

EXHIBIT

ATS-16-560

NM OIL CONSERVATION

ARTESIA DISTRICT

MAY 16 2016

Form 3160-3 (March 2012)

FORM APPROVED OMB No. 1004-0137 Expires October 31, 2014

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. NMNM19606, NMNM56426 & State

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No. Pavo Macho 31/32 B2DA Fed Com #1H

9. API Well No. 30-015-43787

10. Field and Pool, or Exploratory & Palmillo East Bone Spring Oil 49553

11. Sec., T. R. M. or Blk. and Survey or Area Sec 31 T18S R29E

12. County or Parish Eddy 13. State NM

1a. Type of work: [X] DRILL [] REENTER

1b. Type of Well: [X] Oil Well [] Gas Well [] Other [X] Single Zone [] Multiple Zone

2. Name of Operator Mewbourne Oil Company

3a. Address PO Box 5270 Hobbs, NM 88241

3b. Phone No. (include area code) 575-390-6838

4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 660' FNL & 185' FWL, Sec 31 T18S R29E At proposed prod. zone 990' FNL & 330' FEL, Sec 32 T18S R29E

14. Distance in miles and direction from nearest town or post office* 22 miles NE of Carlsbad, NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) 185

16. No. of acres in lease NMNM19606 - 80 NMNM56426 - 1046.15

17. Spacing Unit dedicated to this well 312.51

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 330' - Silvey Fed #1

19. Proposed Depth 7,692' - TVD 17,160 - MD

20. BLM/BIA Bond No. on file NM1693 nationwide, NMB-000919

21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3418' - GL

22. Approximate date work will start* 03/22/2016

23. Estimated duration 60 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). 4. Bond to cover the operations unless covered by an existing bond on file (see item 20 above). 5. Operator certification 6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature [Signature]

Name (Printed/Typed) Bradley Bishop

Date 1-22-16

Approved by (Signature) /s/George MacDonell

Name (Printed/Typed)

Date MAY 12 2016

Title FIELD MANAGER

Office CARLSBAD FIELD OFFICE

Application approval does not warrant conduct operations thereon. Conditions of approval, if any, are:

EXHIBIT 2

use rights in the subject lease which would entitle the applicant to

APPROVAL FOR TWO YEARS

ly and willfully to make to any department or agency of the United institution.

(Continued on page 2)

*(Instructions on page 2)

Capitan Controlled Water Basin

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached

closed loop system

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

RECEIVED AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-43787	² Pool Code 49553	³ Pool Name PALMILLO EAST BONE SPRING, OIL
⁴ Property Code 316225	⁵ Property Name PAVO MACHO 31/32 B2DA FED COM	
⁷ OGRID NO. 14744	⁸ Operator Name MEWBOURNE OIL COMPANY	⁶ Well Number 1H
		⁹ Elevation 3418'

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
1 D	31	18S	29E		660	NORTH	185	WEST	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
A	32	18S	29E		990	NORTH	330	EAST	EDDY

¹² Dedicated Acres 312.51	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>16</p> <p>GEODETIC DATA NAD 27 GRID - NM EAST</p> <p>SURFACE LOCATION N: 621788.5 - E: 563388.0 LAT: 32.70921385° N LONG: 104.12074838° W</p> <p>BOTTOM HOLE N: 621495.8 - E: 575184.0 LAT: 32.70835114° N LONG: 104.08890282° W</p>	<p>CORNER DATA NAD 27 GRID - NM EAST</p> <p>A: FOUND BRASS CAP "1916" N: 617454.7 - E: 565188.6</p> <p>B: FOUND BRASS CAP "1916" N: 622447.7 - E: 565205.0</p> <p>C: FOUND BRASS CAP "1916" N: 622456.4 - E: 567594.8</p> <p>D: FOUND BRASS CAP "1916" N: 622466.3 - E: 570235.1</p> <p>E: FOUND BRASS CAP "1916" N: 622476.3 - E: 572872.8</p>	<p>F: FOUND BRASS CAP "1916" N: 622486.9 - E: 575510.9</p> <p>G: CALCULATED CORNER N: 617365.0 - E: 575526.2</p> <p>H: FOUND 1/2" REBAR N: 617378.0 - E: 570250.1</p> <p>I: FOUND 1/2" REBAR N: 617422.6 - E: 567609.1</p> <p>J: FOUND BRASS CAP "1916" N: 619825.8 - E: 570241.6</p>	<p>17 OPERATOR CERTIFICATION</p> <p>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 as 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><i>[Signature]</i> 1-22-16 Date Signature GLADY BISHOP Printed Name E-mail Address</p>
			<p>18 SURVEYOR CERTIFICATION</p> <p>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>7-20-2015 Date of Survey Signature and Seal of Professional Surveyor <i>[Signature]</i> 19680 Certificate Number REVISED - 1 DEC 2015 BH & NAME</p>

CASE NO. 15886
PAVO MACHO 31/32 B2DA Fed. Com #1H and
N/2N/2 Section 31 and N/2N/2 Section 32, T18S, R29E
Eddy County, New Mexico

7500/260

TRACT OWNERSHIP

Tract No. 1: Federal Lease NMNM 56426:

Lot 1 (NW/4NW/4), NE/4NW/4 and NE/4NE/4 of Section 31, containing 112.51 acres m/l.

Southwest Royalties, Inc.	75%
Mewbourne Oil Company	<u>25%</u>
	100%

Tract No. 2: Federal Lease NMNM 137448:

NW/4NE/4 of Section 31, containing 40 acres, m/l.

Calm Fort Worth Ventures, LLC	84.00%
1119 Oil & Gas, LLC	10.00%
SNW Permian, LLC	3.75%
Goldfinger Oil & Gas, LLC	1.25%
Una Oreja, LLC	0.50%
Nonnortootie, LLC	<u>0.50%</u>
	100.00%

Tract No. 3: State Lease B-4918:

NE/4NE/4 of Section 32, containing 40 acres, m/l.

EOG Y Resources, Inc.	100%
-----------------------	------

Tract No. 4: State Lease K-4795:

NW/4NE/4 and NE/4NW/4 of Section 32, containing 80 acres, m/l.

Mewbourne Oil Company	94.3750%
OXY USA WTP Limited Partnership	2.8125%
Cimarex Energy Co.	<u>2.8125%</u>
	100.00%

Tract No. 5: State Lease L-6518:

NW/4NW/4 of Section 32, containing 40 acres, m/l.

Magnum Hunter Production	100%
--------------------------	------

EXHIBIT 3

Contractual Ownership under Operating Agreement dated September 15, 2017, covering the N/2 of Section 31 and N/2 of Section 32, T18S, R29E, covering 625.17 acres, m/l between Mewbourne Oil Company as Operator and Magnum Hunter Production, Inc., et al as Non-Operators:

Mewbourne Oil Company	47.210200%	
*Southwest Royalties, Inc.	20.078700%	- New operating agreement
Magnum Hunter Production, Inc.	19.194780%	
EOG Y Resources, Inc.	<u>6.398260%</u>	- EOG is only party to be pooled
CALM Fort Worth Ventures, LLC	5.3745383%	
1119 Oil & Gas, LLC	0.6398260%	
OXY USA WTP Limited Partnership	0.359900%	
Cimarex Energy Co.	0.359900%	
SNW Permian, LLC	0.2399348%	
Goldfinger Oil & Gas, LLC	0.0799783%	
Una Oreja, LLC	0.0319913%	
Nonnortootie, LLC	<u>0.0319913%</u>	
	100.000000%	

*Southwest Royalties, Inc.'s interest is subject to the terms and conditions of that certain unrecorded Operating Agreement dated July 15, 2016 between Mewbourne Oil Company as Operator and Southwest Royalties, Inc., et al, as Non-Operators, covering the N/2 of Section 31 except for the NW/4NE/4 of Section 31 and the N/2 of Section 32, T18S, R29E, Eddy County, New Mexico, among other lands.

SUMMARY OF COMMUNICATIONS
CASE NO. 15886
PAVO MACHO 31/32 B2DA Fed. Com #1H
N/2N/2 Section 31 and N/2N/2 Section 32, T18S, R29E
Eddy County, New Mexico

EOG Y Resources, Inc. – Contact: Mr. Chuck Moran
(432)686-3684; email: Charles_Moran@eogresources.com

12-7-2015: Proposed Working Interest Unit (WIU) to Yates Petroleum Corporation (EOG's successor in interest) with AFE for the Pavo Macho 31/32 B2EH Fed. Com #1H Well (the initial well in the WIU) with proposed Operating Agreement dated December 1, 2015. This Operating Agreement was never executed by Yates.

8-17-2017: Sent EOG (Chuck Moran) an email advising him a well proposal for the initial well was mailed to him on 8-16-2017.

9-4-2017: Follow up email to Chuck regarding our proposed well.

10-4-2017: Mailed Chuck proposed Operating Agreement dated September 15, 2017 covering the N/2 of Section 31 and N/2 of Section 32, covering the Bone Spring formation.

10-16-2017: Mailed Chuck a copy of our Drilling Title Opinion dated October 11, 2017, covering our WIU.

11-27-2017: Follow up email to Chuck regarding our upcoming pooling cases.

11-28-2017: Phone call with Chuck and Clay Haggard regarding a proposed acreage trade covering their 40 acres in the NE/4NE/4 of Section 32 (Federal Lease B-4918) for 40 acres of Mewbourne's acreage in the S/2 of Section 32, T23S, R28E, Eddy County, New Mexico. Currently waiting on EOG's management approval for our proposed acreage trade.



MEWBOURNE OIL COMPANY

500 W. TEXAS, SUITE 1020
MIDLAND, TEXAS 79701

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

December 7, 2015

Via Certified Mail

Yates Petroleum Corporation
105 South Fourth Street
Artesia, New Mexico 88210
Attn: Mrs. Janet Richardson

Re: Pavo Macho 31/32 B2EH Fed Com #1H
1980' FNL & 185' FWL (SL) (Section 31)
2310' FNL & 330' FEL (BHL) (Section 32)
Section 31/32, T18S, R29E
Eddy County, New Mexico

Ladies and Gentlemen:

Mewbourne Oil Company ("Mewbourne") as Operator hereby proposes to form a 625.17 acre Working Interest Unit ("WIU") covering the N/2 of the captioned Section 31 and the N/2 of the captioned Section 32 for oil and gas production. The targeted interval for the proposed unit is the Bone Spring formation. Apparently Yates Petroleum Corporation ("Yates") owns 100% interest in the NE/4NE/4 (40.00 gross acres) of the captioned Section 32. Accordingly, Yates would own 6.398260% working interest in the proposed WIU (100% interest X 40.00 net acres / 625.17 gross acres = 6.398260% interest in the WIU).

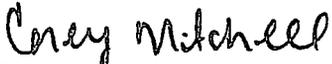
Mewbourne Oil Company ("Mewbourne") as Operator hereby proposes to drill the captioned well at the above referenced surface location (SL) to the referenced bottom hole location (BHL). The proposed well will be drilled to an approximate true vertical depth (TVD) of 7,700 feet subsurface to evaluate the Second Bone Spring Sand in the Bone Spring Formation. The proposed well will have a measured depth (MD) of approximately 17,900 feet. The S/2N/2 of the captioned Section 31 and the S/2N/2 of the captioned Section 32 will be dedicated to the well as the oil proration unit.

Regarding the above, enclosed for your further handling is our AFE dated October 30, 2015 for the captioned proposed well. Also, enclosed is a copy of our proposed Operating Agreement dated December 1, 2015 and an extra set of signature pages. In the event your firm elects to participate in the proposed well, please execute the enclosed AFE and extra set of signature pages and return to me within thirty (30) days.

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

Sincerely,

MEWBOURNE OIL COMPANY


Corey Mitchell
Landman

Paul Haden

From: Paul Haden
Sent: Thursday, August 17, 2017 8:11 AM
To: 'charles_Moran@eogresources.com'
Subject: Re: Pavo Frio 31/32 B2EH Fed Com #1H
Attachments: 20170817090210437.pdf

Chuck , to give you a heads up , see attached well proposal with AFE . Yates Petroleum owned a full interest in State Lse B-4918 below a depth of 2,110' in the NE/4NE/4 of Section 31 , T18S , R29E . Mewbourne plans to drill 2 2nd Bone Spring horizontal wells in the N/2 Sec 31 and N/2 Sec 32 . The captioned well which is the Initial Well in the proposed WIU is scheduled to spud in mid October . I'll send you our proposed JOA soon . Let me know if you have any questions .Thanks Chuck .

Paul Haden
Land Department
Mewbourne Oil Company
500 West Texas Ave., Suite 1020
Midland, TX 79701-4279
Office Phone: 432-682-3715
Fax: 432-685-4170
Cell: 432-557-2521

-----Original Message-----

From: Paul Haden [<mailto:phaden@mewbourne.com>]
Sent: Thursday, August 17, 2017 8:02 AM
To: Paul Haden
Subject: Message from "Ricoh-MP-C6003-MID-2"

This E-mail was sent from "Ricoh-MP-C6003-MID-2" (MP C6003).

Scan Date: 08.17.2017 09:02:10 (-0400)

MEWBOURNE OIL COMPANY

500 W. TEXAS, SUITE 1020
MIDLAND, TEXAS 79701

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

August 16, 2017

Via Certified Mail

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

Re: Pavo Macho 31/32 WIU
N/2 Section 31 and N/2 Section 32
T18S, R29E
Eddy County, New Mexico

Gentlemen:

Mewbourne Oil Company ("Mewbourne") as Operator proposes to drill multiple horizontal wells under the captioned land for Bone Spring oil production and proposes to form a 640 acre Working Interest Unit (WIU) regarding same. According to public records, the EOG Y Resources, Inc. ("EOG") owns a full leasehold interest in the NE/4NE/4 of the captioned Section 32. Accordingly, EOG owns a 6.39826% interest in the proposed WIU.

In reference to the above, Mewbourne proposes to drill the Pavo Macho 31/32 B2EH Federal Com #1H Well at a surface location 1980' FNL & 185' FWL of the captioned Section 31 and drill same horizontally to a terminus point 2310' FNL & 330' FEL of the captioned Section 32 being the bottom hole location. The referenced well will be drilled at the referenced surface location vertically to a true vertical depth of approximately 7,696 feet beneath the surface in the Bone Spring formation and drilled therefrom horizontally from a westerly direction to an easterly direction in the Second Bone Spring Sand interval in the Bone Spring formation for oil and gas production. The proposed initial well will be drilled to a true measured depth of approximately 17,180 feet to the above referenced bottom hole location. The S/2N/2 of Section 31 and S/2N/2 of Section 32 will be dedicated to the well as its nonstandard proration unit and project area.

Enclosed for EOG's consideration is our AFE dated June 29, 2017 prepared for EOG's signature should EOG elect to participate in the proposed initial well and WIU. In the event EOG elects not to participate in the proposed well, Mewbourne offers to purchase a two year Term Assignment of Operating Rights for \$2,500 per net acre providing Mewbourne a 75% net revenue interest.

Regarding the above, please sign and return the enclosed AFE to me in the enclosed postage paid envelope should EOG elect to participate in the proposed well. Upon receipt of same, I will forward you our Operating Agreement for execution. The proposed Operating Agreement will be limited in depth as to the Bone Spring formation.

Should you have any questions regarding the above, please call me at (432) 682-3715 or if by email, my email address is phaden@mewbourne.com

Sincerely yours,

MEWBOURNE OIL COMPANY

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

D. Paul Haden
Senior Landman
DPH/ak

Paul Haden

From: Paul Haden
Sent: Thursday, September 14, 2017 9:25 AM
To: 'Charles_Moran@eogresources.com'
Cc: Natalie Madden Stephens
Subject: Re: Pavo Macho 31/32 WIU

Chuck , we currently are having a Drilling Opinion rendered for the captioned WIU covering the N/2 Sec 31 and N/2 Sec 32 , T18S , R29E . Please forward me a copy of the Unit Operating Agreement for the West Loco Hills Grayburg Unit which apparently is operated by EOG Y Resources so that we can confirm that Tracts 1-43 in T18S , R29E and T18S , R30E are not in our referenced lands . I'm 99.9% sure they are not but I need to confirm . EOG Y Resources owns a WI in our proposed WIU by virtue of the Yates 100%WI in Lease B-4918 covering rights below 2,110' in the NE/4NE/4 Sec 32 . I proposed the Pavo Macho 31/32 B2EH Fed Com #1H well to EOG via letter dated Aug 16 , 2017 FYI .

Paul Haden

Land Department

 **Mewbourne Oil Company**

500 West Texas Ave., Suite 1020

Midland, TX 79701-4279

Office Phone: 432-682-3715

Fax: 432-685-4170

Cell: 432-557-2521

MEWBOURNE OIL COMPANY

500 W. TEXAS, SUITE 1020
MIDLAND, TEXAS 79701

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

October 4, 2017

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

Re: Pavo Macho 31/32 WIU
N/2 Section 31 and N/2 Section 32,
T18S, R29E
Eddy County, New Mexico

Dear Chuck:

Regarding the proposed WIU and the proposed Pavo Macho 31/32 B2DA Fed Com #1H Well, enclosed for your further handling are the following:

- 1) Operating Agreement dated September 15, 2017.
- 2) Memorandum of Operating Agreement dated September 15, 2017.
- 3) . Signature and Acknowledgment pages of the JOA, GBA and Memorandum of Operating Agreement prepared for Magnum Hunter's and Cimarex's execution.

Regarding the above, please have the enclosed signature and acknowledgment pages of the September 15, 2017 JOA, GBA and Recording Supplement executed and returned to me at your very earliest convenience as the referenced proposed well is scheduled to spud in late October, 2017.

Sincerely yours,

MEWBOURNE OIL COMPANY



D. Paul Haden
Senior Landman

DPH/ak

MEWBOURNE OIL COMPANY

500 W. TEXAS, SUITE 1020
MIDLAND, TEXAS 79701

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

October 16, 2017

EOG Y Resources, Inc.
5509 Champions Drive
Midland, Texas 79706
Attn: Mr. Chuck Moran

Re: Pavo Macho 31/32 WIU
N/2 Section 31, N/2 Section 32
T18S, R29E
Eddy County, New Mexico

Dear Chuck:

Regarding the captioned WIU, enclosed for your information and file is a copy of our Drilling Title Opinion dated October 11, 2017. Also enclosed for your further handling is revised Exhibit "A" to the Operating Agreement dated September 15, 2017, revised Exhibit "A" to Exhibit "H" of the Operating Agreement and revised Exhibit "A" to the Recording Supplement. Please substitute these pages for the ones currently in your possession.

Regarding the above, Mewbourne Oil Company (Mewbourne) previously proposed drilling the Pavo Macho 31/32 B2EH Fed. Com #1H Well to be drilled in the S/2N/2 of the captioned Sections (see enclosed copy of letter dated August 16, 2017 with a copy of the AFE). To date EOG Y Resources, Inc. has not responded to this well proposal.

Regarding the above, Mewbourne as Operator proposes to drill the Pavo Macho 31/32 B2AD Fed. Com #1H Well at a surface location 660' FNL & 185' FWL of the captioned Section 31 and drill same horizontally to a terminus point 990' FNL & 330' FEL of the captioned Section 32 being the bottom hole location. The referenced well will be drilled at the referenced surface location vertically to a true vertical depth of approximately 7,692 feet beneath the surface in the Bone Spring formation and drilled therefrom horizontally from a westerly direction to an easterly direction in the Second Bone Spring Sand interval in the Bone Spring formation for oil and gas production. The proposed well will be drilled to a true measured depth of approximately 17,164 feet to the above referenced bottom hole location. The N/2N/2 of Section 31 and N/2N/2 of Section 32 will be dedicated to the well as its nonstandard proration unit and project area.

Regarding the above, please have the enclosed AFEs signed and returned to me with the executed signature pages of the referenced Operating Agreement, Gas Balancing Agreement and Recording Supplement in the event EOG Y Resources, Inc. elects to participate in the proposed WIU and wells.

In the event EOG Y Resources, Inc. elects not to participate in the proposed wells, Mewbourne hereby offers to purchase a Term Assignment from EOG Y Resources, Inc. on the basis of \$2,500 per net acre, for a two year primary term providing Mewbourne with a 75% net revenue interest as to EOG's Bone Spring rights in the NE/4NE/4 of the captioned Section 32.

Please be advised, Mewbourne will be filing an Application for Compulsory Pooling with the NMOCD in the near future in order for Mewbourne to be able to drill the referenced wells in a timely manner. Should you have any questions regarding the above, please call me.

Sincerely yours,

MEWBOURNE OIL COMPANY

A handwritten signature in black ink, appearing to read "D. Paul Haden". The signature is fluid and cursive, with the first name "D." being small and the last name "Haden" being larger and more prominent.

D. Paul Haden
Senior Landman
DPH/ak

Paul Haden

From: Paul Haden
Sent: Monday, November 27, 2017 10:50 AM
To: 'Charles_Moran@eogresources.com'
Subject: Re: Pooling Cases 15856 and 15687 - Pavo Macho 31/32 Wells

Chuck we have the referenced pooling cases coming up this week regarding the 2 proposed Bone Spring horizontal wells in the N/2 Sec 31 and N/2 Sec 32 , T18S , R29E whereby EOG Y Resources has a 6.398260% unit WI . Any word yet on EOG's participation in these wells ? We'll dismiss EOG if and when we see some signed AFEs and signed JOA . Sorry we had to name EOG , but we had to move forward . The Pavo 31/32 B2EH Fed Com #1H well is currently drilling . Let me know if EOG decides to join . Thanks Chuck .

Paul Haden

Land Department

 **Mewbourne Oil Company**

500 West Texas Ave., Suite 1020

Midland, TX 79701-4279

Office Phone: 432-682-3715

Fax: 432-685-4170

Cell: 432-557-2521

MEWBOURNE OIL COMPANY
AUTHORIZATION FOR EXPENDITURE

Well Name: Pavo Macho 31/32 B2DA Fed Com #1H Prospect: 2nd Bone Spring
 Location: SHL: 660 FNL & 185 FWL(31); BHL: 990 FNL & 330 FEL(32) County: Eddy ST: NM
 Sec. 31 Blk: Survey: TWP: 18S RNG: 29E Prop. TVD: 7692 TMD: 17164'

INTANGIBLE COSTS 0180		CODE	TCP	CODE	CC
Regulatory Permits & Surveys		0180-0100	\$15,000	0180-0200	\$5,000
Location / Road / Site / Preparation		0180-0105	\$75,000	0180-0205	\$10,000
Location / Restoration		0180-0106	\$200,000	0180-0206	\$15,000
Daywork / Turnkey / Footage Drilling	22 days drlg / 4 days comp @ \$19,000/d	0180-0110	\$444,200	0180-0210	\$80,800
Fuel	1500 gal/day @ \$1.89/gal	0180-0114	\$78,400		
Mud, Chemical & Additives		0180-0120	\$150,000	0180-0220	
Horizontal Drillout Services				0180-0222	\$200,000
Cementing		0180-0125	\$45,000	0180-0225	\$30,000
Logging & Wireline Services		0180-0130	\$2,500	0180-0230	\$292,000
Casing / Tubing / Snubbing Service	Coil Tbg/Toe Prep	0180-0134	\$20,000	0180-0234	\$60,000
Mud Logging		0180-0137	\$25,000		
Stimulation	48 Stg 18.7 MM gal x 18.7 MM #			0180-0241	\$3,450,000
Stimulation Rentals & Other				0180-0242	\$150,000
Water & Other		0180-0145	\$40,000	0180-0245	\$600,000
Bits		0180-0148	\$75,000	0180-0248	\$4,000
Inspection & Repair Services		0180-0150	\$40,000	0180-0250	\$5,000
Misc. Air & Pumping Services		0180-0154		0180-0254	\$5,000
Testing & Flowback Services		0180-0158	\$15,000	0180-0258	\$30,000
Completion / Workover Rig				0180-0260	\$11,000
Rig Mobilization		0180-0164	\$160,000		
Transportation		0180-0165	\$25,000	0180-0265	\$12,000
Welding Services		0180-0168	\$5,000	0180-0268	\$5,000
Contract Services & Supervision		0180-0170		0180-0270	\$36,000
Directional Services	Includes Vertical control	0180-0175	\$170,000		
Equipment Rental		0180-0180	\$152,000	0180-0280	\$40,000
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	\$1,000
Damages		0180-0190		0180-0290	
ROW & Easements		0180-0192		0180-0292	
Pipeline Interconnect				0180-0293	
Company Supervision		0180-0195	\$111,400	0180-0295	\$98,400
Overhead Fixed Rate		0180-0196	\$10,000	0180-0296	\$20,000
Well Abandonment		0180-0198		0180-0298	
Contingencies	10% (TCP) 10% (CC)	0180-0199	\$187,700	0180-0299	\$516,000
TOTAL			\$2,064,500		\$5,676,200

TANGIBLE COSTS 0181		CODE	TCP	CODE	CC
Casing (19.1" - 30")		0181-0793			
Casing (10.1" - 19.0")	415' - 13 3/8" 54.5# J-55 ST&C @ \$35.71/ft	0181-0794	\$15,800		
Casing (8.1" - 10.0")	1125' - 9 5/8" 36# J-55 LT&C @ \$24.85/ft	0181-0795	\$29,800		
Casing (6.1" - 8.0")	7873' - 7" 29# P-110 LT&C @ \$27.76/ft	0181-0796	\$232,300		
Casing (4.1" - 6.0")	10093' - 4 1/2" 13.5# P-110 BPN @ \$13.66/ft			0181-0797	\$146,500
Tubing (2" - 4")	7090' - 2 7/8" 6.5# L-80 EUE 8rd @ \$4.55/ft			0181-0798	\$34,300
Drilling Head		0181-0860	\$40,000		
Tubing Head & Upper Section				0181-0870	\$30,000
Horizontal Completion Tools				0181-0871	\$44,000
Sucker Rods				0181-0875	
Subsurface Equipment				0181-0880	
Artificial Lift Systems Gas Valves				0181-0884	\$15,000
Pumping Unit				0181-0885	
Surface Pumps & Prime Movers				0181-0886	
Tanks - Oil	2- 500 bbl			0181-0890	\$25,000
Tanks - Water				0181-0891	
Separation / Treating Equipment	36"x15"x1000# 3 ph & 30"x10"x1000# 3 ph			0181-0895	\$28,000
Heater Treaters, Line Heaters	6'x20'x75# HT			0181-0897	\$15,000
Metering Equipment				0181-0898	\$12,000
Line Pipe & Valves - Gathering				0181-0900	\$10,000
Fittings / Valves & Accessories				0181-0906	\$20,000
Cathodic Protection				0181-0908	\$4,000
Electrical Installation				0181-0909	
Equipment Installation				0181-0910	\$20,000
Pipeline Construction				0181-0920	
TOTAL			\$317,900		\$403,800
SUBTOTAL			\$2,382,400		\$6,080,000

EXHIBIT 5

TOTAL WELL COST		\$8,462,400	
------------------------	--	--------------------	--

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: R. Terrell Date: 6/28/2017
 Company Approval: *m. whitton* Date: 6/29/2017

Joint Owner Interest: _____ Amount: _____
 Joint Owner Name: _____ Signature: _____

JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

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

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

jamesbruce@aol.com

November 9, 2017

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

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

Attention: Chuck Moran

Ladies and gentlemen:

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

1. Case No. 15886, for compulsory pooling, regarding the Pavo Macho 31/32 B2DA Fed. Com. Well No. 1H, a Bone Spring well in the N/2N/2 of Section 31 and N/2N/2 of Section 32; and
2. Case No. 15887, for compulsory pooling, regarding the Pavo Macho 31/32 B2EH Fed. Com. Well No. 1H, a Bone Spring well in the S/2N/2 of Section 31 and S/2N/2 of Section 32,

both in Township 18 South, Range 29 East, NMPM, Eddy County, New Mexico.

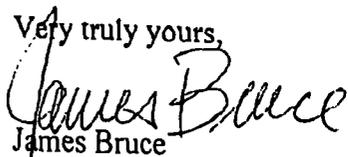
These matters are scheduled for hearing at 8:15 a.m. on Thursday, November 30, 2017, in Porter Hall at the Division's offices at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest who may be affected by the applications, 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, November 23, 2017. 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

ATTACHMENT **A**

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.

Very truly yours,

A handwritten signature in cursive script that reads "James Bruce". The signature is written in dark ink and is positioned above the printed name.

James Bruce

Attorney for Mewbourne Oil Company

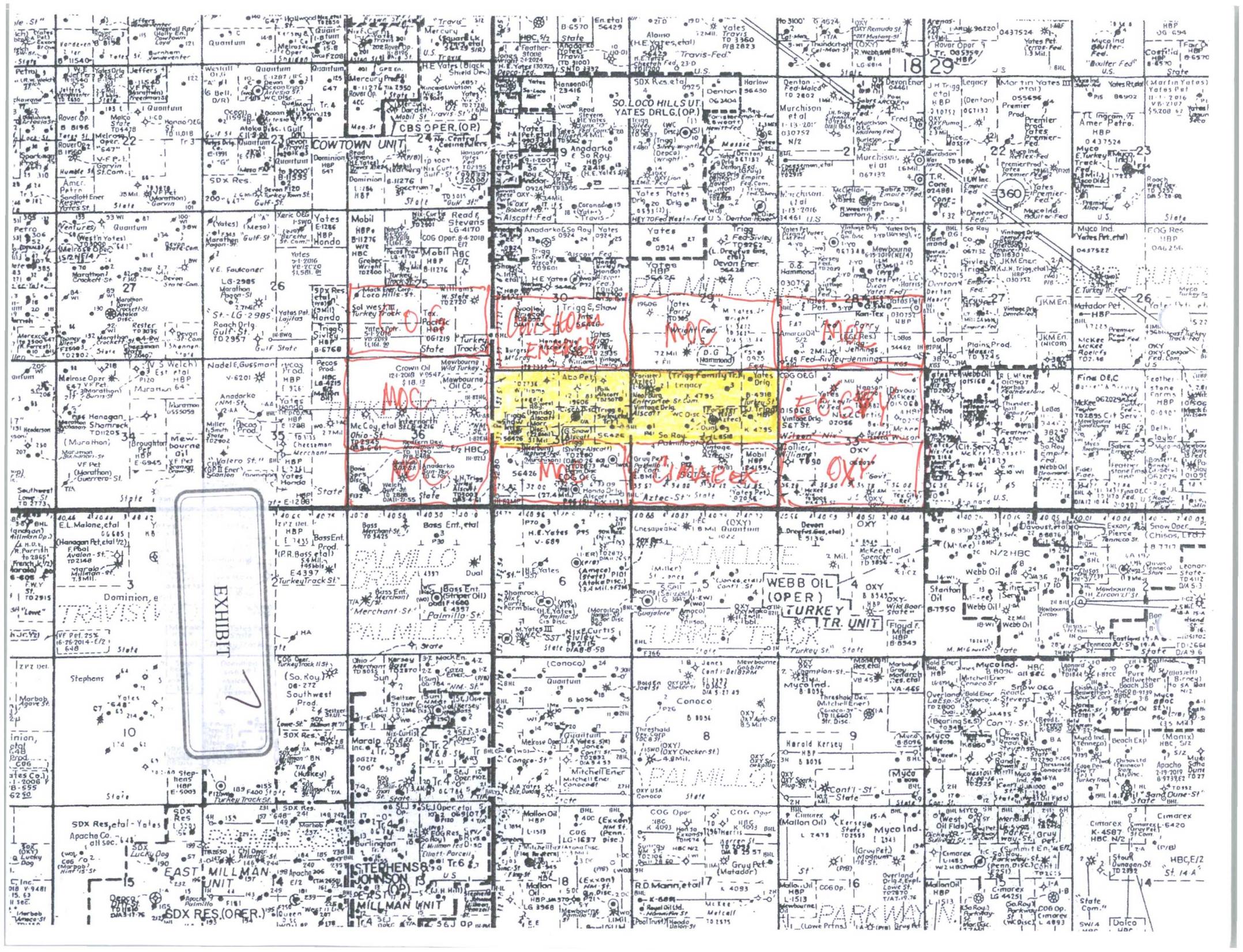
7017 0190 0000 8401 8466

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®	
OFFICIAL USE	
Certified Mail Fee \$ _____	Postmark Here
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$ _____	
<input type="checkbox"/> Return Receipt (electronic) \$ _____	
<input type="checkbox"/> Certified Mail Restricted Delivery \$ _____	
<input type="checkbox"/> Adult Signature Required \$ _____	
<input type="checkbox"/> Adult Signature Restricted Delivery \$ _____	
Postage \$ _____	
Total Postage and Fees \$ _____	
Sent To EOG Y Resources, Inc.	
Street and Apt. No., or PO Box 5509 Champions Drive	
City, State, ZIP+4® Midland, Texas 79706	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

SENDER: COMPLETE THIS SECTION
<ul style="list-style-type: none"> 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: <div style="text-align: center;"> EOG Y Resources, Inc. 5509 Champions Drive Midland, Texas 79706 </div>
2. Article Number (Transfer from service label) 9590 9402 3019 7124 7118 20

COMPLETE THIS SECTION ON DELIVERY	
A. Signature <input checked="" type="checkbox"/> <i>Robert Force</i>	<input type="checkbox"/> Agent <input type="checkbox"/> Addressee
B. Received by (Printed Name) <i>R. Force</i>	C. Date of Delivery <i>11-14-17</i>
D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	

3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Mail Restricted Delivery (00)	<input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery
Article Number (Transfer from service label) 7017 0190 0000 8401 8466	Domestic Return Receipt <i>M-PM-fp</i>



EXHIBIT

COWTOWN UNIT

CBS OPER (OR)

SO. LOCO HILLS UNIT

WESHORA ENERGY

MAC

10-51

11-52

12-53

13-54

14-55

15-56

16-57

17-58

18-59

19-60

20-61

21-62

22-63

23-64

24-65

25-66

26-67

27-68

28-69

29-70

30-71

31-72

32-73

33-74

34-75

35-76

36-77

37-78

38-79

39-80

40-81

41-82

42-83

43-84

44-85

45-86

46-87

47-88

48-89

49-90

50-91

51-92

52-93

53-94

54-95

55-96

56-97

57-98

58-99

59-100

60-101

61-102

62-103

63-104

64-105

65-106

66-107

67-108

68-109

69-110

70-111

71-112

72-113

73-114

74-115

75-116

76-117

77-118

78-119

79-120

80-121

81-122

82-123

83-124

84-125

85-126

86-127

87-128

88-129

89-130

90-131

91-132

92-133

93-134

94-135

95-136

96-137

97-138

98-139

99-140

100-141

101-142

102-143

103-144

104-145

105-146

106-147

107-148

108-149

109-150

110-151

111-152

112-153

113-154

114-155

115-156

116-157

117-158

118-159

119-160

120-161

121-162

122-163

123-164

124-165

125-166

126-167

127-168

128-169

129-170

130-171

131-172

132-173

133-174

134-175

135-176

136-177

137-178

138-179

139-180

140-181

141-182

142-183

143-184

144-185

145-186

146-187

147-188

148-189

149-190

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

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

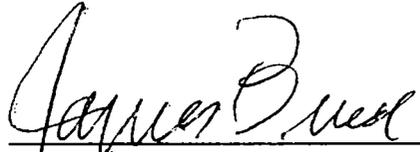
Case No. 15886

AFFIDAVIT OF NOTICE

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

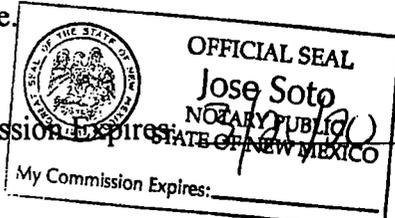
James Bruce, being duly sworn upon his oath, deposes and states:

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 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 Rules NMAC 19.15.4.9 and 19.15.4.12.C.



James Bruce

SUBSCRIBED AND SWORN TO before me this _____ day of October, 2017 by
James Bruce.

My Commission Expires: _____

OFFICIAL SEAL
Jose Soto
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires: _____



Notary Public

EXHIBIT 

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

November 9, 2017

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

To: Persons on Exhibit A

Ladies and gentlemen:

Enclosed are copies of two applications for a non-standard oil and spacing and proration unit, *etc.*, filed with the New Mexico Oil Conservation Division by Mewbourne Oil Company, regarding:

1. Case No. 15886, for compulsory pooling, regarding the Pavo Macho 31/32 B2DA Fed. Com. Well No. 1H, a Bone Spring well in the N/2N/2 of Section 31 and N/2N/2 of Section 32; and
2. Case No. 15887, for compulsory pooling, regarding the Pavo Macho 31/32 B2EH Fed. Com. Well No. 1H, a Bone Spring well in the S/2N/2 of Section 31 and S/2N/2 of Section 32,

both in Township 18 South, Range 29 East, NMPM, Eddy County, New Mexico.

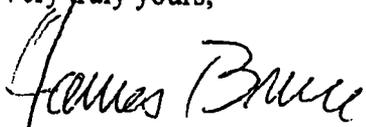
These matters are scheduled for hearing at 8:15 a.m. on Thursday, November 30, 2017, in Porter Hall at the Division's offices at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an offset operator or interest owner who may be affected by the applications, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from contesting 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, November 23, 2017. 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,

A handwritten signature in cursive script that reads "James Bruce". The signature is written in black ink and is positioned above the printed name.

James Bruce

Attorney for Mewbourne Oil Company

EXHIBIT

A

S/2 Section 25, T18S, R28E

COG Operating LLC – Operator
600 W. Illinois
Midland, TX 79701
Attn: Rita Burress

All of Section 36, T18S, R28E

Mewbourne Oil Company – Operator

S/2 Section 30, T18S, R29E

Chisholm Energy Operating, LLC – Operator
801 Cherry Street
Fort Worth, TX 76102

S/2 Section 31, T18S, R29E

Mewbourne Oil Company – Operator

S/2 Section 29, T18S, R29E

Mewbourne Oil Company – Operator

S/2 Section 32, T18S, R29E

Cimarex Energy Co. – Operator
600 N. Marienfeld, Suite 600
Midland, TX 79701
Attn: Kelly Reese

S/2 Section 28, T18S, R29E

Mewbourne Oil Company – Operator

N/2 Section 33, T18S, R29E

EOG Y Resources, Inc. – Operator

S/2 Section 33, T18S, R29E

OXY USA Inc.
P.O. Box 4294
Houston, TX 77210
Attn: Lauren Guest

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

9590 9402 3019 7124 7178 02

2. Article Number (Transfer from service label)

7017 0190 0000 8401 8510

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Robert Jona* Agent
 Addressee

B. Received by (Printed Name)

R-Jona

C. Date of Delivery

11-14-17

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
- 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

stricted Delivery

M-PR

Domestic Return Receipt

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

For delivery information, visit our website at www.usps.com®.

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

Chisholm Energy Operating, LLC
Street and Apt. No., or PO Box 801 Cherry Street
Fort Worth, TX 76102
City, State, ZIP+4® _____

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

See Reverse for Instructions

7017 0190 0000 8401 8497

Postmark
Here

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

For delivery information, visit our website at www.usps.com®.

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

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

Chisholm Energy Operating, LLC
801 Cherry Street
Fort Worth, TX 76102

9590 9402 3019 7124 7117 65

7017 0190 0000 8401 8497

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Robert Jona* Agent
 Addressee

B. Received by (Printed Name)

R-Jona

C. Date of Delivery

11-14-17

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

stricted Delivery
(over \$500)

M-PR

Domestic Return Receipt

7017 0190 0000 8401 8510

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:

Cimarex Energy Co. - Operator
600 N. Maricfield, Suite 600
Midland, TX 79701

9590 9402 3019 7124 7117 58

2. A (Print service label)

7017 0190 0000 8401 8480

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature *Jackie N...* Agent Addressee

B. Received by (Printed Name) C. Date of Delivery

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

3. Service Type
- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input checked="" type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |

Domestic Return Receipt

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

For delivery information, visit our website at www.usps.com®

Certified Mail Fee

- Extra Services & Fees (check box, add fee as appropriate)
- | | |
|--|----------|
| <input type="checkbox"/> Return Receipt (hardcopy) | \$ _____ |
| <input type="checkbox"/> Return Receipt (electronic) | \$ _____ |
| <input type="checkbox"/> Certified Mail Restricted Delivery | \$ _____ |
| <input type="checkbox"/> Adult Signature Required | \$ _____ |
| <input type="checkbox"/> Adult Signature Restricted Delivery | \$ _____ |

Postage

Total Postage and Fees

Sent To COG Operating LLC - Operator
Street and Apt. No., or PO Box 600 W. Illinois
Midland, TX 79701

City, State, ZIP+4®

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

7017 0190 0000 8401 8503

COMPLETE THIS SECTION ON DELIVERY

A. Signature *Chuck Sims* Agent Addressee

B. Received by (Printed Name) C. Date of Delivery 11/13/17

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

3. Service Type
- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input checked="" type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| | <input type="checkbox"/> Signature Confirmation Restricted Delivery |

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 - Operator
600 W. Illinois
Midland, TX 79701

9590 9402 3019 7124 7118 19

2. A (Print service label)

7017 0190 0000 8401 8503

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

M-PM

Domestic Return Receipt

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

For delivery information, visit our website at www.usps.com®

Certified Mail Fee

- Extra Services & Fees (check box, add fee as appropriate)
- | | |
|--|----------|
| <input type="checkbox"/> Return Receipt (hardcopy) | \$ _____ |
| <input type="checkbox"/> Return Receipt (electronic) | \$ _____ |
| <input type="checkbox"/> Certified Mail Restricted Delivery | \$ _____ |
| <input type="checkbox"/> Adult Signature Required | \$ _____ |
| <input type="checkbox"/> Adult Signature Restricted Delivery | \$ _____ |

Postage

Total Postage and Fees

Sent To Cimarex Energy Co. - Operator
600 N. Maricfield, Suite 600
Midland, TX 79701

City, State, ZIP+4®

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

7017 0190 0000 8401 8480

Postmark Here

7037 0390 0000 840J 8473

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

For delivery information, visit our website at www.usps.com®.

POSTAGE WILL BE PAID BY ADDRESSEE

Certified Mail Fee \$ _____

Extra Services & Fees (check box, add fee as appropriate)

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

Postmark
Here

Postage \$ _____

Total Postage and Fees \$ _____

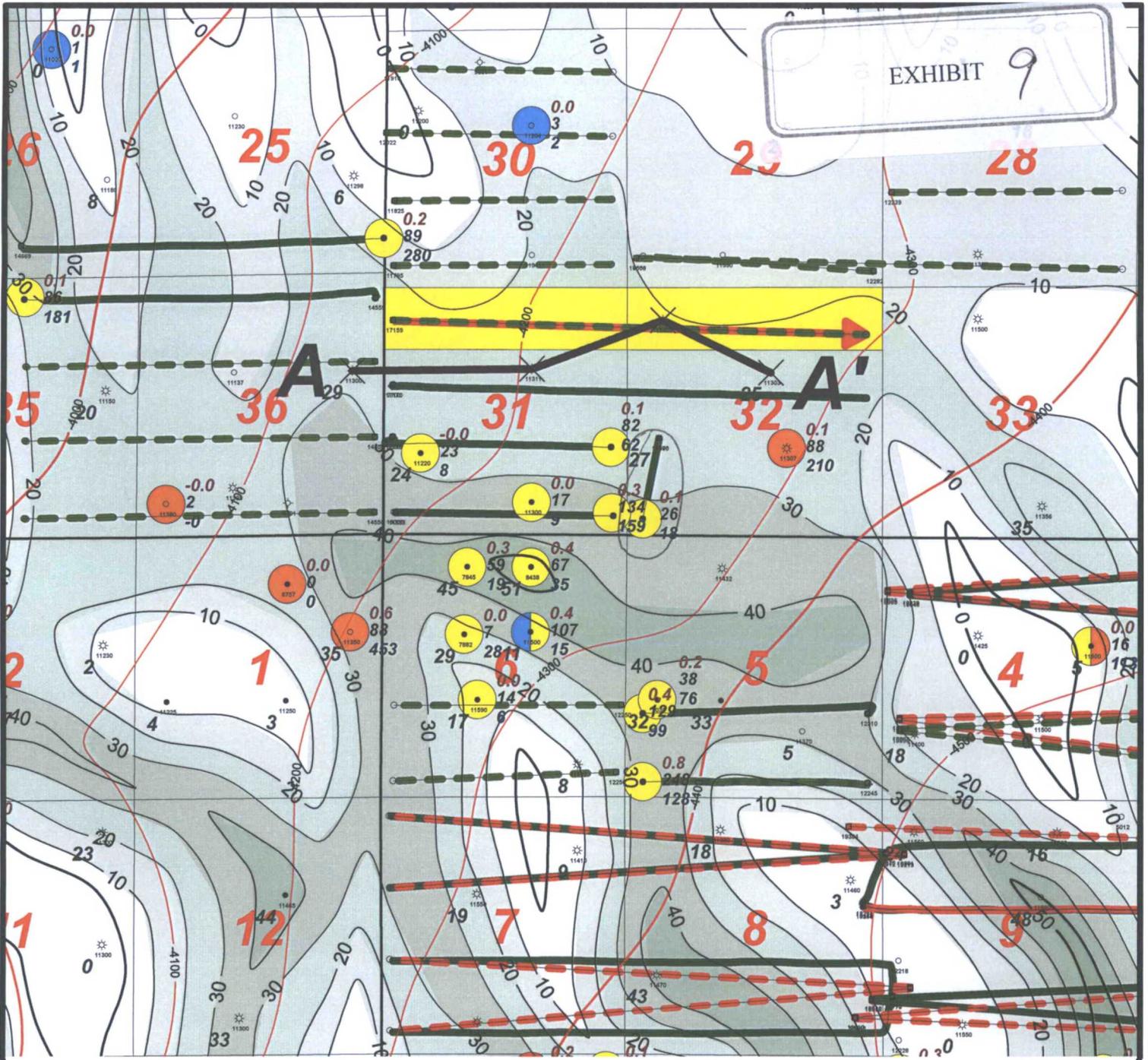
Sent To _____

OXY USA Inc.
P.O. Box 4294

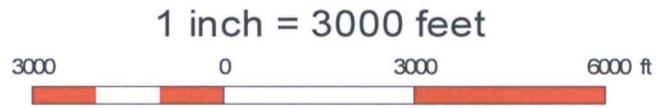
Street and Apt. No., or PO Box _____

Houston, TX 77210

City, State, ZIP+4® _____



- BSPG Production Circles**
- Avalon Sand
 - Avalon Shale
 - 1st BSPG Sd
 - BSPG Carb
 - 2nd BSPG Sd
 - Harkey Sd
 - 3rd BSPG Sd



- Bone Spring Horizontal Activity**
- 2nd BSPG Sand
 - 3rd BSPG Sand
- Proposed: - - -
 Drilled: —

Net Sd ● Cum BCF
● Cum MBO
● Cum MBW

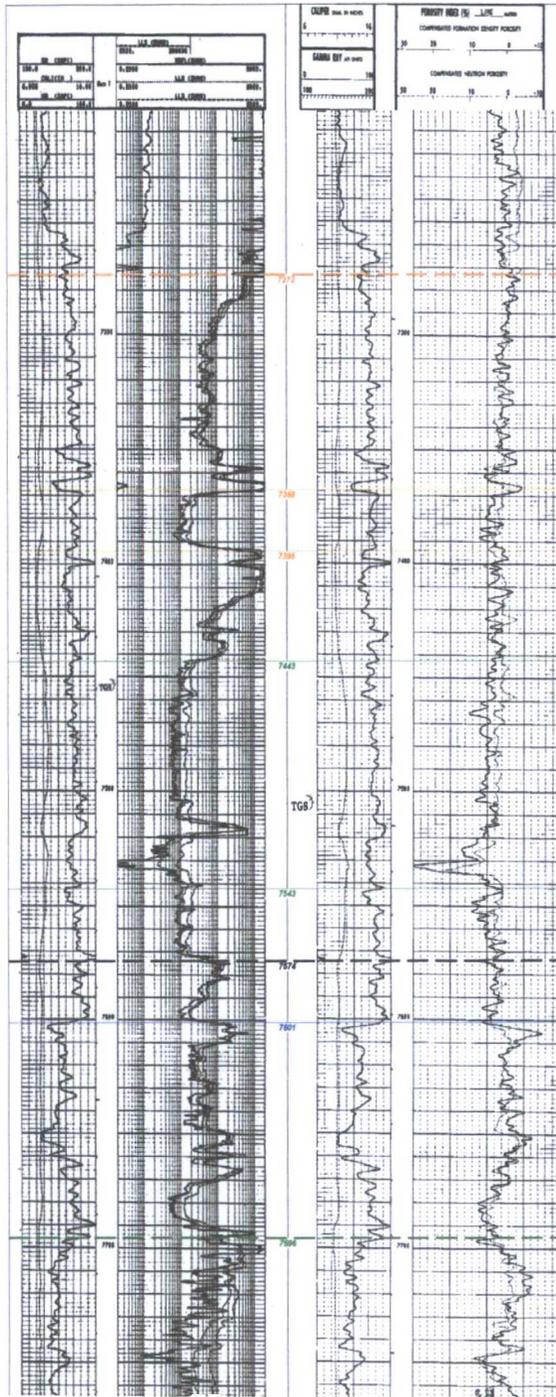
Producing BSPG Zone
 (1st BSPG Sd, 2nd BSPG Sd, etc)

MOC Mewbourne Oil Company

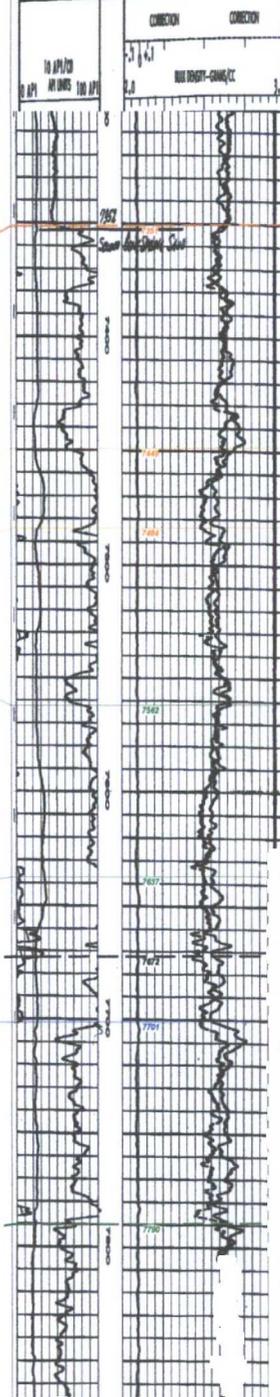
*Pavo Macho 31-32 B2DA
 Isopach/Structure Map Exhibit
 Net Isopach Lower 2nd BSPG Sd (C.I. 10')
 Structure Base of 2nd BSPG Sd (C.I. 100')*

12/14/2017	Eddy County	New Mexico
Wells <5000' Filtered Out	1 Inch = 3000 Feet	N.Cless

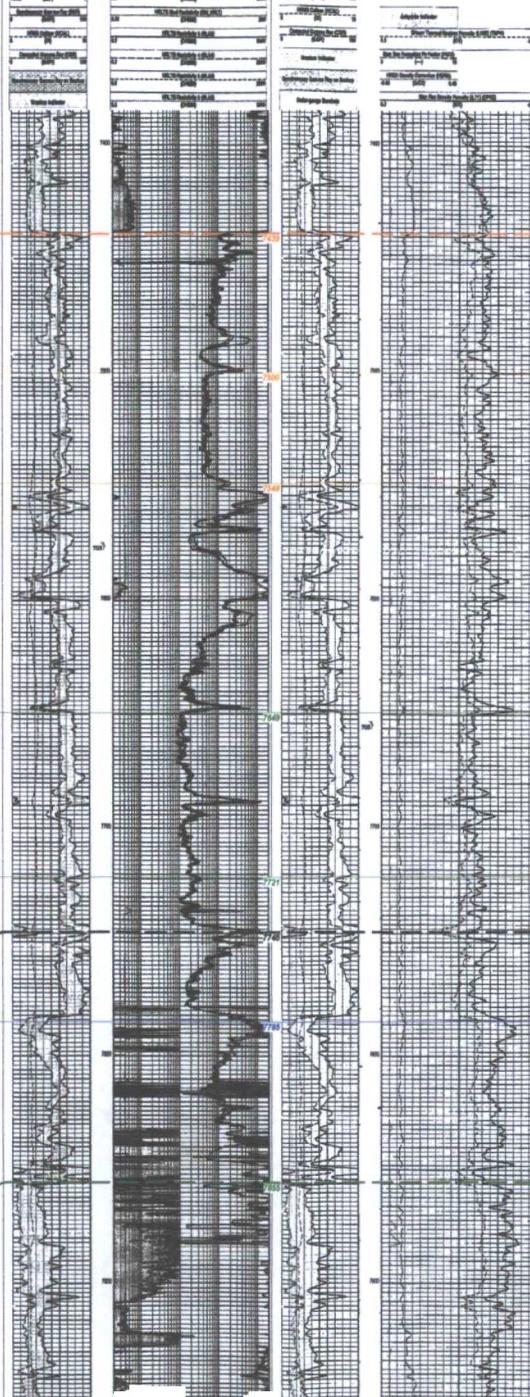
36 H



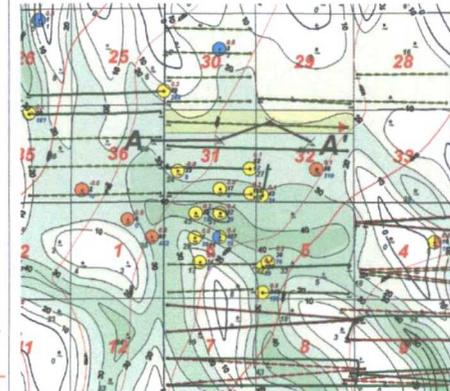
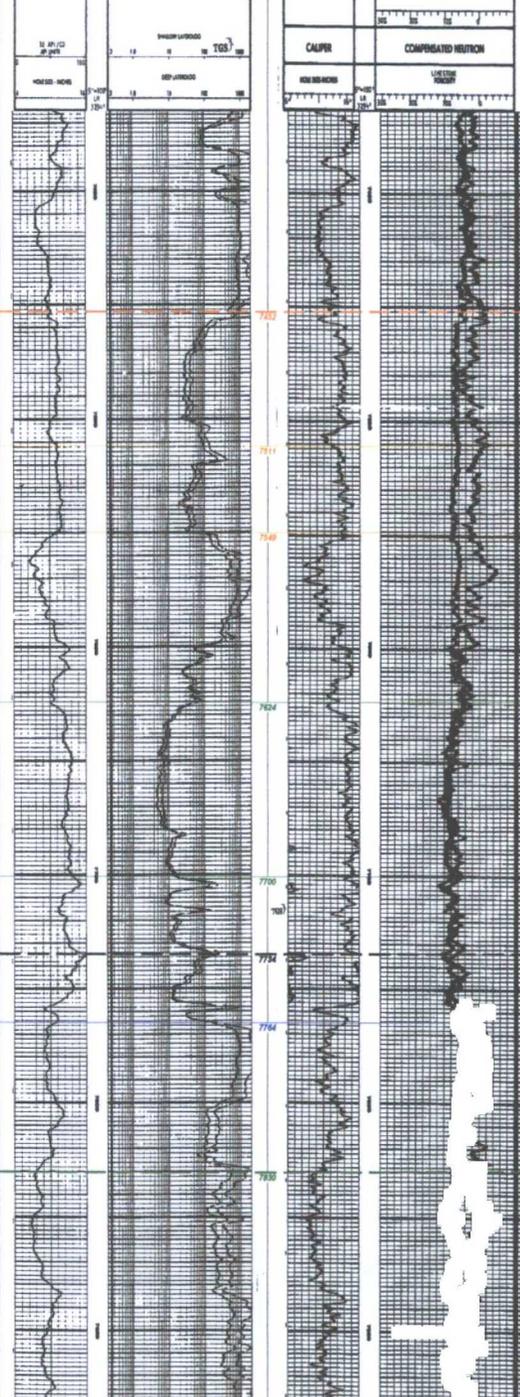
31 G



32 D



32 G



Net Isopach 2nd BSPG Lower Sd (C.I. 10')
Structure Base of 2nd BSPG Sd (C.I. 100')

Upper 2nd BSPG Sd

Lower 2nd BSPG Sd
Horizontal Target

EXHIBIT 10

3rd BSPG Carb

Pavo Macho

A

A'

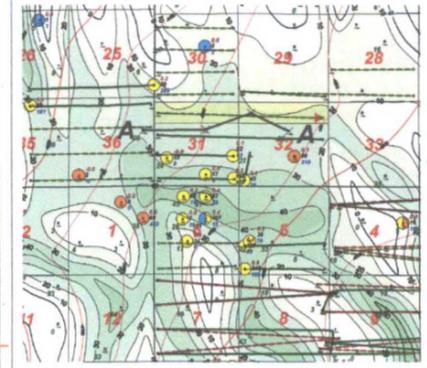
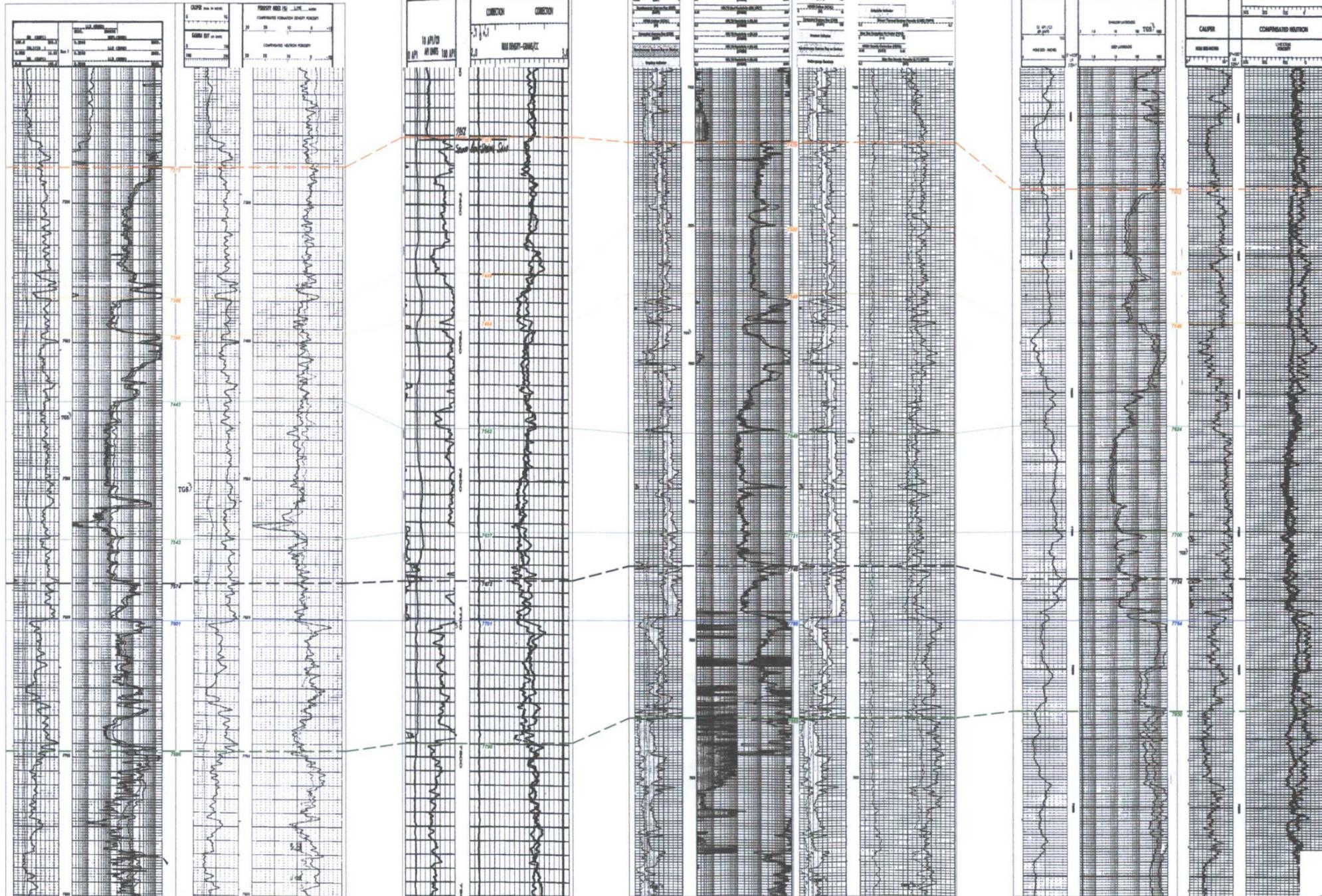


36 H

31 G

32 D

32 G



Net Isopach 2nd BSPG Lower Sd (C.I. 10)
Structure Base of 2nd BSPG Sd (C.I. 100)

Upper 2nd BSPG Sd

Lower 2nd BSPG Sd
Horizontal Target

EXHIBIT 10

3rd BSPG Carb

Pavo Macho
Cross Section Exhibit

TD=11300.00
Cum Oil All Zones: 9.5 bbls
Cum Gas All Zones: 3.4 BCF
Cum Water All Zones: 7.7 bbls

TD=11311.00
Cum Oil All Zones: 8.3 bbls
Cum Gas All Zones: 0.7 BCF
Cum Water All Zones: 1.0 bbls

TD=11422.00
Cum Oil All Zones: 0.4 bbls
Cum Gas All Zones: 0.3 BCF
Cum Water All Zones: 0.4 bbls

TD=11303.00
Cum Oil All Zones: 32 bbls
Cum Gas All Zones: 2.2 BCF
Cum Water All Zones: 68 bbls

Pavo Macho 31/32 Horizontal Bone Spring Production Table

Well Name	Operator	API	Location	BSPG Completion Date	Cum Oil (mbo)	Cum Gas (bcf)	Cum Water (mbw)	BSPG Zone	Orientation
Gobbler 5 B2L State Com 1H	MEWBOURNE	300154295400	5L/19S/29E	10/11/2016	129	0.4	99	2nd BSPG Sd	EW
Gobbler 5 B2PM State Com 1H	MEWBOURNE	300154285100	5PM/19S/29E	4/25/2015	248	0.8	128	2nd BSPG Sd	EW
Lajita BWQ State Com 1H	COG	300154339000	26-25OP/18S/28E	8/29/2016	89	0.2	280	2nd BSPG Sd	EW
Palmillo State Com 4	CIMAREX	300153149701	32LM/18S/29E	11/28/2010	26	0.1	18	2nd BSPG Sd	NS
Pavo Macho 31 B2LJ Fed Com 1H	MEWBOURNE	300154406600	31L/18S/29E	6/2/2017	82	0.1	62	2nd BSPG Sd	EW
Pavo Macho 31 B2MP Federal 1H	MEWBOURNE	300154378600	31MP/18S/29E	9/8/2016	134	0.3	159	2nd BSPG Sd	EW
Pavo Macho 31/32 B2DA Fed Com 1H	MEWBOURNE	300154378700	31-32DA/18S/29E	Permit				2nd BSPG Sd	EW
Pavo Macho 31/32 B2EH Fed Com 1H	MEWBOURNE	300154378400	31-32EH/18S/29E	Spud 11-12-17				2nd BSPG Sd	EW
Turkey Track 4-3 State 21H	OXY	300154433400	4-3DA/19S/29E	Spud 10-5-17				2nd BSPG Sd	EW
Turkey Track 4-3 State 22H	OXY	300154438600	4-3EH/19S/29E	Spud 10-3-17				2nd BSPG Sd	EW
Turkey Track 8-7 State 21H	OXY	300154414100	8-7AD/19S/29E	Spud 10/28/17				2nd BSPG Sd	EW
Turkey Track 8-7 State 22H	OXY	300154414200	8-7HE/19S/29E	Spud 10/30/17				2nd BSPG Sd	EW
Turkey Track 8-7 State 23H	OXY	300154414300	8-7IL/19S/29E	Spud 9/1/17				2nd BSPG Sd	EW
Turkey Track 8-7 State 24H	OXY	300154414500	8-7PM/19S/29E	Spud 9/2/17				2nd BSPG Sd	EW
Turkey Track 9-10 State 21H	OXY	300154411700	9-10DA/19S/29E	Spud 6/7/17				2nd BSPG Sd	EW
Turkey Track 9-10 State 22H	OXY	300154412200	9-10EH/19S/29E	Spud 6/10/17				2nd BSPG Sd	EW
Turkey Track 9-10 State 23H	OXY	300154415400	9-10LI/19S/29E	Spud 10/14/17				2nd BSPG Sd	EW
Turkey Track 9-10 State 24H	OXY	300154415600	9-10MP/19S/29E	Spud 10/13/17				2nd BSPG Sd	EW
Turkey Track 9-10 State 32H	OXY	300154410901	9-10EH/19S/29E	Spud 6/12/17				3rd BSPG Sd	EW
Wild Turkey 36/35 B2AB State Com 1H	MEWBOURNE	300154331900	36-35AB/18S/28E	4/2/2017	86	0.1	181	2nd BSPG Sd	EW



Mewbourne Oil Company

Eddy County, New Mexico

Pavo Macho 31/32 B2DA Fed Com #1H

Sec 31, T18S, R29E

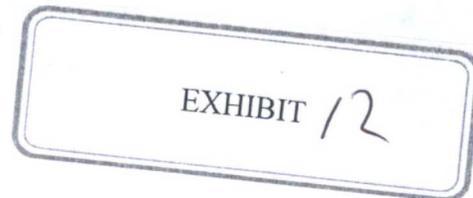
SL: 660' FNL & 185' FWL, Sec 31

BHL: 990' FNL & 330' FEL, Sec 32

Plan: Design #1

Standard Planning Report

11 December, 2015



Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Pavo Macho 31/32 B2DA Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3445.0usft (Original Well Elev)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3445.0usft (Original Well Elev)
Site:	Pavo Macho 31/32 B2DA Fed Com #1H	North Reference:	Grid
Well:	Sec 31, T18S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 990' FNL & 330' FEL, Sec 32		
Design:	Design #1		

Project	Eddy County, New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Pavo Macho 31/32 B2DA Fed Com #1H				
Site Position:		Northing:	621,789.00 usft	Latitude:	32° 42' 33.174 N
From:	Map	Easting:	565,388.00 usft	Longitude:	104° 7' 14.694 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.11 °

Well	Sec 31, T18S, R29E					
Well Position	+N/-S	0.0 usft	Northing:	621,789.00 usft	Latitude:	32° 42' 33.174 N
	+E/-W	0.0 usft	Easting:	565,388.00 usft	Longitude:	104° 7' 14.694 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,445.0 usft	Ground Level:	3,418.0 usft

Wellbore	BHL: 990' FNL & 330' FEL, Sec 32				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	8.04	60.59	49,023

Design	Design #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	91.71	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,085.5	0.00	0.00	7,085.5	0.0	0.0	0.00	0.00	0.00	0.00	
7,829.0	89.21	91.71	7,563.0	-14.1	470.7	12.00	12.00	0.00	91.71	
17,159.4	89.21	91.71	7,692.0	-293.0	9,796.0	0.00	0.00	0.00	0.00	BHL: 990' FNL & 330'

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Pavo Macho 31/32 B2DA Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3445.0usft (Original Well Elev)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3445.0usft (Original Well Elev)
Site:	Pavo Macho 31/32 B2DA Fed Com #1H	North Reference:	Grid
Well:	Sec 31, T18S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 990' FNL & 330' FEL, Sec 32		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
SL: 660' FNL & 185' FWL, Sec 31										
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Pavo Macho 31/32 B2DA Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3445.0usft (Original Well Elev)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3445.0usft (Original Well Elev)
Site:	Pavo Macho 31/32 B2DA Fed Com #1H	North Reference:	Grid
Well:	Sec 31, T18S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 990' FNL & 330' FEL, Sec 32		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,085.5	0.00	0.00	7,085.5	0.0	0.0	0.0	0.00	0.00	0.00	
KOP @ 7086'										
7,100.0	1.74	91.71	7,100.0	0.0	0.2	0.2	12.00	12.00	0.00	
7,200.0	13.73	91.71	7,198.9	-0.4	13.6	13.7	12.00	12.00	0.00	
7,300.0	25.73	91.71	7,292.9	-1.4	47.3	47.4	12.00	12.00	0.00	
7,400.0	37.73	91.71	7,377.8	-3.0	99.8	99.9	12.00	12.00	0.00	
7,467.9	45.88	91.71	7,428.3	-4.3	145.0	145.1	12.00	12.00	0.00	
First Take Point: 665' FNL & 330' FWL, Sec 31										
7,500.0	49.73	91.71	7,449.9	-5.0	168.8	168.9	12.00	12.00	0.00	
7,600.0	61.73	91.71	7,506.1	-7.5	251.2	251.3	12.00	12.00	0.00	
7,700.0	73.73	91.71	7,543.9	-10.3	343.6	343.7	12.00	12.00	0.00	
7,800.0	85.73	91.71	7,561.7	-13.2	441.7	441.9	12.00	12.00	0.00	
7,829.0	89.21	91.71	7,563.0	-14.1	470.7	470.9	12.00	12.00	0.00	
LP: 675' FNL & 655' FWL, Sec 31										
7,900.0	89.21	91.71	7,564.0	-16.2	541.7	541.9	0.00	0.00	0.00	
8,000.0	89.21	91.71	7,565.4	-19.2	641.6	641.9	0.00	0.00	0.00	
8,100.0	89.21	91.71	7,566.7	-22.2	741.5	741.9	0.00	0.00	0.00	
8,200.0	89.21	91.71	7,568.1	-25.2	841.5	841.9	0.00	0.00	0.00	
8,300.0	89.21	91.71	7,569.5	-28.2	941.4	941.9	0.00	0.00	0.00	
8,400.0	89.21	91.71	7,570.9	-31.1	1,041.4	1,041.8	0.00	0.00	0.00	
8,500.0	89.21	91.71	7,572.3	-34.1	1,141.3	1,141.8	0.00	0.00	0.00	
8,600.0	89.21	91.71	7,573.7	-37.1	1,241.3	1,241.8	0.00	0.00	0.00	
8,700.0	89.21	91.71	7,575.0	-40.1	1,341.2	1,341.8	0.00	0.00	0.00	
8,800.0	89.21	91.71	7,576.4	-43.1	1,441.2	1,441.8	0.00	0.00	0.00	
8,900.0	89.21	91.71	7,577.8	-46.1	1,541.1	1,541.8	0.00	0.00	0.00	
9,000.0	89.21	91.71	7,579.2	-49.1	1,641.1	1,641.8	0.00	0.00	0.00	
9,100.0	89.21	91.71	7,580.6	-52.1	1,741.0	1,741.8	0.00	0.00	0.00	
9,200.0	89.21	91.71	7,582.0	-55.1	1,840.9	1,841.8	0.00	0.00	0.00	
9,300.0	89.21	91.71	7,583.3	-58.1	1,940.9	1,941.8	0.00	0.00	0.00	
9,400.0	89.21	91.71	7,584.7	-61.0	2,040.8	2,041.8	0.00	0.00	0.00	
9,500.0	89.21	91.71	7,586.1	-64.0	2,140.8	2,141.7	0.00	0.00	0.00	
9,600.0	89.21	91.71	7,587.5	-67.0	2,240.7	2,241.7	0.00	0.00	0.00	
9,700.0	89.21	91.71	7,588.9	-70.0	2,340.7	2,341.7	0.00	0.00	0.00	
9,800.0	89.21	91.71	7,590.3	-73.0	2,440.6	2,441.7	0.00	0.00	0.00	
9,900.0	89.21	91.71	7,591.6	-76.0	2,540.6	2,541.7	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Pavo Macho 31/32 B2DA Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3445.0usft (Original Well Elev)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3445.0usft (Original Well Elev)
Site:	Pavo Macho 31/32 B2DA Fed Com #1H	North Reference:	Grid
Well:	Sec 31, T18S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 990' FNL & 330' FEL, Sec 32		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,000.0	89.21	91.71	7,593.0	-79.0	2,640.5	2,641.7	0.00	0.00	0.00	
10,100.0	89.21	91.71	7,594.4	-82.0	2,740.5	2,741.7	0.00	0.00	0.00	
10,200.0	89.21	91.71	7,595.8	-85.0	2,840.4	2,841.7	0.00	0.00	0.00	
10,300.0	89.21	91.71	7,597.2	-87.9	2,940.4	2,941.7	0.00	0.00	0.00	
10,400.0	89.21	91.71	7,598.5	-90.9	3,040.3	3,041.7	0.00	0.00	0.00	
10,500.0	89.21	91.71	7,599.9	-93.9	3,140.2	3,141.6	0.00	0.00	0.00	
10,600.0	89.21	91.71	7,601.3	-96.9	3,240.2	3,241.6	0.00	0.00	0.00	
10,700.0	89.21	91.71	7,602.7	-99.9	3,340.1	3,341.6	0.00	0.00	0.00	
10,800.0	89.21	91.71	7,604.1	-102.9	3,440.1	3,441.6	0.00	0.00	0.00	
10,900.0	89.21	91.71	7,605.5	-105.9	3,540.0	3,541.6	0.00	0.00	0.00	
11,000.0	89.21	91.71	7,606.8	-108.9	3,640.0	3,641.6	0.00	0.00	0.00	
11,100.0	89.21	91.71	7,608.2	-111.9	3,739.9	3,741.6	0.00	0.00	0.00	
11,200.0	89.21	91.71	7,609.6	-114.9	3,839.9	3,841.6	0.00	0.00	0.00	
11,300.0	89.21	91.71	7,611.0	-117.8	3,939.8	3,941.6	0.00	0.00	0.00	
11,400.0	89.21	91.71	7,612.4	-120.8	4,039.8	4,041.6	0.00	0.00	0.00	
11,500.0	89.21	91.71	7,613.8	-123.8	4,139.7	4,141.6	0.00	0.00	0.00	
11,600.0	89.21	91.71	7,615.1	-126.8	4,239.6	4,241.5	0.00	0.00	0.00	
11,700.0	89.21	91.71	7,616.5	-129.8	4,339.6	4,341.5	0.00	0.00	0.00	
11,800.0	89.21	91.71	7,617.9	-132.8	4,439.5	4,441.5	0.00	0.00	0.00	
11,900.0	89.21	91.71	7,619.3	-135.8	4,539.5	4,541.5	0.00	0.00	0.00	
12,000.0	89.21	91.71	7,620.7	-138.8	4,639.4	4,641.5	0.00	0.00	0.00	
12,100.0	89.21	91.71	7,622.0	-141.8	4,739.4	4,741.5	0.00	0.00	0.00	
12,200.0	89.21	91.71	7,623.4	-144.7	4,839.3	4,841.5	0.00	0.00	0.00	
12,300.0	89.21	91.71	7,624.8	-147.7	4,939.3	4,941.5	0.00	0.00	0.00	
12,400.0	89.21	91.71	7,626.2	-150.7	5,039.2	5,041.5	0.00	0.00	0.00	
12,500.0	89.21	91.71	7,627.6	-153.7	5,139.2	5,141.5	0.00	0.00	0.00	
12,600.0	89.21	91.71	7,629.0	-156.7	5,239.1	5,241.4	0.00	0.00	0.00	
12,700.0	89.21	91.71	7,630.3	-159.7	5,339.0	5,341.4	0.00	0.00	0.00	
12,800.0	89.21	91.71	7,631.7	-162.7	5,439.0	5,441.4	0.00	0.00	0.00	
12,900.0	89.21	91.71	7,633.1	-165.7	5,538.9	5,541.4	0.00	0.00	0.00	
13,000.0	89.21	91.71	7,634.5	-168.7	5,638.9	5,641.4	0.00	0.00	0.00	
13,100.0	89.21	91.71	7,635.9	-171.6	5,738.8	5,741.4	0.00	0.00	0.00	
13,200.0	89.21	91.71	7,637.3	-174.6	5,838.8	5,841.4	0.00	0.00	0.00	
13,300.0	89.21	91.71	7,638.6	-177.6	5,938.7	5,941.4	0.00	0.00	0.00	
13,400.0	89.21	91.71	7,640.0	-180.6	6,038.7	6,041.4	0.00	0.00	0.00	
13,500.0	89.21	91.71	7,641.4	-183.6	6,138.6	6,141.4	0.00	0.00	0.00	
13,600.0	89.21	91.71	7,642.8	-186.6	6,238.6	6,241.4	0.00	0.00	0.00	
13,700.0	89.21	91.71	7,644.2	-189.6	6,338.5	6,341.3	0.00	0.00	0.00	
13,800.0	89.21	91.71	7,645.6	-192.6	6,438.5	6,441.3	0.00	0.00	0.00	
13,900.0	89.21	91.71	7,646.9	-195.6	6,538.4	6,541.3	0.00	0.00	0.00	
14,000.0	89.21	91.71	7,648.3	-198.6	6,638.3	6,641.3	0.00	0.00	0.00	
14,100.0	89.21	91.71	7,649.7	-201.5	6,738.3	6,741.3	0.00	0.00	0.00	
14,200.0	89.21	91.71	7,651.1	-204.5	6,838.2	6,841.3	0.00	0.00	0.00	
14,300.0	89.21	91.71	7,652.5	-207.5	6,938.2	6,941.3	0.00	0.00	0.00	
14,400.0	89.21	91.71	7,653.8	-210.5	7,038.1	7,041.3	0.00	0.00	0.00	
14,500.0	89.21	91.71	7,655.2	-213.5	7,138.1	7,141.3	0.00	0.00	0.00	
14,600.0	89.21	91.71	7,656.6	-216.5	7,238.0	7,241.3	0.00	0.00	0.00	
14,700.0	89.21	91.71	7,658.0	-219.5	7,338.0	7,341.2	0.00	0.00	0.00	
14,800.0	89.21	91.71	7,659.4	-222.5	7,437.9	7,441.2	0.00	0.00	0.00	
14,900.0	89.21	91.71	7,660.8	-225.5	7,537.9	7,541.2	0.00	0.00	0.00	
15,000.0	89.21	91.71	7,662.1	-228.4	7,637.8	7,641.2	0.00	0.00	0.00	
15,100.0	89.21	91.71	7,663.5	-231.4	7,737.7	7,741.2	0.00	0.00	0.00	
15,200.0	89.21	91.71	7,664.9	-234.4	7,837.7	7,841.2	0.00	0.00	0.00	
15,300.0	89.21	91.71	7,666.3	-237.4	7,937.6	7,941.2	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Pavo Macho 31/32 B2DA Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3445.0usft (Original Well Elev)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3445.0usft (Original Well Elev)
Site:	Pavo Macho 31/32 B2DA Fed Com #1H	North Reference:	Grid
Well:	Sec 31, T18S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 990' FNL & 330' FEL, Sec 32		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
15,400.0	89.21	91.71	7,667.7	-240.4	8,037.6	8,041.2	0.00	0.00	0.00	
15,500.0	89.21	91.71	7,669.1	-243.4	8,137.5	8,141.2	0.00	0.00	0.00	
15,600.0	89.21	91.71	7,670.4	-246.4	8,237.5	8,241.2	0.00	0.00	0.00	
15,700.0	89.21	91.71	7,671.8	-249.4	8,337.4	8,341.1	0.00	0.00	0.00	
15,800.0	89.21	91.71	7,673.2	-252.4	8,437.4	8,441.1	0.00	0.00	0.00	
15,900.0	89.21	91.71	7,674.6	-255.4	8,537.3	8,541.1	0.00	0.00	0.00	
16,000.0	89.21	91.71	7,676.0	-258.3	8,637.3	8,641.1	0.00	0.00	0.00	
16,100.0	89.21	91.71	7,677.4	-261.3	8,737.2	8,741.1	0.00	0.00	0.00	
16,200.0	89.21	91.71	7,678.7	-264.3	8,837.1	8,841.1	0.00	0.00	0.00	
16,300.0	89.21	91.71	7,680.1	-267.3	8,937.1	8,941.1	0.00	0.00	0.00	
16,400.0	89.21	91.71	7,681.5	-270.3	9,037.0	9,041.1	0.00	0.00	0.00	
16,500.0	89.21	91.71	7,682.9	-273.3	9,137.0	9,141.1	0.00	0.00	0.00	
16,600.0	89.21	91.71	7,684.3	-276.3	9,236.9	9,241.1	0.00	0.00	0.00	
16,700.0	89.21	91.71	7,685.6	-279.3	9,336.9	9,341.1	0.00	0.00	0.00	
16,800.0	89.21	91.71	7,687.0	-282.3	9,436.8	9,441.0	0.00	0.00	0.00	
16,900.0	89.21	91.71	7,688.4	-285.2	9,536.8	9,541.0	0.00	0.00	0.00	
17,000.0	89.21	91.71	7,689.8	-288.2	9,636.7	9,641.0	0.00	0.00	0.00	
17,100.0	89.21	91.71	7,691.2	-291.2	9,736.7	9,741.0	0.00	0.00	0.00	
17,159.4	89.21	91.71	7,692.0	-293.0	9,796.0	9,800.4	0.00	0.00	0.00	
BHL: 990' FNL & 330' FEL, Sec 32										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SL: 660' FNL & 185' FW - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	621,789.00	565,388.00	32° 42' 33.174 N	104° 7' 14.694 W	
KOP @ 7086' - plan hits target center - Point	0.00	0.00	7,085.5	0.0	0.0	621,789.00	565,388.00	32° 42' 33.174 N	104° 7' 14.694 W	
First Take Point: 665' FN - plan hits target center - Point	0.00	0.00	7,428.3	-4.3	145.0	621,784.67	565,533.00	32° 42' 33.129 N	104° 7' 12.997 W	
LP: 675' FNL & 655' FW - plan hits target center - Point	0.00	0.00	7,563.0	-14.1	470.7	621,774.90	565,858.70	32° 42' 33.026 N	104° 7' 9.185 W	
BHL: 990' FNL & 330' FE - plan hits target center - Point	0.00	0.00	7,692.0	-293.0	9,796.0	621,496.00	575,184.00	32° 42' 30.066 N	104° 5' 20.050 W	

Pavo Macho 31/32 B2DA Fed Com #1H

