

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

**IN THE MATTER OF THE HEARING CALLED  
BY THE OIL CONSERVATION DIVISION FOR  
THE PURPOSE OF CONSIDERING:**

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

**Case No. 16392**

**VERIFIED STATEMENT OF CY SHOOK**

Cy Shook, being duly sworn upon his oath, deposes and states:

1. I am a landman for Mewbourne Oil Company ("Mewbourne"), and have personal knowledge of the matters stated herein. I have worked as a petroleum landman for 12.5 years.

2. Pursuant to NMAC 19.15.4.12.A(1), the following information is submitted in support of the compulsory pooling application filed herein:

(a) The purpose of this application is to force pool working interest owners into the Bone Spring horizontal spacing unit described below, and in wells to be drilled in the unit.

(b) No opposition is expected because the interest owners being pooled have been contacted regarding the proposed well, but have simply refused to voluntarily commit their interests to the well.

(c) A plat outlining the unit being pooled is attached hereto as Attachment A. Mewbourne seeks an order approving a 240-acre horizontal spacing unit in the Bone Spring formation comprised of W/2E/2 of Section 16 and the W/2SE/4 Section 9, Township 20 South, Range 35 East, NMPM. The unit will be dedicated to the Sand Chute 9/16 B2JO Fed Com #1H, a horizontal well with a surface location in Unit J in Section 9 and a final take point in Unit O of Section 16.

(d) Devon Energy Production Company LP was timely notified of the application for compulsory pooling. Devon Energy Production Company LP subsequently sold their interest to Caza Petroleum LLC. Caza Petroleum LLC is aware of the referenced well proposals.

EXHIBIT

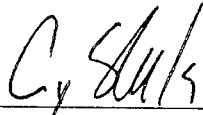
1

- (e) The parties being pooled and their interests are set forth in Attachment B. Their current and correct addresses are also set forth.
- (f) Attachment C contains a summary of contacts with the interest owners, together with copies of the proposal letters sent to them.
- (g) Mewbourne has made a good faith effort to obtain the voluntary joinder of the working interest owners in the proposed well.
- (h) Mewbourne has the right to pool the overriding royalty owners in the well unit.
- (i) Attachment D is the Authorization for Expenditure for the proposed well. The estimated cost of the well set forth therein is fair and reasonable, and is comparable to the costs of other wells of similar depth and length drilled in this area Lea County.
- (j) Mewbourne requests overhead and administrative rates of \$8000/month for a drilling well and \$800/month for a producing well. These rates are fair, and comparable to the rates charged by other operators for wells of this type in this portion of Lea County. Mewbourne requests that these rates be adjusted periodically as provided in the standard COPAS. Accounting Procedure.
- (k) Mewbourne requests that the maximum cost plus 200% risk charge be assessed against non-consenting working interest owners.
- (l) Applicant requests that it be designated operator of the well.
- (m) The attachments to this affidavit were prepared by me or under my supervision, or compiled from company business records.
- (n) The granting of this application is in the interests of conservation and the prevention of waste.

VERIFICATION

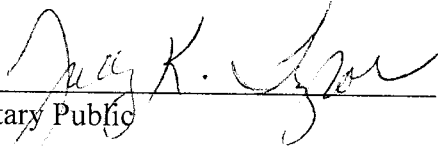
STATE OF TEXAS                    )  
  ) ss.  
COUNTY OF MIDLAND            )

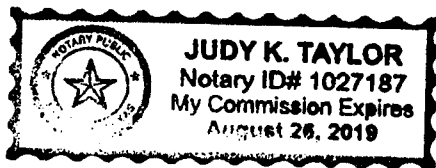
Cy Shook, being duly sworn upon his oath, deposes and states that: He is a landman for Mewbourne Oil Company; he is authorized to make this verification on its behalf; he has read the foregoing statement, and knows the contents thereof; and the same is true and correct to the best of his knowledge, information,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

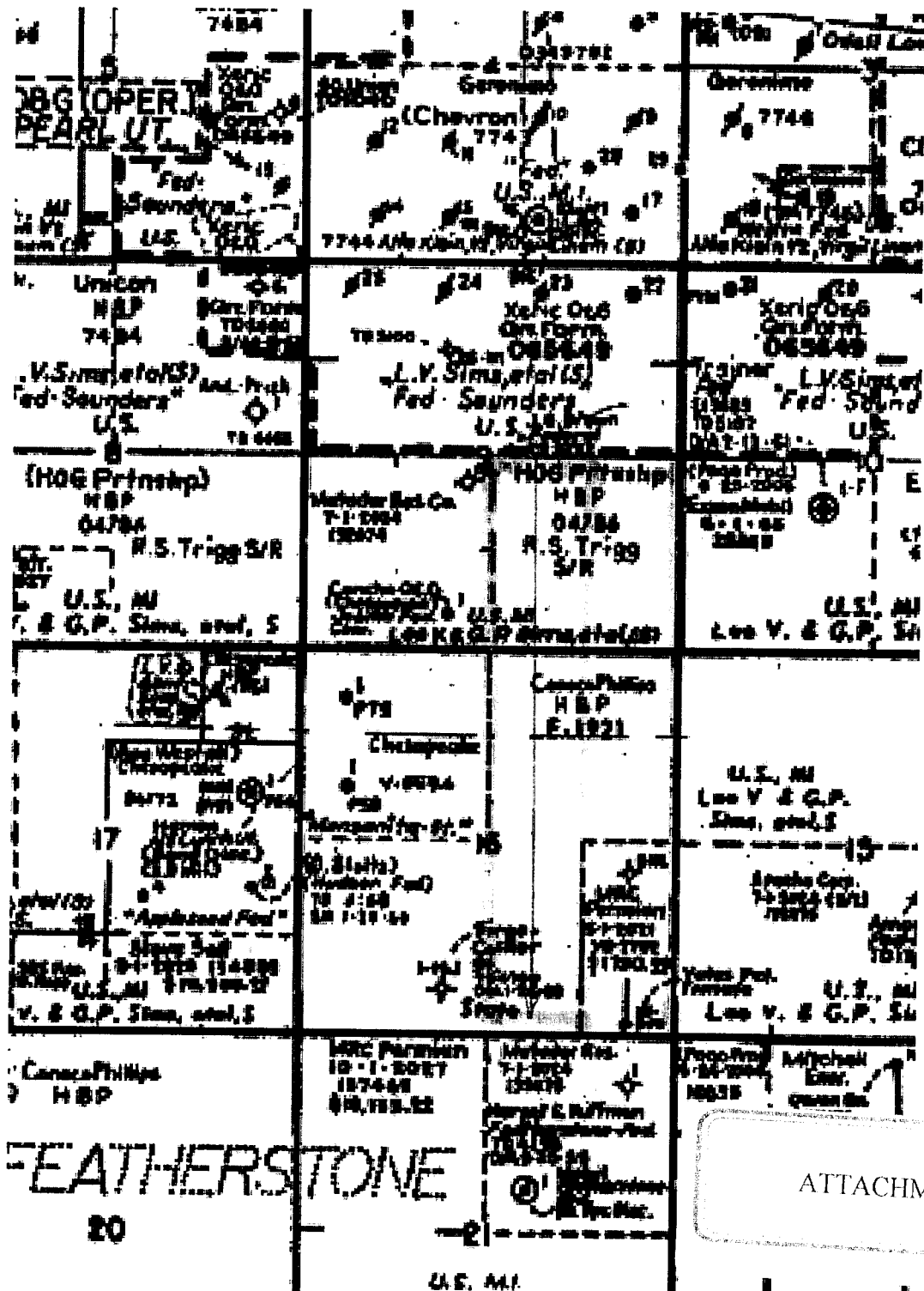
  
\_\_\_\_\_  
Cy Shook

SUBSCRIBED AND SWORN TO before me this 4th day of September, 2018 by Cy Shook.

My Commission Expires: 8-26-19

  
\_\_\_\_\_  
Notary Public



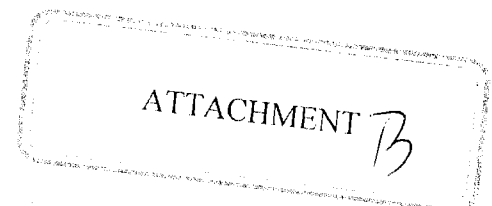


**TRACT OWNERHSIP**  
**Sand Chute 9/16 B2JO Fed Com #1H**  
**W/2E/2 of Section 16,**  
**W/2SE/4 of Section 9,**  
**Township 20 South, Range 35 East**  
**Lea County, New Mexico**

**W/2E/2 of Section 16,**  
**W/2SE/4 of Section 9,**  
**Bone Spring Formation:**

	<u>% Leasehold Interest</u>
Mewbourne Oil Company 500 West Texas, Ste. 1020 Midland, Texas 79701	16.666667%
 *ConocoPhillips Company 600 N. Dairy Ashford Houston, Texas 77079 Attn: Permian Land Manager	 58.36%
 *Caza Petroleum LLC Four Greenspoint Place 16945 Northchase Drive, Suite 1430 Houston, Texas 77060	 24.973333%
 <hr style="width: 20%; margin-left: 0;"/> Total	 100.00000%

**\* Total interest being pooled: 83.33333%**



Summary of Communication with ConocoPhillips Company ("COPC")

Case # 16392

Compulsory Pooling Application

MOC's Sand Chute 9/16 B2JO Fed Com #1H

API #Pending

2435' FNL & 2030' FEL (SL) (Sec. 9)

330' FSL & 1980' FEL (BHL) (Sec. 16)

Sections 4 and 16, T20S, R35E

Lea County, New Mexico

- 7/19/2018: Emailed Joey Moppert at COPC with Well Proposal and Farmout Offer
- 7/20/2018: Emailed Joey Moppert at COPC answered questions.
- 7/20/2018: (Approximate Date) Phone Call with Joey Moppert about referenced well proposal; Discussed terms that may be agreeable to COPC
- 7/30/2018: Emailed Judy Webb regarding proposed unit for referenced well.
- 8/1/2018: Emailed Judy Webb at COPC to answer questions regarding MOC's Farmout Offer.
- 8/29/2018: Received Email from Laura Hanagarne about terms of potential JOA.

ATTACHMENT C

Summary of Communication with Devon Energy Production Company, LP/Caza Petroleum, LLC

Case # 16392

Compulsory Pooling Application

MOC's Sand Chute 9/16 B2JO Fed Com #1H

API #Pending

2435' FNL & 2030' FEL (SL) (Sec. 9)

330' FSL & 1980' FEL (BHL) (Sec. 16)

Sections 4 and 16, T20S, R35E

Lea County, New Mexico

3/26/2018: Emailed Cari Allen at Devon with Farmout Offer for Devon's interest in Section 16.

4/2/2018: Emailed Cari Allen at Devon about larger acreage trade that included Devon's interest in the referenced well.

4/3/2018: Continued Emailing Cari Allen about larger acreage trade.

4/4/2018: Mailed Well Proposal via certified mail.

6/5/2018: Emailed Cari Allen at Devon with a new acreage trade offer for Devon's interest in Section 16.

6/11/2018: Received email from Cari Allen at Devon declining offer sent 6/5/2018

7/23/2018: Received email from Cari Allen stating Devon sold their interest in Section 16 to Caza Petroleum LLC

7/23/2018: Emailed Rich Albro at Caza acreage trade proposal.

7/30/2018: Emailed Rich Albro at Caza about acreage trade update.

8/20/2018: Received email from Rich Albro at Caza stating they are looking at various scenarios

# MEWBOURNE OIL COMPANY

500 W. TEXAS, SUITE 1020  
MIDLAND, TEXAS 79701

(432) 682-3715  
FAX (432) 685-4170

April 4, 2018

Via Certified Mail

Devon Energy Production Company, LP  
Attn: Cari Allen  
333 W. Sheridan Ave.  
Oklahoma City, OK 73102

Re: Well Proposal  
Sand Chute 9/16 B2JO Fed Com #1H  
Section 9: W2SE4  
Section 16: W2E2  
T-20-S, R-35-E, Lea County, New Mexico

Dear Owner:

Mewbourne Oil Company ("Mewbourne") hereby proposes to drill the referenced horizontal Bone Spring well. The Sand Chute 9/16 B2JO Fed Com #1H will be at a surface location 2435' FNL & 2030' FEL in Section 9 and a bottom hole location approximately 330' FSL & 1980' FEL in Section 16, T-20-S, R-35-E, Lea County, New Mexico. We anticipate drilling to an approximate vertical depth of 10,610' and an approximate measured depth of 18,250'. The estimated cost to casing point for this well is \$3,437,400 and the estimated cost of a producing well is \$9,367,100. These costs are more fully detailed in the AFE enclosed herewith. If successful, the project area for this well will be comprised of the W2SE4 of Section 9 and the W2E2 of Section 16.

To facilitate the drilling of this well and the development of the S2 of Section 9 and Section 16, Mewbourne proposes forming a working interest unit by signing an Operating Agreement with a Contract Area comprised of the S2 of Section 9 and Section 16. If you elect to execute an Operating Agreement under the terms, you would have an approximately 7.26833% interest within the Contract Area. If you wish to form this working interest unit, please advise and I will send an Operating Agreement for your review and execution.

If you do not wish to participate in the well MOC is interested in discussing a Farmout of your interest.

Enclosed are duplicate originals of Mewbourne's AFE for the well. To make your election to participate in the proposed well, properly execute and return the AFE. You will also need to provide your "Well Information" requirements. As a reminder,



Mewbourne's AFEs provide all participants the opportunity to opt out of the "Extra Expense Well Control Insurance" that Mewbourne purchases for each well it drills. If you do opt out, you must provide evidence that you have adequate "Well Control Insurance".

Feel free to contact me if you have any questions. I can be reached by phone at (432) 682-3715 or via email at [cshook@mewbourne.com](mailto:cshook@mewbourne.com).

Sincerely,

**MEWBOURNE OIL COMPANY**

A handwritten signature in black ink, appearing to read "Cy Shook", written in a cursive style.

Cy Shook  
Landman

# MEWBOURNE OIL COMPANY

500 W. TEXAS, SUITE 1020  
MIDLAND, TEXAS 79701

(432) 682-3715  
FAX (432) 685-4170

July 18, 2018

Via Certified Mail

ConocoPhillips Company  
600. N. Dairy Ashford  
Houston, Texas 77252  
Attn: Permian Land Manager

Re: Well Proposal  
Sand Chute 9/16 B2JO Fed Com #1H  
Section 9: W2SE4  
Section 16: W2E2  
T-20-S, R-35-E, Lea County, New Mexico

Dear Owner:

Mewbourne Oil Company ("Mewbourne") hereby proposes to drill the referenced horizontal Bone Spring well. The Sand Chute 9/16 B2JO Fed Com #1H will be at a surface location 2435' FNL & 2030' FEL in Section 9 and a bottom hole location approximately 330' FSL & 1980' FEL in Section 16, T-20-S, R-35-E, Lea County, New Mexico. We anticipate drilling to an approximate vertical depth of 10,610' and an approximate measured depth of 18,250'. The estimated cost to casing point for this well is \$3,437,400 and the estimated cost of a producing well is \$9,367,100. These costs are more fully detailed in the AFE enclosed herewith. If successful, the project area for this well will be comprised of the W2SE4 of Section 9 and the W2E2 of Section 16.

To facilitate the drilling of this well and the development of the S2 of Section 9 and Section 16, Mewbourne proposes forming a working interest unit by signing an Operating Agreement with a Contract Area comprised of the S2 of Section 9 and Section 16. If you elect to execute an Operating Agreement under the terms, you would have an approximately 36.475% interest within the Contract Area. If you wish to form this working interest unit, please advise and I will send an Operating Agreement for your review and execution.

If you do not wish to participate in the well MOC is interested in discussing a Farmout of your interest.

Enclosed are duplicate originals of Mewbourne's AFE for the well. To make your election to participate in the proposed well, properly execute and return the AFE. You will also need to provide your "Well Information" requirements. As a reminder,

Mewbourne's AFEs provide all participants the opportunity to opt out of the "Extra Expense Well Control Insurance" that Mewbourne purchases for each well it drills. If you do opt out, you must provide evidence that you have adequate "Well Control Insurance".

Feel free to contact me if you have any questions. I can be reached by phone at (432) 682-3715 or via email at [cshook@mewbourne.com](mailto:cshook@mewbourne.com).

Sincerely,

**MEWBOURNE OIL COMPANY**

A handwritten signature in black ink, appearing to read "Cy Shook", written over the printed name.

Cy Shook  
Landman

# MEWBORNE OIL COMPANY

## AUTHORIZATION FOR EXPENDITURE

Well Name: Sand Chute 9/16 B2JO Fed Com #1H Prospect: Bone Spring  
 Location: SL: 2435' FNL & 2030' FEL (9); BHL: 330' FSL & 1980' FEL (16) County: Lea ST: NM  
 Sec. 9 BIK:      Survey:      TWP: 20S RNG: 35E Prop. TVD: 10610 TMD: 18250

INTANGIBLE COSTS 0180		CODE	TCP	CODE	CC
Regulatory Permits & Surveys		0180-0100	\$20,000	0180-0200	
Location / Road / Site / Preparation		0180-0105	\$60,000	0180-0205	\$300,000
Location / Restoration		0180-0106	\$200,000	0180-0206	\$30,000
Daywork / Turnkey / Footage Drilling 30 days drlg / 4 days comp @ \$20,000/d		0180-0110	\$641,000	0180-0210	\$85,400
Fuel 1500 gal/day @ 2.63/gal		0180-0114	\$145,800	0180-0214	\$300,000
Mud, Chemical & Additives		0180-0120	\$225,000	0180-0220	
Horizontal Drillout Services				0180-0222	\$160,000
Cementing		0180-0125	\$110,000	0180-0225	\$30,000
Logging & Wireline Services		0180-0130	\$2,000	0180-0230	\$290,000
Casing / Tubing / Snubbing Service		0180-0134	\$20,000	0180-0234	\$80,000
Mud Logging		0180-0137	\$20,000		
Stimulation 37 Stg 14.5 MM gal / 14.5 MM lb				0180-0241	\$2,230,000
Stimulation Rentals & Other				0180-0242	\$150,000
Water & Other		0180-0145	\$40,000	0180-0245	\$600,000
Bits		0180-0148	\$81,000	0180-0248	\$4,000
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	\$120,000		
Transportation		0180-0165	\$20,000	0180-0265	\$20,000
Welding Services		0180-0168	\$5,000	0180-0268	\$15,000
Contract Services & Supervision		0180-0170	\$49,500	0180-0270	\$30,000
Directional Services Includes Vertical Control		0180-0175	\$273,000		
Equipment Rental		0180-0180	\$256,900	0180-0280	\$30,000
Well / Lease Legal		0180-0184	\$5,000	0180-0284	
Well / Lease Insurance		0180-0185	\$5,600	0180-0285	
Intangible Supplies		0180-0188	\$8,000	0180-0288	\$10,000
Damages		0180-0190	\$20,000	0180-0290	
ROW & Easements		0180-0192		0180-0292	\$1,000
Pipeline Interconnect				0180-0293	
Company Supervision		0180-0195	\$158,400	0180-0295	\$96,000
Overhead Fixed Rate		0180-0196	\$10,000	0180-0296	\$20,000
Well Abandonment		0180-0198		0180-0298	
Contingencies 10% (TCP) 10% (CC)		0180-0199	\$255,100	0180-0299	\$453,700
TOTAL			\$2,806,300		\$4,990,600

TANGIBLE COSTS 0181		CODE	TCP	CODE	CC
Casing (19.1" - 30")		0181-0793			
Casing (10.1" - 19.0") 2080' - 13 3/8" 54.5# J-55 ST&C @ \$35.90/ft		0181-0794	\$79,800		
Casing (8.1" - 10.0") 6400' - 9 5/8" 40# N-80 LT&C @ \$27.61/ft		0181-0795	\$188,800		
Casing (6.1" - 8.0") 10875' - 7" 29# P-110 LT&C @ \$27.76/ft		0181-0796	\$322,500		
Casing (4.1" - 6.0") 8090' - 4 1/2" 13.5# P-110 BPN @ \$13.66/ft				0181-0797	\$118,100
Tubing 10055' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.74/ft				0181-0798	\$51,000
Drilling Head		0181-0860	\$40,000		
Tubing Head & Upper Section				0181-0870	\$30,000
Horizontal Completion Tools Completion Liner Hanger				0181-0871	\$70,000
Sucker Rods				0181-0875	
Subsurface Equipment				0181-0880	
Artificial Lift Systems Gas Lift Valves				0181-0884	\$15,000
Pumping Unit				0181-0885	
Surface Pumps & Prime Movers 1/2 VRU/SWD Pump/Circ Pump				0181-0886	\$35,000
Tanks - Oil 3 - 750 bbl				0181-0890	\$55,000
Tanks - Water 3 - 750 bbl				0181-0891	\$60,000
Separation / Treating Equipment 30"x10"x1k# 3 ph/36"x15"x1k# Hor 3ph/Gun bbl				0181-0895	\$45,000
Heater Treaters, Line Heaters 8'x20'x75# HT				0181-0897	\$23,000
Metering Equipment				0181-0898	\$14,000
Line Pipe & Valves - Gathering 0.5 Mile Gas & 6.3 Mile 4" Wtr				0181-0900	\$185,000
Fittings / Valves & Accessories				0181-0906	\$60,000
Cathodic Protection				0181-0908	\$8,000
Electrical Installation				0181-0909	\$50,000
Equipment Installation				0181-0910	\$35,000
Pipeline Construction 0.5 Mile Steel & 6.3 Mile Poly				0181-0920	\$85,000
TOTAL			\$631,100		\$939,100
SUBTOTAL			\$3,437,400		\$5,929,700

**TOTAL WELL COST \$9,367,100**

Extra Expense Insurance

- ☐ I elect to be covered by Operator's Extra Expense Insurance and pay my proportionate share of the premium.  
 Operator has secured Extra Expense Insurance covering costs of well control, clean up and redrilling as estimated in Line Item 0180-0185.
- ☐ I elect to purchase my own well control insurance policy.

If neither box is checked above, non-operating working interest owner elects to be covered by Operator's well control insurance.

Prepared by: B. Talloy

Date: 3/14/2018

Company Approval: M. Whitte

Date: 3/14/2018

Joint Owner Interest: 36.47500000% Amount: \$3,416,649.73

Joint Owner Name: ConocoPhillips Company

Signature: \_\_\_\_\_

ATTACHMENT D

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

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

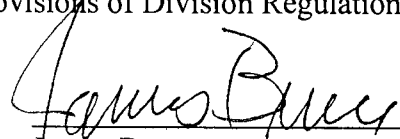
Case No. 16392

AFFIDAVIT OF NOTICE

COUNTY OF SANTA FE    )  
  ) ss.  
STATE OF NEW MEXICO    )

James Bruce, being duly sworn upon his oath, deposes and states:

1.     I am over the age of 18, and have personal knowledge of the matters stated herein.
2.     I am an attorney for Mewbourne Oil Company.
3.     Mewbourne Oil Company has conducted a good faith, diligent effort to find the names and correct addresses of the interest owners entitled to receive notice of the application filed herein.
4.     Notice of the application was provided to the interest owners, at their correct addresses, by certified mail. Copies of the notice letter and certified return receipts are attached hereto as Attachment A.
5.     Applicant has complied with the notice provisions of Division Regulations.

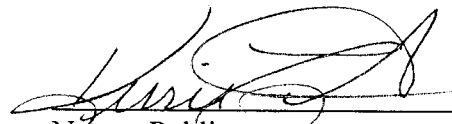
  
James Bruce

SUBSCRIBED AND SWORN TO before me this 5<sup>th</sup> day of September, 2018 by  
James Bruce.

My Commission Expires 10-22-18



OFFICIAL SEAL  
**KERRIE C. ALLEN**  
Notary Public  
State of New Mexico

  
Notary Public

ATTACHMENT 2

**JAMES BRUCE**  
ATTORNEY AT LAW

POST OFFICE BOX 1056  
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213  
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)  
(505) 660-6612 (Cell)  
(505) 982-2151 (Fax)

[jamesbruce@aol.com](mailto:jamesbruce@aol.com)

August 13, 2018

CERTIFIED MAIL

To: Persons on Exhibit A

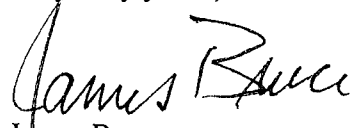
Ladies and gentlemen:

Enclosed is a copy of an application for compulsory pooling, filed with the New Mexico Oil Conservation Division by Mewbourne Oil Company, regarding a Bone Spring well in the W/2E/2 of Section 16 and the W/2SE/4 of Section 9, Township 20 South, Range 35 East, N.M.P.M., Lea County, New Mexico.

This matter is set for hearing at 8:15 a.m. on Thursday, September 6, 2018, in Porter Hall at the Division's offices at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from contesting the matter at a later date.

A party appearing in a Division case is required by Division Regulations to file a Pre-Hearing Statement no later than Thursday, August 30, 2018. This statement must be filed with the Division's Santa Fe office at the above address, and should include: The names of the party and its attorney; a concise statement of the case; the names of the witnesses the party will call to testify at the hearing; the approximate time the party will need to present its case; and identification of any procedural matters that need to be resolved prior to the hearing. The Pre-Hearing Statement must also be provided to the undersigned.

Very truly yours,

  
James Bruce

Attorney for Mewbourne Oil Company


ATTACHMENT 

Exhibit A

ConocoPhillips Company  
600 North Dairy Ashford  
Houston, Texas 77079

Devon Energy Production Company, L.P.  
333 West Sheridan  
Oklahoma City, Oklahoma 73102

2502 8872 0000 09ED 8702

5402 8872 0000 0950 8702

PS Form 3811, July 2015 PSN 7530-02-000-9053



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

**APPLICATION OF MEWBOURNE OIL COMPANY  
FOR A NON-STANDARD OIL SPACING AND  
PRORATION UNIT AND COMPULSORY POOLING,  
LEA COUNTY, NEW MEXICO.**

**Case No. 16392**

**VERIFIED STATEMENT OF JORDAN CARRELL**

COUNTY OF MIDLAND                    )  
  ) ss.  
STATE OF TEXAS                        )

Jordan Carrell, being duly sworn upon his oath, deposes and states:

1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am a geologist for Mewbourne Oil Company ("Mewbourne"), and I am familiar with the geological matters involved in this case. I have been qualified by the Division as an expert petroleum geologist.
3. The following geological plats are attached hereto:
  - (a) Attachment A is a structure map of the Bone Spring formation, on the base of the Second Bone Spring Sand. It shows that structure dips gently to the southeast. It also shows a line of cross-section.
  - (b) Attachment B is a gross sand isopach of the Lower Second Bone Spring Sand, the test zone for the proposed Sand Chute 9/16 B2JO Fed. Com. Well No. 1H. It shows that the sand across the well unit has a uniform thickness of approximately 90 feet.
  - (c) Attachment C is a north-south cross section. The well logs on the cross-section give a representative sample of the Bone Spring formation in this area. The target zone for the well is the Lower Second Bone Spring Sand, and that zone is continuous across the well unit.
4. I conclude from the maps that:
  - (a) The horizontal spacing unit is justified from a geologic standpoint.
  - (b) Each quarter-quarter section in the unit will contribute more or less equally to production.

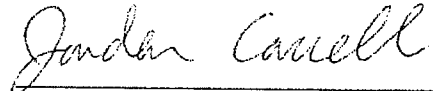
EXHIBIT

3

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

5. Attachment D contains information from other wells drilled in this area. There are few horizontal Bone Spring wells in this area. However, the preference is for standup units, and the few completed wells in the area (recent completions) are apparently commercial.


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

  
\_\_\_\_\_  
Jordan Carrell

VERIFICATION

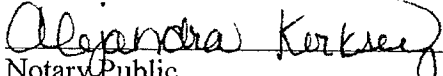
STATE OF TEXAS                    )  
  ) ss.  
COUNTY OF MIDLAND            )

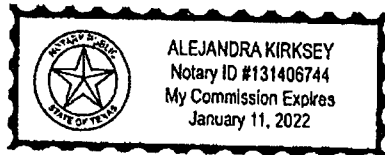
Jordan Carrell, being duly sworn upon his oath, deposes and states that: He is a geologist for Mewbourne Oil Company; he is authorized to make this verification on its behalf; he has read the foregoing statement, and knows the contents thereof; and the same is true and correct to the best of his knowledge,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

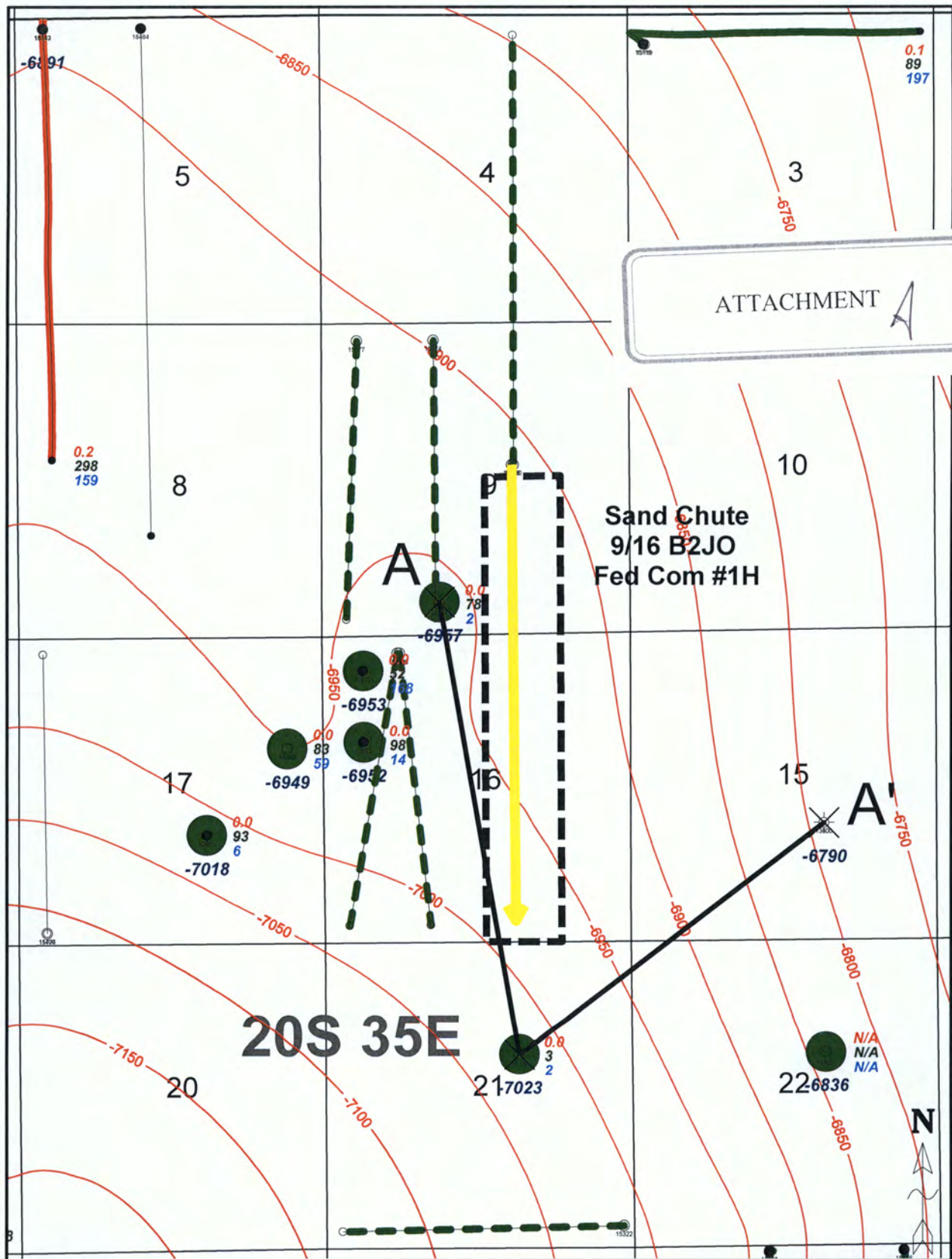
  
\_\_\_\_\_  
Jordan Carrell

SUBSCRIBED AND SWORN TO before me this 31<sup>st</sup> day of August, 2018 by Jordan Carrell.

My Commission Expires: Jan. 11, 2022

  
\_\_\_\_\_  
Notary Public





ATTACHMENT A

Sand Chute  
9/16 B2JO  
Fed Com #1H

20S 35E

Wells shallower than  
7000' are filtered out

BSPG Horizontal Color Code

- 2nd BSPG Sd Well
- - - 2nd BSPG Sd Permit
- 3rd BSPG SD Well

BSPG Production

- Cum BCF
- Cum MBO
- Cum MBW

Depth of 2nd BSPG Sd  
Base (subsea)

BSPG Vertical Color Code

- 2nd BSPG Well

2500 0 2500 ft  
1 inch = 2500 feet



**Mewbourne Oil Company**

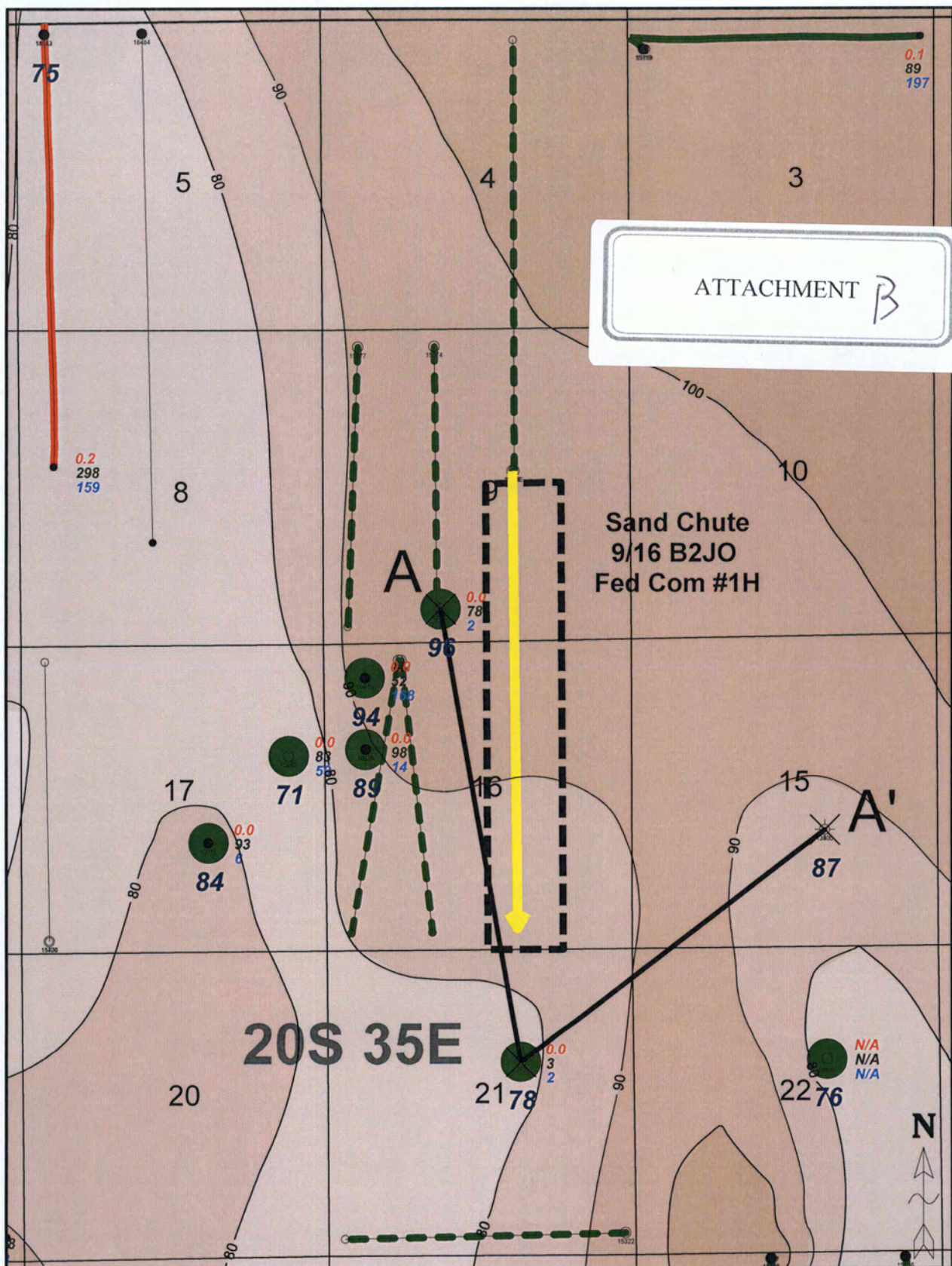
Sand Chute 9/16 B2JO Fed Com #1H  
Base of 2nd BSPG Sand Structure Contour Map  
C.I. = 50'  
Sections 9 & 16, 20S/35E, Lea County, New Mexico

Author:  
J. Carrell

Scale:  
1" = 2500'

Date:  
29 August, 2018





ATTACHMENT B

Sand Chute  
9/16 B2JO  
Fed Com #1H

20S 35E

Wells shallower than  
7000' are filtered out

BSPG Production  
 ● Cum BCF  
 ● Cum MBO  
 TD Cum MBW

Gross Lower 2nd  
BSPG Sand (ft)

BSPG Horizontal Color Code  
 — 2nd BSPG Sd Well  
 - - - 2nd BSPG Sd Permit  
 — 3rd BSPG SD Well

BSPG Vertical Color Code  
 ● 2nd BSPG Well

2500 1 inch<sub>0</sub> = 2500 feet 2500 ft

<b>Mewbourne Oil Company</b>		
Sand Chute 9/16 B2JO Fed Com #1H Lower 2nd BSPG Gross Sand Isopach Map Exhibit C.I. = 10' Sections 9 & 16, 20S/35E, Lea County, New Mexico		
Author: J. Carrell	Scale: 1" = 2500'	Date: 29 August, 2018



300253597300

CHESAPEAKE OPERATING INCORPORATED  
JABALKA FEDERAL COM 1  
S2 SE SW  
TWP: 20 S - Range: 35 E - Sec. 9  
Reference=KB  
Datum=3703.00

7883 ft

300252739500

MOBIL PRODUCING TEXAS & NEW MEXICO I  
FEATHERSTONE FEDERAL 1  
1980 FNU/1980 FEL  
TWP: 20 S - Range: 35 E - Sec. 21  
Reference=KB  
Datum=3738.00

6594 ft

300252723000

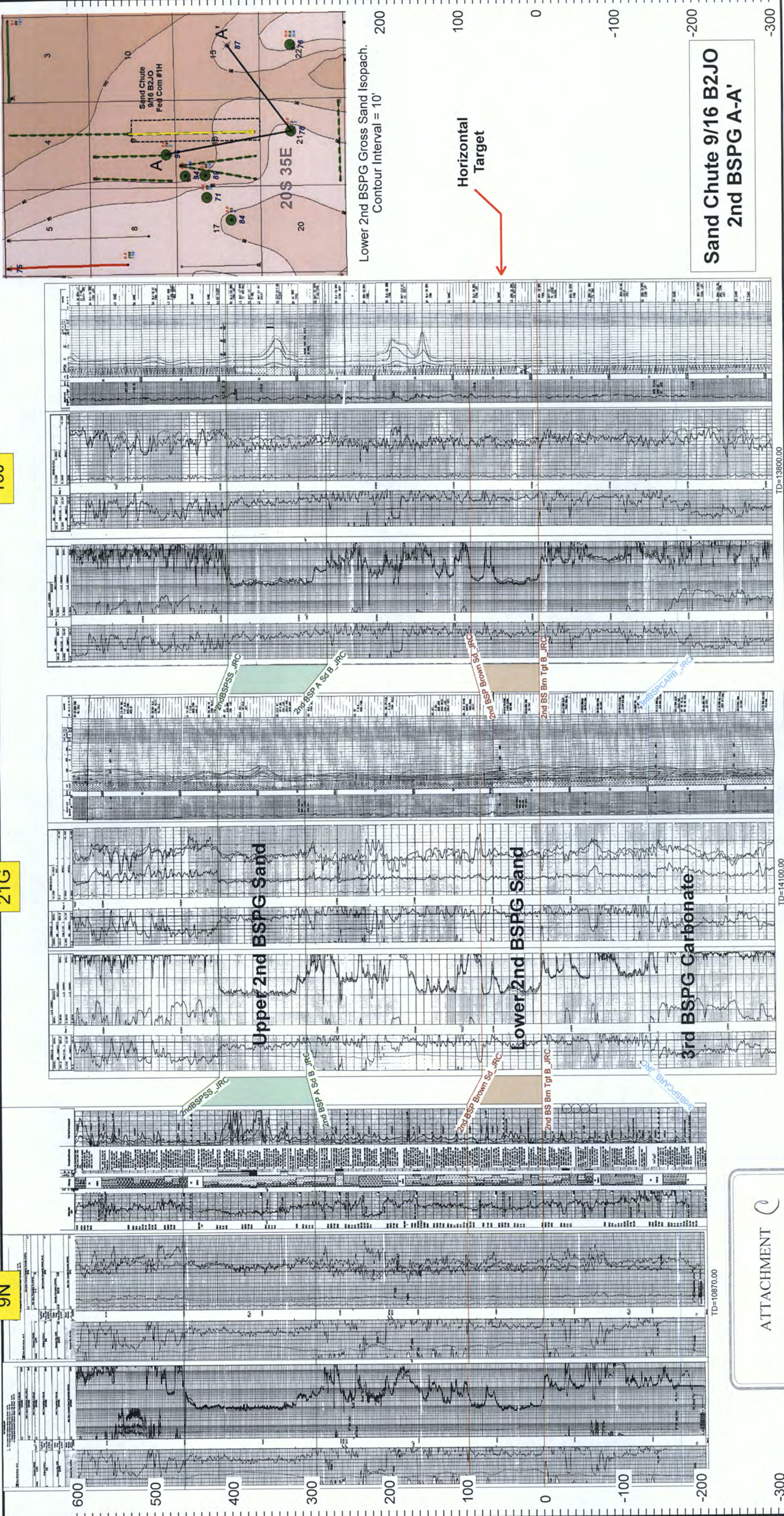
AMOCO PROD CO  
FEDERAL BT GAS CO 1  
1980 FSU/1980 FEL  
TWP: 20 S - Range: 35 E - Sec. 15  
Reference=KB  
Datum=3717.00

A'

9N

21G

15J



Lower 2nd BSPG Gross Sand Isopach.  
Contour Interval = 10'

Horizontal  
Target

Sand Chute 9/16 B2JO  
2nd BSPG A-A'

ATTACHMENT C

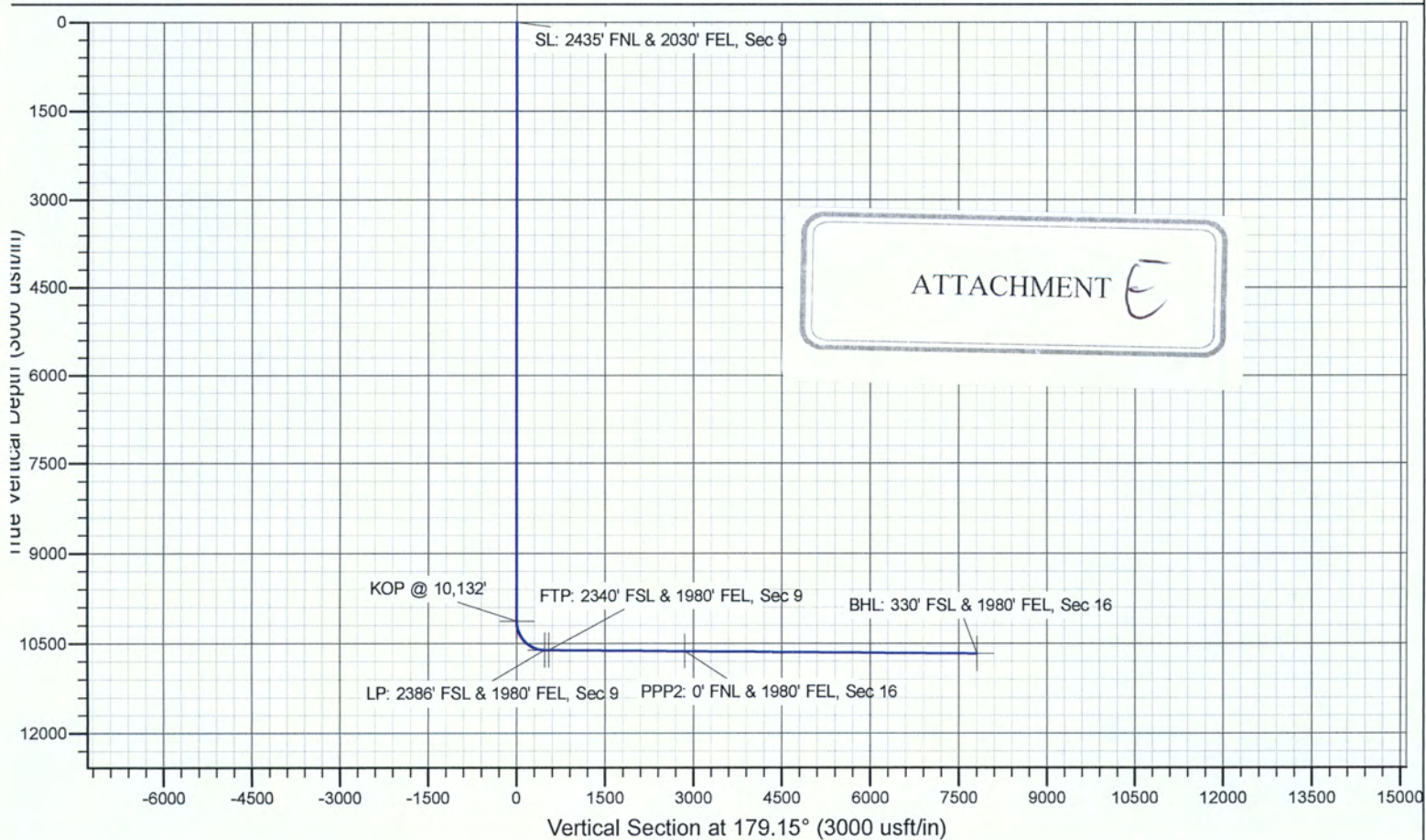
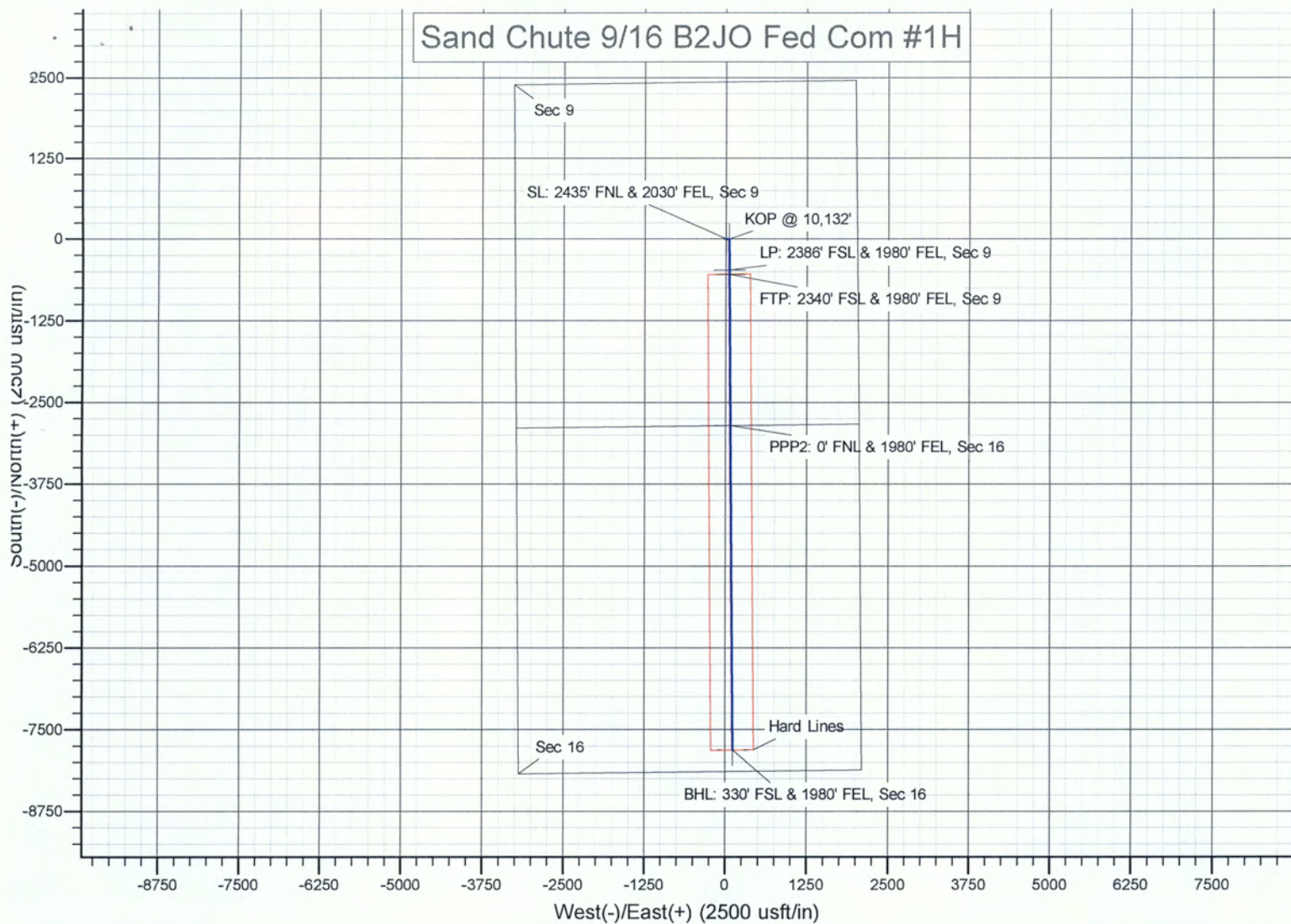


Sand Chute Area 2nd Bone Spring Sand Horizontal Production Data Table									
Well Name	Operator	API	Location	Comp Date	Cum Oil (MBO)	Cum Gas (BCF)	Cum Water (MBW)	NS/EW	HZ Target
CONINE 3 20 35 RN #121H	MATADOR PRODUCTION CO	3002542719	3DA/20S/35E	1/19/2016	89	0.1	197	EW	Lower 2nd BSPG Sd
TAYBERRIES 13 STATE #501H	EOG RESOURCES INC	3002542731	13BO/20S/35E	7/9/2016	114	0.1	103	NS	Lower 2nd BSPG Sd
MANGO BRM STATE #1H	EOG Y RESOURCES INC	3002540517	27CN/20S/35E	10/23/2014	182	0.2	95	NS	Lower 2nd BSPG Sd
TANGERINE BRT STATE #1H	EOG Y RESOURCES INC	3002540518	27AP/20S/35E	6/14/2015	75	0.1	61	NS	Lower 2nd BSPG Sd
IGLOO 19 STATE #4H	CAZA OPERATING LLC	3002542358	19OB/20S/35E	11/7/2016	125	0.1	100	NS	Lower 2nd BSPG Sd
IGLOO 19 STATE #1H	CAZA OPERATING LLC	3002542356	19PA/20S/35E	3/15/2017	92	0	78	NS	Lower 2nd BSPG Sd
LEA UNIT #40H	LEGACY RESERVES	3002543093	24H13A/20S/34E	7/1/2017	80	0.1	184	NS	Lower 2nd BSPG Sd
LEA UNIT #49H	LEGACY RESERVES	3002544410	12BO/20S/34E	4/20/2018	19	0.0	50	NS	Lower 2nd BSPG Sd
PERLA NEGRA FED COM #7H	XTO ENERGY INC	3002543812	24OB/19S/34E	2/1/2018	68	0.1	44	NS	Lower 2nd BSPG Sd

ATTACHMENT



# Sand Chute 9/16 B2JO Fed Com #1H





# **Mewbourne Oil Company**

**Lea County, New Mexico NAD 83**

**Sand Chute 9/16 B2JO Fed Com #1H**

**Sec 9, T20S, R35E**

**SL: 2435' FNL & 2030' FEL, Sec 9**

**BHL: 330' FSL & 1980' FEL, Sec 16**

**Plan: Design #1**

## **Standard Planning Report**

**01 May, 2018**

# Planning Report

**Database:** Hobbs  
**Company:** Mewbourne Oil Company  
**Project:** Lea County, New Mexico NAD 83  
**Site:** Sand Chute 9/16 B2JO Fed Com #1H  
**Well:** Sec 9, T20S, R35E  
**Wellbore:** BHL: 330' FSL & 1980' FEL, Sec 16  
**Design:** Design #1

**Local Co-ordinate Reference:** Site Sand Chute 9/16 B2JO Fed Com #1H  
**TVD Reference:** WELL @ 3719.0usft (Original Well Elev)  
**MD Reference:** WELL @ 3719.0usft (Original Well Elev)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

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

**Site** Sand Chute 9/16 B2JO Fed Com #1H  
**Site Position:** Northing: 578,860.00 usft Latitude: 32.5883066  
**From:** Map Easting: 810,222.00 usft Longitude: -103.4603245  
**Position Uncertainty:** 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.47 °

**Well** Sec 9, T20S, R35E  
**Well Position** +N/-S 0.0 usft Northing: 578,860.00 usft Latitude: 32.5883066  
**Well Position** +E/-W 0.0 usft Easting: 810,222.00 usft Longitude: -103.4603245  
**Position Uncertainty** 0.0 usft Wellhead Elevation: 3,719.0 usft Ground Level: 3,692.0 usft

**Wellbore** BHL: 330' FSL & 1980' FEL, Sec 16  

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/1/2018	6.70	60.36	48,155

**Design** Design #1  
**Audit Notes:**  
**Version:** Phase: PROTOTYPE Tie On Depth: 0.0  
**Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction  
 (usft) (usft) (usft) (°)  
 0.0 0.0 0.0 179.15

**Plan Sections**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,450.0	0.00	0.00	6,450.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,502.6	0.79	90.00	6,502.6	0.0	0.4	1.50	1.50	0.00	90.00	
10,079.3	0.79	90.00	10,078.9	0.0	49.6	0.00	0.00	0.00	0.00	
10,131.9	0.00	0.00	10,131.5	0.0	50.0	1.50	-1.50	0.00	180.00	KOP @ 10,132'
10,878.0	89.53	179.52	10,609.0	-473.6	54.0	12.00	12.00	0.00	179.52	
18,214.9	89.53	179.52	10,669.0	-7,810.0	116.0	0.00	0.00	0.00	0.00	BHL: 330' FSL & 1980'

# Planning Report

**Database:** Hobbs  
**Company:** Mewbourne Oil Company  
**Project:** Lea County, New Mexico NAD 83  
**Site:** Sand Chute 9/16 B2JO Fed Com #1H  
**Well:** Sec 9, T20S, R35E  
**Wellbore:** BHL: 330' FSL & 1980' FEL, Sec 16  
**Design:** Design #1

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

Site Sand Chute 9/16 B2JO Fed Com #1H  
 WELL @ 3719.0usft (Original Well Elev)  
 WELL @ 3719.0usft (Original Well Elev)  
 Grid  
 Minimum Curvature

## Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Built Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SL: 2435' FNL & 2030' FEL, Sec 9									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00

# Planning Report

Database: Hobbs  
 Company: Mewbourne Oil Company  
 Project: Lea County, New Mexico NAD 83  
 Site: Sand Chute 9/16 B2JO Fed Com #1H  
 Well: Sec 9, T20S, R35E  
 Wellbore: BHL: 330' FSL & 1980' FEL, Sec 16  
 Design: Design #1

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

Site Sand Chute 9/16 B2JO Fed Com #1H  
 WELL @ 3719.0usft (Original Well Elev)  
 WELL @ 3719.0usft (Original Well Elev)  
 Grid  
 Minimum Curvature

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,450.0	0.00	0.00	6,450.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.75	90.00	6,500.0	0.0	0.3	0.0	1.50	1.50	0.00
6,502.6	0.79	90.00	6,502.6	0.0	0.4	0.0	1.50	1.50	0.00
6,600.0	0.79	90.00	6,600.0	0.0	1.7	0.0	0.00	0.00	0.00
6,700.0	0.79	90.00	6,700.0	0.0	3.1	0.0	0.00	0.00	0.00
6,800.0	0.79	90.00	6,800.0	0.0	4.5	0.1	0.00	0.00	0.00
6,900.0	0.79	90.00	6,900.0	0.0	5.8	0.1	0.00	0.00	0.00
7,000.0	0.79	90.00	7,000.0	0.0	7.2	0.1	0.00	0.00	0.00
7,100.0	0.79	90.00	7,099.9	0.0	8.6	0.1	0.00	0.00	0.00
7,200.0	0.79	90.00	7,199.9	0.0	10.0	0.1	0.00	0.00	0.00
7,300.0	0.79	90.00	7,299.9	0.0	11.3	0.2	0.00	0.00	0.00
7,400.0	0.79	90.00	7,399.9	0.0	12.7	0.2	0.00	0.00	0.00
7,500.0	0.79	90.00	7,499.9	0.0	14.1	0.2	0.00	0.00	0.00
7,600.0	0.79	90.00	7,599.9	0.0	15.5	0.2	0.00	0.00	0.00
7,700.0	0.79	90.00	7,699.9	0.0	16.9	0.3	0.00	0.00	0.00
7,800.0	0.79	90.00	7,799.9	0.0	18.2	0.3	0.00	0.00	0.00
7,900.0	0.79	90.00	7,899.9	0.0	19.6	0.3	0.00	0.00	0.00
8,000.0	0.79	90.00	7,999.9	0.0	21.0	0.3	0.00	0.00	0.00
8,100.0	0.79	90.00	8,099.8	0.0	22.4	0.3	0.00	0.00	0.00
8,200.0	0.79	90.00	8,199.8	0.0	23.7	0.4	0.00	0.00	0.00
8,300.0	0.79	90.00	8,299.8	0.0	25.1	0.4	0.00	0.00	0.00
8,400.0	0.79	90.00	8,399.8	0.0	26.5	0.4	0.00	0.00	0.00
8,500.0	0.79	90.00	8,499.8	0.0	27.9	0.4	0.00	0.00	0.00
8,600.0	0.79	90.00	8,599.8	0.0	29.3	0.4	0.00	0.00	0.00
8,700.0	0.79	90.00	8,699.8	0.0	30.6	0.5	0.00	0.00	0.00
8,800.0	0.79	90.00	8,799.8	0.0	32.0	0.5	0.00	0.00	0.00
8,900.0	0.79	90.00	8,899.8	0.0	33.4	0.5	0.00	0.00	0.00
9,000.0	0.79	90.00	8,999.8	0.0	34.8	0.5	0.00	0.00	0.00
9,100.0	0.79	90.00	9,099.8	0.0	36.1	0.5	0.00	0.00	0.00
9,200.0	0.79	90.00	9,199.7	0.0	37.5	0.6	0.00	0.00	0.00
9,300.0	0.79	90.00	9,299.7	0.0	38.9	0.6	0.00	0.00	0.00
9,400.0	0.79	90.00	9,399.7	0.0	40.3	0.6	0.00	0.00	0.00
9,500.0	0.79	90.00	9,499.7	0.0	41.7	0.6	0.00	0.00	0.00
9,600.0	0.79	90.00	9,599.7	0.0	43.0	0.6	0.00	0.00	0.00
9,700.0	0.79	90.00	9,699.7	0.0	44.4	0.7	0.00	0.00	0.00
9,800.0	0.79	90.00	9,799.7	0.0	45.8	0.7	0.00	0.00	0.00
9,900.0	0.79	90.00	9,899.7	0.0	47.2	0.7	0.00	0.00	0.00
10,000.0	0.79	90.00	9,999.7	0.0	48.5	0.7	0.00	0.00	0.00
10,079.3	0.79	90.00	10,078.9	0.0	49.6	0.7	0.00	0.00	0.00
10,100.0	0.48	90.00	10,099.7	0.0	49.9	0.7	1.50	-1.50	0.00
10,131.9	0.00	0.00	10,131.5	0.0	50.0	0.7	1.50	-1.50	0.00

# Planning Report

**Database:** Hobbs  
**Company:** Mewbourne Oil Company  
**Project:** Lea County, New Mexico NAD 83  
**Site:** Sand Chute 9/16 B2JO Fed Com #1H  
**Well:** Sec 9, T20S, R35E  
**Wellbore:** BHL: 330' FSL & 1980' FEL, Sec 16  
**Design:** Design #1

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

Site Sand Chute 9/16 B2JO Fed Com #1H  
 WELL @ 3719.0usft (Original Well Elev)  
 WELL @ 3719.0usft (Original Well Elev)  
 Grid  
 Minimum Curvature

## Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
<b>KOP @ 10,132'</b>									
10,200.0	8.17	179.52	10,199.4	-4.9	50.0	5.6	12.00	12.00	0.00
10,300.0	20.17	179.52	10,296.2	-29.3	50.2	30.0	12.00	12.00	0.00
10,400.0	32.17	179.52	10,385.8	-73.3	50.6	74.1	12.00	12.00	0.00
10,500.0	44.17	179.52	10,464.3	-135.0	51.1	135.8	12.00	12.00	0.00
10,600.0	56.17	179.52	10,528.2	-211.7	51.8	212.4	12.00	12.00	0.00
10,700.0	68.17	179.52	10,574.8	-299.9	52.5	300.7	12.00	12.00	0.00
10,800.0	80.17	179.52	10,602.0	-396.0	53.3	396.7	12.00	12.00	0.00
10,878.0	89.53	179.52	10,609.0	-473.6	54.0	474.3	11.99	11.99	0.00
<b>LP: 2386' FSL &amp; 1980' FEL, Sec 9</b>									
10,900.0	89.53	179.52	10,609.2	-495.6	54.2	496.3	0.00	0.00	0.00
10,944.4	89.53	179.52	10,609.5	-540.0	54.6	540.8	0.00	0.00	0.00
<b>FTP: 2340' FSL &amp; 1980' FEL, Sec 9</b>									
11,000.0	89.53	179.52	10,610.0	-595.6	55.0	596.3	0.00	0.00	0.00
11,100.0	89.53	179.52	10,610.8	-695.5	55.9	696.3	0.00	0.00	0.00
11,200.0	89.53	179.52	10,611.6	-795.5	56.7	796.3	0.00	0.00	0.00
11,300.0	89.53	179.52	10,612.5	-895.5	57.6	896.3	0.00	0.00	0.00
11,400.0	89.53	179.52	10,613.3	-995.5	58.4	996.3	0.00	0.00	0.00
11,500.0	89.53	179.52	10,614.1	-1,095.5	59.3	1,096.3	0.00	0.00	0.00
11,600.0	89.53	179.52	10,614.9	-1,195.5	60.1	1,196.3	0.00	0.00	0.00
11,700.0	89.53	179.52	10,615.7	-1,295.5	60.9	1,296.3	0.00	0.00	0.00
11,800.0	89.53	179.52	10,616.5	-1,395.5	61.8	1,396.3	0.00	0.00	0.00
11,900.0	89.53	179.52	10,617.4	-1,495.5	62.6	1,496.3	0.00	0.00	0.00
12,000.0	89.53	179.52	10,618.2	-1,595.5	63.5	1,596.2	0.00	0.00	0.00
12,100.0	89.53	179.52	10,619.0	-1,695.5	64.3	1,696.2	0.00	0.00	0.00
12,200.0	89.53	179.52	10,619.8	-1,795.5	65.2	1,796.2	0.00	0.00	0.00
12,300.0	89.53	179.52	10,620.6	-1,895.5	66.0	1,896.2	0.00	0.00	0.00
12,400.0	89.53	179.52	10,621.4	-1,995.5	66.9	1,996.2	0.00	0.00	0.00
12,500.0	89.53	179.52	10,622.3	-2,095.4	67.7	2,096.2	0.00	0.00	0.00
12,600.0	89.53	179.52	10,623.1	-2,195.4	68.6	2,196.2	0.00	0.00	0.00
12,700.0	89.53	179.52	10,623.9	-2,295.4	69.4	2,296.2	0.00	0.00	0.00
12,800.0	89.53	179.52	10,624.7	-2,395.4	70.2	2,396.2	0.00	0.00	0.00
12,900.0	89.53	179.52	10,625.5	-2,495.4	71.1	2,496.2	0.00	0.00	0.00
13,000.0	89.53	179.52	10,626.4	-2,595.4	71.9	2,596.2	0.00	0.00	0.00
13,100.0	89.53	179.52	10,627.2	-2,695.4	72.8	2,696.2	0.00	0.00	0.00
13,200.0	89.53	179.52	10,628.0	-2,795.4	73.6	2,796.2	0.00	0.00	0.00
13,257.6	89.53	179.52	10,628.5	-2,853.0	74.1	2,853.8	0.00	0.00	0.00
<b>PPP2: 0' FNL &amp; 1980' FEL, Sec 16</b>									
13,300.0	89.53	179.52	10,628.8	-2,895.4	74.5	2,896.2	0.00	0.00	0.00
13,400.0	89.53	179.52	10,629.6	-2,995.4	75.3	2,996.2	0.00	0.00	0.00
13,500.0	89.53	179.52	10,630.4	-3,095.4	76.2	3,096.2	0.00	0.00	0.00
13,600.0	89.53	179.52	10,631.3	-3,195.4	77.0	3,196.2	0.00	0.00	0.00
13,700.0	89.53	179.52	10,632.1	-3,295.4	77.8	3,296.2	0.00	0.00	0.00
13,800.0	89.53	179.52	10,632.9	-3,395.4	78.7	3,396.2	0.00	0.00	0.00
13,900.0	89.53	179.52	10,633.7	-3,495.3	79.5	3,496.1	0.00	0.00	0.00
14,000.0	89.53	179.52	10,634.5	-3,595.3	80.4	3,596.1	0.00	0.00	0.00
14,100.0	89.53	179.52	10,635.3	-3,695.3	81.2	3,696.1	0.00	0.00	0.00
14,200.0	89.53	179.52	10,636.2	-3,795.3	82.1	3,796.1	0.00	0.00	0.00
14,300.0	89.53	179.52	10,637.0	-3,895.3	82.9	3,896.1	0.00	0.00	0.00
14,400.0	89.53	179.52	10,637.8	-3,995.3	83.8	3,996.1	0.00	0.00	0.00
14,500.0	89.53	179.52	10,638.6	-4,095.3	84.6	4,096.1	0.00	0.00	0.00
14,600.0	89.53	179.52	10,639.4	-4,195.3	85.5	4,196.1	0.00	0.00	0.00
14,700.0	89.53	179.52	10,640.3	-4,295.3	86.3	4,296.1	0.00	0.00	0.00

# Planning Report

**Database:** Hobbs  
**Company:** Mewbourne Oil Company  
**Project:** Lea County, New Mexico NAD 83  
**Site:** Sand Chute 9/16 B2JO Fed Com #1H  
**Well:** Sec 9, T20S, R35E  
**Wellbore:** BHL: 330' FSL & 1980' FEL, Sec 16  
**Design:** Design #1

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

Site Sand Chute 9/16 B2JO Fed Com #1H  
 WELL @ 3719.0usft (Original Well Elev)  
 WELL @ 3719.0usft (Original Well Elev)  
 Grid  
 Minimum Curvature

## Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,800.0	89.53	179.52	10,641.1	-4,395.3	87.1	4,396.1	0.00	0.00	0.00
14,900.0	89.53	179.52	10,641.9	-4,495.3	88.0	4,496.1	0.00	0.00	0.00
15,000.0	89.53	179.52	10,642.7	-4,595.3	88.8	4,596.1	0.00	0.00	0.00
15,100.0	89.53	179.52	10,643.5	-4,695.3	89.7	4,696.1	0.00	0.00	0.00
15,200.0	89.53	179.52	10,644.3	-4,795.3	90.5	4,796.1	0.00	0.00	0.00
15,300.0	89.53	179.52	10,645.2	-4,895.3	91.4	4,896.1	0.00	0.00	0.00
15,400.0	89.53	179.52	10,646.0	-4,995.2	92.2	4,996.1	0.00	0.00	0.00
15,500.0	89.53	179.52	10,646.8	-5,095.2	93.1	5,096.1	0.00	0.00	0.00
15,600.0	89.53	179.52	10,647.6	-5,195.2	93.9	5,196.1	0.00	0.00	0.00
15,700.0	89.53	179.52	10,648.4	-5,295.2	94.7	5,296.0	0.00	0.00	0.00
15,800.0	89.53	179.52	10,649.3	-5,395.2	95.6	5,396.0	0.00	0.00	0.00
15,900.0	89.53	179.52	10,650.1	-5,495.2	96.4	5,496.0	0.00	0.00	0.00
16,000.0	89.53	179.52	10,650.9	-5,595.2	97.3	5,596.0	0.00	0.00	0.00
16,100.0	89.53	179.52	10,651.7	-5,695.2	98.1	5,696.0	0.00	0.00	0.00
16,200.0	89.53	179.52	10,652.5	-5,795.2	99.0	5,796.0	0.00	0.00	0.00
16,300.0	89.53	179.52	10,653.3	-5,895.2	99.8	5,896.0	0.00	0.00	0.00
16,400.0	89.53	179.52	10,654.2	-5,995.2	100.7	5,996.0	0.00	0.00	0.00
16,500.0	89.53	179.52	10,655.0	-6,095.2	101.5	6,096.0	0.00	0.00	0.00
16,600.0	89.53	179.52	10,655.8	-6,195.2	102.4	6,196.0	0.00	0.00	0.00
16,700.0	89.53	179.52	10,656.6	-6,295.2	103.2	6,296.0	0.00	0.00	0.00
16,800.0	89.53	179.52	10,657.4	-6,395.1	104.0	6,396.0	0.00	0.00	0.00
16,900.0	89.53	179.52	10,658.2	-6,495.1	104.9	6,496.0	0.00	0.00	0.00
17,000.0	89.53	179.52	10,659.1	-6,595.1	105.7	6,596.0	0.00	0.00	0.00
17,100.0	89.53	179.52	10,659.9	-6,695.1	106.6	6,696.0	0.00	0.00	0.00
17,200.0	89.53	179.52	10,660.7	-6,795.1	107.4	6,796.0	0.00	0.00	0.00
17,300.0	89.53	179.52	10,661.5	-6,895.1	108.3	6,896.0	0.00	0.00	0.00
17,400.0	89.53	179.52	10,662.3	-6,995.1	109.1	6,996.0	0.00	0.00	0.00
17,500.0	89.53	179.52	10,663.2	-7,095.1	110.0	7,096.0	0.00	0.00	0.00
17,600.0	89.53	179.52	10,664.0	-7,195.1	110.8	7,195.9	0.00	0.00	0.00
17,700.0	89.53	179.52	10,664.8	-7,295.1	111.6	7,295.9	0.00	0.00	0.00
17,800.0	89.53	179.52	10,665.6	-7,395.1	112.5	7,395.9	0.00	0.00	0.00
17,900.0	89.53	179.52	10,666.4	-7,495.1	113.3	7,495.9	0.00	0.00	0.00
18,000.0	89.53	179.52	10,667.2	-7,595.1	114.2	7,595.9	0.00	0.00	0.00
18,100.0	89.53	179.52	10,668.1	-7,695.1	115.0	7,695.9	0.00	0.00	0.00
18,200.0	89.53	179.52	10,668.9	-7,795.1	115.9	7,795.9	0.00	0.00	0.00
18,214.9	89.53	179.52	10,669.0	-7,810.0	116.0	7,810.9	0.00	0.00	0.00

BHL: 330' FSL & 1980' FEL, Sec 16

# Planning Report

**Database:** Hobbs  
**Company:** Mewbourne Oil Company  
**Project:** Lea County, New Mexico NAD 83  
**Site:** Sand Chute 9/16 B2JO Fed Com #1H  
**Well:** Sec 9, T20S, R35E  
**Wellbore:** BHL: 330' FSL & 1980' FEL, Sec 16  
**Design:** Design #1

**Local Co-ordinate Reference:** Site Sand Chute 9/16 B2JO Fed Com #1H  
**TVD Reference:** WELL @ 3719.0usft (Original Well Elev)  
**MD Reference:** WELL @ 3719.0usft (Original Well Elev)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SL: 2435' FNL & 2030' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	578,860.00	810,222.00	32.5883066	-103.4603245	
KOP @ 10,132' - plan hits target center - Point	0.00	0.00	10,131.5	0.0	50.0	578,860.00	810,272.00	32.5883054	-103.4601622	
LP: 2386' FSL & 1980' F - plan hits target center - Point	0.00	0.00	10,609.0	-473.6	54.0	578,386.40	810,276.00	32.5870037	-103.4601618	
FTP: 2340' FSL & 1980' - plan hits target center - Point	0.00	0.00	10,609.5	-540.0	54.6	578,320.00	810,276.56	32.5868212	-103.4601618	
PPP2: 0' FNL & 1980' FI - plan hits target center - Point	0.00	0.00	10,628.5	-2,853.0	74.1	576,007.00	810,296.11	32.5804636	-103.4601600	
BHL: 330' FSL & 1980' F - plan hits target center - Point	0.00	0.00	10,669.0	-7,810.0	116.0	571,050.00	810,338.00	32.5668387	-103.4601560	