

**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. 16391**

**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 Lots W/2E/2 of Section 4 and the W/2NE/4 Section 9, Township 20 South, Range 35 East, NMPM. The unit will be dedicated to the Sand Chute 9/4 B2GB Fed Com #1H, a horizontal well with a surface location in Unit G in Section 9 and a final take point in Unit B of Section 4.
  - (d) The parties being pooled and their interests are set forth in Attachment B. Their current and correct addresses are also set forth.
  - (e) Attachment C contains a summary of contacts with the interest owners, together with copies of the proposal letters sent to them.

EXHIBIT |

- (f) Mewbourne has made a good faith effort to obtain the voluntary joinder of the working interest owners in the proposed well.
- (g) Mewbourne has the right to pool the overriding royalty owners in the well unit.
- (h) 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.
- (i) 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.
- (j) Mewbourne requests that the maximum cost plus 200% risk charge be assessed against non-consenting working interest owners.
- (k) Applicant requests that it be designated operator of the well.
- (l) The attachments to this affidavit were prepared by me or under my supervision, or compiled from company business records.
- (m) The granting of this application is in the interests of conservation and the prevention of waste.

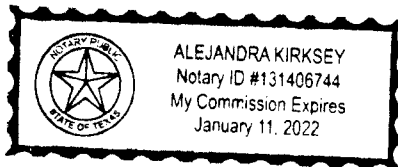


STATE OF TEXAS                                 )  
  ) ss.  
COUNTY OF MIDLAND                         )

Cy Shook

My Commission Expires: Jan. 11, 2023

Alexandra Vukich  
Notary Public





**TRACT OWNERSHIP**  
**Sand Chute 9/4 B2GB Fed Com #1H**  
**W/2E/2 of Section 4,**  
**W/2NE/4 of Section 9,**  
**Township 20 South, Range 35 East**  
**Lea County, New Mexico**

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

Mewbourne Oil Company  
500 West Texas, Ste. 1020  
Midland, Texas 79701

% Leasehold Interest  
66.66667%

\*EOG Resources, Inc.  
5509 Champions Dr.  
Midland, TX 79706  
Attn: Permian Land Manager

33.33333%

Total	100.00000%
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**\* Total interest being pooled: 33.33333%**

ATTACHMENT **B**

Summary of Communication with EOG Resources, Inc.

Case # 16391

Compulsory Pooling Application

MOC's Sand Chute 9/4 B2GB Fed Com #1H

API #Pending


2435' FNL & 2000' FEL (SL) (Sec. 9)

330' FNL & 1980' FEL (BHL) (Sec. 4)

Sections 4 and 9, T20S, R35E

Lea County, New Mexico

3/28/2018: Emailed Charles Bassett at EOG with Well Proposal and Farmout Offer  
3/29/2018: Called Charles Bassett to let him know the well proposal was on its way and FO offer was emailed; left message.  
4/6/2018: Well Proposal for Sand Chute 9/4 B2GB Fed Com #1H received by EOG Resources, Inc.  
5/15/2018: Emailed Charles Bassett asked for an update on the Well Proposal and/or Farmout Offer  
5/15/2018: (Approximate date) Call Charles Bassett; no answer or return phone call; left message  
7/19/2018: Emailed Charles Bassett for update on Well Proposal and/or Farmout Offer.

ATTACHMENT 



Date: April 6, 2018

Simple Certified:

The following is in response to your April 6, 2018 request for delivery information on your Certified Mail™/RRE item number 9414810699945030359399. The delivery record shows that this item was delivered on April 6, 2018 at 7:36 am in MIDLAND, TX 79702. The scanned image of the recipient information is provided below.

Signature of Recipient :

Signature of Recipient :  
J. Berry

Address of Recipient :

Address of Recipient :  
2267

Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,  
United States Postal Service

EOG Resources, Inc.  
5509 CHAMPIONS DR  
MIDLAND, TX 79706  
Reference #: Sand Chute 9/16 B2J0 #1H Well Proposal — Error  
Item ID: Sand Chute 9 16 B2J0 No1H

B26B

# MEWBOURNE OIL COMPANY

500 W. TEXAS, SUITE 1020  
MIDLAND, TEXAS 79701

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

April 4, 2018

Via Certified Mail

EOG Resources, Inc.  
5509 Champions Dr.  
Midland, Texas 79706  
Attn: Permian Land Manager

Re: Well Proposal  
Sand Chute 9/4 B2GB Fed Com #1H  
Section 9: W2NE4  
Section 4: 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 9/4 B2GB Fed Com #1H will be at a surface location 2435' FNL & 2000' FEL in Section 9 and a bottom hole location approximately 330' FNL & 1980' FEL in Section 4, T-20-S, R-35-E, Lea County, New Mexico. We anticipate drilling to an approximate vertical depth of 10,600' and an approximate measured depth of 17,823'. The estimated cost to casing point for this well is \$3,438,000 and the estimated cost of a producing well is \$9,376,200. These costs are more fully detailed in the AFE enclosed herewith. If successful, the project area for this well will be comprised of the W2NE4 of Section 9 and the W2E2 of Section 4.

To facilitate the drilling of this well and the development of the N2 of Section 9 and Section 4, Mewbourne proposes forming a working interest unit by signing an Operating Agreement with a Contract Area comprised of the N2 of Section 9 and Section 4. If EOG elects to execute an Operating Agreement under the terms, EOG would have an approximately 33.3333% interest within the Contract Area. If you wishes to form this working interest unit, please advise and I will send an Operating Agreement for your review and execution.

If you does not wish to participate in the well Mewbourne 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".

Cy Shook  
Landman

# MEWBOURNE OIL COMPANY

## AUTHORIZATION FOR EXPENDITURE

Well Name: <b>Sand Chute 9/4 B2GB Fed Com #1H</b>		Prospect: <b>Bone Spring</b>	
Location: <b>SL: 2435' FNL &amp; 2000' FEL (9); BHL: 330' FNL &amp; 1980' FEL (4)</b>		County: <b>Lea</b> ST: <b>NM</b>	
Sec: <b>9</b>	BLK: <b></b>	Survey: <b></b>	TWP: <b>20S</b> RNG: <b>35E</b> Prop: <b>TVD</b> 10600 TMD: <b>17823</b>

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	\$300,000
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	\$5,500	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	\$454,700
<b>TOTAL</b>			<b>\$2,806,200</b>		<b>\$5,001,600</b>

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") 10900' - 7" 27# P-110 LT&C @ \$27.76/ft		0181-0796	\$323,200		
Casing (4.1" - 6.0") 7900' - 4 1/2" 13.5# P-110 BPN @ \$13.66/ft				0181-0797	\$115,300
Tubing 10130' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.74/ft				0181-0798	\$51,300
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 0.3 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
<b>TOTAL</b>			<b>\$631,800</b>		<b>\$936,600</b>
<b>SUBTOTAL</b>			<b>\$3,438,000</b>		<b>\$5,938,200</b>
<b>TOTAL WELL COST</b>			<b>\$9,376,200</b>		

☐ 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>B. Talley</b>	Date: <b>3/14/2018</b>
Company Approval: <i>M. Whitte</i>	Date: <b>3/14/2018</b>
Joint Owner Interest: <b>33.33300000%</b> Amount: <b>\$3,125,368.75</b>	
Joint Owner Name: <b>EOG Resources, Inc.</b>	Signature: <i>[Signature]</i>

File: Sand Chute 9-4 B2GB Fed Com 1H AFE.xlsx

Revised: 01/31/2018

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.**

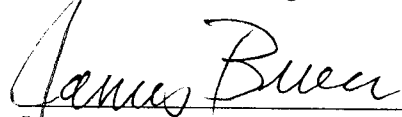
**Case No. 16391**

**AFFIDAVIT OF NOTICE**

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

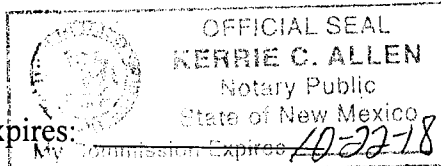
James Bruce, being duly sworn upon his oath, deposes and states:

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:



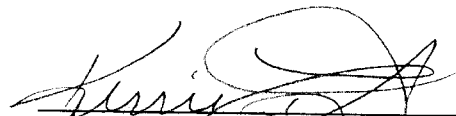
  
Notary Public

EXHIBIT 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 4 and the W/2NE/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 *A*

Exhibit A

EOG Resources, Inc.  
5509 Champions Drive  
Midland, Texas 79706

7018 0360 0000 2188 7069

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT**  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**

Certified Mail Fee \$  
Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$

Postmark  
Here

Postage \$  
Total Postage and Fees \$

Sent To EOG Resources, Inc.  
Street and Apt. No., or 5509 Champions Drive  
Midland, Texas 79706  
City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

EOG Resources, Inc.  
5509 Champions Drive  
Midland, Texas 79706



9590 9402 4079 8092 0246 27

2. Article Number (Transfer from service label)

7018 0360 0000 2188 7069

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

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X

☒ Agent

☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes  
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ First Mail
- ☐ First Mail Restricted Delivery

- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

domestic Return Receipt

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. 16391

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 9/4 B2GB Fed. Com. Well No. 1H. It shows that the sand across the well unit has a uniform thickness of approximately 100 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.

A handwritten signature in cursive script, reading "Jordan Carrell".

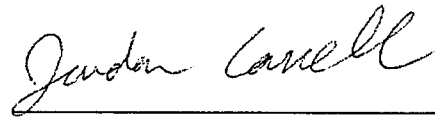
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Jordan Carrell

VERIFICATION

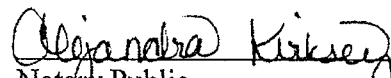
STATE OF TEXAS                                 )  
  ) ss.  
COUNTY OF MIDLAND                         )

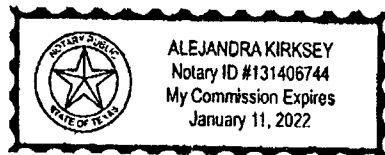
Jordan Carrell, being duly sworn upon his oath, deposes and states that: He is a geologist for Mewbourne Oil Company; he is authorized to make this verification on its behalf; he has read the foregoing statement, and knows the contents thereof; and the same is true and correct to the best of his knowledge,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

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

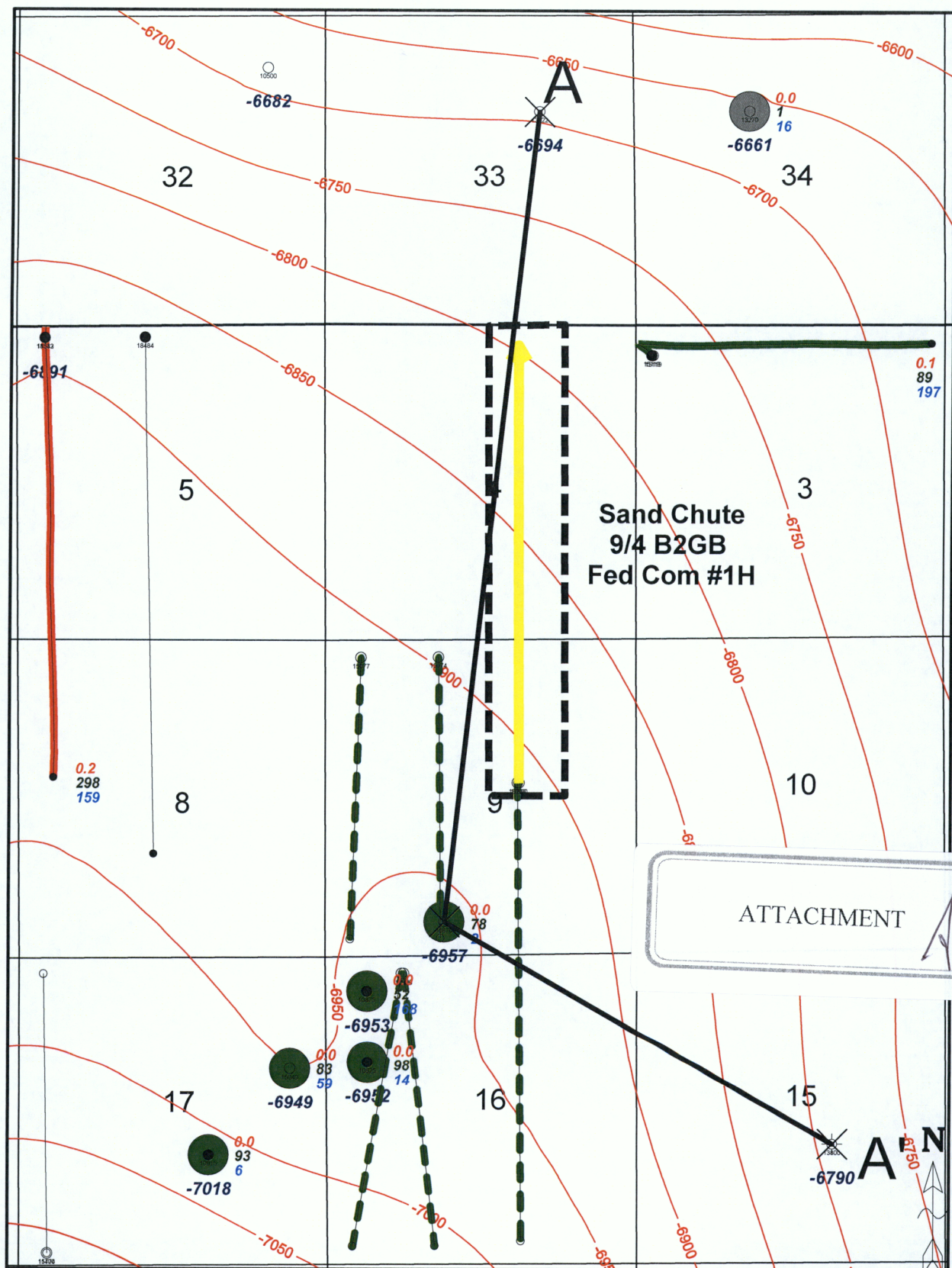
SUBSCRIBED AND SWORN TO before me this 31<sup>st</sup> day of August, 2018 by Jordan Carrell.

My Commission Expires: Jan. 11, 2022

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







Wells shallower than  
7000' are filtered out

BSPG Production

● Cum BCF  
● Cum MBO  
● TD Cum MBW

Depth of 2nd BSPG Sd  
Base (subsea)

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 = 2500 feet 2500 ft



**Mewbourne Oil Company**

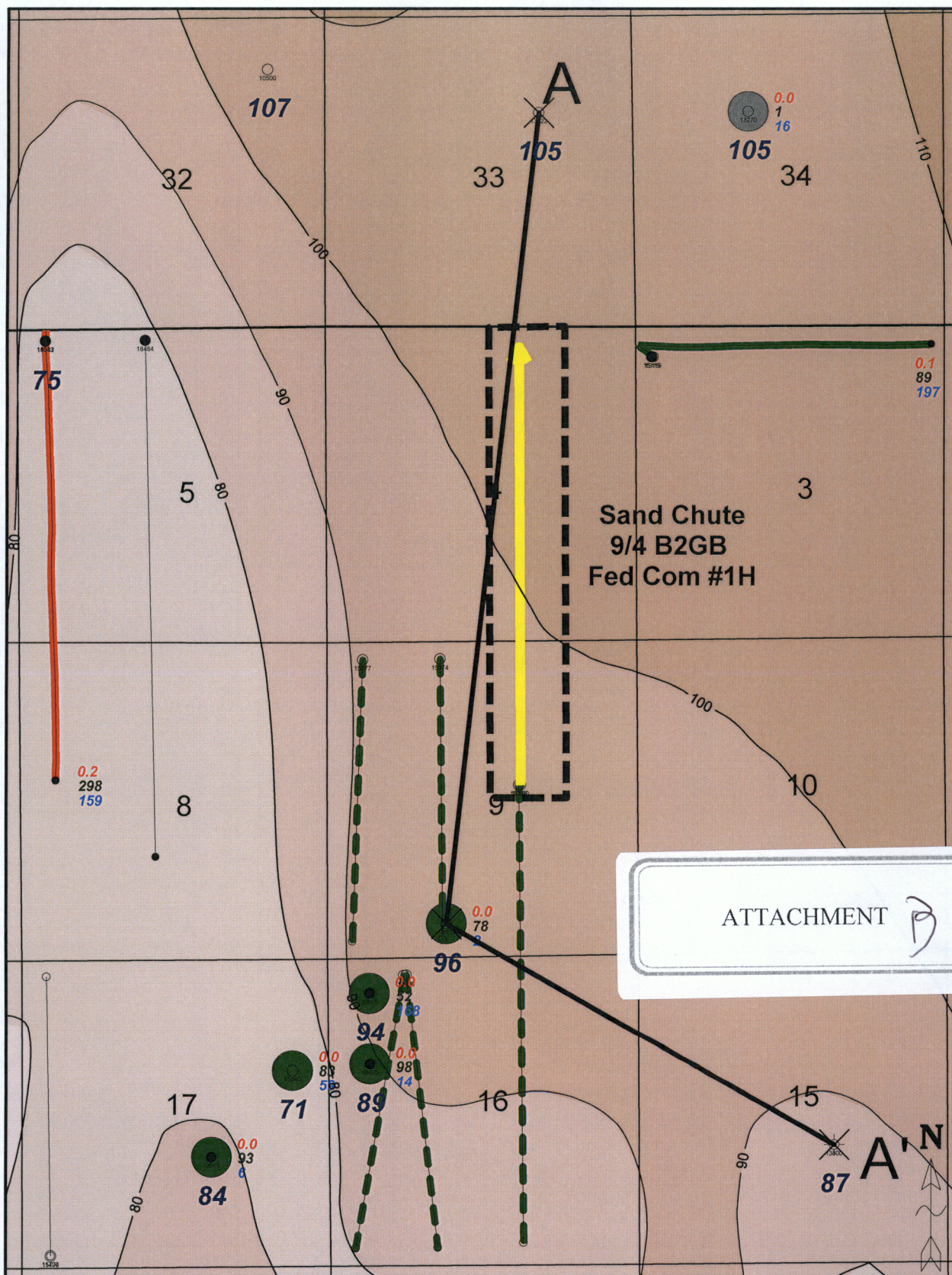
Sand Chute 9/4 B2GB Fed Com #1H  
Base of 2nd BSPG Sand Structure Contour Map  
C.I. = 50'  
Sections 9 & 4, 20S/35E, Lea County, New Mexico

Author:  
J. Carrell

Scale:  
1" = 2500'

Date:  
31 August, 2018





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

● Avalon Well  
● 2nd BSPG Well

2500 0 2500 ft  
1 inch = 2500 feet



**Mewbourne Oil Company**

Sand Chute 9/4 B2GB Fed Com #1H  
Lower 2nd BSPG Gross Sand Isopach Map Exhibit  
C.I. = 10'  
Sections 9 & 4, 20S/35E, Lea County, New Mexico

Author:  
J. Carrell

Scale:  
1" = 2500'

Date:  
29 August, 2018



A

RKI EXPLORATION & PRODUCTION LLC  
TORO 33 STATE 1  
SW NE  
TWP: 19 S - Range: 35 E - Sec. 33  
Reference=KB  
Datum=3703.00

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

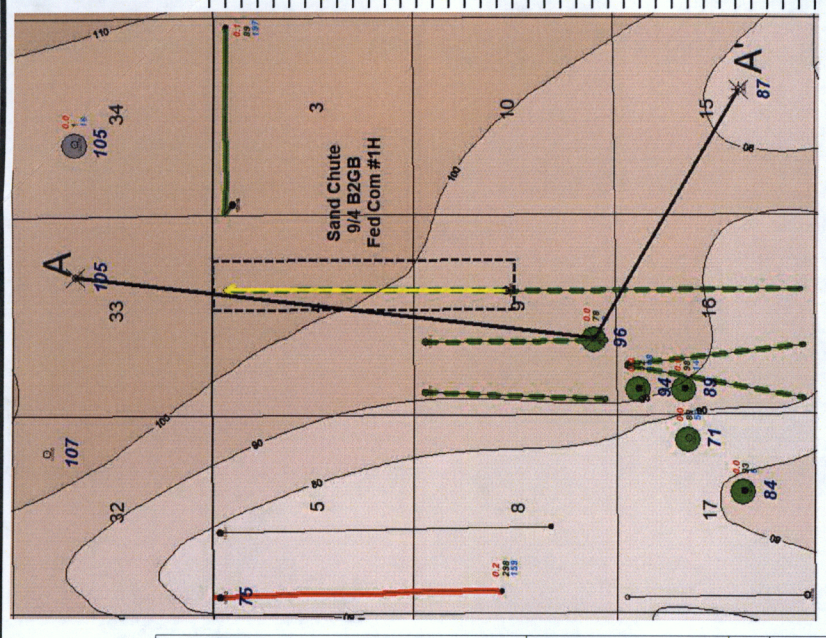
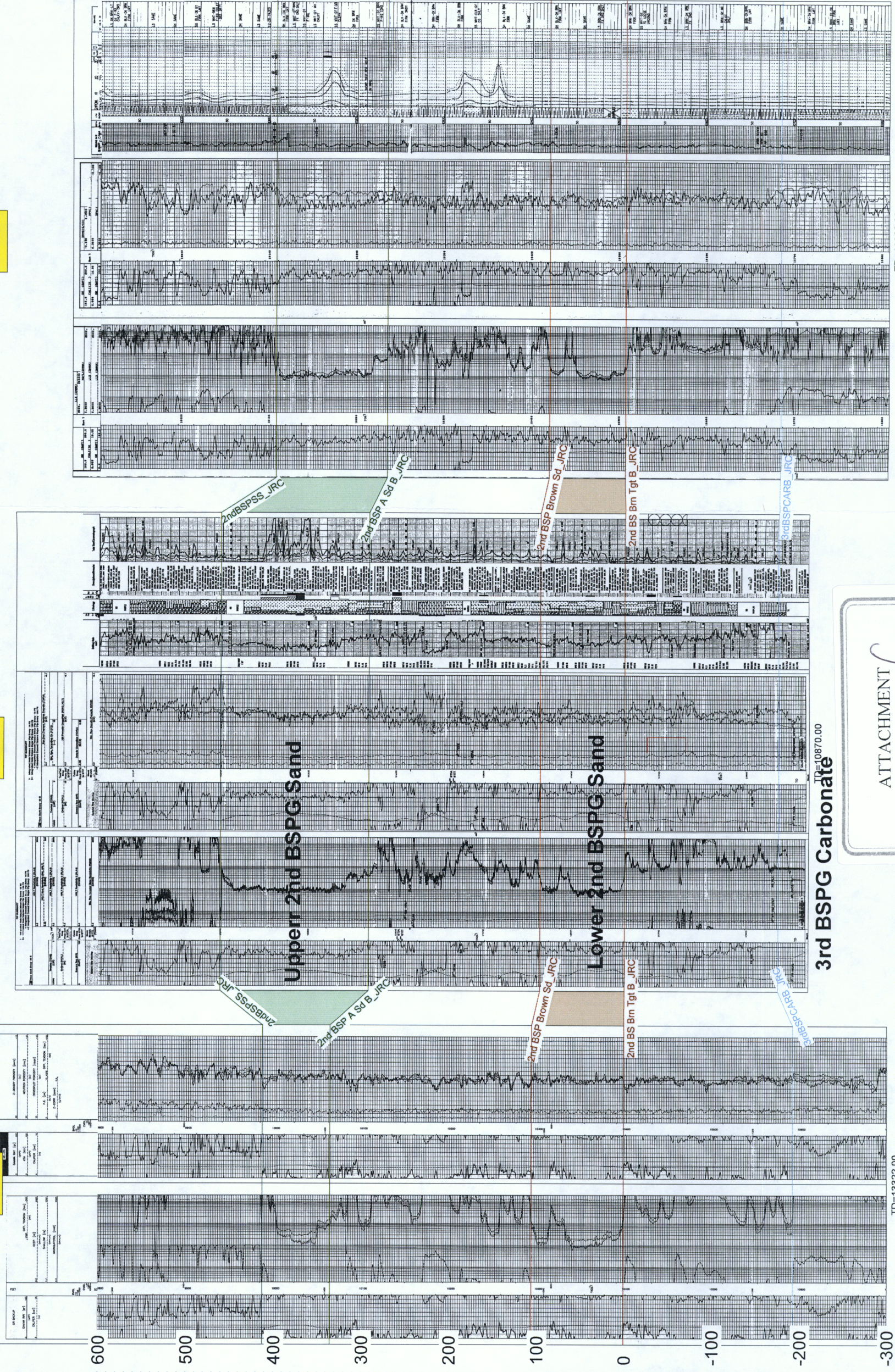
AMOCO PROD CO  
FEDERAL 'BT' GAS CO 1  
1980 FSL/1980 FEL  
TWP: 20 S - Range: 35 E - Sec. 15  
Reference=KB  
Datum=3717.00

A'

33G

9N

15J



Lower 2nd BSPG Gross Sand Isopach. 200  
Contour Interval = 10'

Horizontal  
Target

3rd BSPG Carbonate  
TD=10870.00

Sand Chute 9/4 B2GB  
2nd BSPG A-A'

ATTACHMENT C

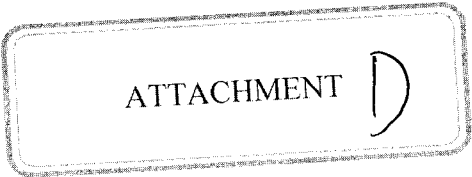
TD=13322.00

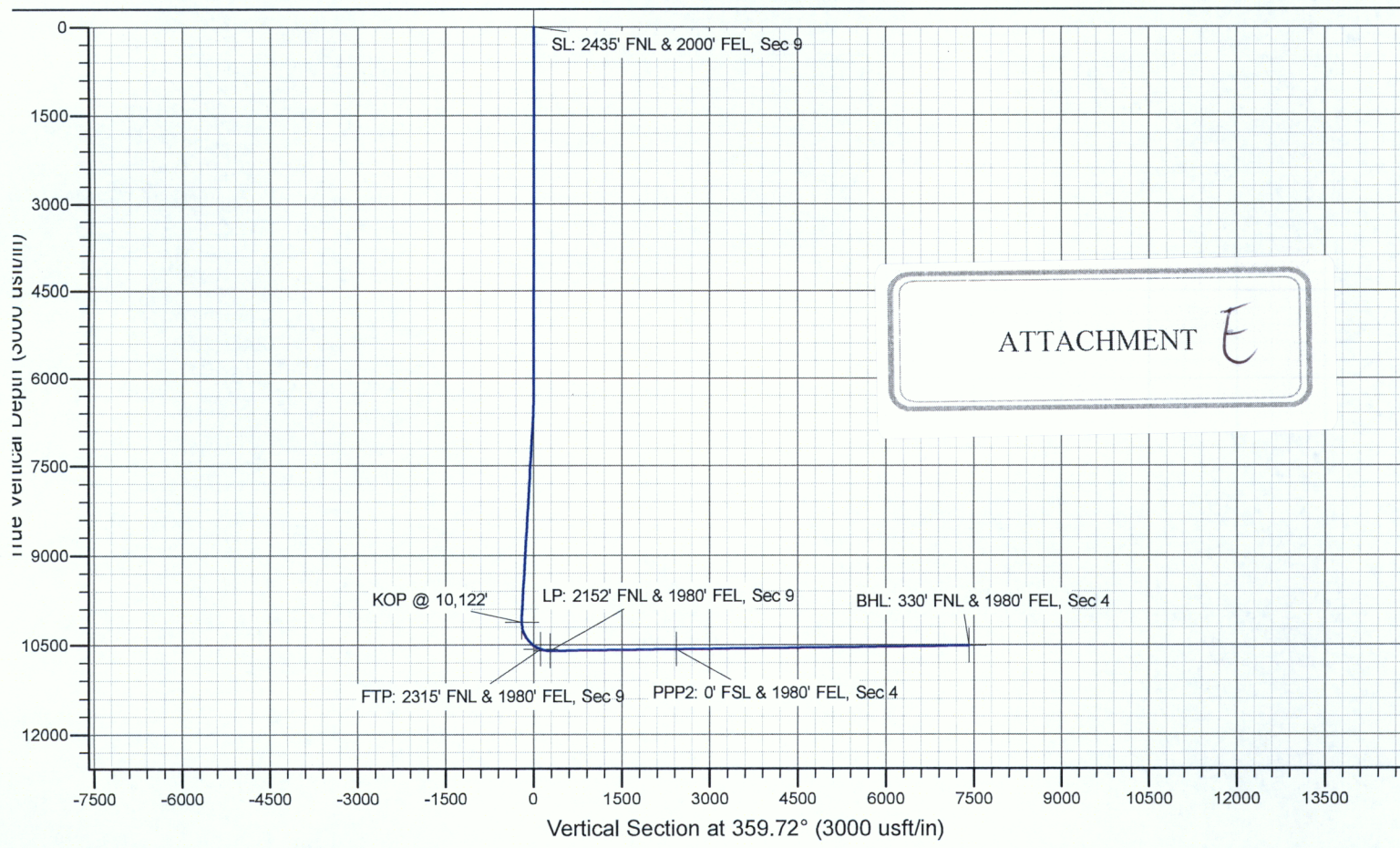
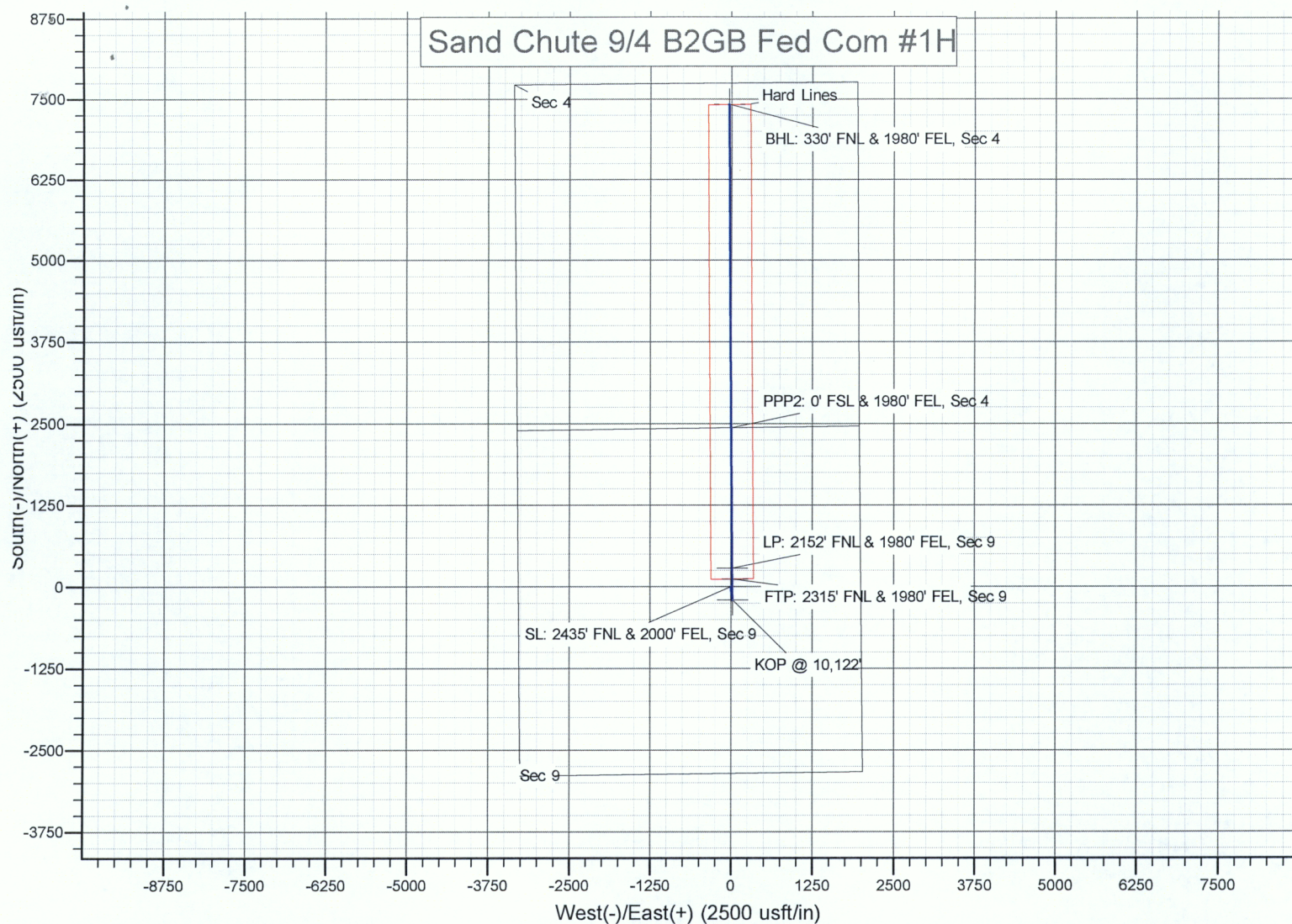
TD=13800.00



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







# **Mewbourne Oil Company**

**Lea County, New Mexico NAD 83**

**Sand Chute 9/4 B2GB Fed Com #1H**

**Sec 9, T20S, R35E**

**SL: 2435' FNL & 2000' FEL, Sec 9**

**BHL: 330' FNL & 1980' FEL, Sec 4**

**Plan: Design #1**

## **Standard Planning Report**

**03 May, 2018**

# Planning Report

**Database:** Hobbs  
**Company:** Mewbourne Oil Company  
**Project:** Lea County, New Mexico NAD 83  
**Site:** Sand Chute 9/4 B2GB Fed Com #1H  
**Well:** Sec 9, T20S, R35E  
**Wellbore:** BHL: 330' FNL & 1980' FEL, Sec 4  
**Design:** Design #1

**Local Co-ordinate Reference:** Site Sand Chute 9/4 B2GB 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

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

<b>Site</b>	Sand Chute 9/4 B2GB Fed Com #1H		
<b>Site Position:</b>		<b>Northing:</b>	578,860.00 usft
<b>From:</b>	Map	<b>Easting:</b>	810,252.00 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	32.5883059
		<b>Longitude:</b>	-103.4602271
		<b>Grid Convergence:</b>	0.47 °

<b>Well</b>	Sec 9, T20S, R35E		
<b>Well Position</b>	+N/-S	0.0 usft	<b>Northing:</b> 578,860.00 usft
	+E/-W	0.0 usft	<b>Easting:</b> 810,252.00 usft
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>	3,719.0 usft
		<b>Latitude:</b>	32.5883059
		<b>Longitude:</b>	-103.4602271
		<b>Ground Level:</b>	3,692.0 usft

<b>Wellbore</b>	BHL: 330' FNL & 1980' FEL, Sec 4		
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>
	IGRF2010	5/3/2018	(°)
			6.70
			Dip Angle (°)
			60.36
			Field Strength (nT)
			48,154

<b>Design</b>	Design #1		
<b>Audit Notes:</b>			
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b> 0.0
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			<b>Direction</b> (°)
			359.72

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	
6,672.6	3.34	173.72	6,672.5	-6.4	0.7	1.50	1.50	0.00	173.72	
9,904.7	3.34	173.72	9,899.1	-193.6	21.3	0.00	0.00	0.00	0.00	
10,127.3	0.00	0.00	10,121.5	-200.0	22.0	1.50	-1.50	0.00	180.00	KOP @ 10,122'
10,883.0	90.68	359.56	10,599.0	283.2	18.3	12.00	12.00	0.00	-0.44	
18,018.6	90.68	359.56	10,514.0	7,418.0	-36.0	0.00	0.00	0.00	0.00	BHL: 330' FNL & 1980'

# Planning Report

**Database:** Hobbs  
**Company:** Mewbourne Oil Company  
**Project:** Lea County, New Mexico NAD 83  
**Site:** Sand Chute 9/4 B2GB Fed Com #1H  
**Well:** Sec 9, T20S, R35E  
**Wellbore:** BHL: 330' FNL & 1980' FEL, Sec 4  
**Design:** Design #1

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

Site Sand Chute 9/4 B2GB 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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>SL: 2435' FNL &amp; 2000' FEL, Sec 9</b>									
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

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**Project:** Lea County, New Mexico NAD 83  
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 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	173.72	6,500.0	-0.3	0.0	-0.3	1.50	1.50	0.00
6,600.0	2.25	173.72	6,600.0	-2.9	0.3	-2.9	1.50	1.50	0.00
6,672.6	3.34	173.72	6,672.5	-6.4	0.7	-6.4	1.50	1.50	0.00
6,700.0	3.34	173.72	6,699.8	-8.0	0.9	-8.0	0.00	0.00	0.00
6,800.0	3.34	173.72	6,799.7	-13.8	1.5	-13.8	0.00	0.00	0.00
6,900.0	3.34	173.72	6,899.5	-19.6	2.2	-19.6	0.00	0.00	0.00
7,000.0	3.34	173.72	6,999.3	-25.4	2.8	-25.4	0.00	0.00	0.00
7,100.0	3.34	173.72	7,099.1	-31.2	3.4	-31.2	0.00	0.00	0.00
7,200.0	3.34	173.72	7,199.0	-37.0	4.1	-37.0	0.00	0.00	0.00
7,300.0	3.34	173.72	7,298.8	-42.8	4.7	-42.8	0.00	0.00	0.00
7,400.0	3.34	173.72	7,398.6	-48.6	5.3	-48.6	0.00	0.00	0.00
7,500.0	3.34	173.72	7,498.5	-54.3	6.0	-54.4	0.00	0.00	0.00
7,600.0	3.34	173.72	7,598.3	-60.1	6.6	-60.2	0.00	0.00	0.00
7,700.0	3.34	173.72	7,698.1	-65.9	7.3	-66.0	0.00	0.00	0.00
7,800.0	3.34	173.72	7,798.0	-71.7	7.9	-71.7	0.00	0.00	0.00
7,900.0	3.34	173.72	7,897.8	-77.5	8.5	-77.5	0.00	0.00	0.00
8,000.0	3.34	173.72	7,997.6	-83.3	9.2	-83.3	0.00	0.00	0.00
8,100.0	3.34	173.72	8,097.5	-89.1	9.8	-89.1	0.00	0.00	0.00
8,200.0	3.34	173.72	8,197.3	-94.9	10.4	-94.9	0.00	0.00	0.00
8,300.0	3.34	173.72	8,297.1	-100.7	11.1	-100.7	0.00	0.00	0.00
8,400.0	3.34	173.72	8,396.9	-106.4	11.7	-106.5	0.00	0.00	0.00
8,500.0	3.34	173.72	8,496.8	-112.2	12.3	-112.3	0.00	0.00	0.00
8,600.0	3.34	173.72	8,596.6	-118.0	13.0	-118.1	0.00	0.00	0.00
8,700.0	3.34	173.72	8,696.4	-123.8	13.6	-123.9	0.00	0.00	0.00
8,800.0	3.34	173.72	8,796.3	-129.6	14.3	-129.7	0.00	0.00	0.00
8,900.0	3.34	173.72	8,896.1	-135.4	14.9	-135.5	0.00	0.00	0.00
9,000.0	3.34	173.72	8,995.9	-141.2	15.5	-141.3	0.00	0.00	0.00
9,100.0	3.34	173.72	9,095.8	-147.0	16.2	-147.0	0.00	0.00	0.00
9,200.0	3.34	173.72	9,195.6	-152.8	16.8	-152.8	0.00	0.00	0.00
9,300.0	3.34	173.72	9,295.4	-158.5	17.4	-158.6	0.00	0.00	0.00
9,400.0	3.34	173.72	9,395.2	-164.3	18.1	-164.4	0.00	0.00	0.00
9,500.0	3.34	173.72	9,495.1	-170.1	18.7	-170.2	0.00	0.00	0.00
9,600.0	3.34	173.72	9,594.9	-175.9	19.4	-176.0	0.00	0.00	0.00
9,700.0	3.34	173.72	9,694.7	-181.7	20.0	-181.8	0.00	0.00	0.00
9,800.0	3.34	173.72	9,794.6	-187.5	20.6	-187.6	0.00	0.00	0.00
9,900.0	3.34	173.72	9,894.4	-193.3	21.3	-193.4	0.00	0.00	0.00
9,904.7	3.34	173.72	9,899.1	-193.6	21.3	-193.7	0.00	0.00	0.00
10,000.0	1.91	173.72	9,994.3	-197.9	21.8	-198.0	1.50	-1.50	0.00
10,100.0	0.41	173.72	10,094.3	-199.9	22.0	-200.0	1.50	-1.50	0.00
10,127.3	0.00	0.00	10,121.5	-200.0	22.0	-200.1	1.50	-1.50	0.00



# Planning Report

**Database:** Hobbs  
**Company:** Mewbourne Oil Company  
**Project:** Lea County, New Mexico NAD 83  
**Site:** Sand Chute 9/4 B2GB Fed Com #1H  
**Well:** Sec 9, T20S, R35E  
**Wellbore:** BHL: 330' FNL & 1980' FEL, Sec 4  
**Design:** Design #1

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

**Site Sand Chute 9/4 B2GB 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)
<b>KOP @ 10,122'</b>									
10,200.0	8.73	359.56	10,194.0	-194.5	22.0	-194.6	12.00	12.00	0.00
10,300.0	20.73	359.56	10,290.5	-169.1	21.8	-169.2	12.00	12.00	0.00
10,400.0	32.72	359.56	10,379.7	-124.2	21.4	-124.3	12.00	12.00	0.00
10,500.0	44.72	359.56	10,457.5	-61.8	20.9	-61.9	12.00	12.00	0.00
10,600.0	56.72	359.56	10,520.7	15.5	20.4	15.4	12.00	12.00	0.00
10,700.0	68.72	359.56	10,566.5	104.2	19.7	104.1	12.00	12.00	0.00
10,716.8	70.74	359.56	10,572.3	120.0	19.6	119.9	12.00	12.00	0.00
<b>FTP: 2315' FNL &amp; 1980' FEL, Sec 9</b>									
10,800.0	80.72	359.56	10,592.8	200.5	19.0	200.4	12.00	12.00	0.00
10,883.0	90.68	359.56	10,599.0	283.2	18.3	283.1	11.99	11.99	0.00
<b>LP: 2152' FNL &amp; 1980' FEL, Sec 9</b>									
10,900.0	90.68	359.56	10,598.8	300.2	18.2	300.1	0.00	0.00	0.00
11,000.0	90.68	359.56	10,597.6	400.1	17.4	400.1	0.00	0.00	0.00
11,100.0	90.68	359.56	10,596.4	500.1	16.7	500.0	0.00	0.00	0.00
11,200.0	90.68	359.56	10,595.2	600.1	15.9	600.0	0.00	0.00	0.00
11,300.0	90.68	359.56	10,594.0	700.1	15.1	700.0	0.00	0.00	0.00
11,400.0	90.68	359.56	10,592.8	800.1	14.4	800.0	0.00	0.00	0.00
11,500.0	90.68	359.56	10,591.7	900.1	13.6	900.0	0.00	0.00	0.00
11,600.0	90.68	359.56	10,590.5	1,000.1	12.9	1,000.0	0.00	0.00	0.00
11,700.0	90.68	359.56	10,589.3	1,100.1	12.1	1,100.0	0.00	0.00	0.00
11,800.0	90.68	359.56	10,588.1	1,200.1	11.3	1,200.0	0.00	0.00	0.00
11,900.0	90.68	359.56	10,586.9	1,300.1	10.6	1,300.0	0.00	0.00	0.00
12,000.0	90.68	359.56	10,585.7	1,400.0	9.8	1,400.0	0.00	0.00	0.00
12,100.0	90.68	359.56	10,584.5	1,500.0	9.1	1,500.0	0.00	0.00	0.00
12,200.0	90.68	359.56	10,583.3	1,600.0	8.3	1,600.0	0.00	0.00	0.00
12,300.0	90.68	359.56	10,582.1	1,700.0	7.5	1,700.0	0.00	0.00	0.00
12,400.0	90.68	359.56	10,580.9	1,800.0	6.8	1,800.0	0.00	0.00	0.00
12,500.0	90.68	359.56	10,579.7	1,900.0	6.0	1,899.9	0.00	0.00	0.00
12,600.0	90.68	359.56	10,578.5	2,000.0	5.3	1,999.9	0.00	0.00	0.00
12,700.0	90.68	359.56	10,577.4	2,100.0	4.5	2,099.9	0.00	0.00	0.00
12,800.0	90.68	359.56	10,576.2	2,200.0	3.7	2,199.9	0.00	0.00	0.00
12,900.0	90.68	359.56	10,575.0	2,300.0	3.0	2,299.9	0.00	0.00	0.00
13,000.0	90.68	359.56	10,573.8	2,399.9	2.2	2,399.9	0.00	0.00	0.00
13,035.1	90.68	359.56	10,573.4	2,435.0	1.9	2,435.0	0.00	0.00	0.00
<b>PPP2: 0' FSL &amp; 1980' FEL, Sec 4</b>									
13,100.0	90.68	359.56	10,572.6	2,499.9	1.4	2,499.9	0.00	0.00	0.00
13,200.0	90.68	359.56	10,571.4	2,599.9	0.7	2,599.9	0.00	0.00	0.00
13,300.0	90.68	359.56	10,570.2	2,699.9	-0.1	2,699.9	0.00	0.00	0.00
13,400.0	90.68	359.56	10,569.0	2,799.9	-0.8	2,799.9	0.00	0.00	0.00
13,500.0	90.68	359.56	10,567.8	2,899.9	-1.6	2,899.9	0.00	0.00	0.00
13,600.0	90.68	359.56	10,566.6	2,999.9	-2.4	2,999.9	0.00	0.00	0.00
13,700.0	90.68	359.56	10,565.4	3,099.9	-3.1	3,099.9	0.00	0.00	0.00
13,800.0	90.68	359.56	10,564.3	3,199.9	-3.9	3,199.8	0.00	0.00	0.00
13,900.0	90.68	359.56	10,563.1	3,299.9	-4.6	3,299.8	0.00	0.00	0.00
14,000.0	90.68	359.56	10,561.9	3,399.8	-5.4	3,399.8	0.00	0.00	0.00
14,100.0	90.68	359.56	10,560.7	3,499.8	-6.2	3,499.8	0.00	0.00	0.00
14,200.0	90.68	359.56	10,559.5	3,599.8	-6.9	3,599.8	0.00	0.00	0.00
14,300.0	90.68	359.56	10,558.3	3,699.8	-7.7	3,699.8	0.00	0.00	0.00
14,400.0	90.68	359.56	10,557.1	3,799.8	-8.5	3,799.8	0.00	0.00	0.00
14,500.0	90.68	359.56	10,555.9	3,899.8	-9.2	3,899.8	0.00	0.00	0.00
14,600.0	90.68	359.56	10,554.7	3,999.8	-10.0	3,999.8	0.00	0.00	0.00
14,700.0	90.68	359.56	10,553.5	4,099.8	-10.7	4,099.8	0.00	0.00	0.00

# Planning Report

**Database:** Hobbs  
**Company:** Mewbourne Oil Company  
**Project:** Lea County, New Mexico NAD 83  
**Site:** Sand Chute 9/4 B2GB Fed Com #1H  
**Well:** Sec 9, T20S, R35E  
**Wellbore:** BHL: 330' FNL & 1980' FEL, Sec 4  
**Design:** Design #1

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

Site Sand Chute 9/4 B2GB 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	90.68	359.56	10,552.3	4,199.8	-11.5	4,199.8	0.00	0.00	0.00
14,900.0	90.68	359.56	10,551.1	4,299.8	-12.3	4,299.8	0.00	0.00	0.00
15,000.0	90.68	359.56	10,550.0	4,399.7	-13.0	4,399.8	0.00	0.00	0.00
15,100.0	90.68	359.56	10,548.8	4,499.7	-13.8	4,499.7	0.00	0.00	0.00
15,200.0	90.68	359.56	10,547.6	4,599.7	-14.5	4,599.7	0.00	0.00	0.00
15,300.0	90.68	359.56	10,546.4	4,699.7	-15.3	4,699.7	0.00	0.00	0.00
15,400.0	90.68	359.56	10,545.2	4,799.7	-16.1	4,799.7	0.00	0.00	0.00
15,500.0	90.68	359.56	10,544.0	4,899.7	-16.8	4,899.7	0.00	0.00	0.00
15,600.0	90.68	359.56	10,542.8	4,999.7	-17.6	4,999.7	0.00	0.00	0.00
15,700.0	90.68	359.56	10,541.6	5,099.7	-18.3	5,099.7	0.00	0.00	0.00
15,800.0	90.68	359.56	10,540.4	5,199.7	-19.1	5,199.7	0.00	0.00	0.00
15,900.0	90.68	359.56	10,539.2	5,299.7	-19.9	5,299.7	0.00	0.00	0.00
16,000.0	90.68	359.56	10,538.0	5,399.6	-20.6	5,399.7	0.00	0.00	0.00
16,100.0	90.68	359.56	10,536.9	5,499.6	-21.4	5,499.7	0.00	0.00	0.00
16,200.0	90.68	359.56	10,535.7	5,599.6	-22.2	5,599.7	0.00	0.00	0.00
16,300.0	90.68	359.56	10,534.5	5,699.6	-22.9	5,699.7	0.00	0.00	0.00
16,400.0	90.68	359.56	10,533.3	5,799.6	-23.7	5,799.7	0.00	0.00	0.00
16,500.0	90.68	359.56	10,532.1	5,899.6	-24.4	5,899.6	0.00	0.00	0.00
16,600.0	90.68	359.56	10,530.9	5,999.6	-25.2	5,999.6	0.00	0.00	0.00
16,700.0	90.68	359.56	10,529.7	6,099.6	-26.0	6,099.6	0.00	0.00	0.00
16,800.0	90.68	359.56	10,528.5	6,199.6	-26.7	6,199.6	0.00	0.00	0.00
16,900.0	90.68	359.56	10,527.3	6,299.6	-27.5	6,299.6	0.00	0.00	0.00
17,000.0	90.68	359.56	10,526.1	6,399.5	-28.2	6,399.6	0.00	0.00	0.00
17,100.0	90.68	359.56	10,524.9	6,499.5	-29.0	6,499.6	0.00	0.00	0.00
17,200.0	90.68	359.56	10,523.8	6,599.5	-29.8	6,599.6	0.00	0.00	0.00
17,300.0	90.68	359.56	10,522.6	6,699.5	-30.5	6,699.6	0.00	0.00	0.00
17,400.0	90.68	359.56	10,521.4	6,799.5	-31.3	6,799.6	0.00	0.00	0.00
17,500.0	90.68	359.56	10,520.2	6,899.5	-32.1	6,899.6	0.00	0.00	0.00
17,600.0	90.68	359.56	10,519.0	6,999.5	-32.8	6,999.6	0.00	0.00	0.00
17,700.0	90.68	359.56	10,517.8	7,099.5	-33.6	7,099.6	0.00	0.00	0.00
17,800.0	90.68	359.56	10,516.6	7,199.5	-34.3	7,199.5	0.00	0.00	0.00
17,900.0	90.68	359.56	10,515.4	7,299.5	-35.1	7,299.5	0.00	0.00	0.00
18,000.0	90.68	359.56	10,514.2	7,399.4	-35.9	7,399.5	0.00	0.00	0.00
18,018.6	90.68	359.56	10,514.0	7,418.0	-36.0	7,418.1	0.00	0.00	0.00

BHL: 330' FNL & 1980' FEL, Sec 4

# Planning Report

**Database:** Hobbs  
**Company:** Mewbourne Oil Company  
**Project:** Lea County, New Mexico NAD 83  
**Site:** Sand Chute 9/4 B2GB Fed Com #1H  
**Well:** Sec 9, T20S, R35E  
**Wellbore:** BHL: 330' FNL & 1980' FEL, Sec 4  
**Design:** Design #1

**Local Co-ordinate Reference:** Site Sand Chute 9/4 B2GB 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 & 2000' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	578,860.00	810,252.00	32.5883059	-103.4602271
KOP @ 10,122' - plan hits target center - Point	0.00	0.00	10,121.5	-200.0	22.0	578,660.00	810,274.00	32.5877557	-103.4601611
BHL: 330' FNL & 1980' F - plan hits target center - Point	0.00	0.00	10,514.0	7,418.0	-36.0	586,278.00	810,216.00	32.6086945	-103.4601463
FTP: 2315' FNL & 1980' - plan hits target center - Point	0.00	0.00	10,572.3	120.0	19.6	578,980.00	810,271.56	32.5886353	-103.4601604
PPP2: 0' FSL & 1980' FE - plan hits target center - Point	0.00	0.00	10,573.4	2,435.0	1.9	581,295.00	810,253.94	32.5949983	-103.4601560
LP: 2152' FNL & 1980' F - plan hits target center - Point	0.00	0.00	10,599.0	283.2	18.3	579,143.20	810,270.30	32.5890838	-103.4601602