

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

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

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

Case No. 20498

VERIFIED STATEMENT OF RAYMOND WINKELJOHN

Raymond Winkeljohn, being duly sworn upon his oath, deposes and states:

1. I am a landman for Mewbourne Oil Company ("Mewbourne"), and have personal knowledge of the matters stated herein. I have been qualified by the Division as an expert petroleum landman.

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

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

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

(c) A plat outlining the unit being pooled is attached hereto as Attachment A. Mewbourne seeks an order approving a 640.00-acre horizontal spacing unit in the Wolfcamp formation comprised of the S/2 of Section 12 and the S/2 of Section 11, Township 23 South, Range 26 East, NMPM. Mewbourne further seeks the pooling of all mineral interests in the Wolfcamp formation underlying the unit. The unit will be dedicated to the Wingman 12/11 W01L Fed Com #1H, a horizontal well with a first take point in Unit I of Section 12 and a final take point in Unit L of Section 11, and the Wingman 12/11 W0PM Fed Com #1H, a horizontal well with a first take point in Unit P of Section 12 and a final take point in Unit M of Section 11.

(d) There is no depth severance in the Wolfcamp formation.

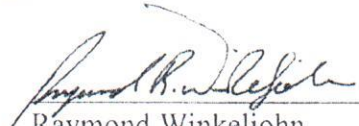
EXHIBIT |

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

VERIFICATION

STATE OF TEXAS)
) ss.
COUNTY OF MIDLAND)


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



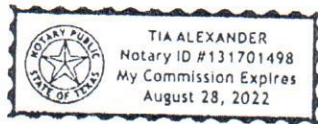
Raymond Winkeljohn

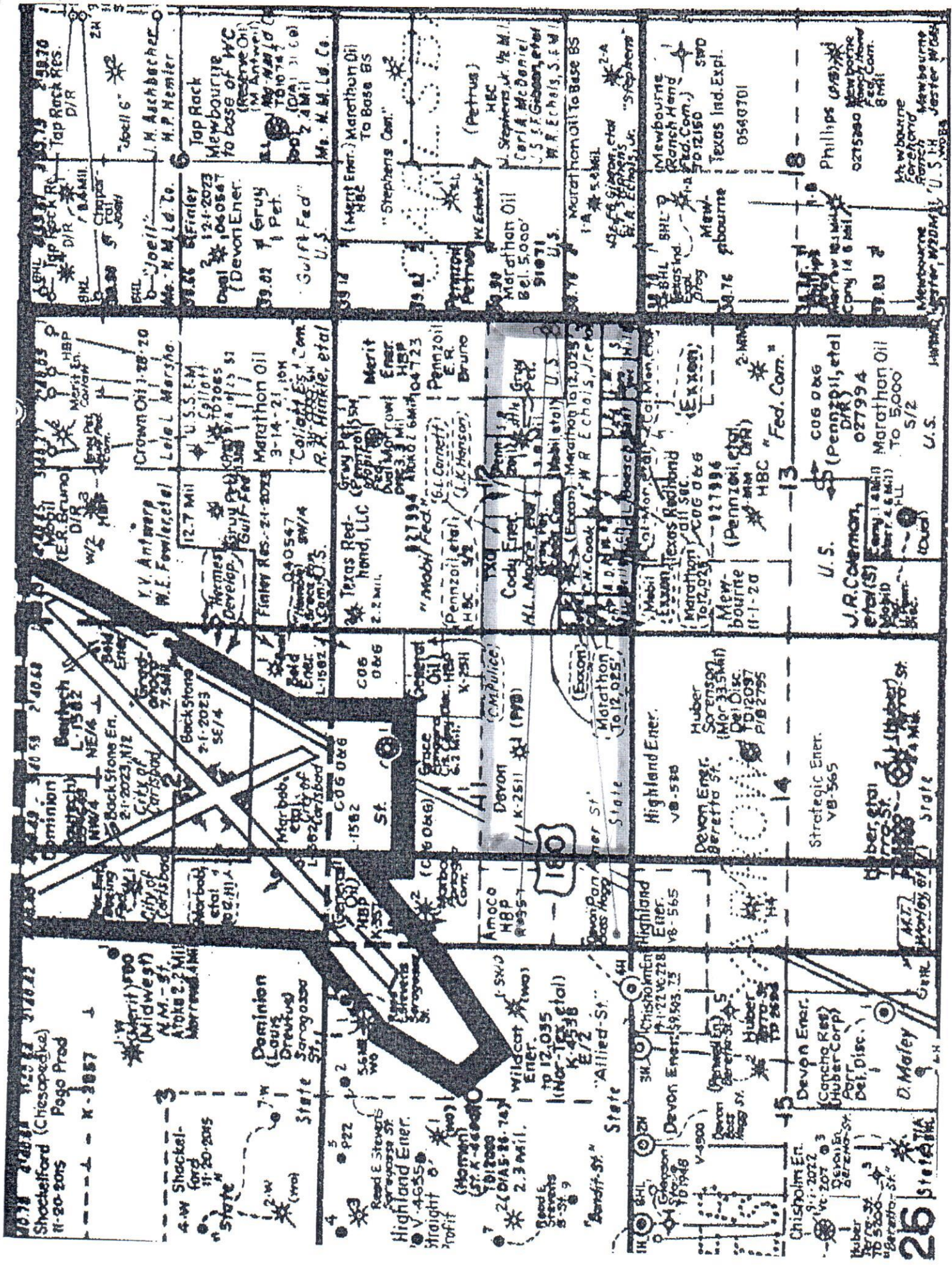
SUBSCRIBED AND SWORN TO before me this 11 day of June 2019 by
Raymond Winkeljohn.

My Commission Expires: 8-28-22



Notary Public





TRACT OWNERSHIP
Wingman 12/11 W0IL Fed Com #1H
Wingman 12/11 W0PM State Com #1H
Section 12 (S/2), T23S, R26E
Section 11 (S/2), T23S, R26E
Eddy County, New Mexico

Section 12: S/2, Section 11: S/2:
Wolfcamp formation:

	<u>% Leasehold Interest</u>
Mewbourne Oil Company, et al 500 West Texas, Ste. 1020 Midland, Texas 79701	44.674515%
*Chisholm Energy Operating, LLC 801 Cherry Street, Suite 1200 – Unit 20 Fort Worth, Texas 76102 Attn: Land Manager	45.453126%
*WPX Energy Permian, LLC 3500 One Williams Center, Suite 3500 Tulsa, Oklahoma 74172 Attn: Aaron Young	8.383047%
*Warwick-Ares LLC 6608 N. Western Avenue #417 Oklahoma City, Oklahoma 73116 Attn: Land Manager	0.942438%
*W.B. Macey P.O. Box 2210 Denver, Colorado 80201-2210	<u>0.546874%</u> 100.000000%

*** Total interest being pooled: 55.325485%**

Summary of Communications
Wingman 12/11 W0IL Fed Com #1H
Wingman 12/11 W0PM State Com #1H

Chisholm Energy Operating, LLC

- 1) 1/21/2019: Mailed well proposal letter with AFEs via certified mail. Receipt attached.
- 2) 2/12/2019: Phone conversation discussing the proposals.
- 3) Have not received Chisholm's election.

WPX Energy Permian, LLC

- 1) 1/21/2019: Mailed well proposal letter with AFEs via certified mail.
- 2) 1/24/2019: Received email about the wells.
- 3) 1/28/2019: Sent email responding to questions.
- 4) 2/20/2019: Received email with WPX signed AFEs. Still waiting on JOA.
- 5) 5/14/2019: Sent email about the prospect.
- 6) 5/20/2019: Email chain discussing the prospect.
- 7) Multiple phone conversations discussing the prospect over the above time period.
- 8) Have not received WPX's executed operating agreement.

Warwick-Ares LLC

- 1) 1/21/2019: Mailed well proposal letter with AFEs via certified mail. Receipt attached.
- 2) 1/28-30/2019: Email chain discussing the prospect.
- 3) 4/3-4/2019: Email chain discussing the prospect/election.
- 4) 5/2/2019: Email chain discussing the prospect.
- 5) 5/29/2019: Received email from Warwick asking questions about the wells.
- 6) 6/4/2019: Sent email answering Warwick's questions.
- 7) Have not received Warwick's election.

W.B. Macey

- 1) 1/21/2019: Mailed well proposal letter with AFEs via certified mail. Letter returned.
- 2) 2/14/2019: Mailed well proposal letter with AFEs via certified mail to additional address. Letter returned.
- 3) Unable to locate.

MEWBOURNE OIL COMPANY

500 West Texas, Suite 1020

Midland, Texas 79701

Phone (432) 682-3715

Fax (432) 685-4170

January 21, 2019

Via: Certified Mail

Chisholm Energy Operating, LLC
801 Cherry Street, Suite 1200-Unit 20
Fort Worth, Texas 76102
Attn: Beau Sullivan

Re: Proposed Horizontal Wolfcamp Wells
Wingman 12/11 W0AD Fed Com #1H
Wingman 12/11 W0HE Fed Com #1H
Wingman 12/11 W0IL Fed Com #1H
Wingman 12/11 W0PM State Com #1H
All of Section 11, T23S-R26E
All of Section 12, T23S-R26E
Eddy County, New Mexico

Dear Ladies and Gentlemen:

Mewbourne Oil Company ("Mewbourne") as Operator hereby proposes to form a 1280.00 acre Working Interest Unit ("WIU") covering all of the above captioned Section 11 and all of the above captioned Section 12 for oil and gas production. The targeted interval for the proposed unit is the Wolfcamp formation. Mewbourne hereby proposes to drill and operate the following horizontal Wolfcamp wells:

1. Wingman 12/11 W0AD Fed Com #1H located at a surface location 1500' FNL & 205' FEL of Section 12, T23S, R26E, with a bottom hole location 440' FNL & 330' FWL of Section 11, T23S, R26E, of the above captioned lands. We anticipate drilling to an approximate total vertical depth of 8,895' and plan to continue drilling horizontally to the west to the proposed bottom hole location at an approximate total measured depth of 18,940'.
2. Wingman 12/11 W0HE Fed Com #1H located at a surface location 1530' FNL & 205' FEL of Section 12, T23S, R26E, with a bottom hole location 1900' FNL & 330' FWL of Section 11, T23S, R26E, of the above captioned lands. We anticipate drilling to an approximate total vertical depth of 8,885' and plan to continue drilling horizontally to the west to the proposed bottom hole location at an approximate total measured depth of 18,890'.
3. Wingman 12/11 W0IL Fed Com #1H located at a surface location 1530' FSL & 205' FEL of Section 12, T23S, R26E, with a bottom hole location 1900' FSL & 330' FWL of Section 11, T23S, R26E, of the above captioned lands. We anticipate drilling to an approximate total vertical depth of 8,875' and plan to continue drilling horizontally to the west to the proposed bottom hole location at an approximate total measured depth of 18,875'.
4. Wingman 12/11 W0PM State Com #1H located at a surface location 1500' FSL & 205' FEL of Section 12, T23S, R26E, with a bottom hole location 440' FSL & 330' FWL of Section 11, T23S, R26E, of the above captioned lands. We anticipate drilling to an approximate total vertical depth of 8,875' and plan to continue drilling horizontally to the west to the proposed bottom hole location at an approximate total measured depth of 18,905'.

Regarding the above, enclosed for your further handling and information is a copy of our Authorization For Expenditure ("AFE") for each of the above wells. Please indicate your participation election by having the AFEs executed and returned to my attention at the above address within thirty (30) days of receipt hereof.

Also attached for your review is a copy of our proposed Joint Operating Agreement dated January 15, 2019, by and between Mewbourne Oil Company as Operator, and WPX Energy Permian, LLC, et al, as Non-Operators.

Feel free to contact me at (432) 682-3715 or via email at rwinkeljohn@mewbourne.com if you have any questions or concerns. I look forward to hearing from you.

Sincerely,

MEWBOURNE OIL COMPANY



Ray Winkeljohn
Landman



January 25, 2019

Dear Simple Certified:

The following is in response to your request for proof of delivery on your item with the tracking number:
9414 8106 9994 5038 0260 26.

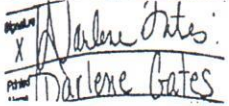

Item Details

Status: Delivered, Front Desk/Reception/Mail Room
Status Date / Time: January 25, 2019, 1:02 pm
Location: FORT WORTH, TX 76102
Postal Product: First-Class Mail®
Extra Services: Certified Mail™
Return Receipt Electronic
Recipient Name: Chisholm Energy Agent Inc

Shipment Details

Weight: 1.0oz

Recipient Signature

Signature of Recipient:	
Address of Recipient:	

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Sincerely,
United States Postal Service®
475 L'Enfant Plaza SW
Washington, D.C. 20260-0004

Chisholm Energy Agent, Inc
Attn: Land Manager
801 CHERRY ST UNIT 20 STE 1200
FORT WORTH, TX 76102
Reference #: Pavo Frio 29 30 Prospect TJ
Item ID: Pavo Frio 29 30 Prospect

MEWBOURNE OIL COMPANY

500 West Texas, Suite 1020

Midland, Texas 79701

Phone (432) 682-3715

Fax (432) 685-4170

January 21, 2019

Via: Certified Mail

WPX Energy Permian, LLC
3500 One Williams Center, Suite 3500
Tulsa, Oklahoma 74172
Attn: Aaron Young

Re: Proposed Horizontal Wolfcamp Wells
Wingman 12/11 W0AD Fed Com #1H
Wingman 12/11 W0HE Fed Com #1H
Wingman 12/11 W0IL Fed Com #1H
Wingman 12/11 W0PM State Com #1H
All of Section 11, T23S-R26E
All of Section 12, T23S-R26E
Eddy County, New Mexico

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3. Wingman 12/11 W0IL Fed Com #1H located at a surface location 1530' FSL & 205' FEL of Section 12, T23S, R26E, with a bottom hole location 1900' FSL & 330' FWL of Section 11, T23S, R26E, of the above captioned lands. We anticipate drilling to an approximate total vertical depth of 8,875' and plan to continue drilling horizontally to the west to the proposed bottom hole location at an approximate total measured depth of 18,875'.
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Also attached for your review is a copy of our proposed Joint Operating Agreement dated January 15, 2019, by and between Mewbourne Oil Company as Operator, and WPX Energy Permian, LLC, et al, as Non-Operators.

Feel free to contact me at (432) 682-3715 or via email at rwinkeljohn@mewbourne.com if you have any questions or concerns. I look forward to hearing from you.

Sincerely,

MEWBOURNE OIL COMPANY

A handwritten signature in dark ink, appearing to read "Ray Winkeljohn", is written over the printed name.

Ray Winkeljohn
Landman

MEWBOURNE OIL COMPANY

500 West Texas, Suite 1020

Midland, Texas 79701

Phone (432) 682-3715

Fax (432) 685-4170

January 21, 2019

Via: Certified Mail

Warwick-Ares LLC

6608 N. Western Avenue #417

Oklahoma City, Oklahoma 73116

Attn: Land Manager

Re: Proposed Horizontal Wolfcamp Wells
Wingman 12/11 W0AD Fed Com #1H
Wingman 12/11 W0HE Fed Com #1H
Wingman 12/11 W0IL Fed Com #1H
Wingman 12/11 W0PM State Com #1H
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All of Section 12, T23S-R26E
Eddy County, New Mexico

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Sincerely,

MEWBOURNE OIL COMPANY

A handwritten signature in dark ink, appearing to read "Ray Winkeljohn", written over the printed name.

Ray Winkeljohn
Landman



January 24, 2019

Dear Simple Certified:

The following is in response to your request for proof of delivery on your item with the tracking number:
9402 8106 9994 5038 0297 63.

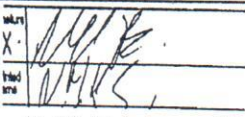
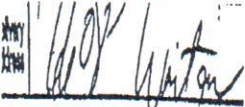
Item Details

Status: Delivered, Left with Individual
Status Date / Time: January 24, 2019, 10:22 am
Location: OKLAHOMA CITY, OK 73116
Postal Product: Priority Mail®
Extra Services: Certified Mail™
Return Receipt Electronic
Up to \$50 insurance included
Recipient Name: Attn Land Manager

Shipment Details

Weight: 2lb, 0.0oz

Recipient Signature

Signature of Recipient:	
Address of Recipient:	

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Sincerely,
United States Postal Service®
475 L'Enfant Plaza SW
Washington, D.C. 20260-0004

Attn: Land Manager
Warwick-Ares, LLC
6608 N Western Avenue #417
Oklahoma City, OK 73116
Reference #: Wingman Horizontal Wolfcamp Prop RW
Item ID: Wingman Horizontal Wolfcamp Prop

MEWBOURNE OIL COMPANY

500 West Texas, Suite 1020

Midland, Texas 79701

Phone (432) 682-3715

Fax (432) 685-4170

February 14, 2019

Via: Certified Mail

W.B. Macey
4706 Lake Forest Dr
Papillion, NE 68133

Re: Proposed Horizontal Wolfcamp Wells
Wingman 12/11 W0AD Fed Com #1H
Wingman 12/11 W0HE Fed Com #1H
Wingman 12/11 W0IL Fed Com #1H
Wingman 12/11 W0PM State Com #1H
All of Section 11, T23S-R26E
All of Section 12, T23S-R26E
Eddy County, New Mexico

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Regarding the above, enclosed for your further handling and information is a copy of our Authorization For Expenditure ("AFE's") for each of the above wells. Please indicate your participation election by having the AFEs executed and returned to my attention at the above address within thirty (30) days of receipt hereof. If you wish to participate, in the above wells, please let me know and I will provide a complete copy of the Operating Agreement for your review.

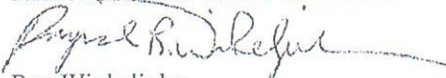
In lieu of participation, Mewbourne hereby offers \$8,750.00 (\$2,500.00 per net acre) for an Assignment covering all of your interest. Should you decide to assign your interest, please execute the below signature block and return to my attention at the above address for further handling.

The above Lease offer is made subject to title review, assignment form, and final management approval.

Feel free to contact me at (432) 682-3715 or via email at rwinkeljohn@mewbourne.com if you have any questions or concerns. I look forward to hearing from you.

Sincerely,

MEWBOURNE OIL COMPANY



Ray Winkeljohn
Landman

The undersigned agrees to the above referenced terms this _____ day of _____, 2018.

W.B. Macey

By: _____



January 26, 2019

Dear Simple Certified:

The following is in response to your request for proof of delivery on your item with the tracking number:
9402 8106 9994 5038 0299 16.

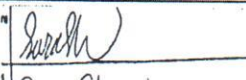
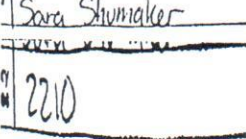
Item Details

Status: Delivered
Status Date / Time: January 25, 2019, 12:30 pm
Location: DENVER, CO 80202
Postal Product: Priority Mail®
Extra Services: Certified Mail™
Return Receipt Electronic
Up to \$50 insurance included
Recipient Name: W B Macey

Shipment Details

Weight: 2lb, 0.0oz

Recipient Signature

Signature of Recipient:	
Address of Recipient:	

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Sincerely,
United States Postal Service®
475 L'Enfant Plaza SW
Washington, D.C. 20260-0004

W.B. Macey
po box 2210
Denver, CO 80201
Reference #: Wingman Horizontal Wolfcamp Prop RW
Item ID: Wingman Horizontal Wolfcamp Prop



March 18, 2019

Dear Simple Certified:

The following is in response to your request for proof of delivery on your item with the tracking number:
9414 8106 9994 5038 5798 74.



Item Details

Status:	Delivered, To Original Sender
Status Date / Time:	March 18, 2019, 4:20 pm
Location:	MIDLAND, TX 79701
Postal Product:	First-Class Mail®
Extra Services:	Certified Mail™
	Return Receipt Electronic
Recipient Name:	W B Macey

Shipment Details

Weight:	2.0oz
---------	-------

Recipient Signature

Signature of Recipient:	
Address of Recipient:	

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

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Sincerely,
United States Postal Service®
475 L'Enfant Plaza SW
Washington, D.C. 20260-0004

W.B. Macey
4706 Lake Forest Dr
Papillion, NE 68133
Reference #: Wingman Prop RW
Item ID: Wingman Prop RW

MEWBOURNE OIL COMPANY

AUTHORIZATION FOR EXPENDITURE

Well Name: Wingman 12/11 W01L Fed Com #1H		Prospect: Wolfcamp Y Sand	
Location: SL: 1530' FSL & 205' FEL (12); BHL: 1900' FSL & 330' FWL (11)		County: Eddy	ST: NM
Sec: 12/11	Blk: 	Survey: 	TWP: 23S RNG: 26E Prop. TVD: 8875 TMD: 18875

INTANGIBLE COSTS 0180	CODE	TCP	CODE	CC
Regulatory Permits & Surveys	0180-0100	\$20,000	0180-0200	
Location / Road / Site / Preparation	0180-0105	\$50,000	0180-0205	\$25,000
Location / Restoration	0180-0106	\$200,000	0180-0206	\$30,000
Daywork / Turnkey / Footage Drilling 30 days drlg / 4 days comp @ \$22,000/d	0180-0110	\$705,000	0180-0210	\$94,000
Fuel 1700 gal/day @ 2.70/gal	0180-0114	\$169,200	0180-0214	\$520,000
Mud, Chemical & Additives	0180-0120	\$225,000	0180-0220	
Horizontal Drillout Services Coil Tbg Drillout			0180-0222	\$260,000
Cementing	0180-0125	\$80,000	0180-0225	\$45,000
Logging & Wireline Services	0180-0130	\$2,000	0180-0230	\$480,000
Casing / Tubing / Snubbing Service	0180-0134	\$20,000	0180-0234	\$90,000
Mud Logging	0180-0137	\$20,000		
Stimulation 61 Stg 24.7 MM gal / 24.7 MM lb			0180-0241	\$3,110,000
Stimulation Rentals & Other			0180-0242	\$200,000
Water & Other	0180-0145	\$60,000	0180-0245	\$700,000
Bits	0180-0148	\$90,000	0180-0248	\$8,000
Inspection & Repair Services	0180-0150	\$40,000	0180-0250	\$5,000
Misc. Air & Pumping Services	0180-0154		0180-0254	\$10,000
Testing & Flowback Services	0180-0158	\$15,000	0180-0258	\$30,000
Completion / Workover Rig			0180-0260	\$10,500
Rig Mobilization	0180-0164	\$150,000		
Transportation	0180-0165	\$20,000	0180-0265	\$20,000
Welding Services	0180-0168	\$5,000	0180-0268	\$15,000
Contract Services & Supervision	0180-0170	\$49,500	0180-0270	\$42,000
Directional Services Includes Vertical Control	0180-0175	\$280,000		
Equipment Rental	0180-0180	\$256,900	0180-0280	\$30,000
Well / Lease Legal	0180-0184	\$5,000	0180-0284	
Well / Lease Insurance	0180-0185	\$5,700	0180-0285	
Intangible Supplies	0180-0188	\$8,000	0180-0288	\$10,000
Damages	0180-0190	\$5,000	0180-0290	
ROW & Easements	0180-0192		0180-0292	\$5,000
Pipeline Interconnect			0180-0293	
Company Supervision	0180-0195	\$158,400	0180-0295	\$134,400
Overhead Fixed Rate	0180-0196	\$10,000	0180-0296	\$20,000
Well Abandonment	0180-0198		0180-0298	
Contingencies 2% (TCP) 2% (CC)	0180-0199	\$53,000	0180-0299	\$117,900
TOTAL		\$2,702,700		\$6,011,800

TANGIBLE COSTS 0181	CODE	TCP	CODE	CC
Casing (19.1" - 30")	0181-0793			
Casing (10.1" - 19.0") 400' - 13 3/8" 54.5# J-55 ST&C @ \$42.09/ft	0181-0794	\$18,400		
Casing (8.1" - 10.0") 1900' - 9 5/8" 40# J-55 LT&C @ \$33.35/ft	0181-0795	\$67,700		
Casing (6.1" - 8.0") 9055' - 7" 29# P-110 LT&C @ \$28.96/ft	0181-0796	\$280,100		
Casing (4.1" - 6.0") 10350' - 4 1/2" 13.5# P-110 LTC @ \$14.94/ft			0181-0797	\$165,200
Tubing (2" - 4") 8470' - 2 7/8" 6.5# L-80 EUE 8rd @ \$5.74/ft			0181-0798	\$52,000
Drilling Head	0181-0860	\$40,000		
Tubing Head & Upper Section			0181-0870	\$30,000
Horizontal Completion Tools Completion Liner Hanger			0181-0871	\$75,000
Sucker Rods			0181-0875	
Subsurface Equipment			0181-0880	
Artificial Lift Systems GLVs & pkr			0181-0884	\$25,000
Pumping Unit			0181-0885	
Surface Pumps & Prime Movers 1/2 VRU/SWD Pump/Circ Pump			0181-0886	\$35,000
Tanks - Oil 3 - 750 bbl			0181-0890	\$55,000
Tanks - Water 3 - 750 bbl			0181-0891	\$60,000
Separation / Treating Equipment 30"x10"x1k# 3 ph/36"x15"x1k# Hor 3ph/Cun bbl			0181-0895	\$65,000
Heater Treaters, Line Heaters 8"x20"x75# HT			0181-0897	\$30,000
Metering Equipment			0181-0898	\$14,000
Line Pipe & Valves - Gathering			0181-0900	\$60,000
Fittings / Valves & Accessories			0181-0906	\$60,000
Cathodic Protection			0181-0908	\$8,000
Electrical Installation			0181-0909	\$50,000
Equipment Installation			0181-0910	\$50,000
Pipeline Construction			0181-0920	\$75,000
TOTAL		\$406,200		\$909,200
SUBTOTAL		\$3,108,900		\$6,921,000

TOTAL WELL COST	\$10,029,900
------------------------	---------------------

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: <u>T. Cude</u>	Date: <u>11/5/2018</u>
Company Approval: _____	Date: _____
Joint Owner Interest: _____ Amount: _____	
Joint Owner Name: _____	Signature: _____

AUTHORIZATION FOR EXPENDITURE

Extra Expense Insurance <input type="checkbox"/> 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. <input type="checkbox"/> 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: _____ T. Cude _____ Company Approval: _____	Date: <u>11/5/2018</u> Date: _____
Joint Owner Interest: _____ Amount: _____ Joint Owner Name: _____ Signature: _____	

JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

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

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

jamesbruc@aol.com

May 23, 2019

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

To: Persons on Exhibit A

Ladies and gentlemen:

Enclosed is a copy of an application for compulsory pooling, filed with the New Mexico Oil Conservation Division by Mewbourne Oil Company, regarding two Wolfcamp wells in a well unit comprised of the S/2 of Section 11 and the S/2 of Section 12, Township 23 South, Range 26 East, NMPM, Eddy County, New Mexico.

This matter is scheduled for hearing at 8:15 a.m. on Thursday, June 13, 2019, in Porter Hall at the Division's offices at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest who may be affected by the application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from contesting this matter at a later date.

A party appearing in a Division case is required by Division Regulations to file a Pre-Hearing Statement no later than Thursday, June 6, 2019. This statement must be filed with the Division's Santa Fe office at the above address, and should include: The names of the party and his or her attorney; a concise statement of the case; the names of the witnesses the party will call to testify at the hearing; the approximate time the party will need to present its case; and identification of any procedural matters that need to be resolved prior to the hearing

Very truly yours,


James Bruce

Attorney for Mewbourne Oil Company

EXHIBIT 2

WPX Energy Permian, LLC
3500 One Williams Center, Suite 3500
Tulsa, Oklahoma 74172
Attn: Aaron Young

Warwick-Ares LLC
6608 N. Western Avenue #417
Oklahoma City, Oklahoma 73116
Attn: Land Manager

Grasslands Energy LP
5128 Apache Plume Road, Suite 300
Fort Worth, Texas 76102
Attn: Land Manager

Chisholm Energy Operating, LLC
801 Cherry Street, Suite 1200 -- Unit 20
Fort Worth, Texas 76102
Attn: Land Manager

W.B. Macey
P.O. Box 2210
Denver, Colorado 80201-2210

EXHIBIT

A

7018 2290 0000 3433 4310

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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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

W.R. Macey

Street and Apt. No., or P.O. Box

P.O. Box 2210

City, State, ZIP+4®

Denver, Colorado 80201-2210

Postmark
Here

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

See Reverse for Instructions

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- ☐ Return Receipt (hardcopy) \$
☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

Postage

\$

Total Postage and Fees

\$

Sent To

Chisholm Energy Operating, L.L.C.

Street and Apt. No., or P.O. Box

801 Cherry Street, Suite 1200 -- Unit 20

City, State, ZIP+4®

Fort Worth, Texas 76102

Postmark
Here

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

See Reverse for Instructions

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- ☐ Return Receipt (hardcopy) \$
☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

Postage

\$

Total Postage and Fees

\$

Sent To

Grasslands Energy L.P.

Street and Apt. No., or P.O. Box

5128 Apache Plume Road, Suite 300

City, State, ZIP+4®

Fort Worth, Texas 76102

Postmark
Here

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

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- ☐ Return Receipt (hardcopy) \$
☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

Postage

\$

Total Postage and Fees

\$

Sent To

Warwick-Ares L.L.C.

Street and Apt. No., or P.O. Box

6608 N. Western Avenue #417

City, State, ZIP+4®

Oklahoma City, Oklahoma 73116

Postmark
Here

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

See Reverse for Instructions

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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

WPX Energy Permian, L.L.C.

Street and Apt. No., or P.O. Box No.

3500 One Williams Center, Suite 3500

City, State, ZIP+4®

Tulsa, Oklahoma 74172

Postmark
Here

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

See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

Crasslands Energy L.P.
5128 Apache Plume Road, Suite 300
Fort Worth, Texas 76102



9590 9402 4821 9032 2669 35

2. Ar

7018 2290 0000 3433 4334

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- ☐ Agent
- ☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

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

THAUSE

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

Warwick-Ares LLC
6608 N. Western Avenue #417
Oklahoma City, Oklahoma 73116



9590 9402 4821 9032 2669 42

2.

7018 2290 0000 3433 4341

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- ☐ Agent
- ☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

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

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

☐ Insured Mail Restricted Delivery (over \$500)

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

Chisholm Energy Operating, L.L.C.
801 Cherry Street, Suite 1200 -- Unit 20
Fort Worth, Texas 76102



9590 9402 4821 9032 2669 28

2. Article Number (Transfer from service label)

7018 2290 0000 3433 4327

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Thelene Gates☐ Agent
☐ Addressee

B. Received by (Printed Name)

Thelene Gates

C. Date of Delivery

*6/7/19*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

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

Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

WPX Energy Permian, L.L.C.
3500 One Williams Center, Suite 3500
Tulsa, Oklahoma 74172



9590 9402 4821 9032 2669 59

2. Article Number (Transfer from service label)

7018 2290 0000 3433 4358

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Paul A. Williams☒ Agent
☐ Addressee

B. Received by (Printed Name)

PAUL A. WILLIAMS

C. Date of Delivery

*6-7-2019*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

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

Restricted Delivery

Domestic Return Receipt

CARLSBAD CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

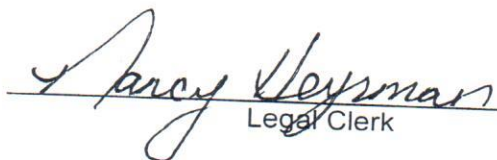
Ad No.
0001287234

JAMES BRUCE ATTORNEY AT LAW
PO BOX 1056

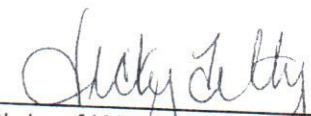
SANTA FE NM 87504

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

05/30/19


Legal Clerk

Subscribed and sworn before me this
30th of May 2019.


State of WI, County of Brown
NOTARY PUBLIC

9-19-21
My Commission Expires

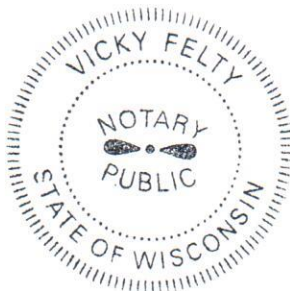
Ad#:0001287234
P O : WPX
of Affidavits :0.00

NOTICE

To: WPX Energy Permian LLC, Warwick-Ares LLC, Grasslands Energy LP, Chisholm Energy Operating LLC, and W.B. Macey, or your heirs, devisees, successors, or assigns: Mewbourne Oil Company has filed an application with the New Mexico Oil Conservation Division seeking an order pooling all mineral interests in the Wolfcamp formation underlying a 640-acre horizontal spacing unit comprised of the S/2 of Section 11 and the S/2 of Section 12, Township 23 South, Range 26 East, NMPM. The unit will be dedicated to (i) the Wingman 12/11 WOIL Fed. Com. Well No. 1H, with a first take point in the NE/4SE/4 of Section 12 and a final take point in the NW/4SW/4 of Section 11, and (ii) the Wingman 12/11 WOMP Fed. Com. Well No. 1H, with a first take point in the SE/4SE/4 of Section 12 and a final take point in the SW/4SW/4 of Section 11. Also to be considered will be the cost of drilling and completing the wells and the allocation of the cost thereof, as well as actual operating costs and charges for supervision, designation of applicant as operator of the wells, and a 200% charge for the risk involved in drilling and completing the wells. The application is scheduled to be heard at 8:15 a.m. on Thursday, June 13, 2019 at the Division's offices at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. As an interest owner in the well unit, you have the right to enter an appearance and participate in the case. Failure to appear will preclude you from contesting this matter at a later date. The attorney for applicant is James Bruce, P.O. Box 1056, Santa Fe, New Mexico 87504. The unit is located approximately 9-1/2 miles west-northwest of Loving, New Mexico.

May 30, 2019

EXHIBIT 3



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

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

Case No. 20498

VERIFIED STATEMENT OF TYLER HILL

COUNTY OF MIDLAND)
) ss.
STATE OF TEXAS)

Tyler Hill, being duly sworn upon his oath, deposes and states:

1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am a geologist for Mewbourne Oil Company ("Mewbourne"), and I am familiar with the geological matters involved in this case. I have been qualified by the Division as an expert petroleum geologist.
3. The following geological plats are attached hereto:
 - (a) Attachment A is a structure map of the Wolfcamp formation, mapped on the top of the correlative Wolfcamp marker. It shows that structure dips to the east, and that the planned wellbores would drill perpendicular to strike. It also shows a line of cross-section, A-A'.
 - (b) Attachment B is a west-east cross section. The well logs on the cross-section give a representative sample of the Wolfcamp formation in this area. The target zone for the wells is the Upper Wolfcamp Sand, and that zone is continuous across the well unit.
4. I conclude from the maps that:
 - (a) The horizontal spacing unit is justified from a geologic standpoint.
 - (b) Each quarter section in the unit will contribute more or less equally to production.
 - (c) There is no faulting or other geologic impediment in the area which will affect the drilling of the subject wells.

EXHIBIT

4

5. Attachment C contains information from other wells drilled in the immediate area. There are numerous upper Wolfcamp sand wells, and the preferred orientation is for laydown units. The completed wells in the area are commercial.

6. Attachment D is the Survey Calculation Report for wells: Wingman 12/11 W01L Fed Com #1H, and the Wingman 12/11 W0PM Fed Com #1H. The producing interval of the proposed well will be orthodox. The Pool code is Purple Sage Wolfcamp (98220).


Tyler Hill

VERIFICATION

STATE OF TEXAS)
) ss.
COUNTY OF MIDLAND)

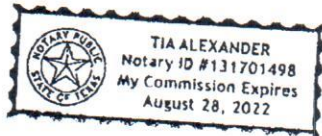
Tyler Hill, being duly sworn upon his oath, deposes and states that: He is a geologist for Mewbourne Oil Company; he is authorized to make this verification on its behalf; he has read the foregoing statement, and knows the contents thereof; and the same is true and correct to the best of his knowledge,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

Tyler Hill
Tyler Hill

SUBSCRIBED AND SWORN TO before me this 11 day of June, 2019 by Tyler Hill.

My Commission Expires: 8-28-22

Tia Alexander
Notary Public



Wingman 12/11 W01L/W0PM

A

A'

30015252000 30015252000 30015252000 2487 5 30015252000

TEXAS OIL & GAS CORPORATION
BNAW STATE COM
1978 FSL/1980 FEL
Datum=3307.00
Reference=03
TWP 23 S - Range 26 E - Sec 11

CIMAREX ENERGY CO OF COLORADO
KOHOLE COM 1
NE SW SW
Datum=3270.00
Reference=03
TWP 23 S - Range 26 E - Sec 12

CIMAREX ENERGY CO OF COLORADO
SCHOLS COM 1
1980 FSL/1980 FEL
Datum=3252.00
Reference=03
TWP 23 S - Range 26 E - Sec 12

11J

12M

12J

WFMP
WFMP SD X

WFMP SD Y

WFMP SD Z

WFMP Sh A

WFMP Sh B

WFMP Sh C

WFMP Sh D

WFMP
WFMP SD X

WFMP SD Y

WFMP SD Z

WFMP Sh A

WFMP Sh B

WFMP Sh C

WFMP Sh D



Wingman 12/11 W01L Fed Com #1H
Wingman 12/11 W0PM Fed Com #1H

ATTACHMENT B

Wingman Area Wolfcamp Production Table

API	Well Name	Well Number	Operator	Location	Field	Cum Oil (Mbo)	Cum Gas (Bcf)	Cum Water (Mbw)	First Prod Date	WFMP Zone
300154437400	CYPRESS FEE 23 27 9	2H	MARATHON	9L-9P/23S/27E	PURPLE SAGE	29	0.31	162	5/1/2018	WFMP C Shale
300154404600	CYPRESS	1H	MARATHON	9M-9P/23S/27E	PURPLE SAGE	178	0.41	666	5/1/2017	WFMP Y Sand
300154408200	MICHAEL COLLINS 11 23S 27E RB	208H	MATADOR	11P-11M/23S/27E	PURPLE SAGE	160	0.41	540	9/1/2017	WFMP Y Sand
300154437600	CYPRESS FEE 23 27 9	4H	MARATHON	9L-9P/23S/27E	PURPLE SAGE	33	0.10	156	5/1/2018	WFMP Y Sand
300154437700	CYPRESS FEE 23 27 9	5H	MARATHON	9L-9P/23S/27E	PURPLE SAGE	82	0.26	330	3/1/2018	WFMP Y Sand
300154437800	CYPRESS FEE 23 27 9	6H	MARATHON	9L-9P/23S/27E	PURPLE SAGE	24	0.70	594	6/1/2018	WFMP Y Sand
300154438000	CYPRESS FEE 23 27 9	8H	MARATHON	9L-9P/23S/27E	PURPLE SAGE	44	0.24	251	3/1/2018	WFMP Y Sand
300154444300	MICHAEL COLLINS 11 23S 27E RB	203H	MATADOR	11I-11L/23S/27E	PURPLE SAGE	123	0.35	421	2/1/2018	WFMP Y Sand
300154447200	MICHAEL COLLINS 11 23S 27E RB	206H	MATADOR	11I-11E/23S/27E	PURPLE SAGE	114	0.25	405	2/1/2018	WFMP Y Sand
300154454400	WOLFMAN 5 4 WOLI FEDERAL COM	1H	MEWBOURNE	5L-4I/23S/27E	PURPLE SAGE	242	0.46	475	4/1/2018	WFMP Y Sand
300154362100	SLIDER 18 WOLD FEDERAL COM	1H	MEWBOURNE	18M-18D/23S/27E	PURPLE SAGE	140	0.21	588	8/1/2017	WFMP Y Sand
300154453800	DARK CANYON 15 22 STATE COM WCB	2H	CHISOLM	15D-22E/22S/27E	PURPLE SAGE	54	0.71	295	7/1/2018	WFMP C Shale
300154453900	DARK CANYON 15 22 STATE COM WCA	3H	CHISOLM	15D-22E/22S/27E	PURPLE SAGE	82	0.34	327	7/1/2018	WFMP Y Sand

ATTACHMENT C

Mewbourne Oil Company

SURVEY CALCULATION REPORT Minimum Curvature Calculations

Target KBTVD: 8875.00 Feet
Target Angle: 90.40 Degrees
Section Plane: 272.03 Degrees
Declination Cor. to N: 6.63 Degrees
Bit to Survey Offset: 44.00 Feet

Operator: Mewbourne Oil Company
Lease Name: Wingman 12/11 W01L Fed Com 1H
KOP 8397.54

Survey No.	Measured Depth-ft	Drift (Deg.)	Azimuth (Deg.)	Course Length	TVD (Feet)	Vertical Section	+N/-S (Feet)	+E/-W (Feet)
T/I	8397.54	0.00	272.03	N/A	8397.54	0.00	0.00	0.00
1.00	8472.87	9.04	272.03	75.33	8472.56	5.93	0.21	-5.93
2.00	8548.20	18.08	272.03	75.33	8545.71	23.58	0.84	-23.56
3.00	8623.54	27.12	272.03	75.33	8615.19	52.50	1.86	-52.46
4.00	8698.87	36.16	272.03	75.33	8679.26	91.97	3.26	-91.92
5.00	8774.20	45.20	272.03	75.33	8736.33	141.03	5.00	-140.94
6.00	8849.54	54.24	272.03	75.33	8784.99	198.44	7.04	-198.32
7.00	8924.87	63.28	272.03	75.33	8824.02	262.79	9.32	-262.62
8.00	9000.21	72.32	272.03	75.33	8852.45	332.46	11.80	-332.25
9.00	9075.54	81.36	272.03	75.33	8869.58	405.74	14.40	-405.49
10.00	9150.87	90.40	272.03	75.33	8874.99	480.80	17.06	-480.50
11.00	9200.00	90.40	272.03	49.13	8874.64	529.93	18.80	-529.59
12.00	9300.00	90.40	272.03	100.00	8873.95	629.93	22.35	-629.53
13.00	9400.00	90.40	272.03	100.00	8873.25	729.92	25.90	-729.46
14.00	9500.00	90.40	272.03	100.00	8872.55	829.92	29.44	-829.40
15.00	9600.00	90.40	272.03	100.00	8871.85	929.92	32.99	-929.33
16.00	9700.00	90.40	272.03	100.00	8871.15	1029.92	36.54	-1029.27
17.00	9800.00	90.40	272.03	100.00	8870.45	1129.91	40.09	-1129.20
18.00	9900.00	90.40	272.03	100.00	8869.75	1229.91	43.64	-1229.14
19.00	10000.00	90.40	272.03	100.00	8869.05	1329.91	47.18	-1329.07
20.00	10100.00	90.40	272.03	100.00	8868.35	1429.91	50.73	-1429.01
21.00	10200.00	90.40	272.03	100.00	8867.65	1529.90	54.28	-1528.94
22.00	10300.00	90.40	272.03	100.00	8866.95	1629.90	57.83	-1628.88
23.00	10400.00	90.40	272.03	100.00	8866.25	1729.90	61.37	-1728.81
24.00	10500.00	90.40	272.03	100.00	8865.56	1829.90	64.92	-1828.74
25.00	10600.00	90.40	272.03	100.00	8864.86	1929.89	68.47	-1928.68
26.00	10700.00	90.40	272.03	100.00	8864.16	2029.89	72.02	-2028.61
27.00	10800.00	90.40	272.03	100.00	8863.46	2129.89	75.57	-2128.55
28.00	10900.00	90.40	272.03	100.00	8862.76	2229.89	79.11	-2228.48
29.00	11000.00	90.40	272.03	100.00	8862.06	2329.88	82.66	-2328.42
30.00	11100.00	90.40	272.03	100.00	8861.36	2429.88	86.21	-2428.35
31.00	11200.00	90.40	272.03	100.00	8860.66	2529.88	89.76	-2528.29
32.00	11300.00	90.40	272.03	100.00	8859.96	2629.88	93.30	-2628.22
33.00	11400.00	90.40	272.03	100.00	8859.26	2729.87	96.85	-2728.16
34.00	11500.00	90.40	272.03	100.00	8858.56	2829.87	100.40	-2828.09
35.00	11600.00	90.40	272.03	100.00	8857.86	2929.87	103.95	-2928.03
36.00	11700.00	90.40	272.03	100.00	8857.17	3029.87	107.50	-3027.96
37.00	11800.00	90.40	272.03	100.00	8856.47	3129.86	111.04	-3127.89
38.00	11900.00	90.40	272.03	100.00	8855.77	3229.86	114.59	-3227.83

ATTACHMENT D

39.00	12000.00	90.40	272.03	100.00	8855.07	3329.86	118.14	-3327.76
40.00	12100.00	90.40	272.03	100.00	8854.37	3429.86	121.69	-3427.70
41.00	12200.00	90.40	272.03	100.00	8853.67	3529.86	125.23	-3527.63
42.00	12300.00	90.40	272.03	100.00	8852.97	3629.85	128.78	-3627.57
43.00	12400.00	90.40	272.03	100.00	8852.27	3729.85	132.33	-3727.50
44.00	12500.00	90.40	272.03	100.00	8851.57	3829.85	135.88	-3827.44
45.00	12600.00	90.40	272.03	100.00	8850.87	3929.85	139.43	-3927.37
46.00	12700.00	90.40	272.03	100.00	8850.17	4029.84	142.97	-4027.31
47.00	12800.00	90.40	272.03	100.00	8849.47	4129.84	146.52	-4127.24
48.00	12900.00	90.40	272.03	100.00	8848.78	4229.84	150.07	-4227.18
49.00	13000.00	90.40	272.03	100.00	8848.08	4329.84	153.62	-4327.11
50.00	13100.00	90.40	272.03	100.00	8847.38	4429.83	157.16	-4427.04
51.00	13200.00	90.40	272.03	100.00	8846.68	4529.83	160.71	-4526.98
52.00	13300.00	90.40	272.03	100.00	8845.98	4629.83	164.26	-4626.91
53.00	13400.00	90.40	272.03	100.00	8845.28	4729.83	167.81	-4726.85
54.00	13500.00	90.40	272.03	100.00	8844.58	4829.82	171.36	-4826.78
55.00	13600.00	90.40	272.03	100.00	8843.88	4929.82	174.90	-4926.72
56.00	13700.00	90.40	272.03	100.00	8843.18	5029.82	178.45	-5026.65
57.00	13800.00	90.40	272.03	100.00	8842.48	5129.82	182.00	-5126.59
58.00	13900.00	90.40	272.03	100.00	8841.78	5229.81	185.55	-5226.52
59.00	14000.00	90.40	272.03	100.00	8841.08	5329.81	189.09	-5326.46
60.00	14100.00	90.40	272.03	100.00	8840.39	5429.81	192.64	-5426.39
61.00	14200.00	90.40	272.03	100.00	8839.69	5529.81	196.19	-5526.32
62.00	14300.00	90.40	272.03	100.00	8838.99	5629.80	199.74	-5626.26
63.00	14400.00	90.40	272.03	100.00	8838.29	5729.80	203.29	-5726.19
64.00	14500.00	90.40	272.03	100.00	8837.59	5829.80	206.83	-5826.13
65.00	14600.00	90.40	272.03	100.00	8836.89	5929.80	210.38	-5926.06
66.00	14700.00	90.40	272.03	100.00	8836.19	6029.79	213.93	-6026.00
67.00	14800.00	90.40	272.03	100.00	8835.49	6129.79	217.48	-6125.93
68.00	14900.00	90.40	272.03	100.00	8834.79	6229.79	221.02	-6225.87
69.00	15000.00	90.40	272.03	100.00	8834.09	6329.79	224.57	-6325.80
70.00	15100.00	90.40	272.03	100.00	8833.39	6429.78	228.12	-6425.74
71.00	15200.00	90.40	272.03	100.00	8832.69	6529.78	231.67	-6525.67
72.00	15300.00	90.40	272.03	100.00	8832.00	6629.78	235.22	-6625.61
73.00	15400.00	90.40	272.03	100.00	8831.30	6729.78	238.76	-6725.54
74.00	15500.00	90.40	272.03	100.00	8830.60	6829.77	242.31	-6825.47
75.00	15600.00	90.40	272.03	100.00	8829.90	6929.77	245.86	-6925.41
76.00	15700.00	90.40	272.03	100.00	8829.20	7029.77	249.41	-7025.34
77.00	15800.00	90.40	272.03	100.00	8828.50	7129.77	252.95	-7125.28
78.00	15900.00	90.40	272.03	100.00	8827.80	7229.76	256.50	-7225.21
79.00	16000.00	90.40	272.03	100.00	8827.10	7329.76	260.05	-7325.15
80.00	16100.00	90.40	272.03	100.00	8826.40	7429.76	263.60	-7425.08
81.00	16200.00	90.40	272.03	100.00	8825.70	7529.76	267.15	-7525.02
82.00	16300.00	90.40	272.03	100.00	8825.00	7629.75	270.69	-7624.95
83.00	16400.00	90.40	272.03	100.00	8824.30	7729.75	274.24	-7724.89
84.00	16500.00	90.40	272.03	100.00	8823.61	7829.75	277.79	-7824.82
85.00	16600.00	90.40	272.03	100.00	8822.91	7929.75	281.34	-7924.76
86.00	16700.00	90.40	272.03	100.00	8822.21	8029.75	284.88	-8024.69
87.00	16800.00	90.40	272.03	100.00	8821.51	8129.74	288.43	-8124.62
88.00	16900.00	90.40	272.03	100.00	8820.81	8229.74	291.98	-8224.56
89.00	17000.00	90.40	272.03	100.00	8820.11	8329.74	295.53	-8324.49
90.00	17100.00	90.40	272.03	100.00	8819.41	8429.74	299.08	-8424.43
91.00	17200.00	90.40	272.03	100.00	8818.71	8529.73	302.62	-8524.36
92.00	17300.00	90.40	272.03	100.00	8818.01	8629.73	306.17	-8624.30
93.00	17400.00	90.40	272.03	100.00	8817.31	8729.73	309.72	-8724.23

94.00	17500.00	90.40	272.03	100.00	8816.61	8829.73	313.27	-8824.17
95.00	17600.00	90.40	272.03	100.00	8815.91	8929.72	316.81	-8924.10
96.00	17700.00	90.40	272.03	100.00	8815.22	9029.72	320.36	-9024.04
97.00	17800.00	90.40	272.03	100.00	8814.52	9129.72	323.91	-9123.97
98.00	17900.00	90.40	272.03	100.00	8813.82	9229.72	327.46	-9223.91
99.00	18000.00	90.40	272.03	100.00	8813.12	9329.71	331.01	-9323.84
100.00	18100.00	90.40	272.03	100.00	8812.42	9429.71	334.55	-9423.77
101.00	18200.00	90.40	272.03	100.00	8811.72	9529.71	338.10	-9523.71
102.00	18300.00	90.40	272.03	100.00	8811.02	9629.71	341.65	-9623.64
103.00	18400.00	90.40	272.03	100.00	8810.32	9729.70	345.20	-9723.58
104.00	18500.00	90.40	272.03	100.00	8809.62	9829.70	348.75	-9823.51
105.00	18600.00	90.40	272.03	100.00	8808.92	9929.70	352.29	-9923.45
106.00	18700.00	90.40	272.03	100.00	8808.22	10029.70	355.84	-10023.38
107.00	18800.00	90.40	272.03	100.00	8807.52	10129.69	359.39	-10123.32
108.00	18873.09	90.40	272.03	73.09	8807.01	10202.79	361.98	-10196.36

Mewbourne Oil Company

SURVEY CALCULATION REPORT Minimum Curvature Calculations

Target KBTVD: 8875.00 Feet
Target Angle: 90.38 Degrees
Section Plane: 265.25 Degrees
Declination Cor. to N: 6.63 Degrees
Bit to Survey Offset: 44.00 Feet

Operator: Mewbourne Oil Company
Lease Name: Wingman 12/11 W0PM State Com 1H
KOP 8397.54

Survey No.	Measured Depth-ft	Drift (Deg.)	Azimuth (Deg.)	Course Length	TVD (Feet)	Vertical Section	+N/-S (Feet)	+E/-W (Feet)
=	=	=	=	=	=	=	=	=
T/I	8397.54	0.00	265.25	N/A	8397.54	0.00	0.00	0.00
1.00	8472.85	9.04	265.25	75.32	8472.54	5.93	-0.49	-5.91
2.00	8548.17	18.08	265.25	75.32	8545.68	23.57	-1.95	-23.48
3.00	8623.49	27.11	265.25	75.32	8615.15	52.47	-4.35	-52.29
4.00	8698.81	36.15	265.25	75.32	8679.21	91.94	-7.61	-91.62
5.00	8774.13	45.19	265.25	75.32	8736.28	140.97	-11.68	-140.49
6.00	8849.44	54.23	265.25	75.32	8784.93	198.36	-16.43	-197.68
7.00	8924.76	63.27	265.25	75.32	8823.97	262.69	-21.76	-261.78
8.00	9000.08	72.31	265.25	75.32	8852.41	332.34	-27.53	-331.20
9.00	9075.40	81.34	265.25	75.32	8869.56	405.60	-33.59	-404.21
10.00	9150.72	90.38	265.25	75.32	8874.99	480.65	-39.81	-478.99
11.00	9200.00	90.38	265.25	49.28	8874.66	529.93	-43.89	-528.11
12.00	9300.00	90.38	265.25	100.00	8873.99	629.93	-52.17	-627.76
13.00	9400.00	90.38	265.25	100.00	8873.33	729.92	-60.46	-727.42
14.00	9500.00	90.38	265.25	100.00	8872.66	829.92	-68.74	-827.07
15.00	9600.00	90.38	265.25	100.00	8872.00	929.92	-77.02	-926.72
16.00	9700.00	90.38	265.25	100.00	8871.33	1029.92	-85.30	-1026.38
17.00	9800.00	90.38	265.25	100.00	8870.66	1129.92	-93.59	-1126.03
18.00	9900.00	90.38	265.25	100.00	8870.00	1229.91	-101.87	-1225.69
19.00	10000.00	90.38	265.25	100.00	8869.33	1329.91	-110.15	-1325.34
20.00	10100.00	90.38	265.25	100.00	8868.67	1429.91	-118.43	-1425.00
21.00	10200.00	90.38	265.25	100.00	8868.00	1529.91	-126.72	-1524.65
22.00	10300.00	90.38	265.25	100.00	8867.33	1629.90	-135.00	-1624.30
23.00	10400.00	90.38	265.25	100.00	8866.67	1729.90	-143.28	-1723.96
24.00	10500.00	90.38	265.25	100.00	8866.00	1829.90	-151.56	-1823.61
25.00	10600.00	90.38	265.25	100.00	8865.33	1929.90	-159.85	-1923.27
26.00	10700.00	90.38	265.25	100.00	8864.67	2029.90	-168.13	-2022.92
27.00	10800.00	90.38	265.25	100.00	8864.00	2129.89	-176.41	-2122.57
28.00	10900.00	90.38	265.25	100.00	8863.34	2229.89	-184.69	-2222.23
29.00	11000.00	90.38	265.25	100.00	8862.67	2329.89	-192.98	-2321.88
30.00	11100.00	90.38	265.25	100.00	8862.00	2429.89	-201.26	-2421.54
31.00	11200.00	90.38	265.25	100.00	8861.34	2529.88	-209.54	-2521.19
32.00	11300.00	90.38	265.25	100.00	8860.67	2629.88	-217.82	-2620.85
33.00	11400.00	90.38	265.25	100.00	8860.01	2729.88	-226.10	-2720.50
34.00	11500.00	90.38	265.25	100.00	8859.34	2829.88	-234.39	-2820.15
35.00	11600.00	90.38	265.25	100.00	8858.67	2929.88	-242.67	-2919.81
36.00	11700.00	90.38	265.25	100.00	8858.01	3029.87	-250.95	-3019.46
37.00	11800.00	90.38	265.25	100.00	8857.34	3129.87	-259.23	-3119.12
38.00	11900.00	90.38	265.25	100.00	8856.67	3229.87	-267.52	-3218.77
39.00	12000.00	90.38	265.25	100.00	8856.01	3329.87	-275.80	-3318.43

40.00	12100.00	90.38	265.25	100.00	8855.34	3429.86	-284.08	-3418.08
41.00	12200.00	90.38	265.25	100.00	8854.68	3529.86	-292.36	-3517.73
42.00	12300.00	90.38	265.25	100.00	8854.01	3629.86	-300.65	-3617.39
43.00	12400.00	90.38	265.25	100.00	8853.34	3729.86	-308.93	-3717.04
44.00	12500.00	90.38	265.25	100.00	8852.68	3829.86	-317.21	-3816.70
45.00	12600.00	90.38	265.25	100.00	8852.01	3929.85	-325.49	-3916.35
46.00	12700.00	90.38	265.25	100.00	8851.34	4029.85	-333.78	-4016.00
47.00	12800.00	90.38	265.25	100.00	8850.68	4129.85	-342.06	-4115.66
48.00	12900.00	90.38	265.25	100.00	8850.01	4229.85	-350.34	-4215.31
49.00	13000.00	90.38	265.25	100.00	8849.35	4329.84	-358.62	-4314.97
50.00	13100.00	90.38	265.25	100.00	8848.68	4429.84	-366.91	-4414.62
51.00	13200.00	90.38	265.25	100.00	8848.01	4529.84	-375.19	-4514.28
52.00	13300.00	90.38	265.25	100.00	8847.35	4629.84	-383.47	-4613.93
53.00	13400.00	90.38	265.25	100.00	8846.68	4729.84	-391.75	-4713.58
54.00	13500.00	90.38	265.25	100.00	8846.02	4829.83	-400.04	-4813.24
55.00	13600.00	90.38	265.25	100.00	8845.35	4929.83	-408.32	-4912.89
56.00	13700.00	90.38	265.25	100.00	8844.68	5029.83	-416.60	-5012.55
57.00	13800.00	90.38	265.25	100.00	8844.02	5129.83	-424.88	-5112.20
58.00	13900.00	90.38	265.25	100.00	8843.35	5229.82	-433.16	-5211.85
59.00	14000.00	90.38	265.25	100.00	8842.68	5329.82	-441.45	-5311.51
60.00	14100.00	90.38	265.25	100.00	8842.02	5429.82	-449.73	-5411.16
61.00	14200.00	90.38	265.25	100.00	8841.35	5529.82	-458.01	-5510.82
62.00	14300.00	90.38	265.25	100.00	8840.69	5629.82	-466.29	-5610.47
63.00	14400.00	90.38	265.25	100.00	8840.02	5729.81	-474.58	-5710.13
64.00	14500.00	90.38	265.25	100.00	8839.35	5829.81	-482.86	-5809.78
65.00	14600.00	90.38	265.25	100.00	8838.69	5929.81	-491.14	-5909.43
66.00	14700.00	90.38	265.25	100.00	8838.02	6029.81	-499.42	-6009.09
67.00	14800.00	90.38	265.25	100.00	8837.35	6129.80	-507.71	-6108.74
68.00	14900.00	90.38	265.25	100.00	8836.69	6229.80	-515.99	-6208.40
69.00	15000.00	90.38	265.25	100.00	8836.02	6329.80	-524.27	-6308.05
70.00	15100.00	90.38	265.25	100.00	8835.36	6429.80	-532.55	-6407.71
71.00	15200.00	90.38	265.25	100.00	8834.69	6529.80	-540.84	-6507.36
72.00	15300.00	90.38	265.25	100.00	8834.02	6629.79	-549.12	-6607.01
73.00	15400.00	90.38	265.25	100.00	8833.36	6729.79	-557.40	-6706.67
74.00	15500.00	90.38	265.25	100.00	8832.69	6829.79	-565.68	-6806.32
75.00	15600.00	90.38	265.25	100.00	8832.03	6929.79	-573.97	-6905.98
76.00	15700.00	90.38	265.25	100.00	8831.36	7029.78	-582.25	-7005.63
77.00	15800.00	90.38	265.25	100.00	8830.69	7129.78	-590.53	-7105.28
78.00	15900.00	90.38	265.25	100.00	8830.03	7229.78	-598.81	-7204.94
79.00	16000.00	90.38	265.25	100.00	8829.36	7329.78	-607.10	-7304.59
80.00	16100.00	90.38	265.25	100.00	8828.69	7429.78	-615.38	-7404.25
81.00	16200.00	90.38	265.25	100.00	8828.03	7529.77	-623.66	-7503.90
82.00	16300.00	90.38	265.25	100.00	8827.36	7629.77	-631.94	-7603.56
83.00	16400.00	90.38	265.25	100.00	8826.70	7729.77	-640.22	-7703.21
84.00	16500.00	90.38	265.25	100.00	8826.03	7829.77	-648.51	-7802.86
85.00	16600.00	90.38	265.25	100.00	8825.36	7929.76	-656.79	-7902.52
86.00	16700.00	90.38	265.25	100.00	8824.70	8029.76	-665.07	-8002.17
87.00	16800.00	90.38	265.25	100.00	8824.03	8129.76	-673.35	-8101.83
88.00	16900.00	90.38	265.25	100.00	8823.37	8229.76	-681.64	-8201.48
89.00	17000.00	90.38	265.25	100.00	8822.70	8329.76	-689.92	-8301.13
90.00	17100.00	90.38	265.25	100.00	8822.03	8429.75	-698.20	-8400.79
91.00	17200.00	90.38	265.25	100.00	8821.37	8529.75	-706.48	-8500.44
92.00	17300.00	90.38	265.25	100.00	8820.70	8629.75	-714.77	-8600.10
93.00	17400.00	90.38	265.25	100.00	8820.03	8729.75	-723.05	-8699.75
94.00	17500.00	90.38	265.25	100.00	8819.37	8829.74	-731.33	-8799.41

95.00	17600.00	90.38	265.25	100.00	8818.70	8929.74	-739.61	-8899.06
96.00	17700.00	90.38	265.25	100.00	8818.04	9029.74	-747.90	-8998.71
97.00	17800.00	90.38	265.25	100.00	8817.37	9129.74	-756.18	-9098.37
98.00	17900.00	90.38	265.25	100.00	8816.70	9229.74	-764.46	-9198.02
99.00	18000.00	90.38	265.25	100.00	8816.04	9329.73	-772.74	-9297.68
100.00	18100.00	90.38	265.25	100.00	8815.37	9429.73	-781.03	-9397.33
101.00	18200.00	90.38	265.25	100.00	8814.70	9529.73	-789.31	-9496.99
102.00	18300.00	90.38	265.25	100.00	8814.04	9629.73	-797.59	-9596.64
103.00	18400.00	90.38	265.25	100.00	8813.37	9729.72	-805.87	-9696.29
104.00	18500.00	90.38	265.25	100.00	8812.71	9829.72	-814.16	-9795.95
105.00	18600.00	90.38	265.25	100.00	8812.04	9929.72	-822.44	-9895.60
106.00	18700.00	90.38	265.25	100.00	8811.37	10029.72	-830.72	-9995.26
107.00	18800.00	90.38	265.25	100.00	8810.71	10129.72	-839.00	-10094.91
108.00	18900.00	90.38	265.25	100.00	8810.04	10229.71	-847.28	-10194.56