Oil Company	TVD Reference:	Well @ 3436.0usft (Patterson #204)
Project:	Lea County, New Mexico	MD Reference:	Well @ 3436.0usft (Patterson #204)
Site:	Sec 9, T23S, R34E	North Reference:	Grid
Well:	Antelope 9 B3PA State 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Project	Lea 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	Sec 9, T23S, R34E		
Site Position:		Northing:	478,399.00 usft
From:	Map	Easting:	767,202.40 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 18' 44.178 N
		Longitude:	103° 28' 6.404 W
		Grid Convergence:	0.46 °

Well	Antelope 9 B3PA State 1H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 18' 44.178 N
		Longitude:	103° 28' 6.404 W
		Ground Level:	3,409.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	7/16/2015	7.12
			Dip Angle
			(°)
			60.19
			Field Strength
			(nT)
			48,200

Design	Design #2		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			359.50

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
10,867.6	0.00	0.00	10,867.6	0.0	0.0	0.00	0.00	0.00	0.00	
11,625.9	90.99	359.50	11,345.0	485.7	-4.2	12.00	12.00	-0.07	359.50	
15,905.2	90.99	359.50	11,271.0	4,764.2	-41.4	0.00	0.00	0.00	0.00	PBHL Antelope 9 B3P

Surface Location 185' FSL & 750' FEL

Database:	Compass	Local Co-ordinate Reference:	Well Antelope 9 B3PA State 1H
Company:	Mewbourne Oil Company	TVD Reference:	Well @ 3436.0usft (Patterson #204)
Project:	Lea County, New Mexico	MD Reference:	Well @ 3436.0usft (Patterson #204)
Site:	Sec 9, T23S , R34E	North Reference:	Grid
Well:	Antelope 9 B3PA State 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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
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
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

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Wellbore:	Wellbore #1		
Design:	Design #2		

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)
5,400.0	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
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00
10,100.0	0.00	0.00	10,100.0	0.0	0.0	0.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,200.0	0.0	0.0	0.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,300.0	0.0	0.0	0.0	0.00	0.00	0.00
10,400.0	0.00	0.00	10,400.0	0.0	0.0	0.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,500.0	0.0	0.0	0.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,600.0	0.0	0.0	0.0	0.00	0.00	0.00
10,700.0	0.00	0.00	10,700.0	0.0	0.0	0.0	0.00	0.00	0.00

Database: Compass
Company: Mewbourne Oil Company
Project: Lea County, New Mexico
Site: Sec 9, T23S, R34E
Well: Antelope 9 B3PA State 1H
Wellbore: Wellbore #1
Design: Design #2

Local Co-ordinate Reference: Well Antelope 9 B3PA State 1H
TVD Reference: Well @ 3436.0usft (Patterson #204)
MD Reference: Well @ 3436.0usft (Patterson #204)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
10,800.0	0.00	0.00	10,800.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 12" / 100'									
10,867.6	0.00	0.00	10,867.6	0.0	0.0	0.0	0.00	0.00	0.00
10,900.0	3.89	359.50	10,900.0	1.1	0.0	1.1	12.00	12.00	0.00
11,000.0	15.89	359.50	10,998.3	18.2	-0.2	18.2	12.00	12.00	0.00
11,100.0	27.89	359.50	11,090.9	55.4	-0.5	55.5	12.00	12.00	0.00
11,200.0	39.89	359.50	11,173.8	111.1	-1.0	111.1	12.00	12.00	0.00
11,300.0	51.89	359.50	11,243.3	182.8	-1.6	182.8	12.00	12.00	0.00
11,400.0	63.89	359.50	11,296.3	267.3	-2.3	267.3	12.00	12.00	0.00
11,500.0	75.89	359.50	11,330.7	361.0	-3.1	361.1	12.00	12.00	0.00
11,600.0	87.89	359.50	11,344.7	459.9	-4.0	459.9	12.00	12.00	0.00
EOC @ 90.99° Inc / 359.50 Azm / 11345° TVD									
11,625.9	90.99	359.50	11,345.0	485.7	-4.2	485.7	12.00	12.00	0.00
11,700.0	90.99	359.50	11,343.7	559.8	-4.9	559.9	0.00	0.00	0.00
11,800.0	90.99	359.50	11,342.0	659.8	-5.7	659.8	0.00	0.00	0.00
11,900.0	90.99	359.50	11,340.3	759.8	-6.6	759.8	0.00	0.00	0.00
12,000.0	90.99	359.50	11,338.5	859.8	-7.5	859.8	0.00	0.00	0.00
12,100.0	90.99	359.50	11,336.8	959.8	-8.3	959.8	0.00	0.00	0.00
12,200.0	90.99	359.50	11,335.1	1,059.7	-9.2	1,059.8	0.00	0.00	0.00
12,300.0	90.99	359.50	11,333.3	1,159.7	-10.1	1,159.8	0.00	0.00	0.00
12,400.0	90.99	359.50	11,331.6	1,259.7	-11.0	1,259.7	0.00	0.00	0.00
12,500.0	90.99	359.50	11,329.9	1,359.7	-11.8	1,359.7	0.00	0.00	0.00
12,600.0	90.99	359.50	11,328.1	1,459.7	-12.7	1,459.7	0.00	0.00	0.00
12,700.0	90.99	359.50	11,326.4	1,559.6	-13.6	1,559.7	0.00	0.00	0.00
12,800.0	90.99	359.50	11,324.7	1,659.6	-14.4	1,659.7	0.00	0.00	0.00
12,900.0	90.99	359.50	11,323.0	1,759.6	-15.3	1,759.7	0.00	0.00	0.00
13,000.0	90.99	359.50	11,321.2	1,859.6	-16.2	1,859.7	0.00	0.00	0.00
13,100.0	90.99	359.50	11,319.5	1,959.6	-17.0	1,959.6	0.00	0.00	0.00
13,200.0	90.99	359.50	11,317.8	2,059.6	-17.9	2,059.6	0.00	0.00	0.00
13,300.0	90.99	359.50	11,316.0	2,159.5	-18.8	2,159.6	0.00	0.00	0.00
13,400.0	90.99	359.50	11,314.3	2,259.5	-19.6	2,259.6	0.00	0.00	0.00
13,500.0	90.99	359.50	11,312.6	2,359.5	-20.5	2,359.6	0.00	0.00	0.00
13,600.0	90.99	359.50	11,310.9	2,459.5	-21.4	2,459.6	0.00	0.00	0.00
13,700.0	90.99	359.50	11,309.1	2,559.5	-22.2	2,559.6	0.00	0.00	0.00
13,800.0	90.99	359.50	11,307.4	2,659.4	-23.1	2,659.5	0.00	0.00	0.00
13,900.0	90.99	359.50	11,305.7	2,759.4	-24.0	2,759.5	0.00	0.00	0.00
14,000.0	90.99	359.50	11,303.9	2,859.4	-24.9	2,859.5	0.00	0.00	0.00
14,100.0	90.99	359.50	11,302.2	2,959.4	-25.7	2,959.5	0.00	0.00	0.00
14,200.0	90.99	359.50	11,300.5	3,059.4	-26.6	3,059.5	0.00	0.00	0.00
14,300.0	90.99	359.50	11,298.8	3,159.3	-27.5	3,159.5	0.00	0.00	0.00
14,400.0	90.99	359.50	11,297.0	3,259.3	-28.3	3,259.4	0.00	0.00	0.00
14,500.0	90.99	359.50	11,295.3	3,359.3	-29.2	3,359.4	0.00	0.00	0.00
14,600.0	90.99	359.50	11,293.6	3,459.3	-30.1	3,459.4	0.00	0.00	0.00
14,700.0	90.99	359.50	11,291.8	3,559.3	-30.9	3,559.4	0.00	0.00	0.00
14,800.0	90.99	359.50	11,290.1	3,659.3	-31.8	3,659.4	0.00	0.00	0.00
14,900.0	90.99	359.50	11,288.4	3,759.2	-32.7	3,759.4	0.00	0.00	0.00
15,000.0	90.99	359.50	11,286.7	3,859.2	-33.5	3,859.4	0.00	0.00	0.00
15,100.0	90.99	359.50	11,284.9	3,959.2	-34.4	3,959.3	0.00	0.00	0.00
15,200.0	90.99	359.50	11,283.2	4,059.2	-35.3	4,059.3	0.00	0.00	0.00
15,300.0	90.99	359.50	11,281.5	4,159.2	-36.2	4,159.3	0.00	0.00	0.00
15,400.0	90.99	359.50	11,279.7	4,259.1	-37.0	4,259.3	0.00	0.00	0.00
15,500.0	90.99	359.50	11,278.0	4,359.1	-37.9	4,359.3	0.00	0.00	0.00
15,600.0	90.99	359.50	11,276.3	4,459.1	-38.8	4,459.3	0.00	0.00	0.00
15,700.0	90.99	359.50	11,274.5	4,559.1	-39.6	4,559.3	0.00	0.00	0.00



HP
Well Planning Report



Database:	Compass	Local Co-ordinate Reference:	Well Antelope 9 B3PA State 1H
Company:	Mewbourne Oil Company	TVD Reference:	Well @ 3436.0usft (Patterson #204)
Project:	Lea County, New Mexico	MD Reference:	Well @ 3436.0usft (Patterson #204)
Site:	Sec 9, T23S, R34E	North Reference:	Grid
Well:	Antelope 9 B3PA State 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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)
15,800.0	90.99	359.50	11,272.8	4,659.1	-40.5	4,659.2	0.00	0.00	0.00
15,900.0	90.99	359.50	11,271.1	4,759.0	-41.4	4,759.2	0.00	0.00	0.00
TD @ 15905' MD / 11271' TVD									
15,905.2	90.99	359.50	11,271.0	4,764.2	-41.4	4,764.4	0.00	0.00	0.00

Design Targets

Target Name

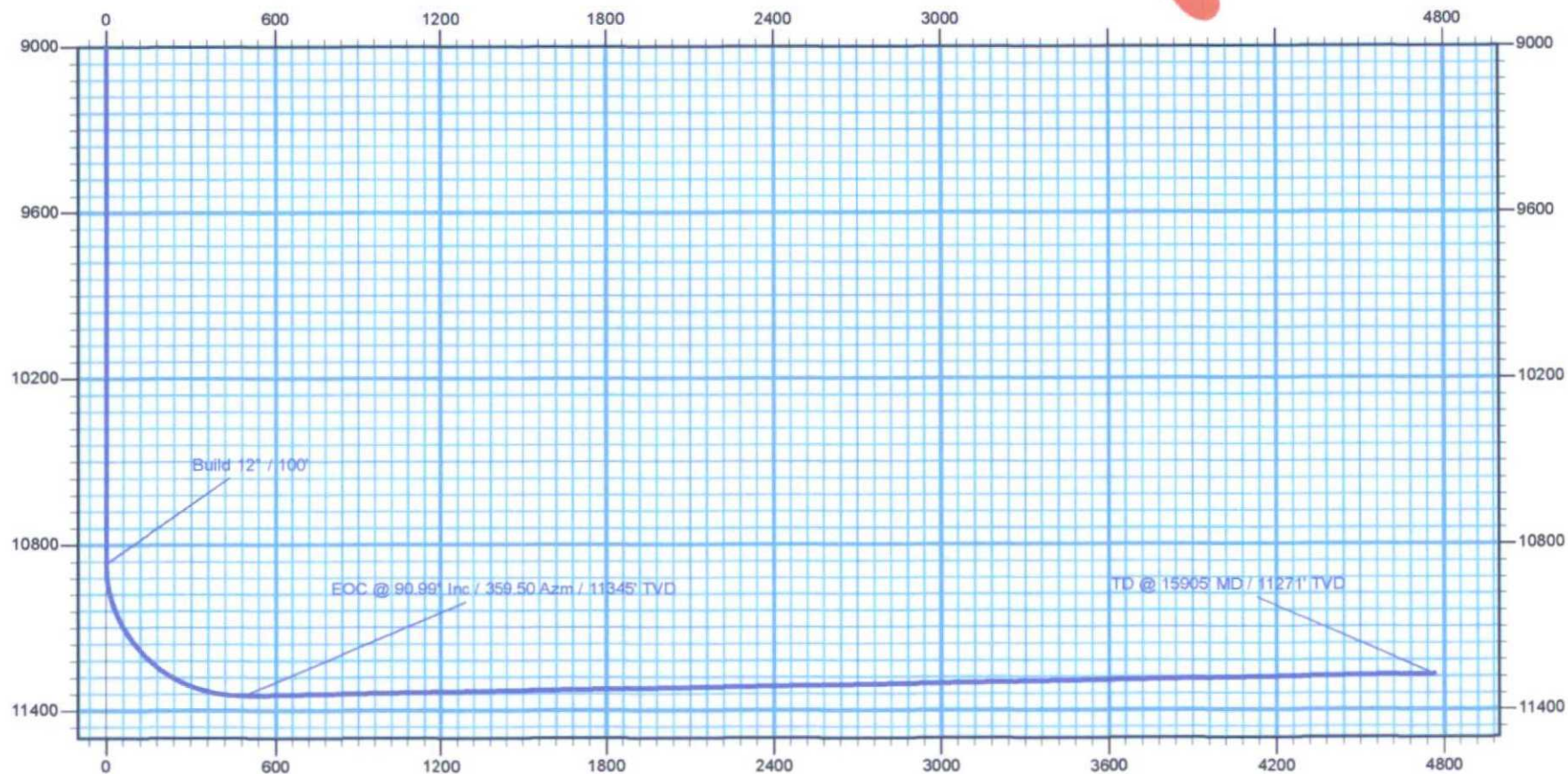
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
PBHL Antelope 9 B3PA :	0.00	0.00	11,271.0	4,764.2	-41.4	483,163.24	767,160.98	32° 19' 31.324 N	103° 28' 6.438 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates				Comment
		+N/-S (usft)	+E/-W (usft)			
10,867.6	10,867.6	0.0	0.0			Build: 12° / 100'
11,625.9	11,345.0	485.7	-4.2			EOC @ 90.99° Inc / 359.50 Azm / 11345' TVD
15,905.2	11,271.0	4,764.2	-41.4			TD @ 15905' MD / 11271' TVD

BHL 330' FNL & 750' FEL

Lea County, New Mexico
Sec. 9, T23S, R34E
Antelope 9 B3PA State 1H
Design #2



Vertical Section at 359.50° (600 usft/in)

Lea County, New Mexico
Sec 9, T23S , R34E
Antelope 9 B3PA State 1H
Design #2

