

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

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

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

Case No. 16183

VERIFIED STATEMENT OF PAUL HADEN

Paul Haden, being duly sworn upon his oath, deposes and states:

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

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

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

(b) No opposition is expected because the interest owners being pooled are unlocatable, or have been contacted and have failed or refused to join in the proposed well.

(c) A land plat outlining the unit being pooled is attached as Attachment A. Mewbourne Oil Company seeks an order pooling all interests in a 320-acre horizontal spacing unit in the Bone Spring formation below the top of the Second Bone Spring Sand (as defined in the application filed herein) comprised of the S/2N/2 of Section 24 and the S/2N/2 of Section 23, Township 18 South, Range 30 East, NMPM. The unit will be dedicated to the Virgo 24/23 B2HE Fed. Com. Well No. 1H, a horizontal well with a first take point in the SE/4NE/4 of Section 24 and a final take point in the SW/4NW/4 of Section 23. The Form C-102 for the well is attached as Attachment B.

The depth severance resulted from a vertical well drilled by Yates Petroleum Corporation which only tested the First Bone Spring. Rights earned in that well are limited to depths above the Second Bone Spring Sand.

(d) The parties being pooled and their interests are set forth in Attachment C.

EXHIBIT /

- (e) Some of the interest owners being pooled are unlocatable. In order to locate the interest owners Mewbourne examined the county records, performed internet searches, checked telephone records, and searched Accurant and White Pages.
- (f) Attachment D contains summaries of contacts with the parties being pooled, together with correspondence with those parties..
- (g) Mewbourne has made a good faith effort to locate the interest owners in the proposed well, or to obtain their voluntary joinder in the well.
- (h) There are no overriding royalty owners who need to be pooled.
- (i) An Authorization for Expenditure for the proposed well is attached as Exhibit E. The costs set forth therein are fair and reasonable, and comparable to those of other similar wells in this area.
- (j) Mewbourne requests overhead and administrative rates of \$7500/month for a drilling well and \$700/month for a producing well. These rates are fair, and comparable to the rates charged by other operators for wells of this type in this portion of Eddy County. They are also the rates set forth in the Joint Operating Agreement for the well unit. Mewbourne requests that these rates be adjusted periodically as provided in the COPAS Accounting Procedure.
- (k) Mewbourne requests that it be designated operator of the well.
- (l) The offsets to the well unit are set forth on Attachment ^F~~E~~.
- (m) The attachments to this affidavit were prepared by me, or compiled from company business records.
- (n) The granting of this application is in the interests of conservation and the prevention of waste.

VERIFICATION

STATE OF TEXAS)
) ss.
COUNTY OF MIDLAND)

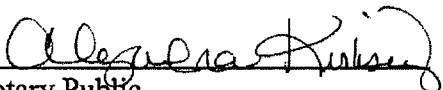
Paul Haden, being duly sworn upon his oath, deposes and states that: He is a landman for Mewbourne Oil Company; he is authorized to make this verification on its behalf; he has read the foregoing statement, and knows the contents thereof; and the same is true and correct to the best of his knowledge,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



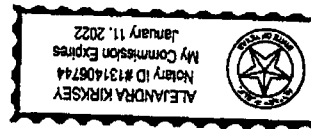
Paul Haden

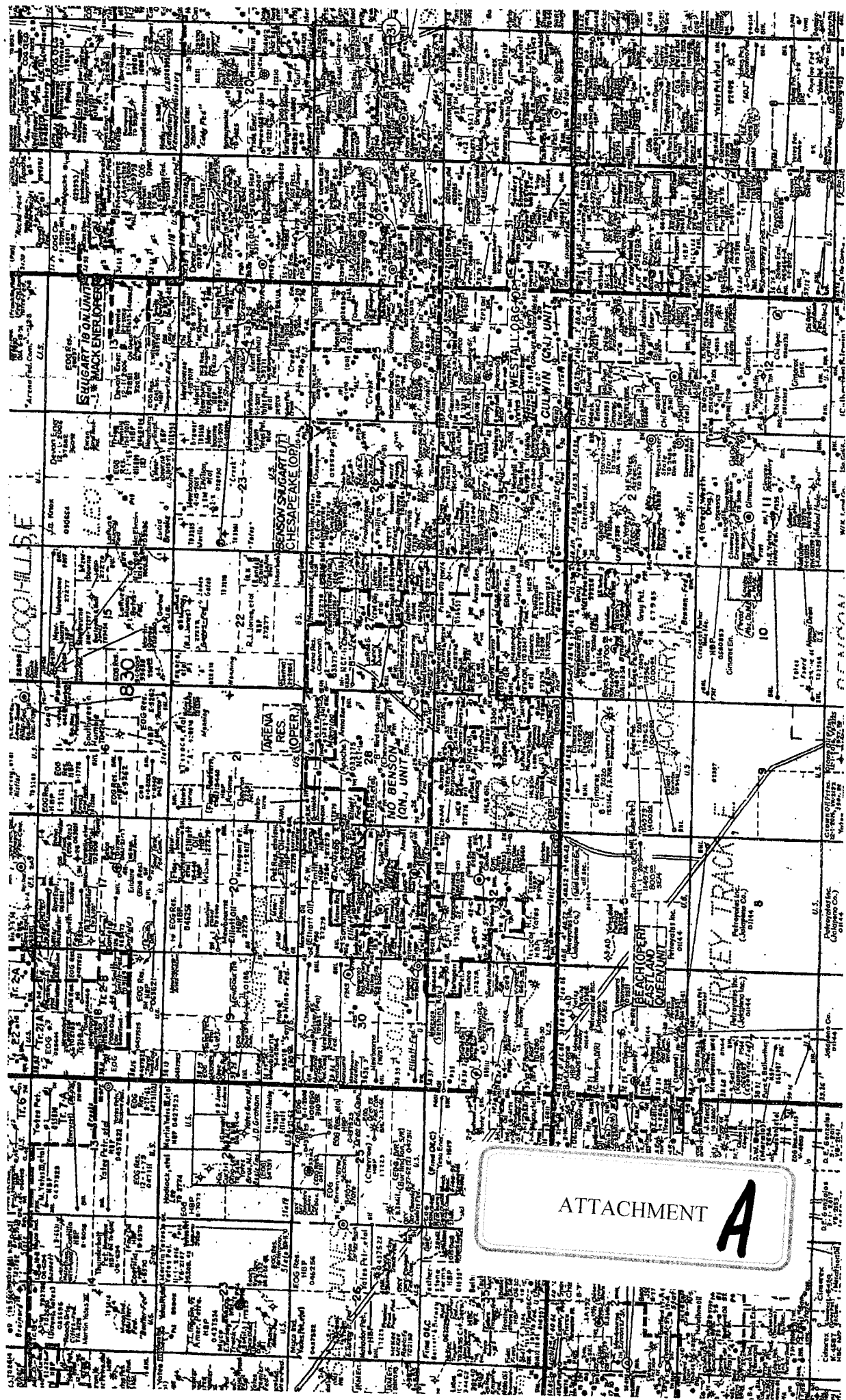
SUBSCRIBED AND SWORN TO before me this 28th day of November, 2018 by Paul Haden.

My Commission Expires: January 11, 2022



Notary Public





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
ARTESIA DISTRICT
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

RECEIVED

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-44655		2 Pool Code 56405		3 Pool Name SHUGART NORTH BONE SPRING	
4 Property Code 326691		5 Property Name VIRGO 24/23 B2HE FED COM			6 Well Number 1H
7 GRID NO. 14744		8 Operator Name MEWBOURNE OIL COMPANY			9 Elevation 3644'

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
H	24	18S	30E		1850	NORTH	185	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
E	23	18S	30E		1850	NORTH	330	WEST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
320			

No allowable will be assigned to this completion until all interest have been consolidated or a nc

ATTACHMENT

B

16

GEODETIC DATA
NAD 27 GRID - NM EAST
SURFACE LOCATION
N: 631339.7 - E: 628025.5
LAT: 32.73485665° N
LONG: 103.91898701° W
BOTTOM HOLE
N: 631306.1 - E: 617886.4
LAT: 32.73488847° N
LONG: 103.94963468° W
GEODETIC DATA
NAD 83 GRID - NM EAST
SURFACE LOCATION
N: 631402.9 - E: 669204.5
LAT: 32.73507516° N
LONG: 103.91749301° W
BOTTOM HOLE
N: 631369.3 - E: 659165.4
LAT: 32.73508665° N
LONG: 103.95014122° W

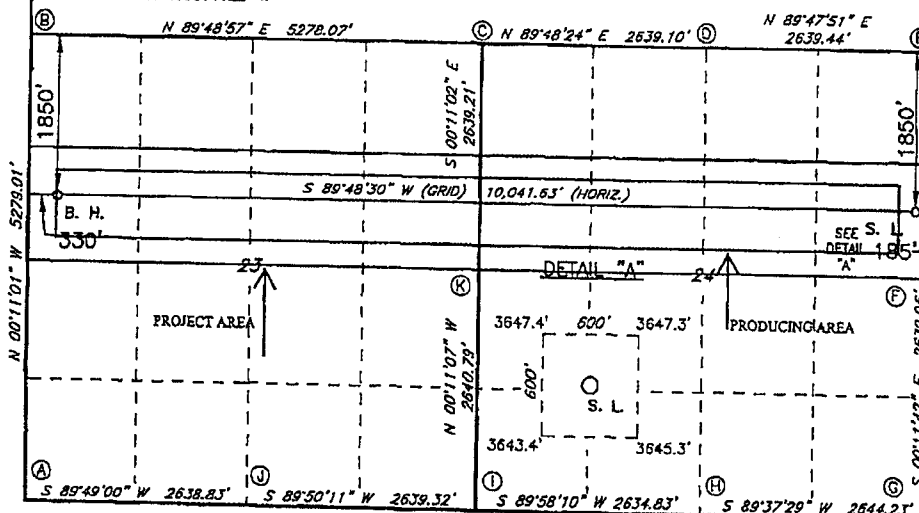
CORNER DATA
NAD 27 GRID - NM EAST
A: FOUND BRASS CAP "1916"
N: 627876.9 - E: 617867.5
B: FOUND BRASS CAP "1916"
N: 633154.6 - E: 617650.5
C: FOUND BRASS CAP "1916"
N: 633171.6 - E: 622927.3
D: FOUND BRASS CAP "1916"
N: 633180.5 - E: 625565.8
E: FOUND BRASS CAP "1916"
N: 633189.8 - E: 628204.8
F: FOUND BRASS CAP "1916"
N: 630550.9 - E: 628213.1
G: FOUND BRASS CAP "1916"
N: 627911.8 - E: 628222.0
H: FOUND BRASS CAP "1916"
N: 627894.3 - E: 625578.5
I: FOUND BRASS CAP "1916"
N: 627892.9 - E: 622944.3
J: FOUND BRASS CAP "1916"
N: 627885.3 - E: 620305.6
K: FOUND BRASS CAP "1916"
N: 830533.0 - E: 622935.8

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 **BRADLEY BISHOP** Date **7-26-17**
Printed Name
E-mail Address **BBISHOP@MEWBOURNE.COM**

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.

3-04-2016
Date of Survey
Signature and Seal of Professional Surveyor
19680
Certificate Number



RRC - Firm No.: TX 10193838 NM 4655451 - Job No.: LS1602071

RF 2-2-18

Case No. 16183

TRACT OWNERSHIP
Virgo 24/23 B2HE Fed. Com #1H
S/2N/2 of Section 24 and S/2N/2 of Section 23,
T18S, R29E, Eddy County, New Mexico

S/2NW/4 of Section 24:

Mewbourne Oil Company	69.75%
EOG Y Resources, Inc.	19.14%
EOG Resources, Inc.	2.78%
Cannon Exploration Company	2.32%
Devon Energy Production Company, LP	1.85%
Tara – Jon Corporation	1.85%
Rio Pecos Corporation	1.85%
Roger T. & Holly L. Elliott Family Limited Partnership	0.46%
	<u>100.0000%</u>

SW/4NE/4 of Section 24:

Devon Energy Production Company, LP	38.88%
Marathon Oil Permian, LLC	36.42%
EOG Y Resources, Inc.	19.14%
EOG Resources, Inc.	02.78%
Cannon Exploration Company	02.32%
Roger T. & Holly L. Elliott Family Limited Partnership	0.46%
	<u>100.0000%</u>

ATTACHMENT

C

SE/4NE/4 of Section 24:

EOG Resources, Inc.	34.95%
Mewbourne Oil Company	18.50%
MRC Delaware Resources, Inc.	14.27%
Vladin, LLC	12.33%
Santo Legado, LLP	08.22%
EOG Y Resources, Inc.	07.99%
Jalapeno Corporation	03.74%
	<u>100.0000%</u>

SW/4NW/4 of Section 23:

EOG Resources, Inc.	100.00%
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SE/4NW/4 and SW/4NE/4 of Section 23:

Mewbourne Oil Company	100.00%
-----------------------	---------

SE/4NE/4 of Section 24:

EOG Resources Assets, Inc.	34.95%
Mewbourne Oil Company	18.50%
MRC Delaware Resources, LLC	14.27%
Vladin, LLC	12.33%
Santo Legado, LLC	08.22%
EOG Y Resources, Inc.	07.99%
Jalapeno Corporation	03.74%
	<u>100.0000%</u>

Ownership in Project Area:

Mewbourne Oil Company	54.33438%
EOG Resources, Inc.	18.64750%
EOG Y Resources, Inc.	09.57000%
*Devon Energy Production Company, LP	05.32250%
*Marathon Oil Permian, LLC	04.55250%
*MRC Delaware Resources, Inc.	01.78375%
Vladin, LLC	01.56250%
Rio Pecos Corporation	01.20375%
Santo Legado, LLC	01.04125%
Cannon Exploration Company	00.98500%
Jalapeno Corporation	00.75000%
Roger T. & Holly L. Elliott Family Limited Partnership	00.20062%
Tara – Jon Corporation	00.04625%
	<u>100.0000%</u>

***Note:** These are the uncommitted owners.

CASE NO. 16183 and CASE NO. 16184

Summary of Communications:
Virgo 24/23 B2HE Fed Com #1H
S/2N/2 Section 24 and S/2N/2 of Section 23;
Virgo 24/23 B2IL Fed Com #1H Wells
N/2S/2 of Section 24 and N/2S/2 of Section 23,
T18S, R30E, Eddy County, New Mexico

Contact: MRC Delaware Resources, Inc.
Nick Weeks – Landman (972) 371- 5481

- 02-23-2018:** Proposed above wells via certified mail with AFEs. Previously overnighted Operating Agreement January 24, 2018.
- 05-24-2018:** Email to Nick checking on status of their participation and reminder that pooling hearing was to occur May 31, 2018.
- 05-24-2018:** Received email from Nick requesting status of the operatorship conflict between MOC and EOG. Advised Nick that we have not resolved the conflict but were still negotiating.
- 05-24-2018:** Nick advised us that MRC would enter an appearance at the hearing. They would sign JOA once the operator issue was resolved.
- 05-24-2018:** Responded to Nick via email that we would let him know when the operator conflict was resolved.

Contact: Marathon Oil Permian, LLC
Matt D. Brown – Landman (713) 296-3408

- 02-26-2018:** Proposed above wells via certified mail with AFEs. Operating was previously mailed for their execution on January 24, 2018.
- 05-22-2018:** Follow up email regarding their participation and reminder that pooling hearing was to occur May 31, 2018.
- 05-30-2018:** Emailed Jessica Gorman of Marathon a copy of our Drilling Opinion pursuant to her request.
- 06-19-2018:** Emailed Matt requesting status of their participation.
- 06-19-2018:** Received email from Matt that he was out of the office June 13th thru June 27th.
- 10-15-2018:** Mitch Robb of MOC was advised by Marathon that they would elect to be pooled in all outside well proposals as they had other priorities. They would make their participation elections once the Pooling Orders were revised.

Contact: Devon Energy Production Company, LP
Cari Allen – Landman (405) 228-4397

- 05-15-2018:** Received phone call from Cari advising me that they received a pooling notice. She advised me that they had not received our well proposals.
- 05-15-2018:** Emailed and mailed our well proposals with AFEs. Operating Agreement was previously mailed to her via overnight mail on January 24, 2018 for their execution.
- 05-15-2018:** Received email from Cari requesting us to confirm what their WI was in the B2HE Fed Com #1H Well.
- 05-15-2018:** Emailed Cari confirming what their WI was in the B2HE Well.
- 05-29-2018:** Emailed Cari and advised her that we had continued the hearings to June 14, 2018.
- 08-07-2018:** Received email from Cari advising me that Devon would respond to our well proposal once Pooling Order was issued and would sign AFE and participate under the Order.

ATTACHMENT

D

MEWBOURNE OIL COMPANY

500 W. TEXAS, SUITE 1020
MIDLAND, TEXAS 79701

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

February 23, 2018

Via Certified Mail

MRC Delaware Resources, Inc.
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240
Attn: Nick Weeks

Re: Virgo 24/23 B2HE Fed Com #1H
S/2 N/2 Section 24 and S/2 N/2 Section 23; and
Virgo 24/23 B2IL Fed Com #1H
N/2 S/2 Section 24 and N/2 S/2 Section 23,
T18S, R30E
Eddy County, New Mexico

Ladies and Gentlemen:

Mewbourne Oil Company as Operator proposes to drill the captioned wells under the terms of the proposed Operating Agreement dated December 1, 2017 which was previously furnished to you for execution. The captioned wells will be drilled sometime in 2018 after the Virgo 24/23 B2AD Fed Com #1H Well is drilled and completed.

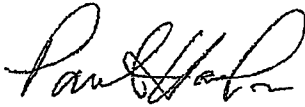
Regarding the above, Mewbourne proposes to drill the Virgo 24/23 B2HE Fed Com #1H Well at a proposed surface location 2350' FNL & 205' FEL of the captioned Section 24. The proposed well will be drilled at such location and drilled to a true vertical depth of approximately 8746 feet beneath the surface in the Bone Spring formation and drilled to a terminus point 1850' FNL & 330' FWL of the captioned Section 23 being the bottom hole location in the Second Bone Spring Sand interval in the Bone Spring formation. The true measured depth for this well will be approximately 18665 feet with the well being dedicated to the S/2 N/2 of Section 24 and S/2 N/2 of Section 23 comprising 320 acres, more or less as its nonstandard oil proration unit and project area.

At a later date Mewbourne proposes to drill the Virgo 24/23 B2IL Fed. Com #1H Well at a proposed surface location 2400' FNL & 205' FEL on the same drilling pad of the previous referenced well in the captioned Section 24. The proposed well will be drilled at such location and drilled to a true vertical depth of approximately 8767 feet beneath the surface in the Bone Spring formation and drilled to a terminus point 1980' FSL & 330' FWL of the captioned Section 23 being the bottom hole location in the second Bone Spring Sand interval in the Bone Spring formation. The true measured depth for this well will be approximately 18785' with the well being dedicated to the N/2 S/2 of Section 24 and N/2 S/2 of Section 23 comprising 320 acres, more or less as its nonstandard oil proration unit and project area.

Regarding the above proposed wells, enclosed for your further handling is an AFE for each of the proposed wells. In the event your firm elects to participate in the proposed wells, please have these AFEs signed and returned to me within thirty (30) days of your receipt of the referenced AFEs.

Sincerely yours,

MEWBOURNE OIL COMPANY

A handwritten signature in cursive script, appearing to read "D. Paul Haden".

D. Paul Haden
Senior Landman
DPH/cb

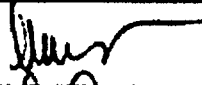


Date: February 26, 2018

Simple Certified:

The following is in response to your February 26, 2018 request for delivery information on your Certified Mail™/RRE item number 9414810699945029380700. The delivery record shows that this item was delivered on February 26, 2018 at 3:03 pm in DALLAS, TX 75240. The scanned image of the recipient information is provided below.

Signature of Recipient :

Delivery Section	
Signature	
Printed Name	

Address of Recipient :

Delivery Address	5400 LBJ #1500
------------------	----------------

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

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

Sincerely,
United States Postal Service

Nick Weeks
MRC Delaware Resources, Inc.
5400 LBJ FWY STE 1500
DALLAS, TX 75240
Reference #: PH Virgo 24/23 B2HE Fed Com #1H
Item ID: PH Virgo 24 23 B2HE Fed Com No1H

MEWBOURNE OIL COMPANY

500 W. TEXAS, SUITE 1020
MIDLAND, TEXAS 79701

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

May 15, 2018

Via Email cari.allen@dvn.com and First-Class Mail

Devon Energy Production Company, LP
333. W Sheridan Ave.
Oklahoma City, OK 73102-5010
Attn: Cari Allen

Re: Virgo 24/23 B2HE Fed Com #1H
S/2 N/2 Section 24 and S/2 N/2 Section 23; and
Virgo 24/23 B2IL Fed Com #1H
N/2 S/2 Section 24 and N/2 S/2 Section 23,
T18S, R30E
Eddy County, New Mexico

Dear Cari:

Mewbourne Oil Company as Operator proposes to drill the captioned wells under the terms of the proposed Operating Agreement dated December 1, 2017 which was previously furnished to you for execution. The captioned wells will be drilled sometime in 2018 after the Virgo 24/23 B2AD Fed Com #1H Well is drilled and completed.

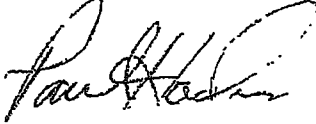
Regarding the above, Mewbourne proposes to drill the Virgo 24/23 B2HE Fed Com #1H Well at a proposed surface location 2350'FNL & 205'FEL of the captioned Section 24. The proposed well will be drilled at such location and drilled to a true vertical depth of approximately 8746 feet beneath the surface in the Bone Spring formation and drilled to a terminus point 1850'FNL & 330' FWL of the captioned Section 23 being the bottom hole location in the Second Bone Spring Sand interval in the Bone Spring formation. The true measured depth for this well will be approximately 18665 feet with the well being dedicated to the S/2 N/2 of Section 24 and S/2 N/2 of Section 23 comprising 320 acres, more or less as its nonstandard oil proration unit and project area.

At a later date Mewbourne proposes to drill the Virgo 24/23 B2IL Fed. Com #1H Well at a proposed surface location 2400'FNL & 205'FEL on the same drilling pad of the previous referenced well in the captioned Section 24. The proposed well will be drilled at such location and drilled to a true vertical depth of approximately 8767 feet beneath the surface in the Bone Spring formation and drilled to a terminus point 1980' FSL & 330' FWL of the captioned Section 23 being the bottom hole location in the second Bone Spring Sand interval in the Bone Spring formation. The true measured depth for this well will be approximately 18785' with the well being dedicated to the N/2 S/2 of Section 24 and N/2 S/2 of Section 23 comprising 320 acres, more or less as its nonstandard oil proration unit and project area.

Regarding the above proposed wells, enclosed for your further handling is an AFE for each of the proposed wells. In the event your firm elects to participate in the proposed wells, please have these AFEs signed and returned to me within thirty (30) days of your receipt of the referenced AFEs.

Sincerely yours,

MEWBOURNE OIL COMPANY

A handwritten signature in dark ink, appearing to read "D. Paul Haden", written in a cursive style.

D. Paul Haden
Senior Landman
DPH/cb

MEWBOURNE OIL COMPANY

500 W. TEXAS, SUITE 1020
MIDLAND, TEXAS 79701

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

February 26, 2018

Via Certified Mail

Marathon Oil Permian, LLC
5555 San Felipe
Houston, TX 77056-2701
Attn: Matt D. Brown

Re: Virgo 24/23 B2HE Fed Com #1H
S/2 N/2 Section 24 and S/2 N/2 Section 23; and
Virgo 24/23 B2IL Fed Com #1H
N/2 S/2 Section 24 and N/2 S/2 Section 23,
T18S, R30E
Eddy County, New Mexico

Dear Matt:

Mewbourne Oil Company as Operator proposes to drill the captioned wells under the terms of the proposed Operating Agreement dated December 1, 2017 which was previously furnished to you for execution. The captioned wells will be drilled sometime in 2018 after the Virgo 24/23 B2AD Fed Com #1H Well is drilled and completed.

Regarding the above, Mewbourne proposes to drill the Virgo 24/23 B2HE Fed Com #1H Well at a proposed surface location 2350'FNL & 205'FEL of the captioned Section 24. The proposed well will be drilled at such location and drilled to a true vertical depth of approximately 8746 feet beneath the surface in the Bone Spring formation and drilled to a terminus point 1850'FNL & 330' FWL of the captioned Section 23 being the bottom hole location in the Second Bone Spring Sand interval in the Bone Spring formation. The true measured depth for this well will be approximately 18665 feet with the well being dedicated to the S/2 N/2 of Section 24 and S/2 N/2 of Section 23 comprising 320 acres, more or less as its nonstandard oil proration unit and project area.

At a later date Mewbourne proposes to drill the Virgo 24/23 B2IL Fed. Com #1H Well at a proposed surface location 2400'FNL & 205'FEL on the same drilling pad of the previous referenced well in the captioned Section 24. The proposed well will be drilled at such location and drilled to a true vertical depth of approximately 8767 feet beneath the surface in the Bone Spring formation and drilled to a terminus point 1980' FSL & 330' FWL of the captioned Section 23 being the bottom hole location in the second Bone Spring Sand interval in the Bone Spring formation. The true measured depth for this well will be approximately 18785' with the well being dedicated to the N/2 S/2 of Section 24 and N/2 S/2 of Section 23 comprising 320 acres, more or less as its nonstandard oil proration unit and project area.

Regarding the above proposed wells, enclosed for your further handling is an AFE for each of the proposed wells. In the event your firm elects to participate in the proposed wells, please have these AFEs signed and returned to me within thirty (30) days of your receipt of the referenced AFEs.

Sincerely yours,

MEWBOURNE OIL COMPANY

A handwritten signature in cursive script, appearing to read "D. Paul Haden".

D. Paul Haden
Senior Landman
DPH/cb

MEWBOURNE OIL COMPANY
AUTHORIZATION FOR EXPENDITURE

Well Name: Virgo 24/23 B2HE Fed Com #1H		Prospect: Bone Spring	
Location: SL: 2350' FNL & 205' FEL (24); BHL: 1950' FNL & 330' FWL (23)		County: Eddy ST: NM	
Sec: 24	BLK: 	Survey: 	TWP: 18S RNG: 30E Prop. TWD: 8746 TMD: 18665

INTANGIBLE COSTS 0180		CODE	TCP	CODE	CC
Regulatory Permits & Surveys		0180-0100	\$10,000	0180-0200	
Location / Road / Site / Preparation		0180-0105	\$60,000	0180-0205	\$50,000
Location / Restoration		0180-0106	\$175,000	0180-0206	\$30,000
Daywork / Turnkey / Footage Drilling 25 days drlg / 4 days comp @ \$20,000/d		0180-0110	\$534,000	0180-0210	\$85,400
Fuel 1500 gal/day @ 2.63/gal		0180-0114	\$124,700	0180-0214	\$200,000
Mud, Chemical & Additives		0180-0120	\$200,000	0180-0220	
Horizontal Drillout Services Coil Tbg Drillout				0180-0222	\$220,000
Cementing		0180-0125	\$90,000	0180-0225	\$30,000
Logging & Wireline Services		0180-0130	\$2,000	0180-0230	\$380,000
Casing / Tubing / Snubbing Service		0180-0134	\$20,000	0180-0234	\$80,000
Mud Logging		0180-0137	\$30,000		
Stimulation 49 Stg 19 MM gal / 19 MM lb				0180-0241	\$3,100,000
Stimulation Rentals & Other				0180-0242	\$200,000
Water & Other		0180-0145	\$50,000	0180-0245	\$600,000
Bits		0180-0148	\$72,000	0180-0248	\$4,000
Inspection & Repair Services		0180-0160	\$40,000	0180-0250	\$5,000
Misc. Air & Pumping Services		0180-0154		0180-0254	\$10,000
Testing & Flowback Services		0180-0158	\$15,000	0180-0258	\$30,000
Completion / Workover Rig				0180-0260	\$10,500
Rig Mobilization		0180-0164	\$120,000		
Transportation		0180-0165	\$20,000	0180-0265	\$20,000
Welding Services		0180-0168	\$5,000	0180-0268	\$15,000
Contract Services & Supervision		0180-0170	\$42,000	0180-0270	\$51,000
Directional Services Includes Vertical Control		0180-0175	\$210,000		
Equipment Rental		0180-0180	\$205,100	0180-0280	\$30,000
Well / Lease Legal		0180-0184	\$5,000	0180-0284	
Well / Lease Insurance		0180-0185	\$5,700	0180-0285	
Intangible Supplies		0180-0188	\$8,000	0180-0288	\$10,000
Damages		0180-0190	\$5,000	0180-0290	
ROW & Easements		0180-0192		0180-0292	\$1,000
Pipeline Interconnect				0180-0293	
Company Supervision		0180-0195	\$134,400	0180-0295	\$163,200
Overhead Fixed Rate		0180-0196	\$10,000	0180-0296	\$20,000
Well Abandonment		0180-0198		0180-0298	
Contingencies 10% (TCP) 10% (CC)		0180-0199	\$219,300	0180-0299	\$534,500
TOTAL			\$2,412,200		\$5,879,800

TANGIBLE COSTS 0181		CODE	TCP	CODE	CC
Casing (19.1" - 30")		0181-0793			
Casing (10.1" - 19.0") 500' - 13 3/8" 54.5# J-55 ST&C @ \$32.50/ft		0181-0794	\$17,400		
Casing (8.1" - 10.0") 16000' - 9 5/8" 36# J-55 LT&C @ \$24.85/ft		0181-0795	\$42,500		
Casing (6.1" - 8.0") 9000' - 7" 26# P-110 LT&C @ \$21.99/ft		0181-0796	\$211,400		
Casing (4.1" - 6.0") 10400' - 4 1/2" 13.5# P-110 LTC @ \$13.66/ft				0181-0797	\$151,800
Tubing 8230' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.90/ft				0181-0798	\$43,100
Drilling Head		0181-0860	\$40,000		
Tubing Head & Upper Section				0181-0870	\$30,000
Horizontal Completion Tools Completion Liner Hanger				0181-0871	\$70,000
Sucker Rods				0181-0875	
Subsurface Equipment				0181-0880	
Artificial Lift Systems Gas Lift Valves				0181-0884	\$15,000
Pumping Unit				0181-0885	
Surface Pumps & Prime Movers 1/2 VRU/SWD Pump/Circ Pump				0181-0886	\$30,000
Tanks - Oil 3 - 750 bbl Steel				0181-0890	\$43,000
Tanks - Water 2 - 750 bbl Steel Coated				0181-0891	\$40,000
Separation / Treating Equipment 30"x10"x1k# 3 ph/36"x15"x1k# Hor 3ph/Gun bbl				0181-0895	\$42,000
Heater Treaters, Line Heaters 6"x20"x75# HT				0181-0897	\$16,000
Metering Equipment				0181-0898	\$14,000
Line Pipe & Valves - Gathering				0181-0900	\$10,000
Fittings / Valves & Accessories				0181-0906	\$50,000
Cathodic Protection				0181-0908	\$5,000
Electrical Installation				0181-0909	\$25,000
Equipment Installation				0181-0910	\$45,000
Pipeline Construction				0181-0920	\$5,000
TOTAL			\$311,300		\$634,800
SUBTOTAL			\$2,723,500		\$6,514,500
TOTAL WELL COST			\$9,238,000		

☐ 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 ins

Prepared by: T. Cude Date:

Company Approval: *m. white* Date:

Joint Owner Interest: Amount:

Joint Owner Name: Signature:

ATTACHMENT **E**

File: Virgo 24-23 B2HE Fed Com #1H AFE.xlsx Revised: 01/31/2018

Offset Operators and Working Interest Owners

N/2N/2 Section 23 and N/2N/2 Section 24

Mewbourne Oil Company

N/2S/2 Section 23 and N/2S/2 Section 24

Mewbourne Oil Company

EOG Resources, Inc.

E/2NE/4 Section 22

EOG Resources, Inc.

E/2SE/4 Section 22

Conoco Phillips Company

N/2N/2 Section 19-18S-31E

Devon Energy Production Company, L.P.

S/2N/2 and N/2S/2 Section 19-18S-31E

Marathon Oil Permian LLC

ATTACHMENT

F

**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.**

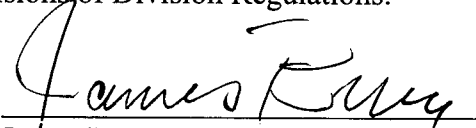
Case No. 16183

AFFIDAVIT OF NOTICE

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

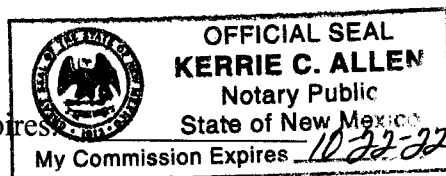
James Bruce, being duly sworn upon his oath, deposes and states:

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 28th day of November, 2018 by
James Bruce.

My Commission Expires




Notary Public



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 30, 2018

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

To: Persons on Exhibit A

Ladies and gentlemen:

Enclosed is a copy of an amended application for compulsory pooling, filed with the New Mexico Oil Conservation Division by Mewbourne Oil Company, regarding a Bone Spring well in the S/2N/2 of Section 24 and the S/2N/2 of Section 23, Township 18 South, Range 30 East, NMPM, Eddy County, New Mexico (Case No. 16183).

This matter is scheduled for hearing at 8:15 a.m. on Thursday, September 20, 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 application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from contesting this matter at a later date.

A party appearing in a Division case is required by Division Regulations to file a Pre-Hearing Statement no later than Thursday, September 13, 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 identification of any procedural matters that need to be resolved prior to the hearing

Very truly yours,


James Bruce

Attorney for Mewbourne Oil Company

ATTACHMENT

A

EXHIBIT A

EOG Resources, Inc. and
EOG Resources, Inc.
5509 Champions Drive
Midland, TX 79706
Attn: Chuck Moran

Cannon Exploration Company
3508 SCR 1184
Midland, TX 79706
Attn: Mr. Todd Wilson

Devon Energy Production Company, LP
333 W. Sheridan Ave.
Oklahoma City, OK 73102-510
Attn: Cari Allen

Tara -- Jon Corporation and
Rio Pecos Corporation
P.O. Box 2415
Midland, TX 79702-2415
Attn: Heather Echols

Marathon Oil Permian, LLC
5555 San Felipe
Houston, TX 77056-2701
Attn: Matt D. Brown

MRC Delaware Resources, Inc.
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Jalapeno Corporation
P.O. Box 1608
Albuquerque, NM 87102-1608
Attn: Kathryn Reese

Phoebe Jane Welch
20350 Marsh Creek Rd.
Brentwood, CA 94513

Phoebe Jane Welch III and
Sanders Thomas Welch

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.
- Article Addressed to:

MRC Delaware Resources, Inc.
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240



9590 9402 4079 8092 0201 31

Article Number (Transfer from service label)

7018 1130 0001 5002 5149

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

Domestic Return Receipt

M-V-HE

U.S. Postal ServiceTM 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 MRC Delaware Resources, Inc.	
5400 LBJ Freeway, Suite 1500	
Dallas, TX 75240	
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)	C. Date of Delivery	
Dane Burns	9/7/18	
D. Is delivery address different from item 1? ☐ Yes ☐ No		
If YES, enter delivery address below:		

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

(over \$500)

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:

Marathon Oil Permian, LLC
5555 San Felipe
Houston, TX 77056-2701
Attn: Matt D. Brown



9590 9402 4079 8092 0201 24

2. Article

7018 1130 0001 5002 5156

(over \$500)

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature	☒ Agent	☐ Addressee
B. Received by (Printed Name)	C. Date of Delivery	
Marcos Coney	9/11/18	
D. Is delivery address different from item 1? ☐ Yes ☐ No		
If YES, enter delivery address below:		

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

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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 MRC Delaware Resources, Inc.	
5400 LBJ Freeway, Suite 1500	
Dallas, TX 75240	
City, State, ZIP+4 [®]	

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

U.S. Postal ServiceTM CERTIFIED MAIL[®] RECEIPT Domestic Mail Only

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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 Marathon Oil Permian, LLC	
5555 San Felipe	
Houston, TX 77056-2701	
Attn: Matt D. Brown	
City, State, ZIP+4 [®]	

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

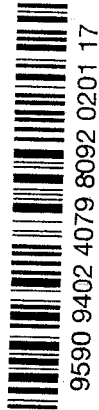
Postmark
Here

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:

Ena - Jan Corporation and
Rox Pecos Corporation
P.O. Box 2415
Midland, TX 79702-2415



9590 9402 4079 8092 0201 17

2. Article Number *7018 1130 0001 5002 5163*

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

M-V-HC

Domestic Return Receipt

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Certified Mail Fee \$		Postmark Here	
Extra Services & Fees (check box, add fee as appropriate)			
☐ Return Receipt (hardcopy)	\$		
☐ Return Receipt (electronic)	\$		
☐ Certified Mail Restricted Delivery	\$		
☐ Adult Signature Required	\$		
☐ Adult Signature Restricted Delivery	\$		
Postage \$			
Total Postage and Fees			
Sent To		Ena - Jan Corporation and Rox Pecos Corporation P.O. Box 2415 Midland, TX 79702-2415	
Street and Apt. No., or P.O. Box		Midland, TX 79702-2415	
City, State, ZIP+4 [®]		Midland, TX 79702-2415	

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

See Reverse for Instructions

COMPLETE THIS SECTION ON DELIVERY

- A. Signature *X* *Meissa Culp* ☐ Agent ☐ Addressee
- B. Received by (Printed Name) *Meissa Culp* ☐ Date of Delivery *9-18-18*
- D. Is delivery address different from item 1? ☐ Yes ☐ No
If YES, enter delivery address below:

3. Service Type
- ☐ Priority Mail Express[®]
 - ☐ Registered MailTM
 - ☐ Adult Signature Restricted Delivery
 - ☒ Certified Mail[®]
 - ☐ Certified Mail Restricted Delivery
 - ☐ Return Receipt for Merchandise
 - ☐ Signature ConfirmationTM
 - ☐ 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:

EOG Resources Assets, LLC
EOG Y Resources, Inc.
EOG A Resources, Inc.
5509 Champions Drive
Midland, Texas 79706



9590 9402 4079 8092 0200 49

2. Article Number *7018 1130 0001 5002 5095*

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

M-V-FU

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

- A. Signature *X* *Meissa Culp* ☐ Agent ☐ Addressee
- B. Received by (Printed Name) *Meissa Culp* ☐ Date of Delivery
- D. Is delivery address different from item 1? ☐ Yes ☐ No
If YES, enter delivery address below:

3. Service Type
- ☐ Priority Mail Express[®]
 - ☐ Registered MailTM
 - ☐ Adult Signature Restricted Delivery
 - ☒ Certified Mail[®]
 - ☐ Certified Mail Restricted Delivery
 - ☐ Return Receipt for Merchandise
 - ☐ Signature ConfirmationTM
 - ☐ Signature Confirmation Restricted Delivery

(over \$500)

Domestic Return Receipt

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OFFICIAL USE

Certified Mail Fee \$		Postmark Here	
Extra Services & Fees (check box, add fee as appropriate)			
☐ Return Receipt (hardcopy)	\$		
☐ Return Receipt (electronic)	\$		
☐ Certified Mail Restricted Delivery	\$		
☐ Adult Signature Required	\$		
☐ Adult Signature Restricted Delivery	\$		
Postage \$			
Total Postage and Fees			
Sent To		EOG Y Resources, Inc. and EOG Resources, Inc. 5509 Champions Drive Midland, TX 79706	
Street and Apt. No., or P.O. Box		Midland, TX 79706	
City, State, ZIP+4 [®]		Midland, TX 79706	

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

See Reverse for Instructions

9590 9402 4079 8092 0201 17

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:

Devon Energy Production Company, LP
333 W. Sheridan Ave.
Oklahoma City, OK 73102-510



9590 9402 4079 8092 0201 00

2. Article Number (Transfer from sending label)

7018 1130 0001 5002 5170

(over \$500)

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

Domestic Return Receipt

M-V-HE

COMPLETE THIS SECTION ON DELIVERY

A. Signature

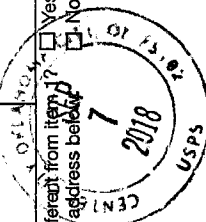
X *[Signature]* ☐ Agent

B. Received by (Printed Name) *[Signature]* ☐ Addressee

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes

If YES, enter delivery address below ☐ No



3. Service Type

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

elivery

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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 \$

Postmark
Here

Total Postage and Fees

Sent To Devon Energy Production Company, LP

333 W. Sheridan Ave.
Oklahoma City, OK 73102-510

City, State, Zip+4®

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

See Reverse for Instructions

7018 1130 0001 5002 5170

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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	\$	

Postmark
Here

Sent To	Cannon Exploration Company
Street and Apt. No.	3308 St. R 1184
City, State, Zip+4®	Midland, TX 79706

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 1130 0001 5002 5132

\$6.91⁰
US POSTAGE
FIRST-CLASS

071V00607931
87501
000109124

Phoebe Jane Welch

NIXIE

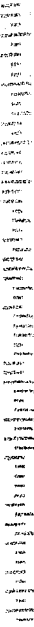
957 DE 1

0010/04/13

RETURN TO SENDER
UNCLAIMED
UNABLE TO FORWARD

94000202000000000000
9451304000 PUN
87504>1056

SC: 87504105656 *0268-03190-04-40



**U.S. Postal Service™
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OFFICIAL USE

Certified Mail Fee		Postmark Here
Extra Services & Fees (check box, add fee as appropriate)		
☐ Return Receipt (hardcopy)	\$	
☐ Return Receipt (electronic)	\$	
☐ Certified Mail Restricted Delivery	\$	
☐ Adult Signature Required	\$	
☐ Adult Signature Restricted Delivery	\$	
Postage	\$	
Total Postage and Fees		
Sent To		Phoebe Jane Welch
Street and Apt. No., or PO Box No.		20350 Marsh Creek Rd
City, State, Zip+4®		Brownwood, CA 91515

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

See Reverse for Instructions

**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.**

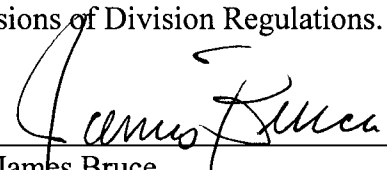
Case No. 16183

AFFIDAVIT OF NOTICE

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

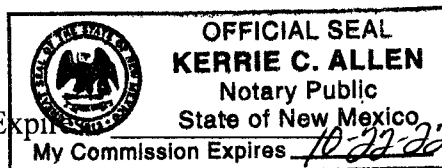
James Bruce, being duly sworn upon his oath, deposes and states:

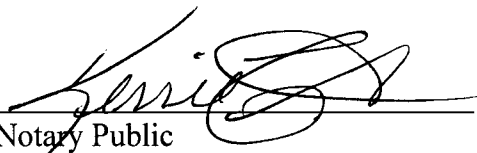
1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am an attorney for Mewbourne Oil Company.
3. Mewbourne Oil Company has conducted a good faith, diligent effort to find the names and correct addresses of the offset operators or working interest owners entitled to receive notice of the application filed herein.
4. Notice of the application was provided to the offsets 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 28th day of November, 2018 by
James Bruce.

My Commission Expires




Notary Public

EXHIBIT

3

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 30, 2018

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

To: Persons on Exhibit A

Ladies and gentlemen:

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

1. Case No. 16183, for compulsory pooling, regarding the Virgo 24/23 B2HE Fed. Com. Well No. 1H, a Bone Spring well in the S/2N/2 of Section 24 and S/2N/2 of Section 23; and
 2. Case No. 16184, for compulsory pooling, regarding the Virgo 24/23 B2IL Fed. Com. Well No. 1H, a Bone Spring well in the N/2S/2 of Section 24 and N/2S/2 of Section 23,
- both in Township 18 South, Range 30 East, NMPM, Eddy County, New Mexico.

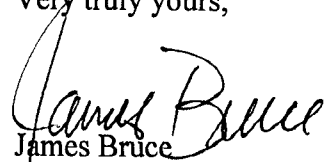
These matters are scheduled for hearing at 8:15 a.m. on Thursday, September 20, 2018, in Porter Hall at the Division's offices at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but **as an offset operator or working interest owner** who may be affected 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 these matters 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, September 13, 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 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.

ATTACHMENT

A

Very truly yours,

A handwritten signature in cursive script, appearing to read "James Bruce". The signature is written in dark ink and is positioned above the printed name.

James Bruce

Attorney for Mewbourne Oil Company

EXHIBIT A

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

Marathon Oil Permian LLC
5555 San Felipe Street
Houston, Texas 77056

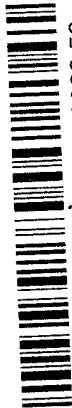
ConocoPhillips Company
600 North Dairy Ashford
Houston, Texas 77252

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:

ConocoPhillips Company
600 North Dairy Ashford
Houston, Texas 77252



9590 9402 4079 8092 0200 56

2. Article Number (Transfer from service label)

7018 1130 0001 5002 5101

(over \$500)

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

Domestic Return Receipt

**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	ConocoPhillips Company
600 North Dairy Ashford	
Houston, Texas 77252	
Street and Apt. No., or PO Box	
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)

Date of Delivery

D. Is delivery address different from item 1? ☐ Yes

If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
 - ☐ Adult Signature Restricted Delivery
 - ☐ Certified Mail®
 - ☐ Certified Mail Restricted Delivery
 - ☐ Collect on Delivery
 - ☐ Restricted Delivery
 - ☐ 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

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:

Marathon Oil Permian LLC
5555 San Felipe Street
Houston, Texas 77056



9590 9402 4079 8092 0200 63

2. Article Number (Transfer from service label)

7018 1130 0001 5002 5118

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

Domestic Return Receipt

**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	Marathon Oil Permian LLC
5555 San Felipe Street	
Houston, Texas 77056	
Street and Apt. No., or PO Box	
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) ☐ Date of Delivery
- ☒ 8-7-18
- D. Is delivery address different from item 1? ☐ Yes
- If YES, enter delivery address below: ☐ No

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

icted Delivery

5118

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:

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



9590 9402 4079 8092 0200 70

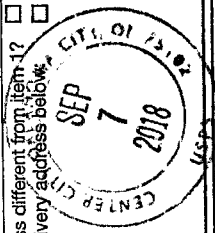
2. Article Number (Transfer from service label)

7016 1130 0001 5002 5125

COMPLETE THIS SECTION ON DELIVERY

A. Signature David Carillo ☐ Agent ☐ Addressee
B. Received by (Printed Name) _____ C. Date of Delivery _____

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



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

PS Form 3811, July 2015 PSN 7530-02-000-9053 *M-V-HEJL-0* Domestic Return Receipt

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
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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: Devon Energy Production Company, L.P.		
Street and Apt. No.: 333 West Sheridan		
City, State, ZIP+4®: Oklahoma City, Oklahoma 73102		
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions		

5275 2005 1000 0211 8702

CARLSBAD CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

Ad No.
0001260500

JAMES BRUCE ATTORNEY AT LAW
PO BOX 1056

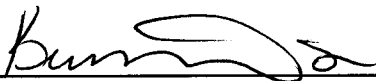
SANTA FE NM 87504

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:

09/05/18


Legal Clerk

Subscribed and sworn before me this
5th of September 2018.

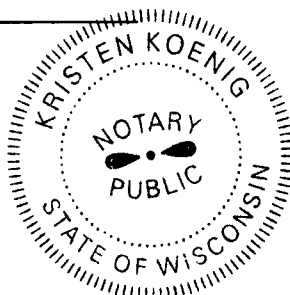


State of WI, County of Brown
NOTARY PUBLIC

3/20/2022

My Commission Expires

Ad#:0001260500
P O : 0001260500
of Affidavits :0.00



NOTICE

To: EOG Resources, Inc., LLC, EOG Y Resources, Inc., MRC Delaware Resources, Inc., Devon Energy Production Company, L.P., Marathon Oil Permian LLC, Cannon Exploration Company, Tara-Jon Corporation, Rio Pecos Corporation, Phoebe Jane Welch, Phoebe Jane Welch III, Sanders Thomas Welch, and Conoco Phillips Company, or your heirs, devisees, successors, or assigns: Mewbourne Oil Company has filed an amended application with the New Mexico Oil Conservation Division seeking an order pooling all mineral interests from the top of the Second Bone Spring Sand to the base of the Bone Spring formation in a horizontal spacing unit comprised of the S/2N/2 of Section 24 and the S/2N/2 of Section 23, Township 18 South, Range 30 East, NMPM. The unit will be dedicated to the Virgo 24/23 B2HE Fed. Com. Well No. 1H, a horizontal well with a first take point in the SE/4NE/4 of Section 24, and a last take point in the SW/4NW/4 of Section 23. Also to be considered will be the cost of drilling and completing the well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a 200% charge for the risk involved in drilling and completing the well. The application is scheduled to be heard at 8:15 a.m. on Thursday, September 20, 2018 at the Division's offices at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. As an interest owner in the well unit or as an offset operator, 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 6 miles south-southeast of Loco Hills, New Mexico.
Run Date: September 5, 2018
Legal # 1260500

EXHIBIT

4

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

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

Case No. 16183

VERIFIED STATEMENT OF CHARLES CROSBY

COUNTY OF MIDLAND)
) ss.
STATE OF TEXAS)

Charles Crosby, being duly sworn upon his oath, deposes and states:

1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am a geologist for Mewbourne Oil Company ("Mewbourne"), and I am familiar with the geological matters involved in this case. I have been qualified by the Division as an expert petroleum geologist.
3. The following geological plats are attached hereto:
 - (a) Attachment A is a structure map of the Base of the 2nd Bone Spring Sand formation. It shows that structure dips gently to the East-Southeast. It also shows a line of cross-section.
 - (b) Attachment B is a gross sand isopach of the Lower 2nd Bone Spring Sand, the test zone for the Virgo 24/23 B2HE Fed Com 1H. It shows that the sand across the well unit has a uniform thickness of approximately 80-90 feet.
 - (c) Attachment C is a west-east cross section. The well logs on the cross-section give a representative sample of the 2nd Bone Spring Sand formation in this area. The target zone for the well is the Lower 2nd Bone Spring Sand, and that zone is continuous across the well unit.
4. I conclude from the maps that:
 - (a) The horizontal spacing unit is justified from a geologic standpoint.
 - (b) Each quarter-quarter section in the unit will contribute more or less equally to production.

EXHIBIT

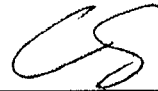
5

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

5. There is 450-500 feet of tight, impermeable mixed carbonates and clastics vertically separating the 1st Bone Spring Sand and 2nd Bone Spring Sand formations as observed on the offset wells logs.

6. Attachment D contains information from other wells drilled in this area. Production for wells with similar completions and similar time online seems to show a preference for laydown orientation, and the completed wells in the area (recent completions) are apparently commercial.

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

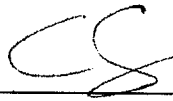


Charles Crosby

VERIFICATION

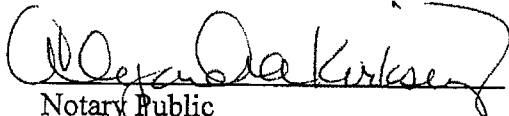
STATE OF TEXAS)
) ss.
COUNTY OF MIDLAND)

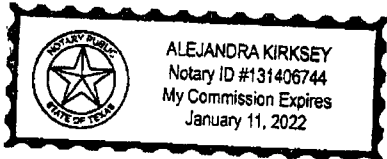
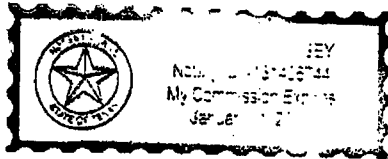
Charles Crosby, being duly sworn upon his oath, deposes and states that: He is a geologist for Mewbourne Oil Company; he is authorized to make this verification on its behalf; he has read the foregoing statement, and knows the contents thereof; and the same is true and correct to the best of his knowledge,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



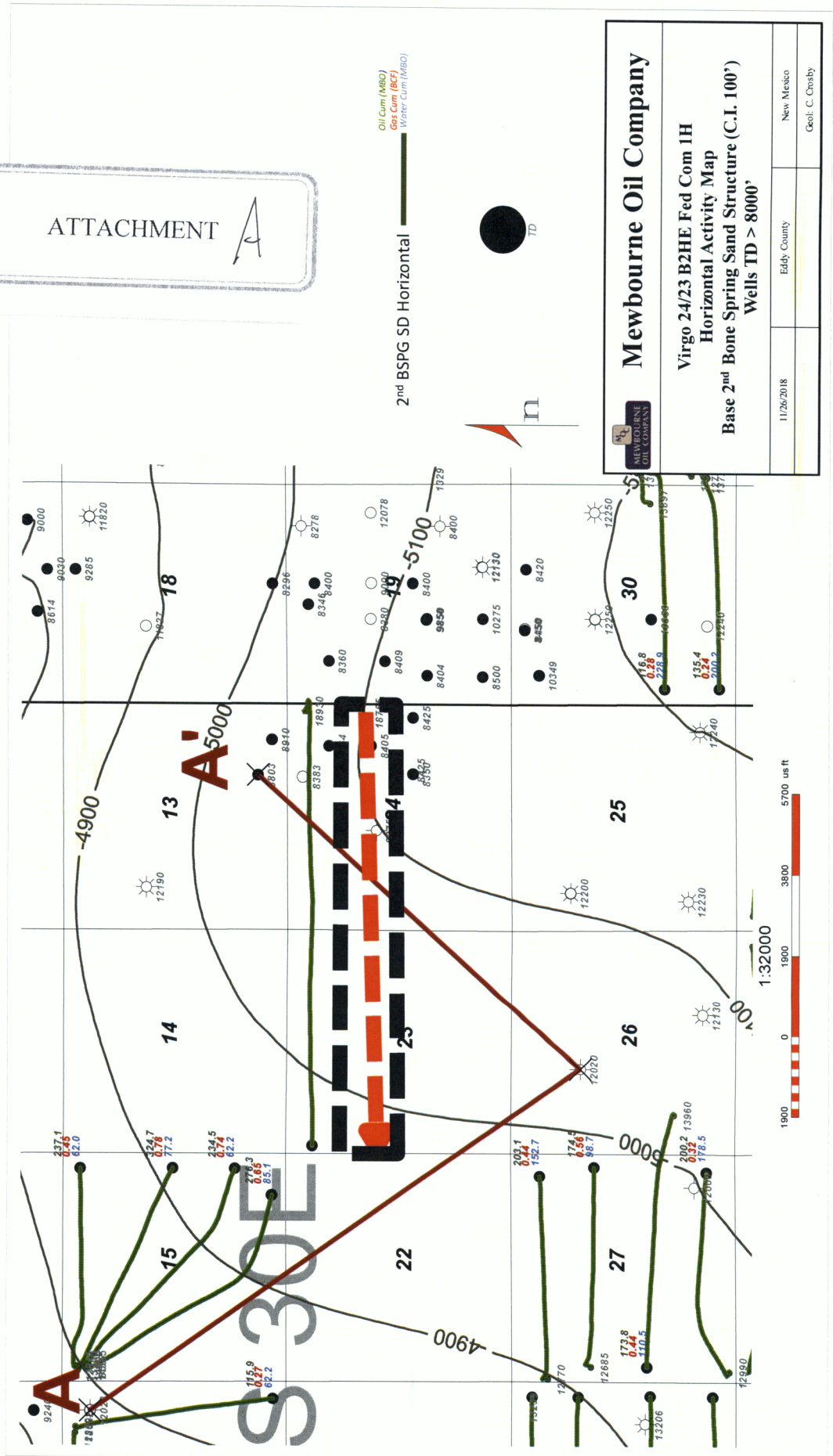
Charles Crosby

SUBSCRIBED AND SWORN TO before me this 28th day of November, 2018 by Charles Crosby.

My Commission Expires: January 11, 2022 
Notary Public



ATTACHMENT **A**



Mewbourne Oil Company

Virgo 24/23 B2HE Fed Com 1H
Horizontal Activity Map
Base 2nd Bone Spring Sand Structure (C.I. 100')
Wells TD > 8000'

11/26/2018	Eddy County	New Mexico
		Geol: C. Crosby

ГБ



Entity	Color Filled Contour
--------	----------------------



Oil Cum (MBO)
Gas Cum (BCF)
Water Cum (MBO)

2nd BSPG SD Horizontal

**Lower 2nd BSPG SD
Gross Thickness (ft)**

U



MEWBOURNE
OIL COMPANY

Mewbourne Oil Company

Virgo 24/23 B2HE Fed Com 1H

Horizontal Activity Map

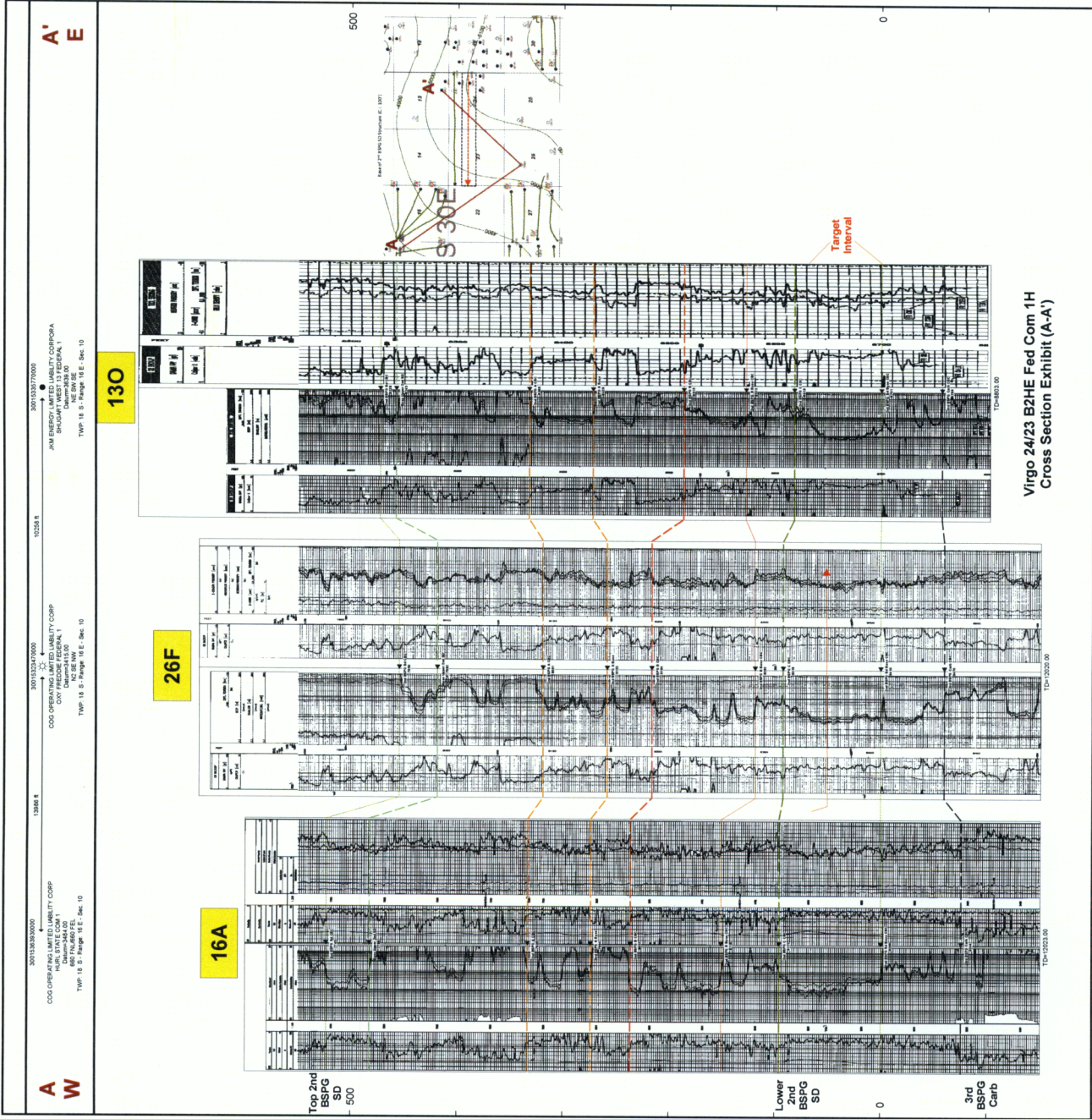
Lower 2nd BPSG Sd Gross Thickness (C.I. 20')

Wells TD > 8000'

county

Mexico

Geol: C. Crosby



Virgo Area 2nd BSPG Production Table									
Well Name	Operator	API	Location	Completion Date	Cum Oil (Mbo)	Cum Gas (Bcf)	Cum Water (Mbw)	NS/EW	2nd BSPG SD Zone
Ursa 27 Federal Com 1H	Mewbourne	3001539581	27M/18S/30E	3/28/2014	200.2	0.32	178.5	EW	Lower 2nd BSPG SD
Ursa 27 Federal Com 4H	Mewbourne	3001539582	27D/18S/30E	12/14/2013	203.1	0.44	152.7	EW	Lower 2nd BSPG SD
Shaula 30 Federal Com 4H	Devon	3001541525	29M/18S/31E	2/20/2014	135.4	0.24	200.2	EW	Lower 2nd BSPG SD
Shaula 30 Federal Com 3H	Devon	3001541553	29L/18S/31E	3/18/2014	116.8	0.28	116.8	EW	Lower 2nd BSPG SD
Leo 15 DA Federal Com 1H	Mewbourne	3001542185	15D/18S/30E	9/1/2014	237.1	0.45	62.0	EW	Lower 2nd BSPG SD
Cookie Tosser State Com 1H	COG	3001542439	16A/18S/30E	4/17/2016	115.9	0.27	62.2	NS	Lower 2nd BSPG SD
Ursa 27 B2IL Federal Com 1H	Mewbourne	3001542526	26L/18S/30E	10/29/2014	173.8	0.44	110.5	EW	Lower 2nd BSPG SD
Ursa 27 B2EH Federal Com 1H	Mewbourne	3001542596	27E/18S/30E	10/26/2014	174.5	0.56	98.7	EW	Lower 2nd BSPG SD
Leo 15 B2DH Federal Com 1H	Mewbourne	3001542898	15D/18S/30E	3/27/2015	324.7	0.78	77.2	NW-SE	Lower 2nd BSPG SD
Leo 15 B2DP Federal Com 1H	Mewbourne	3001543241	15D/18S/30E	1/17/2016	234.5	0.74	62.2	NW-SE	Lower 2nd BSPG SD
Leo 15 B2DN Federal Com 1H	Mewbourne	3001543312	15D/18S/30E	1/24/2016	276.3	0.65	85.1	NW-SE	Lower 2nd BSPG SD
Virgo 24-23 B2AD Federal Com 1H	Mewbourne	3001544579	24A/18S/30E	10/4/2018	Pending				

ATTACHMENT

D

Mewbourne Oil Company

SURVEY CALCULATION REPORT Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Virgo 24/23 B2HE Fed Com #1H
KOP 8258.54
SL: 1850 FNL & 185 FEL Sec 24-18S-30E
BHL: 2150 FNL & 100 FWL Sec 23-18S-30E

Target KBTVD: 8,736 Feet 8736.00
Target Angle: 90.79 Degrees 90.79
Section Plane: 268.59 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	8258.54	0.00	268.59	N/A	8258.5	0.0	0.0	0.0	0.0	0.0	N/A	N/A	8258.5	477.5	1E-12	4.69 #VALUE!
1	8334.20	9.08	268.59	75.66	8333.9	6.0	-0.1	-6.0	6.0	268.6	12.0	12.0	8334.0	402.0	0.15846273	4.69 0.15846273
2	8409.86	18.16	268.59	75.66	8407.3	23.8	-0.6	-23.8	23.8	268.6	12.0	12.0	8407.7	328.3	0.31692545	4.69 0.15846273
3	8485.52	27.24	268.59	75.66	8477.1	52.9	-1.3	-52.9	52.9	268.6	12.0	12.0	8477.8	258.2	0.47538818	4.69 0.15846273
4	8561.18	36.32	268.59	75.66	8541.3	92.7	-2.3	-92.7	92.7	268.6	12.0	12.0	8542.6	193.4	0.6338509	4.69 0.15846273
5	8636.84	45.40	268.59	75.66	8598.5	142.2	-3.5	-142.1	142.2	268.6	12.0	12.0	8600.4	135.6	0.79231363	4.69 0.15846273
6	8712.50	54.48	268.59	75.66	8647.1	200.0	-4.9	-200.0	200.0	268.6	12.0	12.0	8649.9	86.1	0.95077635	4.69 0.15846273
7	8788.16	63.55	268.59	75.66	8686.0	264.8	-6.5	-264.7	264.8	268.6	12.0	12.0	8689.7	46.3	1.10923908	4.69 0.15846273
8	8863.82	72.63	268.59	75.66	8714.2	335.0	-8.2	-334.9	335.0	268.6	12.0	12.0	8718.9	17.1	1.2677018	4.69 0.15846273
9	8939.48	81.71	268.59	75.66	8731.0	408.6	-10.0	-408.5	408.6	268.6	12.0	12.0	8736.7	-0.7	1.42616453	4.69 0.15846273
10	9015.14	90.79	268.59	75.66	8736.0	484.1	-11.9	-483.9	484.1	268.6	12.0	12.0	8742.6	-6.6	1.58462725	4.69 0.15846273
11	9100.00	90.79	268.59	84.861	8734.8	568.9	-14.0	-568.8	568.9	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
12	9200.00	90.79	268.59	100	8733.4	668.9	-16.4	-668.7	668.9	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
13	9300.00	90.79	268.59	100	8732.0	768.9	-18.9	-768.7	768.9	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
14	9400.00	90.79	268.59	100	8730.6	868.9	-21.3	-868.6	868.9	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
15	9500.00	90.79	268.59	100	8729.2	968.9	-23.8	-968.6	968.9	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
16	9600.00	90.79	268.59	100	8727.9	1068.9	-26.2	-1068.6	1068.9	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
17	9700.00	90.79	268.59	100	8726.5	1168.9	-28.7	-1168.5	1168.9	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
18	9800.00	90.79	268.59	100	8725.1	1268.9	-31.1	-1268.5	1268.9	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
19	9900.00	90.79	268.59	100	8723.7	1368.8	-33.6	-1368.4	1368.8	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
20	10000.00	90.79	268.59	100	8722.3	1468.8	-36.0	-1468.4	1468.8	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
21	10100.00	90.79	268.59	100	8721.0	1568.8	-38.5	-1568.4	1568.8	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
22	10200.00	90.79	268.59	100	8719.6	1668.8	-40.9	-1668.3	1668.8	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
23	10300.00	90.79	268.59	100	8718.2	1768.8	-43.4	-1768.3	1768.8	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
24	10400.00	90.79	268.59	100	8716.8	1868.8	-45.8	-1868.2	1868.8	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
25	10500.00	90.79	268.59	100	8715.4	1968.8	-48.3	-1968.2	1968.8	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
26	10600.00	90.79	268.59	100	8714.0	2068.8	-50.7	-2068.2	2068.8	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
27	10700.00	90.79	268.59	100	8712.7	2168.8	-53.2	-2168.1	2168.8	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
28	10800.00	90.79	268.59	100	8711.3	2268.8	-55.6	-2268.1	2268.8	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
29	10900.00	90.79	268.59	100	8709.9	2368.7	-58.1	-2368.0	2368.7	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
30	11000.00	90.79	268.59	100	8708.5	2468.7	-60.5	-2468.0	2468.7	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
31	11100.00	90.79	268.59	100	8707.1	2568.7	-63.0	-2568.0	2568.7	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
32	11200.00	90.79	268.59	100	8705.7	2668.7	-65.4	-2667.9	2668.7	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
33	11300.00	90.79	268.59	100	8704.4	2768.7	-67.9	-2767.9	2768.7	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
34	11400.00	90.79	268.59	100	8703.0	2868.7	-70.3	-2867.8	2868.7	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
35	11500.00	90.79	268.59	100	8701.6	2968.7	-72.8	-2967.8	2968.7	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
36	11600.00	90.79	268.59	100	8700.2	3068.7	-75.2	-3067.8	3068.7	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
37	11700.00	90.79	268.59	100	8698.8	3168.7	-77.7	-3167.7	3168.7	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
38	11800.00	90.79	268.59	100	8697.4	3268.7	-80.2	-3267.7	3268.7	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
39	11900.00	90.79	268.59	100	8696.1	3368.7	-82.6	-3367.6	3368.7	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
40	12000.00	90.79	268.59	100	8694.7	3468.6	-85.1	-3467.6	3468.6	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
41	12100.00	90.79	268.59	100	8693.3	3568.6	-87.5	-3567.6	3568.6	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
42	12200.00	90.79	268.59	100	8691.9	3668.6	-90.0	-3667.5	3668.6	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
43	12300.00	90.79	268.59	100	8690.5	3768.6	-92.4	-3767.5	3768.6	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
44	12400.00	90.79	268.59	100	8689.1	3868.6	-94.9	-3867.4	3868.6	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
45	12500.00	90.79	268.59	100	8687.8	3968.6	-97.3	-3967.4	3968.6	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
46	12600.00	90.79	268.59	100	8686.4	4068.6	-99.8	-4067.4	4068.6	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
47	12700.00	90.79	268.59	100	8685.0	4168.6	-102.2	-4167.3	4168.6	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
48	12800.00	90.79	268.59	100	8683.6	4268.6	-104.7	-4267.3	4268.6	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
49	12900.00	90.79	268.59	100	8682.2	4368.6	-107.1	-4367.2	4368.6	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
50	13000.00	90.79	268.59	100	8680.8	4468.5	-109.6	-4467.2	4468.5	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
51	13100.00	90.79	268.59	100	8679.5	4568.5	-112.0	-4567.2	4568.5	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
52	13200.00	90.79	268.59	100	8678.1	4668.5	-114.5	-4667.1	4668.5	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
53	13300.00	90.79	268.59	100	8676.7	4768.5	-116.9	-4767.1	4768.5	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
54	13400.00	90.79	268.59	100	8675.3	4868.5	-119.4	-4867.0	4868.5	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
55	13500.00	90.79	268.59	100	8673.9	4968.5	-121.8	-4967.0	4968.5	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10
56	13600.00	90.79	268.59	100	8672.5	5068.5	-124.3	-5067.0	5068.5	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69 1E-10

ATTACHMENT E

57	13700.00	90.79	268.59	100	8671.2	5168.5	-126.7	-5166.9	5168.5	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
58	13800.00	90.79	268.59	100	8669.8	5268.5	-129.2	-5266.9	5268.5	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
59	13900.00	90.79	268.59	100	8668.4	5368.5	-131.6	-5366.8	5368.5	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
60	14000.00	90.79	268.59	100	8667.0	5468.5	-134.1	-5466.8	5468.5	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
61	14100.00	90.79	268.59	100	8665.6	5568.4	-136.5	-5566.8	5568.4	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
62	14200.00	90.79	268.59	100	8664.2	5668.4	-139.0	-5666.7	5668.4	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
63	14300.00	90.79	268.59	100	8662.9	5768.4	-141.4	-5766.7	5768.4	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
64	14400.00	90.79	268.59	100	8661.5	5868.4	-143.9	-5866.6	5868.4	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
65	14500.00	90.79	268.59	100	8660.1	5968.4	-146.4	-5966.6	5968.4	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
66	14600.00	90.79	268.59	100	8658.7	6068.4	-148.8	-6066.6	6068.4	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
67	14700.00	90.79	268.59	100	8657.3	6168.4	-151.3	-6166.5	6168.4	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
68	14800.00	90.79	268.59	100	8655.9	6268.4	-153.7	-6266.5	6268.4	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
69	14900.00	90.79	268.59	100	8654.6	6368.4	-156.2	-6366.5	6368.4	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
70	15000.00	90.79	268.59	100	8653.2	6468.4	-158.6	-6466.4	6468.4	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
71	15100.00	90.79	268.59	100	8651.8	6568.3	-161.1	-6566.3	6568.3	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
72	15200.00	90.79	268.59	100	8650.4	6668.3	-163.5	-6666.3	6668.3	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
73	15300.00	90.79	268.59	100	8649.0	6768.3	-166.0	-6766.3	6768.3	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
74	15400.00	90.79	268.59	100	8647.6	6868.3	-168.4	-6866.3	6868.3	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
75	15500.00	90.79	268.59	100	8646.3	6968.3	-170.9	-6966.2	6968.3	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
76	15600.00	90.79	268.59	100	8644.9	7068.3	-173.3	-7066.2	7068.3	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
77	15700.00	90.79	268.59	100	8643.5	7168.3	-175.8	-7166.1	7168.3	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
78	15800.00	90.79	268.59	100	8642.1	7268.3	-178.2	-7266.1	7268.3	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
79	15900.00	90.79	268.59	100	8640.7	7368.3	-180.7	-7366.1	7368.3	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
80	16000.00	90.79	268.59	100	8639.4	7468.3	-183.1	-7466.0	7468.3	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
81	16100.00	90.79	268.59	100	8638.0	7568.3	-185.6	-7566.0	7568.3	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
82	16200.00	90.79	268.59	100	8636.6	7668.2	-188.0	-7665.9	7668.2	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
83	16300.00	90.79	268.59	100	8635.2	7768.2	-190.5	-7765.9	7768.2	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
84	16400.00	90.79	268.59	100	8633.8	7868.2	-192.9	-7865.9	7868.2	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
85	16500.00	90.79	268.59	100	8632.4	7968.2	-195.4	-7965.8	7968.2	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
86	16600.00	90.79	268.59	100	8631.1	8068.2	-197.8	-8065.8	8068.2	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
87	16700.00	90.79	268.59	100	8629.7	8168.2	-200.3	-8165.7	8168.2	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
88	16800.00	90.79	268.59	100	8628.3	8268.2	-202.7	-8265.7	8268.2	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
89	16900.00	90.79	268.59	100	8626.9	8368.2	-205.2	-8365.7	8368.2	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
90	17000.00	90.79	268.59	100	8625.5	8468.2	-207.7	-8465.6	8468.2	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
91	17100.00	90.79	268.59	100	8624.1	8568.2	-210.1	-8565.6	8568.2	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
92	17200.00	90.79	268.59	100	8622.8	8668.1	-212.6	-8665.5	8668.1	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
93	17300.00	90.79	268.59	100	8621.4	8768.1	-215.0	-8765.5	8768.1	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
94	17400.00	90.79	268.59	100	8620.0	8868.1	-217.5	-8865.5	8868.1	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
95	17500.00	90.79	268.59	100	8618.6	8968.1	-219.9	-8965.4	8968.1	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
96	17600.00	90.79	268.59	100	8617.2	9068.1	-222.4	-9065.4	9068.1	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
97	17700.00	90.79	268.59	100	8615.8	9168.1	-224.8	-9165.3	9168.1	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
98	17800.00	90.79	268.59	100	8614.5	9268.1	-227.3	-9265.3	9268.1	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
99	17900.00	90.79	268.59	100	8613.1	9368.1	-229.7	-9365.3	9368.1	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
100	18000.00	90.79	268.59	100	8611.7	9468.1	-232.2	-9465.2	9468.1	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
101	18100.00	90.79	268.59	100	8610.3	9568.1	-234.6	-9565.2	9568.1	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
102	18200.00	90.79	268.59	100	8608.9	9668.1	-237.1	-9665.1	9668.1	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
103	18300.00	90.79	268.59	100	8607.5	9768.0	-239.5	-9765.1	9768.0	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
104	18400.00	90.79	268.59	100	8606.2	9868.0	-242.0	-9865.1	9868.0	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
105	18500.00	90.79	268.59	100	8604.8	9968.0	-244.4	-9965.0	9968.0	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
106	18600.00	90.79	268.59	100	8603.4	10068.0	-246.9	-10065.0	10068.0	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
107	18700.00	90.79	268.59	100	8602.0	10168.0	-249.3	-10164.9	10168.0	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10
108	18768.65	90.79	268.59	68.649	8601.1	10236.6	-251.0	-10233.6	10236.6	268.6	0.0	0.0	8742.6	-6.6	1.58462725	4.69	1E-10

A
W

COG OPERATING LIMITED LIABILITY CORP
HURL STATE COM 1
30015363930000
660 FULJ660 FEL
TWP: 18 S - Range: 16 E - Sec. 10

13666 ft

COG OPERATING LIMITED LIABILITY CORP
OXY FREDIE FEDERAL 1
30015323470000
660 FULJ660 FEL
TWP: 18 S - Range: 16 E - Sec. 10

10258 ft

JPM ENERGY LIMITED LIABILITY CORPORA
SHUGART WEST 13 FEDERAL 1
30015335770000
660 FULJ660 FEL
TWP: 18 S - Range: 16 E - Sec. 10

A'
E

130

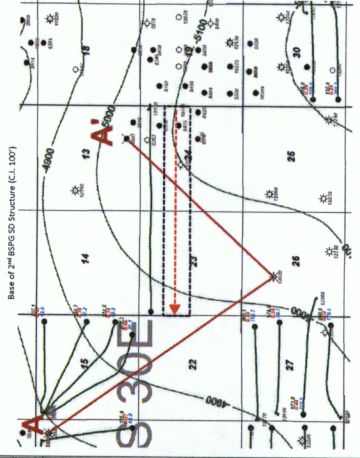
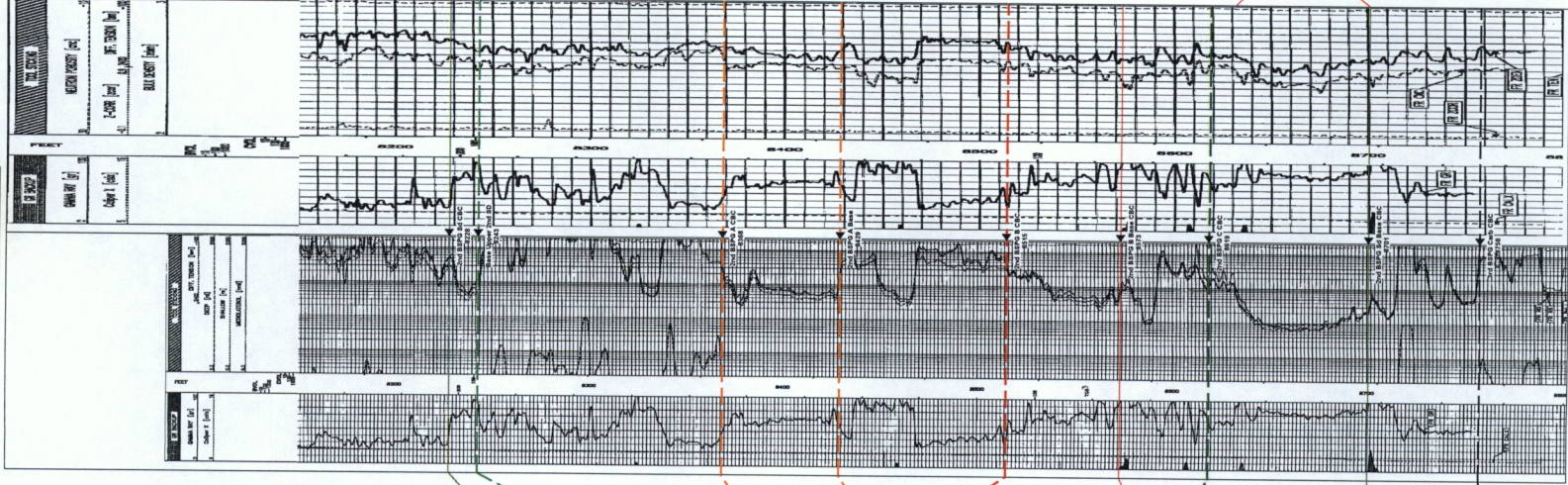
26F

16A

Top 2nd
BSPG
SD
500

Lower
2nd
BSPG
SD
0

3rd
BSPG
Carb
0



Virgo 24/23 B2HE Fed Com 1H
Cross Section Exhibit (A-A')