

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 CREEDENCE 21/16 W2HA STATE COM						6 Well Number 5H	
7 GRID NO.		8 Operator Name MEWBOURNE OIL COMPANY						9 Elevation 3025'	
10 Surface Location									
UL or lot no. H	Section 21	Township 24S	Range 28E	Lot Idn	Feet from the 2630	North/South line NORTH	Feet From the 735	East/West line EAST	County EDDY
11 Bottom Hole Location If Different From Surface									
UL or lot no. A	Section 16	Township 24S	Range 28E	Lot Idn	Feet from the 330	North/South line NORTH	Feet from the 990	East/West line EAST	County EDDY
12 Dedicated Acres		13 Joint or Infill		14 Consolidation Code		15 Order No.			

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

	<p>17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>
	<p>18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>7-19-18 Date of Survey</p> <p>Signature and Seal of Professional Surveyor _____</p> <p>19680 Certificate Number</p>

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☐ AMENDED REPORT

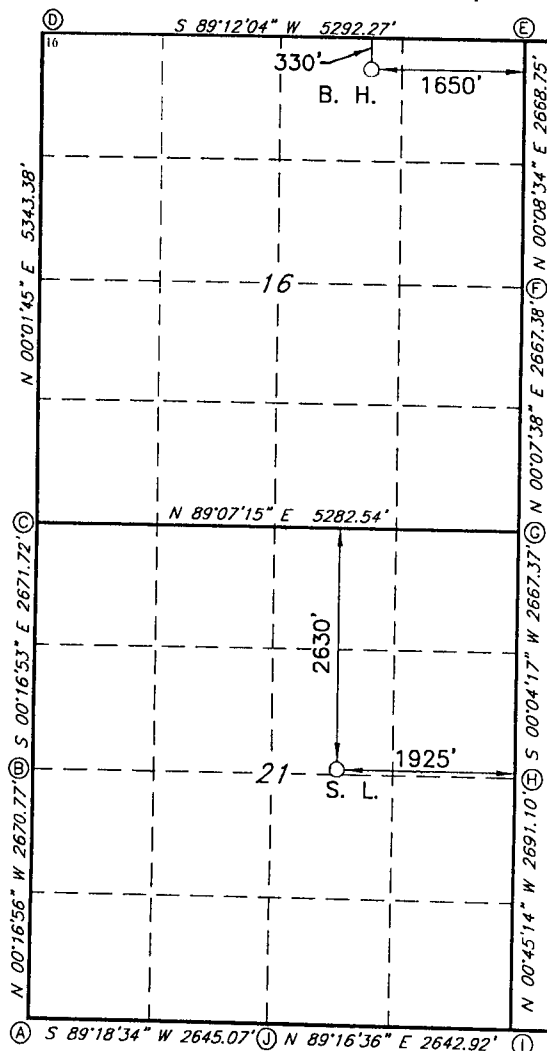
WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code		3 Pool Name	
4 Property Code		5 Property Name CREEDENCE 21/16 W2GB STATE COM			6 Well Number 6H
7 GRID NO.		8 Operator Name MEWBOURNE OIL COMPANY			9 Elevation 3036'

10 Surface Location									
UL or lot no. G	Section 21	Township 24S	Range 28E	Lot Idn	Feet from the 2630	North/South line NORTH	Feet from the 1925	East/West line EAST	County EDDY

11 Bottom Hole Location If Different From Surface									
UL or lot no. B	Section 16	Township 24S	Range 28E	Lot Idn	Feet from the 330	North/South line NORTH	Feet from the 1650	East/West line EAST	County EDDY
12 Dedicated Acres		13 Joint or Infill		14 Consolidation Code		15 Order No.			

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



GEODETIC DATA
NAD 83 GRID - NM EAST
SURFACE LOCATION
N: 437835.9 - E: 616475.3
LAT: 32.2034547° N
LONG: 104.0904064° W
BOTTOM HOLE
N: 445476.8 - E: 616765.2
LAT: 32.2244569° N
LONG: 104.0894131° W

CORNER DATA
NAD 83 GRID - NM EAST
A: FOUND BRASS CAP "1942"
N: 435072.6 - E: 613148.6
B: FOUND BRASS CAP "1942"
N: 437742.8 - E: 613135.4
C: CALCULATED CORNER
N: 440413.8 - E: 613122.2
D: FOUND 100D NAIL
N: 445756.0 - E: 613124.9
E: CALCULATED CORNER
N: 445829.8 - E: 618415.5
F: FOUND BRASS CAP "1942"
N: 443161.6 - E: 618408.8
G: CALCULATED CORNER
N: 440494.9 - E: 618402.9
H: FOUND BRASS CAP "1942"
N: 437828.1 - E: 618399.6
I: FOUND BRASS CAP "1942"
N: 435137.9 - E: 618435.0
F: FOUND BRASS CAP "1942"
N: 435104.5 - E: 615792.9

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____

Printed Name _____

E-mail Address _____

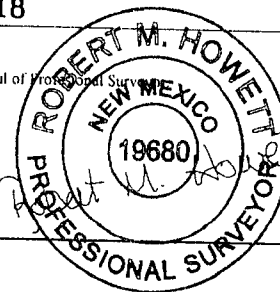
18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

7-19-18

Date of Survey

Signature and Seal of Professional Surveyor



19680

Certificate Number

Job No.: LS1807917

District I
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code		3 Pool Name	
4 Property Code		5 Property Name CREEDENCE 21/16 W2GB STATE COM			6 Well Number 7H
7 GRID NO.		8 Operator Name MEWBOURNE OIL COMPANY			9 Elevation 3037'

10 Surface Location

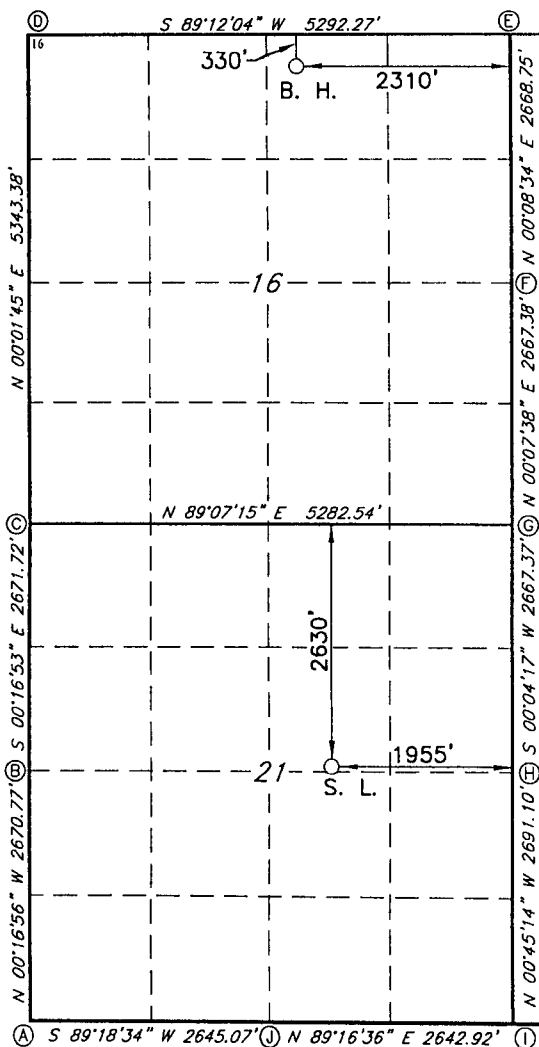
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	21	24S	28E		2630	NORTH	1955	EAST	EDDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	16	24S	28E		330	NORTH	2310	EAST	EDDY

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.



GEODETIC DATA
NAD 83 GRID - NM EAST
SURFACE LOCATION
N: 437835.5 - E: 616445.3
LAT: 32.2034537° N
LONG: 104.0905034° W
BOTTOM HOLE
N: 445467.6 - E: 616105.4
LAT: 32.2244357° N
LONG: 104.0915468° W

CORNER DATA
NAD 83 GRID - NM EAST
A: FOUND BRASS CAP "1942"
N: 435072.6 - E: 613148.6
B: FOUND BRASS CAP "1942"
N: 437742.8 - E: 613135.4
C: CALCULATED CORNER
N: 440413.8 - E: 613122.2
D: FOUND 100D NAIL
N: 445756.0 - E: 613124.9
E: CALCULATED CORNER
N: 445829.8 - E: 618415.5
F: FOUND BRASS CAP "1942"
N: 443161.6 - E: 618408.8
G: CALCULATED CORNER
N: 440494.9 - E: 618402.9
H: FOUND BRASS CAP "1942"
N: 437828.1 - E: 618399.6
I: FOUND BRASS CAP "1942"
N: 435137.9 - E: 618435.0
F: FOUND BRASS CAP "1942"
N: 435104.5 - E: 615792.9

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I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____
Printed Name _____
E-mail Address _____

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

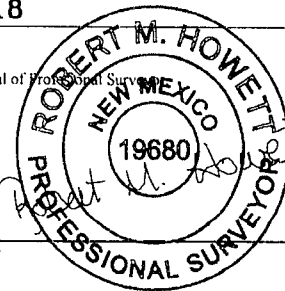
7-19-18

Date of Survey

Signature and Seal of Professional Surveyor

19680

Certificate Number



Job No.: LS1807918

TRACT OWNERSHIP

Creedence 21-16 W0GB State Com #3H

Creedence 21-16 W2GB State Com #4H

Creedence 21-16 W2HA State Com #5H

Creedence 21-16 W2GB State Com #6H

Creedence 21-16 W2GB State Com #7H

NE/4 of Section 21 and E/2 of Section 16, T24S, R28E, Eddy County, NM

Mewbourne Oil Company, et al.	75.361163%
CM Resources, LLC	12.500000%*
Marathon Oil Permian LLC	10.463837%*
Tom M. Ragsdale	0.636364%*
Stillwater Investments	0.356818%*
Attwell Interests, Inc.	0.181818%*
Total	100.000000%

Mewbourne Oil Company, et al. indicates parties signed up to proposed Operating Agreement dated April 15, 2018, naming Mewbourne Oil Company as Operator.

*Indicates the entity being pooled.

Ex. 2

Summary of Communications

Creedence 21-16 B3GB State Com #1H
Creedence 21-16 B3HA State Com #1H
Creedence 21-16 W0GB State Com #3H
Creedence 21-16 W2GB State Com #6H
Creedence 21-16 W2GB State Com #7H
Creedence 21-16 W2HA State Com #4H
Creedence 21-16 W2HA State Com #5H

Marathon Oil Permian LLC

- 1) Mailed well proposal via Overnight Mail July 19, 2018; proof of receipt July 20, 2018 is also included.
- 2) Called Chase Rice at Marathon 8-6-2018 to ask about the Operating Agreement sent to Mewbourne by Marathon.
- 3) Corey and Drew visited with Steve Virant and Chase Rice regarding ownership in Section 16.

CM Resources, LLC

- 1) Hand delivered well proposal letter with AFE's on July 24, 2018; proof of hand delivery attached.

Tom M. Ragsdale

- 1) Mailed well proposal letter with AFE's via certified mail July 19, 2018; proof of delivery is included dated July 26, 2018.
- 2) Email conversation with Karen Stanford August 1, 2018.

Attwell Interests, Inc.

- 1) Mailed well proposal letter with AFE's via certified mail July 19, 2018; proof of delivery is included dated July 26, 2018.

Stillwater Investments

- 1) Mailed well proposal letter with AFE's via certified mail July 19, 2018; proof of delivery is included dated July 25, 2018.
- 2) Email conversation September 6, 2018 with Charlie McMillian about Stillwater's participation in the Creedence 21-16 wells.
- 3) Called and left voicemail to Charlie McMillian June 21, 2018.

Ex. 3

MEWBOURNE OIL COMPANY

500 West Texas, Suite 1020
Midland, Texas 79701
Phone (432) 682-3715
Fax (432) 685-4170

July 19, 2018

Overnight Mail

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

Re: Proposed Horizontal Tests
Creedence 21-16 B3GB State Com #1H
Creedence 21-16 B3HA State Com #1H
Creedence 21-16 W0GB State Com #3H
Creedence 21-16 W2GB State Com #6H
Creedence 21-16 W2GB State Com #7H
Creedence 21-16 W2HA State Com #4H
Creedence 21-16 W2HA State Com #5H
All of Section 16 and the N2 of Section 21
T24S, R28E, Eddy County, New Mexico
Creedence 21-16 Prospect

Ladies and Gentlemen:

Per Operating Agreement dated April 15, 2018, Mewbourne Oil Company, as Operator, hereby proposes drilling the following seven (7) horizontal tests:

1) Creedence 21-16 B3GB State Com #1H -- APD in process
Surface Location: 2630' FNL, 2015' FEL, Section 21, UL G
Bottom Hole Location: 100' FNL, 200' FEL, Section 16, UL B
Proposed Total Vertical Depth: 9,385'
Proposed Total Measured Depth: 16,735'
Formation: Bone Spring

2) Creedence 21-16 B3HA State Com #1H -- APD in process
Surface Location: 2630' FNL, 635' FEL, Section 21, UL H
Bottom Hole Location: 100' FNL, 700' FEL, Section 16, UL A
Proposed Total Vertical Depth: 9,405'
Proposed Total Measured Depth: 16,755'
Formation: Bone Spring

3) Creedence 21-16 W0GB State Com #3H -- APD in process
Surface Location: 2630' FNL, 1985' FEL, Section 21, UL G
Bottom Hole Location: 330' FNL, 2220' FEL, Section 16, UL B
Proposed Total Vertical Depth: 9,540'
Proposed Total Measured Depth: 16,915'
Formation: Wolfcamp

4) Creedence 21-16 W2GB State Com #6H – APD in process
Surface Location: 2630' FNL, 1925' FEL, Section 21, UL G
Bottom Hole Location: 330' FNL, 1650' FEL, Section 16, UL B
Proposed Total Vertical Depth: 10,585'
Proposed Total Measured Depth: 17,050'
Formation: Wolfcamp

5) Creedence 21-16 W2GB State Com #7H – APD in process
Surface Location: 2630' FNL, 1955' FEL, Section 21, UL G
Bottom Hole Location: 330' FNL, 2310' FEL, Section 16, UL B
Proposed Total Vertical Depth: 10,385'
Proposed Total Measured Depth: 16,850'
Formation: Wolfcamp

6) Creedence 21-16 W2HA State Com #4H – APD in process
Surface Location: 2630' FNL, 605' FEL, Section 21, UL H
Bottom Hole Location: 330' FNL, 330' FEL, Section 16, UL A
Proposed Total Vertical Depth: 10,595'
Proposed Total Measured Depth: 17,060'
Formation: Wolfcamp

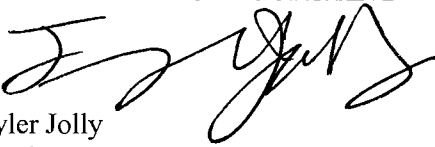
7) Creedence 21-16 W2HA State Com #5H – APD in process
Surface Location: 2630' FNL, 735' FEL, Section 21, UL H
Bottom Hole Location: 330' FNL, 990' FEL, Section 16, UL A
Proposed Total Vertical Depth: 10,395'
Proposed Total Measured Depth: 16,860'
Formation: Wolfcamp

In the event you elect to participate in the proposed wells, please execute the enclosed AFEs and return them to the undersigned within thirty (30) days. Please enclose your most current well information requirements so that we may supply well data when available.

Please contact me at (432) 682-3715 or via email at tjolly@mewbourne.com if you have any questions.

Very truly yours,

MEWBOURNE OIL COMPANY


Tyler Jolly
Landman

Enclosures

Tyler Jolly

From: midrecep
Sent: Friday, July 20, 2018 12:43 PM
To: Tyler Jolly
Subject: FW: FedEx Shipment 772752641343 Delivered

From: TrackingUpdates@fedex.com [<mailto:TrackingUpdates@fedex.com>]
Sent: Friday, July 20, 2018 9:19 AM
To: midrecep <midrecep@mewbourne.com>
Subject: FedEx Shipment 772752641343 Delivered

Your package has been delivered

Tracking # 772752641343

Ship date:
Thu, 7/19/2018

Tyler Jolly
Mewbourne Oil Company
Midland, TX 79701
US

Delivery date:
Fri, 7/20/2018 9:14 am

Attn: Matt D Brown
Marathon Oil Corporation
5555 San Felipe
HOUSTON, TX 77056
US




Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	<u>772752641343</u>
Status:	Delivered: 07/20/2018 09:14 AM Signed for By: R.VARGAS
Reference:	Queen 23/24 WIU
Signed for by:	R.VARGAS
Delivery location:	HOUSTON, TX
Delivered to:	Receptionist/Front Desk
Service type:	FedEx Standard Overnight
Packaging type:	FedEx Envelope
Number of pieces:	1
Weight:	0.50 lb.

Special handling/Services: Deliver Weekday

Standard transit: 7/20/2018 by 3:00 pm

 Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 9:19 AM CDT on 07/20/2018.

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above.

Standard transit is the date and time the package is scheduled to be delivered by, based on the selected service, destination and ship date. Limitations and exceptions may apply. Please see the FedEx Service Guide for terms and conditions of service, including the FedEx Money-Back Guarantee, or contact your FedEx Customer Support representative.

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Thank you for your business.

MEWBOURNE OIL COMPANY

500 West Texas, Suite 1020
Midland, Texas 79701
Phone (432) 682-3715
Fax (432) 685-4170

July 20, 2018

Via Hand Delivery

CM Resources, LLC
306 W. Wall Street, Suite 500
Midland, TX 79701
Attn: Patrick Godwin

Re: Proposed Horizontal Tests
Creedence 21-16 B3GB State Com #1H
Creedence 21-16 B3HA State Com #1H
All of Section 16 and the N2 of Section 21
T24S, R28E, Eddy County, New Mexico
Creedence 21-16 Prospect

Ladies and Gentlemen:

Per Operating Agreement dated April 15, 2018, Mewbourne Oil Company, as Operator, hereby proposes drilling the following two (2) horizontal tests:

1) Creedence 21-16 B3GB State Com #1H – APD in process
Surface Location: 2630' FNL, 2015' FEL, Section 21, UL G
Bottom Hole Location: 100' FNL, 200' FEL, Section 16, UL B
Proposed Total Vertical Depth: 9,385'
Proposed Total Measured Depth: 16,735'
Formation: Bone Spring

2) Creedence 21-16 B3HA State Com #1H – APD in process
Surface Location: 2630' FNL, 635' FEL, Section 21, UL H
Bottom Hole Location: 100' FNL, 700' FEL, Section 16, UL A
Proposed Total Vertical Depth: 9,405'
Proposed Total Measured Depth: 16,755'
Formation: Bone Spring

In the event you elect to participate in the proposed wells, please execute the enclosed AFEs and return them to the undersigned within thirty (30) days. Please enclose your most current well information requirements so that we may supply well data when available.

Creedence 21-16 Prospect
Page 2 of 2

Please contact me at (432) 682-3715 or via email at tjolly@mewbourne.com if you have any questions.

Very truly yours,

MEWBOURNE OIL COMPANY

A handwritten signature in black ink, appearing to read 'TJolly', written over the company name.

Tyler Jolly
Landman

Enclosures

MEWBOURNE OIL COMPANY

500 West Texas, Suite 1020
Midland, Texas 79701
Phone (432) 682-3715
Fax (432) 685-4170

July 20, 2018


CM Resources, LLC
306 W. Wall Street, Suite 500
Midland, TX 79701
Attn: Patrick Godwin

Re: Receipt for Hand Delivered Documents

Document(s) Received:

1. Creedence 21-16 Well Proposals and AFE's for the following:
Creedence 21-16 B3GB State Com #1H
Creedence 21-16 B3HA State Com #1H

Received on behalf of CM Resources, LLC by:



Signature

Brandon Gaynor

Print

7/24/2018

Date

MEWBOURNE OIL COMPANY

500 West Texas, Suite 1020
Midland, Texas 79701
Phone (432) 682-3715
Fax (432) 685-4170

July 19, 2018

Certified Mail

Tom Ragsdale
400 N. Sam Houston Pkwy East Suite 601
Houston, TX 77060

Re: Proposed Horizontal Tests
Creedence 21-16 B3GB State Com #1H
Creedence 21-16 B3HA State Com #1H
Creedence 21-16 W0GB State Com #3H
Creedence 21-16 W2GB State Com #6H
Creedence 21-16 W2GB State Com #7H
Creedence 21-16 W2HA State Com #4H
Creedence 21-16 W2HA State Com #5H
All of Section 16 and the N2 of Section 21
T24S, R28E, Eddy County, New Mexico
Creedence 21-16 Prospect

Ladies and Gentlemen:

Per Operating Agreement dated April 15, 2018, Mewbourne Oil Company, as Operator, hereby proposes drilling the following seven (7) horizontal tests:

1) Creedence 21-16 B3GB State Com #1H – APD in process
Surface Location: 2630' FNL, 2015' FEL, Section 21, UL G
Bottom Hole Location: 100' FNL, 200' FEL, Section 16, UL B
Proposed Total Vertical Depth: 9,385'
Proposed Total Measured Depth: 16,735'
Formation: Bone Spring

2) Creedence 21-16 B3HA State Com #1H – APD in process
Surface Location: 2630' FNL, 635' FEL, Section 21, UL H
Bottom Hole Location: 100' FNL, 700' FEL, Section 16, UL A
Proposed Total Vertical Depth: 9,405'
Proposed Total Measured Depth: 16,755'
Formation: Bone Spring

3) Creedence 21-16 W0GB State Com #3H – APD in process
Surface Location: 2630' FNL, 1985' FEL, Section 21, UL G
Bottom Hole Location: 330' FNL, 2220' FEL, Section 16, UL B
Proposed Total Vertical Depth: 9,540'
Proposed Total Measured Depth: 16,915'
Formation: Wolfcamp

4) Creedence 21-16 W2GB State Com #6H – APD in process
Surface Location: 2630' FNL, 1925' FEL, Section 21, UL G
Bottom Hole Location: 330' FNL, 1650' FEL, Section 16, UL B
Proposed Total Vertical Depth: 10,585'
Proposed Total Measured Depth: 17,050'
Formation: Wolfcamp

5) Creedence 21-16 W2GB State Com #7H – APD in process
Surface Location: 2630' FNL, 1955' FEL, Section 21, UL G
Bottom Hole Location: 330' FNL, 2310' FEL, Section 16, UL B
Proposed Total Vertical Depth: 10,385'
Proposed Total Measured Depth: 16,850'
Formation: Wolfcamp

6) Creedence 21-16 W2HA State Com #4H – APD in process
Surface Location: 2630' FNL, 605' FEL, Section 21, UL H
Bottom Hole Location: 330' FNL, 330' FEL, Section 16, UL A
Proposed Total Vertical Depth: 10,595'
Proposed Total Measured Depth: 17,060'
Formation: Wolfcamp

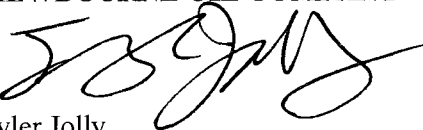
7) Creedence 21-16 W2HA State Com #5H – APD in process
Surface Location: 2630' FNL, 735' FEL, Section 21, UL H
Bottom Hole Location: 330' FNL, 990' FEL, Section 16, UL A
Proposed Total Vertical Depth: 10,395'
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In the event you elect to participate in the proposed wells, please execute the enclosed AFEs and return them to the undersigned within thirty (30) days. Please enclose your most current well information requirements so that we may supply well data when available.

Please contact me at (432) 682-3715 or via email at tjolly@mewbourne.com if you have any questions.

Very truly yours,

MEWBOURNE OIL COMPANY



Tyler Jolly
Landman

Enclosures



July 26, 2018

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 5032 9692 51.


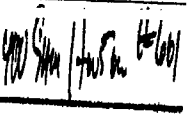
Item Details

Status: Delivered, Left with Individual
Status Date / Time: July 26, 2018, 12:25 pm
Location: HOUSTON, TX 77060
Postal Product: First-Class Mail®
Extra Services: Certified Mail™
Return Receipt Electronic
Recipient Name: Tom M Ragsdale

Shipment Details

Weight: 3.0oz

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.

Thank you for selecting the United States Postal Service® for your mailing needs. If you require additional assistance, please contact your local Post Office™ or a Postal representative at 1-800-222-1811.

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

Tom M. Ragsdale
400 N SAM HOUSTON PKWY E STE 601
HOUSTON, TX 77060
Reference #: Creedence 21 16 Prospect TJ
Item ID: Creedence 21 16 Prospect

Tyler Jolly

From: Karen Stanford <kstanford@sianaoil.com>
Sent: Wednesday, August 01, 2018 4:09 PM
To: Tyler Jolly
Subject: RE: Creedence 21-16 Wells Eddy County NM

Ok – that makes sense. Thanks so much for the explanation. Karen

From: Tyler Jolly [<mailto:tjolly@mewbourne.com>]
Sent: Wednesday, August 01, 2018 3:34 PM
To: Karen Stanford
Subject: RE: Creedence 21-16 Wells Eddy County NM

Karen,

Most other parties have already signed the JOA, which has a clock that activities must be performed by. These parties did not receive the five (5) additional Wolfcamp proposals.

It's a lengthy process to get the parties who have not signed the JOA signed up or under a pooling order.

This being the case, at this time there is no reason to propose the five (5) additional Wolfcamp wells to parties that have signed the agreement. We can propose the wells at a later date and they will be bound by the agreement to sign up in 30 days or go non-consent in the proposed wells.

Tyler Jolly
Mewbourne Oil Company
500 West Texas, Suite 1020,
Midland, TX 79701
Ph: 432-682-3715

From: Karen Stanford [<mailto:kstanford@sianaoil.com>]
Sent: Wednesday, August 01, 2018 11:55 AM
To: Tyler Jolly
Subject: Creedence 21-16 Wells Eddy County NM

Hi Tyler,

Tom Ragsdale recently received the 7 new Creedence AFES Mewbourne is proposing. I just want to be sure that there are now a total of 11 Creedence AFE proposals. Peter Way told me he only received 2 new AFEs, so a total of 6 wells. I was wondering why there may be a discrepancy. Can you explain?

Thanks,

Karen Stanford

MEWBOURNE OIL COMPANY

500 West Texas, Suite 1020
Midland, Texas 79701
Phone (432) 682-3715
Fax (432) 685-4170

July 19, 2018

Certified Mail

Attwell Interests, Inc.
2410 Lock Lane
Houston, TX 77019
Attn: Kirby Attwell

Re: Proposed Horizontal Tests
Creedence 21-16 B3GB State Com #1H
Creedence 21-16 B3HA State Com #1H
Creedence 21-16 W0GB State Com #3H
Creedence 21-16 W2GB State Com #6H
Creedence 21-16 W2GB State Com #7H
Creedence 21-16 W2HA State Com #4H
Creedence 21-16 W2HA State Com #5H
All of Section 16 and the N2 of Section 21
T24S, R28E, Eddy County, New Mexico
Creedence 21-16 Prospect

Ladies and Gentlemen:

Per Operating Agreement dated April 15, 2018, Mewbourne Oil Company, as Operator, hereby proposes drilling the following seven (7) horizontal tests:

1) Creedence 21-16 B3GB State Com #1H – APD in process
Surface Location: 2630' FNL, 2015' FEL, Section 21, UL G
Bottom Hole Location: 100' FNL, 200' FEL, Section 16, UL B
Proposed Total Vertical Depth: 9,385'
Proposed Total Measured Depth: 16,735'
Formation: Bone Spring

2) Creedence 21-16 B3HA State Com #1H – APD in process
Surface Location: 2630' FNL, 635' FEL, Section 21, UL H
Bottom Hole Location: 100' FNL, 700' FEL, Section 16, UL A
Proposed Total Vertical Depth: 9,405'
Proposed Total Measured Depth: 16,755'
Formation: Bone Spring

3) Creedence 21-16 W0GB State Com #3H – APD in process
Surface Location: 2630' FNL, 1985' FEL, Section 21, UL G
Bottom Hole Location: 330' FNL, 2220' FEL, Section 16, UL B
Proposed Total Vertical Depth: 9,540'
Proposed Total Measured Depth: 16,915'
Formation: Wolfcamp

4) Creedence 21-16 W2GB State Com #6H – APD in process
Surface Location: 2630' FNL, 1925' FEL, Section 21, UL G
Bottom Hole Location: 330' FNL, 1650' FEL, Section 16, UL B
Proposed Total Vertical Depth: 10,585'
Proposed Total Measured Depth: 17,050'
Formation: Wolfcamp

5) Creedence 21-16 W2GB State Com #7H – APD in process
Surface Location: 2630' FNL, 1955' FEL, Section 21, UL G
Bottom Hole Location: 330' FNL, 2310' FEL, Section 16, UL B
Proposed Total Vertical Depth: 10,385'
Proposed Total Measured Depth: 16,850'
Formation: Wolfcamp

6) Creedence 21-16 W2HA State Com #4H – APD in process
Surface Location: 2630' FNL, 605' FEL, Section 21, UL H
Bottom Hole Location: 330' FNL, 330' FEL, Section 16, UL A
Proposed Total Vertical Depth: 10,595'
Proposed Total Measured Depth: 17,060'
Formation: Wolfcamp

7) Creedence 21-16 W2HA State Com #5H – APD in process
Surface Location: 2630' FNL, 735' FEL, Section 21, UL H
Bottom Hole Location: 330' FNL, 990' FEL, Section 16, UL A
Proposed Total Vertical Depth: 10,395'
Proposed Total Measured Depth: 16,860'
Formation: Wolfcamp

In the event you elect to participate in the proposed wells, please execute the enclosed AFEs and return them to the undersigned within thirty (30) days. Please enclose your most current well information requirements so that we may supply well data when available.

Please contact me at (432) 682-3715 or via email at tjolly@mewbourne.com if you have any questions.

Very truly yours,

MEWBOURNE OIL COMPANY


Tyler Jolly
Landman

Enclosures



July 26, 2018

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 5032 9692 99.

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Status:	Delivered, Left with Individual
Status Date / Time:	July 26, 2018, 12:23 pm
Location:	HOUSTON, TX 77019
Postal Product:	First-Class Mail®
Extra Services:	Certified Mail™ Return Receipt Electronic
Recipient Name:	Attwell Interests Inc

Shipment Details

Weight:	3.0oz
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Recipient Signature

Signature of Recipient:

Address of Recipient:

2410 LOCKE LN
77011

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Sincerely,
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Washington, D.C. 20260-0004

Attwell Interests, Inc.
2410 LOCKE LN
HOUSTON, TX 77019
Reference #: Creedence 21 16 Prospect TJ
Item ID: Creedence 21 16 Prospect

MEWBOURNE OIL COMPANY

500 West Texas, Suite 1020

Midland, Texas 79701

Phone (432) 682-3715

Fax (432) 685-4170

July 19, 2018

Certified Mail

Stillwater Investments

P.O. Box 51991

Midland, TX 79710

Re: Proposed Horizontal Tests
Creedence 21-16 B3GB State Com #1H
Creedence 21-16 B3HA State Com #1H
Creedence 21-16 W0GB State Com #3H
Creedence 21-16 W2GB State Com #6H
Creedence 21-16 W2GB State Com #7H
Creedence 21-16 W2HA State Com #4H
Creedence 21-16 W2HA State Com #5H
All of Section 16 and the N2 of Section 21
T24S, R28E, Eddy County, New Mexico
Creedence 21-16 Prospect

Ladies and Gentlemen:

Per Operating Agreement dated April 15, 2018, Mewbourne Oil Company, as Operator, hereby proposes drilling the following seven (7) horizontal tests:

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Proposed Total Measured Depth: 16,735'
Formation: Bone Spring

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Surface Location: 2630' FNL, 635' FEL, Section 21, UL H
Bottom Hole Location: 100' FNL, 700' FEL, Section 16, UL A
Proposed Total Vertical Depth: 9,405'
Proposed Total Measured Depth: 16,755'
Formation: Bone Spring

3) Creedence 21-16 W0GB State Com #3H – APD in process
Surface Location: 2630' FNL, 1985' FEL, Section 21, UL G
Bottom Hole Location: 330' FNL, 2220' FEL, Section 16, UL B
Proposed Total Vertical Depth: 9,540'
Proposed Total Measured Depth: 16,915'
Formation: Wolfcamp

4) Creedence 21-16 W2GB State Com #6H – APD in process
Surface Location: 2630' FNL, 1925' FEL, Section 21, UL G
Bottom Hole Location: 330' FNL, 1650' FEL, Section 16, UL B
Proposed Total Vertical Depth: 10,585'
Proposed Total Measured Depth: 17,050'
Formation: Wolfcamp

5) Creedence 21-16 W2GB State Com #7H – APD in process
Surface Location: 2630' FNL, 1955' FEL, Section 21, UL G
Bottom Hole Location: 330' FNL, 2310' FEL, Section 16, UL B
Proposed Total Vertical Depth: 10,385'
Proposed Total Measured Depth: 16,850'
Formation: Wolfcamp

6) Creedence 21-16 W2HA State Com #4H – APD in process
Surface Location: 2630' FNL, 605' FEL, Section 21, UL H
Bottom Hole Location: 330' FNL, 330' FEL, Section 16, UL A
Proposed Total Vertical Depth: 10,595'
Proposed Total Measured Depth: 17,060'
Formation: Wolfcamp


7) Creedence 21-16 W2HA State Com #5H – APD in process
Surface Location: 2630' FNL, 735' FEL, Section 21, UL H
Bottom Hole Location: 330' FNL, 990' FEL, Section 16, UL A
Proposed Total Vertical Depth: 10,395'
Proposed Total Measured Depth: 16,860'
Formation: Wolfcamp

In the event you elect to participate in the proposed wells, please execute the enclosed AFEs and return them to the undersigned within thirty (30) days. Please enclose your most current well information requirements so that we may supply well data when available.

Please contact me at (432) 682-3715 or via email at tjolly@mewbourne.com if you have any questions.

Very truly yours,

MEWBOURNE OIL COMPANY



Tyler Jolly
Landman

Enclosures



July 25, 2018

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 5032 9693 29.

Item Details

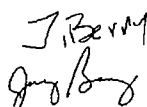
Status:	Delivered
Status Date / Time:	July 25, 2018, 8:47 am
Location:	MIDLAND, TX 79705
Postal Product:	First-Class Mail®
Extra Services:	Certified Mail™
	Return Receipt Electronic
Recipient Name:	Tarpon Engineering Corp

Shipment Details

Weight:	2.0oz
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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

Tarpon Engineering Corp.
303 VETERANS AIRPARK LN STE 4100
MIDLAND, TX 79705
Reference #: Creedence 21 16 Prospect TJ
Item ID: Creedence 21 16 Prospect

Tyler Jolly

From: Charlie McMillian <charlie@fivese.com>
Sent: Monday, May 21, 2018 2:55 PM
To: Tyler Jolly
Subject: Creedence Wells

Mr. Jolly,

I am in receipt of your well proposals for the Creedence wells in Eddy County, NM addressed to Tarpon Engineering & Stillwater Investments. They would consider assigning their interest in lieu of participating. However, they currently have offers for \$15,000/ac near by in Eddy county. Would Mewbourne be interested in increasing their offer for any assignment?

Thank You,
Charlie McMillian
Landman
Fivestones Energy, LLC
P.O. Box 51082
Midland, TX 79710-1082
Phone: 432-618-9929
Fax: 432-617-2586
Cell: 432-978-0783
charlie@fivese.com

fivestones
ENERGY

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Tyler Jolly

From: Charlie McMillian <charlie@fivese.com>
Sent: Thursday, September 06, 2018 12:57 PM
To: Tyler Jolly
Subject: Re: Signed Creedence 21-16 JOA Pages

He said he did not receive a JOA with the AFEs. The proposal referenced a JOA Tarpon signed back in the spring (Mar or Apr I believe). I can get him to sign it either way, no problem.

Thank You,
Charlie McMillian
Landman
Fivestones Energy, LLC
P.O. Box 51082
Midland, TX 79710-1082
Phone: 432-618-9929
Fax: 432-617-2586
Cell: 432-978-0783
charlie@fivese.com



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On Sep 4, 2018, at 10:54 AM, Tyler Jolly <tjolly@mewbourne.com> wrote:

Charlie,

I received AFE's for the Creedence from Tarpon. Is the JOA signed? I need that also.

Tyler

From: Charlie McMillian [<mailto:charlie@fivese.com>]
Sent: Tuesday, August 28, 2018 1:59 PM

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On Aug 14, 2018, at 2:13 PM, Tyler Jolly <tjolly@mewbourne.com> wrote:

I'm showing Tarpon with 0.85 net acres limited to depths below the base of the Bone Spring formation in the N2 of Section 16.

From: Charlie McMillian [<mailto:charlie@fivese.com>]

Sent: Monday, August 13, 2018 3:59 PM

To: Tyler Jolly

Subject: Re: Signed Creedence 21-16 JOA Pages

What is Tarpon's interest amount in the Creedence Wells?

Thank You,
Charlie McMillian
Landman
Fivestones Energy, LLC
P.O. Box 51082
Midland, TX 79710-1082
Phone: 432-618-9929
Fax: 432-617-2586
Cell: 432-978-0783
charlie@fivese.com

<image001.jpg>

Tyler Jolly

From: Charlie McMillian <charlie@fivese.com>
Sent: Thursday, September 06, 2018 1:06 PM
To: Tyler Jolly
Subject: Re: Signed Creedence 21-16 JOA Pages

OK. I mailed Stillwater's to you on Tuesday.

Thank You,
Charlie McMillian
Landman
Fivestones Energy, LLC
P.O. Box 51082
Midland, TX 79710-1082
Phone: 432-618-9929
Fax: 432-617-2586
Cell: 432-978-0783
charlie@fivese.com

fivestones
ENERGY

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On Sep 6, 2018, at 1:04 PM, Tyler Jolly <tjolly@mewbourne.com> wrote:

See attached pages. He can strike Engineering and write in Industries. What is Stillwater wanting to do? I'll send you the full JOA in another email.

Tyler Jolly
Mewbourne Oil Company
500 West Texas, Suite 1020,
Midland, TX 79701
Ph: 432-682-3715

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 _____ Date: <u>7/13/2018</u>
Company Approval: _____	Date: _____
Joint Owner Interest: _____ Amount: _____	
Joint Owner Name: _____	Signature: _____

MEWBOURNE OIL COMPANY
AUTHORIZATION FOR EXPENDITURE

Well Name:	Creedence 21/16 W2HA State Com #4H	Prospect:	Wolfcamp D Shale										
Location:	SL: 2630' FNL & 605' FEL (21); BHL: 330' FNL & 330' FEL (16)	County:	Eddy	ST:	NM								
Sec.	21/16	Blk:		Survey:		TWP:	24S	RNG:	28E	Prop. TVD:	10595	TMD:	17060

INTANGIBLE COSTS 0180	CODE	TCP	CODE	CC
Regulatory Permits & Surveys	0180-0100	\$10,000	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 32 days drlg / 4 days comp @ \$21,000/d	0180-0110	\$718,000	0180-0210	\$89,700
Fuel 1500 gal/day @ 2.70/gal	0180-0114	\$158,300	0180-0214	\$385,000
Mud, Chemical & Additives	0180-0120	\$225,000	0180-0220	
Horizontal Drillout Services Coil Tbg Drillout			0180-0222	\$200,000
Cementing	0180-0125	\$150,000	0180-0225	\$30,000
Logging & Wireline Services	0180-0130	\$2,000	0180-0230	\$360,000
Casing / Tubing / Snubbing Service	0180-0134	\$20,000	0180-0234	\$80,000
Mud Logging	0180-0137	\$20,000		
Stimulation 45 Stg 18.0 MM gal / 18.0 MM lb			0180-0241	\$2,710,000
Stimulation Rentals & Other			0180-0242	\$175,000
Water & Other	0180-0145	\$50,000	0180-0245	\$450,000
Bits	0180-0148	\$81,000	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	\$52,500	0180-0270	\$33,000
Directional Services Includes Vertical Control	0180-0175	\$294,000		
Equipment Rental	0180-0180	\$270,800	0180-0280	\$30,000
Well / Lease Legal	0180-0184	\$5,000	0180-0284	
Well / Lease Insurance	0180-0185	\$5,300	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	\$1,000
Pipeline Interconnect			0180-0293	
Company Supervision	0180-0195	\$168,000	0180-0295	\$105,600
Overhead Fixed Rate	0180-0196	\$10,000	0180-0296	\$20,000
Well Abandonment	0180-0198		0180-0298	
Contingencies 10% (TCP) 10% (CC)	0180-0199	\$273,300	0180-0299	\$483,300
TOTAL		\$3,006,200		\$5,316,100

TANGIBLE COSTS 0181				
Casing (19.1" - 30")	0181-0793			
Casing (10.1" - 19.0") 450' - 13 3/8" 54.5# J-55 ST&C @ \$35.90/ft	0181-0794	\$17,300		
Casing (8.1" - 10.0") 2500' - 9 5/8" 40# J-55 LT&C @ \$27.61/ft	0181-0795	\$73,800		
Casing (6.1" - 8.0") 10920' - 7" 29# P-110 LT&C @ \$27.76/ft	0181-0796	\$323,800		
Casing (4.1" - 6.0") 8000' - 4 1/2" 13.5# P-110 LTC @ \$13.66/ft			0181-0797	\$116,800
Tubing (2" - 4")			0181-0798	
Drilling Head	0181-0860	\$40,000		
Tubing Head & Upper Section			0181-0870	\$30,000
Horizontal Completion Tools Completion Liner Hanger			0181-0871	\$70,000
Sucker Rods			0181-0875	
Subsurface Equipment			0181-0880	
Artificial Lift Systems			0181-0884	
Pumping Unit			0181-0885	
Surface Pumps & Prime Movers 1/2 VRU/SWD Pump/Circ Pump			0181-0886	\$35,000
Tanks - Oil 3 - 750 bbl			0181-0890	\$55,000
Tanks - Water 3 - 750 bbl			0181-0891	\$60,000
Separation / Treating Equipment 30"x10"x1k# 3 ph/36"x15"x1k# Hor 3ph/Gun bbl			0181-0895	\$45,000
Heater Treaters, Line Heaters 8'x20'x75# HT			0181-0897	\$23,000
Metering Equipment			0181-0898	\$14,000
Line Pipe & Valves - Gathering			0181-0900	\$50,000
Fittings / Valves & Accessories			0181-0906	\$60,000
Cathodic Protection			0181-0908	\$8,000
Electrical Installation			0181-0909	\$50,000
Equipment Installation			0181-0910	\$40,000
Pipeline Construction			0181-0920	\$10,000
TOTAL		\$454,900		\$666,800
SUBTOTAL		\$3,461,100		\$5,982,900
TOTAL WELL COST		\$9,444,000		

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:	T. Cude	Date:	7/13/2018
Company Approval:		Date:	
Joint Owner Interest:	Amount:	Signature:	
Joint Owner Name:			

MEWBOURNE OIL COMPANY
AUTHORIZATION FOR EXPENDITURE

Well Name:	Creedence 21/16 W2HA State Com #5H	Prospect:	Wolfcamp D Shale										
Location:	SL: 2630' FNL & 735' FEL (21); BHL: 330' FNL & 990' FEL (16)	County:	Eddy	ST:	NM								
Sec.	21/16	Blk:		Survey:		TWP:	24S	RNG:	28E	Prop. TVD:	10395	TMD:	16860

INTANGIBLE COSTS 0180	CODE	TCP	CODE	CC
Regulatory Permits & Surveys	0180-0100	\$10,000	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 32 days drlg / 4 days comp @ \$21,000/d	0180-0110	\$718,000	0180-0210	\$89,700
Fuel 1500 gal/day @ 2.70/gal	0180-0114	\$158,300	0180-0214	\$385,000
Mud, Chemical & Additives	0180-0120	\$225,000	0180-0220	
Horizontal Drillout Services Coil Tbg Drillout			0180-0222	\$200,000
Cementing	0180-0125	\$150,000	0180-0225	\$30,000
Logging & Wireline Services	0180-0130	\$2,000	0180-0230	\$360,000
Casing / Tubing / Snubbing Service	0180-0134	\$20,000	0180-0234	\$80,000
Mud Logging	0180-0137	\$20,000		
Stimulation 45 Stg 18.0 MM gal / 18.0 MM lb			0180-0241	\$2,710,000
Stimulation Rentals & Other			0180-0242	\$175,000
Water & Other	0180-0145	\$50,000	0180-0245	\$450,000
Bits	0180-0148	\$81,000	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	\$52,500	0180-0270	\$33,000
Directional Services Includes Vertical Control	0180-0175	\$294,000		
Equipment Rental	0180-0180	\$270,800	0180-0280	\$30,000
Well / Lease Legal	0180-0184	\$5,000	0180-0284	
Well / Lease Insurance	0180-0185	\$5,200	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	\$1,000
Pipeline Interconnect			0180-0293	
Company Supervision	0180-0195	\$168,000	0180-0295	\$105,600
Overhead Fixed Rate	0180-0196	\$10,000	0180-0296	\$20,000
Well Abandonment	0180-0198		0180-0298	
Contingencies 10% (TCP) 10% (CC)	0180-0199	\$273,300	0180-0299	\$483,300
TOTAL		\$3,006,100		\$5,316,100

TANGIBLE COSTS 0181				
Casing (19.1" - 30")	0181-0793			
Casing (10.1" - 19.0") 450' - 13 3/8" 54.5# J-55 ST&C @ \$35.90/ft	0181-0794	\$17,300		
Casing (8.1" - 10.0") 2500' - 9 5/8" 40# J-55 LT&C @ \$27.61/ft	0181-0795	\$73,800		
Casing (6.1" - 8.0") 10720' - 7" 29# P-110 LT&C @ \$27.76/ft	0181-0796	\$317,900		
Casing (4.1" - 6.0") 8000' - 4 1/2" 13.5# P-110 LTC @ \$13.66/ft			0181-0797	\$116,800
Tubing (2" - 4")			0181-0798	
Drilling Head	0181-0860	\$40,000		
Tubing Head & Upper Section			0181-0870	\$30,000
Horizontal Completion Tools Completion Liner Hanger			0181-0871	\$70,000
Sucker Rods			0181-0875	
Subsurface Equipment			0181-0880	
Artificial Lift Systems			0181-0884	
Pumping Unit			0181-0885	
Surface Pumps & Prime Movers 1/2 VRU/SWD Pump/Circ Pump			0181-0886	\$35,000
Tanks - Oil 3 - 750 bbl			0181-0890	\$55,000
Tanks - Water 3 - 750 bbl			0181-0891	\$60,000
Separation / Treating Equipment 30"x10"x1k# 3 ph/36"x15"x1k# Hor 3ph/Gun bbl			0181-0895	\$45,000
Heater Treaters, Line Heaters 8'x20'x75# HT			0181-0897	\$23,000
Metering Equipment			0181-0898	\$14,000
Line Pipe & Valves - Gathering			0181-0900	\$50,000
Fittings / Valves & Accessories			0181-0906	\$60,000
Cathodic Protection			0181-0908	\$8,000
Electrical Installation			0181-0909	\$50,000
Equipment Installation			0181-0910	\$40,000
Pipeline Construction			0181-0920	\$10,000
TOTAL		\$449,000		\$666,800
SUBTOTAL		\$3,455,100		\$5,982,900

TOTAL WELL COST	\$9,438,000
-----------------	-------------

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:	T. Cude	Date:	7/13/2018
Company Approval:		Date:	
Joint Owner Interest:	Amount:		
Joint Owner Name:		Signature:	

MEWBOURNE OIL COMPANY
AUTHORIZATION FOR EXPENDITURE

Well Name: <div>Creedence 21/16 W2GB State Com #6H</div>		Prospect: <div>Wolfcamp D Shale</div>			
Location: <div>SL: 2630' FNL & 1925' FEL (21); BHL: 330' FNL & 1650' FEL (16)</div>		County: <div>Eddy</div>	ST: <div>NM</div>		
Sec. <div>21/16</div>	Blk: <div></div>	Survey: <div></div>	TWP: <div>24S</div> RNG: <div>28E</div> Prop. TVD: <div>10585</div> TMD: <div>17050</div>		
INTANGIBLE COSTS 0180		CODE	TCP	CODE	CC
Regulatory Permits & Surveys		0180-0100	\$10,000	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 32 days drlg / 4 days comp @ \$21,000/d		0180-0110	\$718,000	0180-0210	\$89,700
Fuel 1500 gal/day @ 2.70/gal		0180-0114	\$158,300	0180-0214	\$385,000
Mud, Chemical & Additives		0180-0120	\$225,000	0180-0220	
Horizontal Drillout Services Coil Tbg Drillout				0180-0222	\$200,000
Cementing		0180-0125	\$150,000	0180-0225	\$30,000
Logging & Wireline Services		0180-0130	\$2,000	0180-0230	\$360,000
Casing / Tubing / Snubbing Service		0180-0134	\$20,000	0180-0234	\$80,000
Mud Logging		0180-0137	\$20,000		
Stimulation 45 Stg 18.0 MM gal / 18.0 MM lb				0180-0241	\$2,710,000
Stimulation Rentals & Other				0180-0242	\$175,000
Water & Other		0180-0145	\$50,000	0180-0245	\$450,000
Bits		0180-0148	\$81,000	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	\$52,500	0180-0270	\$33,000
Directional Services Includes Vertical Control		0180-0175	\$294,000		
Equipment Rental		0180-0180	\$270,800	0180-0280	\$30,000
Well / Lease Legal		0180-0184	\$5,000	0180-0284	
Well / Lease Insurance		0180-0185	\$5,300	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	\$1,000
Pipeline Interconnect				0180-0293	
Company Supervision		0180-0195	\$168,000	0180-0295	\$105,600
Overhead Fixed Rate		0180-0196	\$10,000	0180-0296	\$20,000
Well Abandonment		0180-0198		0180-0298	
Contingencies 10% (TCP) 10% (CC)		0180-0199	\$273,300	0180-0299	\$483,300
TOTAL			\$3,006,200		\$5,316,100
TANGIBLE COSTS 0181					
Casing (19.1" - 30")		0181-0793			
Casing (10.1" - 19.0") 450' - 13 3/8" 54.5# J-55 ST&C @ \$35.90/ft		0181-0794	\$17,300		
Casing (8.1" - 10.0") 2500' - 9 5/8" 40# J-55 LT&C @ \$27.61/ft		0181-0795	\$73,800		
Casing (6.1" - 8.0") 10910' - 7" 29# P-110 LT&C @ \$27.76/ft		0181-0796	\$323,500		
Casing (4.1" - 6.0") 8000' - 4 1/2" 13.5# P-110 LTC @ \$13.66/ft				0181-0797	\$116,800
Tubing (2" - 4")				0181-0798	
Drilling Head		0181-0860	\$40,000		
Tubing Head & Upper Section				0181-0870	\$30,000
Horizontal Completion Tools Completion Liner Hanger				0181-0871	\$70,000
Sucker Rods				0181-0875	
Subsurface Equipment				0181-0880	
Artificial Lift Systems				0181-0884	
Pumping Unit				0181-0885	
Surface Pumps & Prime Movers 1/2 VRU/SWD Pump/Circ Pump				0181-0886	\$35,000
Tanks - Oil 3 - 750 bbl				0181-0890	\$55,000
Tanks - Water 3 - 750 bbl				0181-0891	\$60,000
Separation / Treating Equipment 30"x10"x1k# 3 ph/36"x15"x1k# Hor 3ph/Gun bbl				0181-0895	\$45,000
Heater Treaters, Line Heaters 8'x20'x75# HT				0181-0897	\$23,000
Metering Equipment				0181-0898	\$14,000
Line Pipe & Valves - Gathering				0181-0900	\$50,000
Fittings / Valves & Accessories				0181-0906	\$60,000
Cathodic Protection				0181-0908	\$8,000
Electrical Installation				0181-0909	\$50,000
Equipment Installation				0181-0910	\$40,000
Pipeline Construction				0181-0920	\$10,000
TOTAL			\$454,600		\$666,800
SUBTOTAL			\$3,460,800		\$5,982,900
TOTAL WELL COST		\$9,443,700			
Extra Expense Insurance					
<div><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.</div>					
<div><input type="checkbox"/> I elect to purchase my own well control insurance policy.</div>					
If neither box is checked above, non-operating working interest owner elects to be covered by Operator's well control insurance.					
Prepared by: <div>T. Cude</div> Date: <div>7/13/2018</div>					
Company Approval: _____ Date: _____					
Joint Owner Interest: _____ Amount: _____					
Joint Owner Name: _____ Signature: _____					

MEWBOURNE OIL COMPANY
AUTHORIZATION FOR EXPENDITURE

Well Name: Creedence 21/16 W2GB State Com #7H		Prospect: Wolfcamp D Shale	
Location: SL: 2630' FNL & 1955' FEL (21); BHL: 330' FNL & 2310' FEL (16)		County: Eddy ST: NM	
Sec. 21/16	Blk:	Survey:	TWP: 24S RNG: 28E Prop. TVD: 10385 TMD: 16850

INTANGIBLE COSTS 0180	CODE	TCP	CODE	CC
Regulatory Permits & Surveys	0180-0100	\$10,000	0180-0200	
Location / Road / Site / Preparation	0180-0105	\$50,000	0180-0205	\$25,000
Location / Restoration	0180-0106	\$200,000	0180-0206	\$30,000
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Fuel 1500 gal/day @ 2.70/gal	0180-0114	\$158,300	0180-0214	\$385,000
Mud, Chemical & Additives	0180-0120	\$225,000	0180-0220	
Horizontal Drillout Services Coil Tbg Drillout			0180-0222	\$200,000
Cementing	0180-0125	\$150,000	0180-0225	\$30,000
Logging & Wireline Services	0180-0130	\$2,000	0180-0230	\$360,000
Casing / Tubing / Snubbing Service	0180-0134	\$20,000	0180-0234	\$80,000
Mud Logging	0180-0137	\$20,000		
Stimulation 45 Stg 18.0 MM gal / 18.0 MM lb			0180-0241	\$2,710,000
Stimulation Rentals & Other			0180-0242	\$175,000
Water & Other	0180-0145	\$50,000	0180-0245	\$450,000
Bits	0180-0148	\$81,000	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
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Transportation	0180-0165	\$20,000	0180-0265	\$20,000
Welding Services	0180-0168	\$5,000	0180-0268	\$15,000
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TOTAL		\$3,006,100		\$5,316,100

TANGIBLE COSTS 0181				
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Fittings / Valves & Accessories			0181-0906	\$60,000
Cathodic Protection			0181-0908	\$8,000
Electrical Installation			0181-0909	\$50,000
Equipment Installation			0181-0910	\$40,000
Pipeline Construction			0181-0920	\$10,000
TOTAL		\$448,700		\$666,800
SUBTOTAL		\$3,454,800		\$5,982,900
TOTAL WELL COST		\$9,437,700		

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: T. Cude	Date: 7/13/2018
Company Approval:	Date:
Joint Owner Interest: Amount:	Signature:
Joint Owner Name:	

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

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

Case No. 16386

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

Case No. 16387

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

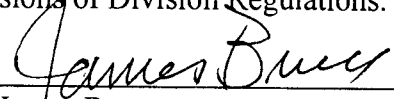
Case No. 16388

AFFIDAVIT OF NOTICE

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

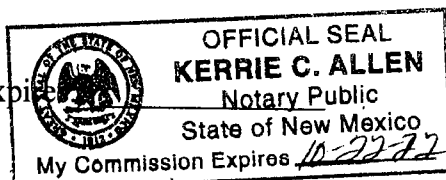
James Bruce, being duly sworn upon his oath, deposes and states:

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


James Bruce

SUBSCRIBED AND SWORN TO before me this 17th day of October, 2018 by
James Bruce.

My Commission Expires



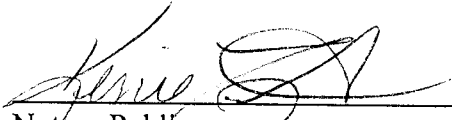

Notary Public

EXHIBIT 5

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

August 11, 2018

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

To: Persons on Exhibit A

Ladies and gentlemen:

Enclosed are copies of the following compulsory pooling applications filed with the New Mexico Oil Conservation Division by Mewbourne Oil Company:

1. Case No. _____, for a Bone Spring well in the W/2NE/4 of Section 21 and W/2E/2 of Section 16;
2. Case No. _____, for a Bone Spring well in the E/2NE/4 of Section 21 and E/2E/2 of Section 16; and
3. Case No. _____, for five Wolfcamp wells in the NE/4 of Section 21 and E/2 of Section 16,

all in Township 24 South, Range 28 East, NMPM, Eddy County, New Mexico.

These matters are scheduled for hearing at 8:15 a.m. on Thursday, September 6, 2018, in Porter Hall at the Division's offices at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest who may be affected by the applications, 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.

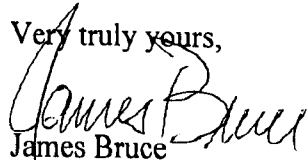
A party appearing in a Division case is required by Division Rules to file a Pre-Hearing Statement no later than Thursday, August 30, 2018. This statement must be filed with the Division's Santa Fe office at the above address, and should include: The names of the party and his or her attorney; a concise 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

ATTACHMENT

A

identification of any procedural matters that need to be resolved prior to the hearing. The Pre-Hearing Statement must also be provided to the undersigned.

Very truly yours,


James Bruce

Attorney for Mewbourne Oil Company

PARTIES NOTIFIED

COG Operating LLC
600 W. Illinois Avenue
Midland, Texas 79701
Attn: Outside Operated Properties

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

CM Resources, LLC
306 W. Wall Street, Suite 500
Midland, TX 79701
Attn: Taylor Craighead

Attwell Interests, Inc.
Attn: Kirby Attwell
2410 Lock Lane
Houston, TX 77019

Kirby Attwell
2410 Lock Lane
Houston, TX 77019

Fasken Land & Minerals
6101 Holiday Hill Road
Midland, TX 79707

TSF WI LP
P.O. Box 222
Midland, TX 79702

Stillwater Investments
Tarpon Engineering Corp.
P.O. Box 51082
Midland, TX 79710

T.I.G. Properties L.P.
P.O. Box 10508
Midland, TX 79702

Tom M. Ragsdale
400 N. Sam Houston Pkwy East, Suite 601
Houston, TX 77060

Pacific VR I.I.C
11510 Montmarte Blvd.
Houston, TX 77082

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 Attn: Kirby Attwell
2410 Lock Lane
Houston, TX 77019

Street and Apt. No., or P.O. Box
City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

1. Article Addressed to:

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

2. Article N 7018 0360 0000 2188 7021

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature X *Marcos Caney* ☐ Agent ☐ Addressee

B. Received by (Printed Name) *Marcos Caney* C. Date of Delivery *8-21-18*

D. Is delivery address different from item 1? ☐ Yes ☐ No

If YES, enter delivery address below:

3. Service Type

☐ Priority Mail Express®

☐ Registered Mail™

☐ Adult Signature Restricted Delivery

☒ Certified Mail®

☐ Return Receipt for Merchandise

☐ Signature Confirmation™

☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt (over \$500) *CV*

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

Street and Apt. No., or P.O. Box
City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

1. Article Addressed to:

Atwell Interests, Inc.
Attn: Kirby Attwell
2410 Lock Lane
Houston, TX 77019

2. Article 7018 0360 0000 2188 7007

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature X *Kirby Attwell* ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery *8-20-18*

D. Is delivery address different from item 1? ☐ Yes ☐ No

If YES, enter delivery address below:

3. Service Type

☐ Priority Mail Express®

☐ Registered Mail™

☐ Adult Signature Restricted Delivery

☒ Certified Mail®

☐ Return Receipt for Merchandise

☐ Signature Confirmation™

☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt (over \$500) *CV*

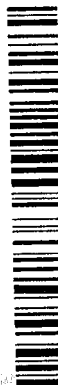
PS Form 3800, April 2015 PSN 7530-02-000-9047

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,
on the front if space permits.

Addressed to:

Kirby Attwell
2410 Lock Lane
Houston, TX 77019



9590 9402 3866 8060 2330 21

7018 0360 0000 2188 6994

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

Domestic Return Receipt

Domestic Return Receipt

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

See Reverse for Instructions

COMPLETE THIS SECTION ON DELIVERY

A. Signature ☒ Agent ☐ Addressee
B. Received by (Printed Name) Kirby Attwell
C. Date of Delivery 8-20-17
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
☐ Return Receipt for Merchandise
☐ Signature Confirmation[™]
☐ Signature Confirmation Restricted Delivery

Postage

Domestic Return Receipt

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

Domestic Return Receipt

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

See Reverse for Instructions

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 Kirby Attwell
2410 Lock Lane
Houston, TX 77019
Street and Apt. No., or P.O. Box
City, State, ZIP+4[®]

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:

Tom M. Ragdale
400 N. Sam Houston Pkwy East, Suite 601
Houston, TX 77060



9590 9402 3866 8060 2329 70

2. Article Number (Transit)

7018 0360 0000 2188 6994

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

Domestic Return Receipt

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

See Reverse for Instructions

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 Tom M. Ragdale
400 N. Sam Houston Pkwy East, Suite 601
Houston, TX 77060
Street and Apt. No., or P.O. Box No.
City, State, ZIP+4[®]

Postmark
Here

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

See Reverse for Instructions

COMPLETE THIS SECTION ON DELIVERY

A. Signature ☒ Agent ☐ Addressee
B. Received by (Printed Name) Tom M. Ragdale
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
☐ Return Receipt for Merchandise
☐ Signature Confirmation[™]
☐ Signature Confirmation 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

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:

Pacific VR LLC
11510 Montmartre Blvd.
Houston, TX 77082



9590 9402 3866 8060 2329 63

7018 0360 0000 2188 6543

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

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

Pacific VR LLC
11510 Montmartre Blvd.
Houston, TX 77082

City, State, ZIP+4®

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

See Reverse for Instructions

COMPLETE THIS SECTION ON DELIVERY

- A. Signature ☒ Agent ☐ Addressee
- B. Received by (Printed Name) See in Reply
- C. Date of Delivery 8-25
- D. Is delivery address different from item 1? ☐ Yes ☐ No
 If YES, enter delivery address below:

3. Service Type
- ☐ Adult Signature
 - ☐ Registered Mail™
 - ☐ Certified Mail®
 - ☐ Collect on Delivery
 - ☐ Return Receipt for Merchandise
 - ☐ Signature Confirmation™
 - ☐ Signature Confirmation Restricted Delivery

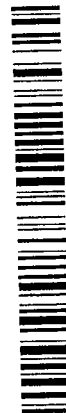
Domestic Return Receipt

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:

Stillwater Investments
Tarpon Engineering Corp.
P.O. Box 51082
Midland, TX 79710



9590 9402 3866 8060 2329 94

2. Article Number 7018 0360 0000 2188 6963

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

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

Stillwater Investments
Tarpon Engineering Corp.
P.O. Box 51082
Midland, TX 79710

City, State, ZIP+4®

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

See Reverse for Instructions

COMPLETE THIS SECTION ON DELIVERY

- A. Signature ☒ Agent ☐ Addressee
- B. Received by (Printed Name) See in Reply
- C. Date of Delivery 8/28/18
- D. Is delivery address different from item 1? ☐ Yes ☐ No
 If YES, enter delivery address below:

3. Service Type
- ☐ Adult Signature
 - ☐ Registered Mail™
 - ☐ Certified Mail®
 - ☐ Collect on Delivery
 - ☐ Return Receipt for Merchandise
 - ☐ Signature Confirmation™
 - ☐ Signature Confirmation 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:

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



9590 9402 4079 8092 0245 97

Article Number (Transfer from front)

7018 0360 0000 2188 7038

Insured Mail Restricted Delivery (over \$500)

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

Domestic Return Receipt

CV

COMPLETE THIS SECTION ON DELIVERY

- A. Signature ☒ Agent ☐ Addressee
B. Received by (Printed Name) 8/17/18 Date of Delivery
C. Is delivery address different from item 1? ☐ Yes ☐ No
D. If YES, enter delivery address below:

3. Service Type
☐ Priority Mail Express®
☐ Registered Mail™
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Restricted Delivery
☐ Signature Confirmation Restricted Delivery

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

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

City, State, ZIP+4®

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

See Reverse for Instructions

Postmark
HereU.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail OnlyFor 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

CM Resources, LLC
306 W. Wall Street, Suite 500
Midland, TX 79701

City, State, ZIP+4®

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

See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

CM Resources, LLC
306 W. Wall Street, Suite 500
Midland, TX 79701



9590 9402 4079 8092 0245 73

2. Article

7018 0360 0000 2188 7014

(over \$500)

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

Domestic Return Receipt

CV

COMPLETE THIS SECTION ON DELIVERY

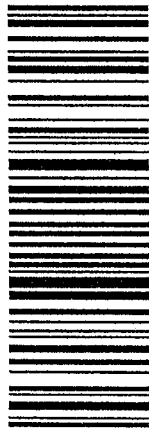
- A. Signature ☒ Agent ☐ Addressee
B. Received by (Printed Name) Jennifer Wilkins C. Date of Delivery 8-17
D. Is delivery address different from item 1? ☐ Yes ☐ No
If YES, enter delivery address below:

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Restricted Delivery
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Restricted Delivery
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

CERTIFIED MAIL®

James Bruce
P.O. Box 1056
Santa Fe, New Mexico 87504



7018 0360 0000 2188 6970

NAME all
1st Notice _____
2nd Notice _____
Return _____

\$6.91⁰
US POSTAGE
FIRST-CLASS
071V00607931
87501
000108668

TSF WLP

NIXIE 799 DE 1 0009/08/18

RETURN TO SENDER
UNCLAIMED
UNABLE TO FORWARD

UNC
87504>1056

BC: 87504105656 *0693-02139-08-33

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

TSF WLP

P.O. Box 222

Street and Apt. No., or P.O. Box Midland, TX 79702

City, State, Zip+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Postmark
Here

CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

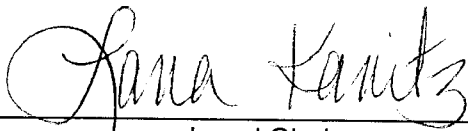
Ad No.
0001258255

JAMES BRUCE ATTORNEY AT LAW
PO BOX 1056

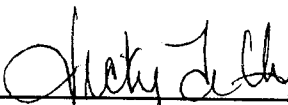
SANTA FE NM 87504

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:

08/16/18


Legal Clerk

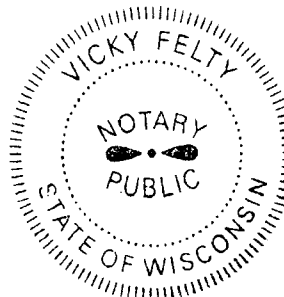
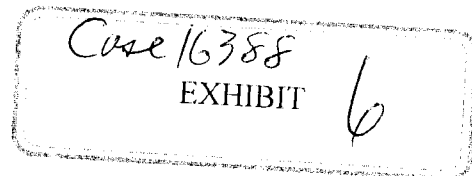
Subscribed and sworn before me this
16th of August 2018.

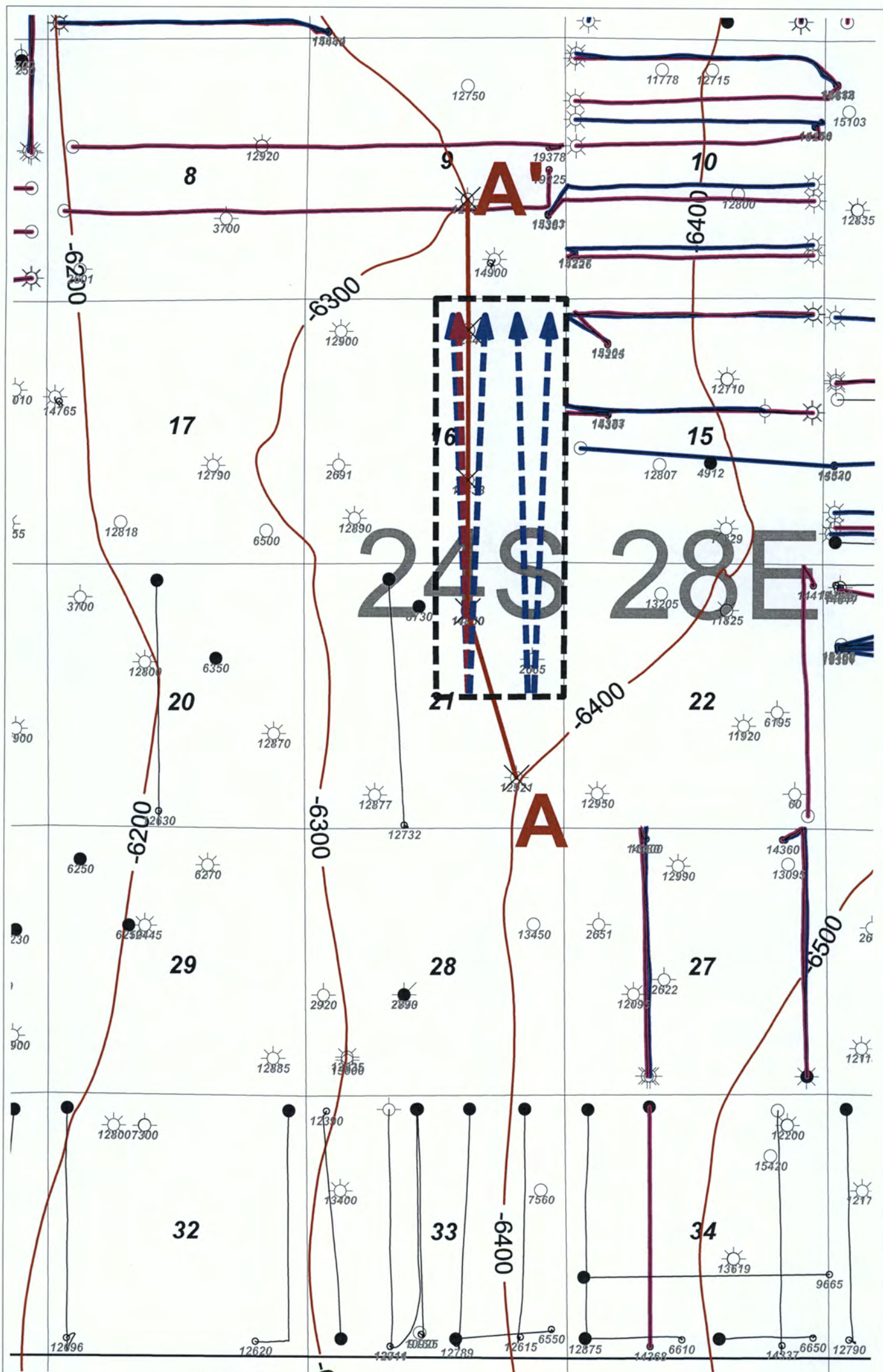

State of WI, County of Brown
NOTARY PUBLIC

9-19-21
My Commission Expires

NOTICE

To: CM Resources, LLC, Atwell Interests, Inc., Kirby Atwell, TSF WI LP, Stillwater Investments, T.I.G. Properties L.P., Tom M. Ragsdale, Pacific VR LLC, COG Operating LLC, Marathon Oil Permian LLC, and Fasken Land & Minerals, or your heirs, devisees, successors, or assigns: Mewbourne Oil Company has applied to the Oil Conservation Division seeking an order pooling all mineral interests in the Wolfcamp formation underlying a horizontal spacing unit comprised of the NE/4 of Section 21 and the E/2 of Section 16, Township 24 South, Range 28 East, NMPM. The unit will be dedicated to the Creedence 21/16 W0GB State Com. Well No. 3H, the Creedence W2GB State Com. Well No. 4H, the Creedence 21/16 W2HA State Com. Well No. 5H, the Creedence 21/16 W2GB State Com. Well No. 6H, and the Creedence 21/16 W2GB State Com. Well No. 7H, horizontal wells with surface locations in the S/2NE/4 of Section 21, and final take points in the N/2NE/4 of Section 16. 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 September 6, 2018 at the Division's offices at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. As an interest owner to 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 1 mile west of Malaga, New Mexico. August 16, 2018





Horizontal Activity Color Code

— Wolfcamp Sand

— Wolfcamp Shale



Mewbourne Oil Company

Mewbourne Oil Company

Creedence 21/16 W0GB State Com 3H
 Creedence 21/16 W2GB State Com 6H & 7H
 Creedence 21/16 W2HA State Com 4H & 5H
Horizontal Activity Map
 Structure Top of WFMP (C.I. 100')

10/15/2018	Eddy County	New Mexico
Geol. C. Crosby		

Ex. 7

A
S

30015330310000
OCFL PERMAN LIMITED
OFL NEW ZIPPER FEDERAL 1
Datum=2025.00
TWP: 18 S - Range: 16 E - Sec: 10

30015230300000
PARKER & PARKLEY PETROLEUM COMPANY
PARKLEY FARM 21
Datum=2042.00
TWP: 18 S - Range: 16 E - Sec: 10

30015217800000
AMR/OIL USA INC
WILLOW LAKE UNIT 2
Datum=2038.00
TWP: 18 S - Range: 16 E - Sec: 10

30015227300000
INGO OIL COMPANY
NEW MEXICO 16 STATE 1
Datum=2025.00
TWP: 18 S - Range: 16 E - Sec: 10

30015230300000
MEWBOURNE OIL COMPANY
WOODS 9 COM 1
Datum=2045.00
TWP: 18 S - Range: 16 E - Sec: 10

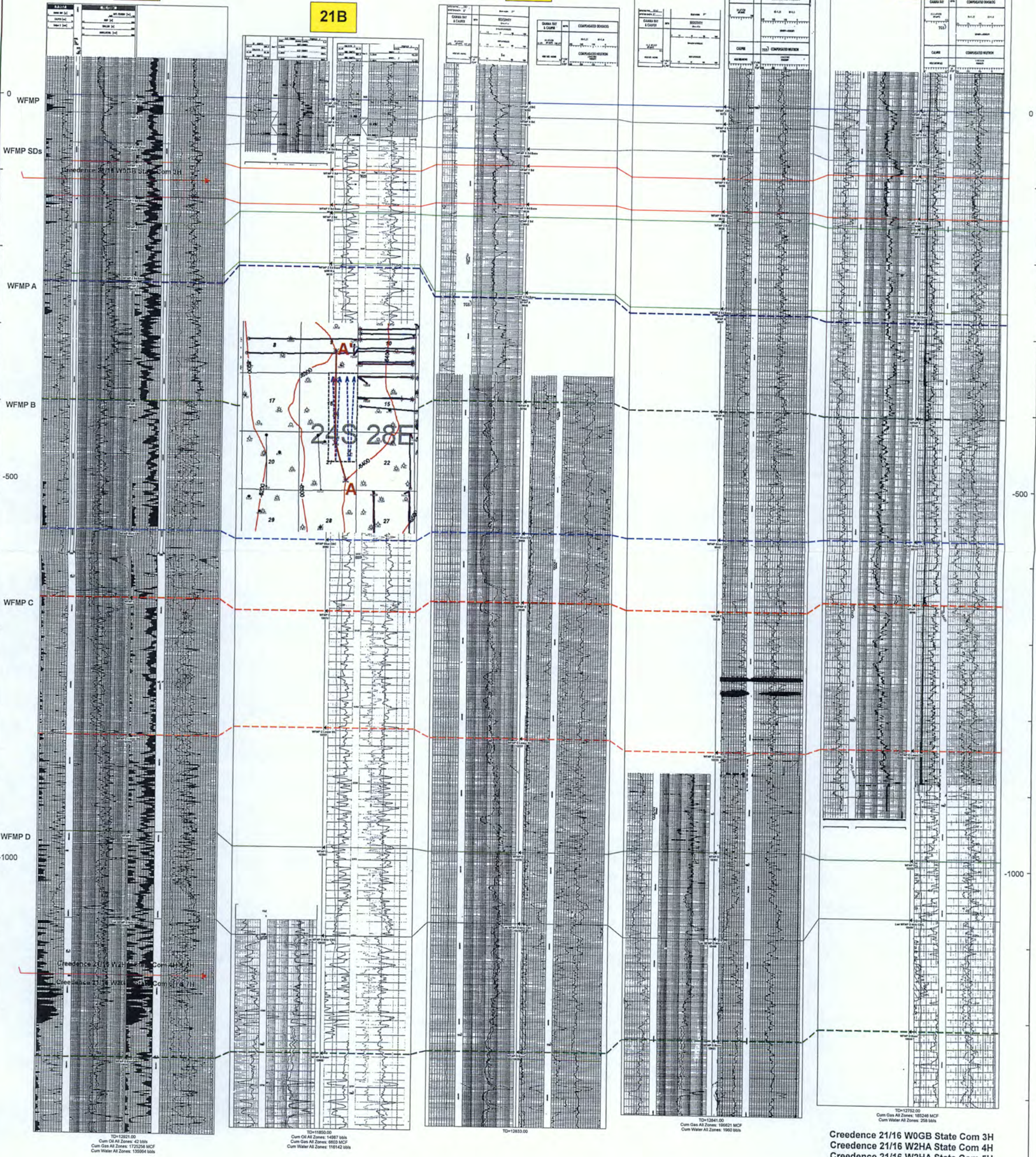
A'
N

21P

16J

16B

9J



Creedence 21/16 W0GB State Com 3H
Creedence 21/16 W2HA State Com 4H
Creedence 21/16 W2HA State Com 5H
Creedence 21/16 W2GB State Com 6H
Creedence 21/16 W2GB State Com 7H
Cross Section Exhibit (A-A')

EX-8

Creedence/Kansas Area Offset Wolfcamp Production Table

Well Name	Operator	API	Locaiton	WFMP Comp Date	Cum Oil (Mbo)	Cum Gas (Bcf)	Cum Water (Mbw)	NS/EW	WFMP Zone
Guitar 10 24 28 RB 202H	Matador	3001542660	10H/24S/28E	4/2/2015	225.4	0.4	672.3	EW	WFMP Y Sand
Rock Spur 27 W2CN State Com 1H	Mewbourne	3001543212	27C/24S/28E	6/30/2017	162.9	1.8	531.8	NS	WFMP D Shale
Guitar 10-24S-28E RB 222H	Matador	3001543693	10H/24S/28E	8/12/2016	120.1	1.07	427.8	EW	WFMP D Shale
Anne Com 15 24S 28E RB 221H	Matador	3001543899	15D/24S/28E	11/21/2016	107.9	1.3	473.5	EW	WFMP D Shale
Guitar 10 24 28 RB 201H	Matador	3001543940	11D/24S/28E	5/20/2017	180.7	0.4	576.3	EW	WFMP Y Sand
Guitar 10 24 28 RB 221H	Matador	3001543966	11D/24S/28E	4/30/2017	93.1	1.2	392.1	EW	WFMP D Shale
Guitar 10 24S 28E RB 205H	Matador	3001543993	11D/24S/28E	5/17/2017	132.7	0.4	433	EW	WFMP Y Sand
Rock Spur 27 W0CN State Com 2H	Mewbourne	3001544064	27C/24S/28E	6/30/2017	256.9	0.6	681.1	NS	WFMP Y Sand
Anne Com 15 24S 28E RB 201H	Matador	3001544210	15D/24S/28E	10/6/2017	149.1	0.3	412.7	EW	WFMP Y Sand
Tom Matthews 10 24S 28E RB 223H	Matador	3001544257	9I/24/28E	10/21/2017	61.6	1.05	308.2	EW	WFMP D Shale
Anne Com 15 24S 28E 202H	Matador	3001544417	15E/24S/28E	1/7/2018	143.1	0.3	404.5	EW	WFMP Y Sand
Anne Com 15 24S 28E 222H	Matador	3001544421	15E/24S/28E	12/23/2017	54.5	0.8	236.9	EW	WFMP D Shale
Tom Matthews 10 24S 28E RB 204H	Matador	3001544515	10M/24S/28E	5/5/2018	79.7	0.2	262.4	EW	WFMP Y Sand
Tom Matthews 10 24S 28E RB 224H	Matador	3001544516	10M/24S/28E	4/14/2018	35.3	0.5	173.9	EW	WFMP D Shale
Tom Matthews 10 24S 28E RB 203H	Matador	3001544561	9I/24S/28E	4/22/2018	77.2	0.2	273	EW	WFMP Y Sand
Kyle 34 Federal Com 3H	Marathon	3001543405	34N/24S/28E	1/24/2018	Pending				WFMP Y Sand
Rock Spur 27 W2AP State 1H	Mewbourne	3001544092	27A/24S/28E	4/28/2018	Pending				WFMP D Shale
Rock Spur 27 W0AP State 2H	Mewbourne	3001544093	27A/24S/28E	4/28/2018	Pending				WFMP Y Sand
Chicken Fry Federal Com 1H	Marathon	3001542882	22A/24S/28E	Pending				NS	WFMP Y Sand
Willow Lake WC 15 1H	Kaiser-Francis	3001543990	14L/24S/28E	Pending				EW	WFMP D Shale
Chicago 9/8 W0HE Fee Com 1H	Mewbourne	3001544260	9H/24S/28E	Pending				EW	WFMP Y Sand
Chicago 9/8 W0IL Fee Com 1H	Mewbourne	3001544261	9H/24S/28E	Pending				EW	WFMP Y Sand

Ex. 9

Mewbourne Oil Company

SURVEY CALCULATION REPORT Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Creedence 21/16 W0GB State Com 3H
KOP 9079.54
SL: 2630 FNL & 1985 FEL Sec 21-24S-28E
BHL: 330 FNL & 2200 FEL Sec 16-24S-28E

Target KBTVD: 9,557 Feet 9557.00
Target Angle: 90.42 Degrees 90.42
Section Plane: 358.66 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	9079.54	0.00	358.66	N/A	9079.5	0.0	0.0	0.0	0.0	0.0	N/A	N/A	9079.5	477.5	1E-12	6.26 #VALUE!
1	9154.88	9.04	358.66	75.34721	9154.6	5.9	5.9	-0.1	5.9	358.7	12.0	12.0	9154.6	402.4	0.15780683	6.26 0.157807
2	9230.23	18.08	358.66	75.34721	9227.7	23.6	23.6	-0.5	23.6	358.7	12.0	12.0	9227.9	329.1	0.31561366	6.26 0.157807
3	9305.58	27.12	358.66	75.34721	9297.2	52.5	52.5	-1.2	52.5	358.7	12.0	12.0	9297.6	259.4	0.47342048	6.26 0.157807
4	9380.92	36.17	358.66	75.34721	9361.3	92.0	92.0	-2.1	92.0	358.7	12.0	12.0	9362.0	195.0	0.63122731	6.26 0.157807
5	9456.27	45.21	358.66	75.34721	9418.4	141.1	141.0	-3.3	141.1	358.7	12.0	12.0	9419.4	137.6	0.78903414	6.26 0.157807
6	9531.62	54.25	358.66	75.34721	9467.0	198.5	198.5	-4.6	198.5	358.7	12.0	12.0	9468.5	88.5	0.94684097	6.26 0.157807
7	9606.97	63.29	358.66	75.34721	9506.1	262.9	262.8	-6.1	262.9	358.7	12.0	12.0	9508.0	49.0	1.10464779	6.26 0.157807
8	9682.31	72.33	358.66	75.34721	9534.5	332.6	332.5	-7.8	332.6	358.7	12.0	12.0	9536.9	20.1	1.26245462	6.26 0.157807
9	9757.66	81.37	358.66	75.34721	9551.6	405.9	405.8	-9.5	405.9	358.7	12.0	12.0	9554.6	2.4	1.42026145	6.26 0.157807
10	9833.01	90.42	358.66	75.34721	9557.0	480.9	480.8	-11.2	480.9	358.7	12.0	12.0	9560.5	-3.5	1.57806828	6.26 0.157807
11	9900.00	90.42	358.66	66.99273	9556.5	547.9	547.8	-12.8	547.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
12	10000.00	90.42	358.66	100	9555.8	647.9	647.7	-15.1	647.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
13	10100.00	90.42	358.66	100	9555.0	747.9	747.7	-17.4	747.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
14	10200.00	90.42	358.66	100	9554.3	847.9	847.7	-19.8	847.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
15	10300.00	90.42	358.66	100	9553.6	947.9	947.7	-22.1	947.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
16	10400.00	90.42	358.66	100	9552.9	1047.9	1047.6	-24.4	1047.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
17	10500.00	90.42	358.66	100	9552.1	1147.9	1147.6	-26.8	1147.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
18	10600.00	90.42	358.66	100	9551.4	1247.9	1247.6	-29.1	1247.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
19	10700.00	90.42	358.66	100	9550.7	1347.9	1347.5	-31.4	1347.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
20	10800.00	90.42	358.66	100	9550.0	1447.9	1447.5	-33.8	1447.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
21	10900.00	90.42	358.66	100	9549.2	1547.9	1547.5	-36.1	1547.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
22	11000.00	90.42	358.66	100	9548.5	1647.9	1647.5	-38.4	1647.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
23	11100.00	90.42	358.66	100	9547.8	1747.9	1747.4	-40.7	1747.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
24	11200.00	90.42	358.66	100	9547.0	1847.9	1847.4	-43.1	1847.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
25	11300.00	90.42	358.66	100	9546.3	1947.9	1947.4	-45.4	1947.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
26	11400.00	90.42	358.66	100	9545.6	2047.9	2047.3	-47.7	2047.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
27	11500.00	90.42	358.66	100	9544.9	2147.9	2147.3	-50.1	2147.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
28	11600.00	90.42	358.66	100	9544.1	2247.9	2247.3	-52.4	2247.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
29	11700.00	90.42	358.66	100	9543.4	2347.9	2347.2	-54.7	2347.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
30	11800.00	90.42	358.66	100	9542.7	2447.9	2447.2	-57.1	2447.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
31	11900.00	90.42	358.66	100	9542.0	2547.9	2547.2	-59.4	2547.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
32	12000.00	90.42	358.66	100	9541.2	2647.9	2647.2	-61.7	2647.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
33	12100.00	90.42	358.66	100	9540.5	2747.9	2747.1	-64.1	2747.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
34	12200.00	90.42	358.66	100	9539.8	2847.9	2847.1	-66.4	2847.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
35	12300.00	90.42	358.66	100	9539.0	2947.9	2947.1	-68.7	2947.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
36	12400.00	90.42	358.66	100	9538.3	3047.9	3047.0	-71.1	3047.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
37	12500.00	90.42	358.66	100	9537.6	3147.9	3147.0	-73.4	3147.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
38	12600.00	90.42	358.66	100	9536.9	3247.9	3247.0	-75.7	3247.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
39	12700.00	90.42	358.66	100	9536.1	3347.9	3346.9	-78.0	3347.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
40	12800.00	90.42	358.66	100	9535.4	3447.9	3446.9	-80.4	3447.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
41	12900.00	90.42	358.66	100	9534.7	3547.8	3546.9	-82.7	3547.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
42	13000.00	90.42	358.66	100	9534.0	3647.8	3646.9	-85.0	3647.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
43	13100.00	90.42	358.66	100	9533.2	3747.8	3746.8	-87.4	3747.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
44	13200.00	90.42	358.66	100	9532.5	3847.8	3846.8	-89.7	3847.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
45	13300.00	90.42	358.66	100	9531.8	3947.8	3946.8	-92.0	3947.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
46	13400.00	90.42	358.66	100	9531.0	4047.8	4046.7	-94.4	4047.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
47	13500.00	90.42	358.66	100	9530.3	4147.8	4146.7	-96.7	4147.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
48	13600.00	90.42	358.66	100	9529.6	4247.8	4246.7	-99.0	4247.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
49	13700.00	90.42	358.66	100	9528.9	4347.8	4346.6	-101.4	4347.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
50	13800.00	90.42	358.66	100	9528.1	4447.8	4446.6	-103.7	4447.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
51	13900.00	90.42	358.66	100	9527.4	4547.8	4546.6	-106.0	4547.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
52	14000.00	90.42	358.66	100	9526.7	4647.8	4646.6	-108.4	4647.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
53	14100.00	90.42	358.66	100	9526.0	4747.8	4746.5	-110.7	4747.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
54	14200.00	90.42	358.66	100	9525.2	4847.8	4846.5	-113.0	4847.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
55	14300.00	90.42	358.66	100	9524.5	4947.8	4946.5	-115.3	4947.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10
56	14400.00	90.42	358.66	100	9523.8	5047.8	5046.4	-117.7	5047.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26 1E-10

Ex-10

57	14500.00	90.42	358.66	100	9523.0	5147.8	5146.4	-120.0	5147.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
58	14600.00	90.42	358.66	100	9522.3	5247.8	5246.4	-122.3	5247.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
59	14700.00	90.42	358.66	100	9521.6	5347.8	5346.3	-124.7	5347.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
60	14800.00	90.42	358.66	100	9520.9	5447.8	5446.3	-127.0	5447.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
61	14900.00	90.42	358.66	100	9520.1	5547.8	5546.3	-129.3	5547.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
62	15000.00	90.42	358.66	100	9519.4	5647.8	5646.3	-131.7	5647.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
63	15100.00	90.42	358.66	100	9518.7	5747.8	5746.2	-134.0	5747.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
64	15200.00	90.42	358.66	100	9518.0	5847.8	5846.2	-136.3	5847.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
65	15300.00	90.42	358.66	100	9517.2	5947.8	5946.2	-138.7	5947.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
66	15400.00	90.42	358.66	100	9516.5	6047.8	6046.1	-141.0	6047.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
67	15500.00	90.42	358.66	100	9515.8	6147.8	6146.1	-143.3	6147.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
68	15600.00	90.42	358.66	100	9515.1	6247.8	6246.1	-145.7	6247.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
69	15700.00	90.42	358.66	100	9514.3	6347.8	6346.0	-148.0	6347.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
70	15800.00	90.42	358.66	100	9513.6	6447.8	6446.0	-150.3	6447.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
71	15900.00	90.42	358.66	100	9512.9	6547.8	6546.0	-152.6	6547.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
72	16000.00	90.42	358.66	100	9512.1	6647.8	6646.0	-155.0	6647.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
73	16100.00	90.42	358.66	100	9511.4	6747.8	6745.9	-157.3	6747.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
74	16200.00	90.42	358.66	100	9510.7	6847.8	6845.9	-159.6	6847.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
75	16300.00	90.42	358.66	100	9510.0	6947.8	6945.9	-162.0	6947.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
76	16400.00	90.42	358.66	100	9509.2	7047.8	7045.8	-164.3	7047.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
77	16500.00	90.42	358.66	100	9508.5	7147.8	7145.8	-166.6	7147.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
78	16600.00	90.42	358.66	100	9507.8	7247.8	7245.8	-169.0	7247.8	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
79	16700.00	90.42	358.66	100	9507.1	7347.7	7345.8	-171.3	7347.7	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
80	16800.00	90.42	358.66	100	9506.3	7447.7	7445.7	-173.6	7447.7	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
81	16900.00	90.42	358.66	100	9505.6	7547.7	7545.7	-176.0	7547.7	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10
82	16980.17	90.42	358.66	80.17348	9505.0	7627.9	7625.8	-177.8	7627.9	358.7	0.0	0.0	9560.5	-3.5	1.57806828	6.26	1E-10

Mewbourne Oil Company

SURVEY CALCULATION REPORT Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Creedence 21/16 W2HA State Com 4H
KOP 10037.04
SL: 2630 FNL & 605 FEL Sec 21-24S-28E
BHL: 330 FNL & 330 FEL Sec 16-24S-28E

Target KBTVD: 10,610 Feet 10610.00
Target Angle: 90.50 Degrees 90.50
Section Plane: 2.34 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	10037.04	0.00	2.34	N/A	10037.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	10037.0	573.0	1E-12	0.04 #VALUE!
1	10127.54	9.05	2.34	90.49538	10127.2	7.1	7.1	0.3	7.1	2.3	10.0	10.0	10127.2	482.8	0.15794424	0.04 0.157944
2	10218.03	18.10	2.34	90.49538	10215.0	28.3	28.3	1.2	28.3	2.3	10.0	10.0	10215.3	394.7	0.31588847	0.04 0.157944
3	10308.53	27.15	2.34	90.49538	10298.5	63.1	63.1	2.6	63.1	2.3	10.0	10.0	10299.0	311.0	0.47383271	0.04 0.157944
4	10399.02	36.20	2.34	90.49538	10375.4	110.6	110.5	4.5	110.6	2.3	10.0	10.0	10376.4	233.6	0.63177694	0.04 0.157944
5	10489.52	45.25	2.34	90.49538	10443.9	169.6	169.4	6.9	169.6	2.3	10.0	10.0	10445.4	164.6	0.78972118	0.04 0.157944
6	10580.01	54.30	2.34	90.49538	10502.3	238.6	238.4	9.8	238.6	2.3	10.0	10.0	10504.4	105.6	0.94766541	0.04 0.157944
7	10670.51	63.35	2.34	90.49538	10549.1	315.9	315.7	12.9	315.9	2.3	10.0	10.0	10551.8	58.2	1.10560965	0.04 0.157944
8	10761.01	72.40	2.34	90.49538	10583.2	399.7	399.3	16.4	399.7	2.3	10.0	10.0	10586.6	23.4	1.26355388	0.04 0.157944
9	10851.50	81.45	2.34	90.49538	10603.6	487.7	487.3	20.0	487.7	2.3	10.0	10.0	10607.8	2.2	1.42149812	0.04 0.157944
10	10942.00	90.50	2.34	90.49538	10610.0	577.9	577.4	23.6	577.9	2.3	10.0	10.0	10615.0	-5.0	1.57944235	0.04 0.157944
11	11000.00	90.50	2.34	58.00399	10609.5	635.9	635.4	26.0	635.9	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
12	11100.00	90.50	2.34	100	10608.6	735.9	735.3	30.1	735.9	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
13	11200.00	90.50	2.34	100	10607.7	835.9	835.2	34.2	835.9	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
14	11300.00	90.50	2.34	100	10606.9	935.9	935.1	38.3	935.9	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
15	11400.00	90.50	2.34	100	10606.0	1035.9	1035.0	42.4	1035.9	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
16	11500.00	90.50	2.34	100	10605.2	1135.9	1134.9	46.5	1135.9	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
17	11600.00	90.50	2.34	100	10604.3	1235.9	1234.9	50.6	1235.9	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
18	11700.00	90.50	2.34	100	10603.4	1335.9	1334.8	54.6	1335.9	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
19	11800.00	90.50	2.34	100	10602.6	1435.9	1434.7	58.7	1435.9	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
20	11900.00	90.50	2.34	100	10601.7	1535.9	1534.6	62.8	1535.9	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
21	12000.00	90.50	2.34	100	10600.8	1635.9	1634.5	66.9	1635.9	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
22	12100.00	90.50	2.34	100	10600.0	1735.9	1734.4	71.0	1735.9	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
23	12200.00	90.50	2.34	100	10599.1	1835.9	1834.3	75.1	1835.9	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
24	12300.00	90.50	2.34	100	10598.2	1935.9	1934.2	79.2	1935.9	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
25	12400.00	90.50	2.34	100	10597.4	2035.9	2034.2	83.3	2035.9	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
26	12500.00	90.50	2.34	100	10596.5	2135.9	2134.1	87.4	2135.9	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
27	12600.00	90.50	2.34	100	10595.6	2235.9	2234.0	91.5	2235.9	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
28	12700.00	90.50	2.34	100	10594.8	2335.8	2333.9	95.6	2335.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
29	12800.00	90.50	2.34	100	10593.9	2435.8	2433.8	99.6	2435.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
30	12900.00	90.50	2.34	100	10593.0	2535.8	2533.7	103.7	2535.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
31	13000.00	90.50	2.34	100	10592.2	2635.8	2633.6	107.8	2635.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
32	13100.00	90.50	2.34	100	10591.3	2735.8	2733.5	111.9	2735.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
33	13200.00	90.50	2.34	100	10590.5	2835.8	2833.5	116.0	2835.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
34	13300.00	90.50	2.34	100	10589.6	2935.8	2933.4	120.1	2935.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
35	13400.00	90.50	2.34	100	10588.7	3035.8	3033.3	124.2	3035.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
36	13500.00	90.50	2.34	100	10587.9	3135.8	3133.2	128.3	3135.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
37	13600.00	90.50	2.34	100	10587.0	3235.8	3233.1	132.4	3235.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
38	13700.00	90.50	2.34	100	10586.1	3335.8	3333.0	136.5	3335.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
39	13800.00	90.50	2.34	100	10585.3	3435.8	3432.9	140.6	3435.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
40	13900.00	90.50	2.34	100	10584.4	3535.8	3532.8	144.6	3535.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
41	14000.00	90.50	2.34	100	10583.5	3635.8	3632.8	148.7	3635.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
42	14100.00	90.50	2.34	100	10582.7	3735.8	3732.7	152.8	3735.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
43	14200.00	90.50	2.34	100	10581.8	3835.8	3832.6	156.9	3835.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
44	14300.00	90.50	2.34	100	10580.9	3935.8	3932.5	161.0	3935.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
45	14400.00	90.50	2.34	100	10580.1	4035.8	4032.4	165.1	4035.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
46	14500.00	90.50	2.34	100	10579.2	4135.8	4132.3	169.2	4135.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
47	14600.00	90.50	2.34	100	10578.4	4235.8	4232.2	173.3	4235.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
48	14700.00	90.50	2.34	100	10577.5	4335.8	4332.1	177.4	4335.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
49	14800.00	90.50	2.34	100	10576.6	4435.8	4432.1	181.5	4435.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
50	14900.00	90.50	2.34	100	10575.8	4535.8	4532.0	185.6	4535.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
51	15000.00	90.50	2.34	100	10574.9	4635.8	4631.9	189.6	4635.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
52	15100.00	90.50	2.34	100	10574.0	4735.8	4731.8	193.7	4735.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
53	15200.00	90.50	2.34	100	10573.2	4835.8	4831.7	197.8	4835.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
54	15300.00	90.50	2.34	100	10572.3	4935.8	4931.6	201.9	4935.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
55	15400.00	90.50	2.34	100	10571.4	5035.7	5031.5	206.0	5035.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10
56	15500.00	90.50	2.34	100	10570.6	5135.7	5131.4	210.1	5135.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04 1E-10

57	15600.00	90.50	2.34	100	10569.7	5235.7	5231.4	214.2	5235.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
58	15700.00	90.50	2.34	100	10568.8	5335.7	5331.3	218.3	5335.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
59	15800.00	90.50	2.34	100	10568.0	5435.7	5431.2	222.4	5435.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
60	15900.00	90.50	2.34	100	10567.1	5535.7	5531.1	226.5	5535.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
61	16000.00	90.50	2.34	100	10566.2	5635.7	5631.0	230.5	5635.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
62	16100.00	90.50	2.34	100	10565.4	5735.7	5730.9	234.6	5735.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
63	16200.00	90.50	2.34	100	10564.5	5835.7	5830.8	238.7	5835.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
64	16300.00	90.50	2.34	100	10563.7	5935.7	5930.7	242.8	5935.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
65	16400.00	90.50	2.34	100	10562.8	6035.7	6030.7	246.9	6035.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
66	16500.00	90.50	2.34	100	10561.9	6135.7	6130.6	251.0	6135.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
67	16600.00	90.50	2.34	100	10561.1	6235.7	6230.5	255.1	6235.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
68	16700.00	90.50	2.34	100	10560.2	6335.7	6330.4	259.2	6335.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
69	16800.00	90.50	2.34	100	10559.3	6435.7	6430.3	263.3	6435.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
70	16900.00	90.50	2.34	100	10558.5	6535.7	6530.2	267.4	6535.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
71	17000.00	90.50	2.34	100	10557.6	6635.7	6630.1	271.5	6635.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
72	17100.00	90.50	2.34	100	10556.7	6735.7	6730.0	275.5	6735.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
73	17200.00	90.50	2.34	100	10555.9	6835.7	6830.0	279.6	6835.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
74	17300.00	90.50	2.34	100	10555.0	6935.7	6929.9	283.7	6935.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
75	17400.00	90.50	2.34	100	10554.1	7035.7	7029.8	287.8	7035.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
76	17500.00	90.50	2.34	100	10553.3	7135.7	7129.7	291.9	7135.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
77	17600.00	90.50	2.34	100	10552.4	7235.7	7229.6	296.0	7235.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
78	17700.00	90.50	2.34	100	10551.5	7335.7	7329.5	300.1	7335.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
79	17800.00	90.50	2.34	100	10550.7	7435.7	7429.4	304.2	7435.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
80	17900.00	90.50	2.34	100	10549.8	7535.7	7529.3	308.3	7535.7	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
81	17992.13	90.50	2.34	92.12985	10549.0	7627.8	7621.4	312.0	7627.8	2.3	0.0	0.0	10615.0	-5.0	1.57944235	0.04	1E-10
82	17992.13	90.50	2.34	0	10549.0	7627.8	7621.4	312.0	7627.8	2.3	#####	#DIV/0!	10615.0	-5.0	1.57944235	0.04	1E-10
83	17992.13	90.50	2.34	0	10549.0	7627.8	7621.4	312.0	7627.8	2.3	#####	#DIV/0!	10615.0	-5.0	1.57944235	0.04	1E-10

Mewbourne Oil Company

SURVEY CALCULATION REPORT Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Creedence 21/16 W2HA State Com 5H
KOP 10034.04
SL: 2630 FNL & 735 FEL Sec 21-24S-28E
BHL: 330 FNL & 990 FEL Sec 16-24S-28E

Target KBTVD: 10,607 Feet 10607.00
Target Angle: 90.52 Degrees 90.52
Section Plane: 358.36 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)	#VALUE!
T/I	10034.04	0.00	358.36	N/A	10034.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	10034.0	573.0	1E-12	6.25	0.157987
1	10124.56	9.05	358.36	90.52	10124.2	7.1	7.1	-0.2	7.1	358.4	10.0	10.0	10124.3	482.7	0.1579873	6.25	0.157987
2	10215.08	18.10	358.36	90.52	10212.1	28.4	28.4	-0.8	28.4	358.4	10.0	10.0	10212.3	394.7	0.3159746	6.25	0.157987
3	10305.60	27.16	358.36	90.52	10295.5	63.2	63.1	-1.8	63.2	358.4	10.0	10.0	10296.1	310.9	0.4739619	6.25	0.157987
4	10396.12	36.21	358.36	90.52	10372.5	110.7	110.6	-3.2	110.7	358.4	10.0	10.0	10373.5	233.5	0.6319493	6.25	0.157987
5	10486.64	45.26	358.36	90.52	10441.0	169.7	169.6	-4.8	169.7	358.4	10.0	10.0	10442.6	164.4	0.7899366	6.25	0.157987
6	10577.16	54.31	358.36	90.52	10499.4	238.7	238.6	-6.8	238.7	358.4	10.0	10.0	10501.6	105.4	0.9479239	6.25	0.157987
7	10667.68	63.36	358.36	90.52	10546.2	316.1	316.0	-9.0	316.1	358.4	10.0	10.0	10549.1	57.9	1.1059112	6.25	0.157987
8	10758.20	72.42	358.36	90.52	10580.2	399.9	399.7	-11.4	399.9	358.4	10.0	10.0	10583.9	23.1	1.2638985	6.25	0.157987
9	10848.72	81.47	358.36	90.52	10600.7	488.0	487.8	-13.9	488.0	358.4	10.0	10.0	10605.1	1.9	1.4218858	6.25	0.157987
10	10939.24	90.52	358.36	90.52	10607.0	578.2	577.9	-16.5	578.2	358.4	10.0	10.0	10612.2	-5.2	1.5798732	6.25	0.157987
11	11000.00	90.52	358.36	60.757	10606.4	638.9	638.7	-18.2	638.9	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
12	11100.00	90.52	358.36	100	10605.5	738.9	738.6	-21.1	738.9	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
13	11200.00	90.52	358.36	100	10604.6	838.9	838.6	-24.0	838.9	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
14	11300.00	90.52	358.36	100	10603.7	938.9	938.5	-26.8	938.9	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
15	11400.00	90.52	358.36	100	10602.8	1038.9	1038.5	-29.7	1038.9	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
16	11500.00	90.52	358.36	100	10601.9	1138.9	1138.4	-32.5	1138.9	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
17	11600.00	90.52	358.36	100	10601.0	1238.9	1238.4	-35.4	1238.9	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
18	11700.00	90.52	358.36	100	10600.1	1338.9	1338.3	-38.2	1338.9	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
19	11800.00	90.52	358.36	100	10599.2	1438.9	1438.3	-41.1	1438.9	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
20	11900.00	90.52	358.36	100	10598.3	1538.9	1538.2	-43.9	1538.9	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
21	12000.00	90.52	358.36	100	10597.3	1638.9	1638.2	-46.8	1638.9	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
22	12100.00	90.52	358.36	100	10596.4	1738.9	1738.2	-49.7	1738.9	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
23	12200.00	90.52	358.36	100	10595.5	1838.9	1838.1	-52.5	1838.9	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
24	12300.00	90.52	358.36	100	10594.6	1938.9	1938.1	-55.4	1938.9	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
25	12400.00	90.52	358.36	100	10593.7	2038.9	2038.0	-58.2	2038.9	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
26	12500.00	90.52	358.36	100	10592.8	2138.9	2138.0	-61.1	2138.9	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
27	12600.00	90.52	358.36	100	10591.9	2238.8	2237.9	-63.9	2238.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
28	12700.00	90.52	358.36	100	10591.0	2338.8	2337.9	-66.8	2338.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
29	12800.00	90.52	358.36	100	10590.1	2438.8	2437.8	-69.6	2438.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
30	12900.00	90.52	358.36	100	10589.2	2538.8	2537.8	-72.5	2538.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
31	13000.00	90.52	358.36	100	10588.3	2638.8	2637.8	-75.4	2638.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
32	13100.00	90.52	358.36	100	10587.4	2738.8	2737.7	-78.2	2738.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
33	13200.00	90.52	358.36	100	10586.5	2838.8	2837.7	-81.1	2838.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
34	13300.00	90.52	358.36	100	10585.5	2938.8	2937.6	-83.9	2938.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
35	13400.00	90.52	358.36	100	10584.6	3038.8	3037.6	-86.8	3038.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
36	13500.00	90.52	358.36	100	10583.7	3138.8	3137.5	-89.6	3138.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
37	13600.00	90.52	358.36	100	10582.8	3238.8	3237.5	-92.5	3238.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
38	13700.00	90.52	358.36	100	10581.9	3338.8	3337.4	-95.4	3338.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
39	13800.00	90.52	358.36	100	10581.0	3438.8	3437.4	-98.2	3438.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
40	13900.00	90.52	358.36	100	10580.1	3538.8	3537.4	-101.1	3538.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
41	14000.00	90.52	358.36	100	10579.2	3638.8	3637.3	-103.9	3638.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
42	14100.00	90.52	358.36	100	10578.3	3738.8	3737.3	-106.8	3738.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
43	14200.00	90.52	358.36	100	10577.4	3838.8	3837.2	-109.6	3838.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
44	14300.00	90.52	358.36	100	10576.5	3938.8	3937.2	-112.5	3938.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
45	14400.00	90.52	358.36	100	10575.6	4038.8	4037.1	-115.3	4038.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
46	14500.00	90.52	358.36	100	10574.7	4138.8	4137.1	-118.2	4138.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
47	14600.00	90.52	358.36	100	10573.7	4238.8	4237.0	-121.1	4238.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
48	14700.00	90.52	358.36	100	10572.8	4338.8	4337.0	-123.9	4338.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
49	14800.00	90.52	358.36	100	10571.9	4438.8	4436.9	-126.8	4438.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
50	14900.00	90.52	358.36	100	10571.0	4538.8	4536.9	-129.6	4538.8	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
51	15000.00	90.52	358.36	100	10570.1	4638.7	4636.9	-132.5	4638.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
52	15100.00	90.52	358.36	100	10569.2	4738.7	4736.8	-135.3	4738.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
53	15200.00	90.52	358.36	100	10568.3	4838.7	4836.8	-138.2	4838.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
54	15300.00	90.52	358.36	100	10567.4	4938.7	4936.7	-141.0	4938.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
55	15400.00	90.52	358.36	100	10566.5	5038.7	5036.7	-143.9	5038.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
56	15500.00	90.52	358.36	100	10565.6	5138.7	5136.6	-146.8	5138.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10

57	15600.00	90.52	358.36	100	10564.7	5238.7	5236.6	-149.6	5238.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
58	15700.00	90.52	358.36	100	10563.8	5338.7	5336.5	-152.5	5338.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
59	15800.00	90.52	358.36	100	10562.9	5438.7	5436.5	-155.3	5438.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
60	15900.00	90.52	358.36	100	10561.9	5538.7	5536.5	-158.2	5538.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
61	16000.00	90.52	358.36	100	10561.0	5638.7	5636.4	-161.0	5638.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
62	16100.00	90.52	358.36	100	10560.1	5738.7	5736.4	-163.9	5738.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
63	16200.00	90.52	358.36	100	10559.2	5838.7	5836.3	-166.7	5838.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
64	16300.00	90.52	358.36	100	10558.3	5938.7	5936.3	-169.6	5938.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
65	16400.00	90.52	358.36	100	10557.4	6038.7	6036.2	-172.5	6038.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
66	16500.00	90.52	358.36	100	10556.5	6138.7	6136.2	-175.3	6138.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
67	16600.00	90.52	358.36	100	10555.6	6238.7	6236.1	-178.2	6238.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
68	16700.00	90.52	358.36	100	10554.7	6338.7	6336.1	-181.0	6338.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
69	16800.00	90.52	358.36	100	10553.8	6438.7	6436.0	-183.9	6438.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
70	16900.00	90.52	358.36	100	10552.9	6538.7	6536.0	-186.7	6538.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
71	17000.00	90.52	358.36	100	10552.0	6638.7	6636.0	-189.6	6638.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
72	17100.00	90.52	358.36	100	10551.1	6738.7	6735.9	-192.4	6738.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
73	17200.00	90.52	358.36	100	10550.1	6838.7	6835.9	-195.3	6838.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
74	17300.00	90.52	358.36	100	10549.2	6938.7	6935.8	-198.2	6938.7	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
75	17400.00	90.52	358.36	100	10548.3	7038.6	7035.8	-201.0	7038.6	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
76	17500.00	90.52	358.36	100	10547.4	7138.6	7135.7	-203.9	7138.6	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
77	17600.00	90.52	358.36	100	10546.5	7238.6	7235.7	-206.7	7238.6	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
78	17700.00	90.52	358.36	100	10545.6	7338.6	7335.6	-209.6	7338.6	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
79	17800.00	90.52	358.36	100	10544.7	7438.6	7435.6	-212.4	7438.6	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
80	17900.00	90.52	358.36	100	10543.8	7538.6	7535.6	-215.3	7538.6	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
81	17984.76	90.52	358.36	84.764	10543.0	7623.4	7620.3	-217.7	7623.4	358.4	0.0	0.0	10612.2	-5.2	1.5798732	6.25	1E-10
82	17984.76	90.52	358.36	0	10543.0	7623.4	7620.3	-217.7	7623.4	358.4	#####	#####	10612.2	-5.2	1.5798732	6.25	1E-10
83	17984.76	90.52	358.36	0	10543.0	7623.4	7620.3	-217.7	7623.4	358.4	#####	#####	10612.2	-5.2	1.5798732	6.25	1E-10

Mewbourne Oil Company

SURVEY CALCULATION REPORT Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Creedence 21/16 W2GB State Com 6H
KOP 10046.04
SL: 2630 FNL & 1925 FEL Sec 21-24S-28E
BHL: 330 FNL & 1650 FEL Sec 16-24S-28E

Target KBTVD: 10,619 Feet 10619.00
Target Angle: 90.45 Degrees 90.45
Section Plane: 2.34 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	10046.04	0.00	2.34	N/A	10046.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	10046.0	573.0	1E-12	0.04 #VALUE!
1	10136.49	9.04	2.34	90.446	10136.1	7.1	7.1	0.3	7.1	2.3	10.0	10.0	10136.2	482.8	0.1578586	0.04 0.1578586
2	10226.93	18.09	2.34	90.446	10223.9	28.3	28.3	1.2	28.3	2.3	10.0	10.0	10224.2	394.8	0.3157171	0.04 0.1578586
3	10317.38	27.13	2.34	90.446	10307.4	63.1	63.0	2.6	63.1	2.3	10.0	10.0	10307.8	311.2	0.4735757	0.04 0.1578586
4	10407.83	36.18	2.34	90.446	10384.3	110.5	110.4	4.5	110.5	2.3	10.0	10.0	10385.1	233.9	0.6314342	0.04 0.1578586
5	10498.27	45.22	2.34	90.446	10452.8	169.4	169.3	6.9	169.4	2.3	10.0	10.0	10454.1	164.9	0.7892928	0.04 0.1578586
6	10588.72	54.27	2.34	90.446	10511.1	238.4	238.2	9.7	238.4	2.3	10.0	10.0	10513.0	106.0	0.9471513	0.04 0.1578586
7	10679.17	63.31	2.34	90.446	10558.0	315.6	315.4	12.9	315.6	2.3	10.0	10.0	10560.4	58.6	1.1050099	0.04 0.1578586
8	10769.61	72.36	2.34	90.446	10592.1	399.3	399.0	16.3	399.3	2.3	10.0	10.0	10595.2	23.8	1.2628684	0.04 0.1578586
9	10860.06	81.40	2.34	90.446	10612.6	487.3	486.9	19.9	487.3	2.3	10.0	10.0	10616.4	2.6	1.420727	0.04 0.1578586
10	10950.51	90.45	2.34	90.446	10619.0	577.4	576.9	23.6	577.4	2.3	10.0	10.0	10623.5	-4.5	1.5785855	0.04 0.1578586
11	11000.00	90.45	2.34	49.495	10618.6	626.9	626.4	25.6	626.9	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
12	11100.00	90.45	2.34	100	10617.8	726.9	726.3	29.7	726.9	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
13	11200.00	90.45	2.34	100	10617.0	826.9	826.2	33.8	826.9	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
14	11300.00	90.45	2.34	100	10616.3	926.9	926.1	37.9	926.9	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
15	11400.00	90.45	2.34	100	10615.5	1026.9	1026.0	42.0	1026.9	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
16	11500.00	90.45	2.34	100	10614.7	1126.9	1126.0	46.1	1126.9	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
17	11600.00	90.45	2.34	100	10613.9	1226.9	1225.9	50.2	1226.9	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
18	11700.00	90.45	2.34	100	10613.1	1326.9	1325.8	54.2	1326.9	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
19	11800.00	90.45	2.34	100	10612.4	1426.9	1425.7	58.3	1426.9	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
20	11900.00	90.45	2.34	100	10611.6	1526.9	1525.6	62.4	1526.9	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
21	12000.00	90.45	2.34	100	10610.8	1626.9	1625.5	66.5	1626.9	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
22	12100.00	90.45	2.34	100	10610.0	1726.9	1725.4	70.6	1726.9	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
23	12200.00	90.45	2.34	100	10609.3	1826.9	1825.4	74.7	1826.9	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
24	12300.00	90.45	2.34	100	10608.5	1926.9	1925.3	78.8	1926.9	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
25	12400.00	90.45	2.34	100	10607.7	2026.9	2025.2	82.9	2026.9	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
26	12500.00	90.45	2.34	100	10606.9	2126.9	2125.1	86.9	2126.9	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
27	12600.00	90.45	2.34	100	10606.1	2226.9	2225.0	91.0	2226.9	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
28	12700.00	90.45	2.34	100	10605.4	2326.9	2324.9	95.1	2326.9	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
29	12800.00	90.45	2.34	100	10604.6	2426.9	2424.8	99.2	2426.9	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
30	12900.00	90.45	2.34	100	10603.8	2526.9	2524.7	103.3	2526.9	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
31	13000.00	90.45	2.34	100	10603.0	2626.9	2624.7	107.4	2626.9	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
32	13100.00	90.45	2.34	100	10602.2	2726.9	2724.6	111.5	2726.9	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
33	13200.00	90.45	2.34	100	10601.5	2826.8	2824.5	115.6	2826.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
34	13300.00	90.45	2.34	100	10600.7	2926.8	2924.4	119.6	2926.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
35	13400.00	90.45	2.34	100	10599.9	3026.8	3024.3	123.7	3026.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
36	13500.00	90.45	2.34	100	10599.1	3126.8	3124.2	127.8	3126.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
37	13600.00	90.45	2.34	100	10598.3	3226.8	3224.1	131.9	3226.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
38	13700.00	90.45	2.34	100	10597.6	3326.8	3324.1	136.0	3326.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
39	13800.00	90.45	2.34	100	10596.8	3426.8	3424.0	140.1	3426.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
40	13900.00	90.45	2.34	100	10596.0	3526.8	3523.9	144.2	3526.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
41	14000.00	90.45	2.34	100	10595.2	3626.8	3623.8	148.3	3626.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
42	14100.00	90.45	2.34	100	10594.5	3726.8	3723.7	152.3	3726.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
43	14200.00	90.45	2.34	100	10593.7	3826.8	3823.6	156.4	3826.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
44	14300.00	90.45	2.34	100	10592.9	3926.8	3923.5	160.5	3926.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
45	14400.00	90.45	2.34	100	10592.1	4026.8	4023.4	164.6	4026.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
46	14500.00	90.45	2.34	100	10591.3	4126.8	4123.4	168.7	4126.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
47	14600.00	90.45	2.34	100	10590.6	4226.8	4223.3	172.8	4226.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
48	14700.00	90.45	2.34	100	10589.8	4326.8	4323.2	176.9	4326.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
49	14800.00	90.45	2.34	100	10589.0	4426.8	4423.1	181.0	4426.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
50	14900.00	90.45	2.34	100	10588.2	4526.8	4523.0	185.0	4526.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
51	15000.00	90.45	2.34	100	10587.4	4626.8	4622.9	189.1	4626.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
52	15100.00	90.45	2.34	100	10586.7	4726.8	4722.8	193.2	4726.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
53	15200.00	90.45	2.34	100	10585.9	4826.8	4822.8	197.3	4826.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
54	15300.00	90.45	2.34	100	10585.1	4926.8	4922.7	201.4	4926.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
55	15400.00	90.45	2.34	100	10584.3	5026.8	5022.6	205.5	5026.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10
56	15500.00	90.45	2.34	100	10583.5	5126.8	5122.5	209.6	5126.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04 1E-10

57	15600.00	90.45	2.34	100	10582.8	5226.8	5222.4	213.7	5226.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
58	15700.00	90.45	2.34	100	10582.0	5326.8	5322.3	217.7	5326.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
59	15800.00	90.45	2.34	100	10581.2	5426.8	5422.2	221.8	5426.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
60	15900.00	90.45	2.34	100	10580.4	5526.8	5522.1	225.9	5526.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
61	16000.00	90.45	2.34	100	10579.7	5626.8	5622.1	230.0	5626.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
62	16100.00	90.45	2.34	100	10578.9	5726.8	5722.0	234.1	5726.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
63	16200.00	90.45	2.34	100	10578.1	5826.8	5821.9	238.2	5826.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
64	16300.00	90.45	2.34	100	10577.3	5926.8	5921.8	242.3	5926.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
65	16400.00	90.45	2.34	100	10576.5	6026.8	6021.7	246.4	6026.8	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
66	16500.00	90.45	2.34	100	10575.8	6126.7	6121.6	250.4	6126.7	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
67	16600.00	90.45	2.34	100	10575.0	6226.7	6221.5	254.5	6226.7	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
68	16700.00	90.45	2.34	100	10574.2	6326.7	6321.5	258.6	6326.7	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
69	16800.00	90.45	2.34	100	10573.4	6426.7	6421.4	262.7	6426.7	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
70	16900.00	90.45	2.34	100	10572.6	6526.7	6521.3	266.8	6526.7	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
71	17000.00	90.45	2.34	100	10571.9	6626.7	6621.2	270.9	6626.7	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
72	17100.00	90.45	2.34	100	10571.1	6726.7	6721.1	275.0	6726.7	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
73	17200.00	90.45	2.34	100	10570.3	6826.7	6821.0	279.1	6826.7	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
74	17300.00	90.45	2.34	100	10569.5	6926.7	6920.9	283.1	6926.7	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
75	17400.00	90.45	2.34	100	10568.7	7026.7	7020.8	287.2	7026.7	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
76	17500.00	90.45	2.34	100	10568.0	7126.7	7120.8	291.3	7126.7	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
77	17600.00	90.45	2.34	100	10567.2	7226.7	7220.7	295.4	7226.7	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
78	17700.00	90.45	2.34	100	10566.4	7326.7	7320.6	299.5	7326.7	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
79	17800.00	90.45	2.34	100	10565.6	7426.7	7420.5	303.6	7426.7	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
80	17900.00	90.45	2.34	100	10564.9	7526.7	7520.4	307.7	7526.7	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
81	18000.00	90.45	2.34	100	10564.1	7626.7	7620.3	311.8	7626.7	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
82	18006.94	90.45	2.34	6.945	10564.0	7633.6	7627.3	312.0	7633.6	2.3	0.0	0.0	10623.5	-4.5	1.5785855	0.04	1E-10
83	18006.94	90.45	2.34	0	10564.0	7633.6	7627.3	312.0	7633.6	2.3	#DIV/0!	#DIV/0!	10623.5	-4.5	1.5785855	0.04	1E-10

Mewbourne Oil Company

SURVEY CALCULATION REPORT Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Creedence 21/16 W2GB State Com 7H
KOP 10034.04
SL: 2630 FNL & 1955 FEL Sec 21-24S-28E
BHL: 330 FNL & 2310 FEL Sec 16-24S-28E

Target KBTVD: 10,607 Feet 10607.00
Target Angle: 90.50 Degrees 90.50
Section Plane: 357.61 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	10034.04	0.00	357.61	N/A	10034.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	10034.0	573.0	1E-12	6.24 #VALUE!
1	10124.54	9.05	357.61	90.495	10124.2	7.1	7.1	-0.3	7.1	357.6	10.0	10.0	10124.2	482.8	0.1579438	6.24 0.157944
2	10215.03	18.10	357.61	90.495	10212.0	28.3	28.3	-1.2	28.3	357.6	10.0	10.0	10212.3	394.7	0.3158875	6.24 0.157944
3	10305.53	27.15	357.61	90.495	10295.5	63.1	63.1	-2.6	63.1	357.6	10.0	10.0	10296.0	311.0	0.4738313	6.24 0.157944
4	10396.02	36.20	357.61	90.495	10372.4	110.6	110.5	-4.6	110.6	357.6	10.0	10.0	10373.4	233.6	0.631775	6.24 0.157944
5	10486.52	45.25	357.61	90.495	10440.9	169.6	169.4	-7.1	169.6	357.6	10.0	10.0	10442.4	164.6	0.7897188	6.24 0.157944
6	10577.01	54.30	357.61	90.495	10499.3	238.6	238.4	-9.9	238.6	357.6	10.0	10.0	10501.4	105.6	0.9476626	6.24 0.157944
7	10667.51	63.35	357.61	90.495	10546.1	315.9	315.7	-13.2	315.9	357.6	10.0	10.0	10548.8	58.2	1.1056063	6.24 0.157944
8	10758.00	72.40	357.61	90.495	10580.2	399.7	399.3	-16.6	399.7	357.6	10.0	10.0	10583.6	23.4	1.2635501	6.24 0.157944
9	10848.50	81.45	357.61	90.495	10600.6	487.7	487.3	-20.3	487.7	357.6	10.0	10.0	10604.8	2.2	1.4214938	6.24 0.157944
10	10938.99	90.50	357.61	90.495	10607.0	577.9	577.4	-24.1	577.9	357.6	10.0	10.0	10612.0	-5.0	1.5794376	6.24 0.157944
11	11000.00	90.50	357.61	61.007	10606.5	638.9	638.4	-26.6	638.9	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
12	11100.00	90.50	357.61	100	10605.6	738.9	738.3	-30.8	738.9	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
13	11200.00	90.50	357.61	100	10604.7	838.9	838.2	-34.9	838.9	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
14	11300.00	90.50	357.61	100	10603.9	938.9	938.1	-39.1	938.9	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
15	11400.00	90.50	357.61	100	10603.0	1038.9	1038.0	-43.3	1038.9	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
16	11500.00	90.50	357.61	100	10602.1	1138.9	1137.9	-47.4	1138.9	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
17	11600.00	90.50	357.61	100	10601.3	1238.9	1237.8	-51.6	1238.9	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
18	11700.00	90.50	357.61	100	10600.4	1338.9	1337.7	-55.8	1338.9	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
19	11800.00	90.50	357.61	100	10599.5	1438.9	1437.6	-59.9	1438.9	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
20	11900.00	90.50	357.61	100	10598.7	1538.9	1537.5	-64.1	1538.9	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
21	12000.00	90.50	357.61	100	10597.8	1638.9	1637.5	-68.3	1638.9	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
22	12100.00	90.50	357.61	100	10596.9	1738.9	1737.4	-72.4	1738.9	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
23	12200.00	90.50	357.61	100	10596.1	1838.9	1837.3	-76.6	1838.9	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
24	12300.00	90.50	357.61	100	10595.2	1938.9	1937.2	-80.8	1938.9	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
25	12400.00	90.50	357.61	100	10594.4	2038.9	2037.1	-84.9	2038.9	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
26	12500.00	90.50	357.61	100	10593.5	2138.9	2137.0	-89.1	2138.9	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
27	12600.00	90.50	357.61	100	10592.6	2238.9	2236.9	-93.3	2238.9	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
28	12700.00	90.50	357.61	100	10591.8	2338.8	2336.8	-97.4	2338.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
29	12800.00	90.50	357.61	100	10590.9	2438.8	2436.7	-101.6	2438.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
30	12900.00	90.50	357.61	100	10590.0	2538.8	2536.6	-105.8	2538.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
31	13000.00	90.50	357.61	100	10589.2	2638.8	2636.5	-109.9	2638.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
32	13100.00	90.50	357.61	100	10588.3	2738.8	2736.5	-114.1	2738.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
33	13200.00	90.50	357.61	100	10587.4	2838.8	2836.4	-118.3	2838.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
34	13300.00	90.50	357.61	100	10586.6	2938.8	2936.3	-122.4	2938.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
35	13400.00	90.50	357.61	100	10585.7	3038.8	3036.2	-126.6	3038.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
36	13500.00	90.50	357.61	100	10584.8	3138.8	3136.1	-130.8	3138.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
37	13600.00	90.50	357.61	100	10584.0	3238.8	3236.0	-134.9	3238.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
38	13700.00	90.50	357.61	100	10583.1	3338.8	3335.9	-139.1	3338.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
39	13800.00	90.50	357.61	100	10582.3	3438.8	3435.8	-143.3	3438.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
40	13900.00	90.50	357.61	100	10581.4	3538.8	3535.7	-147.4	3538.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
41	14000.00	90.50	357.61	100	10580.5	3638.8	3635.6	-151.6	3638.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
42	14100.00	90.50	357.61	100	10579.7	3738.8	3735.6	-155.8	3738.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
43	14200.00	90.50	357.61	100	10578.8	3838.8	3835.5	-159.9	3838.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
44	14300.00	90.50	357.61	100	10577.9	3938.8	3935.4	-164.1	3938.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
45	14400.00	90.50	357.61	100	10577.1	4038.8	4035.3	-168.2	4038.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
46	14500.00	90.50	357.61	100	10576.2	4138.8	4135.2	-172.4	4138.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
47	14600.00	90.50	357.61	100	10575.3	4238.8	4235.1	-176.6	4238.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
48	14700.00	90.50	357.61	100	10574.5	4338.8	4335.0	-180.7	4338.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
49	14800.00	90.50	357.61	100	10573.6	4438.8	4434.9	-184.9	4438.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
50	14900.00	90.50	357.61	100	10572.8	4538.8	4534.8	-189.1	4538.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
51	15000.00	90.50	357.61	100	10571.9	4638.8	4634.7	-193.2	4638.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
52	15100.00	90.50	357.61	100	10571.0	4738.8	4734.6	-197.4	4738.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
53	15200.00	90.50	357.61	100	10570.2	4838.8	4834.6	-201.6	4838.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
54	15300.00	90.50	357.61	100	10569.3	4938.8	4934.5	-205.7	4938.8	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
55	15400.00	90.50	357.61	100	10568.4	5038.7	5034.4	-209.9	5038.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10
56	15500.00	90.50	357.61	100	10567.6	5138.7	5134.3	-214.1	5138.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24 1E-10

57	15600.00	90.50	357.61	100	10566.7	5238.7	5234.2	-218.2	5238.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
58	15700.00	90.50	357.61	100	10565.8	5338.7	5334.1	-222.4	5338.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
59	15800.00	90.50	357.61	100	10565.0	5438.7	5434.0	-226.6	5438.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
60	15900.00	90.50	357.61	100	10564.1	5538.7	5533.9	-230.7	5538.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
61	16000.00	90.50	357.61	100	10563.2	5638.7	5633.8	-234.9	5638.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
62	16100.00	90.50	357.61	100	10562.4	5738.7	5733.7	-239.1	5738.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
63	16200.00	90.50	357.61	100	10561.5	5838.7	5833.7	-243.2	5838.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
64	16300.00	90.50	357.61	100	10560.7	5938.7	5933.6	-247.4	5938.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
65	16400.00	90.50	357.61	100	10559.8	6038.7	6033.5	-251.6	6038.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
66	16500.00	90.50	357.61	100	10558.9	6138.7	6133.4	-255.7	6138.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
67	16600.00	90.50	357.61	100	10558.1	6238.7	6233.3	-259.9	6238.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
68	16700.00	90.50	357.61	100	10557.2	6338.7	6333.2	-264.1	6338.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
69	16800.00	90.50	357.61	100	10556.3	6438.7	6433.1	-268.2	6438.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
70	16900.00	90.50	357.61	100	10555.5	6538.7	6533.0	-272.4	6538.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
71	17000.00	90.50	357.61	100	10554.6	6638.7	6632.9	-276.6	6638.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
72	17100.00	90.50	357.61	100	10553.7	6738.7	6732.8	-280.7	6738.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
73	17200.00	90.50	357.61	100	10552.9	6838.7	6832.7	-284.9	6838.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
74	17300.00	90.50	357.61	100	10552.0	6938.7	6932.7	-289.1	6938.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
75	17400.00	90.50	357.61	100	10551.1	7038.7	7032.6	-293.2	7038.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
76	17500.00	90.50	357.61	100	10550.3	7138.7	7132.5	-297.4	7138.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
77	17600.00	90.50	357.61	100	10549.4	7238.7	7232.4	-301.5	7238.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
78	17700.00	90.50	357.61	100	10548.6	7338.7	7332.3	-305.7	7338.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
79	17800.00	90.50	357.61	100	10547.7	7438.7	7432.2	-309.9	7438.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
80	17900.00	90.50	357.61	100	10546.8	7538.7	7532.1	-314.0	7538.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
81	17993.01	90.50	357.61	93.009	10546.0	7631.7	7625.0	-317.9	7631.7	357.6	0.0	0.0	10612.0	-5.0	1.5794376	6.24	1E-10
82	17993.01	90.50	357.61	0	10546.0	7631.7	7625.0	-317.9	7631.7	357.6	#####	#####	10612.0	-5.0	1.5794376	6.24	1E-10
83	17993.01	90.50	357.61	0	10546.0	7631.7	7625.0	-317.9	7631.7	357.6	#####	#####	10612.0	-5.0	1.5794376	6.24	1E-10