

8CD Artesia
NM OIL CONSERVATION

ARTESIA DISTRICT

MAY 16 2016

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

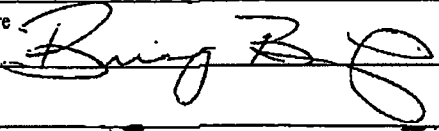

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		7. If Unit or CA Agreement, Name and No.
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		8. Lease Name and Well No. Pavo Macho 31/32 B2DA Fed Com #1H
2. Name of Operator Mewbourne Oil Company		9. API Well No. 30-015-43787
3a. Address PO Box 5270 Hobbs, NM 88241	3b. Phone No. (include area code) 575-390-6838	10. Field and Pool, or Exploratory Palmillo East Bone Spring Oil #49553
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		11. Sec., T. R. M. or Bk. and Survey or Area Sec 31 T18S R29E
14. Distance in miles and direction from nearest town or post office* 22 miles NE of Carlsbad, NM		12. County or Parish Eddy
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 185		13. State NM
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		20. BLM/BIA Bond No. on file NM1693 nationwide, NMB-000919
19. Proposed Depth 7,692' - TVD 17,160 - MD		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:

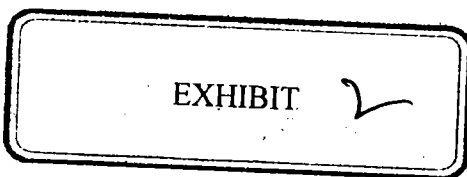
- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the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

25. Signature 	Name (Printed/Typed) Bradley Bishop	Date 1-22-16
Title		
Approved by (Signature) 	Name (Printed/Typed) George MacDonell	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:

Title 18 U.S.C. Section 1001 and Title
States any false, fictitious or fraudulent

(Continued on page 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
ition.

*(Instructions on page 2)

Capitan Controlled Water Basin

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Approval Subject to General Requirements
& Special Stipulations Attached

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 **NM OIL CONSERVATION** Form C-102
Energy, Minerals & Natural Resources Department **ARTESIA DISTRICT** Revised August 1, 2011
OIL CONSERVATION DIVISION MAY 16 2016 Submit one copy to appropriate District Office
1220 South St. Francis Dr.
Santa Fe, NM 87505

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	6 Well Number 1H
7 GRID NO. 14744	8 Operator Name MEWBOURNE OIL COMPANY	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.
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No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

16 GEODETIC DATA NAD 27 GRID - NM EAST SURFACE LOCATION N: 621788.5 - E: 565388.0 LAT: 32.70921385° N LONG: 104.12074838° W BOTTOM HOLE N: 621495.8 - E: 575184.0 LAT: 32.70835114° N LONG: 104.08890282° W	CORNER DATA NAD 27 GRID - NM EAST A: FOUND BRASS CAP "1916" N: 617454.7 - E: 565198.6 B: FOUND BRASS CAP "1916" N: 622447.7 - E: 565205.0 C: FOUND BRASS CAP "1916" N: 622456.4 - E: 567594.8 D: FOUND BRASS CAP "1916" N: 622466.3 - E: 570235.1 E: FOUND BRASS CAP "1916" N: 622476.3 - E: 572872.8	F: FOUND BRASS CAP "1916" N: 622486.9 - E: 575510.9 G: CALCULATED CORNER N: 617365.0 - E: 575526.2 H: FOUND 1/2" REBAR N: 617378.0 - E: 570250.1 I: FOUND 1/2" REBAR N: 617422.6 - E: 567609.1 J: FOUND BRASS CAP "1916" N: 619825.8 - E: 570241.6	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided 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: <i>[Signature]</i> Date: 1-22-16 Printed Name: BLADLEY BISHOP E-mail Address:
18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 7-20-2015 Date of Survey Signature and Seal of Professional Surveyor: <i>[Signature]</i> 19680 Certificate Number REVISED - 1 DEC 2015 BY NAME			

19
N 89°47'33" E 2380.34' © N 89°47'04" E 2640.98' ⓓ N 89°46'54" E 2638.40' ⓔ N 89°46'17" E 2638.78'
S 88°17'18" E (GRID) 9802.76' (HORIZ.)
S 00°08'31" E 2641.18'
S 00°10'16" E 5123.13'
N 00°04'27" E 4994.22'
N 89°14'09" W 2411.31' ⓐ N 89°02'01" W 2642.06' ⓑ N 89°51'32" W 5277.41' ⓓ
LOT 1 32.51 AC (REC)
LOT 2 32.66 AC (REC)
LOT 3 32.80 AC (REC)
LOT 4 33.97 AC (REC)
LOT 5 32.00 AC (REC)
LOT 6 32.54 AC (REC)
LOT 7 33.00 AC (REC)
LOT 8 33.57 AC (REC)
LOT 9 34.00 AC (REC)
LOT 10 34.42 AC (REC)
LOT 11 34.85 AC (REC)
SEE DETAIL "A"
DETAIL "A"
3421.5' 600' 3428.3'
3416.4' 3418.7'
Project Area
Producing Area
B. H.
330'

RRC - Firm No.: TX 10193838 NM 4655451 - Job No.: LS1507343

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

TRACT OWNERSHIP

7500/260

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%
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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%
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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%	<i>- New operating agreement</i>
*Southwest Royalties, Inc.	20.078700%	
Magnum Hunter Production, Inc.	19.194780%	<i>- EOG is only party to be pooled</i>
EOG Y Resources, Inc.	<u>6.398260%</u>	
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).

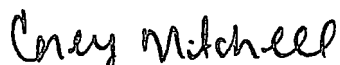
Mewbourne Oil Company ("Mewbourne") as Operator hereby proposes to drill the captioned well at the above referenced surface location (SL) to the referenced bottom hole location (BHL). The proposed well will be drilled to an approximate true vertical depth (TVD) of 7,700 feet subsurface to evaluate the 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 black ink, appearing to read "D. Paul Haden", with a stylized flourish at the end.

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



Mowbourn 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 cursive script, appearing to read "D. Paul Haden".

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				
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
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. whitte* Date: 6/29/2017
Joint Owner Interest: _____ Amount: _____
Joint Owner Name: _____ Signature: _____

**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.**

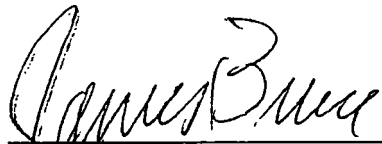
Case No. 15886

AFFIDAVIT OF NOTICE

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

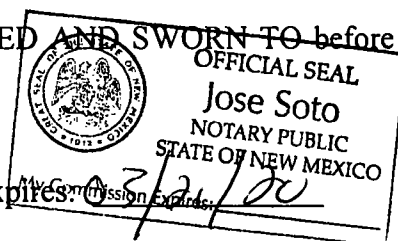
James Bruce, being duly sworn upon his oath, deposes and states:

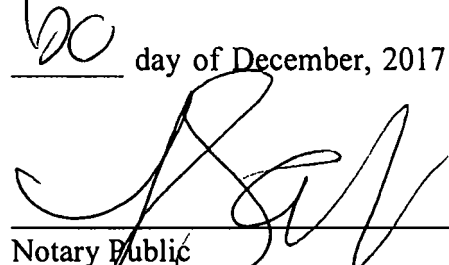
1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am an attorney for Mewbourne Oil Company.
3. Mewbourne Oil Company has conducted a good faith, diligent effort to find the names and correct addresses of the interest owners entitled to receive notice of the application 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 Rules NMAC 19.15.4.9 and 19.15.4.12.C.


James Bruce

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

My Commission Expires: 03/21/20




Notary Public

EXHIBIT

6

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.

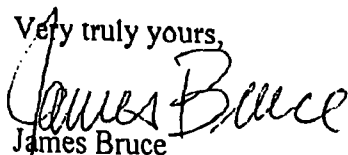
These matters are scheduled for hearing at 8:15 a.m. on Thursday, November 30, 2017, in Porter Hall at the Division's offices at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest who may be affected by the applications,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

Postmark
Here

Postage

\$

Total Postage and Fees

\$

Sent To

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

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

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 7118 20

Article Number (Transfer from service label)

7017 0190 0000 8401 8466

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Robert J. Ford

☐ Agent
☐ Addressee

B. Received by (Printed Name)

R. Ford

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

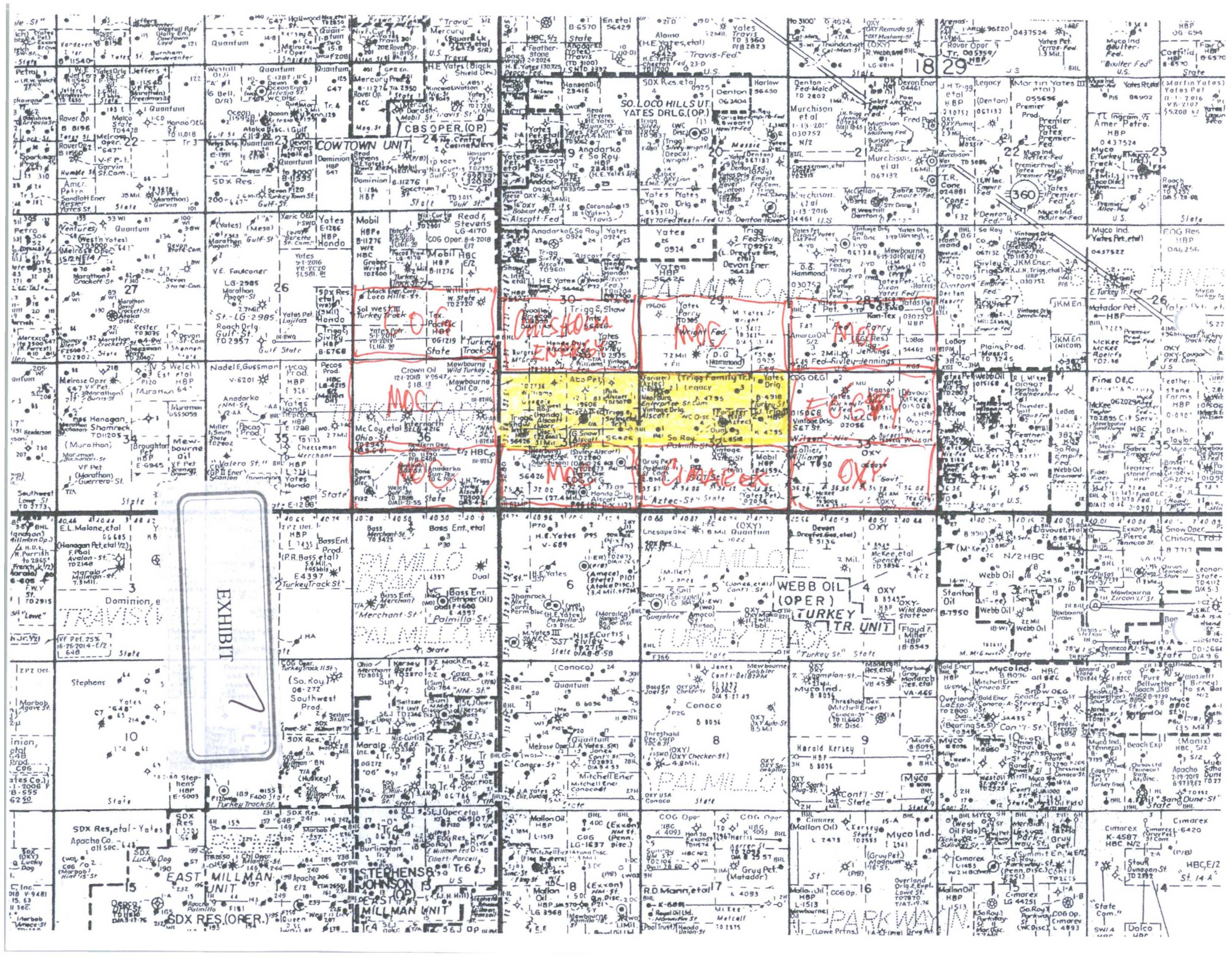
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

Mail
 Mail Restricted Delivery
 (00)

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

M-PM-fp

Domestic Return Receipt



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.

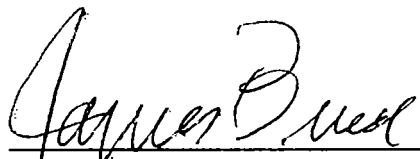
Case No. 15886

AFFIDAVIT OF NOTICE

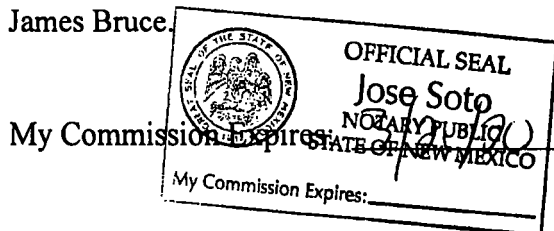
COUNTY OF SANTA FE)
) ss.
STATE OF NEW MEXICO)

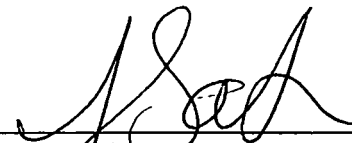
James Bruce, being duly sworn upon his oath, deposes and states:

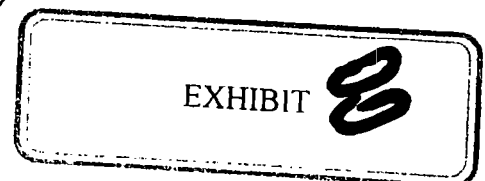
1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am an attorney for Mewbourne Oil Company.
3. Mewbourne Oil Company has conducted a good faith, diligent effort to find the names and correct addresses of the offset operators or interest owners entitled to receive 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.




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

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 dark 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

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

Postmark
Here

7017 0190 0000 8401 8497

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)

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

elivery Restricted Delivery

stricted Delivery

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

See Reverse for Instructions

m-PM

Domestic Return Receipt

U.S. Postal Service™
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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

Street and Apt. No.: EOG Y Resources, Inc.
5509 Champions Drive
City, State, ZIP+4® Midland, Texas 79706

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

See Reverse for Instructions

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

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

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

Restricted Delivery

Domestic Return Receipt

U.S. Postal Service™

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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

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

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 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

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:

COG Operating LLC - Operator
600 W. Illinois
Midland, TX 79701

9590 9402 3019 7124 7118 19

2. Article

7017 0190 0000 8401 8503

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Chuck Sims

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

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

3. Service Type

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

Restricted Delivery (over \$500)

Domestic Return Receipt

7017 0190 0000 8401 8473

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 \$

Postmark
Here

Postage

\$

Total Postage and Fees

\$

Sent To

OXY USA Inc.

P.O. Box 4294

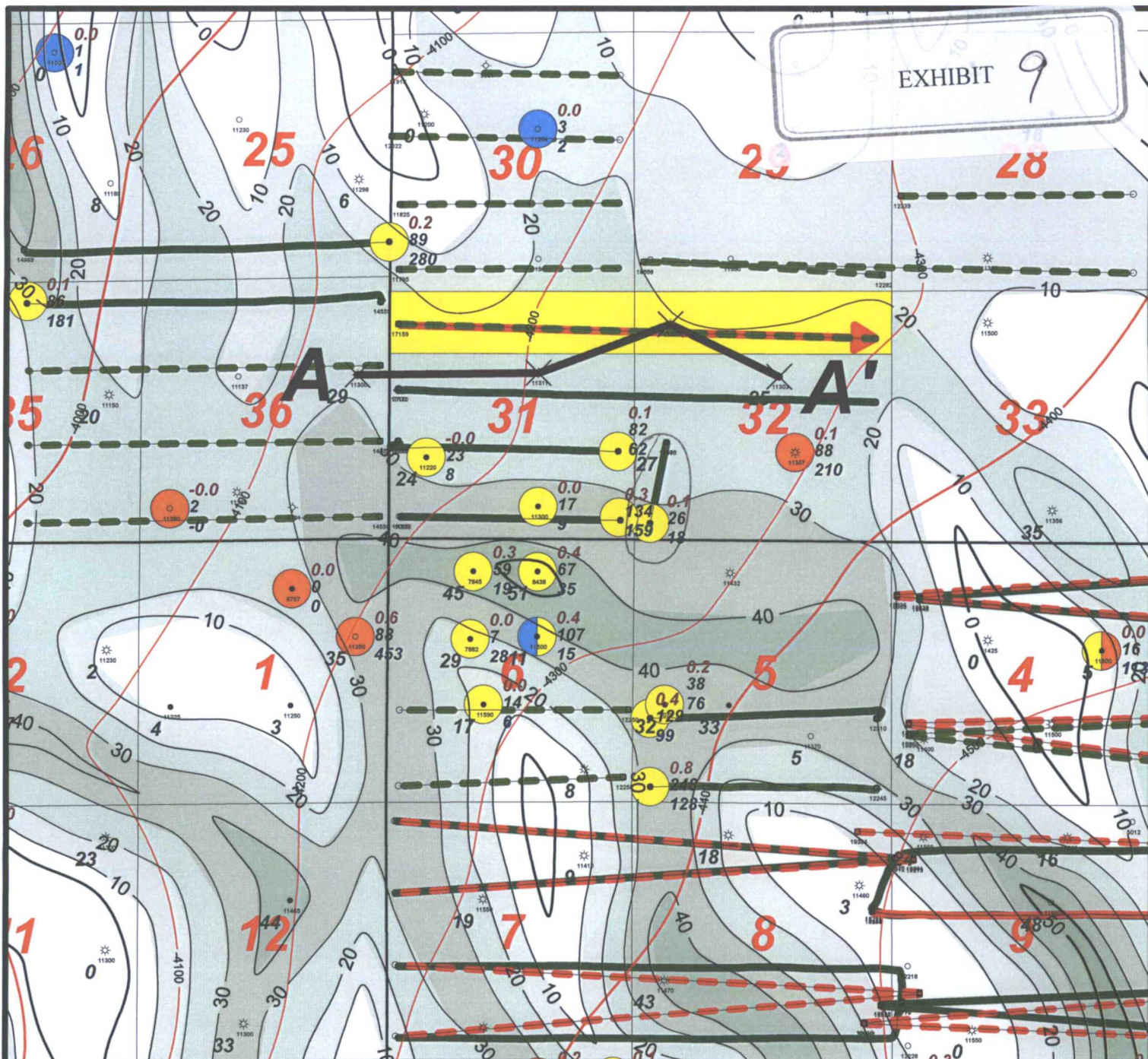
Street and Apt. No., or P.O. Box

Houston, TX 77210

City, State, ZIP+4®

PS Form 3800, April 2015. PSN 7530-02-000-8047

See Reverse for Instructions



BSPG Production Circles

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

1 inch = 3000 feet



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)



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

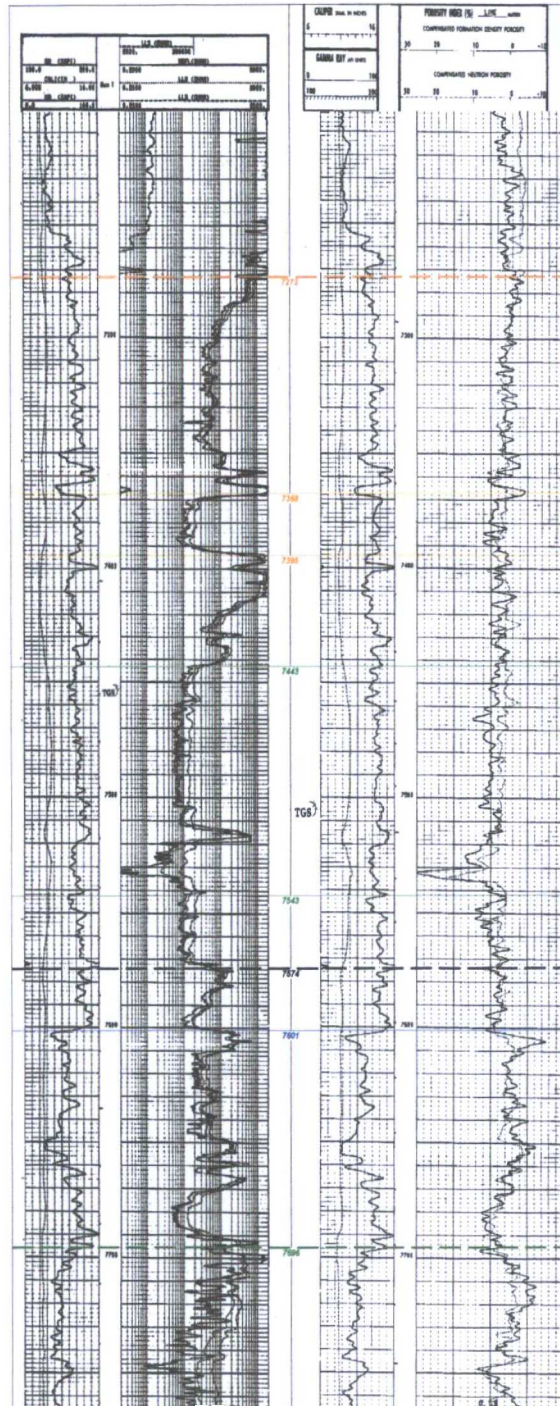
New Mexico

Wells <5000' Filtered Out

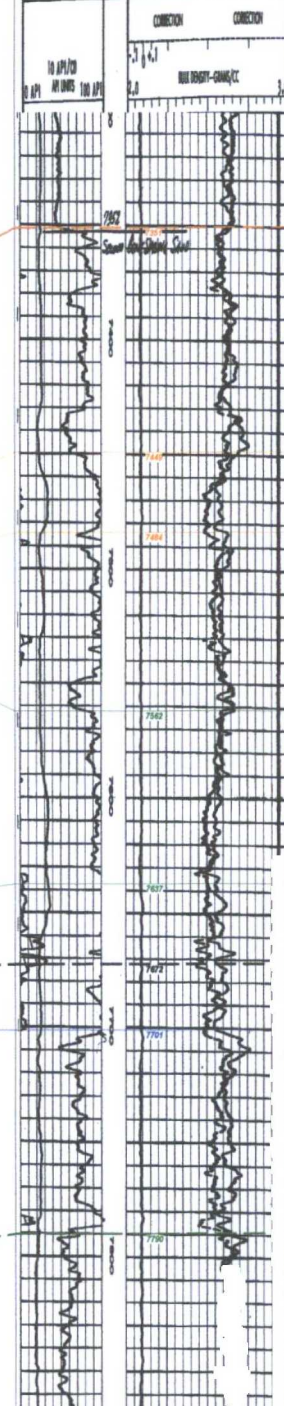
1 Inch = 3000 Feet

N.Cless

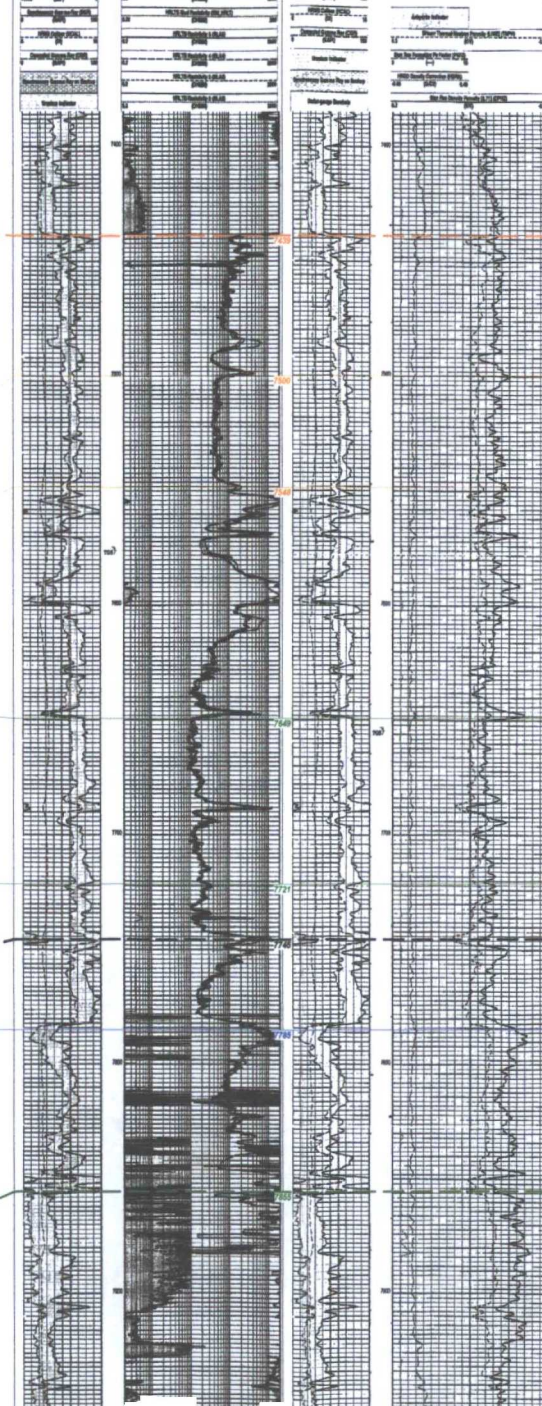
36 H



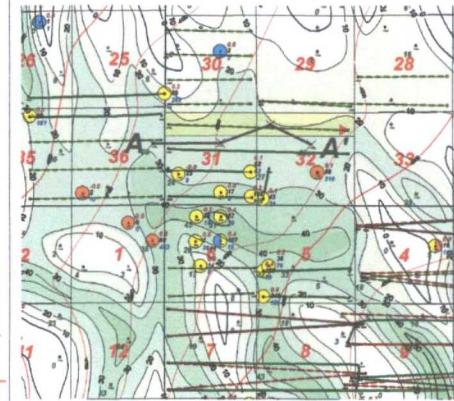
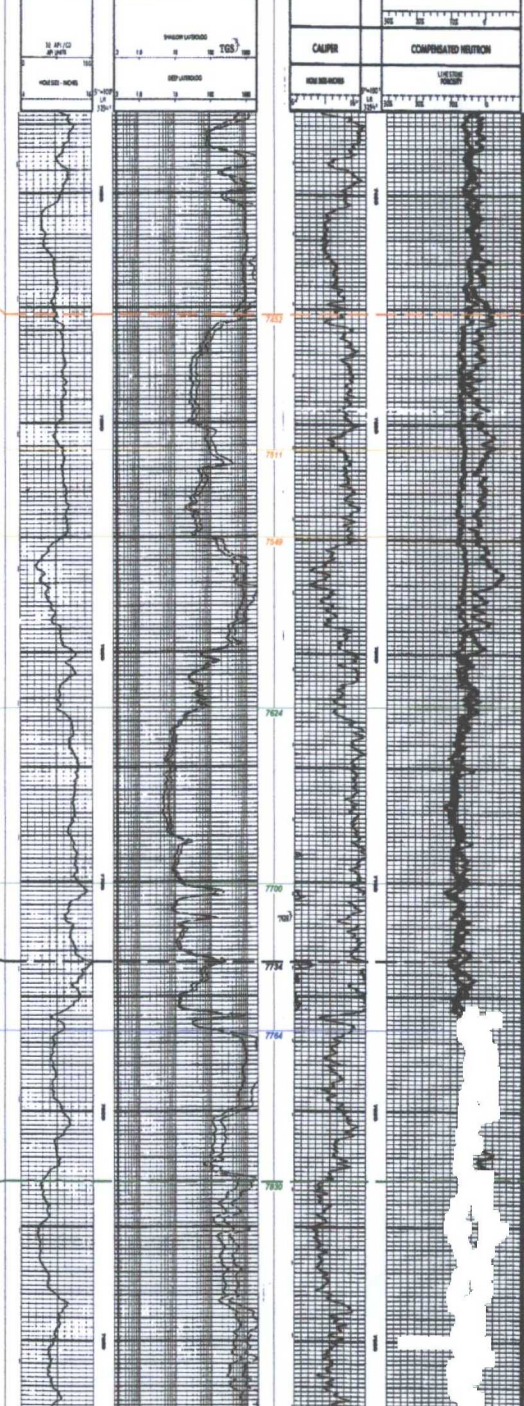
31 G



32 D



32 G



Upper 2nd BSPG Sd

Lower 2nd BSPG Sd
Horizontal Target

EXHIBIT 10

3rd BSPG Carb

Pavo Macho

A

A'

300152298600
ANADARKO PET CORP
NEW MEXICO STATE 'A' 1
Reference=KB
Datum=3424.00
C SE NE
TWP: 18 S - Range: 28 E - Sec. 36

300152180400
HONDO DRLG CO
ALSCOTT FEDERAL COM 1
Reference=KB
Datum=3434.00
SW NE
TWP: 18 S - Range: 29 E - Sec. 31

300153118600
NEARBURG PROD CO
ENTERPRISE 32 STATE 1
Reference=KB
Datum=3456.00
E2 NW NW
TWP: 18 S - Range: 29 E - Sec. 32

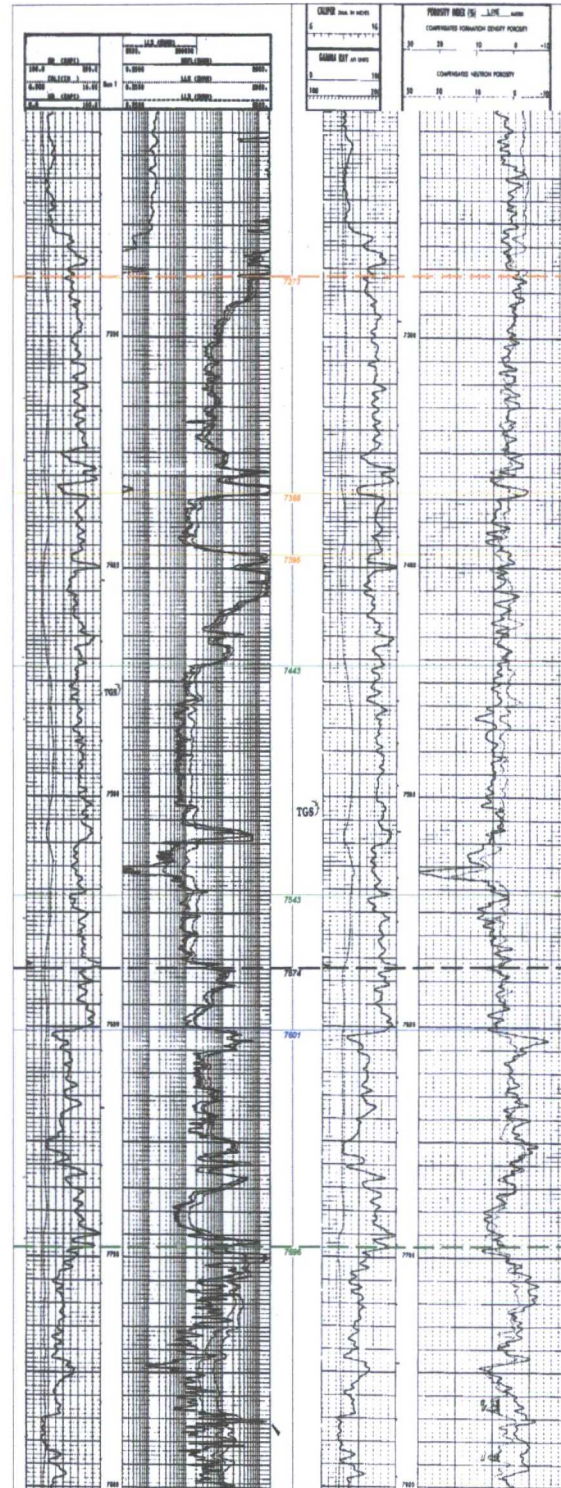
300152230900
SOUTHLAND ROYALTY CO
PALMILLO STATE COM 1
Reference=KB
Datum=3448.00
1731 FNL/2310 FEL
TWP: 18 S - Range: 29 E - Sec. 32

36 H

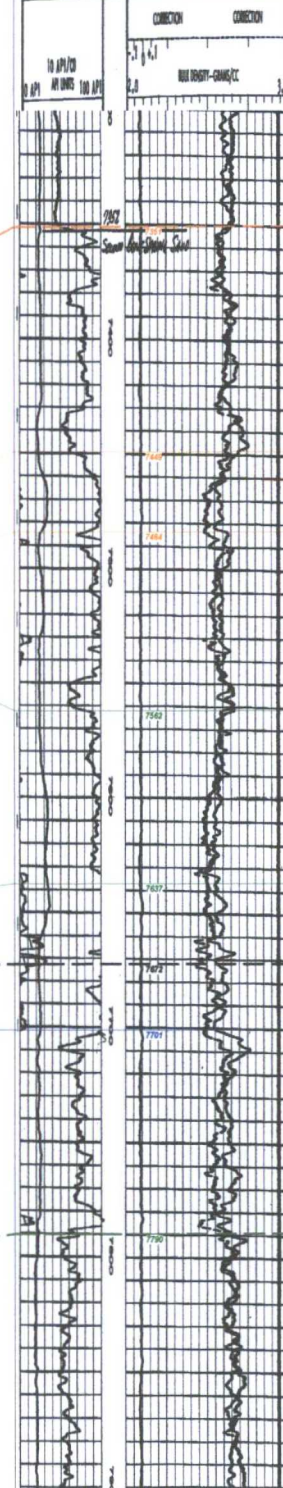
31 G

32 D

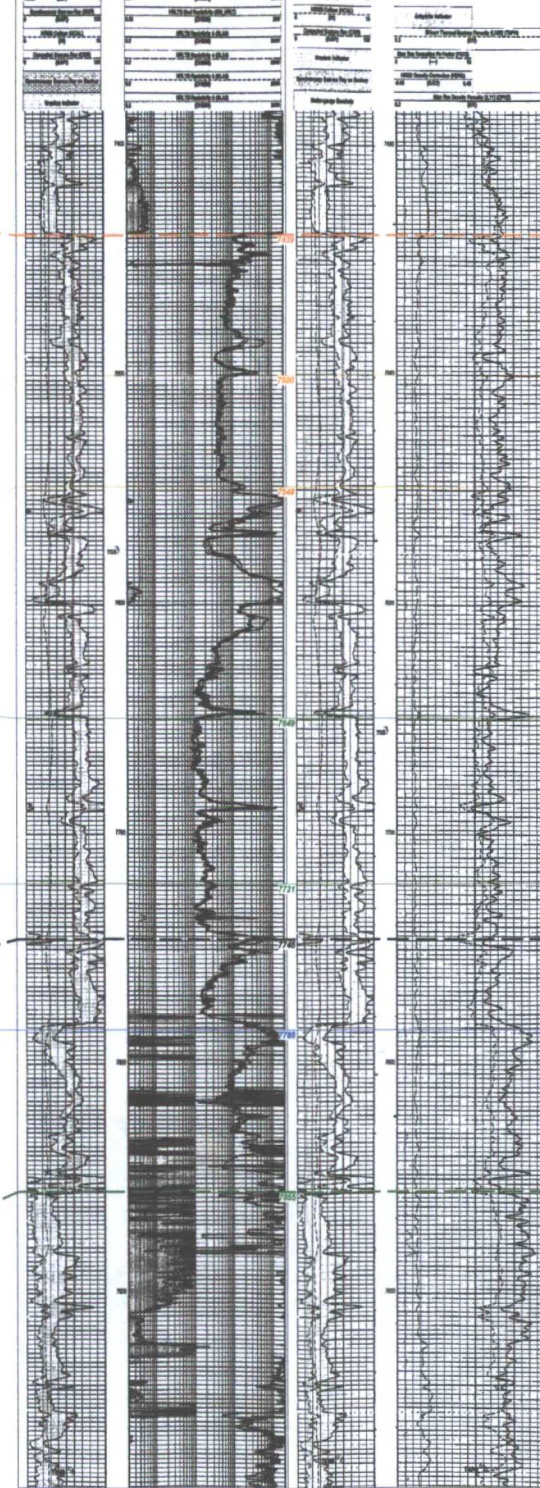
32 G



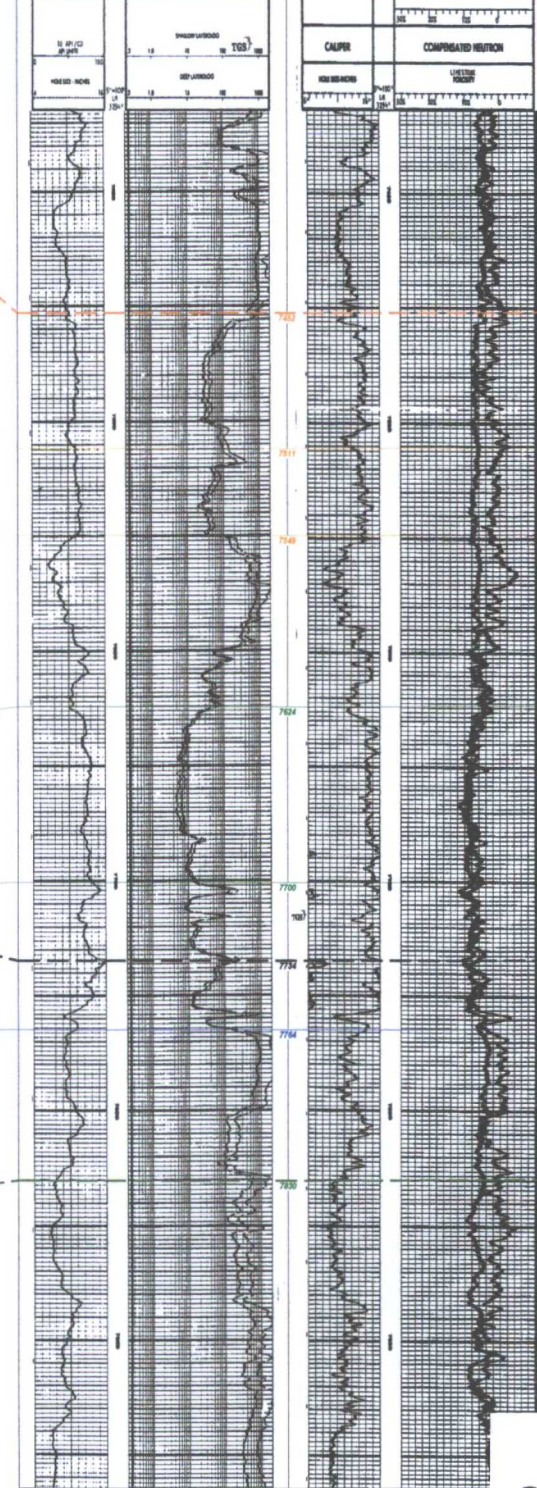
TD=11300.00
Cum Oil All Zones: 9.5 bbls
Cum Gas All Zones: 3.4 BCF
Cum Water All Zones: 7.7 bbls



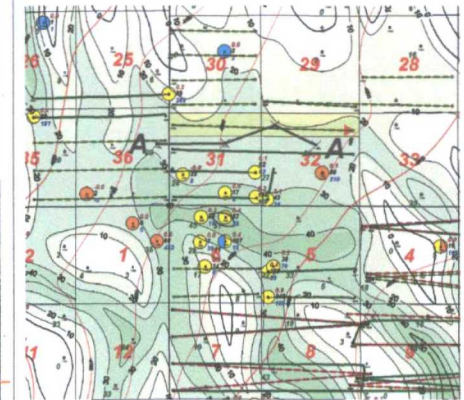
TD=11311.00
Cum Oil All Zones: 8.3 bbls
Cum Gas All Zones: 0.7 BCF
Cum Water All Zones: 1.0 bbls



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



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

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 B2IL State Com 1H	MEWBOURNE	300154295400	5IL/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 B2LI Fed Com 1H	MEWBOURNE	300154406600	31LI/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

EXHIBIT 12

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

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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

