

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

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

CASE NO. 22368

EXHIBIT INDEX

Compulsory Pooling Checklist

Exhibit A Self-Affirmed Statement of Brad Dunn

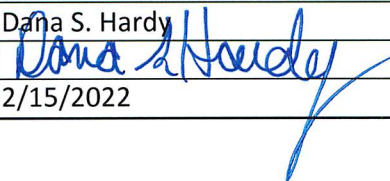
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|-----|--|
| A-1 | Application & Proposed Notice of Hearing |
| A-2 | C-102(s) |
| A-3 | Plat of Tracts, Ownership Interests, Pooled Parties, Unit Recapitulation |
| A-4 | Sample Well Proposal Letter & AFE(s) |
| A-5 | Summary of Communications |
| A-6 | Hearing Notice Letter and Return Receipts |
| A-7 | Affidavit of Publication |

Exhibit B Self-Affirmed Statement of Charles Crosby

- | | |
|-----|-------------------------------|
| B-1 | Location Map |
| B-2 | Structure Map |
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COMPULSORY POOLING APPLICATION CHECKLIST**ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS**

Case No.:	22368
Hearing Date:	2/17/2022
Applicant	Mewbourne Oil Company
Designated Operator & OGRID	OGRID # 14744
Applicant's Counsel	Hinkle Shanor LLP
Case Title	Application of Mewbourne Oil Company for Compulsory Pooling, Lea County, New Mexico
Entries of Appearance/Intervenors	COG Operating LLC; Concho Oil & Gas LLC; MRC permian Company
Well Family	Dragonstone
Formation/Pool	
Formation Name(s) or Vertical Extent	Bone Spring
Primary Product (Oil or Gas)	Oil
Pooling this vertical extent	Bone Spring
Pool Name and Pool Code	Young; Bone Spring-North Pool (63350)
Well Location Setback Rules	Statewide
Spacing Unit Size	240-acre
Spacing Unit	
Type (Horizontal/Vertical)	Horizontal
Size (Acres)	240-acre
Building Blocks	quarter-quarter
Orientation	Standup
Description: TRS/County	W/2E/2 of Section 11 and W/2SE/4 of Section 2, Township 18 South, Range 32 East, Lea County, New Mexico
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes
Other Situations	
Depth Severance: Y/N. If yes, description	No
Proximity Tracts: If yes, description	No
Proximity Defining Well: if yes, description	N/A
Well(s)	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)	Add wells as needed
Well #1	Dragonstone 11/2 B2OJ Fed Com #1 (API # pending) SHL: 405' FNL & 660' FEL (Unit A), Section 14, T18S-R32E BHL: 2540' FSL & 1815' FEL (Unit J), Section 2, T18S-R32E Completion Target: Bone Spring formation (Approx. 9279' TVD)
Horizontal Well First and Last Take Points	Exhibit A-2
Completion Target (Formation, TVD and MD)	Exhibit A-4
AFE Capex and Operating Costs	
Drilling Supervision/Month \$	8000
Production Supervision/Month \$	800
Justification for Supervision Costs	Exhibit A
Requested Risk Charge	200%
Notice of Hearing	
Proposed Notice of Hearing	Exhibit A-1
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit A-6

Ownership Determination	
Land Ownership Schematic of Spacing Unit	Exhibit A-3
Tract List (including lease numbers & owners)	Exhibit A-3
Pooled Parties (including ownership type)	Exhibit A-3
Unlocatable Parties to be Pooled	Exhibit A-3
Ownership Depth Severance	N/A
Joinder	
Sample Copy of Proposal Letter	Exhibit A-4
List of Interest Owners (ie Exhibit A of JOA)	Exhibit A-3
Chronology of Contact with Non-Joined Working Interests	Exhibit A-5
Overhead Rates In Proposal Letter	Exhibit A-4
Cost Estimate to Drill and Complete	Exhibit A-4
Cost Estimate to Equip Well	Exhibit A-4
Cost Estimate for Production Facilities	Exhibit A-4
Geology	
Summary (including special considerations)	Exhibit B
Spacing Unit Schematic	Exhibit B-1
Gunbarrel/Lateral Trajectory Schematic	N/A
Well Orientation (with rationale)	Exhibit B
Target Formation	Exhibit B
HSU Cross Section	Exhibit B-3
Depth Severance Discussion	N/A
Forms, Figures and Tables	
C-102	Exhibit A-2
Tracts	Exhibit A-3
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit A-3
General Location Map (including basin)	Exhibit B-1
Well Bore Location Map	Exhibit B-1
Structure Contour Map - Subsea Depth	Exhibit B-2
Cross Section Location Map (including wells)	Exhibit B-2
Cross Section (including Landing Zone)	Exhibit B-3
Additional Information	
CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.	
Printed Name (Attorney or Party Representative):	Dana S. Hardy
Signed Name (Attorney or Party Representative):	
Date:	2/15/2022

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

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

CASE NO. 22368

**SELF-AFFIRMED STATEMENT
OF BRAD DUNN**

1. I am a landman at Mewbourne Oil Company ("MOC") and am over 18 years of age. I have personal knowledge of the matters addressed herein and am competent to provide this Self-Affirmed Statement. I have previously testified before the New Mexico Oil Conservation Division ("Division") and my credentials as an expert in petroleum land matters were accepted and made a matter of record.

2. I am familiar with the land matters involved in the above-referenced case. Copies of MOC's application and proposed hearing notice are attached as **Exhibit A-1**.

3. None of the parties proposed to be pooled in this case indicated opposition to this matter proceeding by affidavit, therefore I do not expect any opposition at hearing.

4. MOC seeks an order pooling all uncommitted interests in the Young; Bone Spring-North Pool (Code 63350) within the Bone Spring formation underlying a 240-acre, more or less, standard horizontal spacing unit comprised of the W/2E/2 of Section 11 and W/2SE/4 of Section 2, Township 18 South, Range 32 East, Lea County, New Mexico ("Unit").

5. The Unit will be dedicated to the **Dragonstone 11/2 B2OJ Fed Com #1** well ("Well") to be horizontally drilled from a surface hole location in the NE/4NE/4 (Unit A) of Section 14 to a bottom hole location in the NW/4SE/4 (Unit J) of Section 2.

6. The completed interval of the Well will be orthodox.

7. **Exhibit A-2** contains the C-102 for the Well.

MEWBOURNE OIL CO.

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Exhibit A

8. **Exhibit A-3** contains a plat identifying ownership by tract in the Unit. This exhibit also includes any applicable lease numbers, a unit recapitulation, and the interests MOC seeks to pool highlighted in yellow.

9. **Exhibit A-4** contains a sample well proposal letter and AFEs sent to working interest owners for the Well. The estimated costs reflected on the AFE are fair and reasonable and comparable to the cost of other wells of similar depth and length drilled in the subject formation in the area.

10. MOC has conducted a diligent search of all county public records including phone directories and computer databases.

11. All interest owners MOC seeks to pool are locatable.

12. In my opinion, MOC made a good-faith effort to reach voluntary joinder of uncommitted interests in the Well as indicated by the chronology of contact described in **Exhibit A-5**.

13. MOC requests overhead and administrative rates of \$8,000 per month while the Well is being drilled and \$800 per month while the Well is producing. These rates are fair and are comparable to the rates charged by MOC and other operators in the vicinity.

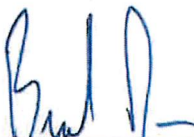
14. Notice of this application and the Division hearing was timely provided to the uncommitted interests by certified mail more than 20 days prior to the hearing date. A sample of the notice letters and associated green cards are attached as **Exhibit A-6**.

15. Notice of this application and the Division hearing was published more than ten business days prior to the hearing date. The affidavit of publication is attached as **Exhibit A-7**.

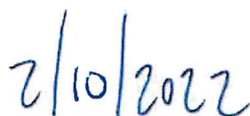
16. The attached exhibits attached were either prepared by me or under my supervision or were compiled from company business records.

17. In my opinion, the granting of MOC's application would serve the interests of conservation, the protection of correlative rights, and the prevention of waste.

18. I understand this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony in paragraphs 1 through 17 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.



Brad Dunn



Date

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

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

CASE NO. 22368

APPLICATION

Pursuant to NMSA § 70-2-17, Mewbourne Oil Company ("Applicant") (OGRID No. 14744) applies for an order pooling all uncommitted interests within the Bone Spring formation underlying a 240-acre, more or less, standard horizontal spacing unit comprised of the W/2E/2 of Section 11 and W/2SE/4 of Section 2, Township 18 South, Range 32 East, Lea County, New Mexico ("Unit"). In support of its application, Applicant states:

1. Applicant is a working interest owner in the Unit and has the right to drill wells thereon.
2. The Unit will be dedicated to the **Dragonstone 11/2 B2OJ Fed Com #1** well to be horizontally drilled from a surface hole location in the NE/4NE/4 (Unit A) of Section 14 to a bottom hole location in the NW/4SE/4 (Unit J) of Section 2.
3. The completed interval of the Well will be orthodox.
4. Applicant has undertaken diligent, good-faith efforts to obtain voluntary agreements from all interest owners to participate in the drilling of the Well but has been unable to obtain voluntary agreements from all of the interest owners.
5. The pooling of uncommitted interests will avoid the drilling of unnecessary wells, prevent waste, and protect correlative rights.

MEWBOURNE OIL CO.

Case No. 22368

Exhibit A-1

6. In order to allow Applicant to obtain its just and fair share of the oil and gas underlying the subject lands, all uncommitted mineral interests in the Unit should be pooled and Applicant should be designated the operator of the Well and Unit.

WHEREFORE, Applicant requests this application be set for hearing on January 6, 2022, and that after notice and hearing, the Division enter an order:

- A. Pooling all uncommitted interests in the Unit;
- B. Approving the Well in the Unit;
- C. Designating Applicant as operator of the Unit and the Well to be drilled thereon;
- D. Authorizing Applicant to recover its costs of drilling, equipping and completing the Well;
- E. Approving the actual operating charges and costs of supervision while drilling and after completion, together with a provision adjusting the rates pursuant to the COPAS accounting procedures; and
- F. Imposing a 200% penalty for the risk assumed by Applicant in drilling and completing the Well against any working interest owner who does not voluntarily participate in the drilling of the Well.

Respectfully submitted,

HINKLE SHANOR LLP

/s/ Dana S. Hardy

Dana S. Hardy

Michael Rodriguez

P.O. Box 2068

Santa Fe, NM 87504-2068

Phone: (505) 982-4554

dhardy@hinklelawfirm.com

mrodriguez@hinklelawfirm.com

Counsel for Mewbourne Oil Company

Application of Mewbourne Oil Company for Compulsory Pooling, Lea County, New Mexico. Applicant applies for an order pooling all uncommitted interests within the Bone Spring formation underlying a 240-acre, more or less, standard horizontal spacing unit comprised of the W/2E/2 of Section 11 and W/2SE/4 of Section 2, Township 18 South, Range 32 East, Lea County, New Mexico ("Unit"). The Unit will be dedicated to the Dragonstone 11/2 B2OJ Fed Com #1 well to be horizontally drilled from a surface hole location in the NE/4NE/4 (Unit A) of Section 14 to a bottom hole location in the NW/4SE/4 (Unit J) of Section 2. Also, to be considered will be the cost of drilling and completing the Well and the allocation of the costs, the designation of Applicant as the operator of the Well, and a 200% charge for the risk involved in drilling and completing the Well. The Well is located approximately 25 miles southwest of Carlsbad, New Mexico.

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

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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name DRAGONSTONE 11/2 B20J FED COM		⁶ Well Number 1H
⁷ OGRID NO.	⁸ Operator Name MEWBOURNE OIL COMPANY		⁹ Elevation 3835'

¹⁰ Surface Location

UL or lot no. A	Section 14	Township 18S	Range 32E	Lot Idn	Feet from the 405	North/South line NORTH	Feet From the 660	East/West line EAST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. J	Section 2	Township 18S	Range 32E	Lot Idn	Feet from the 2540	North/South line SOUTH	Feet from the 1815	East/West line EAST	County LEA
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¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

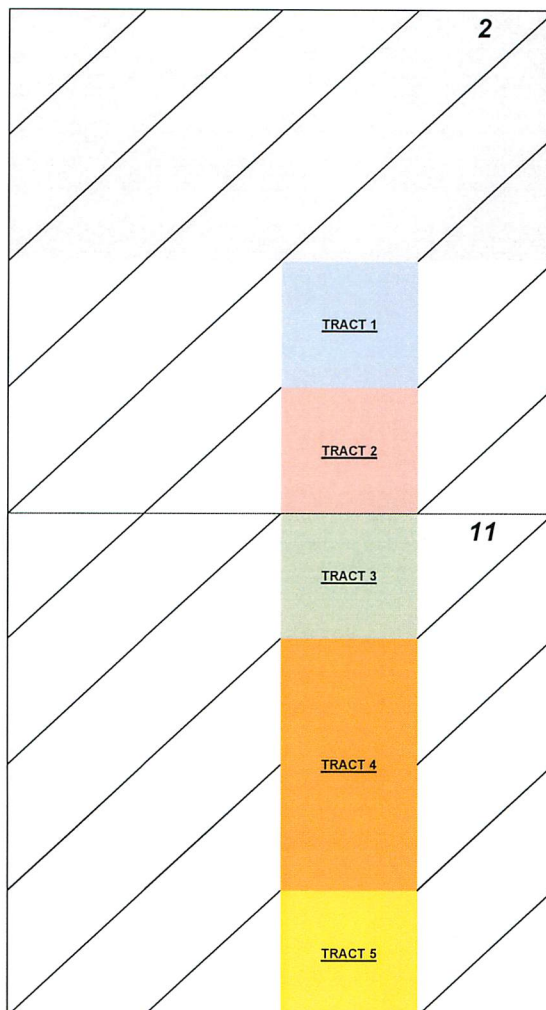
¹⁶ <u>GEODETIC DATA</u> NAD 83 GRID - NM EAST <u>SURFACE LOCATION</u> N: 638424.4 - E: 726645.4 LAT: 32.7536151° N LONG: 103.7305654° W <u>BOTTOM HOLE</u> N: 646645.0 - E: 725436.7 LAT: 32.7762283° N LONG: 103.7343456° W <u>CORNER DATA</u> NAD 83 GRID - NM EAST A: FOUND BRASS CAP "1913" N: 633523.6 - E: 722046.9 B: FOUND BRASS CAP "1913" N: 636163.4 - E: 722027.9 C: FOUND 1/2" REBAR N: 638799.9 - E: 722009.4 D: FOUND BRASS CAP "1913" N: 641443.1 - E: 721992.3 E: FOUND 1" PIPE N: 644082.8 - E: 721974.3 F: FOUND BRASS CAP "1913" N: 646722.0 - E: 721963.3 G: FOUND BRASS CAP "1913" N: 649383.2 - E: 721951.4 H: FOUND BRASS CAP "1913" N: 649391.8 - E: 724589.2 I: FOUND BRASS CAP "1913" N: 649400.8 - E: 727230.8 J: FOUND 1" PIPE N: 646756.9 - E: 727250.3 K: FOUND BRASS CAP "1913" N: 644117.6 - E: 727273.3 L: FOUND BRASS CAP "1913" N: 641474.3 - E: 727287.2 M: FOUND BRASS CAP "1913" N: 638833.4 - E: 727302.8 N: FOUND BRASS CAP "1913" N: 636191.1 - E: 727318.8 O: FOUND BRASS CAP "1913" N: 633551.4 - E: 727335.2 P: FOUND BRASS CAP "1913" N: 633538.2 - E: 724690.8 Q: FOUND BRASS CAP "1913" N: 638816.7 - E: 724653.3 R: FOUND BRASS CAP "1913" N: 644099.9 - E: 724622.7	<u>17 OPERATOR CERTIFICATION</u> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ E-mail Address _____
	<u>18 SURVEYOR CERTIFICATION</u> I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 06-11-2021 Date of Survey Signature and Seal of Professional Surveyor _____ 19680 Certificate Number REV: BH MOVE - 9/27/21
	MEWBOURNE OIL CO. Case No. 22368
	Job No.: LS21060587R1

SECTION PLAT

West Half of the East Half (W/2E/2) of Section 11, Township 18 South, Range 32 East

West Half of the Southeast Quarter (W/2SE/4) of Section 2, Township 18 South, Range 32 East

County of Lea, State of New Mexico



Tract 1: NW4SE4 SEC. 2—STATE OF NEW MEXICO LEASE NO. LG-6977

Mewbourne Oil Company

OXY U.S.A. WTP Limited Partnership

Tract 2: SW4SE4 SEC. 2— STATE OF NEW MEXICO LEASE NO. LG-1784

Spiral, Inc.

EXPLORERS PETROLEUM CORP

MEWBOURNE OIL CO.

Case Nos. 22368

Exhibit A-3

LAURELIND CORPORATION
WINCHESTER ENERGY, LLC
MRC DELAWARE RESOURCES LLC
OXY U.S.A. WTP Limited Partnership

Tract 3: NW4NE4 SEC. 11—FEDERAL LEASE NO. NMNM-69371

BTA OIL PRODUCERS, LLC

Tract 4: SW4NE4 & NW4SE4 SEC. 11—FEDERAL LEASE NO. NMNM-126064

Mewbourne Oil Company

Tract 5: SW4SE4—FEDERAL LEASE NO. NMNM-94191

Mewbourne Oil Company
JO ANN WALKER, TRUSTEE
JO ANN WALKER, SOLE AND SEPARATE PROPERTY
HORSESHOE OPERATING, INC.
O.H.B. INC
Jack Huff Energy Ltd.
COG Operating LLC

TRACT OWNERSHIP
Dragonstone 11/2 B2OJ FED COM #1H
Sections 11 (W/2E/2) & 2 (W/2SE/4), T18S, R32E
Lea County, New Mexico

Sections 11 (W/2E/2) & 2 (W/2SE/4)

Bone Spring formation:

	<u>% Leasehold Interest</u>
Mewbourne Oil Company, et al 500 West Texas, Ste. 1020 Midland, Texas 79701	59.501867%
*BTA Oil Producers 104 South Pecos Midland, TX 79701	16.666667%
*OXY USA WTP Limited Partnership 810 Houston Street Fort Worth, Texas 76102	13.200000%
*MRC DELAWARE RESOURCES LLC One Lincoln Centre 5400 LBJ Freeway, SUITE 1500 Dallas, TX 75240	7.666667%
*Spiral, Inc. P.O. Box 1933 Roswell, NM 88201	0.950000%
*Explorers Petroleum Corp P.O. Box 1933 Roswell, NM 88201	0.850000%
*LAURELIND CORPORATION P.O. Box 2143 Roswell, NM 88201	0.583333%
*Winchester Energy, LLC P.O. Box 13540 Oklahoma City, OK 73113	0.366667%
*COG Operating LLC 600 W. Illinois Avenue Midland, Texas 79701	0.214800%
	100.000000%

*** Total interest being pooled: 40.498133%**

OWNERSHIP BY TRACTNW/4SE/4 Section 2 (40 Acres):

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

% Leasehold Interest
25.000000%

*OXY USA WTP Limited Partnership
810 Houston Street
Fort Worth, Texas 76102

75.000000%

100.000000%

SW/4SE/4 Section 2 (40 Acres):

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

% Leasehold Interest
33.333333%

*MRC DELAWARE RESOURCES LLC
One Lincoln Centre
5400 LBJ Freeway, SUITE 1500
Dallas, TX 75240

46.000000%

*Spiral, Inc.
P.O. Box 1933
Roswell, NM 88201

5.700000%

*Explorers Petroleum Corp
P.O. Box 1933
Roswell, NM 88201

5.100000%

*OXY USA WTP Limited Partnership
810 Houston Street
Fort Worth, Texas 76102

4.200000%

*LAURELIND CORPORATION
P.O. Box 2143
Roswell, NM 88201

3.500000%

*Winchester Energy, LLC
P.O. Box 13540
Oklahoma City, OK 73113

2.200000%

100.000000%

NW/4NE/4 Section 11 (40 Acres):

*BTA Oil Producers
104 South Pecos
Midland, TX 79701

% Leasehold Interest
100.000000%

100.000000%

SW/4NE/4 & NW/4SE/4 Section 11 (80 Acres):

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

% Leasehold Interest
100.000000%

100.000000%

SW/4SE/4 Section 11 (40 Acres):

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

% Leasehold Interest
98.71198%

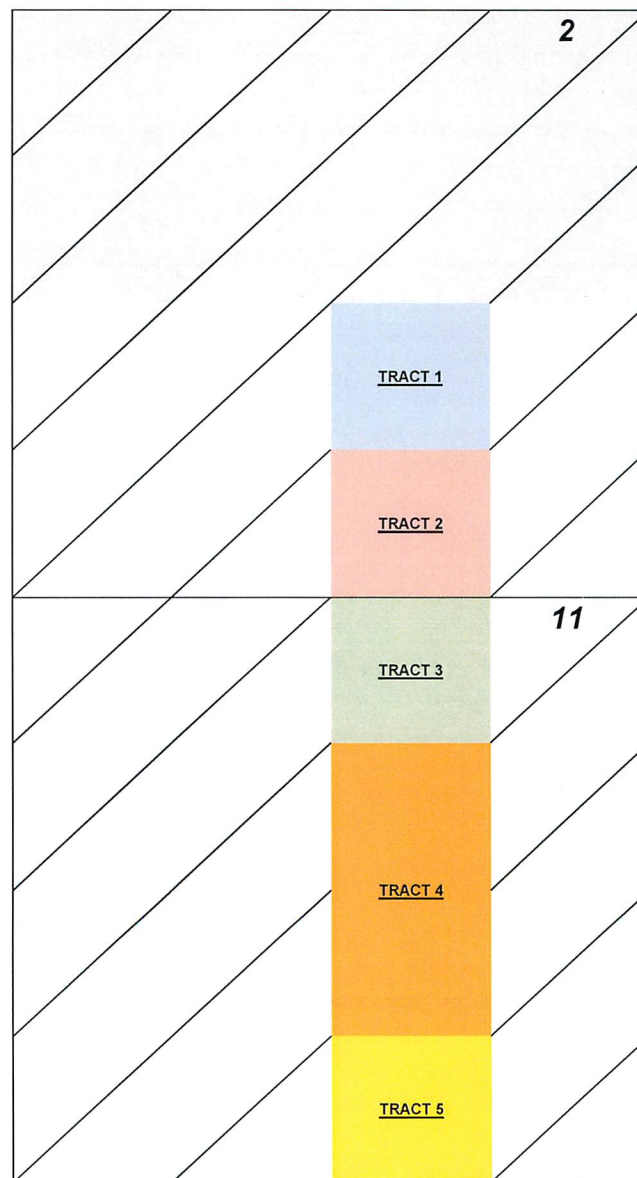
*COG Operating LLC
600 W. Illinois Avenue
Midland, Texas 79701

1.288802%

100.000000%

RECAPITULATION FOR DRAGONSTONE 11-2 B2OJ FED COM #1H

Tract Number	Number of Acres Committed	Percentage of Interest In Communitized Area
1	40.00	16.666667%
2	40.00	16.666667%
3	40.00	16.666667%
4	80.00	33.333333%
5	40.00	16.666666%
TOTAL	240.00	100.000000%



MEWBOURNE OIL COMPANY

FASKEN CENTER
500 WEST TEXAS, SUITE 1020
MIDLAND, TX 79701
TELEPHONE (432) 682-3715

August 12, 2021

Via Certified Mail

HORSESHOE OPERATING, INC.
110 W. Louisiana Ave.
Midland, TX 79701
Attn: Permian Land Manager

Re:

1. Dragonstone 11/2 B2PI Fed Com #1H AFE, E2E2 Section 11 & E2SE4 Sec. 2, T18S, R32E, Lea County, New Mexico
2. Dragonstone 11/2 B2OJ Fed Com #1H AFE, W2E2 Section 11 & W2SE4 Sec. 2, T18S, R32E, Lea County, New Mexico
3. Dragonstone 11/2 B2NK Fed Com #1H AFE, E2W2 Section 11 & E2SW4 Sec. 2, T18S, R32E, Lea County, New Mexico
4. Dragonstone 11/2 B2ML Fed Com #1H AFE, W2W2 Section 11 & W2SW4 Sec. 2, T18S, R32E, Lea County, New Mexico
5. Dragonstone 11/2 Joint Operating Agreement dated August 15, 2021
All of Sec. 11, T18S, R32E
S2 of Sec. 2, T18S, R32E
Lea County, New Mexico

Ladies and Gentlemen:

Mewbourne Oil Company ("Mewbourne") as Operator hereby proposes to form a 960.00 acre Working Interest Unit ("WIU") covering All of the above captioned Section 11 and the S/2 of the above captioned Section 2 for oil and gas production. The targeted interval for the proposed unit is the Bone Spring Formation. Mewbourne as Operator hereby proposes to drill the following horizontal Bone Spring wells:

1. Dragonstone 11/2 B2PI Fed Com #1H will have a surface location 405' FNL & 630' FEL of Section 14 and a bottom hole location approximately 2540' FSL & 495' FEL of the above captioned Section 2. We anticipate drilling to an approximate total vertical depth of 9,277' and an approximate total measured depth of 17,274'. The E2E2 of Section 11 & E2SE4 of Sec. 2 will be dedicated to the well as the proration unit.
2. Dragonstone 11/2 B2OJ Fed Com #1H will have a surface location 405' FNL & 660' FEL of Section 14 and a bottom hole location approximately 2540' FSL & 1815' FEL of the above captioned Section 2. We anticipate drilling to an approximate total vertical depth of 9,279' and an approximate total measured depth of 17,359'. The W2E2 of Section 11 & W2SE4 of Sec. 2 will be dedicated to the well as the proration unit.

MEWBOURNE OIL CO.

Case No. 22368

Exhibit A-4

3. Dragonstone 11/2 B2NK Fed Com #1H will have a surface location 300' FSL & 1180' FWL of the above captioned Section 11 and a bottom hole location approximately 2540' FSL & 1815' FWL of the above captioned Section 2. We anticipate drilling to an approximate total vertical depth of 9,117' and an approximate total measured depth of 16,438'. The E2W2 of Section 11 & E2SW4 of Sec. 2 will be dedicated to the well as the proration unit.
4. Dragonstone 11/2 B2ML Fed Com #1H will have a surface location 300' FSL & 1150' FWL of the above captioned Section 11 and a bottom hole location approximately 2540' FSL & 495' FWL of the above captioned Section 2. We anticipate drilling to an approximate total vertical depth of 9,102' and an approximate total measured depth of 16,425'. The W2W2 of Section 11 & W2SW4 of Sec. 2 will be dedicated to the well as the proration unit.

Regarding the above, enclosed for your further handling are our AFEs for the captioned proposed wells. In the event your firm elects to participate in the proposed wells, please execute the enclosed AFEs and return them to me within thirty (30) days.

Additionally, enclosed for your further handling is the Operating Agreement dated August 15, 2021, by and between Mewbourne Oil Company as Operator and OXY USA WTP Limited Partnership, et al, as Non-Operators and one (1) set of signature pages (6 total signature pages) for your execution. Our proposed Operating Agreement will have COPAS rates of \$8,000/month while drilling, \$800/month for a producing well and a non-consent penalty of 100%/300%. Upon your review and approval, please return only the executed set of signature pages to my attention at the above letterhead address.

Should you have any questions regarding the above, please email me at bdunn@mewbourne.com or call me at (432) 682-3715. Thank you.

Sincerely,

MEWBOURNE OIL COMPANY



Brad Dunn
Petroleum Landman

MEWBOURNE OIL COMPANY

AUTHORIZATION FOR EXPENDITURE

Well Name: Dragonstone 11/2 B20J Fed Com #1H		Prospect: 	
Location: SL: 405' FNL & 660' FEL (14); BHL: 2540' FSL & 1815' FEL (2)		County: Eddy ST: NM	
Sec. 11&2	BLK: 	Survey: 	TWP: 18S RNG: 32E Prop. TVD: 9279 TMD: 17359

INTANGIBLE COSTS 0180		CODE	TCP	CODE	CC
Regulatory Permits & Surveys		0180-0100	\$20,000	0180-0200	
Location / Road / Site / Preparation		0180-0105	\$35,000	0180-0205	\$35,000
Location / Restoration		0180-0106	\$200,000	0180-0206	\$75,000
Daywork / Turnkey / Footage Drilling	24 days drlg / 3 days comp @ \$19500/d	0180-0110	\$499,800	0180-0210	\$62,500
Fuel	1700 gal/day @ \$3.0/gal	0180-0114	\$130,700	0180-0214	\$264,000
Alternate Fuels		0180-0115		0180-0215	
Mud, Chemical & Additives		0180-0120	\$65,000	0180-0220	
Mud - Specialized		0180-0121	\$105,000	0180-0221	
Horizontal Drillout Services				0180-0222	\$150,000
Stimulation Toe Preparation				0180-0223	\$25,000
Cementing		0180-0125	\$80,000	0180-0225	\$30,000
Logging & Wireline Services		0180-0130	\$2,300	0180-0230	\$273,000
Casing / Tubing / Snubbing Services		0180-0134	\$25,000	0180-0234	\$12,000
Mud Logging		0180-0137	\$30,000		
Stimulation	44 Stg 14.5 MM gal / 14.5 MM lb			0180-0241	\$1,226,700
Stimulation Rentals & Other				0180-0242	\$150,000
Water & Other		0180-0145	\$40,000	0180-0245	\$173,000
Bits		0180-0148	\$74,800	0180-0248	
Inspection & Repair Services		0180-0150	\$50,000	0180-0250	\$5,000
Misc. Air & Pumping Services		0180-0154		0180-0254	\$10,000
Testing & Flowback Services		0180-0158	\$12,000	0180-0258	\$24,000
Completion / Workover Rig				0180-0260	\$10,500
Rig Mobilization		0180-0164	\$150,000		
Transportation		0180-0165	\$30,000	0180-0265	\$20,000
Welding, Construction & Maint. Services		0180-0168	\$4,000	0180-0268	\$15,000
Contract Services & Supervision		0180-0170	\$101,500	0180-0270	\$46,500
Directional Services	Includes Vertical Control	0180-0175	\$283,500		
Equipment Rental		0180-0180	\$191,400	0180-0280	\$12,500
Well / Lease Legal		0180-0184	\$5,000	0180-0284	
Well / Lease Insurance		0180-0185	\$4,800	0180-0285	
Intangible Supplies		0180-0188	\$7,000	0180-0288	\$1,000
Damages		0180-0190	\$10,000	0180-0290	\$10,000
Pipeline Interconnect, ROW Easements		0180-0192		0180-0292	\$5,000
Company Supervision		0180-0195	\$104,400	0180-0295	\$32,400
Overhead Fixed Rate		0180-0196	\$10,000	0180-0296	\$20,000
Contingencies	10% (TCP) 10% (CC)	0180-0199	\$227,100	0180-0299	\$268,800
TOTAL			\$2,498,300		\$2,956,900

TANGIBLE COSTS 0181		CODE	TCP	CODE	CC
Casing (19.1" - 30")		0181-0793			
Casing (10.1" - 19.0")	1300' - 13 3/8" 54.5# J-55 ST&C @ \$48/ft	0181-0794	\$71,200		
Casing (8.1" - 10.0")	4900' - 9 5/8" 40# HCL80 LT&C @ \$29/ft	0181-0795	\$162,100		
Casing (6.1" - 8.0")	9500' - 7" 29# HCP-110 LT&C @ \$28.5/ft	0181-0796	\$308,800		
Casing (4.1" - 6.0")	8800' - 4 1/2" 13.5# P-110 BPN @ \$15.5/ft			0181-0797	\$155,600
Tubing	8600' - 2 7/8" 6.5# L-80 Tbg @ \$13/ft			0181-0798	\$127,500
Drilling Head		0181-0860	\$35,000		
Tubing Head & Upper Section				0181-0870	\$30,000
Horizontal Completion Tools	Completion Liner Hanger			0181-0871	\$50,000
Subsurface Equip. & Artificial Lift				0181-0880	\$25,000
Pumping Unit Systems				0181-0885	
Service Pumps	(1/2) TP/CP/Circ pump			0181-0886	\$16,000
Storage Tanks	(1/2) 6 OT/5 WT/GB			0181-0890	\$169,300
Emissions Control Equipment	(1/2) VRT's/VRU/Flare/KO's			0181-0892	\$151,900
Separation / Treating Equipment	(1/2) H sep/V sep/HT			0181-0895	\$147,500
Automation Metering Equipment				0181-0898	\$75,000
Line Pipe & Valves - Gathering	(1/2) 1 mile gas & water			0181-0900	\$23,800
Fittings / Valves & Accessories				0181-0906	\$275,000
Cathodic Protection				0181-0908	\$7,500
Electrical Installation				0181-0909	\$137,500
Equipment Installation				0181-0910	\$150,000
Pipeline Construction	(1/2) 1 mile gas & water			0181-0920	\$70,000
TOTAL			\$577,100		\$1,611,600
SUBTOTAL			\$3,075,400		\$4,568,500
TOTAL WELL COST		\$7,643,900			

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: _____	Date: _____
Company Approval: _____	Date: _____
Joint Owner Interest: _____ Amount: _____	Signature: _____
Joint Owner Name: _____	

Summary of Communications
Dragonstone 11/2 B2OJ Fed Com #1H

BTA Oil Producers

- 1) 08/12/2021: Well proposal letter with AFEs & JOA are sent via certified mail.
- 2) 08/13/2021: Certified mail delivery confirmation to recipient.
- 3) 10/11/2021: Email & phone correspondence with Rex Barker discussing BTA's interest, the JOA, and a possible assignment of this interest to Mewbourne.
- 4) 10/14/2021: Email correspondence with Rex Barker regarding BTA's interest. BTA has indicated they won't make any decision with their interest until OXY has made a decision.
- 5) 02/10/2022: BTA has yet to make a decision or let me know what they would like to do with this interest.

OXY USA WTP Limited Partnership

- 6) 08/12/2021: Well proposal letter with AFEs & JOA are sent via certified mail.
- 7) 08/20/2021: Certified mail delivery confirmation to recipient.
- 8) 08/20/2021: Email correspondence with Clay Carroll discussing OXY's interest and the JOA.
- 9) 09/27/2021: Email correspondence with Clay Carroll discussing OXY's interest and the JOA.
- 10) 09/28/2021: Email correspondence with Hannah Eastwood discussing OXY's interest and the JOA. OXY informed me that an assignment as part of a larger farmout agreement is in the works which may end up applying to all of their interest within this unit.
- 11) 02/09/2022: Waiting on OXY assignment of their interest to be finalized.

MRC Delaware Resources LLC

- 1) 08/12/2021: Well proposal letter with AFEs & JOA are sent via certified mail.
- 2) 08/14/2021: Certified mail delivery confirmation to recipient.
- 3) 12/13/2021: Email and phone correspondence with David Johns at MRC Delaware discussing this interest, the development plan, and the JOA.
- 4) 12/28/2021: Email correspondence with David Johns discussing this interest. Mewbourne decides to grant MRC Delaware's request to a one-time continuance of the hearing to be rescheduled for February 17, 2022.
- 5) 1/11/2022: Technical meeting between several people at both Mewbourne and MRC Delaware Resources LLC discussing the development plans and Dragonstone Unit size. MRC says they are satisfied with the information provided to them by Mewbourne.
- 6) 02/09/2022: MRC Delaware Resources has yet to make a decision or let me know what they would like to do with this interest.

MEWBOURNE OIL CO.

Case No. 22368

Exhibit A-5

Spiral, Inc.

- 1) 08/12/2021: Well proposal letter with AFEs & JOA are sent via certified mail.
- 2) 08/24/2021: Email mail delivery confirmation to recipient.
- 3) 09/15/2021: Detailed search on the internet for a new address of this company/current contact information. Nothing more found.
- 4) 10/20/2021: Detailed search on the internet for a new address of this company/current contact information. Nothing more found.
- 5) 02/9/2022: Detailed search on the internet for a new address of this company/current contact information. Nothing more found.

Explorers Petroleum Corp.

- 1) 08/12/2021: Well proposal letter with AFEs & JOA are sent via certified mail.
- 2) 08/24/2021: Email mail delivery confirmation to recipient.
- 3) 09/15/2021: Detailed search on the internet for a new address of this company/current contact information. Nothing more found.
- 4) 10/20/2021: Detailed search on the internet for a new address of this company/current contact information. Nothing more found.
- 5) 02/9/2022: Detailed search on the internet for a new address of this company/current contact information. Nothing more found.

Laurelind Corporation

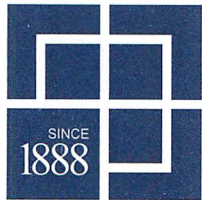
- 1) 08/12/2021: Well proposal letter with AFEs & JOA are sent via certified mail.
- 2) 08/22/2021: Certified mail packet returned to me due to that address no longer being valid.
- 3) 09/15/2021: Detailed search on the internet for a new address of this company/current contact information. Nothing more found.
- 4) 11/10/2021: Detailed search on the internet for a new address of this company/current contact information. Nothing more found.
- 5) 02/09/2022: Detailed search on the internet for a new address of this company/current contact information. Nothing more found.

Winchester Energy, LLC

- 1) 08/12/2021: Well proposal letter with AFEs & JOA are sent via certified mail.
- 2) 09/15/2021: Detailed search on the internet for a new address of this company/current contact information. Nothing more found.
- 3) 10/20/2021: Detailed search on the internet for a new address of this company/current contact information. Nothing more found.
- 4) 02/9/2022: Detailed search on the internet for a new address of this company/current contact information. Nothing more found

COG Operating, LLC.

- 1) 08/12/2021: Well proposal letter with AFEs & JOA are sent via certified mail.
- 2) 08/18/2021: Email mail delivery confirmation to recipient.
- 3) 08/19/2021: Email correspondence with Baylor Mitchell at COG discussing this interest and the JOA.
- 4) 12/01/2021: Email correspondence with Baylor Mitchell discussing this interest.
- 5) 12/16/2021: Email correspondence with Baylor Mitchell discussing this interest.
- 6) 02/08/2022: COG has yet to make a decision or let me know what they would like to do with this interest.



hinklelawfirm.com

HINKLE SHANOR LLP

ATTORNEYS AT LAW

PO BOX 2068

SANTA FE, NEW MEXICO 87504

505-982-4554 (FAX) 505-982-8623

WRITER:

Dana S. Hardy, Partner
dhardy@hinklelawfirm.com

December 6, 2021

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

TO ALL INTERESTS SUBJECT TO POOLING PROCEEDINGS**Re: Correction Notice**

Case No. 22368: Application of Mewbourne Oil Company for Compulsory Pooling,
 Lea County, New Mexico

To whom it may concern:

This letter is to advise you that the previous notice of hearing letter sent on November 18, 2021 for Case No. 22368 contains incorrect contact information. Please contact **Brad Dunn** at **432-682-3715 ext. 1109** or **bdunn@mewbourne.com** if you have any questions about this matter.

The hearing will be conducted on **January 6, 2022** beginning at 8:15 a.m. During the COVID-19 Public Health Emergency, state buildings are closed to the public and hearings will be conducted remotely. To participate in the electronic hearing, see the instructions posted on the OCD Hearings website: <https://www.emnrd.nm.gov/ocd/hearing-info/>. 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 challenging the matter at a later date.

Pursuant to Division Rule 19.15.4.13.B, a party who intends to present evidence at the hearing shall file a pre-hearing statement and serve copies on other parties, or the attorneys of parties who are represented by counsel, at least four business days in advance of a scheduled hearing, but in no event later than 5:00 p.m. mountain time, on the Thursday preceding the scheduled hearing date. The statement must be filed at the Division's Santa Fe office or submitted through the OCD E-Permitting system (<https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/>) and should include: the names of the parties and their attorneys, a concise statement of the case, the names of all 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 are to be resolved prior to the hearing.

Thank you for your attention to this matter.

Sincerely,



Dana S. Hardy

MEWBOURNE OIL CO.

Case No. 22368

Exhibit A-6

Enclosure

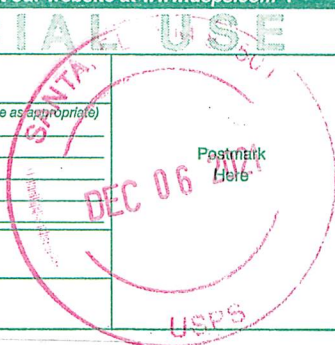
PO BOX 10
 ROSWELL, NEW MEXICO 88202
 575-622-6510
 (FAX) 575-623-9332

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

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

7019 2970 0000 7641 4870

CERTIFIED MAIL® RECEIPT	
Domestic Mail Only	
For delivery information, visit our website at 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	\$
Postage	\$
Total Postage and Fees	\$
Sent To	
Street and	BTA Oil Producers
	Attn: Rex Barker
City, State	104 South Pecos
	Midland, TX 79701
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.

BTA Oil Producers
Attn: Rex Barker
104 South Pecos
Midland, TX 79701



9590 9402 5760 0003 2749 25

2. Article Number (Transfer from service label)

7019 2970 0000 7641 4870

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

☐ Agent☐ Addressee

B. Received by (Printed Name)

Taylor McInnis

C. Date of Delivery

12/10/21

D. Is delivery address different from item 1? ☐ YesIf 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
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over \$500)

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

Domestic Return Receipt

7021 0350 0001 3336 1461

U.S. Postal Service CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
OFFICIAL USE	
Certified Mail Fee \$	Postmark Here
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 \$	
Postage \$	
Total Postage and Fees \$	
Sent To	
Explorers Petroleum Corp. Attn: Permian Land Manager P.O. Box 1933 Roswell, NM 88201	
Street and Apt. 1	
City, State, ZIP+	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ 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: Explorers Petroleum Corp. Attn: Permian Land Manager P.O. Box 1933 Roswell, NM 88201 2. Article Number (Transfer from service label) 7021 0350 0001 3336 1461	A. Signature <i>Anna C. Bell</i> B. Received by (Printed Name) Anna C. Bell C. Date of Delivery 12/13/21 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 ☐ Insured Mail ☐ Insured Mail Restricted Delivery (over \$500) ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery
9590 9402 5760 0003 2749 56	Domestic Return Receipt

7021 0350 0001 3336 1478

CERTIFIED MAIL® RECEIPT	
Domestic Mail Only	
For delivery information, visit our website at 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	\$
Postage	\$
Total Postage and Fees	\$
Sent To	
Street and Ap	Laurelind Corporation Attn: Permian Land Manager P.O. Box 2143 Roswell, NM 88201
City, State, Zi	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

CERTIFIED MAIL®

7021 0350 0001 3336 1478

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UNITED STATES POSTAGE
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0000913767 DEC 06 2
MAILED FROM ZIP CODE 87

KLE SHANOR LLP
ATTORNEYS AT LAW
1ST OFFICE BOX 2068
ROSWELL, NEW MEXICO 87504

Laurelind Corporation
Attn: Permian Land Manager
P.O. Box 2143
Roswell, NM 88201

NIXIE 710 DE 1 0012/01/21

RETURN TO SENDER

ORIGIN TO 000000

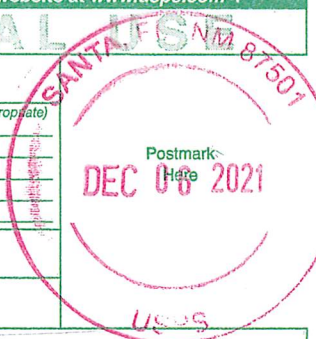
BC: 87504206868 *0444-02313-01-20

9 2021

CNC
12/24

7019 2970 0000 7641 4924

CERTIFIED MAIL® RECEIPT	
Domestic Mail Only	
For delivery information, visit our website at 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	\$
Postage	\$
Total Postage and Fees	\$
Sent To	
Street and A	Lynx Petroleum Inc. Attn: Permian Land Manager P.O. Box 11708 Hobbs, NM 88241-1708
City, State, Z	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
- 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.	A. Signature <i>Donna Rutledge</i> ☐ Agent ☐ Addressee B. Received by (Printed Name) <i>Donna Rutledge</i> C. Date of Delivery <i>12-10-21</i> D. Is delivery address different from item 1? ☐ Yes ☐ No If YES, enter delivery address below:
1. Article Addressed to: Lynx Petroleum Inc. Attn: Permian Land Manager P.O. Box 11708 Hobbs, NM 88241-1708	
2. Article Number (Transfer from service label) 7019 2970 0000 7641 4924	3. Service Type ☐ Adult Signature ☐ Priority Mail Express® ☐ Adult Signature Restricted Delivery ☐ Registered Mail™ ☒ Certified Mail® ☐ Registered Mail Restricted Delivery ☐ Certified Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Collect on Delivery ☐ Signature Confirmation™ ☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation Restricted Delivery ☐ Insured Mail ☐ Insured Mail Restricted Delivery (over \$500)
9590 9402 5760 0003 2748 88	
PS Form 3811, July 2015 PSN 7530-02-000-9053	Domestic Return Receipt

2447 9550 1000 0550 1202

Certified Mail® RECEIPT	
Domestic Mail Only	
For delivery information, visit our website at 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	\$
Postage	\$
Total Postage and Fees	\$
Sent To	
Street or	MRC Delaware Resources LLC
City, State	Attn: David Johns
	5400 LBJ Freeway, Ste. 1500
	Dallas, TX 75240
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ 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: MRC Delaware Resources LLC Attn: David Johns 5400 LBJ Freeway, Ste. 1500 Dallas, TX 75240 2. Article Number (Transfer from service label) 7021 0350 0001 3336 1447	A. Signature X <i>LBROWN</i> ☐ Agent ☐ Addressee B. Received by (Printed Name) C. Date of Delivery 12/10/21 D. Is delivery address different from item 1? ☐ Yes ☐ No If YES, enter delivery address below: 3. Service Type ☐ Adult Signature ☐ Priority Mail Express® ☐ Adult Signature Restricted Delivery ☐ Registered Mail™ ☒ Certified Mail® ☐ Registered Mail Restricted Delivery ☐ Certified Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Collect on Delivery ☐ Signature Confirmation™ ☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation Restricted Delivery ☐ Insured Mail ☐ Signature Confirmation Restricted Delivery (over \$500)

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

Domestic Return Receipt

7019 2970 0000 7641 4887

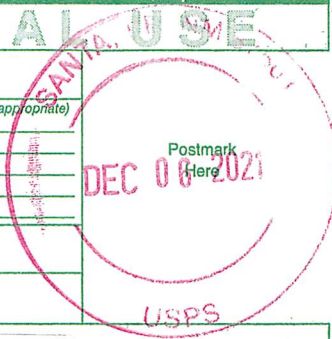
CERTIFIED MAIL® RECEIPT	
Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
OFFICIAL USE	
Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$
☐ Return Receipt (electronic)	\$
☐ Certified Mail Restricted Delivery	\$
☐ Adult Signature Required	\$
☐ Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$
Sent To	
Street and Ap	OXY USA WTP Limited Partnership Attn: Clay Carrol P.O. Box 4294
City, State, Zi	Houston, TX 77210-4294
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
- 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.	A. Signature X <i>J. Bee</i> ☐ Agent ☐ Addressee B. Received by (Printed Name) <i>J. Bee</i> C. Date of Delivery <i>12/3</i> D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No
1. Article Addressed to: OXY USA WTP Limited Partnership Attn: Clay Carrol P.O. Box 4294 Houston, TX 77210-4294	3. Service Type ☐ Adult Signature ☐ Priority Mail Express® ☐ Adult Signature Restricted Delivery ☐ Registered Mail™ ☒ Certified Mail® ☐ Registered Mail Restricted Delivery ☐ Certified Mail Restricted Delivery ☐ Signature Confirmation™ ☐ Collect on Delivery ☐ Signature Confirmation Restricted Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Insured Mail Restricted Delivery (over \$500)
2. Article Number (Transfer from service label) 7019 2970 0000 7641 4887	
PS Form 3811, July 2020 PSN 7530-02-000-9053	

Domestic Return Receipt

7021 0350 0001 3336 1454

U.S. Postal Service CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at 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	\$
Postage	\$
Total Postage and Fees	\$
Sent To: Spiral, Inc. Attn: Permian Land Manager P.O. Box 1933 Roswell, NM 88201	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ 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.	A. Signature X <i>Amelia Carrion</i> ☒ Agent ☐ Addressee
1. Article Addressed to: Spiral, Inc. Attn: Permian Land Manager P.O. Box 1933 Roswell, NM 88201	B. Received by (Printed Name) <i>Amelia Carrion</i> C. Date of Delivery <i>12/13/21</i> D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No
2. Article Number (Transfer from service label) 7021 0350 0001 3336 1454	3. Service Type ☐ Adult Signature ☐ Priority Mail Express® ☐ Adult Signature Restricted Delivery ☐ Registered Mail™ ☒ Certified Mail® ☐ Registered Mail Restricted Delivery ☐ Certified Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Collect on Delivery ☐ Signature Confirmation™ ☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation Restricted Delivery ☐ Insured Mail ☐ Insured Mail Restricted Delivery (over \$500)
PS Form 3811, July 2015 PSN 7530-02-000-9053	Domestic Return Receipt



9590 9402 5760 0003 2749 49

7021 0350 0001 3336 1485

CERTIFIED MAIL® RECEIPT	
Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
OFFICIAL USE	
Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$
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☐ Certified Mail Restricted Delivery	\$
☐ Adult Signature Required	\$
☐ Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$
Sent To	Winchester Energy, LLC
Street and A	Attn: Permian Land Manager
City, State, Z	P.O. Box 13540 Oklahoma City, OK 73113
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

DEC 06 2021

USPS

SENDER: COMPLETE THIS SECTION

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1. Article Addressed to:

Winchester Energy, LLC
Attn: Permian Land Manager
P.O. Box 13540
Oklahoma City, OK 73113



9590 9402 5760 0003 2749 70

2. Article Number (Transfer from service label)

7021 0350 0001 3336 1485

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Karen J. Deane

☐ Agent☐ Addressee

B. Received by (Printed Name)

Karen J. Deane

C. Date of Delivery

12-13-21

D. Is delivery address different from item 1? ☐ YesIf 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
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over \$500)

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

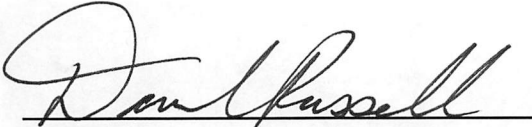
Domestic Return Receipt

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

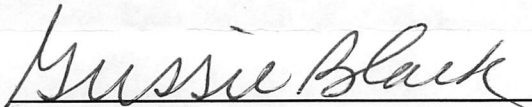
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
December 02, 2021
and ending with the issue dated
December 02, 2021.



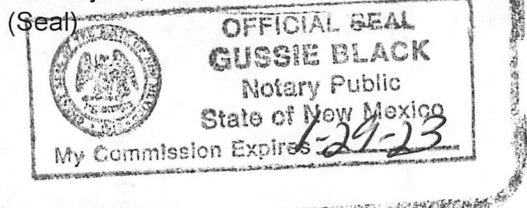
Publisher

Sworn and subscribed to before me this
2nd day of December 2021.



Business Manager

My commission expires
January 29, 2023



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

LEGAL

LEGAL

LEGAL NOTICE
December 2, 2021

This is to notify all interested parties, including OXY USA WTP Limited Partnership; BTA Oil Producers; MRC Delaware Resources LLC; Spiral, Inc.; Explorers Petroleum Corp.; Laureline Corporation; Winchester Energy, LLC; and their successors and assigns, that the New Mexico Oil Conservation Division will conduct a hearing on an application submitted by Mewbourne Oil Company (Case No. 22368). During the COVID-19 Public Health Emergency, state buildings are closed to the public and hearings will be conducted remotely. The hearing will be conducted on January 6, 2022 beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted on the docket for that date: <https://www.emnrd.nm.gov/ocd/hearing-info/>. Applicant applies for an order pooling all uncommitted interests within the Bone Spring formation underlying a 240-acre, more or less, standard horizontal spacing unit comprised of the W/2E/2 of Section 11 and W/2SE/4 of Section 2, Township 18 South, Range 32 East, Lea County, New Mexico ("Unit"). The Unit will be dedicated to the Dragonstone 11/2 B2OJ Fed Com #1 well to be horizontally drilled from a surface hole location in the NE/4NE/4 (Unit A) of Section 14 to a bottom hole location in the NW/4SE/4 (Unit J) of Section 2. Also, to be considered will be the cost of drilling and completing the Well and the allocation of the costs, the designation of Applicant as the operator of the Well, and a 200% charge for the risk involved in drilling and completing the Well. The Well is located approximately 25 miles southwest of Carlsbad, New Mexico.
#37092

02107475

00261278

GILBERT
HINKLE, SHANOR LLP
PO BOX 2068
SANTA FE, NM 87504

MEWBOURNE OIL CO.

Case No. 22368

Exhibit A-7

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

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

CASE NOS. 22365-22368

**SELF-AFFIRMED STATEMENT
OF CHARLES CROSBY**

1. I am a geologist at Mewbourne Oil Company ("MOC") and am over 18 years of age. I have personal knowledge of the matters addressed herein and am competent to provide this Self-Affirmed Statement. I have previously testified before the New Mexico Oil Conservation Division ("Division"), and my credentials as an expert in petroleum geology matters were accepted and made a matter of record.

2. I am familiar with the geological matters pertaining to the above-referenced cases.

3. **Exhibit B-1** is a location map of the proposed horizontal spacing units ("Units"). The approximate wellbore paths for the proposed **Dragonstone 11/2 B2PI Fed Com #1, Dragonstone 11/2 B2NK Fed Com #1, Dragonstone 11/2 B2ML Fed Com #1, and Dragonstone 11/2 B2OJ Fed Com #1** wells ("Wells") are represented by dashed green arrows.

4. **Exhibit B-2** is a subsea structure map for the Base of the 2nd Bone Spring Sand that is representative of the targeted interval. The approximate wellbore paths for the Wells are depicted by dashed green arrows. Existing producing wells in the targeted interval are represented by solid green lines. The map demonstrates the formation is dipping to the south in this area. I do not observe any faulting, pinch-outs, or geologic impediments to developing the targeted intervals with horizontal wells.

5. **Exhibit B-2** also identifies six wells penetrating the targeted interval used to construct a stratigraphic cross-section from A to A'. I used these well logs because they penetrate the targeted interval, are of good quality, and are representative of the geology in the area.

6. **Exhibit B-3** is a stratigraphic cross-section using the representative wells identified on **Exhibit B-2**. It contains gamma ray, resistivity and porosity logs. The proposed landing zone for the Wells is labeled on the exhibit. This cross-section demonstrates the target interval is continuous across the Units.

7. **Exhibit B-4** is a gross thickness isopach map of the 2nd Bone Spring Sand formation which is the target zone for the Wells. It shows the target interval across the Units has an approximate thickness of 380-400'.

8. **Exhibit B-5** is a production table showing other horizontal wells in the area that are producing from the 2nd Bone Spring Sand.

9. **Exhibit B-6** are preliminary horizontal survey reports for the proposed Dragonstone wells.

10. In my opinion, there is no significant orientation preference for horizontal wells when taking regional stress regime and local stratigraphic and structural features into consideration. There have been multiple successful horizontal wells drilled in each orientation in the area.

11. Based on my geologic study of the area, the targeted interval underlying the Units is suitable for development by horizontal wells and the tracts comprising the Units will contribute more or less equally to the production of the Wells.

12. In my opinion, the granting of MOC's applications will serve the interests of conservation, the protection of correlative rights, and the prevention of waste.

13. The exhibits attached hereto were either prepared by me or under my supervision or were compiled from company business records.

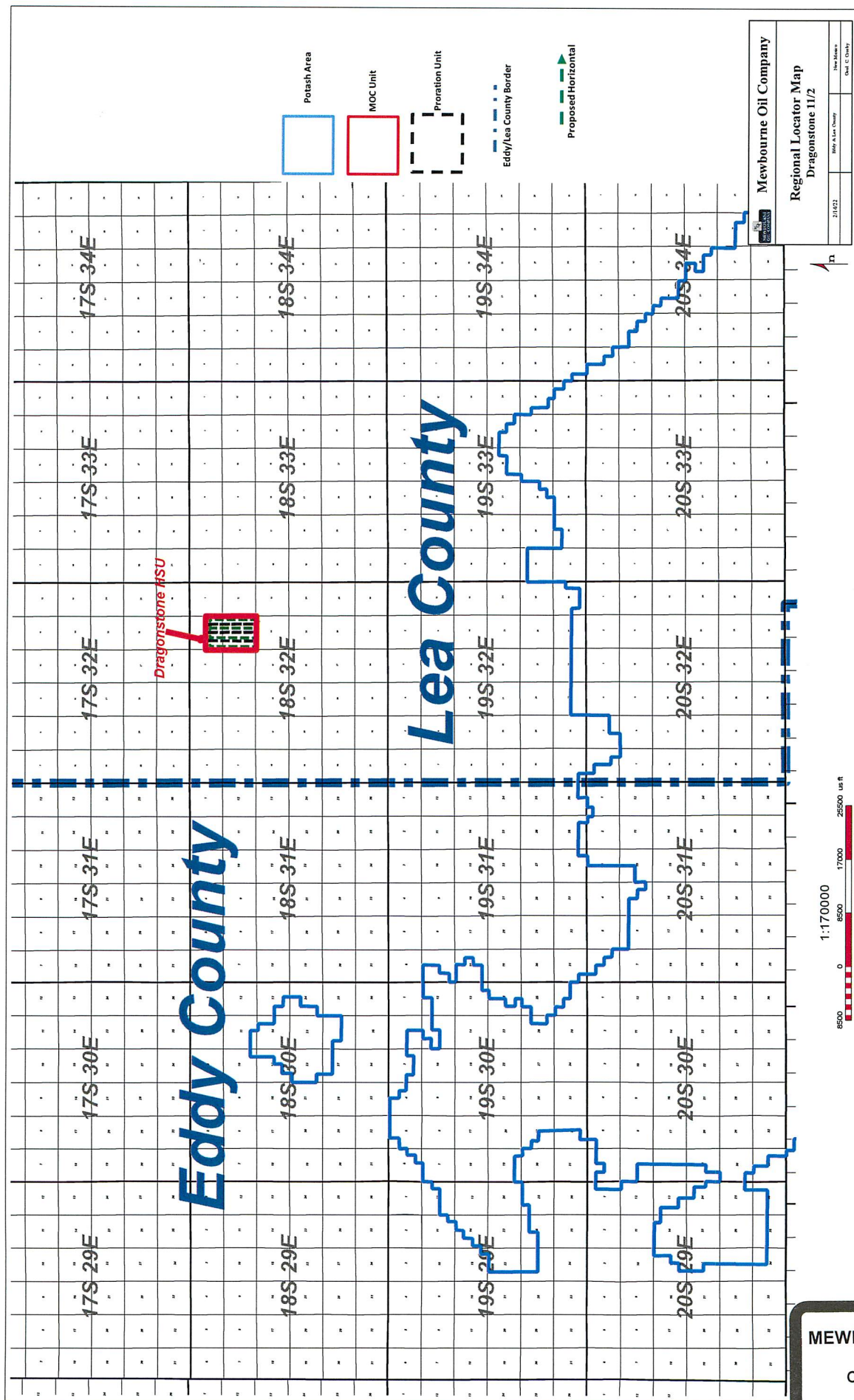
14. I understand this Self-Affirmed Statement will be used as written testimony in these cases. I affirm my testimony in paragraphs 1 through 11 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date identified next to my signature below.



Charles Crosby



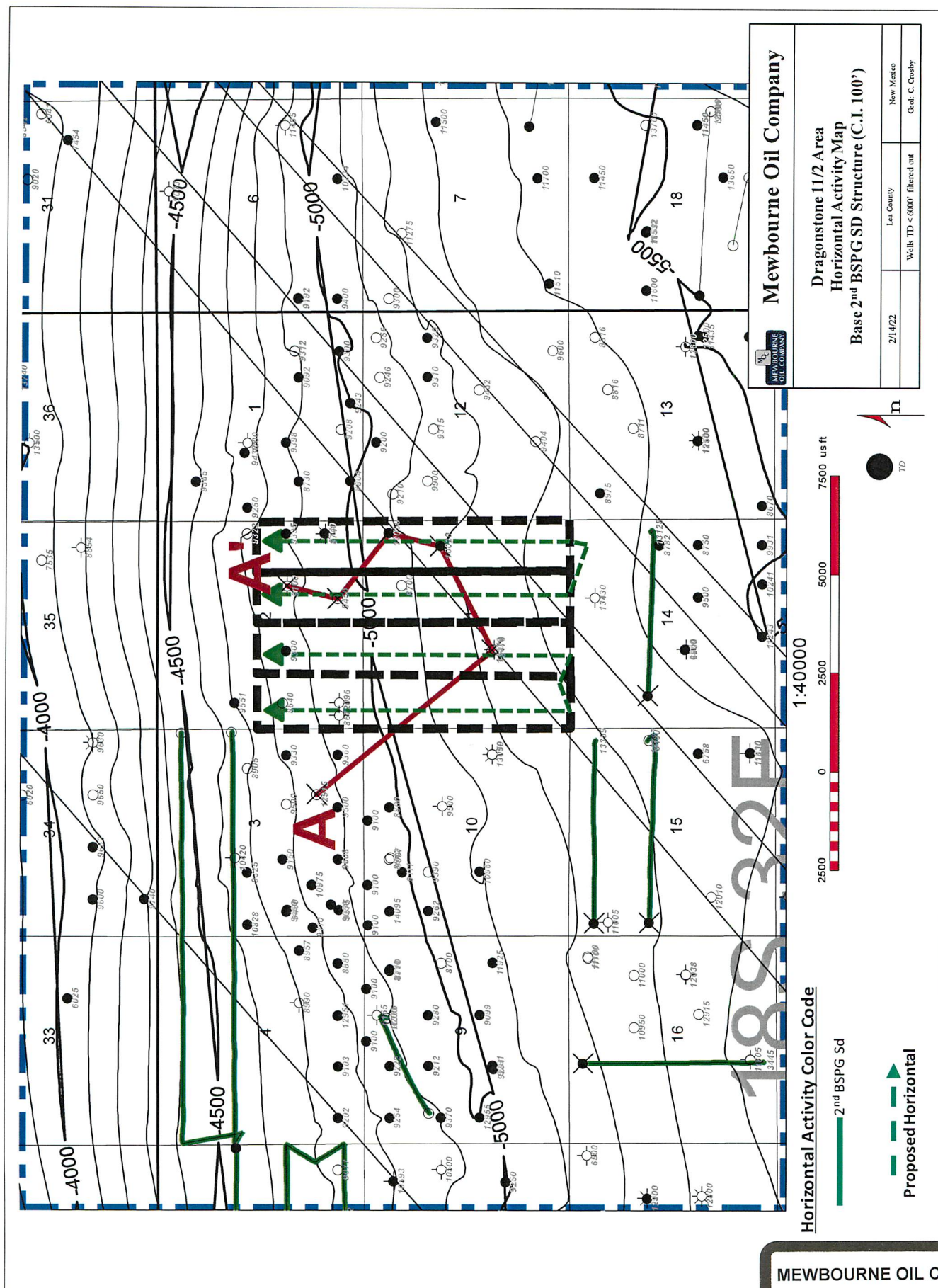
Date



MEWBOURNE OIL CO.

Case No. 22368

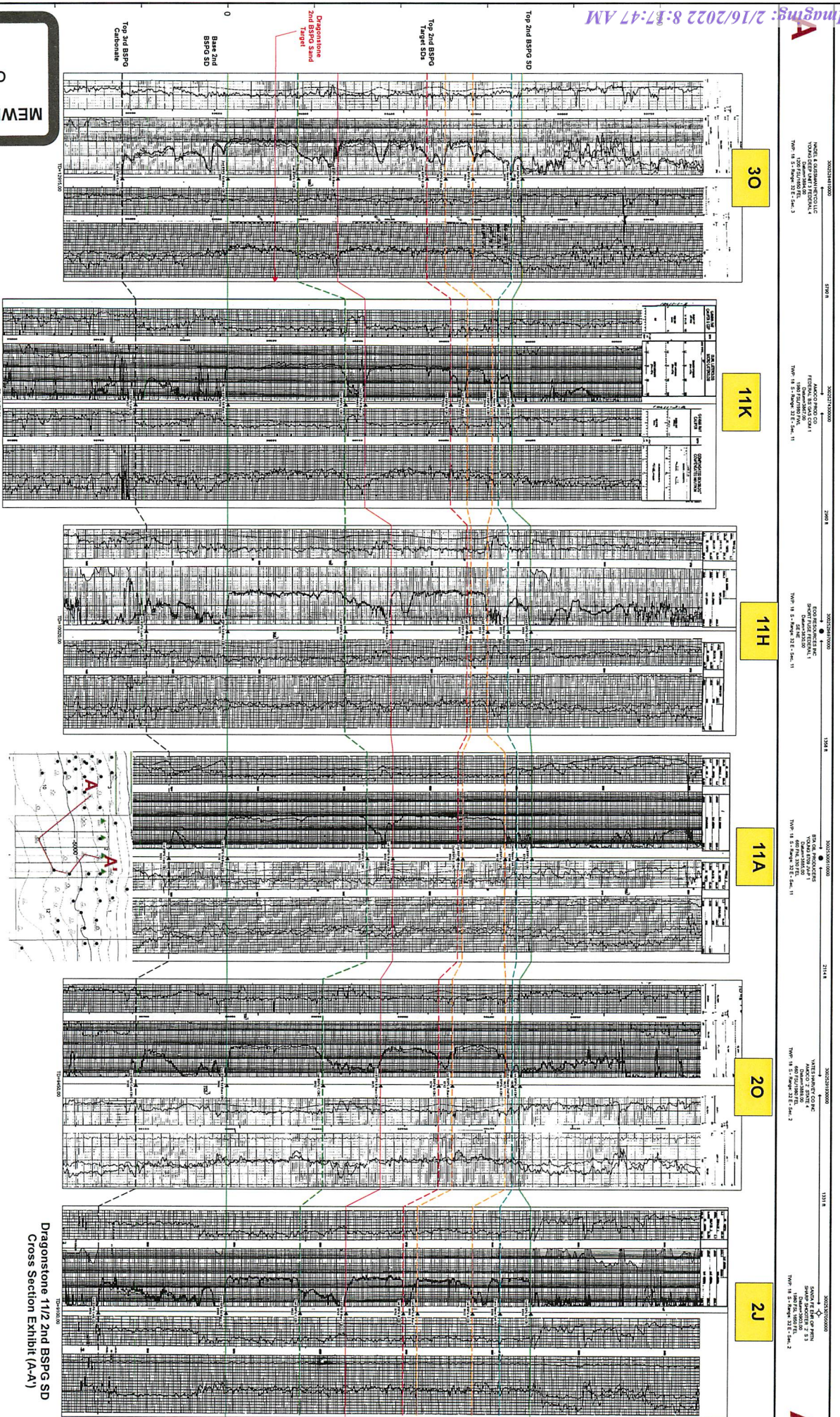
Exhibit B-1



MEWBOURNE OIL CO.

Case No. 22368

Exhibit B-2



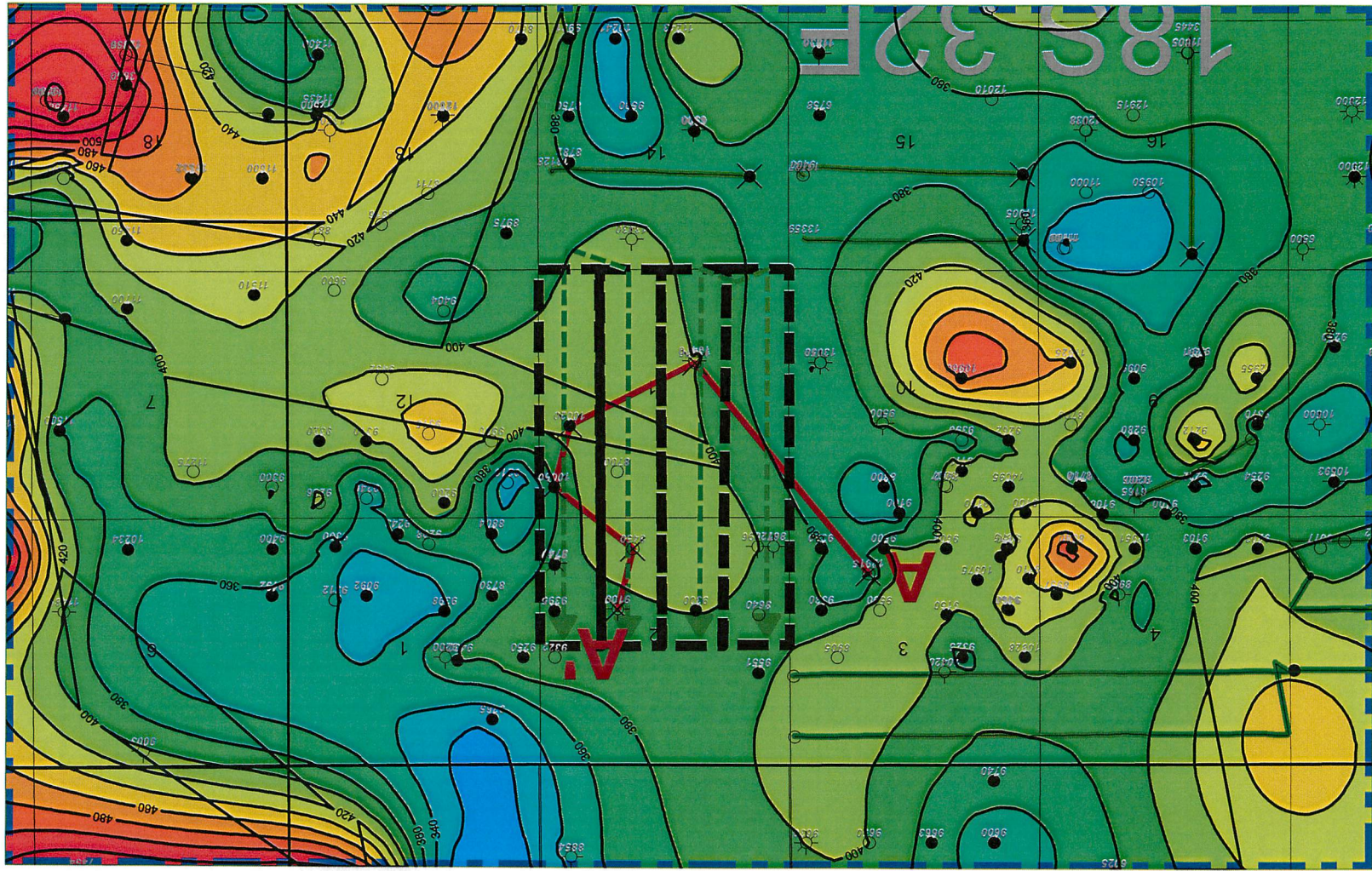
Dragonstone 11/2 2nd BSPG SD
Cross Section Exhibit (A-A')

MEWBOURNE OIL CO.
Case No. 22368
Exhibit B-3

MEWBOURNE OIL CO.

Case No. 22368

Exhibit B-4



Mewbourne Oil Company	
Dragonstone 11/2 Area	
Horizontal Activity Map	
2nd BSPG SD Gross Thickness (C.I. 20')	
New Mexico	Geot. C. Crosby
Lea County	Wells TID < 6000' filtered out
2/14/22	

Dragonstone Area 2nd BSPG SD Horizontal Production Table

Well Name	Operator	API	Location	Completion Date	Cum Oil (Mbo)	Cum Gas (Bcf)	Cum Water (Mbw)	NS/EW	Production Zone
Young Deep Unit 14H (Inactive)	Nadel And Gussman	30025290150100	9B/18S/32E	8/19/2005	127.1	0.28	37.7	SW-NE	2nd Bone Spring Sand
West Shinnery 15 Federal 2H	Raybaw	30025399560000	15A/18S/32E	3/2/2012	86.8	0.16	258.6	EW	2nd Bone Spring Sand
West Shinnery 15 Federal Com 3H	Cimarex	30025400660000	15H/18S/32E	11/18/2011	87.8	0.21	279.8	EW	2nd Bone Spring Sand
Shinnery 14 Federal 10H	Raybaw	30025400720000	14H/18S/32E	11/6/2012	126.3	0.23	290.0	EW	2nd Bone Spring Sand
Young 16 NC State Com 1H	Mewbourne	30025413760000	16N/18S/32E	11/21/2013	63.3	0.07	230.2	NS	2nd Bone Spring Sand
Winterfell 6/5 B2GH Federal Com 1H	Mewbourne	30025478650000	6G/18S/32E	7/1/2021	150.2	0.07	117.7	EW	2nd Bone Spring Sand
Winterfell 5/6 B2PO Federal Com 1H	Mewbourne	30025478660000	5P/18S/32E	11/1/2021	43.9	0.02	27.9	EW	2nd Bone Spring Sand
Winterfell 5/6 B2JI Federal Com 1H	Mewbourne	30025493630000	5P/18S/32E	11/1/2021	54.3	0.02	46.2	EW	2nd Bone Spring Sand
Eastwatch 4/3 B2EH Federal Com 1H	Mewbourne	30025495330000	4E/18S/32E	Pending				EW	2nd Bone Spring Sand
Eastwatch 4/3 B2DA Federal Com 1H		30025496010000		Pending				EW	2nd Bone Spring Sand

MEWBOURNE OIL CO.

Case No. 22368

Exhibit B-5

Mewbourne Oil Company

SURVEY CALCULATION REPORT
Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Dragonstone 11/2 B2PI Fed Com 1H
KOP 8704.04
SL: 405 FNL & 603 FEL; Sec 14A/18S/32E
PBHL: 2540 FSL & 495 FEL; Sec 2I/18S/32E

Target KBTVD: 9,277 Feet 9277.00
Target Angle: 93.58 Degrees 93.58
Section Plane: 0.82 Degrees
Declination Corrected to True North: 6.63 Degrees
Bit to Survey Offset: 44 Feet

Survey No.	Measured Depth-ft	Drift (Deg.)	Azimuth (Deg.)	Course Length	TVD (Feet)	Vertical Section	+N/-S (Feet)	+E/-W (Feet)	Closure Distance	Closure Direction	BUR	DLS	KBTVD	+Above -Below Target	DRIFT (RADIANS)	AZIMUTH (RADIANS)
T/I	8704.04	0.00	0.82	N/A	8704.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	8704.0	573.0	1E-12	0.01 #VALUE!
1	8797.62	9.36	0.82	93.581	8797.2	7.6	7.6	0.1	7.6	0.8	10.0	10.0	8797.7	479.3	0.1633298	0.01 0.1633298
2	8891.20	18.72	0.82	93.581	8887.9	30.3	30.3	0.4	30.3	0.8	10.0	10.0	8889.8	387.2	0.3266595	0.01 0.1633298
3	8984.79	28.07	0.82	93.581	8973.7	67.4	67.4	1.0	67.4	0.8	10.0	10.0	8977.9	299.1	0.4899893	0.01 0.1633298
4	9078.37	37.43	0.82	93.581	9052.3	118.0	118.0	1.7	118.0	0.8	10.0	10.0	9059.7	217.3	0.6533191	0.01 0.1633298
5	9171.95	46.79	0.82	93.581	9121.6	180.7	180.7	2.6	180.7	0.8	10.0	10.0	9133.0	144.0	0.8166488	0.01 0.1633298
6	9265.53	56.15	0.82	93.581	9179.9	253.8	253.8	3.6	253.8	0.8	10.0	10.0	9195.8	81.2	0.9799786	0.01 0.1633298
7	9359.11	65.51	0.82	93.581	9225.4	335.4	335.4	4.8	335.4	0.8	10.0	10.0	9246.4	30.6	1.1433083	0.01 0.1633298
8	9452.69	74.86	0.82	93.581	9257.1	423.4	423.3	6.1	423.4	0.8	10.0	10.0	9283.6	-6.6	1.3066381	0.01 0.1633298
9	9546.27	84.22	0.82	93.581	9274.1	515.3	515.2	7.4	515.3	0.8	10.0	10.0	9306.3	-29.3	1.4699679	0.01 0.1633298
10	9639.85	93.58	0.82	93.581	9275.9	608.7	608.7	8.7	608.7	0.8	10.0	10.0	9314.0	-37.0	1.6332976	0.01 0.1633298
11	9700.00	93.58	0.82	60.147	9272.1	668.8	668.7	9.6	668.8	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
12	9800.00	93.58	0.82	100	9265.9	768.6	768.5	11.0	768.6	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
13	9900.00	93.58	0.82	100	9259.6	868.4	868.3	12.4	868.4	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
14	10000.00	93.58	0.82	100	9253.4	968.2	968.1	13.9	968.2	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
15	10100.00	93.58	0.82	100	9247.1	1068.0	1067.9	15.3	1068.0	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
16	10200.00	93.58	0.82	100	9240.9	1167.8	1167.7	16.7	1167.8	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
17	10300.00	93.58	0.82	100	9234.6	1267.6	1267.5	18.2	1267.6	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
18	10400.00	93.58	0.82	100	9228.4	1367.4	1367.3	19.6	1367.4	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
19	10500.00	93.58	0.82	100	9222.2	1467.2	1467.1	21.0	1467.2	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
20	10600.00	93.58	0.82	100	9215.9	1567.0	1566.9	22.4	1567.0	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
21	10700.00	93.58	0.82	100	9209.7	1666.8	1666.7	23.9	1666.8	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
22	10800.00	93.58	0.82	100	9203.4	1766.6	1766.4	25.3	1766.6	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
23	10900.00	93.58	0.82	100	9197.2	1866.4	1866.2	26.7	1866.4	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
24	11000.00	93.58	0.82	100	9190.9	1966.2	1966.0	28.2	1966.2	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
25	11100.00	93.58	0.82	100	9184.7	2066.0	2065.8	29.6	2066.0	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
26	11200.00	93.58	0.82	100	9178.4	2165.8	2165.6	31.0	2165.8	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
27	11300.00	93.58	0.82	100	9172.2	2265.7	2265.4	32.4	2265.7	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
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29	11500.00	93.58	0.82	100	9159.7	2465.3	2465.0	35.3	2465.3	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
30	11600.00	93.58	0.82	100	9153.4	2565.1	2564.8	36.7	2565.1	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
31	11700.00	93.58	0.82	100	9147.2	2664.9	2664.6	38.2	2664.9	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
32	11800.00	93.58	0.82	100	9141.0	2764.7	2764.4	39.6	2764.7	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
33	11900.00	93.58	0.82	100	9134.7	2864.5	2864.2	41.0	2864.5	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
34	12000.00	93.58	0.82	100	9128.5	2964.3	2964.0	42.4	2964.3	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
35	12100.00	93.58	0.82	100	9122.2	3064.1	3063.8	43.9	3064.1	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
36	12200.00	93.58	0.82	100	9116.0	3163.9	3163.6	45.3	3163.9	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
37	12300.00	93.58	0.82	100	9109.7	3263.7	3263.4	46.7	3263.7	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
38	12400.00	93.58	0.82	100	9103.5	3363.5	3363.2	48.2	3363.5	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
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48	13400.00	93.58	0.82	100	9041.0	4361.6	4361.1	62.5	4361.6	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
49	13500.00	93.58	0.82	100	9034.8	4461.4	4460.9	63.9	4461.4	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
50	13600.00	93.58	0.82	100	9028.5	4561.2	4560.7	65.3	4561.2	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
51	13700.00	93.58	0.82	100	9022.3	4661.0	4660.5	66.7	4661.0	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
52	13800.00	93.58	0.82	100	9016.0	4760.8	4760.3	68.2	4760.8	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
53	13900.00	93.58	0.82	100	9009.8	4860.6	4860.1	69.6	4860.6	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
54	14000.00	93.58	0.82	100	9003.5	4960.4	4959.9	71.0	4960.4	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
55	14100.00	93.58	0.82	100	8997.3	5060.2	5059.7	72.5	5060.2	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10
56	14200.00	93.58	0.82	100	8991.1	5160.0	5159.5	73.9	5160.0	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01 1E-10

MEWBOURNE OIL CO.

Case No. 22368

Exhibit B-6

57	14300.00	93.58	0.82	100	8984.8	5259.8	5259.3	75.3	5259.8	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
58	14400.00	93.58	0.82	100	8978.6	5359.6	5359.0	76.8	5359.6	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
59	14500.00	93.58	0.82	100	8972.3	5459.4	5458.8	78.2	5459.4	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
60	14600.00	93.58	0.82	100	8966.1	5559.2	5558.6	79.6	5559.2	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
61	14700.00	93.58	0.82	100	8959.8	5659.0	5658.4	81.0	5659.0	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
62	14800.00	93.58	0.82	100	8953.6	5758.8	5758.2	82.5	5758.8	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
63	14900.00	93.58	0.82	100	8947.3	5858.6	5858.0	83.9	5858.6	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
64	15000.00	93.58	0.82	100	8941.1	5958.4	5957.8	85.3	5958.4	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
65	15100.00	93.58	0.82	100	8934.8	6058.2	6057.6	86.8	6058.2	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
66	15200.00	93.58	0.82	100	8928.6	6158.0	6157.4	88.2	6158.0	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
67	15300.00	93.58	0.82	100	8922.3	6257.8	6257.2	89.6	6257.8	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
68	15400.00	93.58	0.82	100	8916.1	6357.6	6357.0	91.0	6357.6	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
69	15500.00	93.58	0.82	100	8909.9	6457.4	6456.8	92.5	6457.4	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
70	15600.00	93.58	0.82	100	8903.6	6557.3	6556.6	93.9	6557.3	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
71	15700.00	93.58	0.82	100	8897.4	6657.1	6656.4	95.3	6657.1	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
72	15800.00	93.58	0.82	100	8891.1	6756.9	6756.2	96.8	6756.9	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
73	15900.00	93.58	0.82	100	8884.9	6856.7	6856.0	98.2	6856.7	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
74	16000.00	93.58	0.82	100	8878.6	6956.5	6955.8	99.6	6956.5	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
75	16100.00	93.58	0.82	100	8872.4	7056.3	7055.6	101.0	7056.3	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
76	16200.00	93.58	0.82	100	8866.1	7156.1	7155.3	102.5	7156.1	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
77	16300.00	93.58	0.82	100	8859.9	7255.9	7255.1	103.9	7255.9	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
78	16400.00	93.58	0.82	100	8853.6	7355.7	7354.9	105.3	7355.7	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
79	16500.00	93.58	0.82	100	8847.4	7455.5	7454.7	106.8	7455.5	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
80	16600.00	93.58	0.82	100	8841.1	7555.3	7554.5	108.2	7555.3	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
81	16700.00	93.58	0.82	100	8834.9	7655.1	7654.3	109.6	7655.1	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
82	16800.00	93.58	0.82	100	8828.7	7754.9	7754.1	111.1	7754.9	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
83	16900.00	93.58	0.82	100	8822.4	7854.7	7853.9	112.5	7854.7	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
84	17000.00	93.58	0.82	100	8816.2	7954.5	7953.7	113.9	7954.5	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
85	17100.00	93.58	0.82	100	8809.9	8054.3	8053.5	115.3	8054.3	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
86	17200.00	93.58	0.82	100	8803.7	8154.1	8153.3	116.8	8154.1	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
87	17273.90	93.58	0.82	73.903	8799.1	8227.9	8227.0	117.8	8227.9	0.8	0.0	0.0	9314.0	-37.0	1.6332976	0.01	1E-10
88	17273.90	93.58	0.82	0	8799.1	8227.9	8227.0	117.8	8227.9	0.8 #DIV/0!	#DIV/0!		9314.0	-37.0	1.6332976	0.01	1E-10
89	17273.90	93.58	0.82	0	8799.1	8227.9	8227.0	117.8	8227.9	0.8 #DIV/0!	#DIV/0!		9314.0	-37.0	1.6332976	0.01	1E-10

Mewbourne Oil Company

SURVEY CALCULATION REPORT Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Dragonstone 11/2 B20J Fed Com 1H
KOP 8706.04
SL: 405 FNL & 660 FEL; Sec 14A/18S/32E
PBHL: 2540 FSL & 1815 FEL; Sec 2J/18S/32E

Target KBTVD: 9,279 Feet 9279.00
Target Angle: 93.79 Degrees 93.79
Section Plane: 351.91 Degrees
Declination Corrected to True North: 6.63 Degrees
Bit to Survey Offset: 44 Feet

Survey No.	Measured Depth-ft	Drift (Deg.)	Azimuth (Deg.)	Course Length	TVD (Feet)	Vertical Section	+N/-S (Feet)	+E/-W (Feet)	Closure Distance	Closure Direction	BUR	DLS	KBTVD	+Above -Below Target	DRIFT (RADIANS)	AZIMUTH (RADIANS)
T/I	8706.04	0.00	351.91	N/A	8706.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	8706.0	573.0	1E-12	6.14 #VALUE!
1	8799.84	9.38	351.91	93.793	8799.4	7.7	7.6	-1.1	7.7	351.9	10.0	10.0	8799.9	479.1	0.1636993	6.14 0.1636993
2	8893.63	18.76	351.91	93.793	8890.3	30.4	30.1	-4.3	30.4	351.9	10.0	10.0	8892.3	386.7	0.3273987	6.14 0.1636993
3	8987.42	28.14	351.91	93.793	8976.2	67.7	67.0	-9.5	67.7	351.9	10.0	10.0	8980.7	298.3	0.491098	6.14 0.1636993
4	9081.21	37.52	351.91	93.793	9055.0	118.5	117.3	-16.7	118.5	351.9	10.0	10.0	9062.8	216.2	0.6547974	6.14 0.1636993
5	9175.01	46.90	351.91	93.793	9124.4	181.4	179.6	-25.5	181.4	351.9	10.0	10.0	9136.4	142.6	0.8184967	6.14 0.1636993
6	9268.80	56.28	351.91	93.793	9182.6	254.9	252.3	-35.9	254.9	351.9	10.0	10.0	9199.5	79.5	0.9821961	6.14 0.1636993
7	9362.59	65.65	351.91	93.793	9228.1	336.8	333.4	-47.4	336.8	351.9	10.0	10.0	9250.4	28.6	1.1458954	6.14 0.1636993
8	9456.38	75.03	351.91	93.793	9259.6	425.0	420.8	-59.8	425.0	351.9	10.0	10.0	9287.7	-8.7	1.3095947	6.14 0.1636993
9	9550.18	84.41	351.91	93.793	9276.3	517.2	512.0	-72.8	517.2	351.9	10.0	10.0	9310.6	-31.6	1.4732941	6.14 0.1636993
10	9643.97	93.79	351.91	93.793	9277.7	610.9	604.8	-86.0	610.9	351.9	10.0	10.0	9318.2	-39.2	1.6369934	6.14 0.1636993
11	9700.00	93.79	351.91	56.03	9274.0	666.8	660.1	-93.9	666.8	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
12	9800.00	93.79	351.91	100	9267.4	766.5	758.9	-107.9	766.5	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
13	9900.00	93.79	351.91	100	9260.8	866.3	857.7	-121.9	866.3	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
14	10000.00	93.79	351.91	100	9254.2	966.1	956.5	-136.0	966.1	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
15	10100.00	93.79	351.91	100	9247.6	1065.9	1055.3	-150.0	1065.9	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
16	10200.00	93.79	351.91	100	9241.0	1165.7	1154.1	-164.1	1165.7	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
17	10300.00	93.79	351.91	100	9234.3	1265.5	1252.9	-178.1	1265.5	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
18	10400.00	93.79	351.91	100	9227.7	1365.2	1351.6	-192.2	1365.2	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
19	10500.00	93.79	351.91	100	9221.1	1465.0	1450.4	-206.2	1465.0	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
20	10600.00	93.79	351.91	100	9214.5	1564.8	1549.2	-220.3	1564.8	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
21	10700.00	93.79	351.91	100	9207.9	1664.6	1648.0	-234.3	1664.6	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
22	10800.00	93.79	351.91	100	9201.3	1764.4	1746.8	-248.4	1764.4	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
23	10900.00	93.79	351.91	100	9194.7	1864.1	1845.6	-262.4	1864.1	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
24	11000.00	93.79	351.91	100	9188.0	1963.9	1944.4	-276.5	1963.9	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
25	11100.00	93.79	351.91	100	9181.4	2063.7	2043.2	-290.5	2063.7	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
26	11200.00	93.79	351.91	100	9174.8	2163.5	2141.9	-304.5	2163.5	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
27	11300.00	93.79	351.91	100	9168.2	2263.3	2240.7	-318.6	2263.3	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
28	11400.00	93.79	351.91	100	9161.6	2363.0	2339.5	-332.6	2363.0	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
29	11500.00	93.79	351.91	100	9155.0	2462.8	2438.3	-346.7	2462.8	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
30	11600.00	93.79	351.91	100	9148.4	2562.6	2537.1	-360.7	2562.6	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
31	11700.00	93.79	351.91	100	9141.7	2662.4	2635.9	-374.8	2662.4	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
32	11800.00	93.79	351.91	100	9135.1	2762.2	2734.7	-388.8	2762.2	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
33	11900.00	93.79	351.91	100	9128.5	2861.9	2833.5	-402.9	2861.9	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
34	12000.00	93.79	351.91	100	9121.9	2961.7	2932.2	-416.9	2961.7	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
35	12100.00	93.79	351.91	100	9115.3	3061.5	3031.0	-431.0	3061.5	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
36	12200.00	93.79	351.91	100	9108.7	3161.3	3129.8	-445.0	3161.3	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
37	12300.00	93.79	351.91	100	9102.1	3261.1	3228.6	-459.0	3261.1	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
38	12400.00	93.79	351.91	100	9095.4	3360.9	3327.4	-473.1	3360.9	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
39	12500.00	93.79	351.91	100	9088.8	3460.6	3426.2	-487.1	3460.6	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
40	12600.00	93.79	351.91	100	9082.2	3560.4	3525.0	-501.2	3560.4	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
41	12700.00	93.79	351.91	100	9075.6	3660.2	3623.8	-515.2	3660.2	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
42	12800.00	93.79	351.91	100	9069.0	3760.0	3722.5	-529.3	3760.0	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
43	12900.00	93.79	351.91	100	9062.4	3859.8	3821.3	-543.3	3859.8	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
44	13000.00	93.79	351.91	100	9055.7	3959.5	3920.1	-557.4	3959.5	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
45	13100.00	93.79	351.91	100	9049.1	4059.3	4018.9	-571.4	4059.3	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
46	13200.00	93.79	351.91	100	9042.5	4159.1	4117.7	-585.5	4159.1	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
47	13300.00	93.79	351.91	100	9035.9	4258.9	4216.5	-599.5	4258.9	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
48	13400.00	93.79	351.91	100	9029.3	4358.7	4315.3	-613.5	4358.7	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
49	13500.00	93.79	351.91	100	9022.7	4458.4	4414.0	-627.6	4458.4	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
50	13600.00	93.79	351.91	100	9016.1	4558.2	4512.8	-641.6	4558.2	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
51	13700.00	93.79	351.91	100	9009.4	4658.0	4611.6	-655.7	4658.0	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
52	13800.00	93.79	351.91	100	9002.8	4757.8	4710.4	-669.7	4757.8	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
53	13900.00	93.79	351.91	100	8996.2	4857.6	4809.2	-683.8	4857.6	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
54	14000.00	93.79	351.91	100	8989.6	4957.3	4908.0	-697.8	4957.3	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
55	14100.00	93.79	351.91	100	8983.0	5057.1	5006.8	-711.9	5057.1	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10
56	14200.00	93.79	351.91	100	8976.4	5156.9	5105.6	-725.9	5156.9	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14 1E-10

57	14300.00	93.79	351.91	100	8969.8	5256.7	5204.3	-740.0	5256.7	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
58	14400.00	93.79	351.91	100	8963.1	5356.5	5303.1	-754.0	5356.5	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
59	14500.00	93.79	351.91	100	8956.5	5456.3	5401.9	-768.0	5456.3	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
60	14600.00	93.79	351.91	100	8949.9	5556.0	5500.7	-782.1	5556.0	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
61	14700.00	93.79	351.91	100	8943.3	5655.8	5599.5	-796.1	5655.8	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
62	14800.00	93.79	351.91	100	8936.7	5755.6	5698.3	-810.2	5755.6	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
63	14900.00	93.79	351.91	100	8930.1	5855.4	5797.1	-824.2	5855.4	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
64	15000.00	93.79	351.91	100	8923.5	5955.2	5895.9	-838.3	5955.2	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
65	15100.00	93.79	351.91	100	8916.8	6054.9	5994.6	-852.3	6054.9	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
66	15200.00	93.79	351.91	100	8910.2	6154.7	6093.4	-866.4	6154.7	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
67	15300.00	93.79	351.91	100	8903.6	6254.5	6192.2	-880.4	6254.5	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
68	15400.00	93.79	351.91	100	8897.0	6354.3	6291.0	-894.5	6354.3	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
69	15500.00	93.79	351.91	100	8890.4	6454.1	6389.8	-908.5	6454.1	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
70	15600.00	93.79	351.91	100	8883.8	6553.8	6488.6	-922.5	6553.8	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
71	15700.00	93.79	351.91	100	8877.1	6653.6	6587.4	-936.6	6653.6	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
72	15800.00	93.79	351.91	100	8870.5	6753.4	6686.2	-950.6	6753.4	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
73	15900.00	93.79	351.91	100	8863.9	6853.2	6784.9	-964.7	6853.2	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
74	16000.00	93.79	351.91	100	8857.3	6953.0	6883.7	-978.7	6953.0	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
75	16100.00	93.79	351.91	100	8850.7	7052.7	6982.5	-992.8	7052.7	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
76	16200.00	93.79	351.91	100	8844.1	7152.5	7081.3	-1006.8	7152.5	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
77	16300.00	93.79	351.91	100	8837.5	7252.3	7180.1	-1020.9	7252.3	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
78	16400.00	93.79	351.91	100	8830.8	7352.1	7278.9	-1034.9	7352.1	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
79	16500.00	93.79	351.91	100	8824.2	7451.9	7377.7	-1049.0	7451.9	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
80	16600.00	93.79	351.91	100	8817.6	7551.7	7476.5	-1063.0	7551.7	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
81	16700.00	93.79	351.91	100	8811.0	7651.4	7575.2	-1077.1	7651.4	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
82	16800.00	93.79	351.91	100	8804.4	7751.2	7674.0	-1091.1	7751.2	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
83	16900.00	93.79	351.91	100	8797.8	7851.0	7772.8	-1105.1	7851.0	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
84	17000.00	93.79	351.91	100	8791.2	7950.8	7871.6	-1119.2	7950.8	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
85	17100.00	93.79	351.91	100	8784.5	8050.6	7970.4	-1133.2	8050.6	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
86	17200.00	93.79	351.91	100	8777.9	8150.3	8069.2	-1147.3	8150.3	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
87	17300.00	93.79	351.91	100	8771.3	8250.1	8168.0	-1161.3	8250.1	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
88	17359.42	93.79	351.91	59.416	8767.4	8309.4	8226.7	-1169.7	8309.4	351.9	0.0	0.0	9318.2	-39.2	1.6369934	6.14	1E-10
89	17359.42	93.79	351.91	0	8767.4	8309.4	8226.7	-1169.7	8309.4	351.9	#DIV/0!	#DIV/0!	9318.2	-39.2	1.6369934	6.14	1E-10
90	17359.42	93.79	351.91	0	8767.4	8309.4	8226.7	-1169.7	8309.4	351.9	#DIV/0!	#DIV/0!	9318.2	-39.2	1.6369934	6.14	1E-10

Mewbourne Oil Company

SURVEY CALCULATION REPORT
Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Dragonstone 11/2 B2NK Fed Com 1H
KOP 8544.04
SL: 300 FSL & 1180 FWL; Sec 11M/18S/32E
PBHL: 2540 FSL & 1815 FWL; Sec 2K/18S/32E

Target KBTVD: 9,117 Feet 9117.00
Target Angle: 93.83 Degrees 93.83
Section Plane: 4.85 Degrees
Declination Corrected to True North: 6.63 Degrees
Bit to Survey Offset: 44 Feet

Survey No	Measured Depth-ft	Drift (Deg)	Azimuth (Deg)	Course Length	TVD (Feet)	Vertical Section	+N/-S (Feet)	+E/-W (Feet)	Closure Distance	Closure Direction	BUR	DLS	KBTVD	+Above -Below Target	DRIFT (RADIAN)	AZIMUTH (RADIAN)
T/I	8544.04	0.00	4.85	N/A	8544.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	8544.0	573.0	1E-12	0.08 #VALUE!
1	8637.87	9.38	4.85	93.828	8637.5	7.7	7.6	0.6	7.7	4.8	10.0	10.0	8638.0	479.0	0.1637612	0.08 0.1637612
2	8731.70	18.77	4.85	93.828	8728.4	30.5	30.3	2.6	30.5	4.8	10.0	10.0	8730.4	386.6	0.3275225	0.08 0.1637612
3	8825.53	28.15	4.85	93.828	8814.3	67.8	67.5	5.7	67.8	4.8	10.0	10.0	8818.9	298.1	0.4912837	0.08 0.1637612
4	8919.36	37.53	4.85	93.828	8893.1	118.6	118.2	10.0	118.6	4.8	10.0	10.0	8901.0	216.0	0.655045	0.08 0.1637612
5	9013.18	46.91	4.85	93.828	8962.5	181.6	180.9	15.3	181.6	4.8	10.0	10.0	8974.6	142.4	0.8188062	0.08 0.1637612
6	9107.01	56.30	4.85	93.828	9020.7	255.0	254.1	21.6	255.0	4.8	10.0	10.0	9037.8	79.2	0.9825674	0.08 0.1637612
7	9200.84	65.68	4.85	93.828	9066.2	337.0	335.8	28.5	337.0	4.8	10.0	10.0	9088.7	28.3	1.1463287	0.08 0.1637612
8	9294.67	75.06	4.85	93.828	9097.6	425.3	423.7	36.0	425.3	4.8	10.0	10.0	9126.1	-9.1	1.3100899	0.08 0.1637612
9	9388.50	84.45	4.85	93.828	9114.3	517.5	515.6	43.7	517.5	4.8	10.0	10.0	9148.9	-31.9	1.4738511	0.08 0.1637612
10	9482.32	93.83	4.85	93.828	9115.7	611.2	609.0	51.7	611.2	4.8	10.0	10.0	9156.6	-39.6	1.6376124	0.08 0.1637612
11	9500.00	93.83	4.85	17.675	9114.5	628.8	626.6	53.2	628.8	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
12	9600.00	93.83	4.85	100	9107.9	728.6	726.0	61.6	728.6	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
13	9700.00	93.83	4.85	100	9101.2	828.4	825.4	70.0	828.4	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
14	9800.00	93.83	4.85	100	9094.5	928.2	924.9	78.5	928.2	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
15	9900.00	93.83	4.85	100	9087.8	1028.0	1024.3	86.9	1028.0	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
16	10000.00	93.83	4.85	100	9081.2	1127.7	1123.7	95.3	1127.7	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
17	10100.00	93.83	4.85	100	9074.5	1227.5	1223.1	103.8	1227.5	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
18	10200.00	93.83	4.85	100	9067.8	1327.3	1322.5	112.2	1327.3	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
19	10300.00	93.83	4.85	100	9061.1	1427.1	1422.0	120.6	1427.1	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
20	10400.00	93.83	4.85	100	9054.5	1526.8	1521.4	129.1	1526.8	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
21	10500.00	93.83	4.85	100	9047.8	1626.6	1620.8	137.5	1626.6	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
22	10600.00	93.83	4.85	100	9041.1	1726.4	1720.2	145.9	1726.4	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
23	10700.00	93.83	4.85	100	9034.4	1826.2	1819.6	154.4	1826.2	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
24	10800.00	93.83	4.85	100	9027.7	1925.9	1919.1	162.8	1925.9	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
25	10900.00	93.83	4.85	100	9021.1	2025.7	2018.5	171.2	2025.7	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
26	11000.00	93.83	4.85	100	9014.4	2125.5	2117.9	179.7	2125.5	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
27	11100.00	93.83	4.85	100	9007.7	2225.3	2217.3	188.1	2225.3	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
28	11200.00	93.83	4.85	100	9001.0	2325.1	2316.7	196.6	2325.1	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
29	11300.00	93.83	4.85	100	8994.4	2424.8	2416.2	205.0	2424.8	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
30	11400.00	93.83	4.85	100	8987.7	2524.6	2515.6	213.4	2524.6	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
31	11500.00	93.83	4.85	100	8981.0	2624.4	2615.0	221.9	2624.4	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
32	11600.00	93.83	4.85	100	8974.3	2724.2	2714.4	230.3	2724.2	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
33	11700.00	93.83	4.85	100	8967.7	2823.9	2813.8	238.7	2823.9	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
34	11800.00	93.83	4.85	100	8961.0	2923.7	2913.2	247.2	2923.7	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
35	11900.00	93.83	4.85	100	8954.3	3023.5	3012.7	255.6	3023.5	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
36	12000.00	93.83	4.85	100	8947.6	3123.3	3112.1	264.0	3123.3	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
37	12100.00	93.83	4.85	100	8940.9	3223.0	3211.5	272.5	3223.0	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
38	12200.00	93.83	4.85	100	8934.3	3322.8	3310.9	280.9	3322.8	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
39	12300.00	93.83	4.85	100	8927.6	3422.6	3410.3	289.3	3422.6	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
40	12400.00	93.83	4.85	100	8920.9	3522.4	3509.8	297.8	3522.4	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
41	12500.00	93.83	4.85	100	8914.2	3622.2	3609.2	306.2	3622.2	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
42	12600.00	93.83	4.85	100	8907.6	3721.9	3708.6	314.6	3721.9	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
43	12700.00	93.83	4.85	100	8900.9	3821.7	3808.0	323.1	3821.7	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
44	12800.00	93.83	4.85	100	8894.2	3921.5	3907.4	331.5	3921.5	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
45	12900.00	93.83	4.85	100	8887.5	4021.3	4006.9	339.9	4021.3	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
46	13000.00	93.83	4.85	100	8880.9	4121.0	4106.3	348.4	4121.0	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
47	13100.00	93.83	4.85	100	8874.2	4220.8	4205.7	356.8	4220.8	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
48	13200.00	93.83	4.85	100	8867.5	4320.6	4305.1	365.2	4320.6	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
49	13300.00	93.83	4.85	100	8860.8	4420.4	4404.5	373.7	4420.4	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
50	13400.00	93.83	4.85	100	8854.2	4520.1	4504.0	382.1	4520.1	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
51	13500.00	93.83	4.85	100	8847.5	4619.9	4603.4	390.5	4619.9	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
52	13600.00	93.83	4.85	100	8840.8	4719.7	4702.8	399.0	4719.7	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
53	13700.00	93.83	4.85	100	8834.1	4819.5	4802.2	407.4	4819.5	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
54	13800.00	93.83	4.85	100	8827.4	4919.3	4901.6	415.9	4919.3	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
55	13900.00	93.83	4.85	100	8820.8	5019.0	5001.1	424.3	5019.0	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10
56	14000.00	93.83	4.85	100	8814.1	5118.8	5100.5	432.7	5118.8	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08 1E-10

57	14100.00	93.83	4.85	100	8807.4	5218.6	5199.9	441.2	5218.6	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
58	14200.00	93.83	4.85	100	8800.7	5318.4	5299.3	449.6	5318.4	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
59	14300.00	93.83	4.85	100	8794.1	5418.1	5398.7	458.0	5418.1	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
60	14400.00	93.83	4.85	100	8787.4	5517.9	5498.2	466.5	5517.9	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
61	14500.00	93.83	4.85	100	8780.7	5617.7	5597.6	474.9	5617.7	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
62	14600.00	93.83	4.85	100	8774.0	5717.5	5697.0	483.3	5717.5	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
63	14700.00	93.83	4.85	100	8767.4	5817.2	5796.4	491.8	5817.2	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
64	14800.00	93.83	4.85	100	8760.7	5917.0	5895.8	500.2	5917.0	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
65	14900.00	93.83	4.85	100	8754.0	6016.8	5995.3	508.6	6016.8	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
66	15000.00	93.83	4.85	100	8747.3	6116.6	6094.7	517.1	6116.6	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
67	15100.00	93.83	4.85	100	8740.6	6216.4	6194.1	525.5	6216.4	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
68	15200.00	93.83	4.85	100	8734.0	6316.1	6293.5	533.9	6316.1	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
69	15300.00	93.83	4.85	100	8727.3	6415.9	6392.9	542.4	6415.9	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
70	15400.00	93.83	4.85	100	8720.6	6515.7	6492.4	550.8	6515.7	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
71	15500.00	93.83	4.85	100	8713.9	6615.5	6591.8	559.2	6615.5	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
72	15600.00	93.83	4.85	100	8707.3	6715.2	6691.2	567.7	6715.2	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
73	15700.00	93.83	4.85	100	8700.6	6815.0	6790.6	576.1	6815.0	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
74	15800.00	93.83	4.85	100	8693.9	6914.8	6890.0	584.5	6914.8	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
75	15900.00	93.83	4.85	100	8687.2	7014.6	6989.5	593.0	7014.6	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
76	16000.00	93.83	4.85	100	8680.6	7114.3	7088.9	601.4	7114.3	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
77	16100.00	93.83	4.85	100	8673.9	7214.1	7188.3	609.9	7214.1	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
78	16200.00	93.83	4.85	100	8667.2	7313.9	7287.7	618.3	7313.9	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
79	16300.00	93.83	4.85	100	8660.5	7413.7	7387.1	626.7	7413.7	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
80	16400.00	93.83	4.85	100	8653.9	7513.5	7486.6	635.2	7513.5	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
81	16437.95	93.83	4.85	37.949	8651.3	7551.3	7524.3	638.4	7551.3	4.8	0.0	0.0	9156.6	-39.6	1.6376124	0.08	1E-10
82	16437.95	93.83	4.85	0	8651.3	7551.3	7524.3	638.4	7551.3	4.8	#DIV/0!	#DIV/0!	9156.6	-39.6	1.6376124	0.08	1E-10

Mewbourne Oil Company

SURVEY CALCULATION REPORT Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Dragonstone 11/2 B2ML Fed Com 1H
KOP 8529.04
SL: 300 FSL & 1150 FWL; Sec 11M/18S/32E
PBHL: 2540 FSL & 495 FWL; Sec 2L/18S/32E

Target KBTVD: 9,102 Feet 9102.00
Target Angle: 94.06 Degrees 94.06
Section Plane: 355.07 Degrees
Declination Corrected to True North: 6.63 Degrees
Bit to Survey Offset: 44 Feet

Survey No.	Measured Depth-ft	Drift (Deg.)	Azimuth (Deg.)	Course Length	TVD (Feet)	Vertical Section	+N/-S (Feet)	+E/-W (Feet)	Closure Distance	Closure Direction	BUR	DLS	KBTVD	+Above -Below Target	DRIFT (RADIANS)	AZIMUTH (RADIANS)
T/I	8529.04	0.00	355.07	N/A	8529.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	8529.0	573.0	1E-12	6.20 #VALUE!
1	8623.11	9.41	355.07	94.063	8622.7	7.7	7.7	-0.7	7.7	355.1	10.0	10.0	8623.2	478.8	0.1641716	6.20 0.1641716
2	8717.17	18.81	355.07	94.063	8713.8	30.6	30.5	-2.6	30.6	355.1	10.0	10.0	8716.0	386.0	0.3283431	6.20 0.1641716
3	8811.23	28.22	355.07	94.063	8800.0	68.1	67.8	-5.8	68.1	355.1	10.0	10.0	8804.8	297.2	0.4925147	6.20 0.1641716
4	8905.30	37.63	355.07	94.063	8878.8	119.2	118.7	-10.2	119.2	355.1	10.0	10.0	8887.3	214.7	0.6566862	6.20 0.1641716
5	8999.36	47.03	355.07	94.063	8948.3	182.4	181.8	-15.7	182.4	355.1	10.0	10.0	8961.3	140.7	0.8208578	6.20 0.1641716
6	9093.42	56.44	355.07	94.063	9006.5	256.2	255.3	-22.0	256.2	355.1	10.0	10.0	9024.7	77.3	0.9850294	6.20 0.1641716
7	9187.49	65.84	355.07	94.063	9051.8	338.5	337.2	-29.1	338.5	355.1	10.0	10.0	9075.9	26.1	1.1492009	6.20 0.1641716
8	9281.55	75.25	355.07	94.063	9083.1	427.1	425.5	-36.7	427.1	355.1	10.0	10.0	9113.5	-11.5	1.3133725	6.20 0.1641716
9	9375.61	84.66	355.07	94.063	9099.5	519.6	517.7	-44.6	519.6	355.1	10.0	10.0	9136.4	-34.4	1.4775441	6.20 0.1641716
10	9469.68	94.06	355.07	94.063	9100.6	613.6	611.3	-52.7	613.6	355.1	10.0	10.0	9144.1	-42.1	1.6417156	6.20 0.1641716
11	9500.00	94.06	355.07	30.324	9098.4	643.8	641.4	-55.3	643.8	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
12	9600.00	94.06	355.07	100	9091.3	743.6	740.8	-63.9	743.6	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
13	9700.00	94.06	355.07	100	9084.2	843.3	840.2	-72.4	843.3	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
14	9800.00	94.06	355.07	100	9077.2	943.1	939.6	-81.0	943.1	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
15	9900.00	94.06	355.07	100	9070.1	1042.8	1038.9	-89.6	1042.8	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
16	10000.00	94.06	355.07	100	9063.0	1142.5	1138.3	-98.1	1142.5	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
17	10100.00	94.06	355.07	100	9055.9	1242.3	1237.7	-106.7	1242.3	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
18	10200.00	94.06	355.07	100	9048.8	1342.0	1337.1	-115.3	1342.0	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
19	10300.00	94.06	355.07	100	9041.7	1441.8	1436.5	-123.8	1441.8	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
20	10400.00	94.06	355.07	100	9034.6	1541.5	1535.8	-132.4	1541.5	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
21	10500.00	94.06	355.07	100	9027.6	1641.3	1635.2	-141.0	1641.3	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
22	10600.00	94.06	355.07	100	9020.5	1741.0	1734.6	-149.5	1741.0	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
23	10700.00	94.06	355.07	100	9013.4	1840.8	1834.0	-158.1	1840.8	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
24	10800.00	94.06	355.07	100	9006.3	1940.5	1933.4	-166.7	1940.5	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
25	10900.00	94.06	355.07	100	8999.2	2040.3	2032.7	-175.2	2040.3	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
26	11000.00	94.06	355.07	100	8992.1	2140.0	2132.1	-183.8	2140.0	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
27	11100.00	94.06	355.07	100	8985.0	2239.8	2231.5	-192.4	2239.8	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
28	11200.00	94.06	355.07	100	8977.9	2339.5	2330.9	-200.9	2339.5	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
29	11300.00	94.06	355.07	100	8970.9	2439.3	2430.3	-209.5	2439.3	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
30	11400.00	94.06	355.07	100	8963.8	2539.0	2529.6	-218.1	2539.0	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
31	11500.00	94.06	355.07	100	8956.7	2638.8	2629.0	-226.6	2638.8	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
32	11600.00	94.06	355.07	100	8949.6	2738.5	2728.4	-235.2	2738.5	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
33	11700.00	94.06	355.07	100	8942.5	2838.3	2827.8	-243.8	2838.3	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
34	11800.00	94.06	355.07	100	8935.4	2938.0	2927.2	-252.3	2938.0	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
35	11900.00	94.06	355.07	100	8928.3	3037.8	3026.5	-260.9	3037.8	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
36	12000.00	94.06	355.07	100	8921.3	3137.5	3125.9	-269.5	3137.5	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
37	12100.00	94.06	355.07	100	8914.2	3237.3	3225.3	-278.1	3237.3	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
38	12200.00	94.06	355.07	100	8907.1	3337.0	3324.7	-286.6	3337.0	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
39	12300.00	94.06	355.07	100	8900.0	3436.8	3424.1	-295.2	3436.8	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
40	12400.00	94.06	355.07	100	8892.9	3536.5	3523.4	-303.8	3536.5	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
41	12500.00	94.06	355.07	100	8885.8	3636.3	3622.8	-312.3	3636.3	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
42	12600.00	94.06	355.07	100	8878.7	3736.0	3722.2	-320.9	3736.0	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
43	12700.00	94.06	355.07	100	8871.7	3835.8	3821.6	-329.5	3835.8	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
44	12800.00	94.06	355.07	100	8864.6	3935.5	3921.0	-338.0	3935.5	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
45	12900.00	94.06	355.07	100	8857.5	4035.3	4020.3	-346.6	4035.3	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
46	13000.00	94.06	355.07	100	8850.4	4135.0	4119.7	-355.2	4135.0	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
47	13100.00	94.06	355.07	100	8843.3	4234.8	4219.1	-363.7	4234.8	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
48	13200.00	94.06	355.07	100	8836.2	4334.5	4318.5	-372.3	4334.5	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
49	13300.00	94.06	355.07	100	8829.1	4434.3	4417.9	-380.9	4434.3	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
50	13400.00	94.06	355.07	100	8822.1	4534.0	4517.2	-389.4	4534.0	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
51	13500.00	94.06	355.07	100	8815.0	4633.8	4616.6	-398.0	4633.8	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
52	13600.00	94.06	355.07	100	8807.9	4733.5	4716.0	-406.6	4733.5	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
53	13700.00	94.06	355.07	100	8800.8	4833.2	4815.4	-415.1	4833.2	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
54	13800.00	94.06	355.07	100	8793.7	4933.0	4914.8	-423.7	4933.0	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
55	13900.00	94.06	355.07	100	8786.6	5032.7	5014.1	-432.3	5032.7	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10
56	14000.00	94.06	355.07	100	8779.5	5132.5	5113.5	-440.8	5132.5	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20 1E-10

57	14100.00	94.06	355.07	100	8772.5	5232.2	5212.9	-449.4	5232.2	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
58	14200.00	94.06	355.07	100	8765.4	5332.0	5312.3	-458.0	5332.0	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
59	14300.00	94.06	355.07	100	8758.3	5431.7	5411.7	-466.5	5431.7	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
60	14400.00	94.06	355.07	100	8751.2	5531.5	5511.0	-475.1	5531.5	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
61	14500.00	94.06	355.07	100	8744.1	5631.2	5610.4	-483.7	5631.2	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
62	14600.00	94.06	355.07	100	8737.0	5731.0	5709.8	-492.2	5731.0	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
63	14700.00	94.06	355.07	100	8729.9	5830.7	5809.2	-500.8	5830.7	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
64	14800.00	94.06	355.07	100	8722.9	5930.5	5908.6	-509.4	5930.5	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
65	14900.00	94.06	355.07	100	8715.8	6030.2	6007.9	-517.9	6030.2	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
66	15000.00	94.06	355.07	100	8708.7	6130.0	6107.3	-526.5	6130.0	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
67	15100.00	94.06	355.07	100	8701.6	6229.7	6206.7	-535.1	6229.7	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
68	15200.00	94.06	355.07	100	8694.5	6329.5	6306.1	-543.6	6329.5	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
69	15300.00	94.06	355.07	100	8687.4	6429.2	6405.5	-552.2	6429.2	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
70	15400.00	94.06	355.07	100	8680.3	6529.0	6504.8	-560.8	6529.0	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
71	15500.00	94.06	355.07	100	8673.3	6628.7	6604.2	-569.3	6628.7	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
72	15600.00	94.06	355.07	100	8666.2	6728.5	6703.6	-577.9	6728.5	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
73	15700.00	94.06	355.07	100	8659.1	6828.2	6803.0	-586.5	6828.2	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
74	15800.00	94.06	355.07	100	8652.0	6928.0	6902.4	-595.0	6928.0	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
75	15900.00	94.06	355.07	100	8644.9	7027.7	7001.7	-603.6	7027.7	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
76	16000.00	94.06	355.07	100	8637.8	7127.5	7101.1	-612.2	7127.5	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
77	16100.00	94.06	355.07	100	8630.7	7227.2	7200.5	-620.7	7227.2	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
78	16200.00	94.06	355.07	100	8623.6	7327.0	7299.9	-629.3	7327.0	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
79	16300.00	94.06	355.07	100	8616.6	7426.7	7399.3	-637.9	7426.7	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
80	16400.00	94.06	355.07	100	8609.5	7526.5	7498.6	-646.5	7526.5	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
81	16425.29	94.06	355.07	25.29	8607.7	7551.7	7523.8	-648.6	7551.7	355.1	0.0	0.0	9144.1	-42.1	1.6417156	6.20	1E-10
82	16425.29	94.06	355.07	0	8607.7	7551.7	7523.8	-648.6	7551.7	355.1	#DIV/0!	#DIV/0!	9144.1	-42.1	1.6417156	6.20	1E-10