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

APPLICATION OF MEWBOURNE OIL COMPANY FOR COMPULSORY POOLING, EDDY AND LEA COUNTIES, NEW MEXICO

**Case No. 21248** 

# MEWBOURNE OIL COMPANY'S HEARING EXHIBITS

#### Compulsory Pooling Checklist

Exhibit A	Self-Affirmed Statement of Mitch Robb
A-1	Application
A-2	Midland Map
A-3	C-102
A-4	Plat of Tracts
A-5	Unit Recapitulation
A-6	List of Tract Ownership and Pooled Parties
A-7	Well Proposal Letter
A-8	Summary of Communications
A-9	Exhibit A to Joint Operating Agreement
A-10	Proposed Notice of Hearing
A-11	Hearing Notice Letter and Return Receipts
A-12	Affidavits of Publication
A-13	Authorization for Expenditures

## Exhibit B Self-Affirmed Statement of Charles Crosby

- B-1 General Location Map
- B-2 Structure Map
- B-3 Gross Isopach Map
- B-4 Cross Section
- B-5 Production Table
- B-6 Well Planning Report

# **COMPULSORY POOLING APPLICATION CHECKLIST (pdf)**

## ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS

Case: #21248	APPLICANT'S RESPONSE				
Date: May 12, 2020					
Applicant	Mewbourne Oil Company				
Designated Operator & OGRID (affiliation if applicable)	Mewbourne Oil Company, OGRID 14744				
Applicant's Counsel:	Hinkle Shanor LLP, Dana S. Hardy				
Case Title:	APPLICATION OF MEWBOURNE OIL COMPANY FOR COMPULSORY POOLING, EDDY AND LEA COUNTIES NEW MEXICO				
Entries of Appearance/Intervenors:	XTO Energy, Inc.				
Well Family	Castle Black				
Formation/Pool					
Formation Name(s) or Vertical Extent:	Bone Spring Formation				
Primary Product (Oil or Gas):	Oil				
Pooling this vertical extent:	Bone Spring Formation				
Pool Name and Pool Code:	Young Bone Spring North Pool, Code 65350				
Well Location Setback Rules:	Standard Oil, 100' setback				
Spacing Unit Size:	40 acres				
Spacing Unit					
Type (Horizontal/Vertical)	Horizontal				
Size (Acres)	240.95 acres				
Building Blocks:	40 acres				
Orientation:	East to West				
Description: TRS/County	S/2NW/4 of Section 6-T18S-R32E, Lea County S/2N/2 of Section 1-T18S-R31, Eddy County				
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes				
Other Situations					
Depth Severance: Y/N. If yes, description	No				
Proximity Tracts: If yes, description	No				
Proximity Defining Well: if yes, description	No				
Applicant's Ownership in Each Tract	Exhibit A-6				
Well(s)					
Name & API (if assigned), surface and bottom hole location, ootages, completion target, orientation, completion status standard or non-standard)					

Well #1	Castle Black 6/1 B2FE Fed Com #1H (API #
	unassigned); SHL: 1700' FNL & 2500' FEL (Sec. 6); BHL:
	2050' FNL & 100' FWL (Section 1); laydown; standard
Well #2	
Well #2	
Horizontal Well First and Last Take Points	ETD 2050 5NH 8 25 40 5NH (6 6) 170 2050 5NH 8
Horizontal Well First and Last Take Points	FTP: 2050' FNL & 2540' FWL (Sec. 6); LTP: 2050' FNL & 100' FWL (Sec. 1)
Completion Target (Formation, TVD and MD)	Bone Spring Formation; TVD: 8,603'; MD: 16,430'
AFE Capex and Operating Costs	
Drilling Supervision/Month \$	\$8,000, Exhibit A
Production Supervision/Month \$	\$800, Exhibit A
Justification for Supervision Costs	Exhibit A
Requested Risk Charge	200%, Exhibit A
Notice of Hearing	
Proposed Notice of Hearing	Exhibit A-10
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit A-11
Proof of Published Notice of Hearing (10 days before hearing)	Exhibit A-12
Ownership Determination	
Land Ownership Schematic of the Spacing Unit	Exhibit A-4
Tract List (including lease numbers and owners)	Exhibit A-4
Pooled Parties (including ownership type)	Exhibit A-6
Unlocatable Parties to be Pooled	N/A
Ownership Depth Severance (including percentage above & belo	ov N/A
loinder	
Sample Copy of Proposal Letter	Exhibit A-7
List of Interest Owners (ie Exhibit A of JOA)	Exhibit A-9
Chronology of Contact with Non-Joined Working Interests	Exhibit A-8
Overhead Rates In Proposal Letter	Exhibits A, A-7

Cost Estimate to Drill and Complete	Exhibit A-13		
Cost Estimate to Equip Well	Exhibit A-13		
Cost Estimate for Production Facilities	Exhibit A-13		
Geology			
Summary (including special considerations)	Exhibit B		
Spacing Unit Schematic	Exhibits B-1, B-2		
Gunbarrel/Lateral Trajectory Schematic	Exhibit B-6		
Well Orientation (with rationale)	Exhibit B		
Target Formation	Exhibit B		
HSU Cross Section	Exhibit B-4		
Depth Severance Discussion	Exhibit B		
Forms, Figures and Tables			
C-102	Exhibit A-3		
Tracts	Exhibit A-4		
Summary of Interests, Unit Recapitulation (Tracts)	Exhibits A-4, A-5, A-6		
General Location Map (including basin)	Exhibit B-1		
Well Bore Location Map	Exhibits B-1, B-2		
Structure Contour Map - Subsea Depth	Exhibit B-2		
Cross Section Location Map (including wells)	Exhibit B-2		
Cross Section (including Landing Zone)	Exhibit B-4		
Additional Information			

12-May-20

**Printed Name** (Attorney or Party Representative):

**Signed Name** (Attorney or Party Representative):

Date:

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

APPLICATION OF MEWBOURNE OIL COMPANY FOR COMPULSORY POOLING, EDDY AND LEA COUNTIES, NEW MEXICO

Case No. 21248

# SELF-AFFIRMED STATEMENT OF MITCH ROBB

- 1. I am over 18 years of age and am competent to provide this Self-Affirmed Statement. I have personal knowledge of the matters addressed herein.
- 2. I am a landman for Mewbourne Oil Company ("Mewbourne"). I have had direct involvement with Mewbourne's development of the 240.95-acre, more or less, standard horizontal spacing unit ("HSU") that is the subject of Mewbourne's application in this case. A copy of the application is attached as Exhibit A-1.
- 3. I have previously testified before the Division, and my qualifications as an expert in petroleum land matters were accepted.

#### A. Proposed Horizontal Spacing Unit

- 4. The proposed HSU is comprised of the S/2 NW/4 of Section 6, Township 18 South, Range 32 East in Lea County and the S/2 N/2 of Section 1, Township 18 South, Range 31 East in Eddy County, New Mexico. A Midland Map depicting the proposed HSU is attached as Exhibit A-2.
- 5. Mewbourne seeks to pool all uncommitted interests in the Bone Spring formation underlying the HSU.

Case No. 21248

MEWBOURNE OIL

Exhibit A

- 6. The HSU will be dedicated to the Castle Black 6/1 B2FE Fed Com #1H well, which will be horizontally drilled from a surface location in Unit G in Section 6 to a bottom hole location in Unit E in Section 1.
- 7. The first take point for the Castle Black 6/1 B2FE Fed Com #1H well is 2050' FNL and 2540' FWL in Section 6, and the last take point is 2050' FNL and 100' FWL in Section 1. The target interval is the Second Bone Spring Sand at 8,603' TVD and 16,430' TMD.
- 8. The proposed well will be completed from East to West, and the completed interval of the well will be orthodox.
- 9. The proposed well is located in the Young Bone Spring North Pool, Code 65350. The primary product in the pool is oil. With respect to well setback requirements, this pool is subject to the statewide horizontal well rules set out in NMAC 19.15.16.15. Spacing in this pool is based on quarter-quarter sections, and the HSU is constructed based on quarter-quarter sections.
  - 10. The C-102 for the proposed well is attached as Exhibit A-3.

#### **B.** Ownership Determination

- 11. A plat of the tracts included in the HSU and the associated ownership interests is attached as Exhibit A-4, and a recapitulation is attached as Exhibit A-5.
  - 12. A list of the tract ownership is attached as Exhibit A-6.
  - 13. A list of the pooled parties is included in Exhibit A-6.
  - 14. There is no depth severance in the Bone Spring formation in the proposed HSU.
  - 15. Mewbourne has the right to pool any overriding royalty owners in the HSU.

#### C. Joinder

16. I sent well proposal letters to the uncommitted interests on January 10, 2020. I subsequently had follow-up communications with them. My well proposal letter is attached as

- Exhibit A-7. A summary of my follow-up contacts with the uncommitted interests is attached as Exhibit A-8.
- 17. A list of interest owners (Exhibit A to Joint Operating Agreement) is attached as Exhibit A-9.
  - 18. 76.787416% of the working interests are committed to the proposed well.
- 19. In my opinion, Mewbourne has made a good faith effort to obtain the voluntary joinder of uncommitted interests in the proposed wells.

#### D. Notice of Hearing

- 20. Mewbourne's proposed notice of hearing is attached as Exhibit A-10.
- 21. At my direction, notice of Mewbourne's application and the Division hearing was provided to the uncommitted interests at least 20 days prior to the hearing date. The notice letter and associated receipts are attached as Exhibit A-11.
- 22. Notice of Mewbourne's application and the Division hearing was published more than ten business days prior to the hearing date. The affidavits of publication are attached as Exhibit A-12.
- 23. Mewbourne conducted a diligent, good-faith effort to identify the correct addresses of persons entitled to notice and has complied with the Division's notice requirements.

#### E. Drilling and Operating Costs

- 24. The AFEs for the proposed wells are attached as Exhibit A-13. The estimated cost of the well is fair and reasonable and is comparable to the cost of other wells of similar depth and length drilled in Lea and Eddy Counties.
- 25. Mewbourne requests overhead and administrative rates of \$8,000 per month while the well is being drilled and \$800 per month while the well is producing. These rates are fair and

are also the rates set forth in the Joint Operating Agreement for the HSU. Mewbourne further requests that the rates be adjusted periodically in accordance with the COPAS Accounting Procedure.

- 26. Mewbourne requests that it be designated the operator of the well.
- 27. Mewbourne also requests that a 200% risk charge be assessed against the uncommitted interests if they are non-consenting working interest owners.
- 28. The attached exhibits attached were either prepared by me or under my supervision, or were compiled from company business records.
- 29. In my opinion, the granting of Mewbourne's application would serve the interests of conservation and the prevention of waste.
- 30. I understand that this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony in paragraphs 1 through 29 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.

Mitch Robb O5/11/2020

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

APPLICATION OF MEWBOURNE OIL COMPANY FOR COMPULSORY POOLING, LEA AND EDDY COUNTIES, NEW MEXICO

Case No. 2/248

**APPLICATION** 

Pursuant to NMSA § 70-2-17, Mewbourne Oil Company ("Mewbourne") applies for an order pooling all uncommitted mineral interests in the Bone Spring formation in a 240.95-acre, more or less, standard horizontal spacing unit comprised of the S/2 NW/4 of Section 6, Township 18 South, Range 32 East in Lea County and the S/2 N/2 of Section 1, Township 18 South, Range 31 East in Eddy County, New Mexico. In support of its application, Mewbourne states the following.

- 1. Mewbourne (OGRID No. 14744) is a working interest owner in the proposed horizontal spacing unit and has the right to drill a well thereon.
- 2. The horizontal spacing unit will be dedicated to the Castle Black 6/1 B2FE Fed Com #1H well, which will be horizontally drilled from a surface location in Unit G in Section 6 to a bottom hole location in Unit E in Section 1.
  - 3. The completed interval for the well will be orthodox.
- 4. Mewbourne has undertaken diligent, good-faith efforts to obtain voluntary agreements from all mineral interest owners to participate in the drilling of the well, but has been unable to obtain voluntary agreements from all of the mineral interest owners.
- 5. The pooling of all uncommitted mineral interests in the Bone Spring formation underlying the S/2 NW/4 of Section 6 and the S/2 N/2 of Section 1 will avoid the drilling of unnecessary wells, prevent waste, and protect correlative rights.

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MEWBOURNE OIL

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6. In order to allow Mewbourne to obtain its just and fair share of the oil and gas underlying the subject lands, all uncommitted mineral interests in the horizontal spacing unit should be pooled.

WHEREFORE, Mewbourne requests that this application be set for hearing on May 14, 2020 and that, after notice and hearing, the Division enter an order:

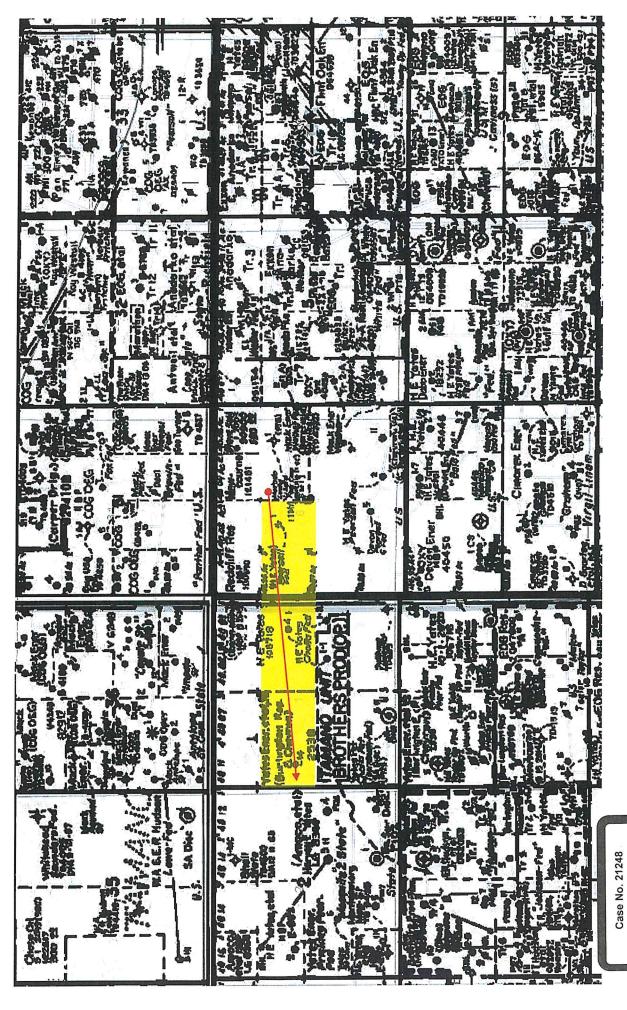
- A. Pooling all uncommitted mineral interests in the Bone Spring formation underlying the S/2 NW/4 of Section 6, Township 18 South, Range 32 East in Lea County and the S/2 N/2 of Section 1, Township 18 South, Range 31 East in Eddy County;
- B. Designating Mewbourne as the operator of the Castle Black 6/1 B2FE Fed Com #1H well;
- C. Authorizing Mewbourne to recover its costs of drilling, equipping, and completing the Castle Black 6/1 B2FE Fed Com #1H well and allocating the costs among the well's working interest owners;
- D. Approving the actual operating charges and costs of supervision during drilling and after completion, together with a provision for adjusting the rates pursuant to the COPAS accounting procedure; and
- E. Imposing a 200% penalty for the risk assumed by Mewbourne in drilling and completing the Castle Black 6/1 B2FE Fed Com #1H well against any mineral interest owner who does not voluntarily participate in the drilling of the well.

#### Respectfully submitted,

#### HINKLE SHANOR LLP

/s/ Dana S. Hardy
Dana S. Hardy
Dioscoro "Andy" Blanco
P.O. Box 2068
Santa Fe, NM 87504-2068
Phone: (505) 982-4554
Facsimile: (505) 982-8623
dhardy@hinklelawfirm.com
dblanco@hinklelawfirm.com

Counsel for Mewbourne Oil Company



MEWBOURNE OIL Exhibit A-2

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**MEWBOURNE OIL** Exhibit A-3

orm C-102

☐ AMENDED REPORT

Revisea August 1, 2011 Submit one copy to appropriate District Office

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 Prione: (375) 748-1285 Fax: (375) 746-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

WELL LO	CATION AND ACREAG	E DEDICATION PLAT
	n 10 1	3 Paul Name

			WE	LL L	OCA?	TION AND	ACR	EAGE DEDIC	CATION PLA	.1		
1	API Number	per 2 Pool Code					<sup>3</sup> Pool Na	me				
<sup>4</sup> Property Co	de						perty Na				6 Well Number	
444				C	ASTL	E BLACK	6/1	B2FE FED	COM			1H
7OGRID 1	VO.						crator Na				9	Elevation
					MI	EWBOURNE	E OII	L COMPANY				3831'
<sup>10</sup> Surface Location												
UL or lot no.	Section	Townsh	nip	Range	Lot I	dn Feet from	n the	North/South line	Feet From the	East/We	est line	County
G	6	18S	(	32E		1700 NORTH 2500 EAST LE					LEA	
	11 Bottom Hole Location If Different From Surface											
UL or lot no.	Section	Townsl	nip	Range	Lot I	in Feet from	n the	North/South line	Feet from the	East/We	est line	County
E	1	18S	3	31E		205	0	NORTH	100	WE	ST	EDDY
12 Dedicated Acres	13 Joint	or Infill	14 Con	solidation	Code	15 Order No.						

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

GEODETIC DATA  NAD 83 GRID — NM EAST  SURFACE LOCATION  N: 647615.9 — E: 703622.8  LAT: 32.7792164' N  LONG: 103.8053010' W  BOTTOM HOLE LOCATION  N: 647218.2 — E: 695632.8  LAT: 32.7782300' N  LONG: 103.8313034' W   N 89'34'35" E 2640.05'	CORNER DATA  NAD 83 GRID — NM EAST  A: FOUND BRASS CAP "1916" N: 643983.4 — E: 695551.7  B: FOUND BRASS CAP "1916" N: 646622.9 — E: 695536.5  C: FOUND BRASS CAP "1916" N: 649266.9 — E: 695520.0  D: FOUND BRASS CAP "1916" N: 649286.4 — E: 698159.4  E: FOUND BRASS CAP "1913" N: 649306.3 — E: 700801.5  F: FOUND BRASS CAP "1913" N: 649315.1 — E: 703470.5  3" W 2642.74' © N 89'48'37" 1	G: FOUND BRASS CAP "1913" N: 649324.0 - E: 706111.0  H: FOUND 1" IRON PIPE N: 646678.2 - E: 706128.4 I: FOUND BRASS CAP "1913" N: 644040.6 - E: 706142.9 J: FOUND BRASS CAP "1913" N: 644031.5 - E: 703505.2 K: FOUND BRASS CAP "1913" N: 644024.0 - E: 700832.1 L: FOUND BRASS CAP "1916" N: 644003.4 - E: 698192.6 M: FOUND BRASS CAP "1913" N: 646666.0 - E: 700816.4  E 2669.71' F N 89'48'23" E 2641.06' (3)  LOT 3	17 OPERATOR CERTIFICATION  I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  Signature  Date  Printed Name  E-mail Address  18 SURVEYOR CERTIFICATION  I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  10-30-2019  Date of Survey  Signature and Seal of processing Survey  Signature and Seal of processing Survey  Signature and Seal of processing Survey  Signature Survey  Certificate Number
S 89'34'00" W 2641.52' () S 89'33'0	1 33" W 2640.22' (K) N 89'50'22" E	2673.70' (J) N 89'48'08" E 2638.41'(1)	RRC-Job No.: LS19101047

#### Section Plat

#### Castle Black 6/1 B2FE Fed Com #1H S/2N/2 of Section 1 & S/2NW/4 of Section 6

#### T18S-R31E, Eddy County, NM

#### T18S-R32E, Lea County, NM

	Sec	tion 1	Section 6		
9					
Tract 1	Tract 2	Tract 3	Tract 4		
	<u> </u>				

#### Tract 1: SW/4NW/4 of Section 1 - Federal Lease NM 2538

Mewbourne Oil Company
Marathon Oil Permian LLC
Nadel and Gussman Capitan, LLC
Jalepeno Corporation
MRC Delaware Resources LLC
MRC Explorers Resources LLC
MRC Spiral Resources LLC
Yates Energy Corporation

#### Tract 2: SE/4NW/4 of Section 1 - Federal Lease NM 2538

Mewbourne Oil Company
Nadel and Gussman Capitan, LLC
Jalepeno Corporation
MRC Delaware Resources LLC
MRC Explorers Resources LLC
MRC Spiral Resources LLC
Yates Energy Corporation

#### Tract 3: S/2NE/4 of Section 1 - Federal Lease NM 106718

Mewbourne Oil Company
Nadel and Gussman Capitan, LLC
Jalepeno Corporation
MRC Delaware Resources LLC
MRC Explorers Resources LLC
MRC Spiral Resources LLC
Yates Energy Corporation

Mewbourne Oil Company

#### Tract 4: S/2NW/4 of Section 6 - Federal Lease NM 111242

Marathon Oil Permian LLC
MRC Delaware Resources LLC
MRC Explorers Resources LLC
MRC Spiral Resources LLC
Occidental Permian Limited Partnership
Patricia Ann Brunson
Redeliff Resources, L.C.
XTO Holdings LLC

Case No. 21248

MEWBOURNE OIL Exhibit A-4

#### RECAPITUALTION FOR CASTLE BLACK 6/1 B2FE FED COM #1H

Tract Number	Number of Acres Committeed	Percentage of Interst in Communitized Area 16.600955%		
1	40			
2	40	16.600955%		
3	80	33.201908%		
4 80.95		33.596182%		
TOTAL	240.95	100.000000%		

#### T18S-R31E, Eddy County, NM

#### T18S-R32E, Lea County, NM

Tract 2	Tract 3	Tract 4	
	Tract 2	Tract 2 Tract 3	Tract 2 Tract 3 Tract 4

Case No. 21248

MEWBOURNE OIL

Exhibit A-5

#### TRACT OWNERSHIP

Castle Black 6/1 B2FE Fed Com #1H S/2N/2 of Section 1-T18S-R31E, Eddy County, NM & S/2NW/4 of Section 6-T18S-R32E, Lea County, NM

#### S/2N/2 of Section 1 & S/2NW/4 of Section 6 Bone Spring Formation:

Owner	% of Leasehold Interest
Mewbourne Oil Company, et al.	76.787416%
*Yates Energy Corporation	10.581372%
P.O. Box 2323	
Roswell, NM 88202	
*Occidental Permian Limited Partnership	6.014220%
5 Greenway Plaza, Suite 110	
Houston, Texas 77046	
*Marathon Oil Permian LLC	5.325438%
5555 San Felipe St.	
Houston, TX 77056	
*Nadel and Gussman Capitan, LLC	1.291554%
15 East 5th Street, Ste. 3300	
Tulsa, OK 74103-4340	
TOTAL	100.000000%

**Total Interest Being Pooled:** 

23.212584%

#### OWNERSHIP BY TRACT

Owner	% of Leasehold Interest
Mewbourne Oil Company, et al.	59.084005%
Marathon Oil Permian LLC	23.036110%
Nadel and Gussman Capitan, LLC	1.945000%
Yates Energy Corporation	15.934885%
TOTAL	100.000000%

#### SE/4NW/4 of Section 1

Owner	% of Leasehold Interest
Mewbourne Oil Company, et al.	82.120115%
Nadel and Gussman Capitan, LLC	1.945000%
Yates Energy Corporation	15.934885%
TOTAL	100.000000%

#### S/2NE/4 of Section 1

Owner	% of Leasehold Interest
Mewbourne Oil Company, et al.	82.120115%
Nadel and Gussman Capitan, LLC	1.945000%
Yates Energy Corporation	15.934885%
TOTAL	100.000000%

#### S/2NW/4 of Section 6

Owner	% of Leasehold Interest
Mewbourne Oil Company, et al.	77.630065%
Marathon Oil Permian LLC	4.468435%
Occidental Permian Limited Partnership	17.901500%
TOTAL	100.000000%

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MEWBOURNE OIL

Exhibit A-6

#### MEWBOURNE OIL COMPANY

FASKEN CENTER 500 WEST TEXAS, SUITE 1020 MIDLAND, TX 79701

TELEPHONE (432) 682-3715

January 10, 2020

#### Via Certified Mail

Marathon Oil Permian LLC 5555 San Felipe St. Houston, TX 77056 Attn: Matt Brown

Re: Castle Black 6/1 B2FE Fed Com #1H 1700' FNL & 2500' FEL (Section 6) 2050' FNL & 100' FWL (Section 1)

> Winterfell 6/5 B2GH Fed Com #1H 1730' FNL & 2500' FEL (Section 6) 2050' FNL & 100' FEL (Section 5)

> Winterfell 5/6 B2IJ Fed Com #1H 1270' FSL & 455' FEL (Section 5) 1980' FNL & 2540' FEL (Section 6)

Winterfell 5/6 B2PO Fed Com #1H 1240' FSL & 455' FEL (Section 5) 500' FSL & 2540' FEL (Section 6)

Section 1, T18S, R31E, Eddy County, New Mexico Sections 5 & 6, T18S, R32E, Lea County, New Mexico Case No. 21248

MEWBOURNE OIL Exhibit A-7

#### Ladies and Gentlemen,

Mewbourne Oil Company ("Mewbourne") as Operator hereby proposes to form a 1924.56 acre Working Interest Unit ("WIU") covering the All of the captioned Sections 1, 5, and 6 for oil and gas production, by amending the proposed Operating Agreement dated June 1, 2019 ("JOA"), covering the N/2 of the captioned Sections 1 and the NW/4 and W/2NE/4 of the captioned Section 6 (mailed via letter dated May 28, 2019). The targeted interval for the proposed unit is the Bone Spring formation.

Mewbourne as Operator hereby proposes to drill the captioned Castle Black 6/1 B2FE Fed Com #1H well at the above referenced surface location (SL) to the referenced bottom hole location (BHL). The proposed well will be drilled to an approximate true vertical depth (TVD) of 8,568 feet subsurface to evaluate the Second Bone Spring Sand Formation. The proposed well will have a measured depth (MD) of approximately 14,906 feet. The S/2NW/4 of the captioned Section 6 and the S/2N/2 of the captioned Section 1 will be dedicated to the well as the proration unit.

Mewbourne as Operator hereby proposes to drill the captioned Winterfell 6/5 B2GH Fed Com #1H well at the above referenced surface location (SL) to the referenced bottom hole location (BHL). The proposed well will be drilled to an approximate true vertical depth (TVD) of 8,568 feet subsurface to evaluate the Second Bone Spring Sand Formation. The proposed well will have a measured depth (MD) of approximately 14,906 feet. The S/2NE/4 of the captioned Section 6 and the S/2N/2 of the captioned Section 5 will be dedicated to the well as the proration unit.

Mewbourne as Operator hereby proposes to drill the captioned Winterfell 6/5 B2IJ Fed Com #1H well at the above referenced surface location (SL) to the referenced bottom hole location (BHL). The proposed well will be drilled to an approximate true vertical depth (TVD) of 8,630 feet subsurface to evaluate the Second Bone Spring Sand Formation. The proposed well will have a measured depth (MD) of approximately 16,300 feet. The N/2N/2 of the captioned Section 5 and the N/2SE/4 of the captioned Section 6 will be dedicated to the well as the proration unit.

Mewbourne as Operator hereby proposes to drill the captioned Winterfell 6/5 B2PO Fed Com #1H well at the above referenced surface location (SL) to the referenced bottom hole location (BHL). The proposed well will be drilled to an approximate true vertical depth (TVD) of 8,750 feet subsurface to evaluate the Second Bone Spring Sand Formation. The proposed well will have a measured depth (MD) of approximately 16,429 feet. The S/2N/2 of the captioned Section 5 and the S/2SE/4 of the captioned Section 6 will be dedicated to the well as the proration unit.

Regarding the above, enclosed for your further handling are our AFEs dated November 26, 2019 for the captioned proposed wells and replacement pages to the JOA, amending the Contract Area. Please sign and return said AFEs and extra set of JOA signature pages for the (previously provided) at your earliest convenience if you elect to participate in the captioned well and WIU and return to me within thirty (30) days.

Should you have any questions regarding the above, please email me at <a href="mailto:mrobb@mewbourne.com">mrobb@mewbourne.com</a> or call me at (432) 682-3715.

Sincerely,

MEWBOURNE OIL COMPANY

Mitch Robb Landman

211-82

# Summary of Communications Castle Black 6/1 B2FE Fed Com #1H S/2N/2 of Section 1-T18S-R31E, Eddy County, NM & S/2NW/4 of Section 6-T18S-R32E, Lea County, NM

#### Marathon Oil Permian LLC:

05/28/2019: Mailed Working Interest Unit, Well Proposal and Joint Operating Agreement to the above listed party.

06/05/2019: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

01/10/2020: Mailed Well Proposal and JOA replacement pages to the above listed party.

Ongoing: Mewbourne is currently negotiating with Marathon to acquire their interest.

#### **Yates Energy Corporation:**

01/07/2019: Correspondence with above listed party regarding Working Interest Unit.

12/11/2019: Mailed a Working Interest Unit and Well Proposal to the above listed party.

03/14/2019: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

05/28/2019: Mailed Joint Operating Agreement to the above listed party.

06/04/2019: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

06/24/2019: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

07/02/2019: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

07/29/2019: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

08/09/2019: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

08/21/2019: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

01/10/2020: Mailed Well Proposal and JOA replacement pages to the above listed party.

Ongoing: Mewbourne is currently negotiating with Yates Energy Corporation to acquire all or a portion of their interest.

#### Occidental Permian Limited Partnership:

01/04/2019: Left message with above listed party regarding Working Interest Unit.

01/11/2019: Mailed a Working Interest Unit and Well Proposal to the above listed party.

04/22/2019: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

05/28/2019: Mailed Joint Operating Agreement to the above listed party.

05/30/2019: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

06/04/2019: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

06/24/2019: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

07/02/2019: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

09/03/2019: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

01/10/2020: Mailed Well Proposal and JOA replacement pages to the above listed party.

01/15/2020: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

01/22/2020: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

#### Nadel and Gussman Capitan, LLC:

04/09/2019: Mailed Working Interest Unit, Well Proposal and Joint Operating Agreement to the above listed party.

06/20/2019: Mewbourne acquired above party's interest in Section 6.

01/10/2020: Mailed Well Proposal and JOA replacement pages to the above listed party.

01/20/2020: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

01/22/2020: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

02/11/2020: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

02/26/2020: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

Case No. 21248

MEWBOURNE OIL

Exhibit A-8

#### EXHIBIT "A"

Attached to and made a part of that certain Operating Agreement dated June 1, 2019, by and between Mewbourne Oil Company, as Operator, and MRC Delaware Resources LLC, et al, as Non-Operators.

#### LANDS SUBJECT TO THIS AGREEMENT

Township 18 South, Range 31 East, NMPM, Eddy County, New Mexico Section 1: All

Township 18 South, Range 32 East, NMPM, Lea County, New Mexico Section 5: All Section 6: All

Containing 1924.56 gross acres, more or less

#### 2. <u>DEPTH RESTRICTIONS AND EXCLUSIONS</u>

5,500' to 9,150'

#### 3. ADDRESSES OF THE PARTIES

Mewbourne Oil Company 500 West Texas, Suite 1020 Midland, Texas 79701 Attn: Land Department Phone: (432) 682-3715

Yates Energy Corporation P.O. Box 2323 Roswell, NM 88202

XTO Energy Inc. 810 Houston Street Fort Worth, TX 76102

Redcliff Resources, LC P.O. Box 4848 Wichita Falls, TX 76308-0848

Patricia Ann Brunson 4205 Lankford Ave Springdale, AR 72762

Chase Oil Corporation PO Box 1767 Artesia, NM 88211

Platform Energy III, LLC PO Box 2078 Abilene, TX 79604 MRC Delaware Resources LLC, MRC Explorers Resources LLC, & MRC Spiral Resources, LLC 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Marathon Oil Permian LLC 5555 San Felipe St. Houston, TX 77056

Occidental Permian Limited Partnership & Anadarko E&P Onshore LLC 5 Greenway Plaza, Suite 110 Houston, Texas 77046 Phone: (713) 215-7383 Attn: Land Manager

Jalapeno Corporation PO BOX 484 Albuquereque, NM 87103

Nadel and Gussman Capitan, LLC 15 East 5th Street, Ste. 3300 Tulsa, OK 74103-4340

RKI Exploration & Production LLC 3500 One Williams Center, Suite 3500 Tulsa, OK 74172 Attn: Aaron Young Phone: 539-573-3531

Nadel and Gussman Capitan, LLC 15 East 5th Street, Ste. 3300 Tulsa, OK 74103-4340

Case No. 21248

MEWBOURNE OIL Exhibit A-9

Case No. \_\_\_\_\_\_\_: Application of Mewbourne Oil Company for compulsory pooling, Lea and Eddy Counties, New Mexico. Applicant seeks an order pooling all uncommitted mineral interests in the Bone Spring formation in a 240.95-acre, more or less, standard horizontal spacing unit comprised of the S/2 NW/4 of Section 6, Township 18 South, Range 32 East in Lea County and the S/2 N/2 of Section 1, Township 18 South, Range 31 East in Eddy County. The horizontal spacing unit will be dedicated to the Castle Black 6/1 B2FE Fed Com #1H well, which will be horizontally drilled from a surface location in Unit G in Section 6 to a bottom hole location in Unit E in Section 1. The completed interval for the well will be orthodox. Also to be considered will be the costs of drilling and completing the well and the allocation of the costs, the designation of Mewbourne Oil Company as the operator of the well, and a 200% charge for the risk involved in drilling and completing the well. The well is located approximately six (6) miles southwest of

Maljamar, New Mexico.

Case No. 21248

MEWBOURNE OIL

Exhibit A-10



#### HINKLE SHANOR LLP

ATTORNEYS AT LAW PO BOX 2068 SANTA FE, NEW MEXICO 87504 505-982-4554 (FAX) 505-982-8623

April 20, 2020

WRITER:

Dana S. Hardy, Partner dhardy@hinklelawfirm.com

#### VIA CERTIFIED MAIL

Marathon Oil Permian LLC 5555 San Felipe St. Houston, TX 77056 Attn: Travis Prewett

> Re: Mewbourne Oil Company NMOCD Application

Dear Mr. Prewett:

Enclosed is a copy of an application for compulsory pooling that Mewbourne Oil Company ("Mewbourne") has filed with the New Mexico Oil Conservation Division ("the Division"). Mewbourne's application (Case No. 21248) seeks the pooling of all uncommitted mineral interests in the Bone Spring formation in a standard 240.95-acre horizontal spacing unit comprised of the S/2 NW/4 of Section 6, Township 18 South, Range 32 East in Lea County and the S/2 N/2 of Section 1, Township 18 South, Range 31 East in Eddy County, New Mexico. The horizontal spacing unit will be dedicated to the Castle Black 6/1 B2FE Fed Com #1H well.

During the COVID-19 Public Health Emergency, state buildings are closed to the public and hearings will be conducted remotely. The hearing will be conducted on May 14, 2020 beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted on the OCD Hearings website: http://www.emnrd.state.nm.us/OCD/announcements.html. Marathon Oil Permian LLC ("Marathon") is not required to attend the hearing, but as an owner of an interest that may be affected by Mewbourne's application, it may appear at the hearing and present testimony. If Marathon does not appear at that time and become a party of record, it will be precluded from contesting the matter at a later date.

A party appearing in a Division case is required by the Division's Rules to file a Pre-Hearing Statement, which in this matter must be filed no later than Thursday, May 7, 2020. The Pre-Hearing Statement must be filed with the Division and should include: the name of the party and the party's attorney; a concise statement of the case; the name(s) of the witness(es) the party will call to testify at the hearing; the approximate amount of time the party will need to present the party's case; and an identification of any procedural matters that need to be resolved prior to the hearing. The Pre-Hearing Statement must also be provided to me.

Thank you for your attention to this matter.

Enclosure

(FAX) 575-623-9332

PO BOX 1720 ARTESIA, NEW MEXICO 88211 575-622-6510 (FAX) 575-746-6316

PO BOX 2068 SANTA FE, NEW MEXICO 87504 505-982-4554

7601 JEFFERSON ST NE - SUITE 180 ALBUQUERQUE, NEW MEXICO 87109 505-858-8320 (FAX) 505-858-8321

Case No. 21248

PO BOX 10 ROSWELL, NEW MEXICO 88202 575-622-6510

(FAX) 505-982-8623

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Houston, TX 77056	
Attn: Travis Prewett	
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Dallas, TX 75240	
Attn: Nick Weeks	
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HINKLE SHANOR LLP POBOX 10

ROSWELL, NM 88202-0010

I, a legal clerk of the Carlsbad Current Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

04/21/2020

Legal Clerk

Subscribed and sworn before me this April 21, 2020:

State of WI, County of Brown

My commission expires

Ad # 0004159646 PO #: MRC Delaware Resources LLC # of Affidavits1

This is not an invoice

ed parties, including MRC Delaware Resources LLC, MRC Explorers Resources
LLC, MRC Spiral Resources
LLC, Marathon Oil Permian
LLC, Yates Energy Corporation, Occidental Permian Limited Partnership, XTO Holdings LLC, Nadel and Gussman Capitan, LLC, and their successors and assigns, that the New Mexico Oil Conservation Division will conduct a hearing on an application submitted by Mewbourne Oil Company (Case No. 21248). During the COVID-19 Public Health Emergency, state buildings are closed to the public and hearings will be conducted remotely. The hearing will be conducted on May 14, 2020 beginning at 8:15 a.m. To participate in the electronic hearing, see the in-structions posted on the OCD Hearings website: http: //www.emnrd.state.nm.us/O CD/announcements.html. Applicant seeks an order all uncommitted mineral interests in the Bone Spring formation in a standard 240.95-acre horistandard 240.95-acre non-zontal spacing unit com-prised of the S/2 NW/4 of Section 6, Township 18 South, Range 32 East in Lea County and the S/2 N/2 of Section 1, Township 18 South, Range 31 East in Eddy County, New Mexico. The horizontal spacing unit will be dedicated to the Castle Black 6/1 B2FE Fed Com #1H well, which will be horizon-tally drilled from a surface location in Unit G in Section 6 to a bottom hole location in Unit E in Section 1.The completed interval for the well will be orthodox. Also to be considered will be the costs of drilling and com-pleting the well and the allocation of the costs, the designation of Mewbourne Oil Company as the opera-Oil Company as the opera-tor of the well, and a 200% charge for the risk involved in drilling and completing the well. The well is located approximately six (6) miles southwest of Maljamar, southwest New Mexico. #4159646, C April 21, 2020 . Current Argus,

This is to notify all interest-

NANCY HEYRMAN Notary Public State of Wisconsin Case No. 21248

MEWBOURNE OIL
Exhibit A-12

#### **Affidavit of Publication**

STATE OF NEW MEXICO COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

> Beginning with the issue dated April 22, 2020 and ending with the issue dated April 22, 2020.

Publisher

Sworn and subscribed to before me this 22nd day of April 2020.

Business Manager

My commission expires

Seal)

OFFICIAL SEAL
GUSSIE BLACK
Notary Public
State of New Mexico

My Commission Expires

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL

LEGAL

LEGAL NOTICE April 22, 2020

This is, to notify all interested parties, including MRC Delaware Resources LLC, MRC Explorers Resources LLC, MRC Spiral Resources LLC, Marathon Oil Permian LLC, Yates Energy Corporation, Occidental Permian Limited Partnership, XTO Holdings LLC, Nadel and Gussman Capitan, LLC, and their successors and assigns, that the New Mexico Oil Conservation Division will conduct a hearing on an application submitted by Mewbourne Oil Company (Case No. 21248). During the COVID-19 Public Health Emergency, state buildings are closed to the public and hearings will be conducted remotely. The hearing will be conducted on May 14, 2020 beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted on the OCD Hearing see we bsite http://www.emnrd.state.nm.us/OCD/announcements.html-Applicant seeks an order pooling all uncommitted mineral interests in the Bone Spring formation in a standard 240.95-acre horizontal spacing unit comprised of the S/2 NW/4 of Section 6, Township 18 South, Range 32 East in Lea County and the S/2 N/2 of Section 1, Township 18 South, Range 31 East in Eddy County, New Mexico. The horizontal spacing unit will be dedicated to the Castle Black 6/1 B2FE Fed Com #1H well, which will be herizontally drilled from a surface location in Unit Grin Section 6 to a bottom hole location in Unit E in Section 1. The completed interval for the well will be orthodox. Also to be considered will be the costs of drilling and completing the well and the allocation of the costs, the designation of Mewbourne Oil Company as the operator of the well, and a 200% charge for the risk involved in drilling and completing the well. The well is located approximately six (6) miles southwest of Maljamar, New Mexico.

02107475

00241773

HINKLE, HENSLEY, SHANOR & MARTIN, LLP PO BOX 2068 SANTA FE, NM 87504

#### MEWBOURNE OIL COMPANY

AUTHORIZATION FOR EXPENDITURE

Well Name: CASTLE BLACK 6/1 B2FE FED COM #1H	Pro	spect: 2N	D BSS		
Location: SHL: 1700 FNL & 2500 FEL (6); BHL: 2050 FNL & 100 FW	L (1)	County: Le	a		ST: NM
Sec. 6 Blk: Survey:	TWP: 18S	RNG:	32E Prop. TV	D: 8603	TMD: 16430
INTANGIBLE COSTS 0180		CODE	тср	CODE	СС
Regulatory Permits & Surveys		0180-0100	\$10,000	0180-0200	
Location / Road / Site / Preparation		0180-0105		0180-0205	\$25,000
Location / Restoration		0180-0106		0180-0206	\$30,000
Daywork / Turnkey / Footage Drilling 24 days drig / 3 days comp @ \$2150	0/d	0180-0110		0180-0210	\$68,900
Fuel 1700 gal/day @ 2.74/gal Mud, Chemical & Additives		0180-0114		0180-0214	\$240,000
Horizontal Drillout Services	*****************	0180-0120	\$200,000	0180-0220	\$250,000
Cementing		0180-0125	\$100,000	0180-0222	\$30,000
Logging & Wireline Services		0180-0130		0180-0229	\$370,000
Casing / Tubing / Snubbing Service	************	0180-0134		0180-0234	\$90,000
Mud Logging		0180-0137	\$30,000		\$00,000
Stimulation 37 Stg 14.8 MM gal / 14.8 MM I	b		, , , , , , , ,	0180-0241	\$1,275,000
Stimulation Rentals & Other				0180-0242	\$200,000
Water & Other		0180-0145	\$60,000	0180-0245	\$400,000
Bits		0180-0148		0180-0248	\$8,000
Inspection & Repair Services	*************	0180-0150	\$40,000	0180-0250	\$5,000
Misc. Air & Pumping Services		0180-0154		0180-0254	\$10,000
Testing & Flowback Services		0180-0158	\$15,000	0180-0258	\$30,000
Completion / Workover Rig				0180-0260	\$10,500
Rig Mobilization		0180-0164	\$150,000		200 555
Transportation Welding Services		0180-0165		0180-0265	\$20,000
Contract Services & Supervision		0160-0168 0180-0170		0180-0268	\$15,000
Directional Services Supervision Includes Vertical Control		0180-0170	\$39,000	0180-0270	\$70,500
Equipment Rental		0180-0175		0180-0280	\$30,000
Well / Lease Legal	***************************************	0180-0180		0180-0280	φ30,000
Well / Lease Insurance		0180-0184	\$800		
Intangible Supplies		0180-0188	\$8,000		\$10,000
Damages		0180-0190		0180-0290	\$10,000
ROW & Easements		0180-0192	V.5/555	0180-0292	\$5,000
Pipeline Interconnect				0180-0293	\$50,000
Company Supervision		0180-0195	\$124,800	0180-0295	\$100,800
Overhead Fixed Rate		0180-0196	\$10,000	0180-0296	\$20,000
Well Abandonment		0180-0198		0180-0298	
Conlingencies 2% (TCP) 2% (CC)		0180-0199	\$49,300	0180-0299	\$67,500
	TOTAL		\$2,514,000		\$3,441,200
TANGIBLE COSTS 0181					
Casing (19.1" - 30")		0181-0793			
Casing (10.1" - 19.0") 1050' - 13 3/8" 54.5# J-55 ST&C @ \$34.83/ft		0181-0794	\$39,100		
Casing (8.1" - 10.0") 2600' - 9 5/8" 36# HCL80 LT&C @ \$22.72/ft		0181-0795	\$63,100		***************************************
Casing (6.1" - 8.0") 8880' - 7" 29# HCP-110 LT&C @ \$23.84/ft		0181-0796	\$226,100		
Casing (4.1" - 6.0") 8350' - 4 1/2" 13.5# P-110 BPN @ \$12.16/ft			_	0181-0797	\$108,500
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft				0181-0798	\$39,500
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head		0181-0860	\$40,000		\$39,500
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section		0181-0860	\$40,000	0181-0870	\$39,500 \$50,000
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Completion Liner Hanger		0181-0860	\$40,000	0181-0870 0181-0871	\$39,500
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods		0181-0860	\$40,000	0181-0870 0181-0871 0181-0875	\$39,500 \$50,000 \$70,000
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Sucker Rods Subsurface Equipment		0181-0860	\$40,000	0181-0870 0181-0871 0181-0875 0181-0880	\$39,500 \$50,000 \$70,000 \$10,000
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods Subsurface Equipment Artificial Lift Systems Gas Lift Valves & Packer		0181-0860		0181-0870 0181-0871 0181-0875 0181-0880 0181-0884	\$39,500 \$50,000 \$70,000
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods Subsurface Equipment Artificial Lift Systems Gas Lift Valves & Packer Pumping Unit		0181-0860		0181-0870 0181-0871 0181-0875 0181-0880 0181-0884 0181-0885	\$39,500 \$50,000 \$70,000 \$10,000 \$15,000
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods Subsurface Equipment Artificial Lift Systems Gas Lift Valves & Packer Pumping Unit Surface Pumps & Prime Movers VRU/SWD Pump/Circ Pump		0181-0860		0181-0870 0181-0871 0181-0875 0181-0880 0181-0884 0181-0885 0181-0886	\$39,500 \$50,000 \$70,000 \$10,000 \$15,000
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods Subsurface Equipment Artificial Lift Systems Gas Lift Valves & Packer Pumping Unit Surface Pumps & Prime Movers VRU/SWD Pump/Circ Pump Tanks - Oil 3 - 750 bbl		0181-0860		0181-0870 0181-0871 0181-0875 0181-0880 0181-0884 0181-0885 0181-0886 0181-0890	\$39,500 \$50,000 \$70,000 \$10,000 \$15,000 \$30,000 \$75,000
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods Subsurface Equipment Artificial Lift Systems Gas Lift Valves & Packer Pumping Unit Surface Pumps & Prime Movers Tanks - Oil 3 - 750 bbl Tanks - Water (1/2) 5 - 750 bbl coated	šph/1/2VRT/Flare	0181-0860		0181-0870 0181-0871 0181-0875 0181-0880 0181-0884 0181-0885 0181-0896 0181-0890 0181-0891	\$39,500 \$50,000 \$70,000 \$10,000 \$15,000 \$30,000 \$75,000 \$57,000
Tubing	Sph/1/2VRT/Flare	0181-0860		0181-0870 0181-0871 0181-0875 0181-0880 0181-0884 0181-0885 0181-0890 0181-0890 0181-0891 0181-0895	\$39,500 \$50,000 \$70,000 \$10,000 \$15,000 \$30,000 \$75,000 \$57,000 \$95,000
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods Subsurface Equipment Artificial Lift Systems Gas Lift Valves & Packer Pumping Unit Surface Pumps & Prime Movers Tanks - Oil 3 - 750 bbl Tanks - Water (1/2) 5 - 750 bbl coated	3ph/1/2VRT/Flare	0181-0860		0181-0870 0181-0871 0181-0875 0181-0880 0181-0886 0181-0885 0181-0890 0181-0891 0181-0895 0181-0897	\$39,500 \$50,000 \$70,000 \$10,000 \$15,000 \$30,000 \$75,000 \$57,000 \$95,000 \$27,000
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods Subsurface Equipment Artificial Lift Systems Gas Lift Valves & Packer Pumping Unit Surface Pumps & Prime Movers VRU/SWD Pump/Circ Pump Tanks - Oil 3 - 750 bbl Tanks - Water (1/2) 5 - 750 bbl coated Separalion / Trealing Equipment 1/2 GB/30*x10*x16# 3 ph/36*x15*x16# Hors Heater Treaters, Line Heaters 8'x20"x75# HT	šph/1/2VRT//Flare	0181-0860		0181-0870 0181-0871 0181-0875 0181-0890 0181-0884 0181-0895 0181-0896 0181-0890 0181-0891 0181-0895 0181-0897	\$39,500 \$50,000 \$70,000 \$10,000 \$15,000 \$30,000 \$75,000 \$57,000 \$27,000 \$15,000
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods Subsurface Equipment Artificial Lift Systems Gas Lift Valves & Packer Pumping Unit Surface Pumps & Prime Movers VRU/SWD Pump/Circ Pump Tanks - Oil 3 - 750 bbl Tanks - Water (1/2) 5 - 750 bbl coated Separation / Treating Equipment Heater Treaters, Line Heaters 8'x20'x75# HT Metering Equipment	3ph/1/2VRT//Flare	0181-0860		0181-0870 0181-0871 0181-0875 0181-0880 0181-0886 0181-0885 0181-0890 0181-0891 0181-0895 0181-0897	\$39,500 \$50,000 \$70,000 \$10,000 \$15,000 \$30,000 \$75,000 \$57,000 \$95,000 \$27,000
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods Subsurface Equipment Artificial Lift Systems Gas Lift Valves & Packer Pumping Unit Surface Pumps & Prime Movers VRU/SWD Pump/Circ Pump Tanks - Oil 3 - 750 bbl Tanks - Water (1/2) 5 - 750 bbl coated Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Gathering	šph/1/2VRT//Flare	0181-0860		0181-0870 0181-0871 0181-0875 0181-0860 0181-0884 0181-0885 0181-0896 0181-0890 0181-0891 0181-0895 0181-0895 0181-0898	\$39,500 \$50,000 \$70,000 \$10,000 \$15,000 \$30,000 \$75,000 \$57,000 \$95,000 \$27,000 \$15,000 \$50,000
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods Subsurface Equipment Artificial Lift Systems Gas Lift Valves & Packer Pumping Unit Surface Pumps & Prime Movers VRU/SWD Pump/Circ Pump Tanks - Oil 3 - 750 bbl coated Separation / Trealing Equipment Heater Treaters, Line Heaters 8"x20"x75# HT Metering Equipment Line Pipe & Valves & Accessories Cathodic Protection Electrical Installation	3ph/1/2VRT/Flare	0181-0860		0181-0870 0181-0871 0181-0875 0181-0880 0181-0884 0181-0885 0181-0886 0181-0890 0181-0891 0181-0895 0181-0898 0181-0898 0181-0898	\$39,500 \$50,000 \$70,000 \$10,000 \$15,000 \$30,000 \$75,000 \$57,000 \$27,000 \$15,000 \$15,000 \$100,000
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Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods Subsurface Equipment Artificial Lift Systems Gas Lift Valves & Packer Pumping Unit Surface Pumps & Prime Movers VRU/SWD Pump/Circ Pump Tanks - Oil 3 - 750 bbl Tanks - Water (1/2) 5 - 750 bbl coated Separation / Treating Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Galhering Fittings / Valves & Accessories Calhodic Protection Electrical Installation Equipment Installation	TOTAL	0181-0860	\$368,300	0181-0870 0181-0871 0181-0880 0181-0884 0181-0886 0181-0886 0181-0886 0181-0890 0181-0891 0181-0897 0181-0909 0181-0900 0181-0900 0181-0900 0181-0909 0181-0909	\$39,500 \$50,000 \$70,000 \$10,000 \$15,000 \$75,000 \$57,000 \$27,000 \$15,000 \$50,000 \$100,000 \$70,000 \$100,000 \$100,000 \$100,000
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods Subsurface Equipment Artificial Lift Systems Gas Lift Valves & Packer Pumping Unit Surface Pumps & Prime Movers VRU/SWD Pump/Circ Pump Tanks - Oil 3 - 750 bbl Tanks - Water (1/2) 5 - 750 bbl coated Separalion / Trealing Equipment Heater Treaters, Line Heaters Metering Equipment Line Pipe & Valves - Galhering Fittings / Valves & Accessories Calhodic Protection Ejectrical Instaliation Equipment Instaliation		0181-0860		0181-0870 0181-0871 0181-0880 0181-0884 0181-0886 0181-0886 0181-0886 0181-0890 0181-0891 0181-0897 0181-0909 0181-0900 0181-0900 0181-0900 0181-0909 0181-0909	\$39,500 \$50,000 \$70,000 \$10,000 \$15,000 \$30,000 \$75,000 \$57,000 \$27,000 \$100,000 \$125,000 \$70,000 \$100,000
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods Subsurface Equipment Artificial Lift Systems Gas Lift Valves & Packer Pumping Unit Surface Pumps & Prime Movers VRU/SWD Pump/Circ Pump Tanks - Oil 3 - 750 bbl Tanks - Water (1/2) 5 - 750 bbl coated Separalion / Treating Equipment Heater Treaters, Line Heaters 8'x20'x75# HT Metering Equipment Line Pipe & Valves & Accessories Calhodic Protection Electrical Installation Equipment Installation Pipeline Construction	TOTAL	0181-0860	\$368,300 \$2,882,300	0181-0870 0181-0871 0181-0880 0181-0884 0181-0886 0181-0886 0181-0886 0181-0890 0181-0891 0181-0897 0181-0909 0181-0900 0181-0900 0181-0900 0181-0909 0181-0909	\$39,500 \$50,000 \$10,000 \$15,000 \$30,000 \$75,000 \$57,000 \$27,000 \$15,000 \$50,000 \$100,000 \$70,000 \$100,000 \$100,000
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods Subsurface Equipment Artificial Lift Systems Gas Lift Valves & Packer Pumping Unit Surface Pumps & Prime Movers VRU/SWD Pump/Circ Pump Tanks - Oil 3 - 750 bbl Tanks - Water (1/2) 5 - 750 bbl coated Separation / Treating Equipment Heater Treaters, Line Heaters 8'x20'x75# HT Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation Pipeline Construction	TOTAL SUBTOTAL	0181-0860	\$368,300 \$2,882,300	0181-0870 0181-0871 0181-0875 0181-0880 0181-0884 0181-0885 0181-0890 0181-0891 0181-0895 0181-0895 0181-0909 0181-0900 0181-0900 0181-0909 0181-0909 0181-0909 0181-0909	\$39,500 \$50,000 \$10,000 \$15,000 \$30,000 \$75,000 \$57,000 \$27,000 \$15,000 \$50,000 \$100,000 \$70,000 \$100,000 \$100,000
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods Subsurface Equipment Artificial Lift Systems Gas Lift Valves & Packer Pumping Unit Surface Pumps & Prime Movers VRU/SWD Pump/Circ Pump Tanks - Oil 3 - 750 bbl coated Separation / Treating Equipment Heater Treaters, Line Heaters 8'x20'x75# HT Metering Equipment Line Pipe & Valves - Gathering Filtings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation Equipment Installation Pipeline Construction  TOTAL W  Extra Expense Insurance  I elect to be covered by Operator's Extra Expense Insurance and	TOTAL SUBTOTAL ELL COST	onate share	\$368,300 \$2,882,300 \$7,41	0181-0870 0181-0871 0181-0880 0181-0884 0181-0886 0181-0886 0181-0890 0181-0891 0181-0897 0181-0897 0181-0897 0181-0909 0181-0909 0181-0909 0181-0909 0181-0909 0181-0909	\$39,500  \$50,000  \$10,000  \$15,000  \$30,000  \$75,000  \$57,000  \$57,000  \$57,000  \$50,000  \$100,000  \$100,000  \$100,000  \$100,000  \$4,528,200
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods Subsurface Equipment Artificial Lift Systems Gas Lift Valves & Packer Pumping Unit Surface Pumps & Prime Movers VRU/SWD Pump/Circ Pump Tanks - Oil 3 - 750 bbl Tanks - Water (1/2) 5 - 750 bbl coated Separation / Treating Equipment Heater Treaters, Line Heaters 8'x20'x75# HT Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation Extra Expense Insurance	TOTAL SUBTOTAL ELL COST	onate share	\$368,300 \$2,882,300 \$7,41	0181-0870 0181-0871 0181-0880 0181-0884 0181-0886 0181-0886 0181-0890 0181-0891 0181-0897 0181-0897 0181-0897 0181-0909 0181-0909 0181-0909 0181-0909 0181-0909 0181-0909	\$39,500 \$50,000 \$70,000 \$10,000 \$30,000 \$75,000 \$57,000 \$57,000 \$57,000 \$510,000 \$15,000 \$100,000 \$100,000 \$100,000 \$100,000 \$1,087,000 \$4,528,200
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head & Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods Subsurface Equipment Artificial Lift Systems Gas Lift Valves & Packer Pumping Unit Surface Pumps & Prime Movers VRU/SWD Pump/Circ Pump Tanks - Oil 3 - 750 bbl coated Separation / Treating Equipment Heater Treaters, Line Heaters 8'x20'x75# HT Metering Equipment Line Pipe & Valves - Gathering Filtings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation Equipment Installation Pipeline Construction  TOTAL W Extra Expense Insurance  I elect to be covered by Operator's Extra Expense Insurance covering costs of w	TOTAL SUBTOTAL ELL COST	onate share	\$368,300 \$2,882,300 \$7,41	0181-0870 0181-0871 0181-0880 0181-0884 0181-0886 0181-0886 0181-0890 0181-0891 0181-0897 0181-0897 0181-0897 0181-0909 0181-0909 0181-0909 0181-0909 0181-0909 0181-0909	\$39,500 \$50,000 \$70,000 \$10,000 \$30,000 \$57,000 \$57,000 \$57,000 \$57,000 \$510,000 \$15,000 \$100,000 \$100,000 \$100,000 \$100,000 \$1,087,000 \$4,528,200
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head & Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods Subsurface Equipment Artificial Lift Systems Gas Lift Valves & Packer Pumping Unit Surface Pumps & Prime Movers VRU/SWD Pump/Circ Pump Tanks - Oil 3 - 750 bbl Tanks - Water (1/2) 5 - 750 bbl coated Separation / Treating Equipment Heater Treaters, Line Heaters 8'x20'x75# HT Metering Equipment Line Pipe & Valves - Gathering Filtings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation Pipeline Construction  TOTAL W  Extra Expense Insurance  I elect to be covered by Operator's Extra Expense Insurance an Operator has secured Extra Expense Insurance covering costs of worth and the control Insurance policy.	TOTAL SUBTOTAL FELL COST  d pay my proporti	onate share of and redrilling	\$368,300 \$2,882,300 \$7,41	0181-0870 0181-0871 0181-0880 0181-0884 0181-0886 0181-0886 0181-0890 0181-0891 0181-0897 0181-0897 0181-0897 0181-0909 0181-0909 0181-0909 0181-0909 0181-0909 0181-0909	\$39,500 \$50,000 \$70,000 \$10,000 \$30,000 \$57,000 \$57,000 \$57,000 \$57,000 \$510,000 \$15,000 \$100,000 \$100,000 \$100,000 \$100,000 \$1,087,000 \$4,528,200
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods Subsurface Equipment Artificial Lift Systems Gas Lift Valves & Packer Pumping Unit Surface Pumps & Prime Movers VRU/SWD Pump/Circ Pump Tanks - Oil 3 - 750 bbl Tanks - Water (1/2) 5 - 750 bbl coated Separation / Treating Equipment Heater Treaters, Line Heaters 8"x20"x75# HT Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation Pipeline Construction  TOTAL W  Extra Expense Insurance  I elect to be covered by Operator's Extra Expense Insurance and Operator has secured Extra Expense Insurance covering costs of world in the control Insurance of the Construction of the Cons	TOTAL SUBTOTAL ELL COST  d pay my proporti ell control, clean up	onate share e and redrilling	\$368,300 \$2,882,300 \$7,41	0181-0870 0181-0871 0181-0880 0181-0884 0181-0886 0181-0886 0181-0890 0181-0891 0181-0897 0181-0897 0181-0897 0181-0909 0181-0909 0181-0909 0181-0909 0181-0909 0181-0909	\$39,500 \$50,000 \$70,000 \$10,000 \$30,000 \$57,000 \$57,000 \$57,000 \$57,000 \$510,000 \$15,000 \$100,000 \$100,000 \$100,000 \$100,000 \$1,087,000 \$4,528,200
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods Subsurface Equipment Artificial Lift Systems Gas Lift Valves & Packer Pumping Unit Surface Pumps & Prime Movers VRU/SWD Pump/Circ Pump Tanks - Oil 3 - 750 bbl Tanks - Water Separation / Treating Equipment Heater Treaters, Line Heaters 8'x20'x75# HT Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation Equipment Installation Pipeline Construction  TOTAL W  Extra Expense Insurance I elect to be covered by Operator's Extra Expense Insurance and Operator has secured Extra Expense Insurance covering costs of working interest owner elects to be covered by Covered b	TOTAL SUBTOTAL FELL COST  d pay my proportil ell control, clean up	onate share a and redrilling	\$368,300 \$2,882,300 \$7,41 of the premium. as estimated in L	0181-0870 0181-0871 0181-0880 0181-0884 0181-0886 0181-0886 0181-0890 0181-0891 0181-0897 0181-0897 0181-0897 0181-0909 0181-0909 0181-0909 0181-0909 0181-0909 0181-0909	\$39,500 \$50,000 \$70,000 \$10,000 \$30,000 \$57,000 \$57,000 \$57,000 \$57,000 \$510,000 \$15,000 \$100,000 \$100,000 \$100,000 \$100,000 \$1,087,000 \$4,528,200
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods Subsurface Equipment Artificial Lift Systems Gas Lift Valves & Packer Pumping Unit Surface Pumps & Prime Movers VRU/SWD Pump/Circ Pump Tanks - Oil 3 - 750 bbl Tanks - Water (1/2) 5 - 750 bbl coated Separation / Treating Equipment 1/2 GB/30"x10"x16# 3 ph/36"x15"x11# Hor: Heater Treaters, Line Heaters 8"x20"x75# HT Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Calhodic Protection Electrical Installation Equipment Installation Equipment Installation Equipment Installation Pipeline Construction  TOTAL W  Extra Expense Insurance  I elect to be covered by Operator's Extra Expense Insurance and Operator has secured Extra Expense Insurance covering costs of working Interest owner elects to be covered by Operator's Extra Expense Insurance policy.  If neither box is checked above, non-operating working Interest owner elects to be covered by Operator's Extra Expense Insurance policy.  T. Cude  Company Approval:  T. Cude	TOTAL SUBTOTAL ELL COST  d pay my proporti ell control, clean up	onate share e and redrilling	\$368,300 \$2,882,300 \$7,41 of the premium. as estimated in L	0181-0870 0181-0871 0181-0880 0181-0884 0181-0886 0181-0886 0181-0890 0181-0891 0181-0897 0181-0897 0181-0897 0181-0909 0181-0909 0181-0909 0181-0909 0181-0909 0181-0909	\$39,500 \$50,000 \$70,000 \$10,000 \$30,000 \$57,000 \$57,000 \$57,000 \$57,000 \$510,000 \$15,000 \$100,000 \$100,000 \$100,000 \$100,000 \$1,087,000 \$4,528,200
Tubing 8030' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.60/ft Drilling Head Tubing Head & Upper Section Horizontal Completion Tools Completion Liner Hanger Sucker Rods Subsurface Equipment Artificial Lift Systems Gas Lift Valves & Packer Pumping Unit Surface Pumps & Prime Movers VRU/SWD Pump/Circ Pump Tanks - Oil 3 - 750 bbl Tanks - Water (1/2) 5 - 750 bbl coated Separation / Treating Equipment Heater Treaters, Line Heaters 6'x20'x75# HT Metering Equipment Line Pipe & Valves - Gathering Fittings / Valves & Accessories Cathodic Protection Electrical Installation Equipment Installation Pipeline Construction  TOTAL W  Extra Expense Insurance  I elect to be covered by Operator's Extra Expense Insurance an Operator has secured Extra Expense Insurance covering costs of working Interest owner elects to be covered by Operator's Insurance Policy.  If neither box is checked above, non-operating working Interest owner elects to be covered by Operator's T. Cude	TOTAL SUBTOTAL FELL COST  d pay my proportil ell control, clean up	onate share a and redrilling	\$368,300 \$2,882,300 \$7,41 of the premium. as estimated in L	0181-0870 0181-0871 0181-0880 0181-0884 0181-0886 0181-0886 0181-0890 0181-0891 0181-0897 0181-0897 0181-0897 0181-0909 0181-0909 0181-0909 0181-0909 0181-0909 0181-0909	\$39,500  \$50,000  \$10,000  \$15,000  \$30,000  \$75,000  \$57,000  \$57,000  \$57,000  \$57,000  \$15,000  \$15,000  \$100,000  \$125,000  \$70,000  \$100,000  \$100,000  \$4,528,200

Case No. 21248
MEWBOURNE OIL
Exhibit A-13

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

APPLICATION OF MEWBOURNE OIL COMPANY FOR COMPULSORY POOLING, EDDY AND LEA COUNTIES, NEW MEXICO

Case No. 21248

## SELF-AFFIRMED STATEMENT OF CHARLES CROSBY

- 1. I am over 18 years of age and am competent to provide this Self-Affirmed Statement. I have personal knowledge of the matters addressed herein.
- 2. I am a geologist at Mewbourne Oil Company ("Mewbourne"). I am familiar with the geological matters that pertain to Mewbourne's application.
- 3. I have previously testified before the New Mexico Oil Conservation Division as an expert in geology, and my qualifications were accepted.
- 4. A general location map of the proposed horizontal spacing unit ("HSU") is attached as Exhibit B-1.
- 5. A structure map of the Base of the 2<sup>nd</sup> Bone Spring Sand formation is attached as Exhibit B-2. The map shows that the structure dips to the south. It also shows a line of cross section and the HSU for the proposed Castle Black 6/1 B2FE Fed Com #1H well.
- 6. Attached as Exhibit B-3 is a gross sand isopach map of the Lower 2<sup>nd</sup> Bone Spring Sand formation, which is the target zone for the proposed well. It shows that the sand across the HSU has an approximate thickness of 250-300'.

Case No. 21248
MEWBOURNE OIL
Exhibit B

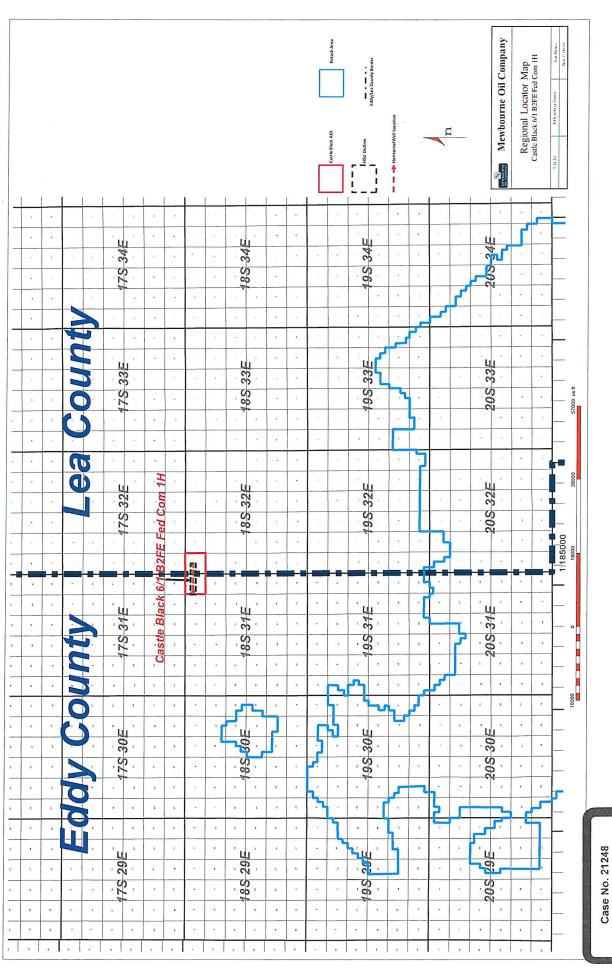
1

- 7. Attached as Exhibit B-4 is a west to east cross section. The well logs on the cross section provide a representative sample of the 2<sup>nd</sup> Bone Spring Sand formation in the area. The target zone for the proposed well is continuous across the HSU.
- 8. Attached as Exhibit B-5 is a table containing production data from other 2<sup>nd</sup> Bone Spring Sand wells drilled in the vicinity. The preference is for laydown wells (west to east or east to west).
- 9. Exhibit B-6 is a Well Planning Report for the proposed well. The report contains plots and lateral trajectory schematics of the well bore. The well's producing interval will be orthodox.
  - 10. There are no depth severances in the Bone Spring formation in the proposed HSU.
  - 11. Based on the information discussed above, I am able to conclude that:
    - a) The HSU is justified from a geologic standpoint;
- b) There is no faulting or other geologic impediment that could adversely affect the drilling of the proposed well; and
- c) Each quarter-quarter section in the HSU will contribute more or less equally to production.
- 12. In my opinion, the granting of Mewbourne's application will serve the interests of conservation and the prevention of waste.
- 13. Exhibits B-1 through B-6 were either prepared by me or compiled from company records.
- 14. I understand that this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony in paragraphs 1 through 13 above is true and correct and is

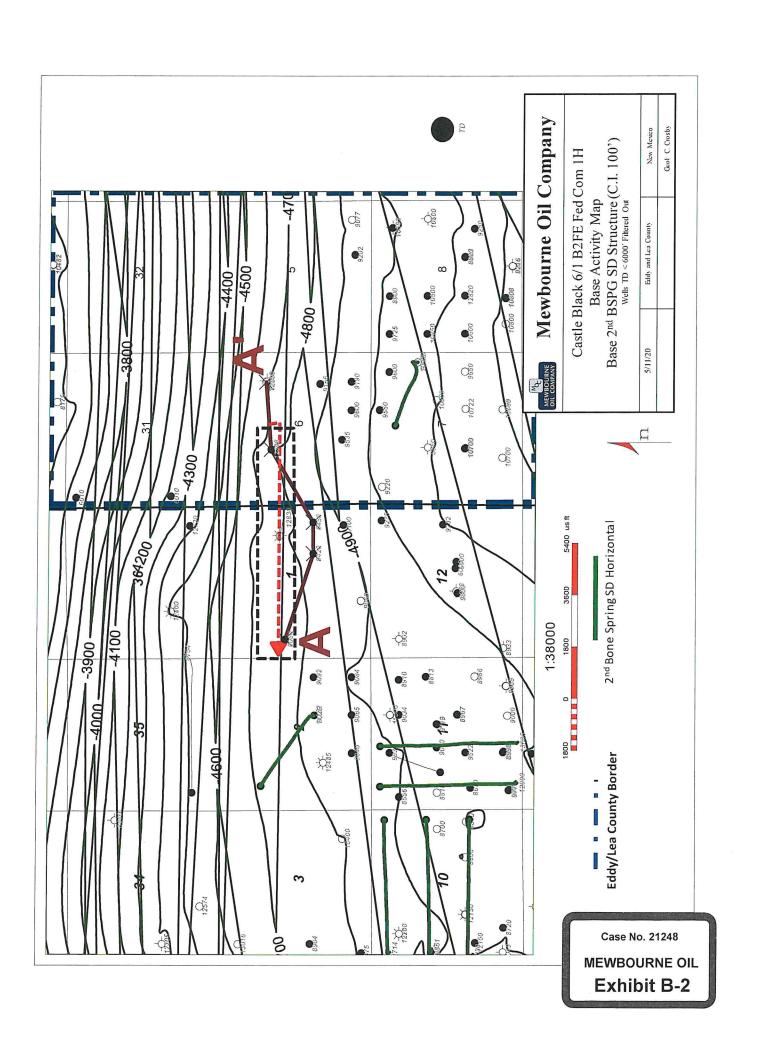
made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.

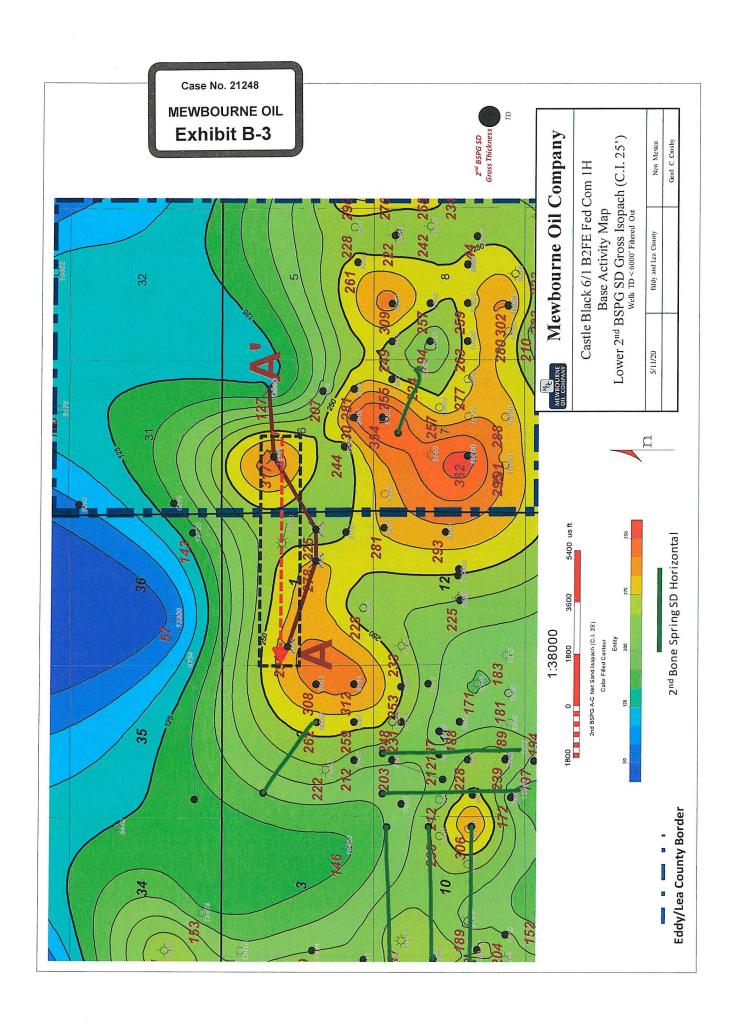
Charles Crosby

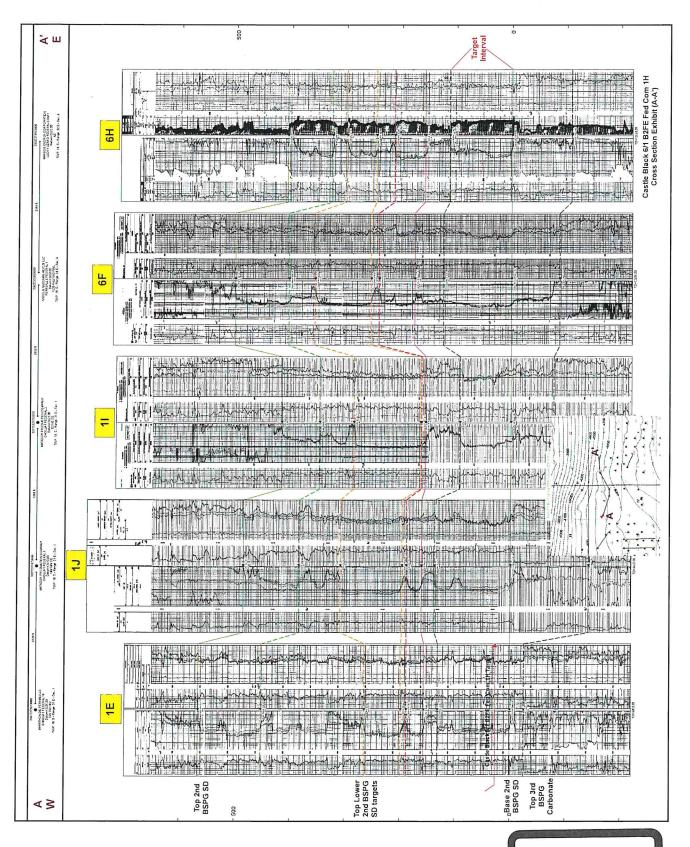
5/12/20 Date



MEWBOURNE OIL
Exhibit B-1







Case No. 21248

MEWBOURNE OIL

Exhibit B-4

		Castle Bla	Castle Black Area 2nd BS	<b>BSPG SD Horizontal Production Table</b>	Production Tak	ole				
Well Name	Operator	API	Location	Completion Date	Cum Oil (Mbo)	Cum Gas (Bcf)	Completion Date   Cum Oil (Mbo)   Cum Gas (Bcf)   Cum Water (Mbw)	NS/EW	Production Zone	
Aesquite 2 State Com 3H	Matador	30015254520100	2J/18S/31E	3/5/2006	116.7	0.14	64.7	NW/SE	NW/SE Lower 2nd BSPG SD	*Sidetrack Recompletion
amano 11 MD Federal Com 1H	Mewbourne	30015413490000	11M/18S/31E	8/10/2014	116.4	0.16	108.7	NS	Lower 2nd BSPG SD	
Famano 11 NC Federal 1H	Mewbourne	30015413500000	11N/18S/31E	2/9/2014	85.7	0.14	126.9	NS	Lower 2nd BSPG SD	
Bola 7 Federal Com 3H	Matador	30025355350100	7H/18S/32E	9/12/2006	98.8	0.11	16.0	NW/SE	NW/SE Lower 2nd BSPG SD	*Sidetrack Recompletion
Famano 10 Federal Com 6H	Mewbourne	30015382860000	10D/18S/31E	11/2/2011	158.9	0.2	123.9	EW	Lower 2nd BSPG SD	
amano 10 Federal Com 7H	Mewbourne	30015396850000	10E/18S/31E	1/14/2012	179.3	0.3	189.5	EW	lower 2nd BSPG SD	
amano 10 Federal Com 8H	Mewbourne	30015401090000	10L/18S/31E	7/16/2012	63.6	0.06	176.8	EW	Lower 2nd BSPG SD	

Case No. 21248

MEWBOURNE OIL
Exhibit B-5

## **Mewbourne Oil Company**

Lea County, New Mexico NAD 83 Castle Black 6/1 B2FE Fed Com #1H Sec 6, T18S, R32E

SHL: 1700' FNL & 2500' FEL, Sec 6 BHL: 2050' FNL & 100' FWL, Sec 1

Plan: Design #1

## **Standard Planning Report**

07 November, 2019

Case No. 21248

MEWBOURNE OIL
Exhibit B-6

Database: Company: Hobbs

Project:

Mewbourne Oil Company Lea County, New Mexico NAD 83

Site: Castle Black 6/1 B2FE Fed Com #1H

Well:

Sec 6, T18S, R32E

Wellbore:

BHL: 2050' FNL & 100' FWL, Sec 1

Design #1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Site Castle Black 6/1 B2FE Fed Com #1H WELL @ 3859.0usft (Original Well Elev)

WELL @ 3859.0usft (Original Well Elev)

Grid Minimum Curvature

Project

Map Zone:

Well

Lea County, New Mexico NAD 83

Map System: Geo Datum:

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site

Castle Black 6/1 B2FE Fed Com #1H

Site Position: From:

Мар

Northing: 647,616.00 usft Easting:

703,623.00 usft 13-3/16 "

Latitude: Longitude:

32.7792165 -103.8053002 Grid Convergence:

0.29°

**Position Uncertainty:** 

Sec 6, T18S, R32E

**Well Position** 

+N/-S +E/-W 0.0 usft 0.0 usft

0.0 usft

Northing: Easting:

Slot Radius:

647,616.00 usft 703,623.00 usft

6.69

Latitude: Longitude:

32.7792165 -103.8053002 3,831.0 usft

0.0 usft Wellhead Elevation: 3,859.0 usft Ground Level: **Position Uncertainty** 

Wellbore

BHL: 2050' FNL & 100' FWL, Sec 1

IGRF2010

Magnetics

**Model Name** 

Sample Date

11/7/2019

Declination (°)

**Dip Angle** (°)

Field Strength (nT)

48,081

Design #1 Design

**Audit Notes:** 

Version:

Phase:

PROTOTYPE

Tie On Depth:

0.0

60.44

**Vertical Section:** 

Depth From (TVD) (usft)

0.0

(usft)

+N/-S (usft)

0.0

+E/-W (usft) 0.0

Direction (°)

267.15

**Plan Sections** 

0.0

Measured Depth Inclination (usft) (°) (°)

0.00

Azimuth

Vertical 0.00

Depth +N/-S (usft) 0.0 0.0

+E/-W (usft) 0.0

Dogleg Rate (°/100usft) 0.00

Build Rate (°/100usft) 0.00

Rate (°/100usft)

Turn

0.00

(°)

TFO

0.00

Target

Database: Company: Project: Hobbs

Mewbourne Oil Company Lea County, New Mexico NAD 83 Castle Black 6/1 B2FE Fed Com #1H

 Site:
 Castle Black 6/1 B2

 Well:
 Sec 6, T18S, R32E

Wellbore: BHL: 2050' FNL & 100' FWL, Sec 1

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Castle Black 6/1 B2FE Fed Com #1H WELL @ 3859.0usft (Original Well Elev) WELL @ 3859.0usft (Original Well Elev)

Grid

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inglination	A ! 41-	Depth	IN C	. ECM	Section	Rate	Rate	Rate
(usft)	Inclination (°)	Azimuth (°)	(usft)	+N/-S (usft)	+E/-W (usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	NL & 2500' FEL		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
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
1,035.0	0.00	0.00	1,035.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.98	145.45	1,100.0	-0.5	0.3	-0.3	1.50	1.50	0.00
1,200.0	2.48	145.45	1,199.9	-2.9	2.0	-1.9	1.50	1.50	0.00
1,271.5	3.55	145.45	1,271.4	-6.0	4.2	-3.8	1.50	1.50	0.00
1,300.0	3.55	145.45	1,299.8	-7.5	5.2	-4.8	0.00	0.00	0.00
1,400.0	3.55	145.45	1,299.8	-7.5 -12.6	5.2 8.7	-4.8 -8.0	0.00	0.00	0.00
1,500.0 1.600.0	3.55	145.45	1,499.4	-17.7	12.2	-11.3	0.00	0.00	0.00
	3.55	145.45	1,599.2	-22.8	15.7	-14.5	0.00	0.00	0.00
1,700.0	3.55	145.45	1,699.0	-27.9	19.2	-17.8	0.00	0.00	0.00
1,800.0	3.55	145.45	1,798.8	-33.0	22.7	-21.0	0.00	0.00	0.00
1,900.0	3.55	145.45	1,898.6	-38.1	26.2	-24.3	0.00	0.00	0.00
2,000.0	3.55	145.45	1,998.5	-43.2	29.7	-27.5	0.00	0.00	0.00
2,100.0	3.55	145.45	2,098.3	-48.3	33.2	-30.8	0.00	0.00	0.00
2,200.0	3.55	145.45	2,198.1	-53.4	36.7	-34.0	0.00	0.00	0.00
2,300.0	3.55	145.45	2,297.9	-58.5	40.2	-37.3	0.00	0.00	0.00
2,400.0	3.55	145.45	2,397.7	-63.5	43.8	-40.5	0.00	0.00	0.00
2,500.0	3.55	145.45	2,497.5	-68.6	47.3	-43.8	0.00	0.00	0.00
2,600.0	3.55	145.45	2,597.3	-73.7	50.8	-47.0	0.00	0.00	0.00
2,700.0	3.55	145.45	2,697.1	-78.8	54.3	-50.3	0.00	0.00	0.00
2,800.0	3.55	145.45	2,796.9	-83.9	57.8	-53.6	0.00	0.00	0.00
2,900.0	3.55	145.45	2,896.7	-89.0	61.3	-56.8	0.00	0.00	0.00
3,000.0	3.55	145.45	2,996.5	-94.1	64.8	-60.1	0.00	0.00	0.00
3,100.0	3.55	145.45	3,096.3	-99.2	68.3	-63.3	0.00	0.00	0.00
3,200.0	3.55	145.45	3,196.2	-104.3	71.8	-66.6	0.00	0.00	0.00
3,300.0	3.55	145.45	3,296.0	-109.4	75.3	-69.8	0.00	0.00	0.00
3,400.0	3.55	145.45	3,395.8	-114.5	78.9	-73.1	0.00	0.00	0.00
							0.00	0.00	0.00
3,500.0	3.55	145.45	3,495.6	-119.6	82.4 85.0	-76.3		0.00	0.00
3,600.0 3,700.0	3.55 3.55	145.45 145.45	3,595.4 3,695.2	-124.7 -129.8	85.9 89.4	-79.6 -82.8	0.00 0.00	0.00	0.00
78			1.7						
3,800.0	3.55	145.45	3,795.0	-134.9	92.9	-86.1	0.00	0.00	0.00
3,900.0	3.55	145.45	3,894.8	-140.0	96.4	-89.3	0.00	0.00	0.00
4,000.0	3.55	145.45	3,994.6	-145.1	99.9	-92.6	0.00	0.00	0.00
4,100.0	3.55	145.45	4,094.4	-150.2	103.4	-95.8	0.00	0.00	0.00
4,200.0	3.55	145.45	4,194.2	-155.3	106.9	-99.1	0.00	0.00	0.00
4,300.0	3.55	145.45	4,294.0	-160.4	110.4	-102.3	0.00	0.00	0.00
4,400.0	3.55	145.45	4,393.9	-165.5	114.0	-105.6	0.00	0.00	0.00
4,500.0	3.55	145.45	4,493.7	-170.6	117.5	-108.8	0.00	0.00	0.00
4,600.0	3.55	145.45	4,593.5	-175.7	121.0	-112.1	0.00	0.00	0.00
4,700.0	3.55	145.45	4,693.3	-180.8	124.5	-115.3	0.00	0.00	0.00
4,800.0	3.55	145.45	4,793.1	-185.9	128.0	-118.6	0.00	0.00	0.00
4,900.0	3.55	145.45	4,892.9	-191.0	131.5	-121.8	0.00	0.00	0.00
5,000.0	3.55	145.45	4,992.7	-196.1	135.0	-125.1	0.00	0.00	0.00

Database: Company: Project: Hobbs

Mewbourne Oil Company Lea County, New Mexico NAD 83 Castle Black 6/1 B2FE Fed Com #1H

Site: Well:

Sec 6, T18S, R32E

Wellbore: Design: BHL: 2050' FNL & 100' FWL, Sec 1

Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

North Reference: Survey Calculation Method: Site Castle Black 6/1 B2FE Fed Com #1H WELL @ 3859.0usft (Original Well Elev) WELL @ 3859.0usft (Original Well Elev)

Grid

ed 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)
5,100.0 5,200.0	3.55 3.55	145.45 145.45	5,092.5 5,192.3	-201.2 -206.3	138.5 142.0	-128.3 -131.6	0.00 0.00	0.00 0.00	0.00 0.00
5,300.0	3.55	145.45	5,292.1	-211.4	145.5	-134.8	0.00	0.00	0.00
5,400.0	3.55	145.45	5,391.9	-216.5	149.1	-138.1	0.00	0.00	0.00
5,500.0	3.55	145.45	5,491.7	-221.6	152.6	-141.3	0.00	0.00	0.00
5,600.0	3.55	145.45	5,591.6	-226.7	156.1	-144.6	0.00	0.00	0.00
5,700.0	3.55	145.45	5,691.4	-231.8	159.6	-147.9	0.00	0.00	0.00
5,800.0	3.55	145.45	5,791.2	-236.9	163.1	-151.1	0.00	0.00	0.00
5,900.0	3.55	145.45	5,891.0	-242.0	166.6	-154.4	0.00	0.00	0.00
6,000.0	3.55	145.45	5,990.8	-247.0	170.1	-157.6	0.00	0.00	0.00
6,100.0	3.55	145.45	6,090.6	-252.1	173.6	-160.9	0.00	0.00	0.00
6,200.0	3.55	145.45	6,190.4	-257.2	177.1	-164.1	0.00	0.00	0.00
6,300.0	3.55	145.45	6,290.2	-262.3	180.6	-167.4	0.00	0.00	0.00
6,400.0	3.55	145.45	6,390.0	-267.4	184.1	-170.6	0.00	0.00	0.00
6,500.0	3.55	145.45	6,489.8	-272.5	187.7	-173.9	0.00	0.00	0.00
6,600.0	3.55	145.45	6,589.6	-277.6	191.2	-177.1	0.00	0.00	0.00
6,700.0	3.55	145.45	6,689.4	-282.7	194.7	-180.4	0.00	0.00	0.00
6,800.0	3.55	145.45	6,789.3	-287.8	198.2	-183.6	0.00	0.00	0.00
6,900.0	3.55	145.45	6,889.1	-292.9	201.7	-186.9	0.00	0.00	0.00
7,000.0	3.55	145.45	6,988.9	-298.0	205.2	-190.9	0.00	0.00	0.00
7,100.0	3.55	145.45	7,088.7	-303.1	208.7	-193.4	0.00	0.00	0.00
7,200.0	3.55	145.45	7,188.5	-308.2	212.2	-196.6	0.00	0.00	0.00
7,300.0	3.55	145.45	7,288.3	-313.3	215.7	-199.9	0.00	0.00	0.00
7,400.0	3.55	145.45	7,388.1	-318.4	219.2	-203.1	0.00	0.00	0.00
7,500.0	3.55	145.45	7,487.9	-323.5	222.8	-206.4	0.00	0.00	0.00
7,600.0 7,700.0	3.55 3.55	145.45 145.45	7,587.7 7,687.5	-328.6 -333.7	226.3 229.8	-209.6	0.00 0.00	0.00 0.00	0.00 0.00
7,700.0	3.55		7,007.3	-333.7	229.0	-212.9	0.00	0.00	0.00
7,800.0	3.55	145.45	7,787.3	-338.8	233.3	-216.1	0.00	0.00	0.00
7,900.0	3.55	145.45	7,887.1	-343.9	236.8	-219.4	0.00	0.00	0.00
7,901.5	3.55	145.45	7,888.6	-344.0	236.8	-219.4	0.00	0.00	0.00
8,000.0	2.07	145.45	7,987.0	-347.9	239.6	-222.0	1.50	-1.50	0.00
8,100.0	0.57	145.45	8,087.0	-349.8	240.9	-223.2	1.50	-1.50	0.00
8,138.0	0.00	0.00	8,125.0	-350.0	241.0	-223.3	1.50	-1.50	0.00
	NL & 2260' FEL								
8,200.0	7.43	269.67	8,186.8	-350.0	237.0	-219.3	11.99	11.99	0.00
8,300.0	19.42	269.67	8,283.9	-350.2	213.8	-196.1	11.99	11.99	0.00
8,400.0	31.40	269.67	8,374.1	-350.4	171.0	-153.3	11.99	11.99	0.00
8,500.0	43.39	269.67	8,453.4	-350.8	110.4	-92.8	11.99	11.99	0.00
8,600.0	55.38	269.67	8,518.4	-351.2	34.6	-17.1	11.99	11.99	0.00
8,700.0	67.36	269.67	8,566.2	-351.7	-53.0	70.4	11.99	11.99	0.00
8,800.0	79.35	269.67	8,594.8	-352.3	-148.6	166.0	11.99	11.99	0.00
8,891.3	90.29	269.67	8,603.0	-352.8	-239.4	256.7	11.99	11.99	0.00
	O' FNL & 2571' FV								
8,900.0	90.29	269.67	8,603.0	-352.9	-248.1	265.4	0.00	0.00	0.00
9,000.0	90.29	269.67	8,602.5	-353.4	-348.1	365.3	0.00	0.00	0.00
9,100.0	90.29	269.67	8,601.9	-354.0	-448.1	465.2	0.00	0.00	0.00
9,200.0	90.29	269.67	8,601.4	-354.6	-548.1	565.1	0.00	0.00	0.00
9,300.0	90.29	269.67	8,600.9	-355.2	-648.1	665.0	0.00	0.00	0.00
9,400.0	90.29	269.67	8,600.4	-355.8	-748.1	764.9	0.00	0.00	0.00
9,500.0	90.29	269.67	8,599.9	-356.4	-848.1	864.8	0.00	0.00	0.00
9,600.0	90.29	269.67	8,599.4	-356.9	-948.1	964.7	0.00	0.00	0.00
9,700.0	90.29	269.67	8,598.9	-357.5	-1,048.1	1,064.6	0.00	0.00	0.00
9,800.0	90.29	269.67	8,598.4	-358.1	-1,148.1	1,164.5	0.00	0.00	0.00
9,900.0	90.29	269.67	8,597.9	-358.7	-1,248.1	1,264.4	0.00	0.00	0.00

Database: Company: Project: Hobbs

Mewbourne Oil Company Lea County, New Mexico NAD 83 Castle Black 6/1 B2FE Fed Com #1H

 Site:
 Castle Black 6/1 B2

 Well:
 Sec 6, T18S, R32E

Wellbore: BHL: 2050' FNL & 100' FWL, Sec 1
Design: Design #1

Local Co-ordinate Reference:

Survey Calculation Method:

TVD Reference: MD Reference: North Reference:

e: nce:

Site Castle Black 6/1 B2FE Fed Com #1H WELL @ 3859.0usft (Original Well Elev) WELL @ 3859.0usft (Original Well Elev)

Grid

Measured   Dopth   Inclination   Azimuth   C)		
(usft)	Build	Turn
10,000 0 90.29 269.67 8,596.4 369.8 1-1,348.1 1,364.3 0.00 10,100 0 90.29 269.67 8,596.4 369.6 1-1,648.1 1,464.2 0.00 10,300 0 90.29 269.67 8,596.4 369.6 1-1,648.1 1,564.1 0.00 10,300 0 90.29 269.67 8,596.4 369.6 1-1,648.1 1,763.9 0.00 10,500 0 90.29 269.6 6 8,594.4 360.8 1.1,448.1 1,963.7 0.00 10,500 0 90.29 269.6 6 8,594.4 360.8 1.1,448.1 1,963.7 0.00 10,500 0 90.29 269.6 6 8,594.4 360.8 1.1,448.1 1,963.7 0.00 10,500 0 90.29 269.6 7 8,595.4 361.6 1.1,448.1 1,963.7 0.00 10,500 0 90.29 269.6 7 8,593.4 361.8 1.1,448.1 1,963.7 0.00 10,500 0 90.29 269.6 7 8,593.4 363.3 1-2,148.1 1,963.7 0.00 11,500 0 90.29 269.6 7 8,593.4 363.3 1-2,148.1 1,963.7 0.00 11,500 0 90.29 269.6 7 8,593.4 363.3 1-2,148.1 2,163.5 0.00 11,500 0 90.29 269.6 7 8,593.4 363.3 1-2,148.1 2,163.5 0.00 11,500 0 90.29 269.6 7 8,593.9 363.3 1-2,148.1 2,163.5 0.00 11,500 0 90.29 269.6 7 8,593.9 363.5 1-2,248.1 2,263.4 0.00 11,500 0 90.29 269.6 7 8,591.9 365.7 1-2,448.1 2,463.2 0.00 11,200 0 90.29 269.6 7 8,591.9 365.7 1-2,448.1 2,463.2 0.00 11,200 0 90.29 269.6 7 8,591.9 365.7 1-2,448.1 2,463.2 0.00 11,200 0 90.29 269.6 7 8,590.9 366.8 1-2,648.1 2,653.1 0.00 11,400 0 90.29 269.6 7 8,590.9 366.8 1-2,648.1 2,653.0 0.00 11,400 0 90.29 269.6 7 8,590.1 360.8 1-2,648.1 2,653.0 0.00 11,400 0 90.29 269.6 7 8,590.1 360.8 1-2,648.1 2,653.0 0.00 11,400 0 90.29 269.6 7 8,590.1 360.8 1-2,648.1 2,653.0 0.00 11,400 0 90.29 269.6 7 8,590.1 360.8 1-2,648.1 2,653.0 0.00 11,400 0 90.29 269.6 7 8,590.9 366.8 1-2,648.1 2,653.0 0.00 11,400 0 90.29 269.6 7 8,590.9 366.8 1-2,648.1 2,652.7 0.00 11,400 0 90.29 269.6 7 8,590.9 366.8 1-2,648.1 2,652.7 0.00 11,400 0 90.29 269.6 7 8,590.9 366.8 1-2,648.1 2,652.7 0.00 11,400 0 90.29 269.6 7 8,580.9 369.0 368.6 1-2,648.1 2,652.7 0.00 11,500 0 90.29 269.6 7 8,580.9 369.0 368.6 1-2,648.1 2,652.7 0.00 11,500 0 90.29 269.6 7 8,580.9 369.0 368.6 1-2,648.1 2,62.7 0.00 11,500 0 90.29 269.6 7 8,580.9 369.0 368.6 1-2,648.1 2,62.7 0.00 11,500 0 90.29 269.6 7 8,580.9 369.0 368.6 1-2,648.1 2,62.7 0.00 11,500 0 90.29 269.6 7 8,580.9 369.0 368.6	Rate	Rate
10,100 0 90.29 289.67 8,596.9 -359.9 1.4,448.1 1,464.2 0.00 10,200 0 90.29 289.67 8,596.9 -361.0 -1,648.1 1,664.0 0.00 10,300.0 90.29 289.67 8,595.4 -361.6 -1,748.1 1,664.0 0.00 10,400.0 90.29 289.67 8,595.4 -361.6 -1,748.1 1,668.0 0.00 10,500.0 90.29 289.67 8,594.4 -362.8 1,948.1 1,963.7 0.00 10,600.0 90.29 289.67 8,594.4 -362.8 1,948.1 1,963.7 0.00 10,700.0 90.29 289.67 8,594.4 -362.8 1,948.1 1,963.7 0.00 10,800.0 90.29 289.67 8,593.4 -363.3 -2,048.1 2,163.5 0.00 10,800.0 90.29 289.67 8,593.4 -363.3 -2,048.1 2,163.5 0.00 11,800.0 90.29 289.67 8,593.4 -363.3 -2,148.1 2,163.5 0.00 11,800.0 90.29 289.67 8,591.9 -365.7 -2,248.1 2,263.4 0.00 11,200.0 90.29 289.67 8,591.9 -365.7 -2,248.1 2,263.4 0.00 11,200.0 90.29 289.67 8,591.9 -365.7 -2,448.1 2,463.2 0.00 11,200.0 90.29 289.67 8,591.9 -365.7 -2,448.1 2,653.0 0.00 11,200.0 90.29 289.67 8,591.9 -365.7 -2,448.1 2,653.0 0.00 11,200.0 90.29 289.67 8,591.9 -365.7 -2,448.1 2,653.0 0.00 11,200.0 90.29 289.67 8,591.9 -365.7 -2,448.1 2,653.0 0.00 11,400.0 90.29 289.67 8,591.9 -366.8 -2,648.1 2,653.0 0.00 11,400.0 90.29 289.67 8,590.1 -367.4 -2,748.1 2,762.9 0.00 11,400.0 90.29 289.67 8,599.1 -367.4 -2,748.1 2,762.9 0.00 11,400.0 90.29 289.67 8,599.4 -368.8 -2,248.1 2,853.0 0.00 11,400.0 90.29 289.67 8,599.4 -368.6 -2,248.1 2,853.0 0.00 11,400.0 90.29 289.67 8,599.4 -368.6 -2,248.1 2,852.0 0.00 11,400.0 90.29 289.67 8,599.4 -368.6 -2,248.1 2,962.7 0.00 11,400.0 90.29 289.67 8,599.4 -368.6 -2,248.1 2,962.7 0.00 11,400.0 90.29 289.67 8,599.4 -368.6 -2,248.1 2,962.8 0.00 11,400.0 90.29 289.67 8,599.4 -368.6 -2,248.1 2,962.8 0.00 11,400.0 90.29 289.67 8,599.4 -368.6 -2,248.1 2,962.8 0.00 11,400.0 90.29 289.67 8,599.4 -368.6 -2,248.1 0,262.5 0.00 11,400.0 90.29 289.67 8,589.4 -368.6 -2,348.0 3,362.4 0.00 11,400.0 90.29 289.67 8,589.4 -368.6 -2,348.0 3,362.4 0.00 11,400.0 90.29 289.67 8,589.4 -368.6 -2,348.0 3,362.5 0.00 11,400.0 90.29 289.67 8,589.8 -375.5 -3448.0 3,362.0 0.00 12,200.0 90.29 289.67 8,589.8 -375.5 -3448.0 3,462.3 0.00 12,200.0 90.29 289.67 8,589.8 -375.5 -3448.0	(°/100usft)	(°/100usft)
10,200.0   90.29   269.67   8,596.9   -361.0   -1,648.1   1,664.1   0.00	0.00	0.00
10,200.0 90.29 289.67 8,596.4 -360.4 -1,548.1 1,564.1 0.00 10,300.0 90.29 289.67 8,595.9 -361.0 -1,648.1 1,664.0 0.00 10,400.0 90.29 289.67 8,595.4 -361.6 -1,748.1 1,763.9 0.00 10,600.0 90.29 289.67 8,594.4 -362.2 -1,848.1 1,163.8 0.00 10,600.0 90.29 289.67 8,594.4 -362.2 -1,948.1 1,963.7 0.00 10,600.0 90.29 289.67 8,594.4 -362.2 -1,948.1 1,963.7 0.00 10,800.0 90.29 289.67 8,593.9 -363.3 -2,048.1 2,163.5 0.00 10,800.0 90.29 289.67 8,593.9 -363.3 -2,148.1 2,163.5 0.00 10,800.0 90.29 289.67 8,591.9 -365.5 -2,248.1 2,263.4 0.00 11,100.0 90.29 289.67 8,591.9 -365.7 -2,448.1 2,163.5 0.00 11,100.0 90.29 289.67 8,591.9 -365.7 -2,448.1 2,633.3 0.00 11,100.0 90.29 289.67 8,591.9 -365.7 -2,448.1 2,663.0 0.00 11,100.0 90.29 289.67 8,591.9 -365.7 -2,448.1 2,663.0 0.00 11,400.0 90.29 269.67 8,591.9 -365.7 -2,448.1 2,663.0 0.00 11,400.0 90.29 269.67 8,590.9 -366.8 -2,648.1 2,563.1 0.00 11,400.0 90.29 269.67 8,590.9 -366.8 -2,648.1 2,563.1 0.00 11,400.0 90.29 269.67 8,590.9 -366.8 -2,648.1 2,563.1 0.00 11,1600.0 90.29 269.67 8,590.9 -366.8 -2,648.1 2,563.1 0.00 11,1600.0 90.29 269.67 8,590.9 -366.8 -2,648.1 2,563.1 0.00 11,1600.0 90.29 269.67 8,590.9 -366.8 -2,648.1 2,663.0 0.00 11,1700.0 90.29 289.67 8,590.9 -366.8 -2,648.1 2,663.0 0.00 11,1600.0 90.29 289.67 8,599.9 -366.0 2,248.1 2,662.8 0.00 11,1600.0 90.29 289.67 8,599.9 -366.0 2,248.1 2,662.8 0.00 11,1600.0 90.29 289.67 8,589.9 -366.0 2,248.1 3,162.5 0.00 11,1600.0 90.29 289.67 8,589.9 -366.0 2,348.1 3,162.5 0.00 11,1600.0 90.29 289.67 8,589.9 -366.0 3,348.1 3,162.5 0.00 11,1600.0 90.29 289.67 8,589.4 -368.6 2,348.1 3,362.6 0.00 11,1600.0 90.29 289.67 8,589.4 -368.6 2,348.1 3,362.5 0.00 11,200.0 90.29 289.67 8,589.4 -368.6 3,348.1 3,362.5 0.00 11,200.0 90.29 289.67 8,589.4 -368.8 3,348.0 3,362.4 0.00 12,200.0 90.29 289.67 8,589.4 -368.8 3,348.0 3,362.2 0.00 12,200.0 90.29 289.67 8,588.9 -369.2 3,348.0 3,362.2 0.00 12,200.0 90.29 289.67 8,589.4 -368.6 3,348.0 3,362.2 0.00 12,200.0 90.29 289.67 8,589.3 3,379.1 4,448.0 4,661.7 0.00 12,200.0 90.29 289.67 8,589.3 3,379.1 4,4	0.00	0.00
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10,500.0 90.29 269.67 8,594.9 -362.2 -1,848.1 1,863.8 0.00 10,600.0 90.29 269.67 8,599.9 -363.3 -2,048.1 1,963.7 0.00 10,800.0 90.29 269.67 8,599.9 -363.3 -2,048.1 2,603.6 0.00 10,900.0 90.29 269.67 8,599.9 -363.3 -2,048.1 2,603.3 0.00 11,900.0 90.29 269.67 8,592.9 -364.5 -2,248.1 2,263.3 0.00 11,000.0 90.29 269.67 8,592.9 -364.5 -2,248.1 2,263.3 0.00 11,000.0 90.29 269.67 8,591.9 -365.7 -2,448.1 2,603.3 0.00 11,000.0 90.29 269.67 8,591.9 -366.7 -2,448.1 2,603.3 0.00 11,000.0 90.29 269.67 8,591.4 -366.3 -2,548.1 2,563.3 0.00 11,000.0 90.29 269.67 8,591.4 -366.3 -2,548.1 2,563.0 0.00 11,000.0 90.29 269.67 8,591.4 -366.3 -2,548.1 2,563.0 0.00 11,000.0 90.29 269.67 8,591.4 -366.3 -2,548.1 2,563.0 0.00 11,461.9 90.29 269.67 8,590.4 -367.4 -2,748.1 2,762.9 0.00 11,461.9 90.29 269.67 8,590.4 -367.4 -2,748.1 2,762.9 0.00 11,461.9 90.29 269.67 8,590.4 -367.4 -2,748.1 2,762.9 0.00 11,461.9 90.29 269.67 8,590.4 -367.4 -2,748.1 2,762.9 0.00 11,460.0 90.29 269.67 8,590.4 -367.8 -2,810.0 2,824.8 0.00 11,600.0 90.29 269.67 8,580.4 -367.8 -2,810.0 2,824.8 0.00 11,600.0 90.29 269.67 8,580.4 -368.6 -2,948.1 2,663.0 0.00 11,700.0 90.29 269.67 8,580.4 -368.6 -2,948.1 2,662.6 0.00 11,700.0 90.29 269.67 8,580.4 -368.6 -2,948.1 3,062.6 0.00 11,700.0 90.29 269.67 8,580.9 -368.0 -2,848.1 3,062.6 0.00 11,700.0 90.29 269.67 8,580.9 -368.0 -2,848.1 3,062.5 0.00 11,700.0 90.29 269.67 8,580.9 -368.0 -2,488.1 3,062.5 0.00 11,800.0 90.29 269.67 8,580.9 -368.0 -2,488.1 3,062.5 0.00 11,800.0 90.29 269.67 8,580.9 -368.0 -2,488.1 3,062.5 0.00 11,800.0 90.29 269.67 8,580.9 -368.0 -2,488.1 3,062.5 0.00 11,800.0 90.29 269.67 8,580.9 -368.0 -2,488.1 3,062.5 0.00 11,800.0 90.29 269.67 8,580.9 -368.0 -3,488.1 3,062.5 0.00 11,800.0 90.29 269.67 8,580.9 -371.5 -3,480.0 3,362.5 0.00 11,800.0 90.29 269.67 8,580.9 -371.5 -3,480.0 3,362.1 0.00 11,800.0 90.29 269.67 8,580.8 -371.5 -3,480.0 3,362.1 0.00 11,800.0 90.29 269.67 8,580.8 -371.5 -3,480.0 3,362.1 0.00 11,800.0 90.29 269.67 8,580.8 -3772.7 -3,648.0 3,662.1 0.00 11,800.0 90.29 269.67 8,580.8 -3773.3 -		0.00
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PPP2: 2050' FNL & 0' FEL (Sec 1)  11,500.0 90.29 269.67 8,589.9 -368.0 -2,848.1 2,862.8 0.00  11,600.0 90.29 269.67 8,588.9 -369.2 -3,048.1 3,062.6 0.00  11,700.0 90.29 269.67 8,588.9 -369.2 -3,048.1 3,062.6 0.00  11,800.0 90.29 269.67 8,588.4 -369.8 -3,148.1 3,162.5 0.00  11,900.0 90.29 269.67 8,587.9 -370.3 -3,248.0 3,262.5 0.00  12,000.0 90.29 269.67 8,587.9 -370.3 -3,248.0 3,362.4 0.00  12,100.0 90.29 269.67 8,586.9 -371.5 -3,448.0 3,362.3 0.00  12,200.0 90.29 269.67 8,586.9 -371.5 -3,448.0 3,362.2 0.00  12,200.0 90.29 269.67 8,585.4 -372.1 -3,548.0 3,562.2 0.00  12,400.0 90.29 269.67 8,585.3 -372.7 -3,648.0 3,662.1 0.00  12,400.0 90.29 269.67 8,585.3 -373.3 -3,748.0 3,762.0 0.00  12,500.0 90.29 269.67 8,584.8 -373.8 -3,848.0 3,861.9 0.00  12,500.0 90.29 269.67 8,583.8 -375.0 -4,048.0 4,061.7 0.00  12,800.0 90.29 269.67 8,583.8 -375.0 -4,048.0 4,061.7 0.00  12,800.0 90.29 269.67 8,581.8 -375.0 -4,048.0 4,061.7 0.00  12,900.0 90.29 269.67 8,581.8 -375.0 -4,048.0 4,161.6 0.00  12,900.0 90.29 269.67 8,581.8 -377.3 -4,448.0 4,461.3 0.00  13,100.0 90.29 269.67 8,581.8 -377.9 -4,548.0 4,361.4 0.00  13,100.0 90.29 269.67 8,581.8 -377.9 -4,548.0 4,361.4 0.00  13,100.0 90.29 269.67 8,581.8 -377.9 -4,548.0 4,361.4 0.00  13,100.0 90.29 269.67 8,581.8 -377.9 -4,548.0 4,361.4 0.00  13,100.0 90.29 269.67 8,581.8 -377.9 -4,548.0 4,561.2 0.00  13,500.0 90.29 269.67 8,580.3 -379.1 -4,748.0 4,761.0 0.00  13,500.0 90.29 269.67 8,580.3 -379.1 -4,748.0 4,761.0 0.00  13,500.0 90.29 269.67 8,579.3 -380.3 -4,948.0 5,660.1 0.00  13,600.0 90.29 269.67 8,578.3 -381.4 -5,148.0 5,160.6 0.00  13,600.0 90.29 269.67 8,578.3 -380.3 -4,948.0 5,660.1 0.00  14,100.0 90.29 269.67 8,575.8 -382.2 -5,448.0 5,660.5 0.00  14,100.0 90.29 269.67 8,575.3 -388.4 -5,548.0 5,560.2 0.00  14,100.0 90.29 269.67 8,575.8 -383.2 -5,448.0 5,660.1 0.00  14,100.0 90.29 269.67 8,575.8 -383.2 -5,448.0 5,660.1 0.00  14,100.0 90.29 269.67 8,575.8 -383.2 -5,448.0 5,560.5 0.00  14,100.0 90.29 269.67 8,575.8 -384.9 -5,748.0 5,560.1 0.00  14,500.0 90.29 269.67 8,575.3 -3		
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11,800.0       90.29       269.67       8,588.4       -369.8       -3,148.1       3,162.5       0.00         11,900.0       90.29       269.67       8,587.9       -370.3       -3,248.0       3,262.5       0.00         12,100.0       90.29       269.67       8,587.4       -370.9       -3,348.0       3,362.4       0.00         12,100.0       90.29       269.67       8,586.4       -371.5       -3,448.0       3,462.3       0.00         12,200.0       90.29       269.67       8,586.4       -372.1       -3,548.0       3,562.2       0.00         12,300.0       90.29       269.67       8,585.8       -372.7       -3,648.0       3,662.1       0.00         12,400.0       90.29       269.67       8,585.3       -373.8       -3,648.0       3,661.9       0.00         12,500.0       90.29       269.67       8,584.3       -374.4       -3,948.0       3,661.9       0.00         12,600.0       90.29       269.67       8,583.8       -375.6       -4,048.0       4,061.7       0.00         12,900.0       90.29       269.67       8,582.8       -376.2       -4,248.0       4,261.5       0.00         13,000.0       90.29	0.00	0.00
11,900.0 90.29 269.67 8,586.9 -370.3 -3,248.0 3,262.5 0.00 12,000.0 90.29 269.67 8,586.9 -371.5 -3,448.0 3,62.3 0.00 12,100.0 90.29 269.67 8,586.9 -371.5 -3,448.0 3,62.3 0.00 12,200.0 90.29 269.67 8,586.4 -372.1 -3,548.0 3,562.2 0.00 12,300.0 90.29 269.67 8,585.8 -372.7 -3,648.0 3,662.1 0.00 12,400.0 90.29 269.67 8,585.8 -372.7 -3,648.0 3,662.1 0.00 12,500.0 90.29 269.67 8,584.3 -373.3 -3,748.0 3,662.1 0.00 12,500.0 90.29 269.67 8,584.8 -373.8 -3,848.0 3,861.9 0.00 12,700.0 90.29 269.67 8,584.3 -374.4 -3,948.0 3,961.8 0.00 12,700.0 90.29 269.67 8,584.3 -375.0 -4,048.0 4,061.7 0.00 12,700.0 90.29 269.67 8,582.3 -375.0 -4,048.0 4,061.7 0.00 12,900.0 90.29 269.67 8,582.8 -376.2 -4,248.0 4,161.6 0.00 13,000.0 90.29 269.67 8,582.3 -376.8 -4,348.0 4,361.4 0.00 13,100.0 90.29 269.67 8,581.8 -377.3 -4,448.0 4,461.3 0.00 13,100.0 90.29 269.67 8,581.8 -377.3 -4,448.0 4,461.3 0.00 13,300.0 90.29 269.67 8,580.8 -378.5 -4,648.0 4,661.1 0.00 13,300.0 90.29 269.67 8,580.8 -378.5 -4,648.0 4,661.1 0.00 13,300.0 90.29 269.67 8,580.8 -378.5 -4,648.0 4,661.1 0.00 13,300.0 90.29 269.67 8,580.8 -378.5 -4,648.0 4,661.1 0.00 13,500.0 90.29 269.67 8,580.8 -379.7 -4,848.0 4,860.9 0.00 13,600.0 90.29 269.67 8,578.8 -330.3 -4,948.0 4,860.9 0.00 13,700.0 90.29 269.67 8,578.8 -330.3 -4,948.0 4,860.9 0.00 13,500.0 90.29 269.67 8,578.8 -330.3 -4,948.0 4,860.9 0.00 13,500.0 90.29 269.67 8,578.8 -380.8 -5,048.0 5,660.1 0.00 13,100.0 90.29 269.67 8,578.8 -380.8 -5,048.0 5,660.1 0.00 14,100.0 90.29 269.67 8,578.8 -380.2 -5,448.0 5,660.3 0.00 14,100.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,660.1 0.00 14,100.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,660.1 0.00 14,100.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,660.1 0.00 14,100.0 90.29 269.67 8,575.3 -383.8 -5,548.0 5,660.1 0.00 14,100.0 90.29 269.67 8,575.3 -383.8 -5,548.0 5,660.1 0.00 14,000.0 90.29 269.67 8,575.3 -383.8 -5,548.0 5,560.1 0.00 14,300.0 90.29 269.67 8,575.3 -384.9 -5,548.0 5,560.1 0.00 14,400.0 90.29 269.67 8,575.3 -384.9 -5,548.0 5,560.1 0.00 14,500.0 90.29 269.67 8,575.3 -384.9 -5,54	0.00	0.00
12,000.0       90.29       269.67       8,587.4       -370.9       -3,348.0       3,362.4       0.00         12,100.0       90.29       269.67       8,586.9       -371.5       -3,448.0       3,462.3       0.00         12,200.0       90.29       269.67       8,585.8       -372.1       -3,548.0       3,562.2       0.00         12,400.0       90.29       269.67       8,585.8       -377.7       -3,648.0       3,662.1       0.00         12,400.0       90.29       269.67       8,585.8       -373.8       -3,648.0       3,661.9       0.00         12,500.0       90.29       269.67       8,584.3       -373.8       -3,848.0       3,861.9       0.00         12,500.0       90.29       269.67       8,584.3       -375.0       -4,048.0       3,961.8       0.00         12,500.0       90.29       269.67       8,583.8       -375.0       -4,048.0       3,661.9       0.00         12,600.0       90.29       269.67       8,582.8       -376.2       -4,248.0       4,261.5       0.00         12,900.0       90.29       269.67       8,582.8       -376.2       -4,248.0       4,261.5       0.00         13,000.0       90.29	0.00	0.00
12,000.0       90.29       269.67       8,587.4       -370.9       -3,348.0       3,362.4       0.00         12,100.0       90.29       269.67       8,586.9       -371.5       -3,448.0       3,462.3       0.00         12,200.0       90.29       269.67       8,585.8       -372.1       -3,548.0       3,562.2       0.00         12,300.0       90.29       269.67       8,585.8       -377.7       -3,648.0       3,662.1       0.00         12,400.0       90.29       269.67       8,585.8       -373.3       -3,748.0       3,762.0       0.00         12,500.0       90.29       269.67       8,584.3       -373.8       -3,848.0       3,861.9       0.00         12,500.0       90.29       269.67       8,584.3       -375.0       -4,048.0       3,961.8       0.00         12,500.0       90.29       269.67       8,583.8       -375.0       -4,048.0       3,961.8       0.00         12,500.0       90.29       269.67       8,582.8       -376.2       -4,248.0       4,061.7       0.00         12,500.0       90.29       269.67       8,582.8       -376.2       -4,248.0       4,261.5       0.00         13,000.0       90.29	0.00	0.00
12,100.0       90.29       269.67       8,586.9       -371.5       -3,448.0       3,462.3       0.00         12,200.0       90.29       269.67       8,586.4       -372.1       -3,548.0       3,562.2       0.00         12,300.0       90.29       269.67       8,585.8       -372.7       -3,648.0       3,662.1       0.00         12,400.0       90.29       269.67       8,584.8       -373.3       -3,748.0       3,762.0       0.00         12,500.0       90.29       269.67       8,584.8       -373.8       -3,848.0       3,861.9       0.00         12,500.0       90.29       269.67       8,584.8       -375.0       -4,048.0       3,661.8       0.00         12,500.0       90.29       269.67       8,583.3       -375.0       -4,048.0       3,661.8       0.00         12,800.0       90.29       269.67       8,582.8       -376.2       -4,248.0       4,261.5       0.00         13,000.0       90.29       269.67       8,582.8       -376.2       -4,248.0       4,261.5       0.00         13,000.0       90.29       269.67       8,581.3       -377.3       -4,448.0       4,461.3       0.00         13,200.0       90.29	0.00	0.00
12,200.0       90.29       269.67       8,586.4       -372.1       -3,548.0       3,562.2       0.00         12,300.0       90.29       269.67       8,585.8       -372.7       -3,648.0       3,662.1       0.00         12,400.0       90.29       269.67       8,585.3       -373.3       -3,748.0       3,762.0       0.00         12,500.0       90.29       269.67       8,584.8       -373.8       -3,848.0       3,861.9       0.00         12,600.0       90.29       269.67       8,584.3       -374.4       -3,948.0       3,961.8       0.00         12,700.0       90.29       269.67       8,583.8       -375.0       -4,048.0       4,061.7       0.00         12,900.0       90.29       269.67       8,582.8       -375.6       -4,148.0       4,161.6       0.00         13,000.0       90.29       269.67       8,582.8       -376.2       -4,248.0       4,261.5       0.00         13,000.0       90.29       269.67       8,581.8       -377.3       -4,448.0       4,461.3       0.00         13,200.0       90.29       269.67       8,581.3       -377.9       -4,548.0       4,561.2       0.00         13,400.0       90.29		
12,300.0       90.29       269.67       8,585.8       -372.7       -3,648.0       3,662.1       0.00         12,400.0       90.29       269.67       8,585.3       -373.3       -3,748.0       3,762.0       0.00         12,500.0       90.29       269.67       8,584.8       -373.8       -3,848.0       3,861.9       0.00         12,600.0       90.29       269.67       8,583.8       -375.0       -4,048.0       4,061.7       0.00         12,700.0       90.29       269.67       8,583.3       -375.0       -4,048.0       4,061.7       0.00         12,900.0       90.29       269.67       8,582.8       -376.2       -4,248.0       4,261.5       0.00         13,000.0       90.29       269.67       8,582.8       -376.2       -4,248.0       4,261.5       0.00         13,000.0       90.29       269.67       8,581.8       -377.3       -4,448.0       4,461.3       0.00         13,200.0       90.29       269.67       8,581.8       -377.3       -4,448.0       4,461.3       0.00         13,400.0       90.29       269.67       8,580.3       -378.5       -4,648.0       4,661.1       0.00         13,500.0       90.29	0.00	0.00
12,400.0 90.29 269.67 8,584.8 -373.8 -3,748.0 3,762.0 0.00 12,500.0 90.29 269.67 8,584.8 -373.8 -3,848.0 3,861.9 0.00 12,600.0 90.29 269.67 8,584.3 -374.4 -3,948.0 3,961.8 0.00 12,700.0 90.29 269.67 8,583.8 -375.0 -4,048.0 4,061.7 0.00 12,800.0 90.29 269.67 8,583.3 -375.6 -4,148.0 4,161.6 0.00 12,900.0 90.29 269.67 8,582.8 -376.2 -4,248.0 4,261.5 0.00 13,000.0 90.29 269.67 8,582.3 -376.8 -4,348.0 4,361.4 0.00 13,100.0 90.29 269.67 8,581.8 -377.3 -4,448.0 4,461.3 0.00 13,200.0 90.29 269.67 8,581.8 -377.3 -4,448.0 4,461.3 0.00 13,200.0 90.29 269.67 8,581.8 -377.3 -4,448.0 4,661.1 0.00 13,300.0 90.29 269.67 8,580.8 -378.5 -4,648.0 4,661.1 0.00 13,400.0 90.29 269.67 8,580.8 -378.5 -4,648.0 4,661.1 0.00 13,500.0 90.29 269.67 8,580.8 -379.1 -4,748.0 4,761.0 0.00 13,600.0 90.29 269.67 8,579.8 -379.1 -4,748.0 4,761.0 0.00 13,600.0 90.29 269.67 8,578.8 -380.3 -4,948.0 4,960.8 0.00 13,700.0 90.29 269.67 8,578.8 -380.3 -4,948.0 4,960.8 0.00 13,700.0 90.29 269.67 8,578.8 -380.8 -5,048.0 5,060.7 0.00 13,900.0 90.29 269.67 8,578.8 -380.8 -5,048.0 5,060.7 0.00 13,900.0 90.29 269.67 8,578.8 -380.8 -5,048.0 5,660.7 0.00 14,100.0 90.29 269.67 8,578.8 -382.0 -5,248.0 5,260.5 0.00 14,100.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,460.3 0.00 14,100.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,460.3 0.00 14,100.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,660.3 0.00 14,100.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,660.3 0.00 14,100.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,660.3 0.00 14,100.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,660.3 0.00 14,100.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,660.1 0.00 14,100.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,660.3 0.00 14,100.0 90.29 269.67 8,575.3 -384.9 -5,548.0 5,560.2 0.00 14,100.0 90.29 269.67 8,575.3 -384.9 -5,548.0 5,560.5 0.00 14,000.0 90.29 269.67 8,575.3 -384.9 -5,548.0 5,560.5 0.00 14,000.0 90.29 269.67 8,575.3 -384.9 -5,548.0 5,560.5 0.00 14,000.0 90.29 269.67 8,575.3 -384.9 -5,548.0 5,560.5 0.00 14,000.0 90.29 269.67 8,575.3 -384.9 -5,548.0 5,560.5 0.00	0.00	0.00
12,500.0       90.29       269.67       8,584.8       -373.8       -3,848.0       3,861.9       0.00         12,600.0       90.29       269.67       8,584.3       -374.4       -3,948.0       3,961.8       0.00         12,700.0       90.29       269.67       8,583.8       -375.0       -4,048.0       4,061.7       0.00         12,800.0       90.29       269.67       8,582.8       -375.6       -4,148.0       4,161.6       0.00         12,900.0       90.29       269.67       8,582.8       -376.2       -4,248.0       4,261.5       0.00         13,000.0       90.29       269.67       8,581.8       -377.3       -4,448.0       4,361.4       0.00         13,000.0       90.29       269.67       8,581.8       -377.3       -4,448.0       4,461.3       0.00         13,200.0       90.29       269.67       8,581.3       -377.9       -4,548.0       4,561.2       0.00         13,300.0       90.29       269.67       8,580.8       -378.5       -4,648.0       4,661.1       0.00         13,400.0       90.29       269.67       8,580.3       -379.7       -4,848.0       4,860.9       0.00         13,600.0       90.29	0.00	0.00
12,600.0       90.29       269.67       8,584.3       -374.4       -3,948.0       3,961.8       0.00         12,700.0       90.29       269.67       8,583.8       -375.0       -4,048.0       4,061.7       0.00         12,800.0       90.29       269.67       8,583.3       -375.6       -4,148.0       4,161.6       0.00         12,900.0       90.29       269.67       8,582.8       -376.2       -4,248.0       4,261.5       0.00         13,000.0       90.29       269.67       8,582.3       -376.8       -4,348.0       4,361.4       0.00         13,100.0       90.29       269.67       8,581.8       -377.3       -4,448.0       4,661.3       0.00         13,200.0       90.29       269.67       8,581.8       -377.9       -4,548.0       4,561.2       0.00         13,300.0       90.29       269.67       8,580.8       -378.5       -4,648.0       4,661.1       0.00         13,400.0       90.29       269.67       8,580.3       -379.7       -4,848.0       4,860.9       0.00         13,600.0       90.29       269.67       8,579.8       -379.7       -4,848.0       4,960.8       0.00         13,600.0       90.29	0.00	0.00
12,700.0       90.29       269.67       8,583.8       -375.0       -4,048.0       4,061.7       0.00         12,800.0       90.29       269.67       8,583.3       -375.6       -4,148.0       4,161.6       0.00         12,900.0       90.29       269.67       8,582.8       -376.2       -4,248.0       4,261.5       0.00         13,000.0       90.29       269.67       8,581.8       -377.3       -4,448.0       4,461.3       0.00         13,100.0       90.29       269.67       8,581.8       -377.3       -4,448.0       4,461.3       0.00         13,200.0       90.29       269.67       8,581.8       -377.9       -4,548.0       4,561.2       0.00         13,300.0       90.29       269.67       8,580.8       -378.5       -4,648.0       4,661.1       0.00         13,400.0       90.29       269.67       8,580.3       -379.7       -4,848.0       4,860.9       0.00         13,600.0       90.29       269.67       8,579.8       -379.7       -4,848.0       4,860.9       0.00         13,700.0       90.29       269.67       8,578.8       -380.3       -4,948.0       4,960.8       0.00         13,700.0       90.29	0.00	0.00
12,700.0       90.29       269.67       8,583.8       -375.0       -4,048.0       4,061.7       0.00         12,800.0       90.29       269.67       8,583.3       -375.6       -4,148.0       4,161.6       0.00         12,900.0       90.29       269.67       8,582.8       -376.2       -4,248.0       4,261.5       0.00         13,000.0       90.29       269.67       8,581.8       -377.3       -4,448.0       4,461.3       0.00         13,100.0       90.29       269.67       8,581.8       -377.3       -4,448.0       4,461.3       0.00         13,200.0       90.29       269.67       8,581.3       -377.9       -4,548.0       4,561.2       0.00         13,300.0       90.29       269.67       8,580.8       -378.5       -4,648.0       4,661.1       0.00         13,400.0       90.29       269.67       8,580.3       -379.1       -4,748.0       4,761.0       0.00         13,500.0       90.29       269.67       8,579.8       -379.7       -4,848.0       4,860.9       0.00         13,600.0       90.29       269.67       8,578.8       -380.3       -4,948.0       4,960.8       0.00         13,700.0       90.29	0.00	0.00
12,800.0 90.29 269.67 8,583.3 -375.6 -4,148.0 4,161.6 0.00  12,900.0 90.29 269.67 8,582.8 -376.2 -4,248.0 4,261.5 0.00  13,000.0 90.29 269.67 8,582.3 -376.8 -4,348.0 4,361.4 0.00  13,100.0 90.29 269.67 8,581.8 -377.3 -4,448.0 4,461.3 0.00  13,200.0 90.29 269.67 8,581.3 -377.9 -4,548.0 4,661.2 0.00  13,300.0 90.29 269.67 8,580.8 -378.5 -4,648.0 4,661.1 0.00  13,400.0 90.29 269.67 8,580.3 -379.1 -4,748.0 4,761.0 0.00  13,500.0 90.29 269.67 8,579.8 -379.7 -4,848.0 4,860.9 0.00  13,600.0 90.29 269.67 8,579.8 -380.3 -4,948.0 4,960.8 0.00  13,700.0 90.29 269.67 8,578.8 -380.8 -5,048.0 5,060.7 0.00  13,800.0 90.29 269.67 8,578.3 -381.4 -5,148.0 5,160.6 0.00  13,900.0 90.29 269.67 8,578.8 -382.0 -5,248.0 5,260.5 0.00  14,000.0 90.29 269.67 8,576.8 -382.0 -5,248.0 5,360.4 0.00  14,100.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,460.3 0.00  14,100.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,460.3 0.00  14,100.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,560.2 0.00  14,100.0 90.29 269.67 8,576.8 -383.2 -5,488.0 5,560.2 0.00  14,000.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,560.2 0.00  14,100.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,560.2 0.00  14,100.0 90.29 269.67 8,576.8 -383.2 -5,488.0 5,560.2 0.00  14,000.0 90.29 269.67 8,576.8 -383.2 -5,488.0 5,560.2 0.00  14,000.0 90.29 269.67 8,576.8 -383.2 -5,488.0 5,560.2 0.00  14,000.0 90.29 269.67 8,576.8 -383.2 -5,488.0 5,560.2 0.00  14,000.0 90.29 269.67 8,576.8 -383.2 -5,488.0 5,560.2 0.00  14,000.0 90.29 269.67 8,576.8 -383.2 -5,488.0 5,560.2 0.00  14,000.0 90.29 269.67 8,576.8 -383.8 -5,548.0 5,560.1 0.00  14,000.0 90.29 269.67 8,576.8 -384.3 -5,648.0 5,660.1 0.00  14,000.0 90.29 269.67 8,575.3 -384.9 -5,748.0 5,560.1 0.00  14,000.0 90.29 269.67 8,575.3 -384.9 -5,748.0 5,560.1 0.00  14,600.0 90.29 269.67 8,574.8 -385.5 -5,848.0 5,859.9 0.00  14,600.0 90.29 269.67 8,574.3 -386.1 -5,948.0 5,959.8 0.00	0.00	0.00
12,900.0 90.29 269.67 8,582.8 -376.2 -4,248.0 4,261.5 0.00 13,000.0 90.29 269.67 8,582.3 -376.8 -4,348.0 4,361.4 0.00 13,100.0 90.29 269.67 8,581.8 -377.3 -4,448.0 4,461.3 0.00 13,200.0 90.29 269.67 8,581.3 -377.9 -4,548.0 4,561.2 0.00 13,300.0 90.29 269.67 8,580.8 -378.5 -4,648.0 4,661.1 0.00 13,400.0 90.29 269.67 8,580.8 -378.5 -4,648.0 4,661.1 0.00 13,500.0 90.29 269.67 8,579.8 -379.7 -4,848.0 4,860.9 0.00 13,500.0 90.29 269.67 8,579.8 -379.7 -4,848.0 4,860.9 0.00 13,600.0 90.29 269.67 8,579.3 -380.3 -4,948.0 4,960.8 0.00 13,700.0 90.29 269.67 8,578.8 -380.8 -5,048.0 5,060.7 0.00 13,800.0 90.29 269.67 8,578.8 -380.8 -5,048.0 5,060.7 0.00 13,900.0 90.29 269.67 8,578.3 -381.4 -5,148.0 5,160.6 0.00 14,000.0 90.29 269.67 8,577.8 -382.0 -5,248.0 5,260.5 0.00 14,100.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,360.4 0.00 14,103.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,460.3 0.00 14,103.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,460.3 0.00 14,103.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,460.3 0.00 14,103.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,460.3 0.00 14,103.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,460.3 0.00 14,103.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,560.2 0.00 14,200.0 90.29 269.67 8,576.8 -383.2 -5,448.0 5,560.2 0.00 14,200.0 90.29 269.67 8,575.8 -383.8 -5,548.0 5,560.2 0.00 14,300.0 90.29 269.67 8,575.8 -383.8 -5,548.0 5,560.2 0.00 14,400.0 90.29 269.67 8,575.8 -383.8 -5,548.0 5,560.2 0.00 14,400.0 90.29 269.67 8,575.8 -383.8 -5,548.0 5,560.1 0.00 14,400.0 90.29 269.67 8,575.8 -384.9 -5,748.0 5,560.1 0.00 14,400.0 90.29 269.67 8,575.3 -384.9 -5,748.0 5,560.1 0.00 14,400.0 90.29 269.67 8,575.3 -384.9 -5,748.0 5,560.1 0.00 14,600.0 90.29 269.67 8,574.8 -385.5 -5,848.0 5,859.9 0.00 14,600.0 90.29 269.67 8,574.8 -385.5 -5,848.0 5,859.9 0.00 14,600.0 90.29 269.67 8,574.3 -386.1 -5,948.0 5,959.8 0.00	0.00	0.00
13,000.0       90.29       269.67       8,582.3       -376.8       -4,348.0       4,361.4       0.00         13,100.0       90.29       269.67       8,581.8       -377.3       -4,448.0       4,461.3       0.00         13,200.0       90.29       269.67       8,581.3       -377.9       -4,548.0       4,561.2       0.00         13,300.0       90.29       269.67       8,580.8       -378.5       -4,648.0       4,661.1       0.00         13,400.0       90.29       269.67       8,580.3       -379.1       -4,748.0       4,761.0       0.00         13,500.0       90.29       269.67       8,579.8       -379.7       -4,848.0       4,860.9       0.00         13,600.0       90.29       269.67       8,579.3       -380.3       -4,948.0       4,860.9       0.00         13,600.0       90.29       269.67       8,578.8       -380.8       -5,048.0       5,060.7       0.00         13,700.0       90.29       269.67       8,578.3       -381.4       -5,148.0       5,160.6       0.00         13,900.0       90.29       269.67       8,577.8       -382.0       -5,248.0       5,260.5       0.00         14,000.0       90.29		
13,100.0       90.29       269.67       8,581.8       -377.3       -4,448.0       4,461.3       0.00         13,200.0       90.29       269.67       8,581.3       -377.9       -4,548.0       4,561.2       0.00         13,300.0       90.29       269.67       8,580.8       -378.5       -4,648.0       4,661.1       0.00         13,400.0       90.29       269.67       8,580.3       -379.1       -4,748.0       4,761.0       0.00         13,500.0       90.29       269.67       8,579.8       -379.7       -4,848.0       4,860.9       0.00         13,600.0       90.29       269.67       8,579.3       -380.3       -4,948.0       4,960.8       0.00         13,700.0       90.29       269.67       8,578.8       -380.8       -5,048.0       5,060.7       0.00         13,800.0       90.29       269.67       8,578.3       -381.4       -5,148.0       5,160.6       0.00         13,900.0       90.29       269.67       8,577.8       -382.0       -5,248.0       5,260.5       0.00         14,000.0       90.29       269.67       8,576.8       -383.2       -5,448.0       5,460.3       0.00         14,103.0       90.29	0.00	0.00
13,200.0       90.29       269.67       8,581.3       -377.9       -4,548.0       4,561.2       0.00         13,300.0       90.29       269.67       8,580.8       -378.5       -4,648.0       4,661.1       0.00         13,400.0       90.29       269.67       8,580.3       -379.1       -4,748.0       4,761.0       0.00         13,500.0       90.29       269.67       8,579.8       -379.7       -4,848.0       4,860.9       0.00         13,600.0       90.29       269.67       8,579.3       -380.3       -4,948.0       4,960.8       0.00         13,700.0       90.29       269.67       8,578.8       -380.8       -5,048.0       5,060.7       0.00         13,800.0       90.29       269.67       8,578.3       -381.4       -5,148.0       5,160.6       0.00         13,900.0       90.29       269.67       8,577.8       -382.0       -5,248.0       5,260.5       0.00         14,000.0       90.29       269.67       8,576.8       -383.2       -5,448.0       5,460.3       0.00         14,103.0       90.29       269.67       8,576.8       -383.2       -5,451.0       5,463.3       0.00         PPP3: 2050' FNL & 2640'	0.00	0.00
13,300.0       90.29       269.67       8,580.8       -378.5       -4,648.0       4,661.1       0.00         13,400.0       90.29       269.67       8,580.3       -379.1       -4,748.0       4,761.0       0.00         13,500.0       90.29       269.67       8,579.8       -379.7       -4,848.0       4,860.9       0.00         13,600.0       90.29       269.67       8,579.3       -380.3       -4,948.0       4,960.8       0.00         13,700.0       90.29       269.67       8,578.8       -380.8       -5,048.0       5,060.7       0.00         13,800.0       90.29       269.67       8,578.3       -381.4       -5,148.0       5,160.6       0.00         13,900.0       90.29       269.67       8,577.8       -382.0       -5,248.0       5,260.5       0.00         14,000.0       90.29       269.67       8,577.8       -382.6       -5,348.0       5,360.4       0.00         14,103.0       90.29       269.67       8,576.8       -383.2       -5,451.0       5,463.3       0.00         PPP3: 2050' FNL & 2640' FWL (1)         14,200.0       90.29       269.67       8,576.3       -383.8       -5,548.0       5,560.2	0.00	0.00
13,300.0       90.29       269.67       8,580.8       -378.5       -4,648.0       4,661.1       0.00         13,400.0       90.29       269.67       8,580.3       -379.1       -4,748.0       4,761.0       0.00         13,500.0       90.29       269.67       8,579.8       -379.7       -4,848.0       4,860.9       0.00         13,600.0       90.29       269.67       8,579.3       -380.3       -4,948.0       4,960.8       0.00         13,700.0       90.29       269.67       8,578.8       -380.8       -5,048.0       5,060.7       0.00         13,800.0       90.29       269.67       8,578.3       -381.4       -5,148.0       5,160.6       0.00         13,900.0       90.29       269.67       8,577.8       -382.0       -5,248.0       5,260.5       0.00         14,000.0       90.29       269.67       8,577.8       -382.6       -5,348.0       5,360.4       0.00         14,103.0       90.29       269.67       8,576.8       -383.2       -5,451.0       5,463.3       0.00         PPP3: 2050' FNL & 2640' FWL (1)         14,200.0       90.29       269.67       8,576.8       -383.8       -5,548.0       5,560.2	0.00	0.00
13,500.0       90.29       269.67       8,579.8       -379.7       -4,848.0       4,860.9       0.00         13,600.0       90.29       269.67       8,579.3       -380.3       -4,948.0       4,960.8       0.00         13,700.0       90.29       269.67       8,578.8       -380.8       -5,048.0       5,060.7       0.00         13,800.0       90.29       269.67       8,578.3       -381.4       -5,148.0       5,160.6       0.00         13,900.0       90.29       269.67       8,577.8       -382.0       -5,248.0       5,260.5       0.00         14,000.0       90.29       269.67       8,577.3       -382.6       -5,348.0       5,360.4       0.00         14,103.0       90.29       269.67       8,576.8       -383.2       -5,448.0       5,460.3       0.00         PPP3: 2050' FNL & 2640' FWL (1)         14,200.0       90.29       269.67       8,576.8       -383.8       -5,548.0       5,560.2       0.00         14,300.0       90.29       269.67       8,575.8       -384.3       -5,648.0       5,660.1       0.00         14,400.0       90.29       269.67       8,575.8       -384.9       -5,748.0       5,760.0	0.00	0.00
13,500.0       90.29       269.67       8,579.8       -379.7       -4,848.0       4,860.9       0.00         13,600.0       90.29       269.67       8,579.3       -380.3       -4,948.0       4,960.8       0.00         13,700.0       90.29       269.67       8,578.8       -380.8       -5,048.0       5,060.7       0.00         13,800.0       90.29       269.67       8,578.3       -381.4       -5,148.0       5,160.6       0.00         13,900.0       90.29       269.67       8,577.8       -382.0       -5,248.0       5,260.5       0.00         14,000.0       90.29       269.67       8,577.3       -382.6       -5,348.0       5,360.4       0.00         14,103.0       90.29       269.67       8,576.8       -383.2       -5,448.0       5,460.3       0.00         PPP3: 2050' FNL & 2640' FWL (1)         14,200.0       90.29       269.67       8,576.8       -383.8       -5,548.0       5,560.2       0.00         14,300.0       90.29       269.67       8,575.8       -384.3       -5,648.0       5,660.1       0.00         14,400.0       90.29       269.67       8,575.8       -384.9       -5,748.0       5,760.0	0.00	0.00
13,600.0       90.29       269.67       8,579.3       -380.3       -4,948.0       4,960.8       0.00         13,700.0       90.29       269.67       8,578.8       -380.8       -5,048.0       5,060.7       0.00         13,800.0       90.29       269.67       8,578.3       -381.4       -5,148.0       5,160.6       0.00         13,900.0       90.29       269.67       8,577.8       -382.0       -5,248.0       5,260.5       0.00         14,000.0       90.29       269.67       8,577.3       -382.6       -5,348.0       5,360.4       0.00         14,100.0       90.29       269.67       8,576.8       -383.2       -5,448.0       5,460.3       0.00         PPP3: 2050' FNL & 2640' FWL (1)         14,200.0       90.29       269.67       8,576.8       -383.8       -5,548.0       5,560.2       0.00         14,300.0       90.29       269.67       8,575.8       -384.3       -5,648.0       5,660.1       0.00         14,400.0       90.29       269.67       8,575.8       -384.3       -5,648.0       5,660.1       0.00         14,600.0       90.29       269.67       8,575.8       -384.9       -5,748.0       5,760.0	0.00	0.00
13,700.0       90.29       269.67       8,578.8       -380.8       -5,048.0       5,060.7       0.00         13,800.0       90.29       269.67       8,578.3       -381.4       -5,148.0       5,160.6       0.00         13,900.0       90.29       269.67       8,577.8       -382.0       -5,248.0       5,260.5       0.00         14,000.0       90.29       269.67       8,576.8       -383.2       -5,448.0       5,360.4       0.00         14,103.0       90.29       269.67       8,576.8       -383.2       -5,448.0       5,460.3       0.00         PPP3: 2050' FNL & 2640' FWL (1)         14,200.0       90.29       269.67       8,576.3       -383.8       -5,548.0       5,560.2       0.00         14,300.0       90.29       269.67       8,575.8       -384.3       -5,648.0       5,660.1       0.00         14,400.0       90.29       269.67       8,575.3       -384.9       -5,748.0       5,760.0       0.00         14,600.0       90.29       269.67       8,575.3       -384.9       -5,748.0       5,760.0       0.00         14,600.0       90.29       269.67       8,574.8       -385.5       -5,848.0       5,859.9		
13,800.0       90.29       269.67       8,578.3       -381.4       -5,148.0       5,160.6       0.00         13,900.0       90.29       269.67       8,577.8       -382.0       -5,248.0       5,260.5       0.00         14,000.0       90.29       269.67       8,577.3       -382.6       -5,348.0       5,360.4       0.00         14,100.0       90.29       269.67       8,576.8       -383.2       -5,448.0       5,460.3       0.00         PPP3: 2050' FNL & 2640' FWL (1)         14,200.0       90.29       269.67       8,576.3       -383.8       -5,548.0       5,560.2       0.00         14,300.0       90.29       269.67       8,575.8       -384.3       -5,648.0       5,660.1       0.00         14,400.0       90.29       269.67       8,575.3       -384.9       -5,748.0       5,760.0       0.00         14,500.0       90.29       269.67       8,574.8       -385.5       -5,848.0       5,859.9       0.00         14,600.0       90.29       269.67       8,574.8       -385.5       -5,848.0       5,959.8       0.00	0.00	0.00
13,900.0       90.29       269.67       8,577.8       -382.0       -5,248.0       5,260.5       0.00         14,000.0       90.29       269.67       8,577.3       -382.6       -5,348.0       5,360.4       0.00         14,100.0       90.29       269.67       8,576.8       -383.2       -5,448.0       5,460.3       0.00         14,103.0       90.29       269.67       8,576.8       -383.2       -5,451.0       5,463.3       0.00         PPP3: 2050' FNL & 2640' FWL (1)         14,200.0       90.29       269.67       8,576.3       -383.8       -5,548.0       5,560.2       0.00         14,300.0       90.29       269.67       8,575.8       -384.3       -5,648.0       5,660.1       0.00         14,400.0       90.29       269.67       8,575.3       -384.9       -5,748.0       5,760.0       0.00         14,500.0       90.29       269.67       8,574.8       -385.5       -5,848.0       5,859.9       0.00         14,600.0       90.29       269.67       8,574.8       -385.5       -5,848.0       5,959.8       0.00	0.00	0.00
14,000.0       90.29       269.67       8,577.3       -382.6       -5,348.0       5,360.4       0.00         14,100.0       90.29       269.67       8,576.8       -383.2       -5,448.0       5,460.3       0.00         14,103.0       90.29       269.67       8,576.8       -383.2       -5,451.0       5,463.3       0.00         PPP3: 2050' FNL & 2640' FWL (1)         14,200.0       90.29       269.67       8,576.3       -383.8       -5,548.0       5,560.2       0.00         14,300.0       90.29       269.67       8,575.8       -384.3       -5,648.0       5,660.1       0.00         14,400.0       90.29       269.67       8,575.3       -384.9       -5,748.0       5,760.0       0.00         14,500.0       90.29       269.67       8,574.8       -385.5       -5,848.0       5,859.9       0.00         14,600.0       90.29       269.67       8,574.3       -386.1       -5,948.0       5,959.8       0.00	0.00	0.00
14,000.0       90.29       269.67       8,577.3       -382.6       -5,348.0       5,360.4       0.00         14,100.0       90.29       269.67       8,576.8       -383.2       -5,448.0       5,460.3       0.00         14,103.0       90.29       269.67       8,576.8       -383.2       -5,451.0       5,463.3       0.00         PPP3: 2050' FNL & 2640' FWL (1)         14,200.0       90.29       269.67       8,576.3       -383.8       -5,548.0       5,560.2       0.00         14,300.0       90.29       269.67       8,575.8       -384.3       -5,648.0       5,660.1       0.00         14,400.0       90.29       269.67       8,575.3       -384.9       -5,748.0       5,760.0       0.00         14,500.0       90.29       269.67       8,574.8       -385.5       -5,848.0       5,859.9       0.00         14,600.0       90.29       269.67       8,574.3       -386.1       -5,948.0       5,959.8       0.00	0.00	0.00
14,100.0       90.29       269.67       8,576.8       -383.2       -5,448.0       5,460.3       0.00         14,103.0       90.29       269.67       8,576.8       -383.2       -5,451.0       5,463.3       0.00         PPP3: 2050' FNL & 2640' FWL (1)         14,200.0       90.29       269.67       8,576.3       -383.8       -5,548.0       5,560.2       0.00         14,300.0       90.29       269.67       8,575.8       -384.3       -5,648.0       5,660.1       0.00         14,400.0       90.29       269.67       8,575.3       -384.9       -5,748.0       5,760.0       0.00         14,500.0       90.29       269.67       8,574.8       -385.5       -5,848.0       5,859.9       0.00         14,600.0       90.29       269.67       8,574.3       -386.1       -5,948.0       5,959.8       0.00	0.00	0.00
14,103.0     90.29     269.67     8,576.8     -383.2     -5,451.0     5,463.3     0.00       PPP3: 2050' FNL & 2640' FWL (1)       14,200.0     90.29     269.67     8,576.3     -383.8     -5,548.0     5,560.2     0.00       14,300.0     90.29     269.67     8,575.8     -384.3     -5,648.0     5,660.1     0.00       14,400.0     90.29     269.67     8,575.3     -384.9     -5,748.0     5,760.0     0.00       14,500.0     90.29     269.67     8,574.8     -385.5     -5,848.0     5,859.9     0.00       14,600.0     90.29     269.67     8,574.3     -386.1     -5,948.0     5,959.8     0.00	0.00	0.00
PPP3: 2050' FNL & 2640' FWL (1)         14,200.0       90.29       269.67       8,576.3       -383.8       -5,548.0       5,560.2       0.00         14,300.0       90.29       269.67       8,575.8       -384.3       -5,648.0       5,660.1       0.00         14,400.0       90.29       269.67       8,575.3       -384.9       -5,748.0       5,760.0       0.00         14,500.0       90.29       269.67       8,574.8       -385.5       -5,848.0       5,859.9       0.00         14,600.0       90.29       269.67       8,574.3       -386.1       -5,948.0       5,959.8       0.00	0.00	0.00
14,200.0     90.29     269.67     8,576.3     -383.8     -5,548.0     5,560.2     0.00       14,300.0     90.29     269.67     8,575.8     -384.3     -5,648.0     5,660.1     0.00       14,400.0     90.29     269.67     8,575.3     -384.9     -5,748.0     5,760.0     0.00       14,500.0     90.29     269.67     8,574.8     -385.5     -5,848.0     5,859.9     0.00       14,600.0     90.29     269.67     8,574.3     -386.1     -5,948.0     5,959.8     0.00	0.00	0.00
14,300.0     90.29     269.67     8,575.8     -384.3     -5,648.0     5,660.1     0.00       14,400.0     90.29     269.67     8,575.3     -384.9     -5,748.0     5,760.0     0.00       14,500.0     90.29     269.67     8,574.8     -385.5     -5,848.0     5,859.9     0.00       14,600.0     90.29     269.67     8,574.3     -386.1     -5,948.0     5,959.8     0.00	0.00	0.00
14,400.0     90.29     269.67     8,575.3     -384.9     -5,748.0     5,760.0     0.00       14,500.0     90.29     269.67     8,574.8     -385.5     -5,848.0     5,859.9     0.00       14,600.0     90.29     269.67     8,574.3     -386.1     -5,948.0     5,959.8     0.00		
14,500.0     90.29     269.67     8,574.8     -385.5     -5,848.0     5,859.9     0.00       14,600.0     90.29     269.67     8,574.3     -386.1     -5,948.0     5,959.8     0.00	0.00	0.00
14,600.0 90.29 269.67 8,574.3 -386.1 -5,948.0 5,959.8 0.00	0.00	0.00
	0.00	0.00
	0.00	0.00
17,100.0 00.20 200.01 0,010.0 -000.1 -0,040.0 0,000.1 0.00	0.00	0.00
14,800.0 90.29 269.67 8,573.3 -387.3 -6,148.0 6,159.6 0.00	0.00	0.00

TVD Reference:

Database: Company: Project:

Site:

Hobbs

Mewbourne Oil Company Lea County, New Mexico NAD 83

Castle Black 6/1 B2FE Fed Com #1H

Well: Wellbore: Sec 6, T18S, R32E

BHL: 2050' FNL & 100' FWL, Sec 1 Design: Design #1

MD Reference: North Reference:

Local Co-ordinate Reference:

**Survey Calculation Method:** 

Site Castle Black 6/1 B2FE Fed Com #1H WELL @ 3859.0usft (Original Well Elev) WELL @ 3859.0usft (Original Well Elev)

Grid

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)
14,900.0	90.29	269.67	8,572.8	-387.8	-6,248.0	6,259.5	0.00	0.00	0.00
15,000.0	90.29	269.67	8,572.3	-388.4	-6,348.0	6,359.4	0.00	0.00	0.00
15,100.0	90.29	269.67	8,571.8	-389.0	-6,448.0	6,459.3	0.00	0.00	0.00
15,200.0	90.29	269.67	8,571.3	-389.6	-6,547.9	6,559.2	0.00	0.00	0.00
15,300.0	90.29	269.67	8,570.8	-390.2	-6,647.9	6,659.1	0.00	0.00	0.00
15,400.0	90.29	269.67	8,570.2	-390.8	-6,747.9	6,759.0	0.00	0.00	0.00
15,500.0	90.29	269.67	8,569.7	-391.3	-6,847.9	6,858.9	0.00	0.00	0.00
15,600.0	90.29	269.67	8,569.2	-391.9	-6,947.9	6,958.8	0.00	0.00	0.00
15,700.0	90.29	269.67	8,568.7	-392.5	-7,047.9	7,058.7	0.00	0.00	0.00
15,800.0	90.29	269.67	8,568.2	-393.1	-7,147.9	7,158.6	0.00	0.00	0.00
15,900.0	90.29	269.67	8,567.7	-393.7	-7,247.9	7,258.5	0.00	0.00	0.00
16,000.0	90.29	269.67	8,567.2	-394.3	-7,347.9	7,358.4	0.00	0.00	0.00
16,100.0	90.29	269.67	8,566.7	-394.8	-7,447.9	7,458.3	0.00	0.00	0.00
16,200.0	90.29	269.67	8,566.2	-395.4	-7,547.9	7,558.2	0.00	0.00	0.00
16,300.0	90.29	269.67	8,565.7	-396.0	-7,647.9	7,658.1	0.00	0.00	0.00
16,400.0	90.29	269.67	8,565.2	-396.6	-7,747.9	7,758.1	0.00	0.00	0.00
16,500.0	90.29	269.67	8,564.7	-397.2	-7,847.9	7,858.0	0.00	0.00	0.00
16,600.0	90.29	269.67	8,564.2	-397.8	-7,947.9	7,957.9	0.00	0.00	0.00
16,642.1	90.29	269.67	8,564.0	-398.0	-7.990.0	7.999.9	0.00	0.00	0.00

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
SHL: 1700' FNL & 2500' - plan hits target cente - Point	0.00 er	0.00	0.0	0.0	0.0	647,616.00	703,623.00	32.7792165	-103.8053002
KOP: 2050' FNL & 2260' - plan hits target cente - Point	0.00 er	0.00	8,125.0	-350.0	241.0	647,266.00	703,864.00	32.7782512	-103.8045218
BHL: 2050' FNL & 100' F - plan hits target cente - Point	0.00 er	0.00	8,564.0	-398.0	-7,990.0	647,218.00	695,633.00	32.7782295	-103.8313028
PPP3: 2050' FNL & 264( - plan hits target center - Point	0.00 er	0.00	8,576.8	-383.2	-5,451.0	647,232.81	698,172.00	32.7782368	-103.8230417
PPP2: 2050' FNL & 0' FI - plan hits target cente - Point	0.00 er	0.00	8,590.1	-367.8	-2,810.0	647,248.21	700,813.00	32.7782439	-103.8144488
LP/FTP: 2050' FNL & 25 - plan hits target cente - Point	0.00 er	0.00	8,603.0	-352.8	-239.4	647,263.20	703,383.60	32.7782501	-103.8060849

