

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

APPLICATION OF MEWBOURNE OIL COMPANY
FOR COMPULSORY POOLING,
LEA COUNTY, NEW MEXICO.

Case No. 20299

VERIFIED STATEMENT OF JORDAN CARRELL

COUNTY OF MIDLAND)
) ss.
STATE OF TEXAS)

Jordan Carrell, 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 Bone Spring formation, on the top of the Second Bone Spring Sand. It shows that structure is relatively flat north to south and dips to the east and west, and that the planned wellbore would drill along strike. It also shows a line of cross-section, A-A'.
 - (b) Attachment B is a gross sand isopach of the Second Bone Spring Sand, the test zone for the proposed Gazelle 22 B2NC Fed Com. Well No. 2H. It shows that the target sand across the well unit has a uniform thickness of approximately 395-430 feet.
 - (c) Attachment C is a gross sand isopach of the Third Bone Spring Sand, the test zone for the proposed Gazelle 22 B3NC Fed Com. Well No. 1H. It shows that the target sand across the well unit has a uniform thickness of approximately 300-330 feet.
 - (d) Attachment D is a stratigraphic cross section with well logs on the cross-section that give a representative sample of the Bone Spring formation in this area. The target zone for the wells are labeled as the Second and Third Bone Spring Sands, and the zones are continuous across the well unit.
4. I conclude from the maps that:

EXHIBIT

4

- (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.
 - (c) There is no faulting or other geologic impediment on the area which will affect the drilling of the subject well.
5. Attachment E contains information from other wells drilled in this area. The preference is for standup units, and the completed wells in the area (recent completions) are apparently commercial.
6. Attachment F is the Survey Calculation Report for the B2NC well. The producing interval of the proposed well will be orthodox.
6. Attachment G is the Survey Calculation Report for the B3NC well. The producing interval of the proposed well will be orthodox.

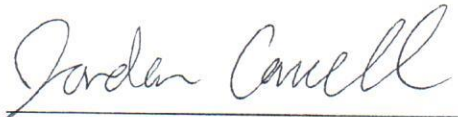


Jordan Carrell

VERIFICATION

STATE OF TEXAS)
) ss.
COUNTY OF MIDLAND)

Jordan Carrell, 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.



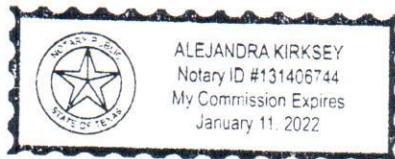
Jordan Carrell

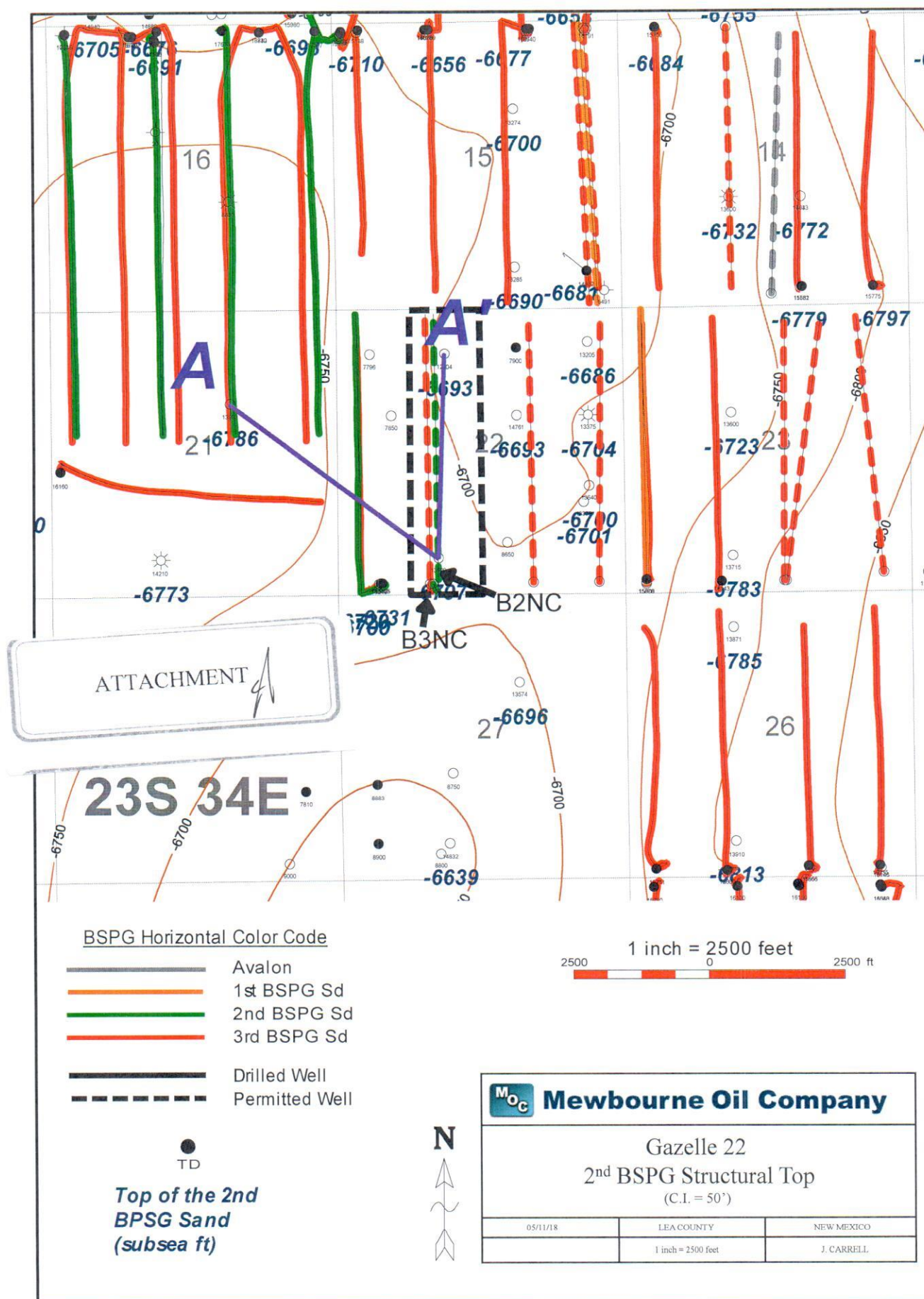
SUBSCRIBED AND SWORN TO before me this 1st day of March, 2019 by Jordan Carrell.

My Commission Expires: January 11, 2022



Notary Public







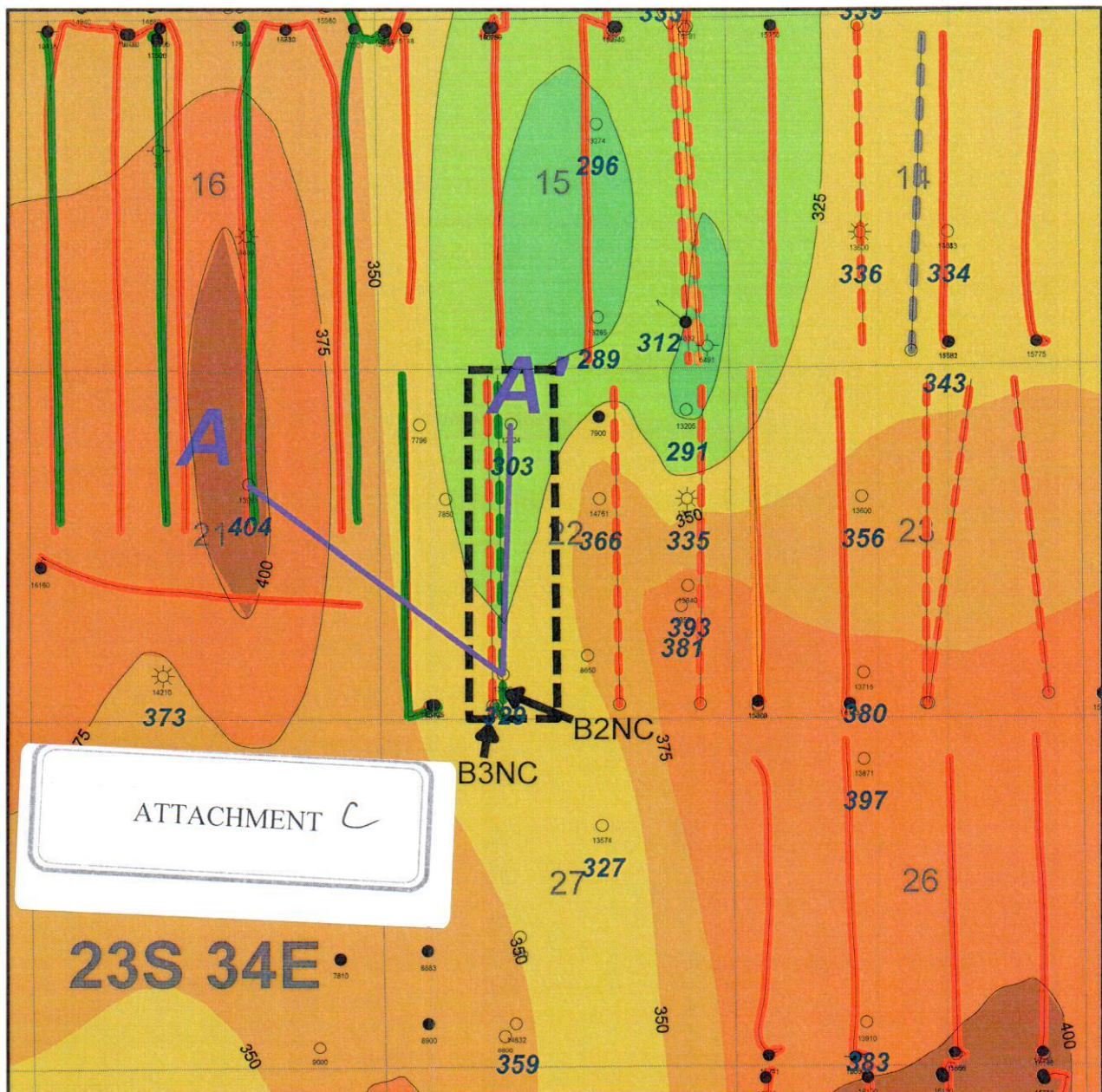
2nd BSPG
Gross Sand (ft)

A horizontal number line is shown with tick marks at -2500, 0, and 2500. A red bar is drawn below the line, starting at -1000 and ending at 1000.

	Avalon
	1st BSPG Sd
	2nd BSPG Sd
	3rd BSPG Sd
	Drilled Well
	Permitted Well

Gazelle 22 B2NC Fed Com #2H
2nd BSPG Gross Sand Isopach
(C.I.=25')

JRC



● TD
**3rd BSPG
 Gross Sand (ft)**

1 inch = 2500 feet

BSPG Horizontal Color Code

- Avalon
- 1st BSPG Sd
- 2nd BSPG Sd
- 3rd BSPG Sd
- Drilled Well
- - - Permitted Well

MOC Mewbourne Oil Company

Gazelle 22 B3NC Fed Com #1H
 3rd BSPG Gross Sand Isopach
 (C.I. = 25°)

2/28/19	Lea County	New Mexico
	1 inch = 2500 feet	JRC

A

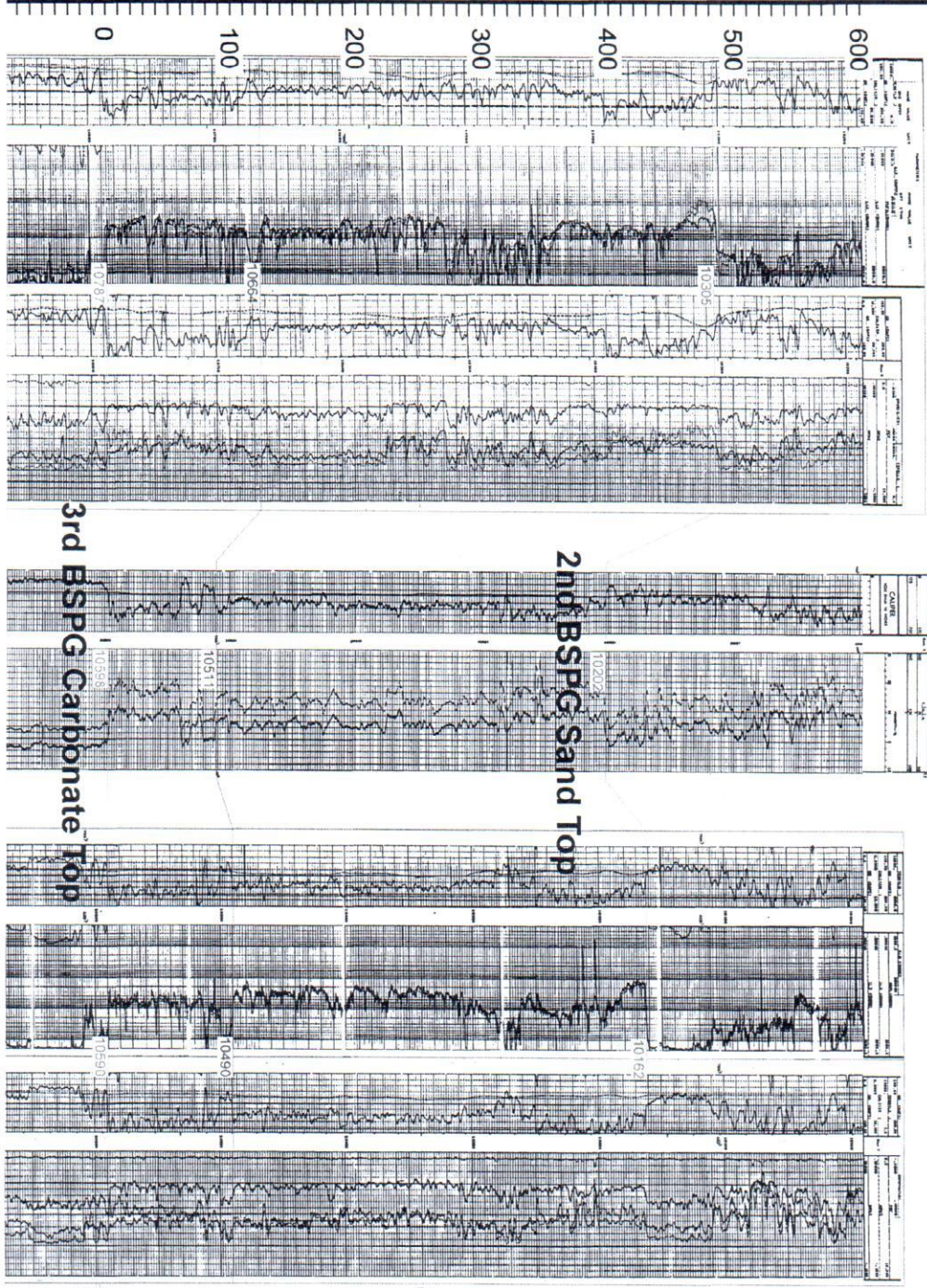
30025287200 4775 ft 300252400300 3765 ft 300252864700

YATES PETROLEUM CORPORATION
KELLER ATF STATE 1
TWP: 23 S. - Range: 34 E. - Sec: 21
Reference: KB
Datum: 5519.00

SIANA OPERATING L.L.C
CURRY FEDERAL 2
TWP: 23 S. - Range: 34 E. - Sec: 22
Reference: KB
Datum: 3495.00

SIANA OPERATING L.L.C
CURRY STATE 2
TWP: 23 S. - Range: 34 E. - Sec: 22
Reference: KB
Datum: 3469.00

21G 22N 22C

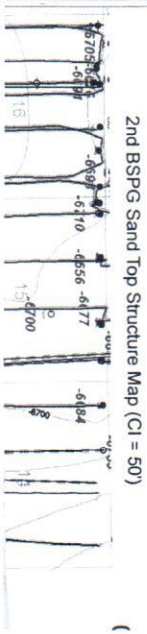


Gazelle 22
2nd and 3rd BSPG
Stratigraphic Cross-Section

A'

ATTACHMENT

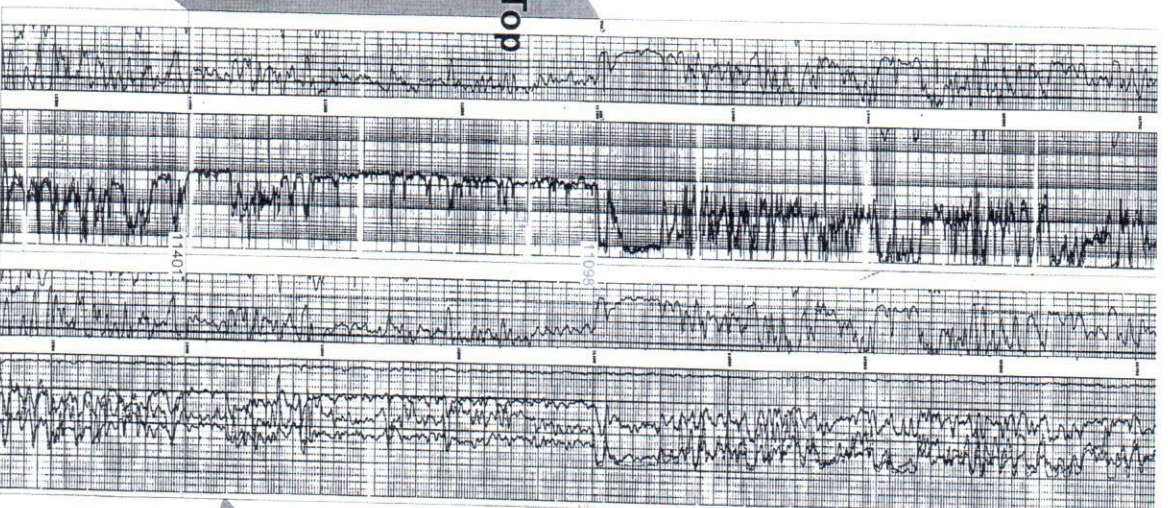
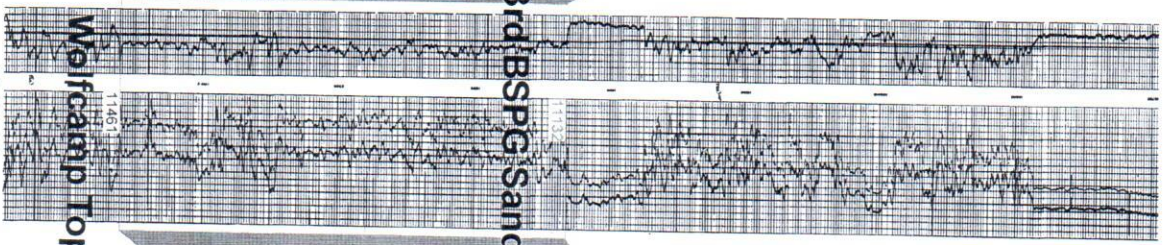
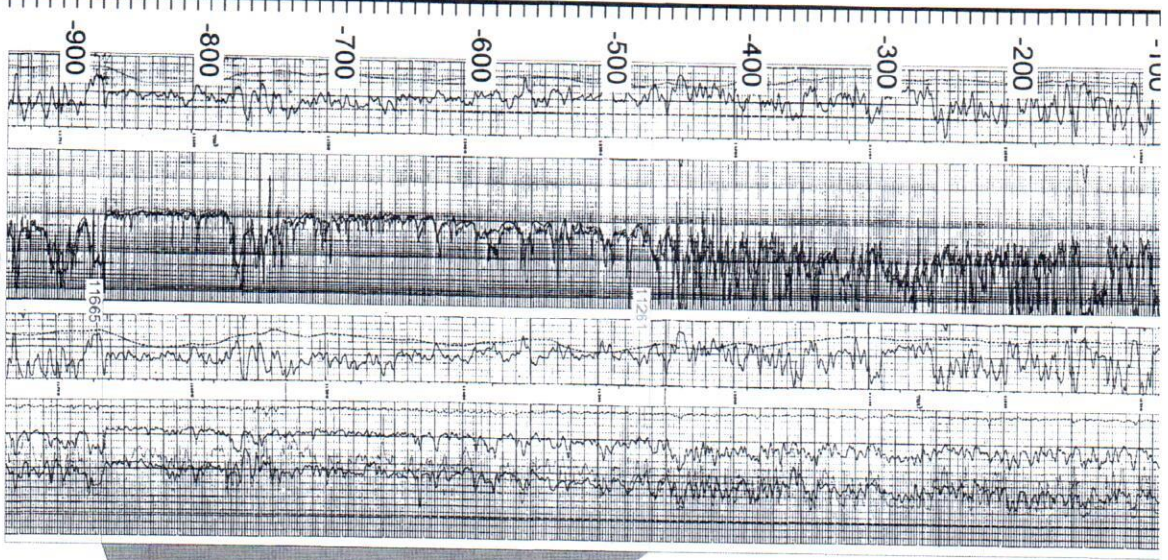
B2NC Fed Com #2H
Target



TD=13993.00
 Cum Oil All Zones: 421.4 bbls
 Cum Gas All Zones: 705820 MCF
 Cum Water All Zones: 6488 bbls

TD=13600.00
 Cum Oil All Zones: 903 bbls
 Cum Water All Zones: 3659266 bbls

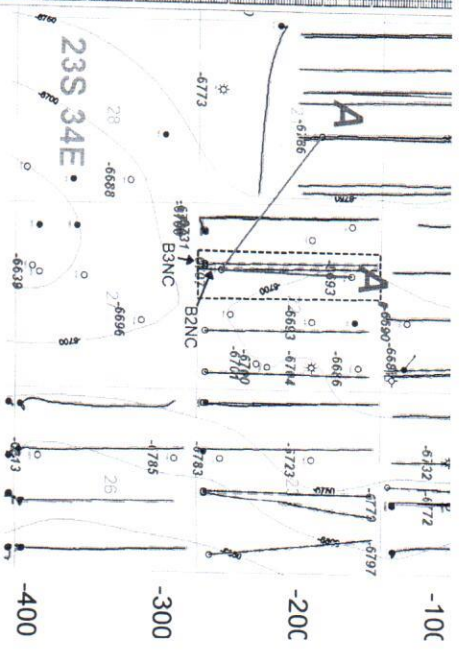
TD=12504.00
 Cum Oil All Zones: 140337 bbls
 Cum Gas All Zones: 12429 MCF
 Cum Water All Zones: 377510 bbls



3rd BSPG Sand Top

Wolfcamp Top

B3NC Fed Com #1H
 Target

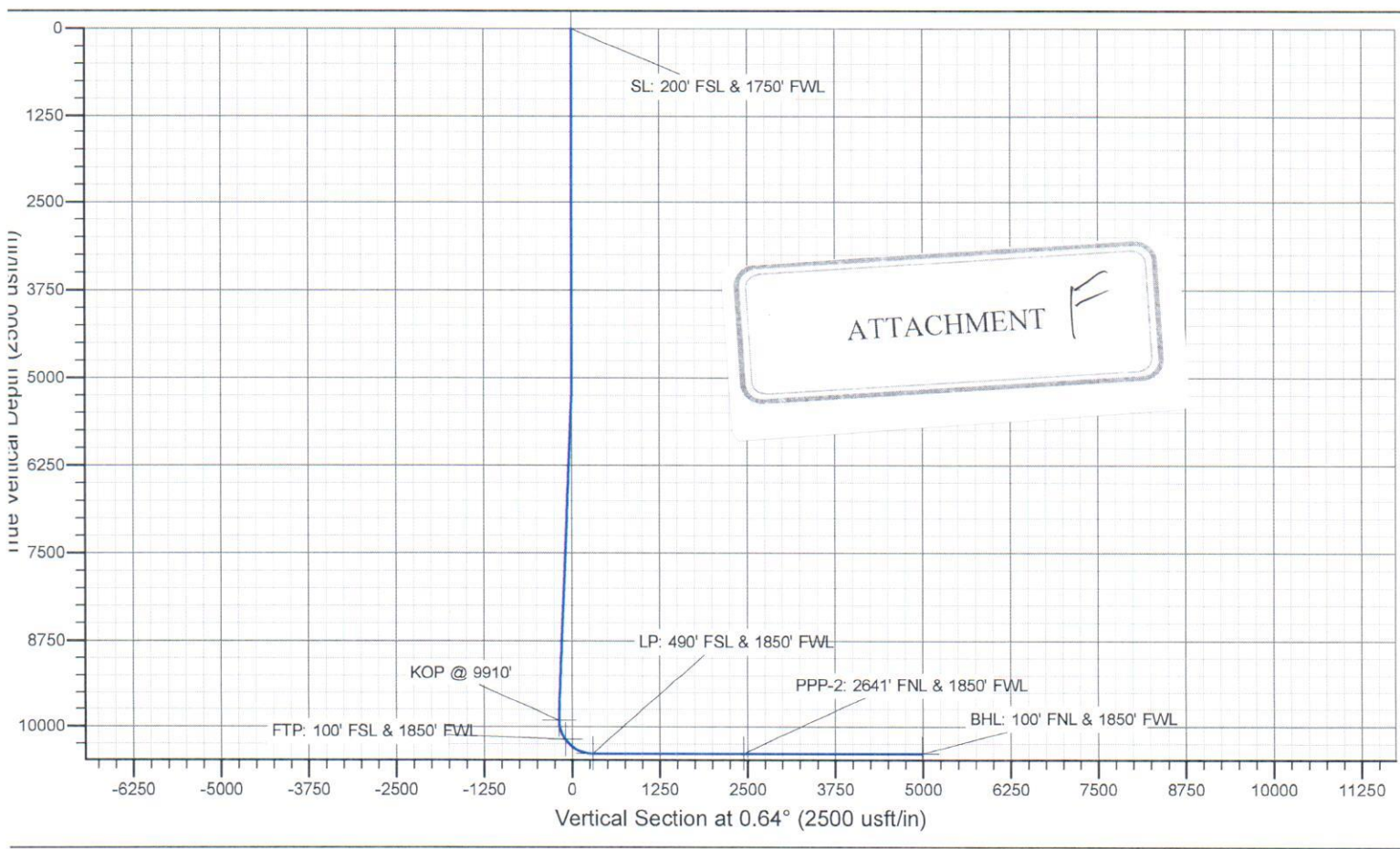
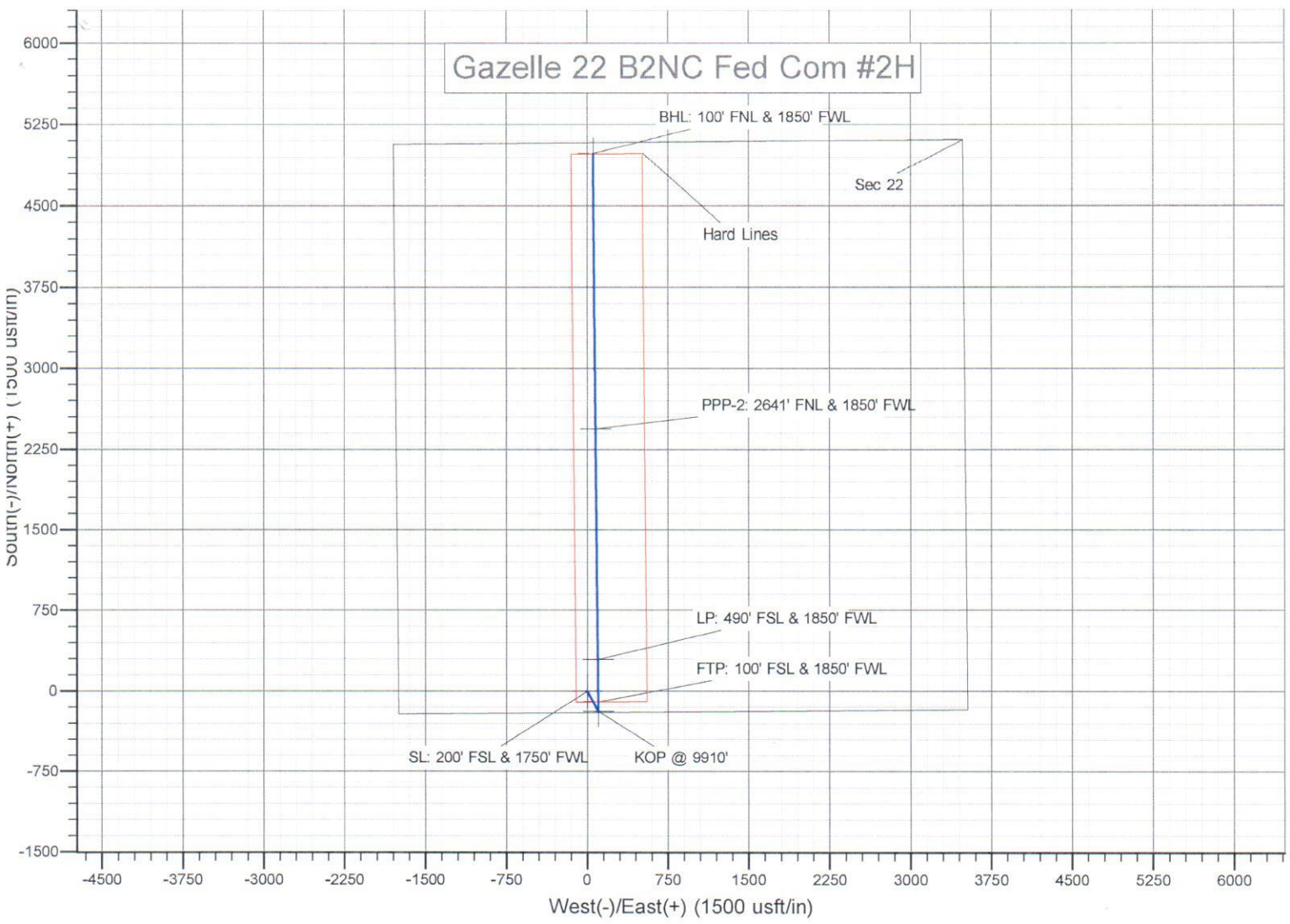


-100
-200
-300
-400
-500
-600
-700
-800
-900

Gazelle 22 - 2nd & 3rd Bone Spring Production Data Table

Well Name	Operator	API	Location	Vertical/Horizontal	3rd BSPG Comp Date	Cum Oil (MBO)	Cum Gas (BCF)	Cum Water (MBW)	NS/EW	HZ Target
GETTYSBURG STATE COM 1H	COG OPERATING LLC	3002541928	16D21L/23S/34E	Horizontal	7/11/2015	397	0.5	432	NS	2nd BSPG Sd
GETTYSBURG STATE COM 2H	COG OPERATING LLC	3002540874	16C21K/23S/34E	Horizontal	9/4/2013	148	0.2	173	NS	2nd BSPG Sd
GETTYSBURG STATE COM 3H	COG OPERATING LLC	3002540916	16B21J/23S/34E	Horizontal	3/15/2014	249	0.4	283	NS	2nd BSPG Sd
GETTYSBURG STATE COM 4H	COG OPERATING LLC	3002541929	16A21I/23S/34E	Horizontal	12/22/2014	189	0.4	280	NS	2nd BSPG Sd
GETTYSBURG STATE CO 11H	COG OPERATING LLC	3002544159	16A21I/23S/34E	Horizontal	11/21/2018	58	0.1	64	NS	3rd BSPG Sd
GETTYSBURG STATE CO 12H	COG OPERATING LLC	3002544160	16B21J/23S/34E	Horizontal	11/24/2018	54	0.1	84	NS	3rd BSPG Sd
GETTYSBURG STATE CO 13H	COG OPERATING LLC	3002544230	16C21K/23S/34E	Horizontal	11/6/2018	62	0.1	140	NS	3rd BSPG Sd
GETTYSBURG STATE CO 14H	COG OPERATING LLC	3002544231	16C21K/23S/34E	Horizontal	11/10/2018	61	0.1	114	NS	3rd BSPG Sd
GETTYSBURG STATE CO 15H	COG OPERATING LLC	3002544232	16A21I/23S/34E	Horizontal	11/13/2018	69	0.1	97	NS	3rd BSPG Sd
PRONGHORN 15 B3DM FEDERAL COM 1H	MEWBOURNE OIL CO	30025442968	15DM/23S/34E	Horizontal	3/20/2017	590	1.5	401	NS	3rd BSPG Sd
PRONGHORN 15 B3CN FEDERAL COM 1H	MEWBOURNE OIL CO	3002544011	15CN/23S/34E	Horizontal	8/7/2018	101	0.2	122	NS	3rd BSPG Sd
PRONGHORN 15 B3BO FEDERAL 1H	MEWBOURNE OIL CO	3002543903	15BO/23S/34E	Horizontal	11/13/2018	41	0.1	74	NS	3rd BSPG Sd
ORYX 14 B3DM FEDERAL COM 1H	MEWBOURNE OIL CO	3002543424	14DM/23S/34E	Horizontal	12/5/2016	118	0.2	176	NS	3rd BSPG Sd
CAZA RIDGE '14' STATE 3H	CAZA OPERATING LLC	3002540621	14OB/23S/34E	Horizontal	11/5/2012	210	0.2	173	NS	3rd BSPG Sd
CAZA RIDGE '14' STATE 4H	CAZA OPERATING LLC	3002540936	14PA/23S/34E	Horizontal	8/8/2013	167	0.2	152	NS	3rd BSPG Sd
WILDCAT 21 LI FEDERAL COM 1H	MEWBOURNE OIL CO	3002541261	21LI/23S/34E	Horizontal	10/13/2013	84	0.1	119	EW	3rd BSPG Sd
GAZELLE 22 B3MD FED COM 1H	MEWBOURNE OIL CO	3002543397	22MD/23S/34E	Horizontal	10/24/2018	64	0.1	102	NS	3rd BSPG Sd
GAZELLE 22 B2MD FED COM 2H	MEWBOURNE OIL CO	3002544941	22MD/23S/34E	Horizontal	10/24/2018	39	0	86	NS	2nd BSPG Sd
FLORENCE STATE 1H	MATADOR PRODUCTION	3002541841	23MD/23S/34E	Horizontal	10/30/2015	261	0.4	230	NS	3rd BSPG Sd
FLORENCE 23 23S 34 AR 121H	MATADOR PRODUCTION	3002544361	23MD/23S/34E	Horizontal	SPUD 9/22/2018				NS	2nd BSPG Sd
FLORENCE STATE 23 23 34 AR 202H	MATADOR PRODUCTION	3002544013	23NC/23S/34E	Horizontal	2/6/2018	88	0.1	113	NS	3rd BSPG Sd
MAD DOG 26 MD STATE COM 1H	MEWBOURNE OIL CO	3002541123	26MD/23S/34E	Horizontal	2/10/2014	206	0.3	199	NS	3rd BSPG Sd
MAD DOG 26 B3NC STATE COM 1H	MEWBOURNE OIL CO	3002541124	26NC/23S/34E	Horizontal	8/1/2014	290	0.3	175	NS	3rd BSPG Sd
MAD DOG 26 B3OB STATE 1H	MEWBOURNE OIL CO	3002541982	26OB/23S/34E	Horizontal	7/6/2016	361	0.4	386	NS	3rd BSPG Sd
MAD DOG 26 B3PA STATE 1H	MEWBOURNE OIL CO	3002543590	26PA/23S/34E	Horizontal	8/3/2017	321	0.4	262	NS	3rd BSPG Sd

ATTACHMENT



Mewbourne Oil Company

Lea County, New Mexico NAD 83

Gazelle 22 B2NC Fed Com #2H

Sec 22, T23S, R34E

SL: 200' FSL & 1750' FWL

BHL: 100' FNL & 1850' FWL

Plan: Design #1

Standard Planning Report

11 July, 2018

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Gazelle 22 B2NC Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3498.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3498.0usft (Original Well Elev)
Site:	Gazelle 22 B2NC Fed Com #2H	North Reference:	Grid
Well:	Sec 22, T23S, R34E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1850' FWL		
Design:	Design #1		

Project	Lea 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	Gazelle 22 B2NC Fed Com #2H				
Site Position:		Northing:	467,929.00 usft	Latitude:	32.2833963
From:	Map	Easting:	810,979.00 usft	Longitude:	-103.4608087
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.47 °

Well	Sec 22, T23S, R34E					
Well Position	+N/-S	0.0 usft	Northing:	467,929.00 usft	Latitude:	32.2833963
	+E/-W	0.0 usft	Easting:	810,979.00 usft	Longitude:	-103.4608087
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,498.0 usft	Ground Level:	3,471.0 usft

Wellbore	BHL: 100' FNL & 1850' FWL				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/11/2018	6.66	60.08	47,955

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	0.64

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	
5,075.0	0.00	0.00	5,075.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,205.1	2.60	151.52	5,205.1	-2.6	1.4	2.00	2.00	0.00	151.52	
9,784.7	2.60	151.52	9,779.9	-185.4	100.6	0.00	0.00	0.00	0.00	
9,914.8	0.00	0.00	9,910.0	-188.0	102.0	2.00	-2.00	0.00	180.00	KOP @ 9910'
10,665.7	90.00	359.49	10,388.0	290.0	97.7	11.99	11.99	0.00	-0.51	
15,358.9	90.00	359.49	10,388.0	4,983.0	56.0	0.00	0.00	0.00	0.00	BHL: 100' FNL & 1850'

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Gazelle 22 B2NC Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3498.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3498.0usft (Original Well Elev)
Site:	Gazelle 22 B2NC Fed Com #2H	North Reference:	Grid
Well:	Sec 22, T23S, R34E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1850' FWL		
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: 200' FSL & 1750' FWL									
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
5,075.0	0.00	0.00	5,075.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.50	151.52	5,100.0	-0.1	0.1	-0.1	2.00	2.00	0.00

Planning Report

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Well:	Sec 22, T23S, R34E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1850' FWL		
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)	
5,200.0	2.50	151.52	5,200.0	-2.4	1.3	-2.4	2.00	2.00	0.00	
5,205.1	2.60	151.52	5,205.1	-2.6	1.4	-2.6	2.00	2.00	0.00	
5,300.0	2.60	151.52	5,299.9	-6.4	3.5	-6.3	0.00	0.00	0.00	
5,400.0	2.60	151.52	5,399.8	-10.4	5.6	-10.3	0.00	0.00	0.00	
5,500.0	2.60	151.52	5,499.7	-14.4	7.8	-14.3	0.00	0.00	0.00	
5,600.0	2.60	151.52	5,599.5	-18.4	10.0	-18.2	0.00	0.00	0.00	
5,700.0	2.60	151.52	5,699.4	-22.4	12.1	-22.2	0.00	0.00	0.00	
5,800.0	2.60	151.52	5,799.3	-26.3	14.3	-26.2	0.00	0.00	0.00	
5,900.0	2.60	151.52	5,899.2	-30.3	16.5	-30.1	0.00	0.00	0.00	
6,000.0	2.60	151.52	5,999.1	-34.3	18.6	-34.1	0.00	0.00	0.00	
6,100.0	2.60	151.52	6,099.0	-38.3	20.8	-38.1	0.00	0.00	0.00	
6,200.0	2.60	151.52	6,198.9	-42.3	23.0	-42.0	0.00	0.00	0.00	
6,300.0	2.60	151.52	6,298.8	-46.3	25.1	-46.0	0.00	0.00	0.00	
6,400.0	2.60	151.52	6,398.7	-50.3	27.3	-50.0	0.00	0.00	0.00	
6,500.0	2.60	151.52	6,498.6	-54.3	29.5	-54.0	0.00	0.00	0.00	
6,600.0	2.60	151.52	6,598.5	-58.3	31.6	-57.9	0.00	0.00	0.00	
6,700.0	2.60	151.52	6,698.4	-62.3	33.8	-61.9	0.00	0.00	0.00	
6,800.0	2.60	151.52	6,798.3	-66.3	36.0	-65.9	0.00	0.00	0.00	
6,900.0	2.60	151.52	6,898.2	-70.3	38.1	-69.8	0.00	0.00	0.00	
7,000.0	2.60	151.52	6,998.1	-74.2	40.3	-73.8	0.00	0.00	0.00	
7,100.0	2.60	151.52	7,098.0	-78.2	42.4	-77.8	0.00	0.00	0.00	
7,200.0	2.60	151.52	7,197.9	-82.2	44.6	-81.7	0.00	0.00	0.00	
7,300.0	2.60	151.52	7,297.8	-86.2	46.8	-85.7	0.00	0.00	0.00	
7,400.0	2.60	151.52	7,397.7	-90.2	48.9	-89.7	0.00	0.00	0.00	
7,500.0	2.60	151.52	7,497.6	-94.2	51.1	-93.6	0.00	0.00	0.00	
7,600.0	2.60	151.52	7,597.5	-98.2	53.3	-97.6	0.00	0.00	0.00	
7,700.0	2.60	151.52	7,697.4	-102.2	55.4	-101.6	0.00	0.00	0.00	
7,800.0	2.60	151.52	7,797.3	-106.2	57.6	-105.5	0.00	0.00	0.00	
7,900.0	2.60	151.52	7,897.2	-110.2	59.8	-109.5	0.00	0.00	0.00	
8,000.0	2.60	151.52	7,997.1	-114.2	61.9	-113.5	0.00	0.00	0.00	
8,100.0	2.60	151.52	8,097.0	-118.2	64.1	-117.4	0.00	0.00	0.00	
8,200.0	2.60	151.52	8,196.9	-122.1	66.3	-121.4	0.00	0.00	0.00	
8,300.0	2.60	151.52	8,296.8	-126.1	68.4	-125.4	0.00	0.00	0.00	
8,400.0	2.60	151.52	8,396.7	-130.1	70.6	-129.3	0.00	0.00	0.00	
8,500.0	2.60	151.52	8,496.6	-134.1	72.8	-133.3	0.00	0.00	0.00	
8,600.0	2.60	151.52	8,596.5	-138.1	74.9	-137.3	0.00	0.00	0.00	
8,700.0	2.60	151.52	8,696.3	-142.1	77.1	-141.2	0.00	0.00	0.00	
8,800.0	2.60	151.52	8,796.2	-146.1	79.3	-145.2	0.00	0.00	0.00	
8,900.0	2.60	151.52	8,896.1	-150.1	81.4	-149.2	0.00	0.00	0.00	
9,000.0	2.60	151.52	8,996.0	-154.1	83.6	-153.1	0.00	0.00	0.00	
9,100.0	2.60	151.52	9,095.9	-158.1	85.8	-157.1	0.00	0.00	0.00	
9,200.0	2.60	151.52	9,195.8	-162.1	87.9	-161.1	0.00	0.00	0.00	
9,300.0	2.60	151.52	9,295.7	-166.1	90.1	-165.0	0.00	0.00	0.00	
9,400.0	2.60	151.52	9,395.6	-170.0	92.3	-169.0	0.00	0.00	0.00	
9,500.0	2.60	151.52	9,495.5	-174.0	94.4	-173.0	0.00	0.00	0.00	
9,600.0	2.60	151.52	9,595.4	-178.0	96.6	-176.9	0.00	0.00	0.00	
9,700.0	2.60	151.52	9,695.3	-182.0	98.8	-180.9	0.00	0.00	0.00	
9,784.7	2.60	151.52	9,779.9	-185.4	100.6	-184.3	0.00	0.00	0.00	
9,800.0	2.30	151.52	9,795.2	-186.0	100.9	-184.8	2.00	-2.00	0.00	
9,900.0	0.30	151.52	9,895.2	-188.0	102.0	-186.8	2.00	-2.00	0.00	
9,914.8	0.00	0.00	9,910.0	-188.0	102.0	-186.8	2.00	-2.00	0.00	
KOP @ 9910'										
10,000.0	10.21	359.49	9,994.7	-180.4	101.9	-179.3	11.99	11.99	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Gazelle 22 B2NC Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3498.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3498.0usft (Original Well Elev)
Site:	Gazelle 22 B2NC Fed Com #2H	North Reference:	Grid
Well:	Sec 22, T23S, R34E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1850' FWL		
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)
10,100.0	22.20	359.49	10,090.6	-152.6	101.7	-151.4	11.99	11.99	0.00
10,200.0	34.18	359.49	10,178.6	-105.4	101.3	-104.3	11.99	11.99	0.00
10,209.5	35.32	359.49	10,186.4	-100.0	101.2	-98.9	11.99	11.99	0.00
FTP: 100' FSL & 1850' FWL									
10,300.0	46.17	359.49	10,254.8	-41.0	100.7	-39.9	11.99	11.99	0.00
10,400.0	58.16	359.49	10,316.1	37.8	100.0	38.9	11.99	11.99	0.00
10,500.0	70.14	359.49	10,359.6	127.6	99.2	128.7	11.99	11.99	0.00
10,600.0	82.13	359.49	10,383.5	224.5	98.3	225.6	11.99	11.99	0.00
10,665.7	90.00	359.49	10,388.0	290.0	97.7	291.1	11.99	11.99	0.00
LP: 490' FSL & 1850' FWL									
10,700.0	90.00	359.49	10,388.0	324.3	97.4	325.4	0.00	0.00	0.00
10,800.0	90.00	359.49	10,388.0	424.3	96.6	425.4	0.00	0.00	0.00
10,900.0	90.00	359.49	10,388.0	524.3	95.7	525.4	0.00	0.00	0.00
11,000.0	90.00	359.49	10,388.0	624.3	94.8	625.3	0.00	0.00	0.00
11,100.0	90.00	359.49	10,388.0	724.3	93.9	725.3	0.00	0.00	0.00
11,200.0	90.00	359.49	10,388.0	824.3	93.0	825.3	0.00	0.00	0.00
11,300.0	90.00	359.49	10,388.0	924.3	92.1	925.3	0.00	0.00	0.00
11,400.0	90.00	359.49	10,388.0	1,024.3	91.2	1,025.3	0.00	0.00	0.00
11,500.0	90.00	359.49	10,388.0	1,124.3	90.3	1,125.2	0.00	0.00	0.00
11,600.0	90.00	359.49	10,388.0	1,224.3	89.4	1,225.2	0.00	0.00	0.00
11,700.0	90.00	359.49	10,388.0	1,324.3	88.5	1,325.2	0.00	0.00	0.00
11,800.0	90.00	359.49	10,388.0	1,424.3	87.7	1,425.2	0.00	0.00	0.00
11,900.0	90.00	359.49	10,388.0	1,524.3	86.8	1,525.2	0.00	0.00	0.00
12,000.0	90.00	359.49	10,388.0	1,624.3	85.9	1,625.1	0.00	0.00	0.00
12,100.0	90.00	359.49	10,388.0	1,724.3	85.0	1,725.1	0.00	0.00	0.00
12,200.0	90.00	359.49	10,388.0	1,824.3	84.1	1,825.1	0.00	0.00	0.00
12,300.0	90.00	359.49	10,388.0	1,924.3	83.2	1,925.1	0.00	0.00	0.00
12,400.0	90.00	359.49	10,388.0	2,024.3	82.3	2,025.1	0.00	0.00	0.00
12,500.0	90.00	359.49	10,388.0	2,124.3	81.4	2,125.0	0.00	0.00	0.00
12,600.0	90.00	359.49	10,388.0	2,224.2	80.5	2,225.0	0.00	0.00	0.00
12,700.0	90.00	359.49	10,388.0	2,324.2	79.7	2,325.0	0.00	0.00	0.00
12,800.0	90.00	359.49	10,388.0	2,424.2	78.8	2,425.0	0.00	0.00	0.00
12,817.8	90.00	359.49	10,388.0	2,442.0	78.6	2,442.7	0.00	0.00	0.00
PPP-2: 2641' FNL & 1850' FWL									
12,900.0	90.00	359.49	10,388.0	2,524.2	77.9	2,525.0	0.00	0.00	0.00
13,000.0	90.00	359.49	10,388.0	2,624.2	77.0	2,624.9	0.00	0.00	0.00
13,100.0	90.00	359.49	10,388.0	2,724.2	76.1	2,724.9	0.00	0.00	0.00
13,200.0	90.00	359.49	10,388.0	2,824.2	75.2	2,824.9	0.00	0.00	0.00
13,300.0	90.00	359.49	10,388.0	2,924.2	74.3	2,924.9	0.00	0.00	0.00
13,400.0	90.00	359.49	10,388.0	3,024.2	73.4	3,024.9	0.00	0.00	0.00
13,500.0	90.00	359.49	10,388.0	3,124.2	72.5	3,124.8	0.00	0.00	0.00
13,600.0	90.00	359.49	10,388.0	3,224.2	71.6	3,224.8	0.00	0.00	0.00
13,700.0	90.00	359.49	10,388.0	3,324.2	70.8	3,324.8	0.00	0.00	0.00
13,800.0	90.00	359.49	10,388.0	3,424.2	69.9	3,424.8	0.00	0.00	0.00
13,900.0	90.00	359.49	10,388.0	3,524.2	69.0	3,524.8	0.00	0.00	0.00
14,000.0	90.00	359.49	10,388.0	3,624.2	68.1	3,624.7	0.00	0.00	0.00
14,100.0	90.00	359.49	10,388.0	3,724.2	67.2	3,724.7	0.00	0.00	0.00
14,200.0	90.00	359.49	10,388.0	3,824.2	66.3	3,824.7	0.00	0.00	0.00
14,300.0	90.00	359.49	10,388.0	3,924.2	65.4	3,924.7	0.00	0.00	0.00
14,400.0	90.00	359.49	10,388.0	4,024.2	64.5	4,024.6	0.00	0.00	0.00
14,500.0	90.00	359.49	10,388.0	4,124.2	63.6	4,124.6	0.00	0.00	0.00
14,600.0	90.00	359.49	10,388.0	4,224.2	62.8	4,224.6	0.00	0.00	0.00
14,700.0	90.00	359.49	10,388.0	4,324.2	61.9	4,324.6	0.00	0.00	0.00

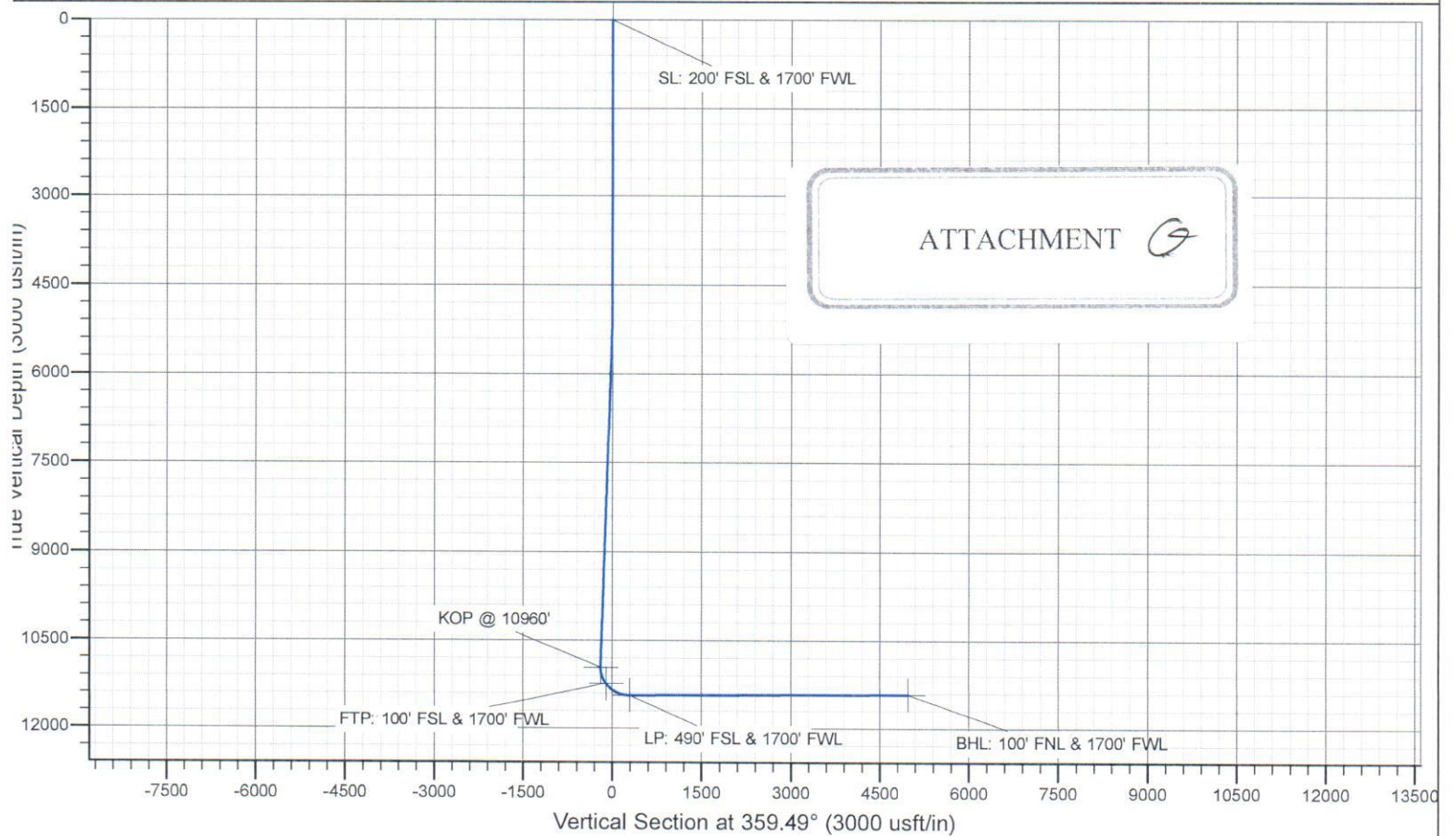
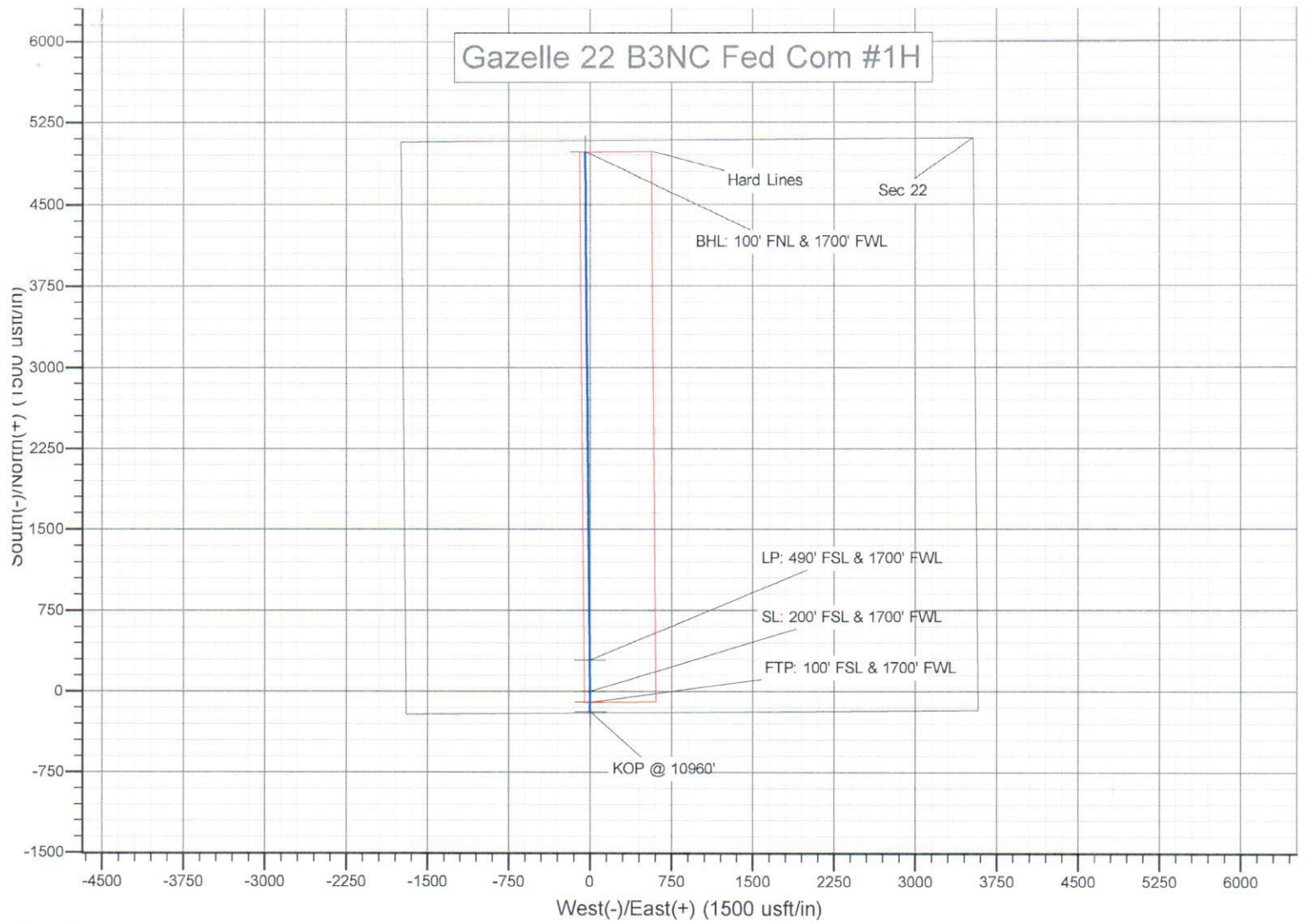
Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Gazelle 22 B2NC Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3498.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3498.0usft (Original Well Elev)
Site:	Gazelle 22 B2NC Fed Com #2H	North Reference:	Grid
Well:	Sec 22, T23S, R34E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1850' FWL		
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)	
14,800.0	90.00	359.49	10,388.0	4,424.2	61.0	4,424.6	0.00	0.00	0.00	
14,900.0	90.00	359.49	10,388.0	4,524.2	60.1	4,524.5	0.00	0.00	0.00	
15,000.0	90.00	359.49	10,388.0	4,624.2	59.2	4,624.5	0.00	0.00	0.00	
15,100.0	90.00	359.49	10,388.0	4,724.2	58.3	4,724.5	0.00	0.00	0.00	
15,200.0	90.00	359.49	10,388.0	4,824.1	57.4	4,824.5	0.00	0.00	0.00	
15,300.0	90.00	359.49	10,388.0	4,924.1	56.5	4,924.5	0.00	0.00	0.00	
15,358.9	90.00	359.49	10,388.0	4,983.0	56.0	4,983.3	0.00	0.00	0.00	
BHL: 100' FNL & 1850' FWL										

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: 200' FSL & 1750' FV - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	467,929.00	810,979.00	32.2833963	-103.4608087	
KOP @ 9910' - plan hits target center - Point	0.00	0.00	9,910.0	-188.0	102.0	467,741.00	811,081.00	32.2828773	-103.4604836	
FTP: 100' FSL & 1850' F - plan hits target center - Point	0.00	0.00	10,186.4	-100.0	101.2	467,829.00	811,080.22	32.2831192	-103.4604838	
BHL: 100' FNL & 1850' F - plan hits target center - Point	0.00	0.00	10,388.0	4,983.0	56.0	472,912.00	811,035.00	32.2970911	-103.4604963	
LP: 490' FSL & 1850' FV - plan hits target center - Point	0.00	0.00	10,388.0	290.0	97.7	468,218.98	811,076.75	32.2841912	-103.4604848	
PPP-2: 2641' FNL & 185 - plan hits target center - Point	0.00	0.00	10,388.0	2,442.0	78.6	470,371.00	811,057.60	32.2901066	-103.4604901	

Gazelle 22 B3NC Fed Com #1H



Mewbourne Oil Company

Lea County, New Mexico NAD 83

Gazelle 22 B3NC Fed Com #1H

Sec 22, T23S, R34E

SL: 200' FSL & 1700' FWL

BHL: 100' FNL & 1700' FWL

Plan: Design #1

Standard Planning Report

13 July, 2018

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Gazelle 22 B3NC Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3498.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3498.0usft (Original Well Elev)
Site:	Gazelle 22 B3NC Fed Com #1H	North Reference:	Grid
Well:	Sec 22, T23S, R34E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1700' FWL		
Design:	Design #1		

Project	Lea 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	Gazelle 22 B3NC Fed Com #1H		
Site Position:		Northing:	467,930.00 usft
From:	Map	Easting:	810,929.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32.2834002
		Longitude:	-103.4609705
		Grid Convergence:	0.47 °

Well	Sec 22, T23S, R34E		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,498.0 usft
		Latitude:	32.2834002
		Longitude:	-103.4609705
		Ground Level:	3,471.0 usft

Wellbore	BHL: 100' FNL & 1700' FWL		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	7/13/2018	6.66
			Dip Angle
			60.08
			Field Strength
			47,955

Design	Design #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			359.49

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	
5,075.0	0.00	0.00	5,075.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,169.0	1.88	179.40	5,168.9	-1.5	0.0	2.00	2.00	0.00	179.40	
10,869.1	1.88	179.40	10,866.1	-188.5	2.0	0.00	0.00	0.00	0.00	
10,963.1	0.00	0.00	10,960.0	-190.0	2.0	2.00	-2.00	0.00	180.00	KOP @ 10960'
11,716.0	90.24	359.49	11,438.0	290.0	-2.3	11.99	11.99	0.00	-0.51	
16,407.2	90.24	359.49	11,418.0	4,981.0	-44.0	0.00	0.00	0.00	0.00	BHL: 100' FNL & 1700'

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Gazelle 22 B3NC Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3498.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3498.0usft (Original Well Elev)
Site:	Gazelle 22 B3NC Fed Com #1H	North Reference:	Grid
Well:	Sec 22, T23S, R34E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1700' FWL		
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: 200' FSL & 1700' FWL									
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
5,075.0	0.00	0.00	5,075.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.50	179.40	5,100.0	-0.1	0.0	-0.1	2.00	2.00	0.00

Planning Report

Database: Hobbs
 Company: Mewbourne Oil Company
 Project: Lea County, New Mexico NAD 83
 Site: Gazelle 22 B3NC Fed Com #1H
 Well: Sec 22, T23S, R34E
 Wellbore: BHL: 100' FNL & 1700' FWL
 Design: Design #1

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:

Site Gazelle 22 B3NC Fed Com #1H
 WELL @ 3498.0usft (Original Well Elev)
 WELL @ 3498.0usft (Original Well Elev)
 Grid
 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)
5,169.0	1.88	179.40	5,168.9	-1.5	0.0	-1.5	2.00	2.00	0.00
5,200.0	1.88	179.40	5,200.0	-2.6	0.0	-2.6	0.00	0.00	0.00
5,300.0	1.88	179.40	5,299.9	-5.8	0.1	-5.8	0.00	0.00	0.00
5,400.0	1.88	179.40	5,399.9	-9.1	0.1	-9.1	0.00	0.00	0.00
5,500.0	1.88	179.40	5,499.8	-12.4	0.1	-12.4	0.00	0.00	0.00
5,600.0	1.88	179.40	5,599.8	-15.7	0.2	-15.7	0.00	0.00	0.00
5,700.0	1.88	179.40	5,699.7	-19.0	0.2	-19.0	0.00	0.00	0.00
5,800.0	1.88	179.40	5,799.6	-22.2	0.2	-22.2	0.00	0.00	0.00
5,900.0	1.88	179.40	5,899.6	-25.5	0.3	-25.5	0.00	0.00	0.00
6,000.0	1.88	179.40	5,999.5	-28.8	0.3	-28.8	0.00	0.00	0.00
6,100.0	1.88	179.40	6,099.5	-32.1	0.3	-32.1	0.00	0.00	0.00
6,200.0	1.88	179.40	6,199.4	-35.4	0.4	-35.4	0.00	0.00	0.00
6,300.0	1.88	179.40	6,299.4	-38.6	0.4	-38.6	0.00	0.00	0.00
6,400.0	1.88	179.40	6,399.3	-41.9	0.4	-41.9	0.00	0.00	0.00
6,500.0	1.88	179.40	6,499.3	-45.2	0.5	-45.2	0.00	0.00	0.00
6,600.0	1.88	179.40	6,599.2	-48.5	0.5	-48.5	0.00	0.00	0.00
6,700.0	1.88	179.40	6,699.2	-51.7	0.5	-51.7	0.00	0.00	0.00
6,800.0	1.88	179.40	6,799.1	-55.0	0.6	-55.0	0.00	0.00	0.00
6,900.0	1.88	179.40	6,899.1	-58.3	0.6	-58.3	0.00	0.00	0.00
7,000.0	1.88	179.40	6,999.0	-61.6	0.6	-61.6	0.00	0.00	0.00
7,100.0	1.88	179.40	7,098.9	-64.9	0.7	-64.9	0.00	0.00	0.00
7,200.0	1.88	179.40	7,198.9	-68.1	0.7	-68.1	0.00	0.00	0.00
7,300.0	1.88	179.40	7,298.8	-71.4	0.8	-71.4	0.00	0.00	0.00
7,400.0	1.88	179.40	7,398.8	-74.7	0.8	-74.7	0.00	0.00	0.00
7,500.0	1.88	179.40	7,498.7	-78.0	0.8	-78.0	0.00	0.00	0.00
7,600.0	1.88	179.40	7,598.7	-81.3	0.9	-81.3	0.00	0.00	0.00
7,700.0	1.88	179.40	7,698.6	-84.5	0.9	-84.5	0.00	0.00	0.00
7,800.0	1.88	179.40	7,798.6	-87.8	0.9	-87.8	0.00	0.00	0.00
7,900.0	1.88	179.40	7,898.5	-91.1	1.0	-91.1	0.00	0.00	0.00
8,000.0	1.88	179.40	7,998.5	-94.4	1.0	-94.4	0.00	0.00	0.00
8,100.0	1.88	179.40	8,098.4	-97.7	1.0	-97.7	0.00	0.00	0.00
8,200.0	1.88	179.40	8,198.4	-100.9	1.1	-100.9	0.00	0.00	0.00
8,300.0	1.88	179.40	8,298.3	-104.2	1.1	-104.2	0.00	0.00	0.00
8,400.0	1.88	179.40	8,398.2	-107.5	1.1	-107.5	0.00	0.00	0.00
8,500.0	1.88	179.40	8,498.2	-110.8	1.2	-110.8	0.00	0.00	0.00
8,600.0	1.88	179.40	8,598.1	-114.1	1.2	-114.1	0.00	0.00	0.00
8,700.0	1.88	179.40	8,698.1	-117.3	1.2	-117.3	0.00	0.00	0.00
8,800.0	1.88	179.40	8,798.0	-120.6	1.3	-120.6	0.00	0.00	0.00
8,900.0	1.88	179.40	8,898.0	-123.9	1.3	-123.9	0.00	0.00	0.00
9,000.0	1.88	179.40	8,997.9	-127.2	1.3	-127.2	0.00	0.00	0.00
9,100.0	1.88	179.40	9,097.9	-130.4	1.4	-130.5	0.00	0.00	0.00
9,200.0	1.88	179.40	9,197.8	-133.7	1.4	-133.7	0.00	0.00	0.00
9,300.0	1.88	179.40	9,297.8	-137.0	1.4	-137.0	0.00	0.00	0.00
9,400.0	1.88	179.40	9,397.7	-140.3	1.5	-140.3	0.00	0.00	0.00
9,500.0	1.88	179.40	9,497.7	-143.6	1.5	-143.6	0.00	0.00	0.00
9,600.0	1.88	179.40	9,597.6	-146.8	1.5	-146.9	0.00	0.00	0.00
9,700.0	1.88	179.40	9,697.5	-150.1	1.6	-150.1	0.00	0.00	0.00
9,800.0	1.88	179.40	9,797.5	-153.4	1.6	-153.4	0.00	0.00	0.00
9,900.0	1.88	179.40	9,897.4	-156.7	1.6	-156.7	0.00	0.00	0.00
10,000.0	1.88	179.40	9,997.4	-160.0	1.7	-160.0	0.00	0.00	0.00
10,100.0	1.88	179.40	10,097.3	-163.2	1.7	-163.2	0.00	0.00	0.00
10,200.0	1.88	179.40	10,197.3	-166.5	1.8	-166.5	0.00	0.00	0.00
10,300.0	1.88	179.40	10,297.2	-169.8	1.8	-169.8	0.00	0.00	0.00
10,400.0	1.88	179.40	10,397.2	-173.1	1.8	-173.1	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Gazelle 22 B3NC Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3498.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3498.0usft (Original Well Elev)
Site:	Gazelle 22 B3NC Fed Com #1H	North Reference:	Grid
Well:	Sec 22, T23S, R34E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1700' FWL		
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)
10,500.0	1.88	179.40	10,497.1	-176.4	1.9	-176.4	0.00	0.00	0.00
10,600.0	1.88	179.40	10,597.1	-179.6	1.9	-179.6	0.00	0.00	0.00
10,700.0	1.88	179.40	10,697.0	-182.9	1.9	-182.9	0.00	0.00	0.00
10,800.0	1.88	179.40	10,797.0	-186.2	2.0	-186.2	0.00	0.00	0.00
10,869.1	1.88	179.40	10,866.1	-188.5	2.0	-188.5	0.00	0.00	0.00
10,900.0	1.26	179.40	10,896.9	-189.3	2.0	-189.3	2.00	-2.00	0.00
10,963.1	0.00	0.00	10,960.0	-190.0	2.0	-190.0	2.00	-2.00	0.00
KOP @ 10960'									
11,000.0	4.42	359.49	10,996.9	-188.6	2.0	-188.6	11.99	11.99	0.00
11,100.0	16.41	359.49	11,095.0	-170.5	1.8	-170.5	11.99	11.99	0.00
11,200.0	28.40	359.49	11,187.3	-132.5	1.5	-132.5	11.99	11.99	0.00
11,261.3	35.74	359.49	11,239.2	-100.0	1.2	-100.0	11.99	11.99	0.00
FTP: 100' FSL & 1700' FWL									
11,300.0	40.38	359.49	11,269.7	-76.1	1.0	-76.1	11.99	11.99	0.00
11,400.0	52.37	359.49	11,338.6	-3.9	0.3	-3.9	11.99	11.99	0.00
11,500.0	64.36	359.49	11,390.9	81.1	-0.4	81.1	11.99	11.99	0.00
11,600.0	76.34	359.49	11,424.5	175.1	-1.2	175.1	11.99	11.99	0.00
11,700.0	88.33	359.49	11,437.8	274.0	-2.1	274.0	11.99	11.99	0.00
11,716.0	90.24	359.49	11,438.0	290.0	-2.3	290.0	11.99	11.99	0.00
LP: 490' FSL & 1700' FWL									
11,800.0	90.24	359.49	11,437.6	374.0	-3.0	374.0	0.00	0.00	0.00
11,900.0	90.24	359.49	11,437.2	474.0	-3.9	474.0	0.00	0.00	0.00
12,000.0	90.24	359.49	11,436.8	574.0	-4.8	574.0	0.00	0.00	0.00
12,100.0	90.24	359.49	11,436.4	674.0	-5.7	674.0	0.00	0.00	0.00
12,200.0	90.24	359.49	11,435.9	774.0	-6.6	774.0	0.00	0.00	0.00
12,300.0	90.24	359.49	11,435.5	874.0	-7.5	874.0	0.00	0.00	0.00
12,400.0	90.24	359.49	11,435.1	974.0	-8.4	974.0	0.00	0.00	0.00
12,500.0	90.24	359.49	11,434.7	1,074.0	-9.2	1,074.0	0.00	0.00	0.00
12,600.0	90.24	359.49	11,434.2	1,174.0	-10.1	1,174.0	0.00	0.00	0.00
12,700.0	90.24	359.49	11,433.8	1,274.0	-11.0	1,274.0	0.00	0.00	0.00
12,800.0	90.24	359.49	11,433.4	1,374.0	-11.9	1,374.0	0.00	0.00	0.00
12,900.0	90.24	359.49	11,433.0	1,474.0	-12.8	1,474.0	0.00	0.00	0.00
13,000.0	90.24	359.49	11,432.5	1,574.0	-13.7	1,574.0	0.00	0.00	0.00
13,100.0	90.24	359.49	11,432.1	1,674.0	-14.6	1,674.0	0.00	0.00	0.00
13,200.0	90.24	359.49	11,431.7	1,774.0	-15.5	1,774.0	0.00	0.00	0.00
13,300.0	90.24	359.49	11,431.2	1,874.0	-16.4	1,874.0	0.00	0.00	0.00
13,400.0	90.24	359.49	11,430.8	1,974.0	-17.3	1,974.0	0.00	0.00	0.00
13,500.0	90.24	359.49	11,430.4	2,074.0	-18.1	2,074.0	0.00	0.00	0.00
13,600.0	90.24	359.49	11,430.0	2,173.9	-19.0	2,174.0	0.00	0.00	0.00
13,700.0	90.24	359.49	11,429.5	2,273.9	-19.9	2,274.0	0.00	0.00	0.00
13,800.0	90.24	359.49	11,429.1	2,373.9	-20.8	2,374.0	0.00	0.00	0.00
13,900.0	90.24	359.49	11,428.7	2,473.9	-21.7	2,474.0	0.00	0.00	0.00
14,000.0	90.24	359.49	11,428.3	2,573.9	-22.6	2,574.0	0.00	0.00	0.00
14,100.0	90.24	359.49	11,427.8	2,673.9	-23.5	2,674.0	0.00	0.00	0.00
14,200.0	90.24	359.49	11,427.4	2,773.9	-24.4	2,774.0	0.00	0.00	0.00
14,300.0	90.24	359.49	11,427.0	2,873.9	-25.3	2,874.0	0.00	0.00	0.00
14,400.0	90.24	359.49	11,426.6	2,973.9	-26.1	2,974.0	0.00	0.00	0.00
14,500.0	90.24	359.49	11,426.1	3,073.9	-27.0	3,074.0	0.00	0.00	0.00
14,600.0	90.24	359.49	11,425.7	3,173.9	-27.9	3,174.0	0.00	0.00	0.00
14,700.0	90.24	359.49	11,425.3	3,273.9	-28.8	3,274.0	0.00	0.00	0.00
14,800.0	90.24	359.49	11,424.9	3,373.9	-29.7	3,374.0	0.00	0.00	0.00
14,900.0	90.24	359.49	11,424.4	3,473.9	-30.6	3,474.0	0.00	0.00	0.00
15,000.0	90.24	359.49	11,424.0	3,573.9	-31.5	3,574.0	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Gazelle 22 B3NC Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3498.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3498.0usft (Original Well Elev)
Site:	Gazelle 22 B3NC Fed Com #1H	North Reference:	Grid
Well:	Sec 22, T23S, R34E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 1700' FWL		
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)
15,100.0	90.24	359.49	11,423.6	3,673.9	-32.4	3,674.0	0.00	0.00	0.00
15,200.0	90.24	359.49	11,423.1	3,773.9	-33.3	3,774.0	0.00	0.00	0.00
15,300.0	90.24	359.49	11,422.7	3,873.9	-34.2	3,874.0	0.00	0.00	0.00
15,400.0	90.24	359.49	11,422.3	3,973.9	-35.0	3,974.0	0.00	0.00	0.00
15,500.0	90.24	359.49	11,421.9	4,073.9	-35.9	4,074.0	0.00	0.00	0.00
15,600.0	90.24	359.49	11,421.4	4,173.8	-36.8	4,174.0	0.00	0.00	0.00
15,700.0	90.24	359.49	11,421.0	4,273.8	-37.7	4,274.0	0.00	0.00	0.00
15,800.0	90.24	359.49	11,420.6	4,373.8	-38.6	4,374.0	0.00	0.00	0.00
15,900.0	90.24	359.49	11,420.2	4,473.8	-39.5	4,474.0	0.00	0.00	0.00
16,000.0	90.24	359.49	11,419.7	4,573.8	-40.4	4,574.0	0.00	0.00	0.00
16,100.0	90.24	359.49	11,419.3	4,673.8	-41.3	4,674.0	0.00	0.00	0.00
16,200.0	90.24	359.49	11,418.9	4,773.8	-42.2	4,774.0	0.00	0.00	0.00
16,300.0	90.24	359.49	11,418.5	4,873.8	-43.0	4,874.0	0.00	0.00	0.00
16,400.0	90.24	359.49	11,418.0	4,973.8	-43.9	4,974.0	0.00	0.00	0.00
16,407.2	90.24	359.49	11,418.0	4,981.0	-44.0	4,981.2	0.00	0.00	0.00

BHL: 100' FNL & 1700' FWL

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SL: 200' FSL & 1700' FV - hit/miss target - Shape - Point	0.00	0.00	0.0	0.0	0.0	467,930.00	810,929.00	32.2834002	-103.4609705
KOP @ 10960' - plan hits target center - Point	0.00	0.00	10,960.0	-190.0	2.0	467,740.00	810,931.00	32.2828779	-103.4609690
FTP: 100' FSL & 1700' F - plan hits target center - Point	0.00	0.00	11,239.2	-100.0	1.2	467,830.00	810,930.20	32.2831253	-103.4609692
BHL: 100' FNL & 1700' F - plan hits target center - Point	0.00	0.00	11,418.0	4,981.0	-44.0	472,911.00	810,885.00	32.2970917	-103.4609817
LP: 490' FSL & 1700' FV - plan hits target center - Point	0.00	0.00	11,438.0	290.0	-2.3	468,220.02	810,926.73	32.2841974	-103.4609702