



Before the Oil Conservation Commission

November 4, 2020

Case No. 21321

MASTIFF WELLS
LEA COUNTY, NEW MEXICO



APPLICATION OF COG OPERATING LLC
CASE NO. 20923

**BEFORE THE OIL CONSERVATION
COMMISSION**

Santa Fe, New Mexico

Case No. 21321 Exhibit No. 1

Submitted by:

COG OPERATING LLC

Hearing Date: November 4, 2020

DISTRICT I
1025 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-8101 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-8178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code	Pool Name
Property Code	Property Name MASTIFF		Well Number 201H
OGRID No.	Operator Name COG OPERATING, LLC		Elevation

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	4	24-S	32-E		50	NORTH	330	EAST	LEA

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
P	9	24-S	32-E		50	SOUTH	330	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<div>SECTION 4</div> <div>SECTION 9</div>	LOT 4	LOT 3	LOT 2	LOT 1	50'
	39.67 Ac	39.55 Ac	39.62 Ac	39.82 Ac	330'
B.H. 50' 330'					

OPERATOR CERTIFICATION

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

Signature _____ Date _____

Printed Name _____

E-mail Address _____

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.

Date of Survey _____

Signature & Seal of Professional Surveyor _____

Certificate No. **CHAD BARCROW 17777**
W.O. # **20-285** DRAWN BY: **DS**

DISTRICT I
1825 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-8181 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87506
Phone: (505) 476-3460 Fax: (505) 476-3462

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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code	Pool Name
Property Code	Property Name MASTIFF		Well Number 202H
OGRID No.	Operator Name COG OPERATING, LLC		Elevation

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	4	24-S	32-E		50	NORTH	1310	EAST	LEA

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
P	9	24-S	32-E		50	SOUTH	1310	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SECTION 4 SECTION 9	LOT 4	LOT 3	50'	S.L. 1310'
	39.67 Ac	39.55 Ac	LOT 2	LOT 1
			39.62 Ac	39.82 Ac
OPERATOR CERTIFICATION <i>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> Signature _____ Date _____ Printed Name _____ E-mail Address _____				
SURVEYOR CERTIFICATION <i>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.</i> Date of Survey _____ Signature & Seal of Professional Surveyor _____ Certificate No. CHAD HARCROW 17777 W.O. # 20-286 DRAWN BY: DS				

DISTRICT I
1825 N. FRENCH DR., HOBBS, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0720

DISTRICT II
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Phone: (505) 748-1283 Fax: (505) 748-9728

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6176 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name MASTIFF FEDERAL COM	Well Number 301H
OGRID No.	Operator Name COG OPERATING, LLC	Elevation 3676.3'

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	4	24-S	32-E		270	NORTH	330	EAST	LEA

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
P	9	24-S	32-E		50	SOUTH	330	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
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<p>NAD 83 NME <u>SURFACE LOCATION</u> Y=456427.0 N X=745743.2 E LAT.=32.253063° N LONG.=103.672119° W</p>	<p>Y=456674.8 N X=743428.7 E</p> <p>LOT 4 39.67 Ac</p> <p>LOT 3 39.55 Ac</p> <p>LOT 2 39.62 Ac</p> <p>LOT 1 39.82 Ac</p>	<p>270' S.L.O.</p> <p>Y=456700.2 N X=746071.4 E</p> <p>ETIP 100' FNL & 330' FEL Y=456597.0 N X=745742.1 E LAT.=32.253530° N LONG.=103.672119° W GRID AZ. TO ETIP 359°37'22"</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>
<p>NAD 83 NME <u>PROPOSED BOTTOM HOLE LOCATION</u> Y=446194.6 N X=745810.5 E LAT.=32.224936° N LONG.=103.672105° W</p>	<p>SECTION 04</p> <p>SECTION 09</p> <p>Y=446126.8 N X=743489.98 E</p>	<p>GRID AZ. -179°37'23" HORIZ. DIST. -10402.6'</p> <p>LEASE X-ING LAT.=32.239307° N LONG.=103.672112° W</p> <p>LEASE X-ING LAT.=32.232054° N LONG.=103.672108° W</p> <p>LIP 100' FSL & 330' FEL Y=446244.6 N X=745810.2 E LAT.=32.225073° N LONG.=103.672105° W</p> <p>50' B.H.</p> <p>Y=446147.2 N X=746140.8 E</p>	<p>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>OCTOBER 3, 2019</p> <p>Date of Survey</p> <p>Signature & Seal of Professional Surveyor</p> <p></p> <p>Chad Harcrow 10/12/19 Certificate No. CHAD HARCROW 17777 W.O. # 1765 DRAWN BY: AH</p>

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (505) 953-6161 Fax: (505) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 748-1293 Fax: (505) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6176 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3400 Fax: (505) 476-3402

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
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District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name MASTIFF FEDERAL COM	Well Number 302H
OGRID No.	Operator Name COG OPERATING, LLC	Elevation 3678.3'

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	4	24-S	32-E		270	NORTH	930	EAST	LEA

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
P	9	24-S	32-E		50	SOUTH	730	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>Y=456674.8 N X=743428.7 E LOT 4 39.67 Ac LOT 3 39.55 Ac NAD 83 NME SURFACE LOCATION Y=456421.2 N X=745143.2 E LAT.=32.253057° N LONG.=103.674059° W</p> <p>SECTION 4 SECTION 9</p> <p>NAD 83 NME PROPOSED BOTTOM HOLE LOCATION Y=446191.6 N X=745410.5 E LAT.=32.224934° N LONG.=103.673398° W</p> <p>Y=446126.8 N X=743490.0 E</p>	<p>270' 930' S.L.</p> <p>Y=456700.2 N X=746071.4 E FIP 100' FSL & 730' FEL Y=456593.2 N X=745342.1 E LAT.=32.253526° N LONG.=103.673413° W GRID AZ. TO FIP 49°09'05"</p> <p>LEASE X-ING LAT.=32.239308° N LONG.=103.673405° W</p> <p>GRID AZ. - 179°37'23" HORIZ. DIST. - 10401.8'</p> <p>LEASE X-ING LAT.=32.232053° N LONG.=103.673402° W</p> <p>LTP 100' FSL & 730' FEL Y=446241.6 N X=745410.2 E LAT.=32.225072° N LONG.=103.673398° W</p> <p>Y=446147.2 N X=746140.8 E</p> <p>B.H. 50' 730'</p>	<p>OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p>SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>OCTOBER 3, 2019 Date of Survey _____</p> <p>Signature & Seal of Professional Surveyor</p> <p></p> <p>Chad Harcrow 10/11/19 Certificate No. CHAD HARCROW 17777 W.O. # 19-1770 DRAWN BY: WN</p>
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DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6181 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1263 Fax: (575) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 478-3480 Fax: (505) 478-3482

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name MASTIFF	Well Number 501H
GRID No.	Operator Name COG OPERATING, LLC	Elevation

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	4	24-S	32-E		50	NORTH	660	EAST	LEA

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
P	9	24-S	32-E		50	SOUTH	660	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

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LOT 4 39.67 Ac	LOT 3 39.55 Ac	LOT 2 39.62 Ac	LOT 1 39.82 Ac
SECTION 4			
SECTION 9			
50' S.L. 660'			
50' B.H. 660'			

OPERATOR CERTIFICATION

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

Signature _____ Date _____

Printed Name _____

E-mail Address _____

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.

Date of Survey _____

Signature & Seal of Professional Surveyor _____

Certificate No. CHAD HARCROW 17777
W.O. # 20-288 DRAWN BY: AH

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87506
Phone: (505) 476-3460 Fax: (505) 476-3462

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API Number	Pool Code	Pool Name
Property Code	Property Name MASTIFF	Well Number 502H
OGRID No.	Operator Name COG OPERATING, LLC	Elevation

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	4	24-S	32-E		50	NORTH	990	EAST	LEA

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	9	24-S	32-E		50	SOUTH	990	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

PLAT MAP OF SECTION 4 AND SECTION 9, T36N, R12E, CO. LINCOLN, NEB.

SECTION 4

SECTION 9

LOT 4 39.67 Ac

LOT 3 39.55 Ac

LOT 2 39.62 Ac

LOT 1 39.82 Ac

50' 990'

50' 990'

1" = 40'

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

Signature _____ Date _____

Printed Name _____

E-mail Address

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.

Date of Survey

Signature & Seal of Professional Surveyor

Certificate No. CHAD HARCROW 17777
W.O. # 20-289 DRAWN BY: DS

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3480 Fax: (505) 476-3482

Certificate No. CHAD HARCROW 17777
W.O. # 20-287 DRAWN BY: DS

DISTRICT I
1625 N. FRENCH DR., HOBBES, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name MASTIFF FEDERAL COM	Well Number 303H
OGRID No.	Operator Name COG OPERATING, LLC	Elevation 3678.8'

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	4	24-S	32-E		270	NORTH	1020	EAST	LEA

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
P	9	24-S	32-E		50	SOUTH	1010	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
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<p>Y=456674.8 N X=743428.7 E LOT 4 39.67 Ac LOT 3 39.55 Ac NAD 83 NME SURFACE LOCATION Y=456420.3 N X=745053.2 E LAT.=32.253056° N LONG.=103.674351° W</p> <p>SECTION 4 SECTION 9</p> <p>NAD 83 NME PROPOSED BOTTOM HOLE LOCATION Y=446189.4 N X=745130.5 E LAT.=32.224933° N LONG.=103.674304° W</p> <p>Y=446126.8 N X=743490.0 E</p>	<p>270' 0" 1020' S.L.</p> <p>LOT 2 39.62 Ac LOT 1 39.82 Ac</p> <p>100' FNL & 1010' FEL Y=456590.5 N X=745062.1 E LAT.=32.253524° N LONG.=103.674318° W GRID AZ. TO FTP 03°00'21"</p> <p>LEASE X-ING LAT.=32.239308° N LONG.=103.674311° W</p> <p>GRID AZ. - 179°37'23" HORZ. DIST. - 10401.3'</p> <p>LEASE X-ING LAT.=32.232052° N LONG.=103.674307° W</p> <p>LTP 100' FSL & 1010' FEL Y=446239.4 N X=745130.2 E LAT.=32.225070° N LONG.=103.674304° W</p> <p>Y=446147.2 N X=746140.8 E</p> <p>B.H. 50' 1010'</p>	<p>OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p>SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>OCTOBER 3, 2019 Date of Survey _____</p> <p>Signature & Seal of Professional Surveyor  10/11/19 Certificate No. CHAD HARCROW 17777 W.O. # 19-1767 DRAWN BY: WN</p>
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API Number	Pool Code	Pool Name
Property Code	Property Name MASTIFF FED COM	Well Number 304H
OGRID No.	Operator Name COG OPERATING, LLC	Elevation 3684.0'

Surface Location


UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	4	24-S	32-E		270	NORTH	1620	EAST	LEA

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
0	9	24-S	32-E		50	SOUTH	1485	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>NAD 83 NME <u>SURFACE LOCATION</u> Y=456414.6 N X=744453.3 E LAT.=32.253051' N LONG.=103.676291' W</p>	<p>Y=456674.8 N X=743428.7 E LOT 4 39.67 Ac LOT 3 39.55 Ac LOT 2 39.62 Ac LOT 1 39.82 Ac</p>	<p>Y=456700.2 N X=746071.4 E FIP 100' FNL & 1485' FEL Y=456585.9 N X=744587.1 E LAT.=32.253519' N LONG.=103.675855' W GRID AZ. TO FIP 38°00'24"</p>	<p>OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unless 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>
<p>NAD 83 NME <u>PROPOSED BOTTOM HOLE LOCATION</u> Y=446185.8 N X=744655.5 E LAT.=32.224931' N LONG.=103.675840' W</p>	<p>Y=446126.8 N X=743490.0 E</p>	<p>LEASE X-ING LAT.=32.232050' N LONG.=103.675843' W LIP 100' FSL & 1485' FEL Y=446235.8 N X=744655.2 E LAT.=32.225068' N LONG.=103.675840' W Y=446147.2 N X=746140.8 E</p>	<p>SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>OCTOBER 4, 2019 Date of Survey</p> <p>Signature & Seal of Professional Surveyor</p> <p> Chad Harcrow 10/13/19 Certificate No. CHAD HARCROW 17777 W.O. # 19-1774 DRAWN BY: AH</p>

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 593-6161 Fax: (575) 393-9720

DISTRICT II
611 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 478-3480 Fax: (505) 478-3482

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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Revised August 1, 2011
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name MASTIFF FEDERAL COM	Well Number 305H
GRID No.	Operator Name COG OPERATING, LLC	Elevation 3683.0'

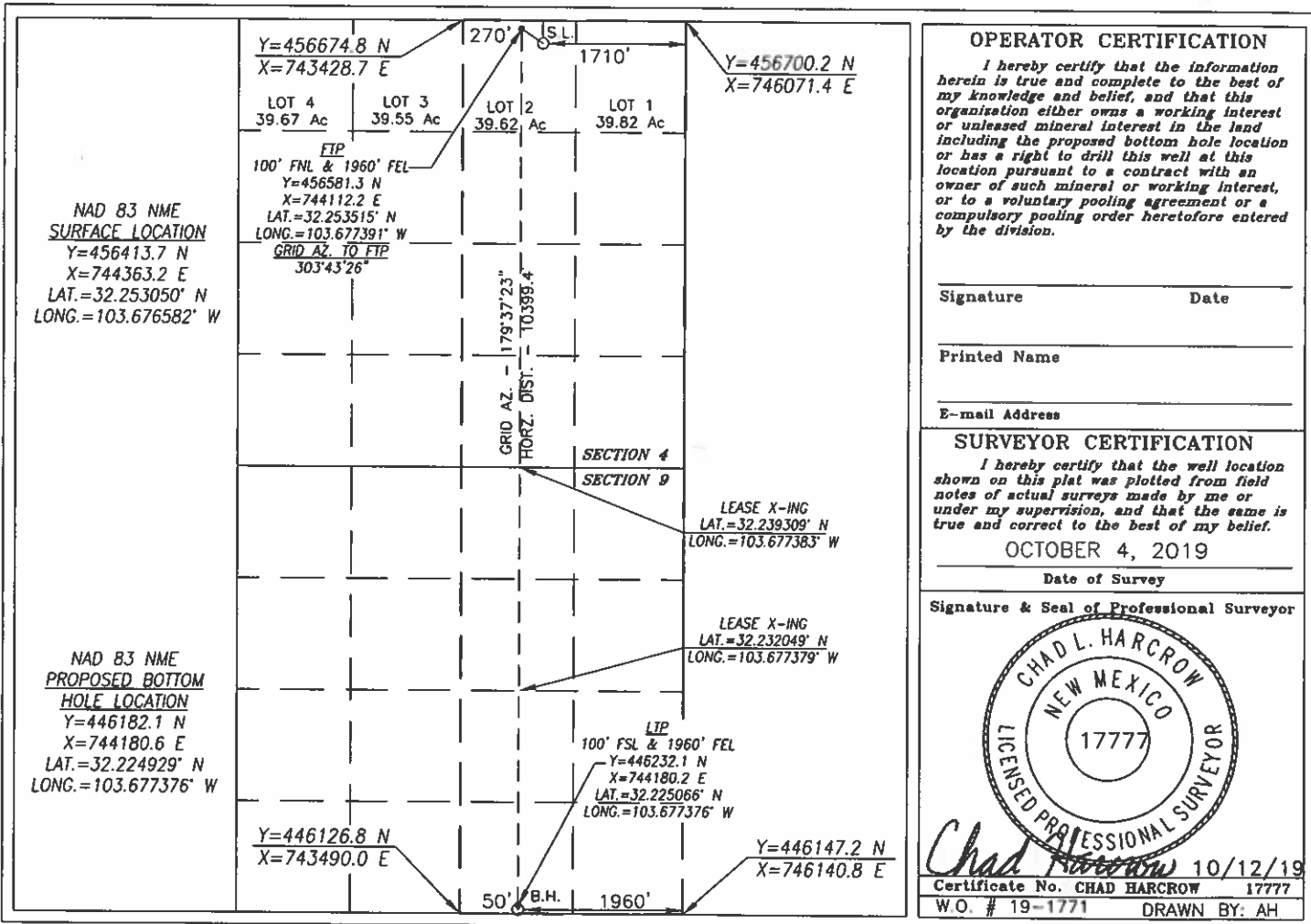
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	4	24-S	32-E		270	NORTH	1710	EAST	LEA

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
0	9	24-S	32-E		50	SOUTH	1960	EAST	LEA
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87506
Phone: (505) 476-3480 Fax: (505) 476-3462

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☐ AMENDED REPORT

API Number		Pool Code	Pool Name
Property Code	Property Name MASTIFF		Well Number 503H
OGRID No.	Operator Name COG OPERATING, LLC		Elevation

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	4	24-S	32-E		50	NORTH	1650	EAST	LEA

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	9	24-S	32-E		50	SOUTH	1650	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

[illegible]

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6151 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 746-1283 Fax: (575) 746-0720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6176 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87506
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code	Pool Name
Property Code	Property Name MASTIFF		Well Number 504H
OGRID No.	Operator Name COG OPERATING, LLC		Elevation

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	4	24-S	32-E		50	NORTH	1980	EAST	LEA

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
0	9	24-S	32-E		50	SOUTH	1980	EAST	LEA
Dedicated Acres		Joint or Infill		Consolidation Code		Order No.			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SECTION 4 SECTION 9	LOT 4 39.67 Ac	LOT 3 39.55 Ac	50' S.L. 1980' LOT 2 39.62 Ac	LOT 1 39.82 Ac

OPERATOR CERTIFICATION

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

Signature _____ Date _____

Printed Name _____

E-mail Address _____

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.

Date of Survey _____

Signature & Seal of Professional Surveyor _____

Certificate No. CHAD HARCROW 17777
W.O. # 20-291 DRAWN BY: DS

APPLICATION OF COG OPERATING LLC
CASE NO. 20924

DISTRICT I
1825 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 363-0161 Fax: (575) 393-0720

DISTRICT II
611 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 478-3460 Fax: (505) 478-3462

State of New Mexico
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OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name MASTIFF	Well Number 204H
GRID No.	Operator Name COG OPERATING, LLC	Elevation

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	4	24-S	32-E		50	SOUTH	1720	WEST	LEA

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
C	33	23-S	32-E		50	NORTH	1720	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
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				<p>OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p>SURVEYOR CERTIFICATION</p> <p><i>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.</i></p> <p>Date of Survey _____</p> <p>Signature & Seal of Professional Surveyor _____</p> <p>Certificate No. CHAD HARCROW 17777 W.O. #20-292 DRAWN BY: WN</p>
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DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

CHAD HARCROW 10/13/19
Certificate No. CHAD HARCROW 17777
W.O. # 19-1778 DRAWN BY: DS

DISTRICT I
1826 N. FRENCH DR., HOBBS, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-9720

DISTRICT II
611 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 748-1263 Fax: (505) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 478-3460 Fax: (505) 478-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name MASTIFF FEDERAL COM	Well Number 307H
OGRID No.	Operator Name COG OPERATING, LLC	Elevation 3675.3'

Surface Location


UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	4	24-S	32-E		350	NORTH	2370	EAST	LEA

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
0	9	24-S	32-E		50	SOUTH	2635	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>Y=456672.4 N X=742108.7 E</p> <p>LOT 4 39.67 Ac</p> <p>LOT 3 39.55 Ac</p> <p>LOT 2 39.62 Ac</p> <p>LOT 1 39.82 Ac</p> <p>100' FNL & 2635' FEL Y=456574.9 N X=743437.2 E LAT.=32.253508° N LONG.=103.679575° W GRID AZ. TO TIP 312°51'38"</p> <p>LEASE X-ING LAT.=32.239309° N LONG.=103.679567° W</p> <p>LEASE X-ING LAT.=32.232046° N LONG.=103.679562° W</p> <p>100' FSL & 2635' FEL Y=446227.0 N X=743505.2 E LAT.=32.225063° N LONG.=103.679558° W</p> <p>Y=446116.7 N X=742164.6 E</p>	<p>350'</p> <p>S.L. 2370'</p> <p>Y=456687.5 N X=744750.1 E</p> <p>NAD 83 NME <u>SURFACE LOCATION</u> Y=456327.4 N X=743703.8 E LAT.=32.252823° N LONG.=103.678717° W</p> <p>GRID AZ. - 179°37'23" HORZ. DIST. - 10398.1'</p> <p>SECTION 4 SECTION 9</p> <p>50' B.H. 2635'</p> <p>Y=446137.0 N X=744815.4 E</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p>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>OCTOBER 4, 2019</p> <p>Date of Survey _____</p> <p>Signature & Seal of Professional Surveyor</p> <p></p> <p>Chad Harcrow 10/13/19</p> <p>Certificate No. CHAD HARCROW 17777</p> <p>W.O. # 19-1775 DRAWN BY: DS</p>
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DISTRICT I
1825 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 893-6191 Fax: (575) 395-9720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 478-3460 Fax: (505) 478-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name MASTIFF	Well Number 205H
OGRID No.	Operator Name COG OPERATING, LLC	Elevation

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	4	24-S	32-E		50	SOUTH	730	WEST	LEA

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
D	33	23-S	32-E		50	NORTH	730	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

				<p>OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p>SURVEYOR CERTIFICATION</p> <p><i>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.</i></p> <p>Date of Survey _____</p> <p>Signature & Seal of Professional Surveyor _____</p> <p>Certificate No. CHAD HARCROW 17777 W.O. #20-293 DRAWN BY: WN</p>
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DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-0161 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 RD., 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
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Santa Fe, New Mexico 87505

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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name MASTIFF FEDERAL COM	Well Number 308H
GRID No.	Operator Name COG OPERATING, LLC	Elevation 3637.4'

Surface Location


UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	4	24-S	32-E		270	SOUTH	2280	WEST	LEA

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
C	33	23-S	32-E		50	NORTH	2160	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
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<p>Y=461932.2 N X=740755.1 E</p> <p>LTP 100' FNL & 2160' FWL Y=461852.7 N X=742915.6 E LAT.=32.268024' N LONG.=103.681158' W</p> <p>LEASE X-ING LAT.=32.253789' N LONG.=103.681187' W</p> <p>FIP 100' FSL & 2160' FWL Y=451505.5 N X=742960.8 E LAT.=32.239582' N LONG.=103.681215' W GRID AZ. TO FIP 214°57'35"</p> <p>Y=451388.6 N X=740801.1 E</p>	<p>2160' B.H. 50'</p> <p>Y=461957.3 N X=743396.9 E</p> <p>Y=461902.7 N X=742915.4 E LAT.=32.268162' N LONG.=103.681158' W</p> <p>GRID AZ. - 359°44'59" HORZ. DIST. - 10397.4'</p> <p>SECTION 33 SECTION 4</p> <p>LOT 4 39.67 Ac LOT 3 39.55 Ac LOT 2 39.62 Ac LOT 1 39.82 Ac</p> <p>2280' 270'</p> <p>Y=451409.3 N X=743455.5 E</p>	<p>NAD 83 NME <u>PROPOSED BOTTOM HOLE LOCATION</u> Y=461902.7 N X=742915.4 E LAT.=32.268162' N LONG.=103.681158' W</p> <p>NAD 83 NME <u>SURFACE LOCATION</u> Y=451676.4 N X=743080.3 E LAT.=32.240050' N LONG.=103.680825' W</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p>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>OCTOBER 8, 2019</p> <p>Date of Survey _____</p> <p>Signature & Seal of Professional Surveyor</p> <p></p> <p>Chad Harcrow 10/15/19 Certificate No. CHAD HARCROW 17777 W.O. # 19-1779 DRAWN BY: AH</p>
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DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (505) 393-6101 Fax: (505) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 748-1283 Fax: (505) 748-9720

DISTRICT III
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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

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Santa Fe, New Mexico 87505

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name MASTIFF FEDERAL COM	Well Number 309H
OGRID No.	Operator Name COG OPERATING, LLC	Elevation 3637.6'


Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	4	24-S	32-E		270	SOUTH	2250	WEST	LEA

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
C	33	23-S	32-E		50	NORTH	1960	WEST	LEA
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>Y=461932.2 N X=740755.1 E</p> <p>1960' B.H. 50'</p> <p>Y=461957.3 N X=743396.9 E</p> <p>LTP 100' FNL & 1960' FWL Y=461850.8 N X=742715.6 E LAT.=32.268022° N LONG.=103.681805° W</p> <p>GRID AZ. = 359°44'59" HORZ. DIST. = 10397.0'</p> <p>LEASE X-ING LAT.=32.253791° N LONG.=103.681834° W</p> <p>LOT 4 39.67 Ac</p> <p>LOT 3 39.35 Ac</p> <p>LOT 2 39.62 Ac</p> <p>LOT 1 39.82 Ac</p> <p>SECTION 33</p> <p>SECTION 4</p> <p>FTP 100' FSL & 1960' FWL Y=451503.9 N X=742760.8 E LAT.=32.239581° N LONG.=103.681862° W GRID AZ. TO FTP 239°14'40"</p> <p>Y=451388.6 N X=740801.1 E</p> <p>2250'</p> <p>S.L. 270'</p> <p>Y=451409.3 N X=743455.5 E</p> <p>NAD 83 NME <u>PROPOSED BOTTOM HOLE LOCATION</u> Y=461900.8 N X=742715.4 E LAT.=32.268160° N LONG.=103.681805° W</p> <p>NAD 83 NME <u>SURFACE LOCATION</u> Y=451676.2 N X=743050.3 E LAT.=32.240049° N LONG.=103.680922° W</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p>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>OCTOBER 8, 2019</p> <p>Date of Survey _____</p> <p>Signature & Seal of Professional Surveyor</p> <p></p> <p>Chad Harcrow 10/15/19</p> <p>Certificate No. CHAD HARCROW 17777</p> <p>W.O. # 19-1779 DRAWN BY: AH</p>
---	--

DISTRICT I
1825 N. FRENCH DR., HOBBS, NM 86240
Phone: (575) 393-6161 Fax: (575) 393-9720

DISTRICT II
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Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6176 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025	Pool Code	Pool Name
Property Code	Property Name MASTIFF FEDAERL COM	Well Number 310H
OGRID No. 229137	Operator Name COG OPERATING, LLC.	Elevation 3637.3'


Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	4	24-S	32-E		270	SOUTH	1250	WEST	LEA

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
C	33	23-S	32-E		50	NORTH	1485	WEST	LEA
Dedicated Acres 639	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>Y=461932.2 N X=740755.1 E</p> <p>LTP 100' FNL & 1485' FWL Y=461846.3 N X=742240.6 E LAT.=32.268018° N LONG.=103.683342° W</p> <p>NMN077063</p> <p>LEASE X-ING LAT.=32.253797° N LONG.=103.683370° W</p> <p>LOT 4 39.67 Ac</p> <p>LOT 3 39.55 Ac</p> <p>LOT 2 39.62 Ac</p> <p>LOT 1 39.82 Ac</p> <p>FTP 100' FSL & 1485' FWL Y=451500.2 N X=742285.8 E LAT.=32.239578° N LONG.=103.683398° W GRID AZ. TO FTP 125°32'51"</p> <p>Y=451388.6 N X=740801.1 E</p> <p>1250'</p> <p>270'</p> <p>S.L.</p>	<p>1485'</p> <p>B.H. 50'</p> <p>Y=461957.3 N X=743396.9 E</p> <p>Y=461896.3 N Y=742240.4 E LAT.=32.268155° N LONG.=103.683342° W</p> <p>GRID AZ. - 359°44'59" HORZ. DIST. - 10396.2'</p> <p>SECTION 33</p> <p>SECTION 04</p> <p>NMN111965</p> <p>NAD 83 NME SURFACE LOCATION Y=451668.4 N X=742050.4 E LAT.=32.240045° N LONG.=103.684156° W</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Mayte Reyes Printed Name mreyes1@concho.com E-mail Address</p> <p>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>OCTOBER 8, 2019 Date of Survey</p> <p>Signature & Seal of Professional Surveyor</p> <p></p> <p>Chad HARCROW 10/14/19 Certificate No. CHAD HARCROW 17777 W.O. # 19-1785 DRAWN BY: AH</p>
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DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0780

DISTRICT II
511 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 746-1283 Fax: (575) 746-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6176 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3480 Fax: (505) 476-3482

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name MASTIFF	Well Number 505H
OGRID No.	Operator Name COG OPERATING, LLC	Elevation

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	4	24-S	32-E		50	SOUTH	990	WEST	LEA

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
D	33	23-S	32-E		50	NORTH	990	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>990' 50'</p> <p>SECTION 33</p> <p>LOT 4 39.67 Ac</p> <p>LOT 3 39.55 Ac</p> <p>LOT 2 39.62 Ac</p> <p>LOT 1 39.82 Ac</p> <p>SECTION 4</p> <p>990' 50'</p>				<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p>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>Date of Survey _____</p> <p>Signature & Seal of Professional Surveyor _____</p> <p>Certificate No. CHAD HARCROW 17777 W.O. #20-295 DRAWN BY: WN</p>
--	--	--	--	--

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-8181 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 RD., AZTEC, NM 87410
Phone: (505) 334-6176 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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Revised August 1, 2011
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District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code	Pool Name
Property Code	Property Name MASTIFF		Well Number 506H
OGRID No.	Operator Name COG OPERATING, LLC		Elevation

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	4	24-S	32-E		50	SOUTH	330	WEST	LEA

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
D	33	23-S	32-E		50	NORTH	330	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

OPERATOR CERTIFICATION <i>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> _____ Signature Date _____ Printed Name _____ E-mail Address			
SURVEYOR CERTIFICATION <i>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.</i> _____ Date of Survey Signature & Seal of Professional Surveyor			
Certificate No. CHAD HARCROW 17777 W.O. #20-295 DRAWN BY: WN			

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0729

DISTRICT II
611 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9729

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code	Pool Name
Property Code	Property Name MASTIFF		Well Number 507H
OGRID No.	Operator Name COG OPERATING, LLC		Elevation

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	4	24-S	32-E		50	SOUTH	1355	WEST	LEA

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
C	33	23-S	32-E		50	NORTH	1355	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

**NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
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				<p>OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p>SURVEYOR CERTIFICATION</p> <p><i>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.</i></p> <p>Date of Survey _____</p> <p>Signature & Seal of Professional Surveyor _____</p> <p>Certificate No. CHAD HARCROW 17777 W.O. #20-293 DRAWN BY: WN</p>
--	--	--	--	---

APPLICATION OF COG OPERATING LLC
CASE NO. 20925

DISTRICT I
1625 N. FRENCH DR., HOBBES, NM 88240
Phone: (575) 393-6101 Fax: (575) 393-0720

DISTRICT II
511 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-8178 Fax: (505) 334-8170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3482

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name	Well Number
	MASTIFF FEDERAL COM	701H
OGRID No.	Operator Name	Elevation
	COG OPERATING, LLC	3675.0'

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	4	24-S	32-E		270	NORTH	360	EAST	LEA

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
P	9	24-S	32-E		50	SOUTH	330	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>
	<p>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>OCTOBER 3, 2019</p> <p>Date of Survey _____</p> <p>Signature & Seal of Professional Surveyor</p> <p></p> <p>Chad L. Harcrow 10/12/19</p> <p>Certificate No. CHAD HARCROW 17777</p> <p>W.O. # 19-1764 DRAWN BY: AH</p>

Chad Harcrow 10/11/19
Certificate No. CHAD HARCROW 17777
W.O. # 19-1769 DRAWN BY: WN

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-8181 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 RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name MASTIFF FEDERAL COM	Well Number 703H
OGRID No.	Operator Name COG OPERATING, LLC	Elevation 3683.6'

Surface Location

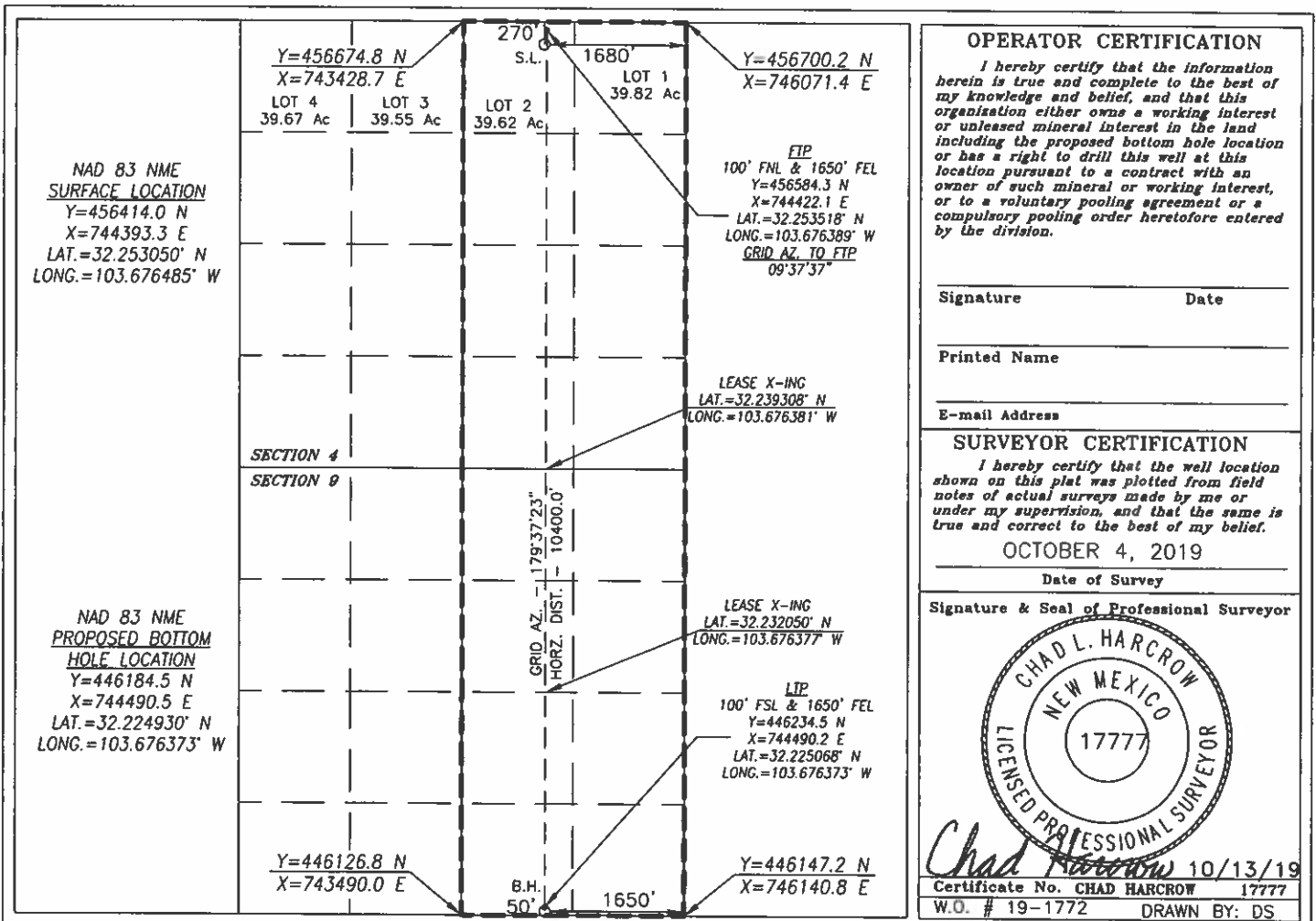
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	4	24-S	32-E		270	NORTH	1680	EAST	LEA

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
0	9	24-S	32-E		50	SOUTH	1650	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

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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 RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name MASTIFF FEDERAL COM	Well Number 704H
OGRID No.	Operator Name COG OPERATING, LLC	Elevation 3676.6'

Surface Location

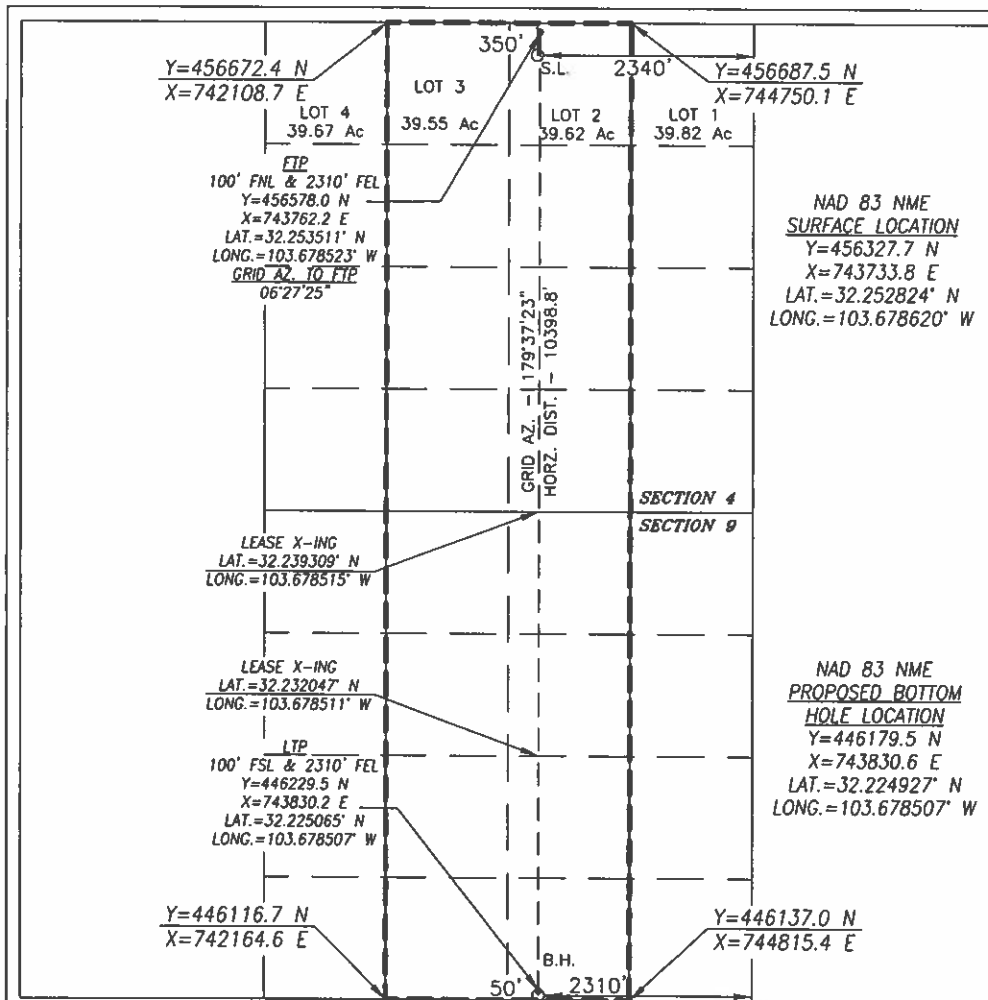
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	4	24-S	32-E		350	NORTH	2340	EAST	LEA

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
0	9	24-S	32-E		50	SOUTH	2310	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

**NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION**



OPERATOR CERTIFICATION

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

Signature

Date

Printed Name

E-mail Address

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.

OCTOBER 4, 2019

Date of Survey

Signature & Seal of Professional Surveyor



Chad Harcrow 10/13/19
Certificate No. CHAD HARCROW 17777
W.O. # 19-1776 DRAWN BY: DS

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-8161 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 RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
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Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name MASTIFF FEDERAL COM	Well Number 705H
OGRID No.	Operator Name COG OPERATING, LLC	Elevation 3637.9'

Surface Location

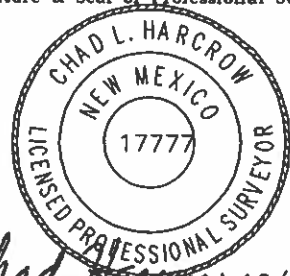
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	4	24-S	32-E		270	SOUTH	2310	WEST	LEA

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
C	33	23-S	32-E		50	NORTH	2310	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>Y=461932.2 N X=740755.1 E LTP 100' FNL & 2310' FWL Y=461854.2 N X=743065.6 E LAT.=32.268026° N LONG.=103.680673° W</p> <p>LEASE X-ING LAT.=32.253787° N LONG.=103.680702° W</p> <p>FIP 100' FSL & 2310' FWL Y=451506.6 N X=743110.8 E LAT.=32.239582° N LONG.=103.680730° W GRID AZ. TO FIP 179°51'52"</p> <p>Y=451388.6 N X=740801.1 E</p>	<p>2310'</p> <p>50'</p> <p>GRID AZ. = 359°44'59" HORZ. DIST. = 10397.6'</p> <p>SECTION 33</p> <p>SECTION 4</p> <p>LOT 4 39.67 Ac</p> <p>LOT 3 39.55 Ac</p> <p>LOT 2 39.62 Ac</p> <p>LOT 1 39.82 Ac</p> <p>2310'</p> <p>270'</p>	<p>NAD 83 NME <u>PROPOSED BOTTOM HOLE LOCATION</u> Y=461904.2 N X=743065.4 E LAT.=32.268163° N LONG.=103.680673° W</p> <p>NAD 83 NME <u>SURFACE LOCATION</u> Y=451676.6 N X=743110.4 E LAT.=32.240050° N LONG.=103.680728° W</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p>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>OCTOBER 8, 2019</p> <p>Date of Survey _____</p> <p>Signature & Seal of Professional Surveyor</p> <p></p> <p>Chad Harcrow 10/15/19 Certificate No. CHAD HARCROW 17777 W.O. # 19-1781 DRAWN BY: AH</p>
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APPLICATION OF COG OPERATING LLC
CASE NO. 20926

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (505) 393-8161 Fax: (505) 393-9720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 748-1293 Fax: (505) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-8170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name MASTIFF FEDERAL COM	Well Number 706H
OGRID No.	Operator Name COG OPERATING, LLC	Elevation 3637.0'

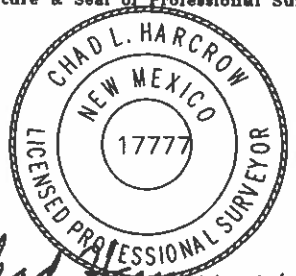
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	4	24-S	32-E		270	SOUTH	1280	WEST	LEA

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
C	33	23-S	32-E		50	NORTH	1650	WEST	LEA
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>Y=461932.2 N X=740755.1 E</p> <p>1650' B.H. 50'</p> <p>Y=461957.3 N X=743396.9 E</p> <p>LTP 100' FNL & 1650' FWL Y=461847.9 N X=742405.6 E LAT.=32.268019° N LONG.=103.682808° W</p> <p>NAD 83 NME <u>PROPOSED BOTTOM HOLE LOCATION</u> Y=461897.9 N X=742405.4 E LAT.=32.268157° N LONG.=103.682808° W</p> <p>GRID AZ. = 359°44'59" HORZ. DIST. = 10396.5'</p> <p>SECTION 33 SECTION 4</p> <p>LEASE X-ING LAT.=32.253795° N LONG.=103.682836° W</p> <p>LOT 4 LOT 3 LOT 2 LOT 1</p> <p>39.67 Ac 39.55 Ac 39.62 Ac 39.82 Ac</p> <p>FTP 100' FSL & 1650' FWL Y=451501.5 N X=742450.8 E LAT.=32.239579° N LONG.=103.682865° W GRID AZ. TO FTP 114°16'57"</p> <p>Y=451388.6 N X=740801.1 E</p> <p>1280' S.L. 270'</p> <p>Y=451409.3 N X=743455.5 E</p> <p>NAD 83 NME <u>SURFACE LOCATION</u> Y=451668.6 N X=742080.4 E LAT.=32.240045° N LONG.=103.684059° W</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p>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>OCTOBER 8, 2019</p> <p>Date of Survey _____</p> <p>Signature & Seal of Professional Surveyor</p> <p></p> <p>Chad Hargcrow 10/14/19 Certificate No. CHAD HARGCROW 17777 W.O. # 19-1786 DRAWN BY: AH</p>
---	--

DISTRICT I
1825 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 RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
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District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code	Pool Name
Property Code	Property Name MASTIFF FEDERAL COM		Well Number 707H
OGRID No.	Operator Name COG OPERATING, LLC		Elevation 3638.2'

Surface Location


UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	4	24-S	32-E		270	SOUTH	1190	WEST	LEA

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
D	33	23-S	32-E		50	NORTH	990	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>Y=461932.2 N X=740755.1 E</p> <p>990' B.H.</p> <p>Y=461957.3 N X=743396.9 E</p> <p>LTP 100' FNL & 990' FWL Y=461841.6 N X=741745.6 E LAT.=32.268013° N LONG.=103.684943° W</p> <p>GRID AZ. - 359°44'59" HORZ. DIST. - 10395.4'</p> <p>LEASE X-ING LAT.=32.253802° N LONG.=103.684971° W</p> <p>100' FSL & 990' FWL Y=451496.3 N X=741790.8 E LAT.=32.239576° N LONG.=103.684999° W GRID AZ. TO FTP 229°18'39"</p> <p>Y=451388.6 N X=740801.1 E</p> <p>1190' S.L.</p> <p>270'</p>	<p>NAD 83 NME <u>PROPOSED BOTTOM HOLE LOCATION</u> Y=461891.6 N X=741745.4 E LAT.=32.268151° N LONG.=103.684943° W</p> <p>SECTION 33 SECTION 4</p> <p>LOT 4 39.67 Ac LOT 3 39.55 Ac LOT 2 39.62 Ac LOT 1 39.82 Ac</p> <p>NAD 83 NME <u>SURFACE LOCATION</u> Y=451667.9 N X=741990.4 E LAT.=32.240044° N LONG.=103.684351° W</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p>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>OCTOBER 8, 2019</p> <p>Date of Survey _____</p> <p>Signature & Seal of Professional Surveyor</p> <p> Chad L. Harcrow 10/14/19 Certificate No. CHAD HARCROW 17777 W.O. # 19-1783 DRAWN BY: AH</p>
---	---	--

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
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DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 478-3480 Fax: (505) 478-3482

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Santa Fe, New Mexico 87505

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name MASTIFF FEDERAL COM	Well Number 708H
OGRID No.	Operator Name COG OPERATING, LLC	Elevation 3640.2'


Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	4	24-S	32-E		270	SOUTH	300	WEST	LEA

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
D	33	23-S	32-E		50	NORTH	330	WEST	LEA
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
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<p>Y=461932.2 N X=740755.1 E 330'</p> <p>LIP 100' FNL & 330' FWL Y=461835.3 N X=741085.7 E LAT.=32.268007° N LONG.=103.687079° W</p> <p>LEASE X-ING LAT.=32.253810° N LONG.=103.687106° W</p> <p>GRID AZ. - 359°44'59" HORIZ. DIST. - 10394.3'</p> <p>100' FSL & 330' FWL Y=451491.2 N X=741130.8 E LAT.=32.239573° N LONG.=103.687134° W GRID AZ. TO FTP 169°50'30"</p> <p>Y=451388.6 N X=740801.1 E 300'</p> <p>S.L. 270'</p>	<p>50' B.H.</p> <p>Y=461957.3 N X=743396.9 E</p> <p>NAD 83 NME <u>PROPOSED BOTTOM HOLE LOCATION</u> Y=461885.3 N X=741085.4 E LAT.=32.268144° N LONG.=103.687078° W</p> <p>SECTION 33</p> <table><tr><td>LOT 4</td><td>LOT 3</td><td>LOT 2</td><td>LOT 1</td></tr><tr><td>39.67 Ac</td><td>39.55 Ac</td><td>39.62 Ac</td><td>39.82 Ac</td></tr></table> <p>SECTION 4</p> <p>NAD 83 NME <u>SURFACE LOCATION</u> Y=451661.0 N X=741100.4 E LAT.=32.240040° N LONG.=103.687229° W</p>	LOT 4	LOT 3	LOT 2	LOT 1	39.67 Ac	39.55 Ac	39.62 Ac	39.82 Ac	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p>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>OCTOBER 7, 2019</p> <p>Date of Survey _____</p> <p>Signature & Seal of Professional Surveyor</p> <p></p> <p>Chad Harcrow 10/15/19</p> <p>Certificate No. CHAD HARCROW 17777</p> <p>W.O. # 19-1787 DRAWN BY: DS</p>
LOT 4	LOT 3	LOT 2	LOT 1							
39.67 Ac	39.55 Ac	39.62 Ac	39.82 Ac							

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Santa Fe, New Mexico 87505

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name MASTIFF	Well Number 710H
OGRID No.	Operator Name COG OPERATING, LLC	Elevation

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	4	24-S	32-E		50	SOUTH	330	WEST	LEA

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
D	33	23-S	32-E		50	NORTH	330	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION <i>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> Signature _____ Date _____ Printed Name _____ E-mail Address _____
	SURVEYOR CERTIFICATION <i>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.</i> Date of Survey _____ Signature & Seal of Professional Surveyor _____
	Certificate No. CHAD HARCROW 17777 W.O. #20-??? DRAWN BY: WN

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Phone: (575) 393-6161 Fax: (575) 393-0720

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Santa Fe, New Mexico 87505

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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name MASTIFF	Well Number 709H
OGRID No.	Operator Name COG OPERATING, LLC	Elevation

Surface Location

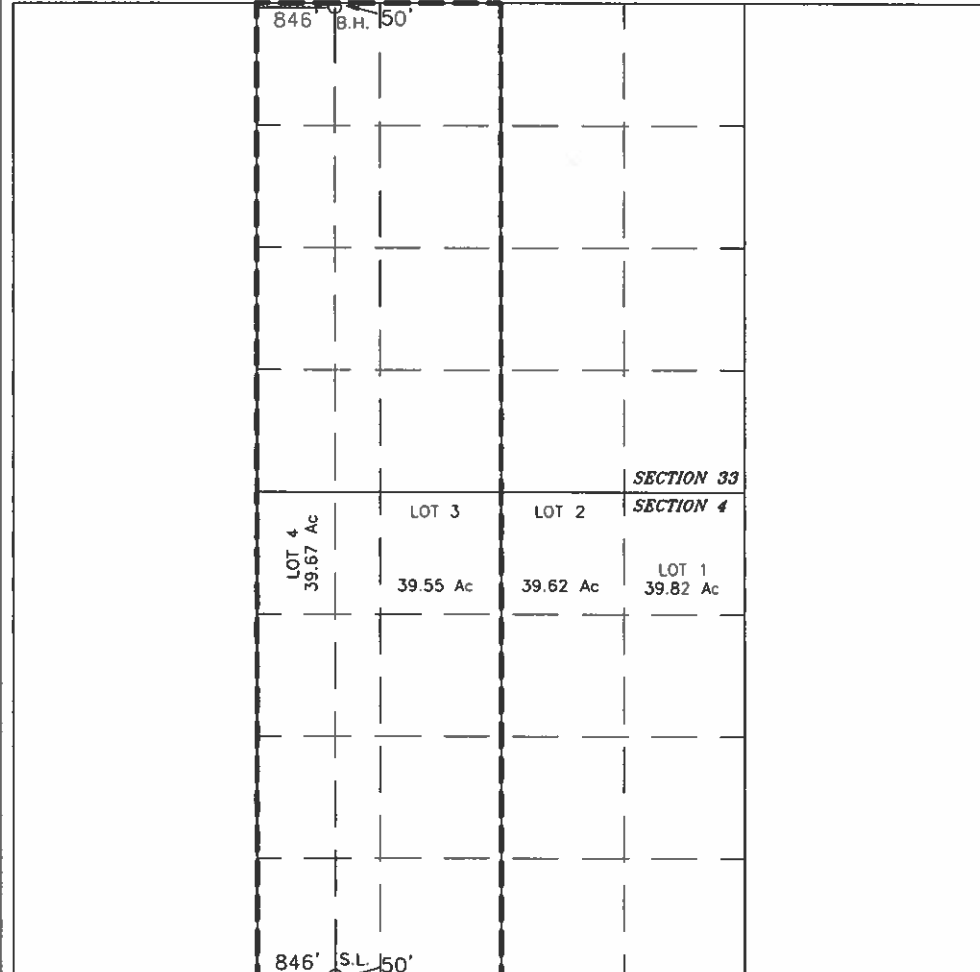
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	4	24-S	32-E		50	SOUTH	846	WEST	LEA

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
D	33	23-S	32-E		50	NORTH	846	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
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OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION <i>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i>
	Signature _____ Date _____
	Printed Name _____
	E-mail Address _____
	SURVEYOR CERTIFICATION <i>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.</i>
	Date of Survey _____
	Signature & Seal of Professional Surveyor _____
	Certificate No. CHAD HARCROW 17777 W.O. #20-??? DRAWN BY: WN

COG Operating, LLC—Mastiff Federal Com Wells

Township 23 South- Range 32 East, N.M.P.M.

Section 33: W/2

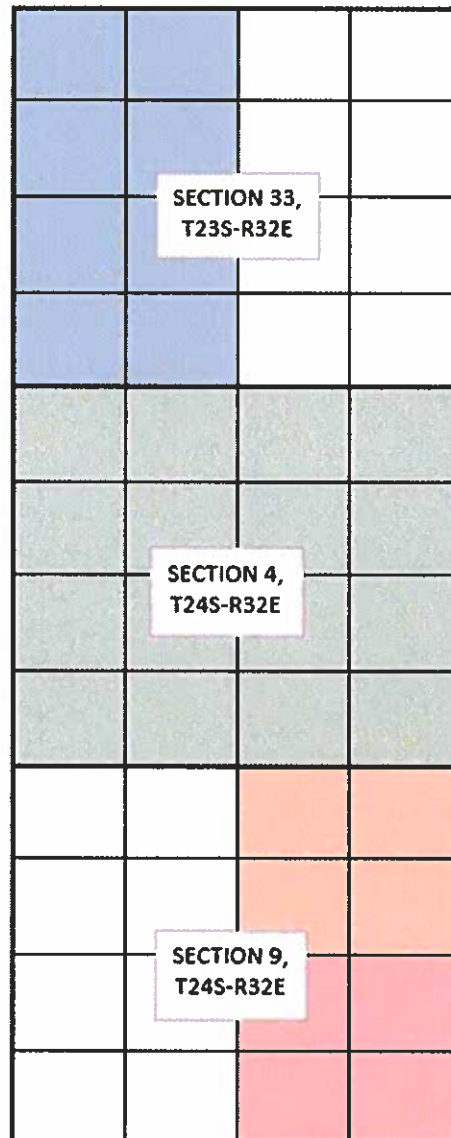
Township 24 South- Range 32 East, N.M.P.M.

Section 4: ALL

Section 9: E/2

Lea County, New Mexico

Limited in Depth to the Bone Spring Pool



TRACT 1	
TRACT 2	
TRACT 3	
TRACT 4	

Mastiff Federal Com Wells – Bone Spring Pool

**BEFORE THE OIL CONSERVATION
COMMISSION**

Santa Fe, New Mexico

Case No. 21321 Exhibit No. 2

Submitted by:

COG OPERATING LLC

Hearing Date: November 4, 2020

Tract 1 (Lease #1) : Section 33: W/2 (320.00 Acres more or less), T23S-R32E

(WI) EOG Resources Inc.	70.000000%
(WI) Oxy Y-1 Company	30.000000%

Total:	100.000000%
---------------	--------------------

Participating Parties

Parties We Seek to Pool

Tract 2 (Lease #2): Section 4: ALL (640.00 Acres more or less), T24S-R32E

(WI) COG Operating LLC	100.000000%
-------------------------------	--------------------

Total	100.000000%
--------------	--------------------

Participating Parties

Tract 3 (Lease #3): Section 9: NE/4 (160.00 Acres more or less), T24S-R32E

(WI) COG Operating LLC	100.000000%
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Total	100.000000%
--------------	--------------------

Participating Parties

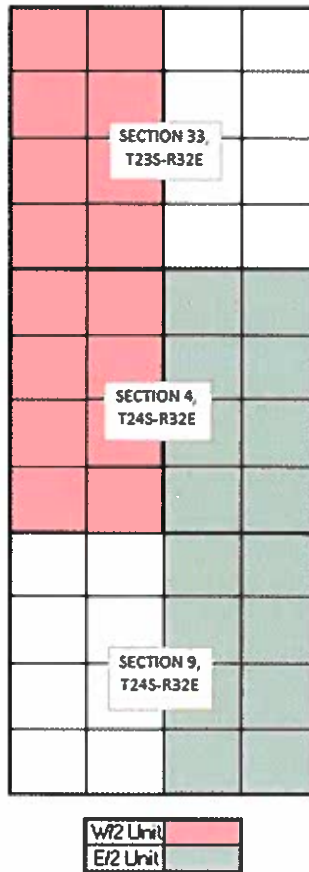
Tract 4 (Lease #4) : Section 9: SE/4 (160.00 Acres more or less), T24S-R32E

(WI) EOG Resources Inc.	75.000000%
(WI) First Roswell LTD.	20.833333%
(WI) Thomas E. Jennings	4.166667%

Total:	100.000000%
---------------	--------------------

Participating Parties

Parties We Seek to Pool



W/2 Spacing Unit Summary (640.00 Acres more or less), Section 33, T23S-R32E and Section 4, T24S-R32E

(WI) COG Operating LLC	50.000000%
(WI) EOG Resources Inc.	35.000000%
(WI) Oxy Y-1 Company	15.000000%
Total:	100.000000%

Participating Parties

Parties We Seek to Pool

E/2 Spacing Unit Summary (640.00 Acres more or less), Sections 4 and 9, T24S-R32E

(WI) COG Operating LLC	75.000000%
(WI) EOG Resources Inc.	18.750000%
(WI) First Roswell Ltd.	5.2083333%
(WI) Thomas E. Jennings	1.0416667%
Total:	100.000000%

Participating Parties

Parties We Seek to Pool

COG Operating, LLC—Mastiff Federal Com Wells

Township 23 South- Range 32 East, N.M.P.M.

Section 33: W/2

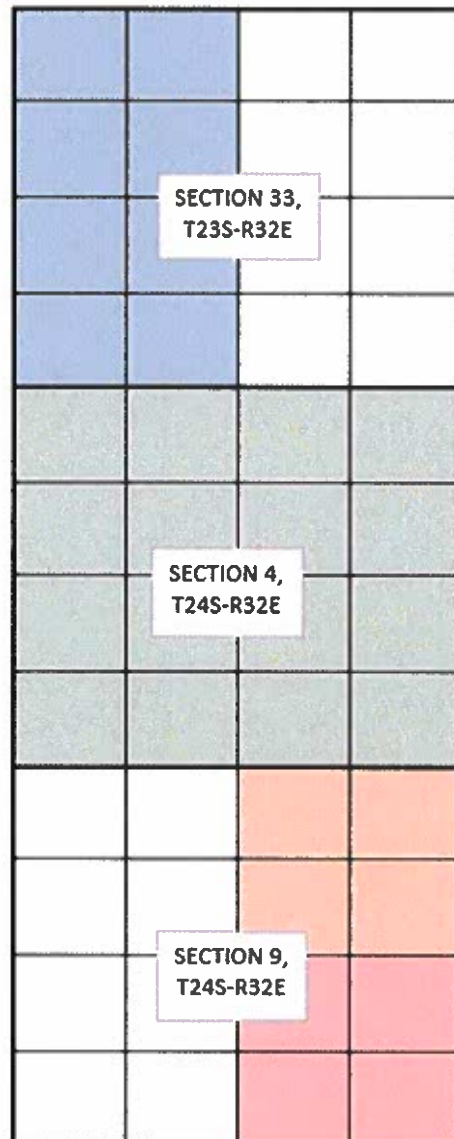
Township 24 South- Range 32 East, N.M.P.M.

Section 4: ALL

Section 9: E/2

Lea County, New Mexico

Limited in Depth to the Wolfcamp Pool



TRACT 1	
TRACT 2	
TRACT 3	
TRACT 4	

Mastiff Federal Com Wells – Wolfcamp Pool

Tract 1 (Lease #1) : Section 33: W/2 (320.00 Acres more or less), T23S-R32E

(WI) EOG Resources Inc.	70.000000%
(WI) Oxy Y-1 Company	30.000000%

Total:	100.000000%
---------------	--------------------

Participating Parties

Parties We Seek to Pool

Tract 2 (Lease #2): Section 4: ALL (640.00 Acres more or less), T24S-R32E

(WI) COG Operating LLC	100.000000%
-------------------------------	--------------------

Total	100.000000%
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Participating Parties

Tract 3 (Lease #3): Section 9: NE/4 (160.00 Acres more or less), T24S-R32E

(WI) COG Operating LLC	100.000000%
-------------------------------	--------------------

Total	100.000000%
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Participating Parties

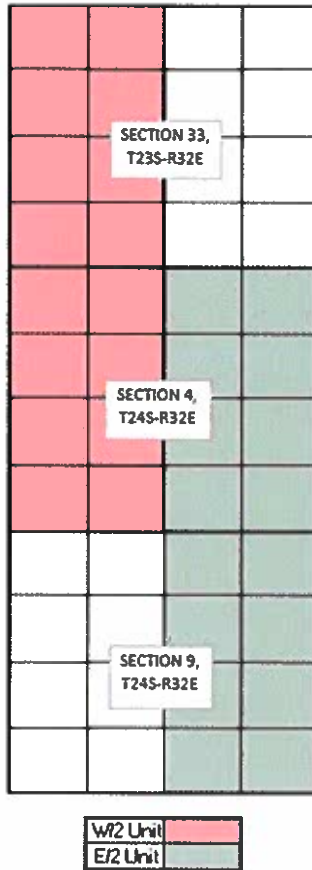
Tract 4 (Lease #4) : Section 9: SE/4 (160.00 Acres more or less), T24S-R32E

(WI) EOG Resources Inc.	75.000000%
(WI) First Roswell LTD.	20.833333%
(WI) Thomas E. Jennings	4.166667%

Total:	100.000000%
---------------	--------------------

Participating Parties

Parties We Seek to Pool



W/2 Spacing Unit Summary (640.00 Acres more or less), Section 33, T23S-R32E and Section 4, T24S-R32E

(WI) COG Operating LLC	50.000000%
(WI) EOG Resources Inc.	35.000000%
(WI) Oxy Y-1 Company	15.000000%
Total:	100.000000%

Participating Parties

Parties We Seek to Pool

E/2 Spacing Unit Summary (640.00 Acres more or less), Sections 4 and 9, T24S-R32E

(WI) COG Operating LLC	75.000000%
(WI) EOG Resources Inc.	18.750000%
(WI) First Roswell Ltd.	5.208333%
(WI) Thomas E. Jennings	1.041667%
Total:	100.000000%

Participating Parties

Parties We Seek to Pool



October 18, 2018

EOG Resources Inc.
5509 Champions Drive
Midland, TX 79706
Attention: Land Department

U.S. CERTIFIED MAIL – 91 7199 9991 7038 7703 4825

Re: Well Proposal – Mastiff Federal Com #701H
Sec 4: Lot 1, SE/4NE/4, and E/2 SE/4 - T24S-R32E
Sec 9: E/2 E/2 - T24S-R32E
Approximate First Take Point: 100' FNL / 330' FEL, Sec.4-T24S-R32E
Approximate Last Take Point: 100' FSL / 330' FEL, Sec.9-T24S-R32E
Lea County, New Mexico

Dear Sir/Madam:

COG Operating LLC (COG), as Operator, hereby proposes the drilling and completion of the Mastiff Federal Com #701H well as a horizontal well at the above-captioned location, or at a legal location as approved by the governing regulatory agency, to a TVD of approximately 12,300' and a MD of approximately 22,860' to test the Wolfcamp Formation ("Operation"). Surface Hole Location and Bottom Hole Location to be determined in accordance with COG's operating plans and surface restrictions on the property. The total cost of the Operation is estimated to be \$13,904,855.00, and a detailed description of the cost is set out in the enclosed Authority for Expenditure ("AFE").

COG is proposing to drill this well under the terms of the modified 1989 AAPL form of Operating Agreement which is enclosed for your review and approval. The Operating Agreement's contract lands will cover the Lots 1, 2, S2NE and SE/4 of Sec. 4-T24S-R32E and the E/2 of Sec. 9-T24S-R32E. It has the following general provisions:

- 100/300 Non-Consenting Penalty
- \$7,000/\$700 Drilling and Producing Rate
- COG Operating LLC named as Operator

Please indicate your participation election in the space provided below, sign and return this letter, along with a signed copy of the enclosed AFE and a copy of your geologic well requirements. A self-addressed, postage paid envelope is enclosed for your convenience. If you do not wish to participate, COG would like to term assign your leasehold under the following general terms:

- Reservation unto Assignor of the positive difference, if any, between existing burdens and 20%
- 3 Year Primary Term
- \$3,000/ Net Acre Bonus Consideration

The term assignment offer is subject to the approval of COG's management and verification of title.

If an agreement cannot be reached within 30 days of the date of this letter, COG will apply to the New Mexico Oil Conservation Division for compulsory pooling of your interest into a spacing unit for the proposed well if uncommitted at such time.

BEFORE THE OIL CONSERVATION
COMMISSION

Santa Fe, New Mexico

Case No. 21321 Exhibit No. 3

Submitted by:

COG OPERATING LLC

Hearing Date: November 4, 2020



If you have any questions, please do not hesitate to contact the undersigned at (432) 685-2515.

Respectfully,

A handwritten signature in blue ink, appearing to read "Adam C. Reker".

Adam C. Reker
Landman

_____ I/We hereby elect to participate in the Mastiff Federal Com #701H.

_____ I/We hereby elect not to participate in the Mastiff Federal Com #701H.

Company: EOG Resources Inc.

By: _____

Name: _____

Title: _____

Date: _____



**COG OPERATING LLC
AUTHORITY FOR EXPENDITURE
DRILLING**

WELL NAME: **MASTIFF FED COM #701H**
FTP: **Sec 4: 100 FNL & 330 FEL**
LTP: **Sec 9: 100 FSL & 330 FEL**
FORMATION: **Wolfcamp**
LEGAL: **Sec 4-24S-32E**

PROSPECT NAME: **Buildog 2432 (717113)**
STATE & COUNTY: **New Mexico, Lea**
OBJECTIVE: **Drill and Complete**
DEPTH: **22,860**
TVD: **12,300**

INTANGIBLE COSTS		Drill - Rtg Release(0)	Completion(C)	Tank Bttv Constrcn(TB)	Prma Equipment(PEQ)	TOTAL
Time/Curative/Perme	201	20,000				20,000
Insurance	202	2,500	302			2,500
Damages/Right of Way	203	20,000	303			20,000
Survey/State Location	204	7,000		351		7,000
Location/Plat/Road Expense	205	135,000	305	10,000	45,000	190,000
Drilling / Completion Overhead	206	11,100	306	15,000		26,100
Turnkey Contract	207	0				0
Footage Contract	208	0				0
Daywork Contract	209	923,000				923,000
Directional Drilling Services	210	442,000				442,000
Frac Equipment			307	1,418,000		1,418,000
Frac Chemicals			308	473,000		473,000
Frac Proppant			309	814,000		814,000
Frac Proppant Transportation			310	399,000		399,000
Fuel & Power	211	211,000	311	68,000	354	279,000
Water	212	80,000	312	968,000	368	1,028,000
Bits	213	111,000	313	4,500	369	115,500
Mud & Chemicals	214	275,000	314	25,000	370	300,000
Drill Stem Test	215	0	315			0
Coring & Analysis	216	0				0
Cement Surface	217	28,000				28,000
Cement Intermediate	218	75,000				75,000
Cement 2nd Intermediate/Production	219	115,000				115,000
Cement Squeeze & Other (Pickoff Plug)	220	0			371	0
Float Equipment & Controllers	221	65,000				65,000
Casing Crews & Equipment	222	70,000				70,000
Fishing Tools & Service	223	0	323		372	0
Geologic/Engineering	224	11,400	324	355	373	11,400
Contract Labor	225	6,500	325	20,000	356	135,935
Company Supervision	226	86,600	326	15,000	357	81,800
Contract Supervision	227	157,000	327	265,000	358	417,000
Teasing Casing/Tubing	228	30,000	328	5,000	377	35,000
Mud Logging Unit	229	52,000	329			52,000
Logging	230	0			378	0
Perforating/Wireline Services	231	4,000	331	538,000	379	542,000
Stimulation/Treating			332	397,000	380	397,000
Completion Unit			333	134,000	381	146,800
Swabbing Unit			334		382	0
Rentals-Surface	235	180,000	335	403,000	359	600,000
Rentals-Subsurface	236	150,000	336	30,000	384	180,000
Trucking/Foray/Rig Mobilization	237	200,000	337	20,000	360	220,000
Welding Services	238	3,000	338	5,000	361	8,000
Water Disposal	239	0	339	80,000	362	165,000
Plug to Abandon	240	0	340		387	0
Seismic Analysis	241	0	341			0
Miscellaneous	242	0	342			0
Contingency	243	89,000	343	250,000	363	319,000
Closed Loop & Environmental	244	330,000	344	5,000	364	335,000
Dyed Diesel	245		345	484,000		484,000
Coil Tubing			346	750,000		750,000
Flowback Crews & Equip			347	48,000		48,000
Offset Directional/Frac	248		348		391	0
TOTAL INTANGIBLES		3,640,100	7,615,500	302,835	30,300	11,788,835
TANGIBLE COSTS						
Surface Casing	401	52,000				52,000
Intermediate Casing	402	555,000				555,000
Production Casing/Liner	403	516,000				516,000
Tubing			504	52,000	630	57,000
Wellhead Equipment	405	75,000	505	22,000	631	100,000
Pumping Unit				0	606	96,000
Prime Mover				0	607	0
Rods				0	608	35,000
Pumps-Sub Surface (B-H)			509		532	5,000
Tanks				62,645.00	510	62,645
Flowlines				26,593.00	511	26,593
Heater Treater/Separator				140,007.00	512	140,007
Electrical System				190,000.00	513	190,000
Packets/Anchors/Hangers	414		514	66,000	534	66,000
Couplings/Fittings/Valves	415			102,282	515	102,282
Dehydration					517	0
Injection Plant/CO2 Equipment					518	0
Purifier-Surface				5,000	521	5,000
Instrumentation/SCADA/POC				10,482	522	17,482
Miscellaneous	419		519	5,241	535	8,241
Contingency	420		520		536	0
Meters/LACT				25,156	525	25,156
Flares/Combustors/Emission				23,584	528	23,584
Gas Lift/Compression			527	15,000	516	15,000
TOTAL TANGIBLES		1,198,000	155,000	591,990	171,000	2,116,020
TOTAL WELL COSTS		5,038,100	7,771,000	894,825	201,300	13,904,855

COG Operating LLC

% of Total Well Cost

36%

56%

6%

1%

Date Prepared: 10/18/18

COG Operating LLC *ACR*

By: MB

We approve:
% Working Interest

Company:
By:

Printed Name:
Title:
Date:

This AFE is only an estimate. By signing you agree to pay your share of the actual costs incurred

CONCHO RESOURCES
Melissa Dimit
600 W Illinois Ave
Midland, TX 79701

USPS CERTIFIED MAIL



9414 8149 0246 9822 0058 31

OXY Y-1 COMPANY
NON-OP LAND
PO BOX 27570
HOUSTON, TX 77227

Shipper Ref: DIMIT - W2 BONE SPRING MASTIFF FED COM WELLS
Reference 1: 204H-205H, 306H-310H, 505H-507H
Reference 2: ENCLOSURES - PROPOSALS, AFES, OA



OXY Y-1 Company
PO Box 27570
Houston, TX 77227
Attention: Land Department

May 6, 2019

Re: Well Proposal – Mastiff Federal Com #204H
Sec 4: E/2 W/2 - T24S-R32E
Sec 33: E/2 W/2 - T23S-R32E
Approximate First Take Point: 100' FSL / 1720' FWL, Sec.4-T24S-R32E
Approximate Last Take Point: 100' FSL / 1720' FWL, Sec.33-T23S-R32E
Lea County, New Mexico

Dear Sir/Madam:

COG Operating LLC (COG), as Operator, hereby proposes the drilling and completion of the Mastiff Federal Com #204H well as a horizontal well at the above-captioned location, or at a legal location as approved by the governing regulatory agency, to a TVD of approximately 9,450' and a MD of approximately 20,010' to test the Bone Spring Formation ("Operation"). Surface Hole Location and Bottom Hole Location to be determined in accordance with COG's operating plans and surface restrictions on the property. The total cost of the Operation is estimated to be \$10,396,855.00, and a detailed description of the cost is set out in the enclosed Authority for Expenditure ("AFE").

COG is proposing to drill this well under the terms of the modified 1989 AAPL form of Operating Agreement which is enclosed for your review and approval. The Operating Agreement's contract lands will cover the W/2 of Sec. 4-T24S-R32E and the W/2 of Sec. 33-T23S-R32E. It has the following general provisions:

- 100/300 Non-Consenting Penalty
- \$7,500/\$750 Drilling and Producing Rate
- COG Operating LLC named as Operator

Please indicate your participation election in the space provided below, sign and return this letter, along with a signed copy of the enclosed AFE and a copy of your geologic well requirements. A self-addressed, postage paid envelope is enclosed for your convenience. If you do not wish to participate, COG would like to term assign your leasehold under the following general terms:

- Reservation unto Assignor of the positive difference, if any, between existing burdens and 20%
- 3 Year Primary Term
- \$3,000/ Net Acre Bonus Consideration

The term assignment offer is subject to the approval of COG's management and verification of title.

If an agreement cannot be reached within 30 days of the date of this letter, COG will apply to the New Mexico Oil Conservation Division for compulsory pooling of your interest into a spacing unit for the proposed well if uncommitted at such time.



If you have any questions, please do not hesitate to contact the undersigned at (432) 685-2515.

Respectfully,

A handwritten signature in black ink, appearing to read "Adam C. Reker".

Adam C. Reker
Landman

I/We hereby elect to participate in the Mastiff Federal Com #204H.

I/We hereby elect not to participate in the Mastiff Federal Com #204H.

Company: OXY Y-1 Company

By: _____

Name: _____

Title: _____

Date: _____

**COG OPERATING LLC
AUTHORITY FOR EXPENDITURE
DRILLING**

WELL NAME: MASTIFF FED COM #204H	PROSPECT NAME: Bulldog 2432 (717113)
FTP: Sec 4: 100 FSL & 1720 FWL	STATE & COUNTY: New Mexico, Lea
LTP: Sec 33: 100 FNL & 1720 FWL	OBJECTIVE: Drill and Complete
FORMATION: Avalon Shale	DEPTH: 20,010
LEGAL: Sec 4-24S-32E	TVD: 9,450

		Drig - Rig Release(D)	Completion(C)	Tank Btty Constrctn(TB)	Pmpq Equipment(PEQ)	TOTAL
INTANGIBLE COSTS						
Title/Curtain/Permit	201	20,000				20,000
Insurance	202	2,500	302			2,500
Damages/Right of Way	203	20,000	303			20,000
Survey/State Location	204	7,000		351		7,000
Location/Plat/Road Expense	205	135,000	305	10,000	353	180,000
Drilling / Completion Overhead	206	7,500	306	15,000		22,500
Turnkey Contract	207	0				0
Footage Contract	208	0				0
Daywork Contract	209	495,000				495,000
Directional Drilling Services	210	185,000				185,000
Frac Equipment			307	1,418,000		1,418,000
Frac Chemicals			308	513,000		513,000
Frac Proppant			309	404,000		404,000
Frac Proppant Transportation			310	399,000		399,000
Fuel & Power	211	88,000	311	68,000	354	166,000
Water	212	60,000	312	1,019,000	368	1,079,000
Bits	213	92,000	313	12,000	369	104,000
Mud & Chemicals	214	70,000	314	20,000	370	90,000
Drill Stem Test	215	0	315			0
Coring & Analysis	216	0				0
Cement Surface	217	25,500				25,500
Cement Intermediate	218	35,000				35,000
Cement 2nd Intermediate/Production	219	130,000				130,000
Cement Squeeze & Other Kickoff Plug	220	0			371	0
Float Equipment & Centralizers	221	32,500				32,500
Casing Crews & Equipment	222	39,000				39,000
Fishing Tools & Service	223	0	323		372	0
Geologic/Engineering	224	6,000	324	355	373	6,000
Contract Labor	225	5,500	325	40,000	356	175,935
Company Supervision	226	32,400	326	15,000	357	47,400
Contract Supervision	227	85,000	327	182,000	358	272,000
Testing Casing/Tubing	228	30,000	328	5,000	376	35,000
Mud Logging Unit	229	28,000	329		377	28,000
Logging	230	0			378	0
Perforating/Wireline Services	231	4,000	331	538,000	379	542,000
Simulation/Treating			332	12,000	380	12,000
Completion Unit			333	90,000	381	98,800
Swabbing Unit			334		382	0
Rentals-Surface	235	125,000	335	486,000	359	598,000
Rentals-Subsurface	236	110,000	336	80,000	384	190,000
Trucking/Port/Air/Rig Mobilization	237	200,000	337	41,000	350	243,000
Wellhead Services	238	3,000	338	5,000	361	8,000
Water Disposal	239	0	339	62,000	362	195,000
Plug to Abandon	240	0	340		387	0
Seismic Analysis	241	0	341			0
Miscellaneous	242	0	342		389	0
Contingency	243	42,000	343	250,000	363	292,000
Closed Loop & Environmental	244	220,000	344	5,000	384	225,000
Dyed Diesel	245		345	484,000		
Coil Tubing			346			0
Flowback Crews & Equip			347	48,000		48,000
Offset Directional/Frac	248		348		391	0
TOTAL INTANGIBLES		2,346,500	6,199,000	302,935	30,300	8,878,135
TANGIBLE COSTS						
Surface Casing	401	43,000				48,000
Intermediate Casing	402	174,000				174,000
Production Casing/Liner	403	327,000				327,000
Tubing			504	52,030	530	57,030
Wellhead Equipment	425	67,000	505	18,700	531	81,700
Pumping Unit					506	96,000
Prime Mover					507	0
Rods					508	35,000
Pumps-Sub Surface (B-H)			509		532	5,000
Tanks				510	63,845.00	63,845
Flowlines				511	28,593.00	28,593
Heater Treater/Separator				512	140,007.00	140,007
Electrical System				513	130,000.00	145,000
Packers/Anchors/Hangers	414		514	65,000	534	67,000
Couplings/Fittings/Valves	415			515	102,282	102,282
Dehydration				517		0
Injection Plant/CO2 Equipment				518		0
Pumps-Surface				521	5,000	5,000
Instrumentation/SCADA/POC				522	10,482	7,000
Miscellaneous	419		519	5,241	535	8,241
Contingency	420		520		536	0
Meters/LACT				525	25,156	25,156
Flares/Combustors/Emission				526	23,584	23,584
Gas Lift/Compression			527	11,000	516	60,000
TOTAL TANGIBLES		609,000	148,730	591,990	171,000	1,518,720
TOTAL WELL COSTS		2,955,500	6,345,000	894,925	201,300	10,396,855

COG Operating LLC % of Total Well Cost

Date Prepared: 10/18/18

COG Operating LLC

We approve:

% Working Interest

By:

MB

Company: OXY Y-1 COMPANY

By:

Printed Name:

Title:

Date:

This AFE is only an estimate. By signing you agree to pay your share of the actual costs incurred

10/29/2019

<https://concho.sendproenterprise.com/Composer/XmlRequest/GetShipLabel?guid=8e9e6b30-3c21-47dc-96c4-593fb6e2496e&pagenu...>

USPS CERTIFIED MAIL

CONCHO RESOURCES
Melissa Dimit
600 W Illinois Ave
Midland, TX 79701



9414 8149 0246 9822 0417 85

THOMAS E JENNINGS
THOMAS E JENNINGS
111 S KENTUCKY AVE
ROSWELL, NM 88203-4518

Shipper Ref:
Reference 1

DIMIT-MASTIFF FED COM E2 WFMP & BS
ENCL- PROPOSALS, AFes, OAs; WFMP & BS



Mr. Jennings,

COG Operating proposed its Mastiff Wells in the E/2 of Sections 4 and 9, T24S-R32E on September 19, 2019 to both First Roswell and you individually. Due to a mistake by our mail group, we cannot prove this fact via our FedEx receipts. Please find the attached proposals which are the exact same as our former proposals other than they are dated today. As an FYI, if a trade agreement has not been reached between EOG Resources Inc. and Concho prior to 1/23/2019... We are going to a contested hearing in Santa Fe over these cases. If your interest remains uncommitted to a JOA, we will name your interest(s) in our Compulsory Pooling Proceedings.

Thanks for your attention on this matter,

Adam Reker, MBA, RPL
Landman - COG Operating LLC
areker@concho.com



October 28, 2019

Thomas E. Jennings
111 South Kentucky Avenue
Roswell, NM 88203

Re: Well Proposal – Mastiff Federal Com #201H
Sec 4: E/2 E/2 - T24S-R32E
Sec 9: E/2 E/2 - T24S-R32E
Approximate First Take Point: 100' FNL / 330' FEL, Sec.4-T24S-R32E
Approximate Last Take Point: 100' FSL / 330' FEL, Sec.9-T24S-R32E
Lea County, New Mexico

Dear Sir/Madam:

COG Operating LLC (COG), as Operator, hereby proposes the drilling and completion of the Mastiff Federal Com #201H well as a horizontal well at the above-captioned location, or at a legal location as approved by the governing regulatory agency, to a TVD of approximately 9,450' and a MD of approximately 20,010' to test the Bone Spring Formation ("Operation"). Surface Hole Location and Bottom Hole Location to be determined in accordance with COG's operating plans and surface restrictions on the property. The total cost of the Operation is estimated to be \$10,396,855.00, and a detailed description of the cost is set out in the enclosed Authority for Expenditure ("AFE").

COG is proposing to drill this well under the terms of the modified 1989 AAPL form of Operating Agreement which is enclosed for your review and approval. The Operating Agreement's contract lands will cover the E/2 of Sec. 4-T24S-R32E and the E/2 of Sec. 9-T24S-R32E. It has the following general provisions:

- 100/300 Non-Consenting Penalty
- \$7,500/\$750 Drilling and Producing Rate
- COG Operating LLC named as Operator

Please indicate your participation election in the space provided below, sign and return this letter, along with a signed copy of the enclosed AFE and a copy of your geologic well requirements. A self-addressed, postage paid envelope is enclosed for your convenience. If you do not wish to participate, COG would like to term assign your leasehold under the following general terms:

- Reservation unto Assignor of the positive difference, if any, between existing burdens and 25%
- 3 Year Primary Term
- \$3,000/ Net Acre Bonus Consideration

The term assignment offer is subject to the approval of COG's management and verification of title.

If an agreement cannot be reached within 30 days of the date of this letter, COG will apply to the New Mexico Oil Conservation Division for compulsory pooling of your interest into a spacing unit for the proposed well if uncommitted at such time.



If you have any questions, please do not hesitate to contact the undersigned at (432) 685-2515.

Respectfully,

A handwritten signature in black ink, appearing to read "Adam C. Reker".

Adam C. Reker
Landman

I/We hereby elect to participate in the Mastiff Federal Com #201H.

I/We hereby elect not to participate in the Mastiff Federal Com #201H.

Thomas E. Jennings
Company: _____

By: _____

Name: _____

Title: _____

Date: _____

10/29/2019

<https://concho.sendproenterprise.com/Composer/XmlRequest/GetShipLabel?guid=e1023ee7-b89b-4cbc-bafb-b2018fd06b4&pagenum...>

CONCHO RESOURCES
Melissa Dimit
600 W Illinois Ave
Midland, TX 79701

USPS CERTIFIED MAIL



9414 8149 0246 9822 0417 78

FIRST ROSWELL, LTD
FIRST ROSWELL, LTD
111 S KENTUCKY AVE
ROSWELL, NM 88203-4518

Shipper Ref:
Reference 1:

DIMIT-MASTIFF FED COM E2 WFMP & BS
ENCL- PROPOSALS, AFEs, OAs; WFMP & BS



Mr. Jennings (General Partner of First Roswell LTD),

COG Operating proposed its Mastiff Wells in the E/2 of Sections 4 and 9, T24S-R32E on September 19, 2019 to both First Roswell and you individually. Due to a mistake by our mail group, we cannot prove this fact via our FedEx receipts. Please find the attached proposals which are the exact same as our former proposals other than they are dated today. As an FYI, if a trade agreement has not been reached between EOG Resources Inc. and Concho prior to 1/23/2019... We are going to a contested hearing in Santa Fe over these cases. If your interest remains uncommitted to a JOA, we will name your interest(s) in our Compulsory Pooling Proceedings.

Thanks for your attention on this matter,

A handwritten signature in black ink, appearing to read "AR" followed by a stylized flourish.

Adam Reker, MBA, RPL
Landman - COG Operating LLC
areker@concho.com

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

**APPLICATION OF COG OPERATING LLC FOR
COMPULSORY POOLING,
LEA COUNTY, NEW MEXICO.**

CASE NOS. 20923, 20924, 20925 & 20926

AFFIDAVIT

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

Ocean Munds-Dry, attorney and authorized representative of COG Operating LLC, the Applicant herein, being first duly sworn, upon oath, states that the above-referenced Applications were provided under the notice letters and proof of receipts attached hereto.


Ocean Munds Dry

SUBSCRIBED AND SWORN to before me this 19th day of February 2020 by Ocean Munds Dry.



OFFICIAL SEAL
LISAMARIE ORTIZ
NOTARY PUBLIC-STATE OF NEW MEXICO
My commission expires 01/14/23


Notary Public

**BEFORE THE OIL CONSERVATION
COMMISSION
Santa Fe, New Mexico
Case No. 21321 Exhibit No. 4
Submitted by:
COG OPERATING LLC
Hearing Date: November 4, 2020**



William F. Carr
Senior Counsel

November 22, 2019

VIA CERTIFIED MAIL
CERTIFIED RECEIPT REQUESTED

TO: ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS

**Re: Case No. 20923: Application of COG Operating, LLC for Compulsory Pooling,
Lea County, New Mexico.
Mastiff Fed Com #201H-#203H, #301H-#305H, #501H-#504H Wells**

Ladies & Gentlemen:

This letter is to advise you that COG Operating LLC has filed the enclosed application with the New Mexico Oil Conservation Division. A hearing has been requested before a Division Examiner on December 12, 2019, and the status of the hearing can be monitored through the Division's website at <http://www.emnrd.state.nm.us/ocd/>. Division hearings will commence at 8:15 a.m. in Porter Hall at the Oil Conservation Division's Santa Fe Offices located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging the matter at a later date.

Parties appearing in cases are required by Division Rule 19.15.4.13.B to file a Pre-hearing Statement four business days in advance of a scheduled hearing. This statement must be filed at the Division's Santa Fe office at the above specified address and should include: the names of the parties and their attorneys; a concise statement of the case; the names of all 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 are to be resolved prior to the hearing.

If you have any questions about this matter, please contact Adam Reker at (432) 685-2515 or AReker@concho.com.

Sincerely,

A handwritten signature in black ink, appearing to read "William F. Carr".

William F. Carr
Senior Counsel for COG Operating LLC

0190 2290 0000 3423 0810

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OFFICIAL USE

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

Thomas E. Jennings
 111 South Kentucky Avenue
 Roswell, New Mexico 88203

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

0290 2290 0000 3423 0827

U.S. Postal Service™
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 Domestic Mail Only

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

OFFICIAL USE

Certified Mail Fee \$

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

<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

First Roswell Ltd.
 111 S. Kentucky Avenue
 Roswell, New Mexico 88203-4518

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.

Thomas E. Jennings
 111 South Kentucky Avenue
 Roswell, New Mexico 88203

COMPLETE THIS SECTION ON DELIVERY

A. Signature ☒ Agent ☐ Addressee

B. Received by (Printed Name) THOMAS E. JENNINGS

C. Date of Delivery 25 NOV 2015

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 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"/> Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input type="checkbox"/> Restricted Delivery	

(over \$500)

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

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

First Roswell Ltd.
 111 S. Kentucky Avenue
 Roswell, New Mexico 88203-4518

COMPLETE THIS SECTION ON DELIVERY

A. Signature ☒ Agent ☐ Addressee

B. Received by (Printed Name) THOMAS E. JENNINGS

C. Date of Delivery 25 NOV 2015

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 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"/> Restricted Delivery	

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

7018 2290 0000 3423 0803

U.S. Postal Service™
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 Domestic Mail Only

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

OFFICIAL USE

Certified Mail Fee

\$

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

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

Postmark
Here

Postage

EOG Resources, Inc.
 5509 Champions Drive
 Midland, Texas 79706
 Attn: Land Department

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.

EOG Resources, Inc.
 5509 Champions Drive
 Midland, Texas 79706
 Attn: Land Department



9590 9402 4583 8278 4405 84

7018 2290 0000 3423 0803

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Signature]

☐ Agent
☐ Addressee

B. Received by (Printed Name)

Sim Cornell

C. Date of Delivery

11-27-19

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
☐ Insured Mail Restricted Delivery (over \$500)
- ☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery



William F. Carr
Senior Counsel

November 22, 2019

VIA CERTIFIED MAIL
CERTIFIED RECEIPT REQUESTED

TO: ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS

**Re: Case No. 20924: Application of COG Operating, LLC for Compulsory Pooling,
Lea County, New Mexico.
Mastiff Fed Com #204H-#205H, #306H-#310H, #505H-#507H Wells**

Ladies & Gentlemen:

This letter is to advise you that COG Operating LLC has filed the enclosed application with the New Mexico Oil Conservation Division. A hearing has been requested before a Division Examiner on December 12, 2019, and the status of the hearing can be monitored through the Division's website at <http://www.emnrd.state.nm.us/ocd/>. Division hearings will commence at 8:15 a.m. in Porter Hall at the Oil Conservation Division's Santa Fe Offices located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging the matter at a later date.

Parties appearing in cases are required by Division Rule 19.15.4.13.B to file a Pre-hearing Statement four business days in advance of a scheduled hearing. This statement must be filed at the Division's Santa Fe office at the above specified address and should include: the names of the parties and their attorneys; a concise statement of the case; the names of all 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 are to be resolved prior to the hearing.

If you have any questions about this matter, please contact Adam Reker at (432) 685-2515 or AReker@concho.com.

Sincerely,

A handwritten signature in black ink that reads "William F. Carr".

William F. Carr
Senior Counsel for COG Operating LLC

7018 2290 0000 3423 0841

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Certified Mail Fee

\$

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

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

Postage

Postmark
Here

Thomas E. Jennings
111 South Kentucky Avenue
Roswell, New Mexico 88203

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

See Reverse for Instructions

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

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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 \$

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Postmark
Here

First Roswell Ltd.
111 S. Kentucky Avenue
Roswell, New Mexico 88203-4518

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.

Thomas E. Jennings
111 South Kentucky Avenue
Roswell, New Mexico 88203



9590 9402 4583 8278 4406 07

2. Article Number (Transfer from service label)

7018 2290 0000 3423 0841

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

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

B. Received by (Printed Name)

THOMAS E. JENNINGS

C. Date of Delivery

25 NOV 2019

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
- ☐ Restricted Delivery

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

(over \$500)

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

First Roswell Ltd.
111 S. Kentucky Avenue
Roswell, New Mexico 88203-4518



9590 9402 4583 8278 4405 91

2. (Transfer from service label)

7018 2290 0000 3423 0858

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

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

B. Received by (Printed Name)

THOMAS E. JENNINGS

C. Date of Delivery

25 NOV 2019

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
- ☐ Restricted Delivery

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

7018 2290 0000 3423 0834

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Certified Mail Fee

\$

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

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

Postage

Postmark
 Here

EOG Resources, Inc.
 5509 Champions Drive
 Midland, Texas 79706
 Attn: Land Department

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 Resources, Inc.
 5509 Champions Drive
 Midland, Texas 79706
 Attn: Land Department



9590 9402 4583 8278 4406 14

2. Article Number (Transfer from service label)

7018 2290 0000 3423 0834

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]* ☒ Agent
☐ Addressee

B. Received by (Printed Name)

Jim Connell C. Date of Delivery

11-27-19

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 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 |



William F. Carr
Senior Counsel

November 22, 2019

VIA CERTIFIED MAIL
CERTIFIED RECEIPT REQUESTED

TO: ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS

**Re: Case No. 20926: Application of COG Operating, LLC for Compulsory Pooling,
Lea County, New Mexico.
Mastiff Fed Com #706H, #707H, #708H, #709H, #710H Wells**

Ladies & Gentlemen:

This letter is to advise you that COG Operating LLC has filed the enclosed application with the New Mexico Oil Conservation Division. A hearing has been requested before a Division Examiner on December 12, 2019, and the status of the hearing can be monitored through the Division's website at <http://www.emnrd.state.nm.us/ocd/>. Division hearings will commence at 8:15 a.m. in Porter Hall at the Oil Conservation Division's Santa Fe Offices located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging the matter at a later date.

Parties appearing in cases are required by Division Rule 19.15.4.13.B to file a Pre-hearing Statement four business days in advance of a scheduled hearing. This statement must be filed at the Division's Santa Fe office at the above specified address and should include: the names of the parties and their attorneys; a concise statement of the case; the names of all 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 are to be resolved prior to the hearing.

If you have any questions about this matter, please contact Adam Reker at (432) 685-2515 or AReker@concho.com.

Sincerely,

A handwritten signature in dark ink, appearing to read "William F. Carr".

William F. Carr
Senior Counsel for COG Operating LLC

7018 2290 0000 3423 0780

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OFFICIAL USE

Certified Mail Fee \$

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

☐ Return Receipt (hardcopy) \$

☐ Return Receipt (electronic) \$

☐ Certified Mail Restricted Delivery \$

☐ Adult Signature Required \$

☐ Adult Signature Restricted Delivery \$

Postage \$

Postmark Here

Thomas E. Jennings
 111 South Kentucky Avenue
 Roswell, New Mexico 88203

PS Form 3800, April 2015 PSN 7530-02-000-9053 See Reverse for Instructions

7018 2290 0000 3423 0797

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Certified Mail Fee \$

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

☐ Return Receipt (hardcopy) \$

☐ Return Receipt (electronic) \$

☐ Certified Mail Restricted Delivery \$

☐ Adult Signature Required \$

☐ Adult Signature Restricted Delivery \$

Postage \$

Postmark Here

First Roswell Ltd.
 111 S. Kentucky Avenue
 Roswell, New Mexico 88203-4518

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:

Thomas E. Jennings
 111 South Kentucky Avenue
 Roswell, New Mexico 88203

9590 9402 4583 8278 4400 41

7018 2290 0000 3423 0780

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

ON DELIVERY

A. Signature

B. Received by (Printed Name)
 THOMAS E. JENNINGS

C. Date of Delivery
 25 NOV 2015

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

3. Service Type

☐ Adult Signature ☐ Priority Mail Express®

☐ Adult Signature Restricted Delivery ☐ Registered Mail™

☐ Certified Mail® ☐ Registered Mail Restricted Delivery

☐ Certified Mail Restricted Delivery ☐ Return Receipt for Merchandise

☐ Collect on Delivery ☐ Signature Confirmation™

☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation Restricted Delivery

(over 3000)

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

■ Complete items 1, 2, and 3.

■ Print your name and address on the reverse so that we can return the card to you.

■ Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

First Roswell Ltd.
 111 S. Kentucky Avenue
 Roswell, New Mexico 88203-4518

9590 9402 4368 8190 0159 93

7018 2290 0000 3423 0797

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

B. Received by (Printed Name)
 THOMAS E. JENNINGS

C. Date of Delivery
 25 NOV 2015

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

3. Service Type

☐ Adult Signature ☐ Priority Mail Express®

☐ Adult Signature Restricted Delivery ☐ Registered Mail™

☐ Certified Mail® ☐ Registered Mail Restricted Delivery

☐ Certified Mail Restricted Delivery ☐ Return Receipt for Merchandise

☐ Collect on Delivery ☐ Signature Confirmation™

☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation Restricted Delivery

restricted Delivery

Domestic Return Receipt

U.S. Postal ServiceTM
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OFFICIAL USE

Certified Mail Fee

\$

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

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

Postmark
Here

Postage

EOG Resources, Inc.
 5509 Champions Drive
 Midland, Texas 79706
 Attn: Land Department

PS Form 3800, April 2015 PSN 7530-02-000-0047

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 Resources, Inc.
 5509 Champions Drive
 Midland, Texas 79706
 Attn: Land Department



9590 9402 4583 8278 4400 34

7018 2290 0000 3423 0773

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Signature]

☐ Agent

☐ Addressee

B. Received by (Printed Name)

Jim Connell

C. Date of Delivery

11-27-19

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 MailTM
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature ConfirmationTM
- ☐ Signature Confirmation Restricted Delivery

☐ Restricted Delivery

(over 3500)

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

Domestic Return Receipt



William F. Carr
Senior Counsel

November 22, 2019

VIA CERTIFIED MAIL
CERTIFIED RECEIPT REQUESTED

TO: ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS

**Re: Case No. 20925: Application of COG Operating, LLC for Compulsory Pooling,
Lea County, New Mexico.
Mastiff Fed Com #701H, #702H, #703H, #704H, #705H Wells**

Ladies & Gentlemen:

This letter is to advise you that COG Operating LLC has filed the enclosed application with the New Mexico Oil Conservation Division. A hearing has been requested before a Division Examiner on December 12, 2019, and the status of the hearing can be monitored through the Division's website at <http://www.emnrd.state.nm.us/ocd/>. Division hearings will commence at 8:15 a.m. in Porter Hall at the Oil Conservation Division's Santa Fe Offices located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging the matter at a later date.

Parties appearing in cases are required by Division Rule 19.15.4.13.B to file a Pre-hearing Statement four business days in advance of a scheduled hearing. This statement must be filed at the Division's Santa Fe office at the above specified address and should include: the names of the parties and their attorneys; a concise statement of the case; the names of all 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 are to be resolved prior to the hearing.

If you have any questions about this matter, please contact Adam Reker at (432) 685-2515 or AReker@concho.com.

Sincerely,

William F. Carr
Senior Counsel for COG Operating LLC

7018 2290 0000 3423 0759

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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	\$

Postmark Here

Thomas E. Jennings
111 South Kentucky Avenue
Roswell, New Mexico 88203

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

7018 2290 0000 3423 0766

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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

Postmark Here

First Roswell Ltd.
111 S. Kentucky Avenue
Roswell, New Mexico 88203-4518

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

SENDER: COMP

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

1. Thomas E. Jennings
111 South Kentucky Avenue
Roswell, New Mexico 88203

2. 7018 2290 0000 3423 0759

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 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"/> Restricted Delivery	

A. Signature X [Signature]

B. Received by (Printed Name) THOMAS E. JENNINGS

C. Date of Delivery 25 NOV 2019

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

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

SENDER: COM

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

1. First Roswell Ltd.
111 S. Kentucky Avenue
Roswell, New Mexico 88203-4518

2. Article Number (Transfer from service label)
7018 2290 0000 3423 0766

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 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"/> Restricted Delivery	

A. Signature X [Signature]

B. Received by (Printed Name) THOMAS E. JENNINGS

C. Date of Delivery 25 NOV 2019

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

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

7018 2290 0000 3423 0742

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Certified Mail Fee

\$

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

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

Postmark
Here

EOG Resources, Inc.
 5509 Champions Drive
 Midland, Texas 79706
 Attn: Land Department

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.

EOG Resources, Inc.
 5509 Champions Drive
 Midland, Texas 79706
 Attn: Land Department



9590 9402 4368 8190 0159 86

2 Article Number (Transfer from service label)

7018 2290 0000 3423 0742

CERTIFIED MAIL

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

LIVERY

A. Signature

X

☐ Agent

☐ Addressee

B. Received by (Printed Name)

Sam Cornell

C. Date of Delivery

11-27-19

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

☐ Restricted Delivery

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

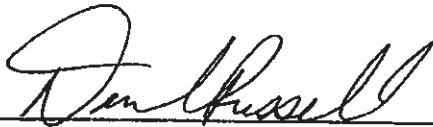
Domestic Return Receipt

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
December 04, 2019
and ending with the issue dated
December 04, 2019.

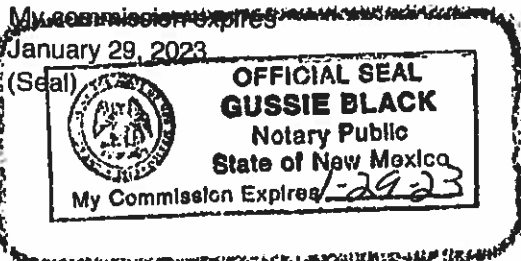


Publisher

Sworn and subscribed to before me this
4th day of December 2019.



Business Manager



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL

LEGAL

LEGAL

LEGAL NOTICE DECEMBER 4, 2019

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

The State of New Mexico through its Oil Conservation Division hereby gives notice pursuant to law and the Rules and Regulations of the Division of the following public hearing to be held at 8:15 A.M. on December 12, 2019, in Porter Hall, the Oil Conservation Division Hearing Room, 1st Floor, Wendell Chino Building, 1220 South St. Francis, Santa Fe, New Mexico, before an examiner duly appointed for the hearing. If you are an individual with a disability who is in need of a reader, amplifier, qualified sign language interpreter, or any other form of auxiliary aid or service to attend or participate in the hearing, please contact: Florene Davidson at 505-476-3458 or through the New Mexico Relay Network, 1-800-659-1779 by December 2, 2019. Public documents, including the agenda and minutes, can be provided in various accessible formats. Members of the public may obtain copies of the docket by contacting Ms. Davidson at the phone number indicated above. Also, the docket will be posted on the Oil Conservation Division website at www.enr.state.nm.us/OC/D/. Please contact Ms. Davidson if a summary or other type of accessible form is needed.

STATE OF NEW MEXICO TO:
All named parties and persons
having any right, title, interest
or claim in the following case
and notice to the public.

(NOTE: All land descriptions herein refer to the New Mexico Principal Meridian whether or not so stated.)

To: All overriding royalty interest owners, non-participating royalty interest owners, pooled parties, and working interest owners, including: First Roswell, LTD.; Thomas E. Jennings; EOG Resources, Inc.

Case 20925: Application of COG Operating LLC for compulsory pooling, Lea County, New Mexico. Applicant in the above-styled cause seeks an order pooling all uncommitted interest owners in the Wolfcamp formation underlying a standard 640-acre, more or less, horizontal spacing unit comprised of Lots 1-2, S/2NE/4, and the SE/4 (E/2 equivalent) of irregular Section 4 and the E/2 of Section 9, Township 24 South, Range 32 East, Lea County, New Mexico. Applicant seeks to dedicate the above-referenced horizontal spacing unit to the following proposed wells:

- The Mastiff Fed Com #701H and the Mastiff Fed Com #702H wells to be drilled from surface hole locations in NE/4NE/4 (Lot 1) of Section 4 to bottom hole locations in the SE/4SE/4 (Unit P) of Section 9.

- The Mastiff Fed Com #703H, Mastiff Fed Com #704H, and the Mastiff Fed Com #705H wells to be drilled from surface hole locations in NW/4NE/4 (Lot 2) of Section 4 to bottom hole locations in the SW/4SE/4 (Unit O) of Section 9.

The completed intervals for the proposed Mastiff Fed Com #703H well will be within 330' of the quarter-quarter line separating the W/2E/2 and the E/2E/2 of Sections 4 and 9 to allow inclusion of this acreage into a standard 640-acre horizontal well spacing unit. Also, to be considered will be the cost of drilling and completing the wells, the allocation of the cost thereof, the actual operating costs and charges for supervision, the designation of applicant as operator, and the imposition of 200% charge for risk involved in drilling and completing each well. Said area is located approximately 23 miles east of Loving, New Mexico. #34939

67115004

00236788

COG Operating LLC - SANTA FE
1048 PASEO DE PERALTA
SANTA FE, NM 87501

BEFORE THE OIL CONSERVATION
COMMISSION
Santa Fe, New Mexico
Case No. 21321 Exhibit No. 5
Submitted by:
COG OPERATING LLC
Hearing Date: November 4, 2020

Affidavit of Publication


STATE OF NEW MEXICO
COUNTY OF LEA

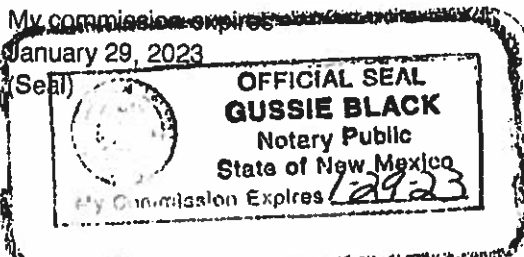
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
December 03, 2019
and ending with the issue dated
December 03, 2019.


Publisher

Sworn and subscribed to before me this
3rd day of December 2019.


Business Manager



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL

LEGAL

LEGAL

LEGAL NOTICE
DECEMBER 3, 2019

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

The State of New Mexico through its Oil Conservation Division hereby gives notice pursuant to law and the Rules and Regulations of the Division of the following public hearing to be held at 8:15 A.M. on December 12, 2019, in Porter Hall, the Oil Conservation Division Hearing Room, 1st Floor, Wendell Chino Building, 1220 South St. Francis, Santa Fe, New Mexico, before an examiner duly appointed for the hearing. If you are an individual with a disability who is in need of a reader, amplifier, qualified sign language interpreter, or any other form of auxiliary aid or service to attend or participate in the hearing, please contact: Florene Davidson at 505-476-3458 or through the New Mexico Relay Network, 1-800-859-1779 by December 2, 2019. Public documents, including the agenda and minutes, can be provided in various accessible formats. Members of the public may obtain copies of the docket by contacting Ms. Davidson at the phone number indicated above. Also, the docket will be posted on the Oil Conservation Division website at www.emnrd.state.nm.us/OCD/. Please contact Ms. Davidson if a summary or other type of accessible form is needed.

STATE OF NEW MEXICO TO:
All named parties and persons
having any right, title, interest
or claim in the following case
and notice to the public.

(NOTE: All land descriptions herein refer to the New Mexico Principal Meridian whether or not so stated.)

To: All overriding royalty interest owners, non-participating royalty interest owners, pooled parties, and working interest owners, including: First Roswell, LTD.; Thomas E. Jennings; EOG Resources, Inc.

Case 20926: Application of COG Operating LLC for compulsory pooling, Lea County, New Mexico. Applicant in the above-styled cause seeks an order pooling all uncommitted interest owners in the Wolfcamp formation underlying a standard 840-acre, more or less, horizontal spacing unit comprised of Lots 1-2, the S/2NW/4, and the SW/4 (W/2 equivalent) of Irregular Section 4, Township 24 South, Range 32 East, and the W/2 of Section 33, Township 23 South, Range 32 East, Lea County, New Mexico. Applicant seeks to dedicate the above-referenced horizontal spacing unit to the following proposed wells:

- The Mastiff Fed Com #706H, the Mastiff Fed Com #707H, and the Mastiff Fed Com #708H wells to be drilled from surface hole locations in SE/4SW/4 (Unit N) of Section 4 to bottom hole locations in the SE/4SW/4 (Unit N) of Section 33.
- The Mastiff Fed Com #709H and the Mastiff Fed Com #710H wells to be drilled from surface hole locations in SW/4SW/4 (Unit M) of Section 4 to bottom hole locations in the SW/4SW/4 (Unit M) of Section 33.

The completed intervals for the proposed Mastiff Fed Com #708H well will be within 330' of the quarter-quarter line separating the W/2W/2 and the E/2W/2 of Section 4, Township 24 South, Range 32 East, and Section 33, Township 23 South, Range 32 East, to allow inclusion of this acreage into a standard 840-acre horizontal well spacing unit. Also, to be considered will be the cost of drilling and completing the wells, the allocation of the cost thereof, the actual operating costs and charges for supervision, the designation of applicant as operator, and the imposition of 200% charge for risk involved in drilling and completing each well. Said area is located approximately 23 miles east of Loving, New Mexico.
#34934

67115004

00236741

COG Operating LLC - SANTA FE
1048 PASEO DE PERALTA
SANTA FE, NM 87501

Affidavit of Publication

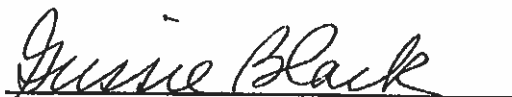
STATE OF NEW MEXICO
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
December 04, 2019
and ending with the issue dated
December 04, 2019.

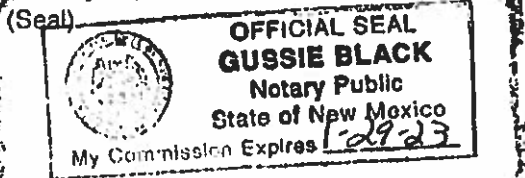

Publisher

Sworn and subscribed to before me this
4th day of December 2019.


Business Manager

My commission expires

January 29, 2023



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said



LEGAL NOTICE
DECEMBER 4, 2019

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

The State of New Mexico through its Oil Conservation Division hereby gives notice pursuant to law and the Rules and Regulations of the Division of the following public hearing to be held at 8:15 A.M. on December 12, 2019, in Porter Hall, the Oil Conservation Division Hearing Room, 1st Floor, Wendell Chino Building, 1220 South St. Francis, Santa Fe, New Mexico, before an examiner duly appointed for the hearing. If you are an individual with a disability who is in need of a reader, amplifier, qualified sign language interpreter, or any other form of auxiliary aid or service to attend or participate in the hearing, please contact: Florene Davidson at 505-478-3458 or through the New Mexico Relay Network, 1-800-659-1779 by December 2, 2019. Public documents, including the agenda and minutes, can be provided in various accessible formats. Members of the public may obtain copies of the docket by contacting Ms. Davidson at the phone number indicated above. Also, the docket will be posted on the Oil Conservation Division website at www.emnrd.state.nm.us/OCD/. Please contact Ms. Davidson if a summary or other type of accessible form is needed.

STATE OF NEW MEXICO TO:
All named parties and persons
having any right, title, interest
or claim in the following case
and notice to the public.

(NOTE: All land descriptions herein refer to the New Mexico Principal Meridian whether or not so stated.)

To: All overriding royalty interest owners, non-participating royalty interest owners, pooled parties, and working interest owners, including: First Roswell, LTD.; Thomas E. Jennings; EOG Resources, Inc.

Case 20923: Application of COG Operating LLC for compulsory pooling, Lea County, New Mexico. Applicant in the above-styled cause seeks an order pooling all uncommitted interest owners in the Bone Spring formation underlying a standard 640-acre, more or less, horizontal spacing unit comprised of the Lots 1-2, S/2NE/4, and the SE/4 (E/2 equivalent) of irregular Section 4, and the E/2 of Section 9, Township 24 South, Range 32 East, Lea County, New Mexico. Applicant seeks to dedicate the above-referenced horizontal spacing unit to the following proposed wells:

• The Mastiff Fed Com #201H, the Mastiff Fed Com #202H, the Mastiff Fed Com #301H, the Mastiff Fed Com #302H, Mastiff Fed Com #501H, and the Mastiff Fed Com #502H wells to be drilled from surface hole locations in NE/4NE/4 (Lot 1) of Section 4 to bottom hole locations in the SE/4SE/4 (Unit P) of Section 9.

• The Mastiff Fed Com #203H, the Mastiff Fed Com #303H, the Mastiff Fed Com #304H, the Mastiff Fed Com #305H, the Mastiff Fed Com #503H, and the Mastiff Fed Com #504H wells to be drilled from surface hole locations in NW/4NE/4 (Lot 2) of Section 4 to bottom hole locations in the SW/4SE/4 (Unit O) of Section 9.

The completed intervals for the proposed Mastiff Fed Com #202H well will be within 330' of the quarter-quarter line separating the W/2E/2 and the E/2E/2 of Sections 4 and 9 to allow inclusion of this acreage into a standard 640-acre horizontal well spacing unit. Also, to be considered will be the cost of drilling and completing the wells, the allocation of the cost thereof, the actual operating costs and charges for supervision, the designation of applicant as operator, and the imposition of 200% charge for risk involved in drilling and completing each well. Said area is located approximately 23 miles east of Loving, New Mexico. #34938

67115004

00236774

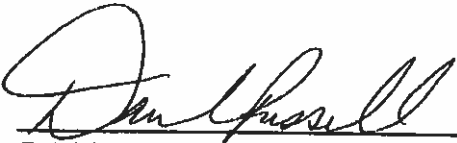
COG Operating LLC - SANTA FE
1048 PASEO DE PERALTA
SANTA FE, NM 87501

Affidavit of Publication

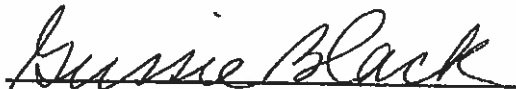
STATE OF NEW MEXICO
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
December 04, 2019
and ending with the issue dated
December 04, 2019.


Publisher

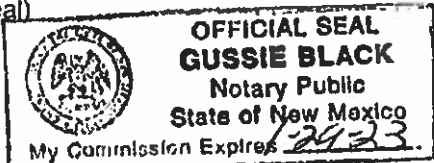
Sworn and subscribed to before me this
4th day of December 2019.


Business Manager

My commission expires

January 20, 2023

(Seal)



This newspaper is duly qualified to publish
legal notices or advertisements within the
meaning of Section 3, Chapter 167, Laws of
1937 and payment of fees for said

LEGAL

LEGAL

LEGAL

LEGAL NOTICE
DECEMBER 4, 2019

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

The State of New Mexico through its Oil Conservation Division hereby gives notice pursuant to law and the Rules and Regulations of the Division of the following public hearing to be held at 8:15 A.M. on December 12, 2019, in Porter Hall, the Oil Conservation Division Hearing Room, 1st Floor, Wendell Chino Building, 1220 South St. Francis, Santa Fe, New Mexico, before an examiner duly appointed for the hearing. If you are an individual with a disability who is in need of a reader, amplifier, qualified sign language interpreter, or any other form of auxiliary aid or service to attend or participate in the hearing, please contact: Florene Davidson at 505-470-3450 or through the New Mexico Relay Network, 1-800-659-1779 by December 2, 2019. Public documents, including the agenda and minutes, can be provided in various accessible formats. Members of the public may obtain copies of the docket by contacting Ms. Davidson at the phone number indicated above. Also, the docket will be posted on the Oil Conservation Division website at www.emnrd.state.nm.us/OC/D/. Please contact Ms. Davidson if a summary or other type of accessible form is needed.

STATE OF NEW MEXICO TO:
All named parties and persons
having any right, title, interest
or claim in the following case
and notice to the public.

(NOTE: All land descriptions herein refer to the New Mexico Principal Meridian whether or not so stated.)

To: All overriding royalty interest owners, non-participating royalty interest owners, pooled parties, and working interest owners, including: First Roswell, LTD.; Thomas E. Jennings; EOG Resources, Inc.

Case 20924: Application of COG Operating LLC for compulsory pooling, Lea County, New Mexico. Applicant in the above-styled cause seeks an order pooling all uncommitted interest owners in the Bone Spring formation underlying a standard 840-acre, more or less, horizontal spacing unit comprised of Lots 3-4, the S/2NW/4, and the SW/4 (W/2 equivalent) of irregular Section 4, Township 24 South, Range 32 East, and the W/2 of Section 33, Township 23 South, Range 32 East, Lea County, New Mexico. Applicant seeks to dedicate the above-referenced horizontal spacing unit to the following proposed wells:

- The Mastiff Fed Com #204H, the Mastiff Fed Com #306H, and the Mastiff Fed Com #307H wells to be drilled from surface hole locations in SE/4SW/4 (Unit N) of Section 4 to bottom hole locations in the NE/4NW/4 (Unit C) of Section 33.

- The Mastiff Fed Com #205H, the Mastiff Fed Com #308H, the Mastiff Fed Com #309H, the Mastiff Fed Com #310H, the Mastiff Fed Com #505H, the Mastiff Fed Com #506H, the Mastiff Fed Com #507H wells to be drilled from surface hole locations in SW/4SW/4 (Unit M) of Section 4 to bottom hole locations in the NW/4NW/4 (Unit D) of Section 33.

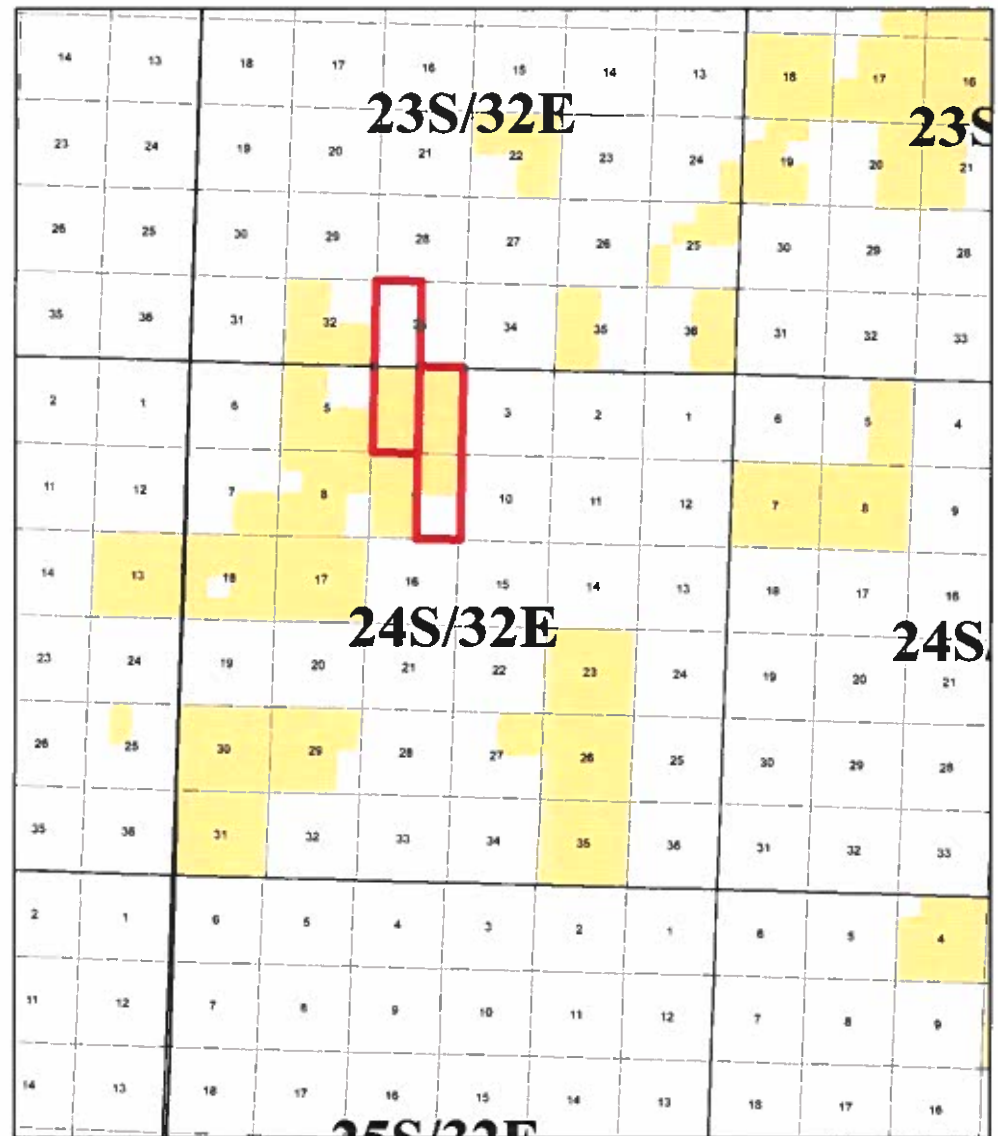
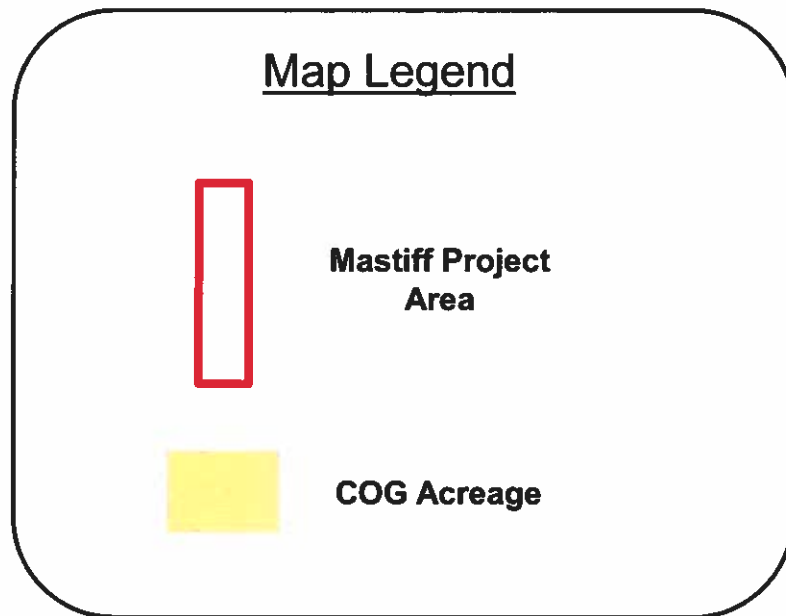
The completed intervals for the proposed Mastiff Fed Com #308H well will be within 330' of the quarter-quarter line separating the W/2W/2 and the E/2W/2 of Sections 4 and 33 to allow inclusion of this acreage into a standard 840-acre horizontal well spacing unit. Also, to be considered will be the cost of drilling and completing the wells, the allocation of the cost thereof, the actual operating costs and charges for supervision, the designation of applicant as operator, and the imposition of 200% charge for risk involved in drilling and completing each well. Said area is located approximately 23 miles east of Loving, New Mexico. #34937

67115004

00236767

COG Operating LLC - SANTA FE
1048 PASEO DE PERALTA
SANTA FE, NM 87501

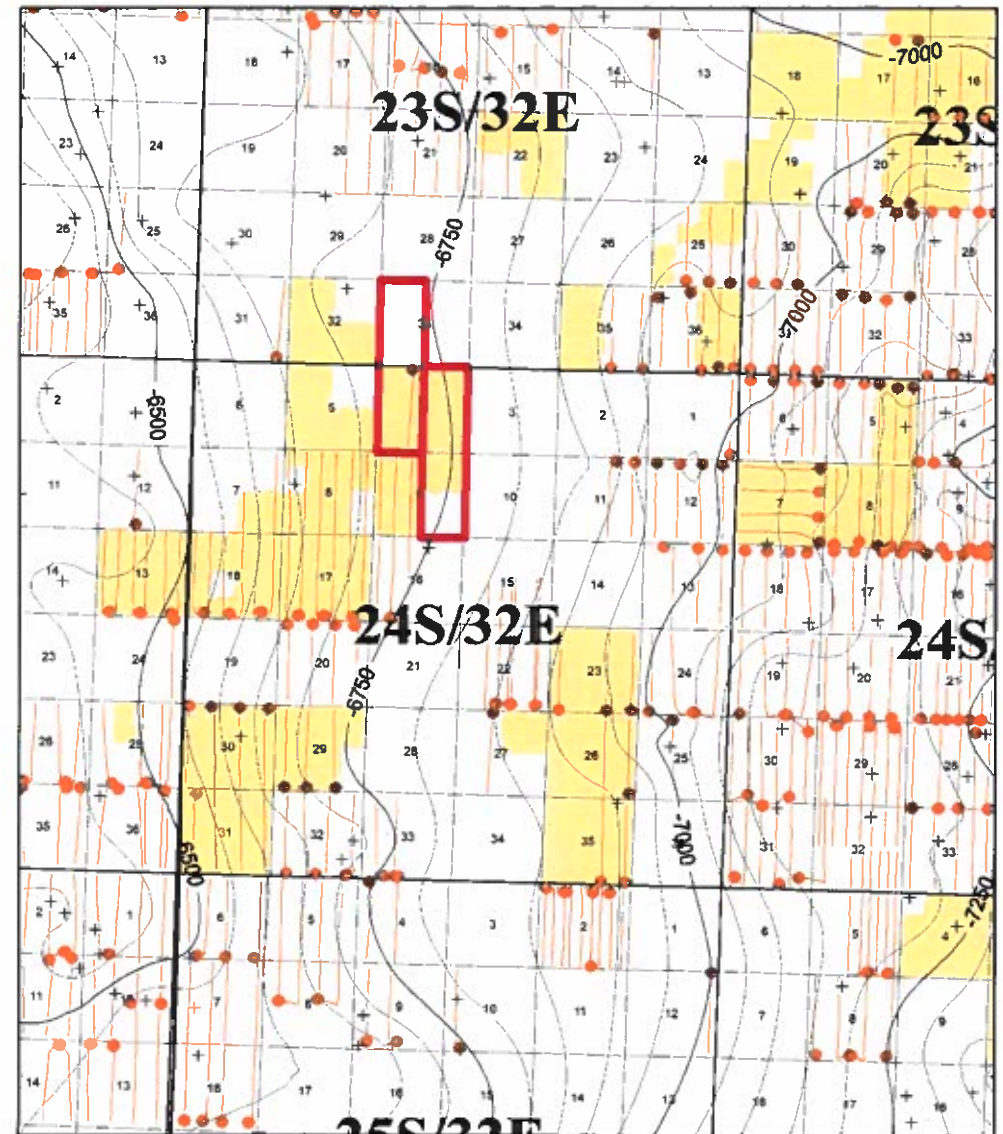
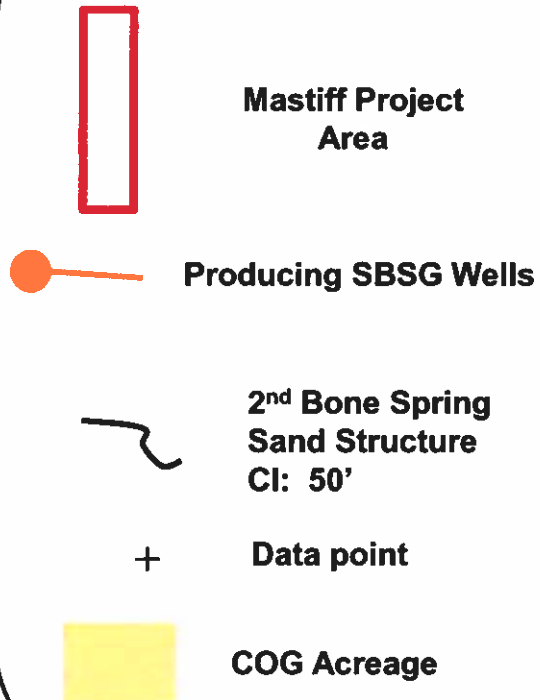
Location Map-Mastiff Project Area



Bone Spring Pool

Mastiff Federal Com 501H, 502H, 503H, 504H, 505H, 506H, & 507H

Map Legend



BEFORE THE OIL CONSERVATION
COMMISSION
Santa Fe, New Mexico
Case No. 21321 Exhibit No. 7
Submitted by:
COG OPERATING LLC
Hearing Date: November 4, 2020

Bone Spring Pool

Mastiff Federal Com 501H, 502H, 503H, 504H, 505H, 506H, & 507H

Map Legend



Mastiff Project
Area



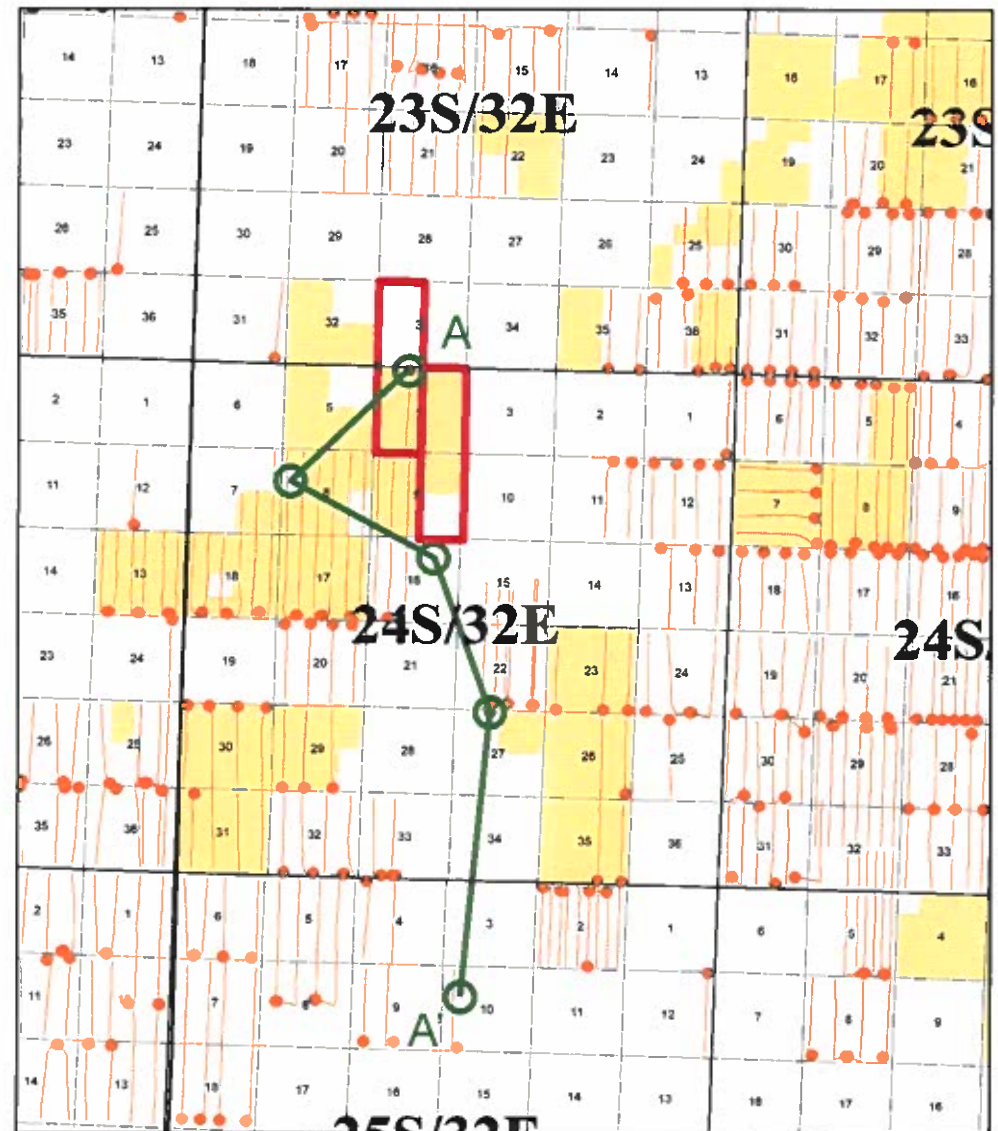
Producing SBSG Wells



Cross Section Line A-A'



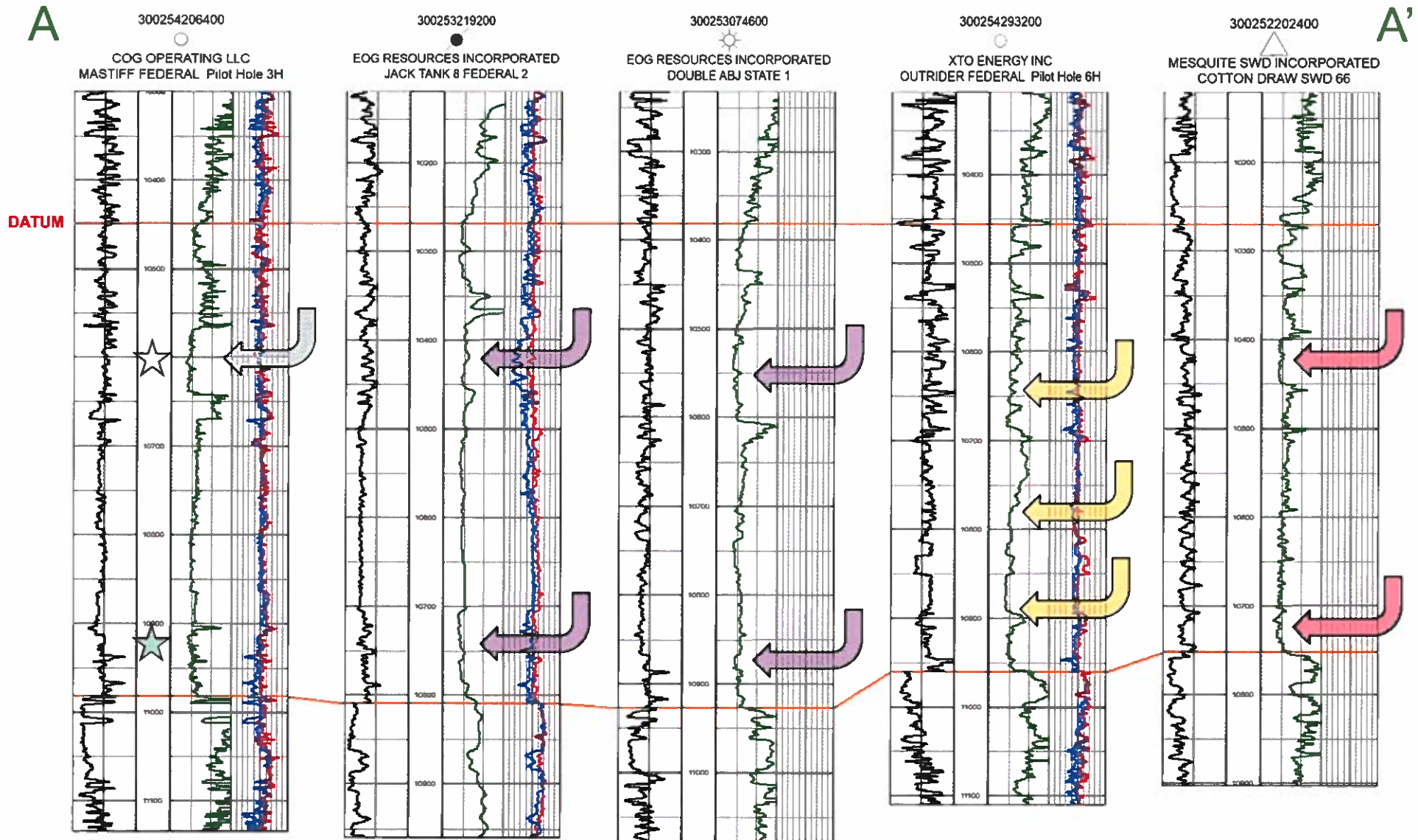
COG Acreage



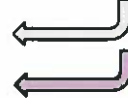
BEFORE THE OIL CONSERVATION
COMMISSION
Santa Fe, New Mexico
Case No. 21321 Exhibit No. 8
Submitted by:
COG OPERATING LLC
Hearing Date: November 4, 2020

Bone Spring Pool

Mastiff Federal Com 501H, 502H, 503H, 504H, 505H, 506H, & 507H



COG Proposed
Mastiff Landings



COG SBSG Sand Targets



OXY SBSG Sand Targets



Apache SBSG Sand Targets

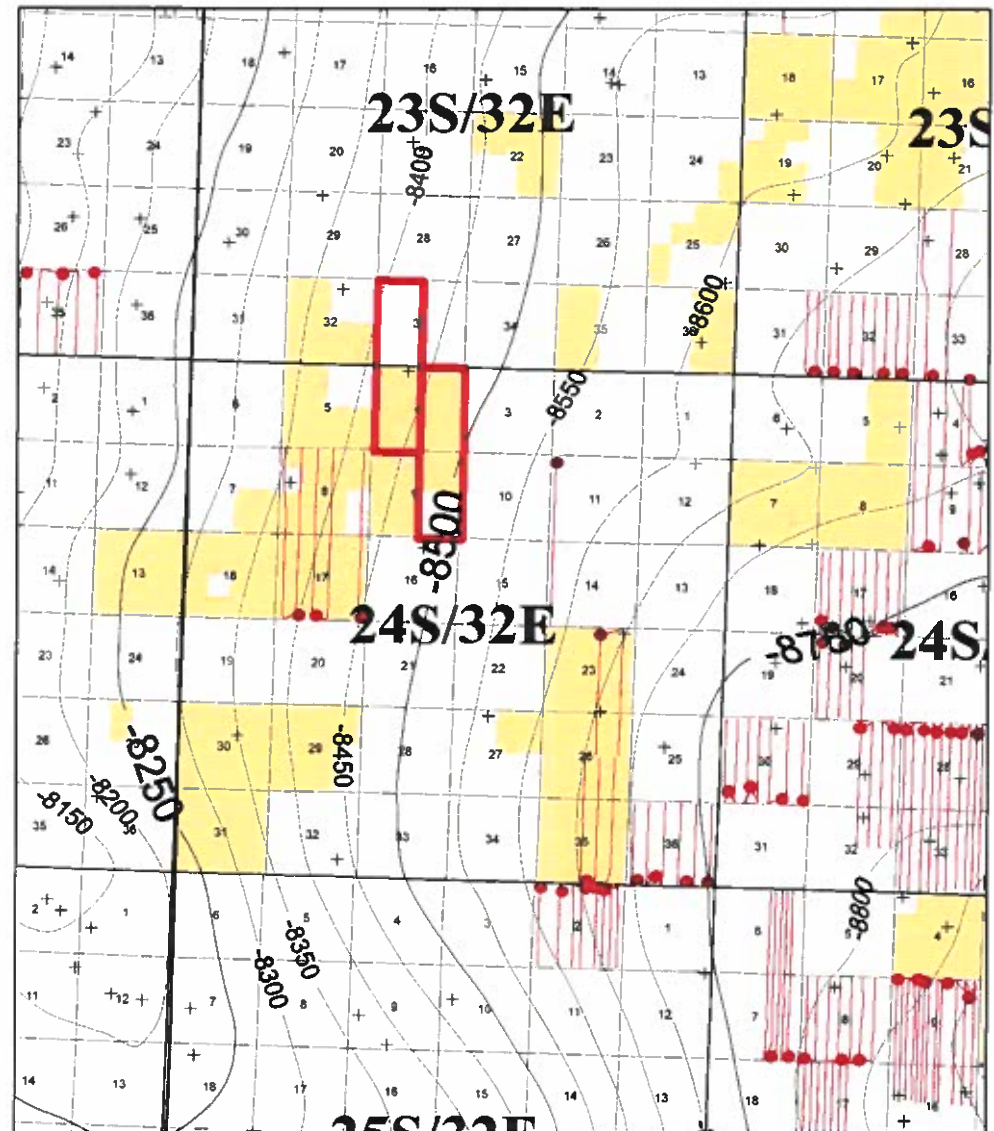
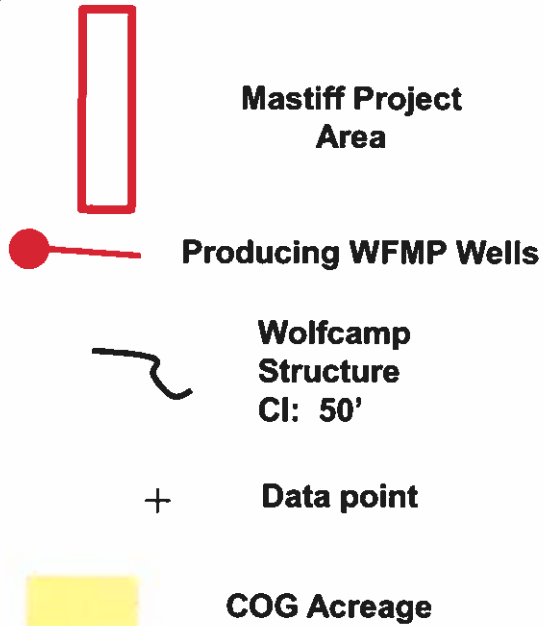


EOG SBSG Sand Targets

Wolfcamp Pool

Mastiff Federal Com 701H, 702H, 703H, 704H, 705H, 706H, 707H, 708H, 709H, & 710H

Map Legend

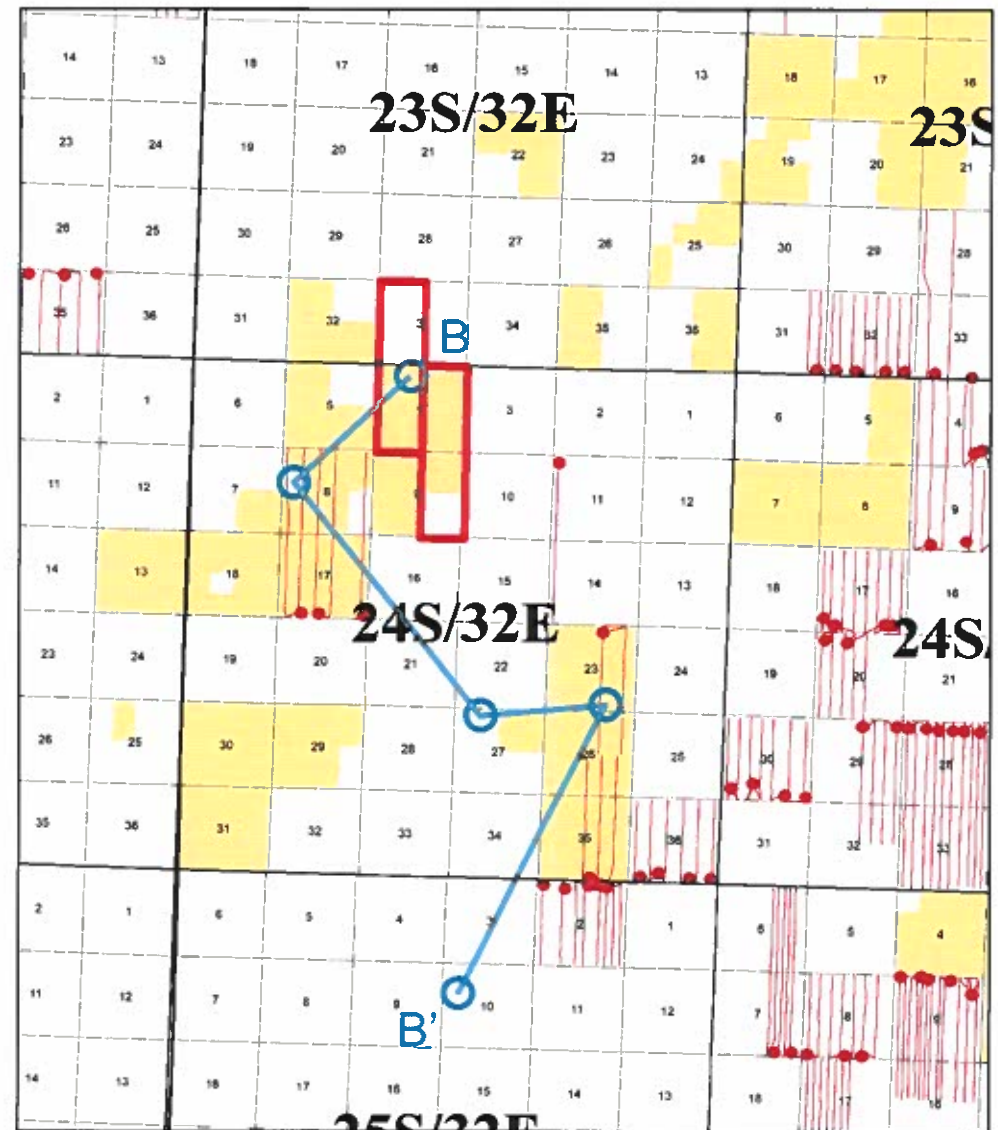
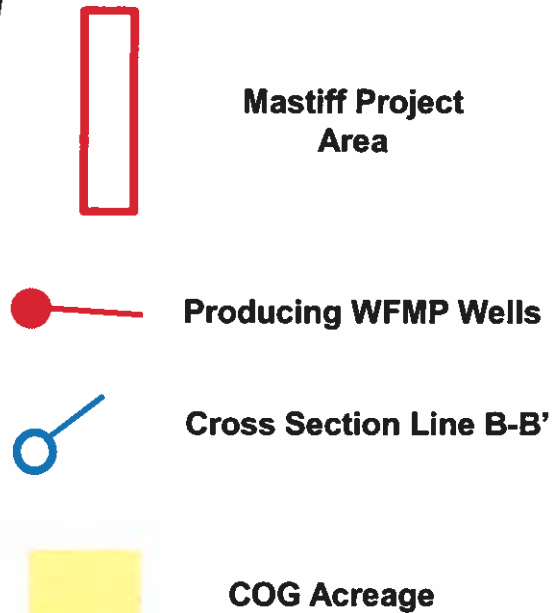


BEFORE THE OIL CONSERVATION
COMMISSION
Santa Fe, New Mexico
Case No. 21321 Exhibit No. 10
Submitted by:
COG OPERATING LLC
Hearing Date: November 4, 2020

Wolfcamp Pool

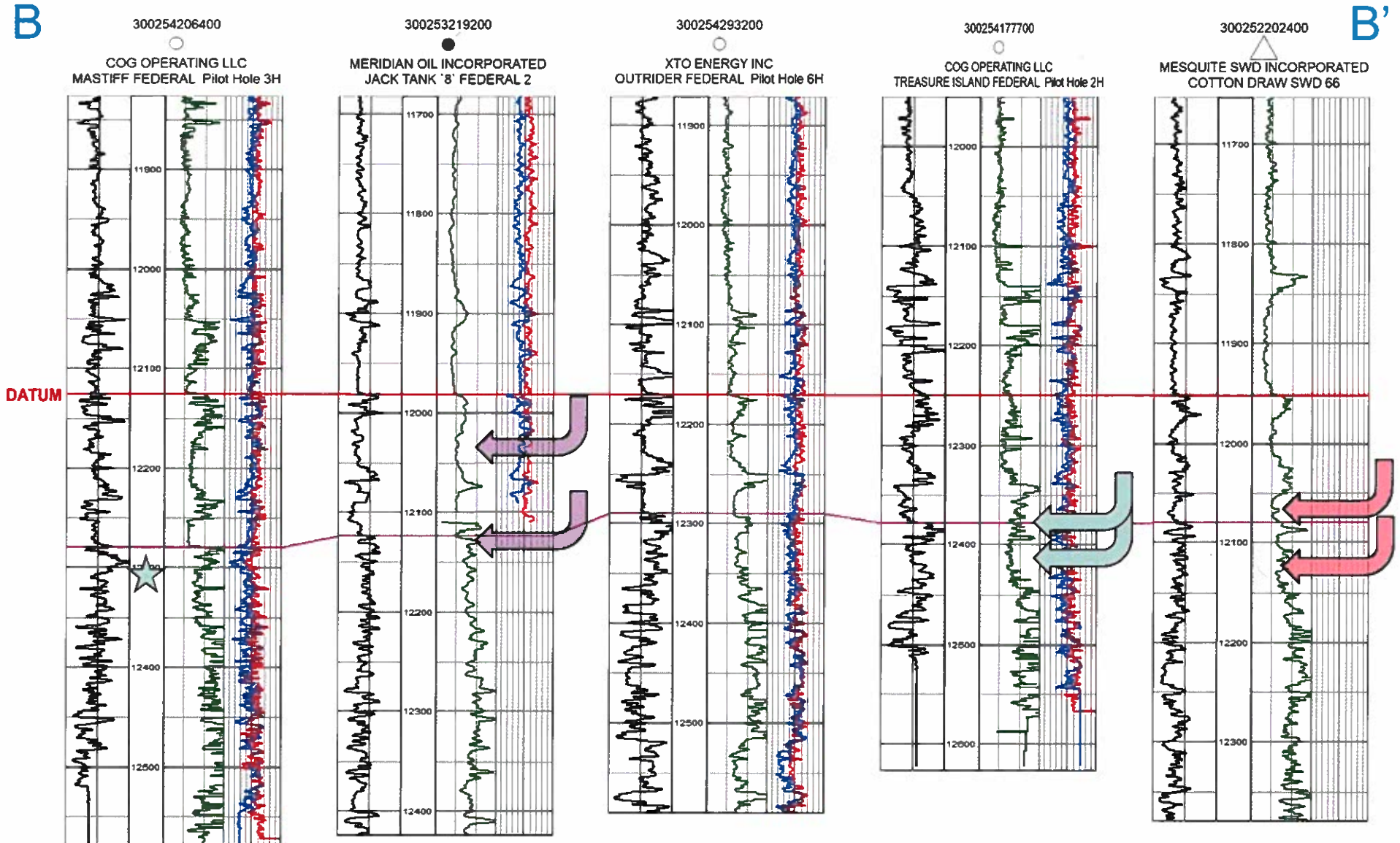
Mastiff Federal Com 701H, 702H, 703H, 704H, 705H, 706H, 707H, 708H, 709H, & 710H

Map Legend



Wolfcamp Pool

Mastiff Federal Com 701H, 702H, 703H, 704H, 705H, 706H, 707H, 708H, 709H, & 710H



Wolfcamp Pool

Mastiff Federal Com 701H, 702H, 703H, 704H, 705H, 706H, 707H, 708H, 709H, & 710H

Map Legend



**Mastiff Project
Area**



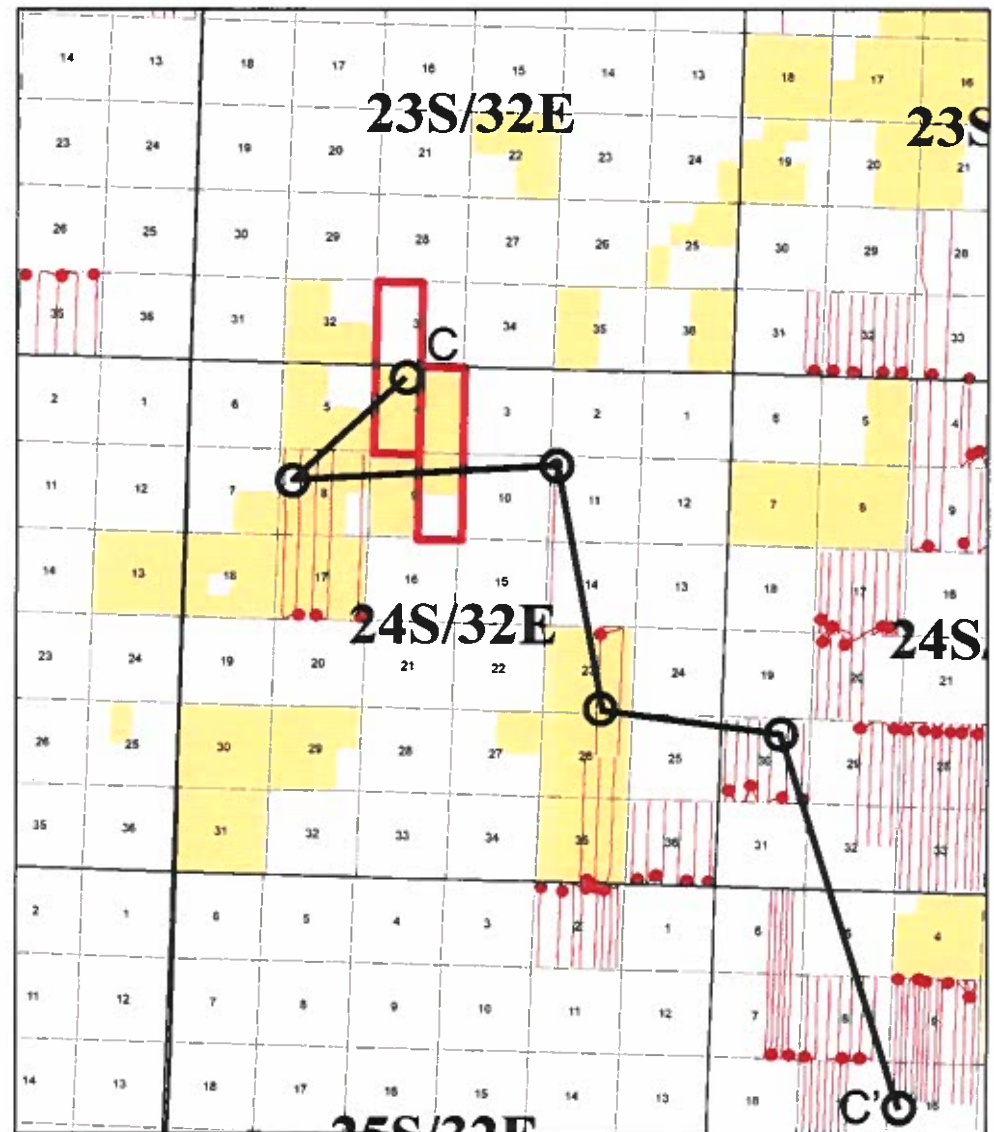
Producing WFMP Wells



Cross Section Line C-C'



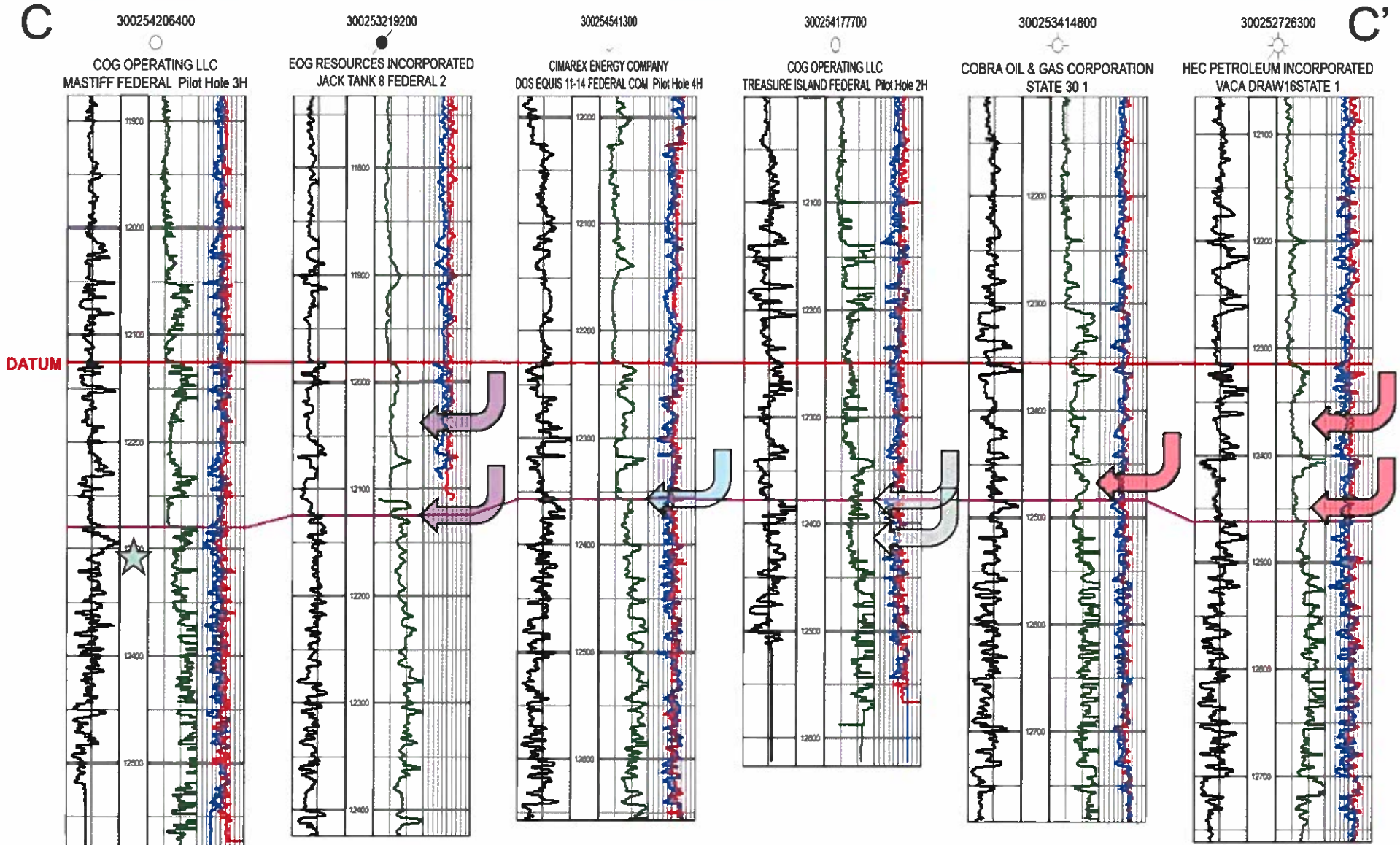
COG Acreage



BEFORE THE OIL CONSERVATION
COMMISSION
Santa Fe, New Mexico
Case No. 21321 Exhibit No. 13
Submitted by:
COG OPERATING LLC
Hearing Date: November 4, 2020

Wolfcamp Pool

Mastiff Federal Com 701H, 702H, 703H, 704H, 705H, 706H, 707H, 708H, 709H, & 710H



COG Proposed
Mastiff Landings



COG WFMP Targets
OXY WFMP Targets



CMX WFMP Targets
EOG WFMP Targets

Bone Spring Pool

Mastiff Federal Com 201H, 202H, 203H, 204H, 205H,
301H, 302H, 303H, 304H, 305H, 306H, 307H, 308H, 309H, & 310H

Map Legend



**Mastiff Project
Area**



Producing Avalon Wells



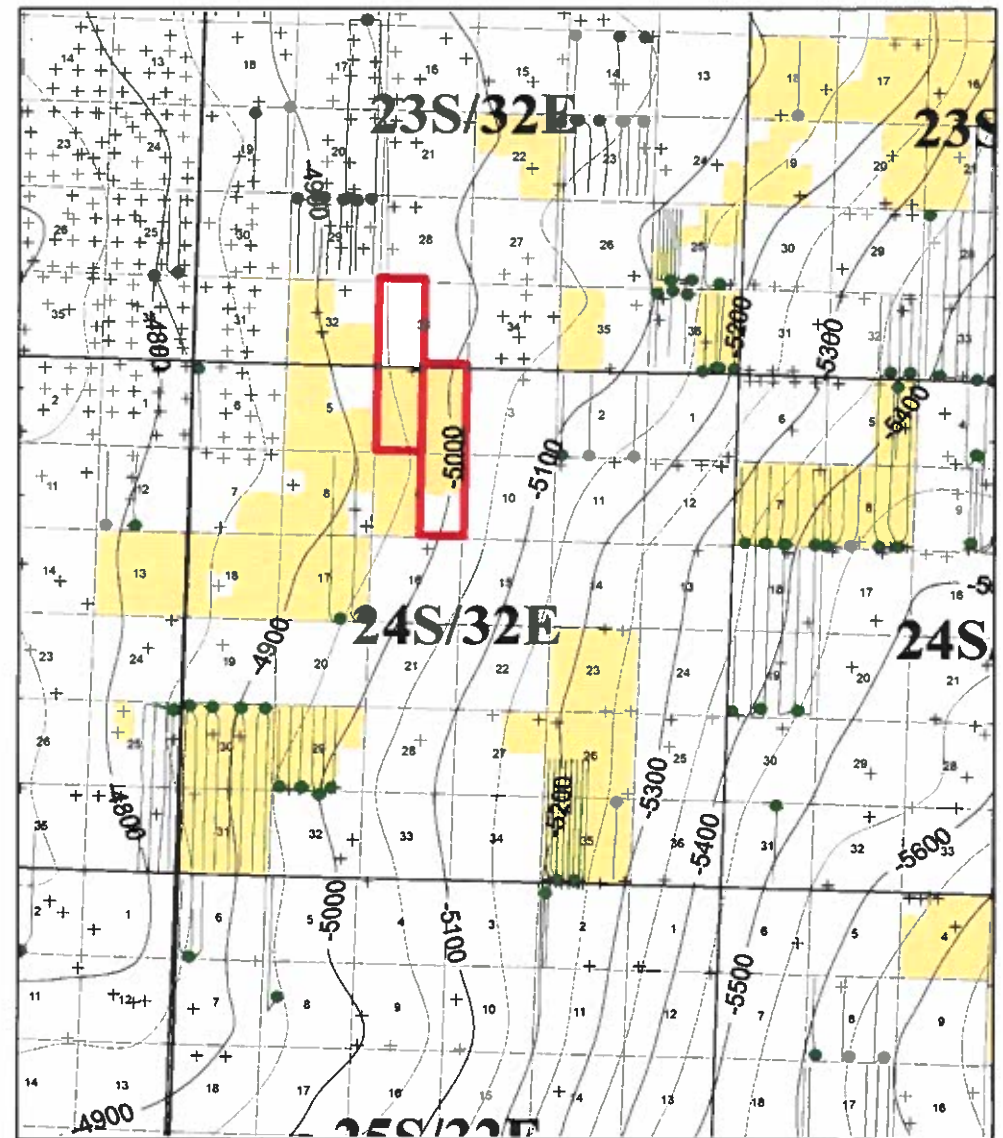
**Bone Spring
Structure
CI: 50'**



Data point



COG Acreage



BEFORE THE OIL CONSERVATION
COMMISSION
Santa Fe, New Mexico
Case No. 21321 Exhibit No. 15
Submitted by:
COG OPERATING LLC
Hearing Date: November 4, 2020

Bone Spring Pool

Mastiff Federal Com 201H, 202H, 203H, 204H, 205H,
301H, 302H, 303H, 304H, 305H, 306H, 307H, 308H, 309H, & 310H

Map Legend



**Mastiff Project
Area**



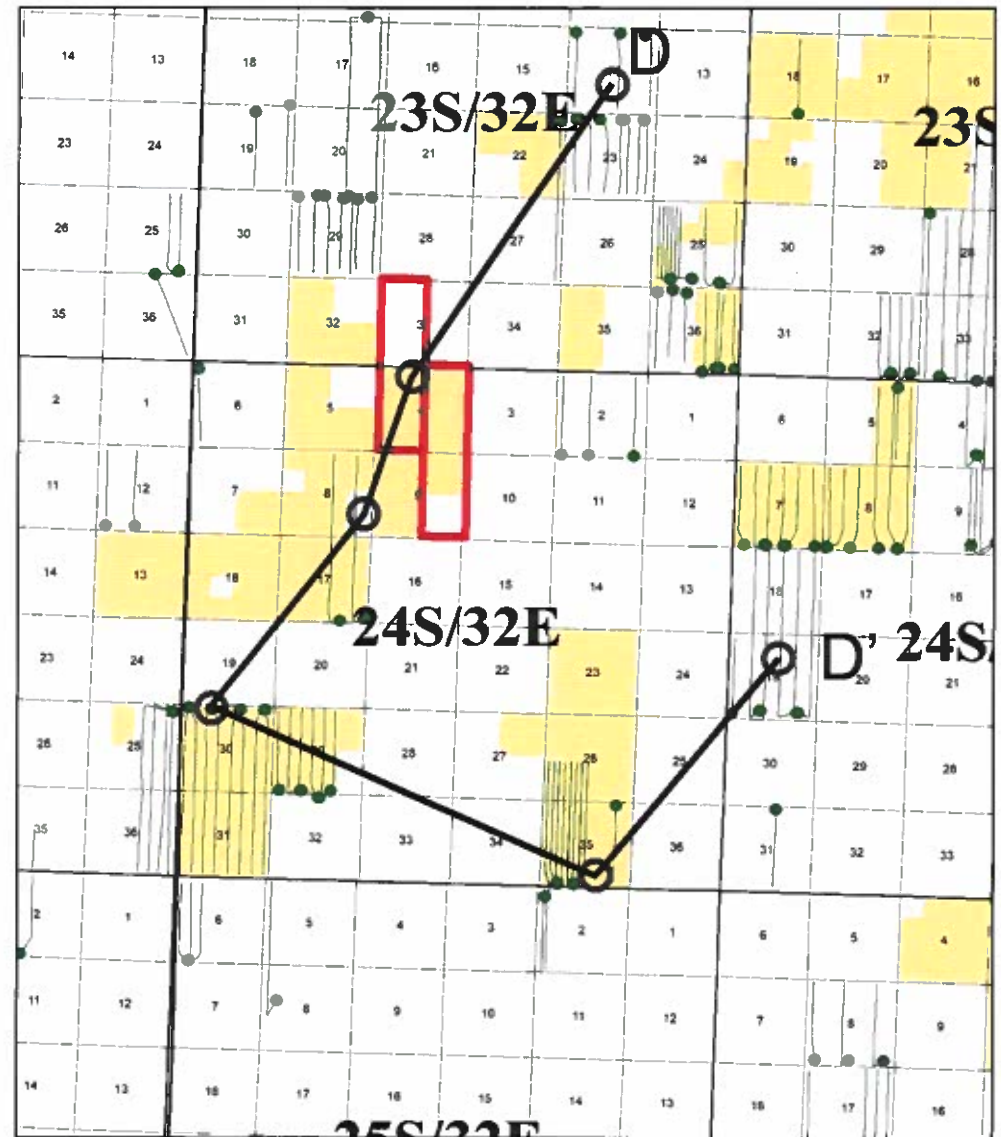
Producing Avalon Wells



Cross Section Line D-D'



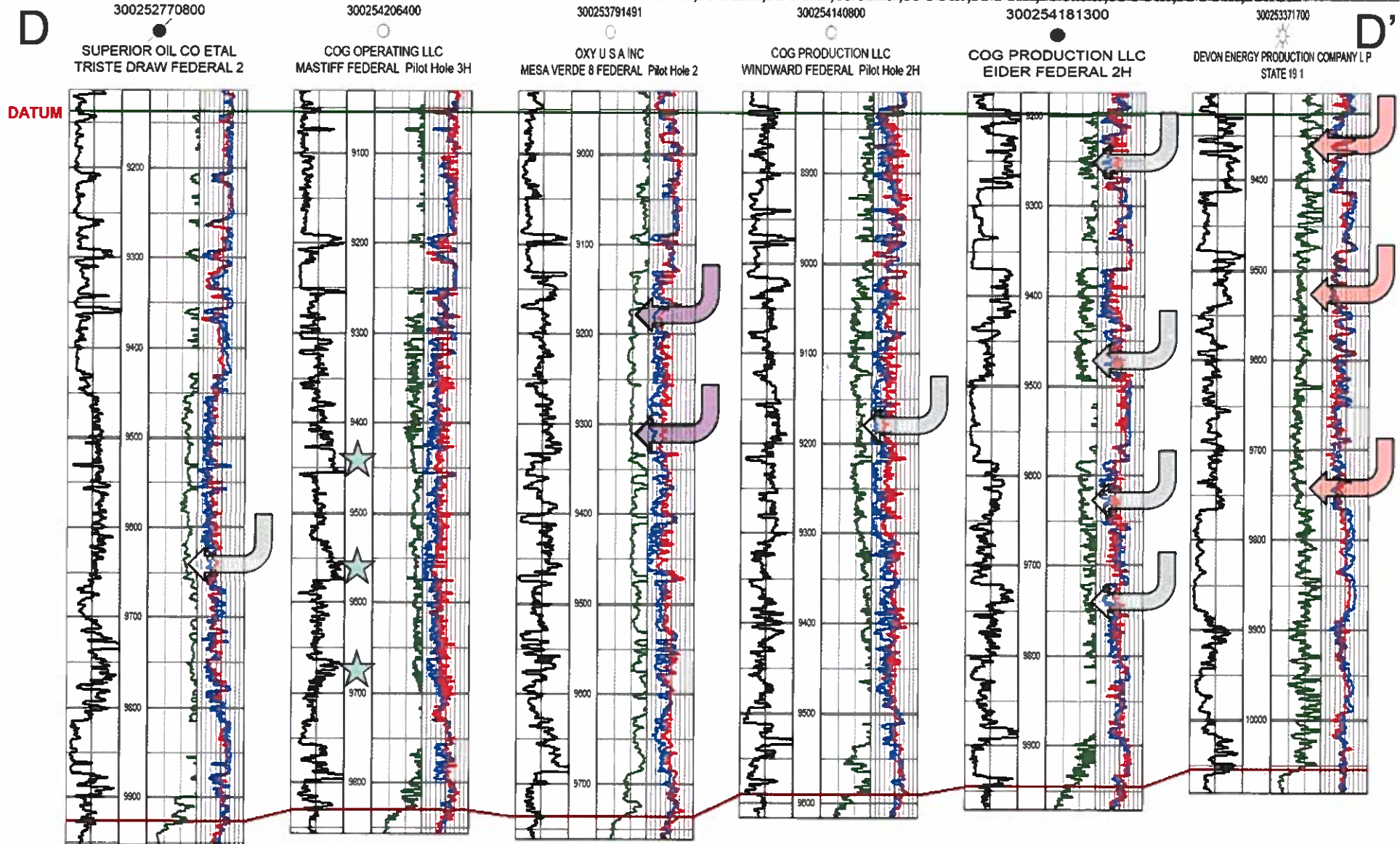
COG Acreage



BEFORE THE OIL CONSERVATION
COMMISSION
Santa Fe, New Mexico
Case No. 21321 Exhibit No. 16
Submitted by:
COG OPERATING LLC
Hearing Date: November 4, 2020

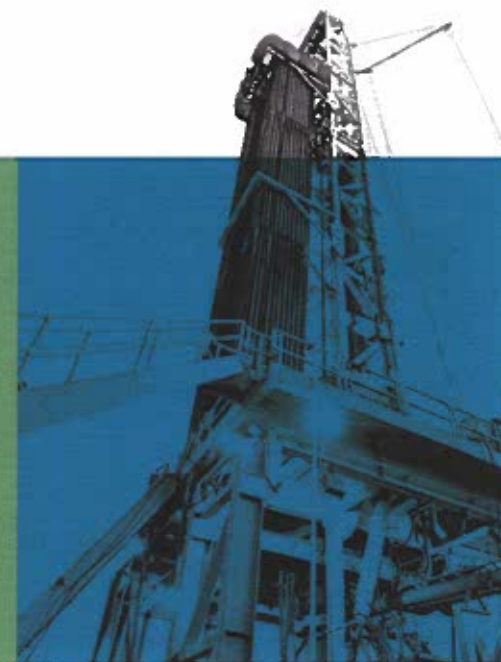
Bone Spring Pool

Mastiff Federal Com 201H, 202H, 203H, 204H, 205H,
301H, 302H, 303H, 304H, 305H, 306H, 307H, 308H, 309H, & 310H





MASTIFF AVALON



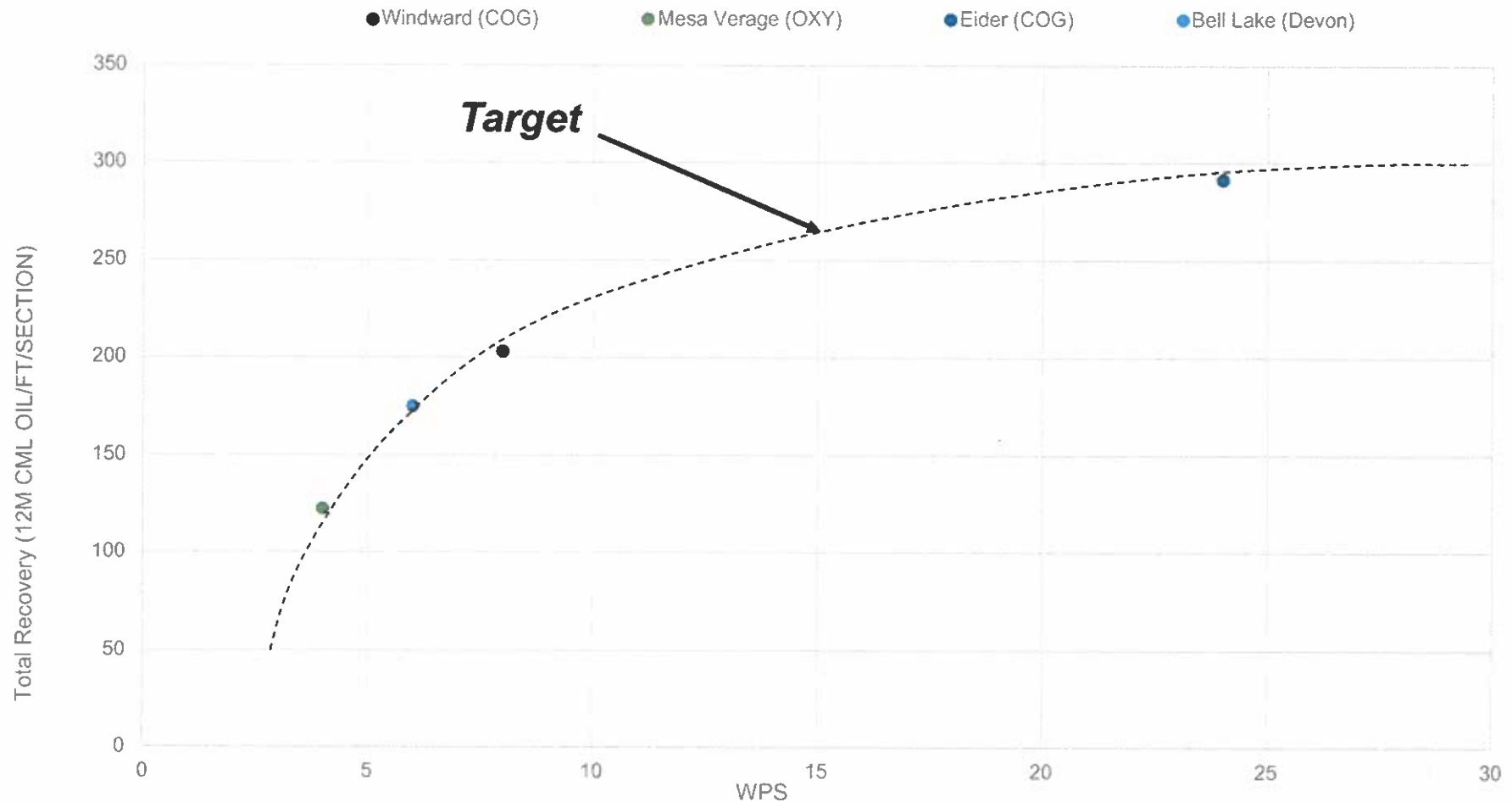
Well Criteria

Selected interior Avalon wells geologically analogous to the proposed Mastiff project with modern completions over a range of spacings

This was used to find trends in well performance and recovery to determine the optimal development plan to economically maximize recovery

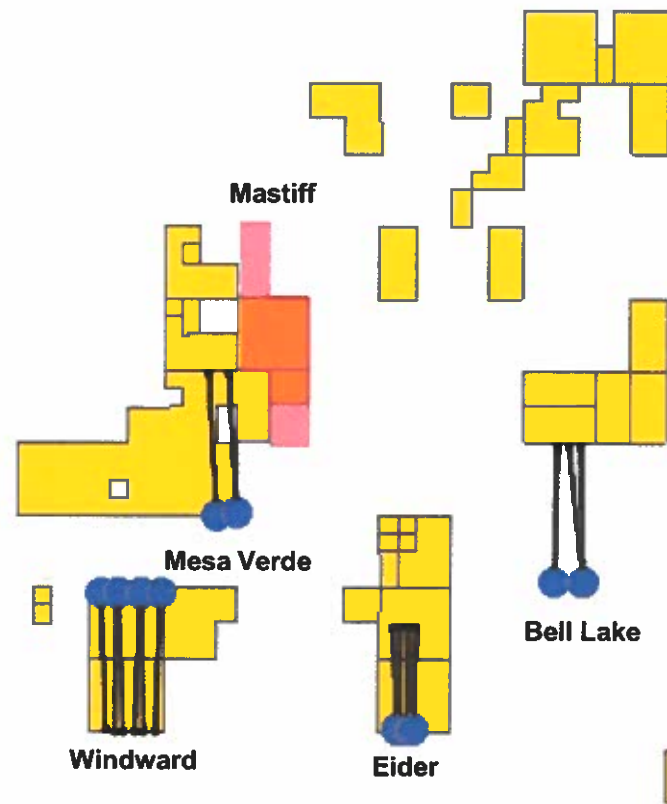
Interior Avalon Wells Average By Project

Average Total Recovery by Avalon Project Geologically Equivalent to Mastiff

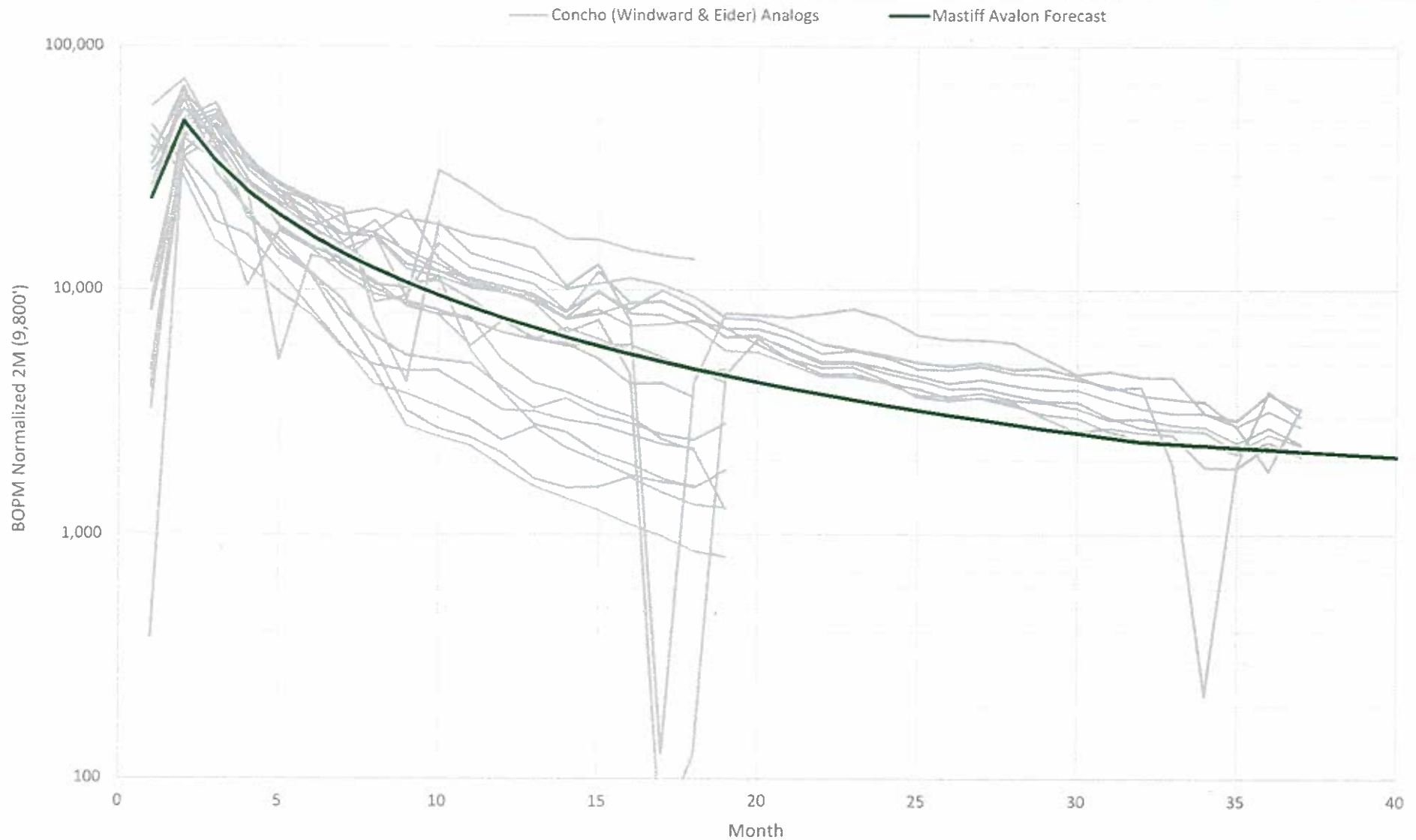


Well List

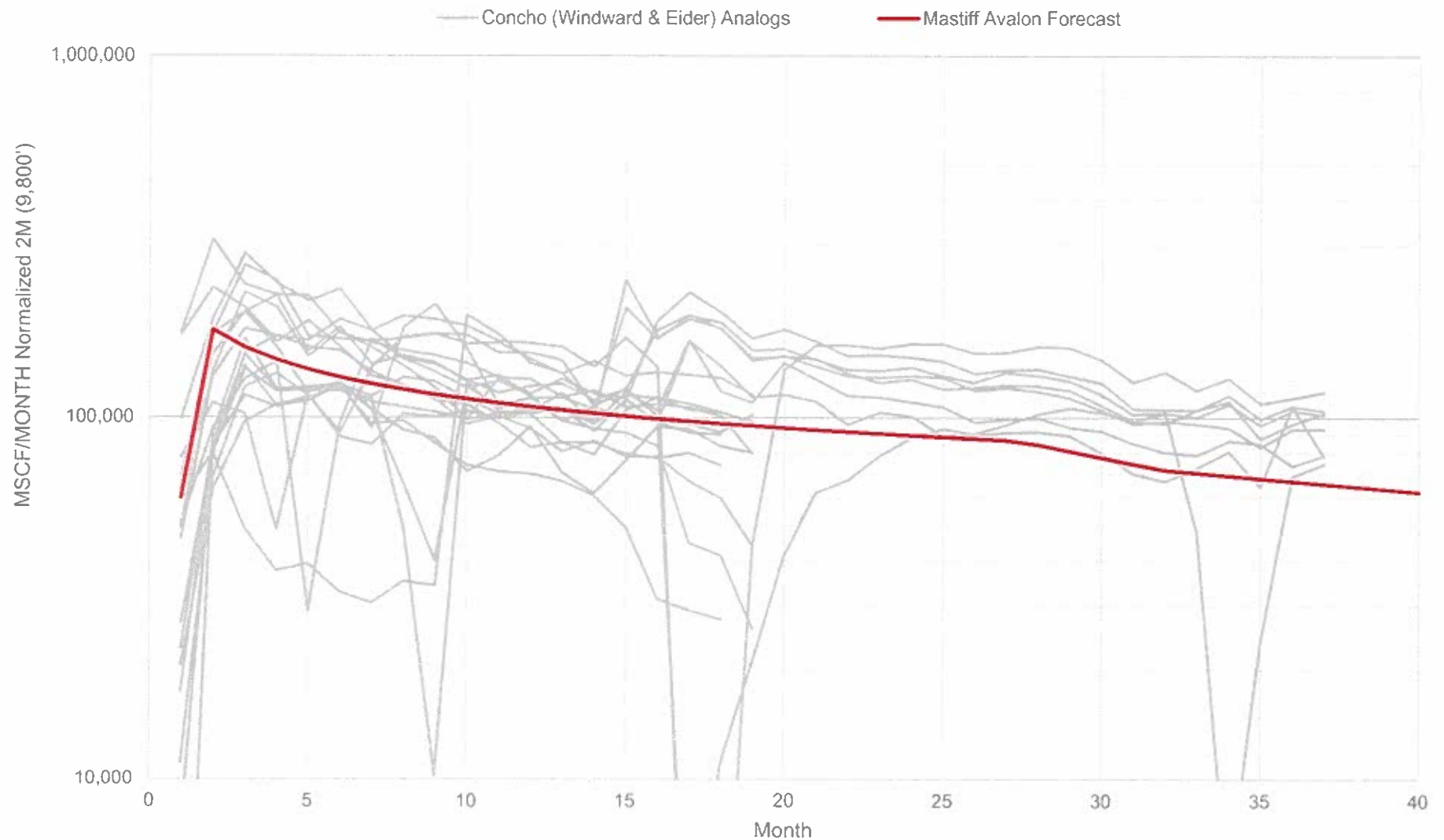
Alias	API	YOP
BELL LAKE 19 18 STATE COM 007H	3002545451	2019
BELL LAKE 19 18 STATE COM 010H	3002545453	2019
BELL LAKE 19 18 STATE COM 013Y	3002545621	2019
EIDER FEDERAL 102H	3002544630	2019
EIDER FEDERAL 103H	3002544631	2019
EIDER FEDERAL 104H	3002544632	2019
EIDER FEDERAL 201H	3002544634	2019
EIDER FEDERAL 202H	3002544627	2019
EIDER FEDERAL 203H	3002544635	2019
EIDER FEDERAL 302H	3002544637	2019
EIDER FEDERAL 303H	3002544638	2019
EIDER FEDERAL 304H	3002544639	2019
MESA VERDE BS UNIT 001H	3002544101	2018
MESA VERDE BS UNIT 003	3002544183	2018
WINDWARD FEDERAL 10H	3002543567	2017
WINDWARD FEDERAL 11H	3002543707	2017
WINDWARD FEDERAL 6H	3002543465	2017
WINDWARD FEDERAL 7H	3002543516	2017
WINDWARD FEDERAL 8H	3002543517	2017
WINDWARD FEDERAL 9H	3002543566	2017



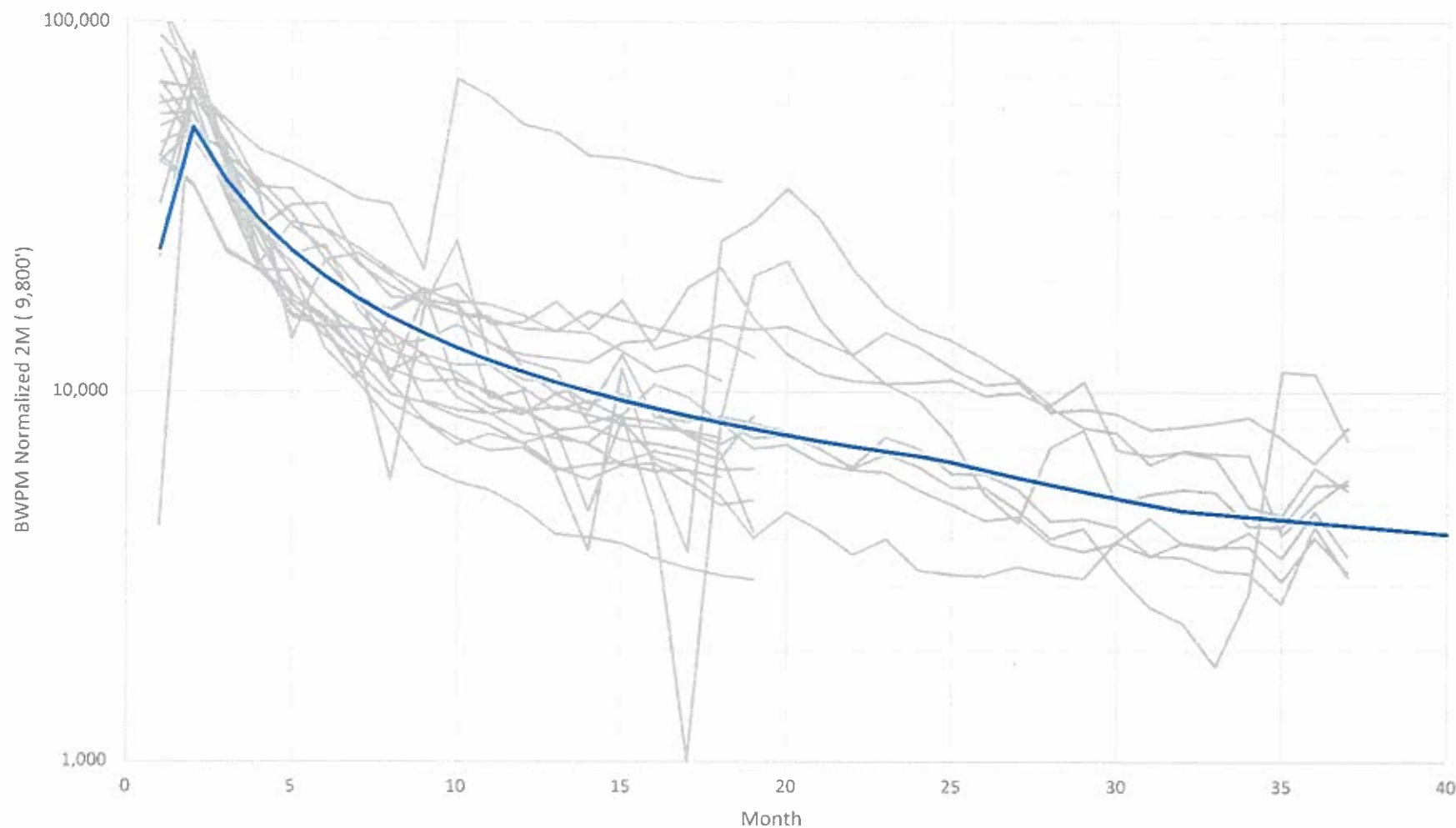
Oil Type Curve



Gas Type Curve



Water Type Curve



Economics

W/2 Section 33, T23S-R32E & Section 4, T24S-R32E

Name	WI/NRI	Number of Wells	Total Cost/Well (\$MM)	EUR (MBO/Well)	EUR (MBOE/Well)	ROR (%)	PV10/Well (\$M)	Total Project PV10 (\$MM)	Total Project EUR (MMBO)
Mastiff (CXO)	50/42.75	8	10.4	450	1,700	55%	3,128	25	3.6
Mastiff + 10% (CXO)	50/42.75	5	10.4	500	1,880	70%	4,000	20	2.5
Δ								5	1.1

E/2 Section 4 & 9, T24S-R32E

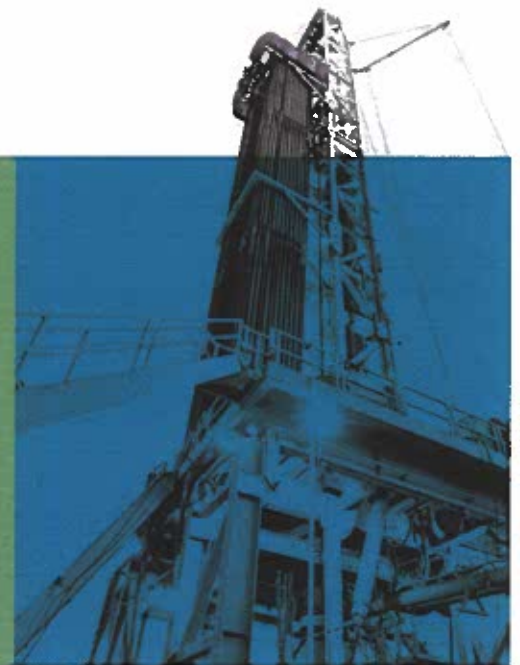
Name	WI/NRI	Number of Wells	Total Cost/Well (\$MM)	EUR (MBO/Well)	EUR (MBOE/Well)	ROR (%)	PV10/Well (\$M)	Total Project PV10 (\$MM)	Total Project EUR (MMBO)
Mastiff (CXO)	75/62.75	7	10.4	450	1,700	50%	4,408	31	3.2
Mastiff + 10% (CXO)	75/62.75	5	10.4	500	1,880	66%	5,724	29	2.5
Δ								2	0.7
Total Δ								7	1.8

By drilling at higher density spacing, Concho will recover and additional **1.8 MMBO** and **7 million PV10**





MASTIFF 2nd BONE SPRING



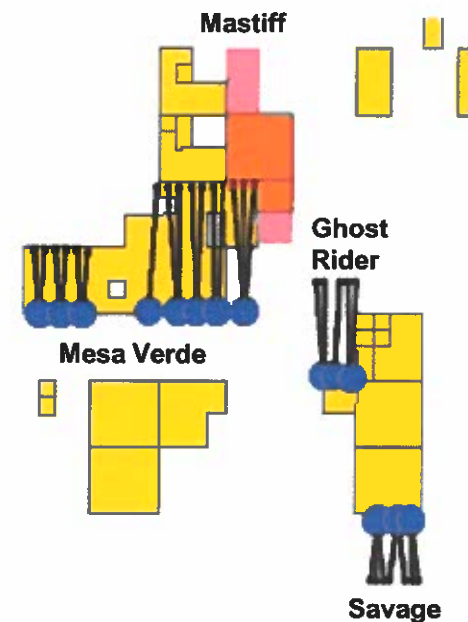
Type Curve Wells

Selected SBSG wells geologically analogous to the proposed Mastiff project with modern completions with similar spacing.

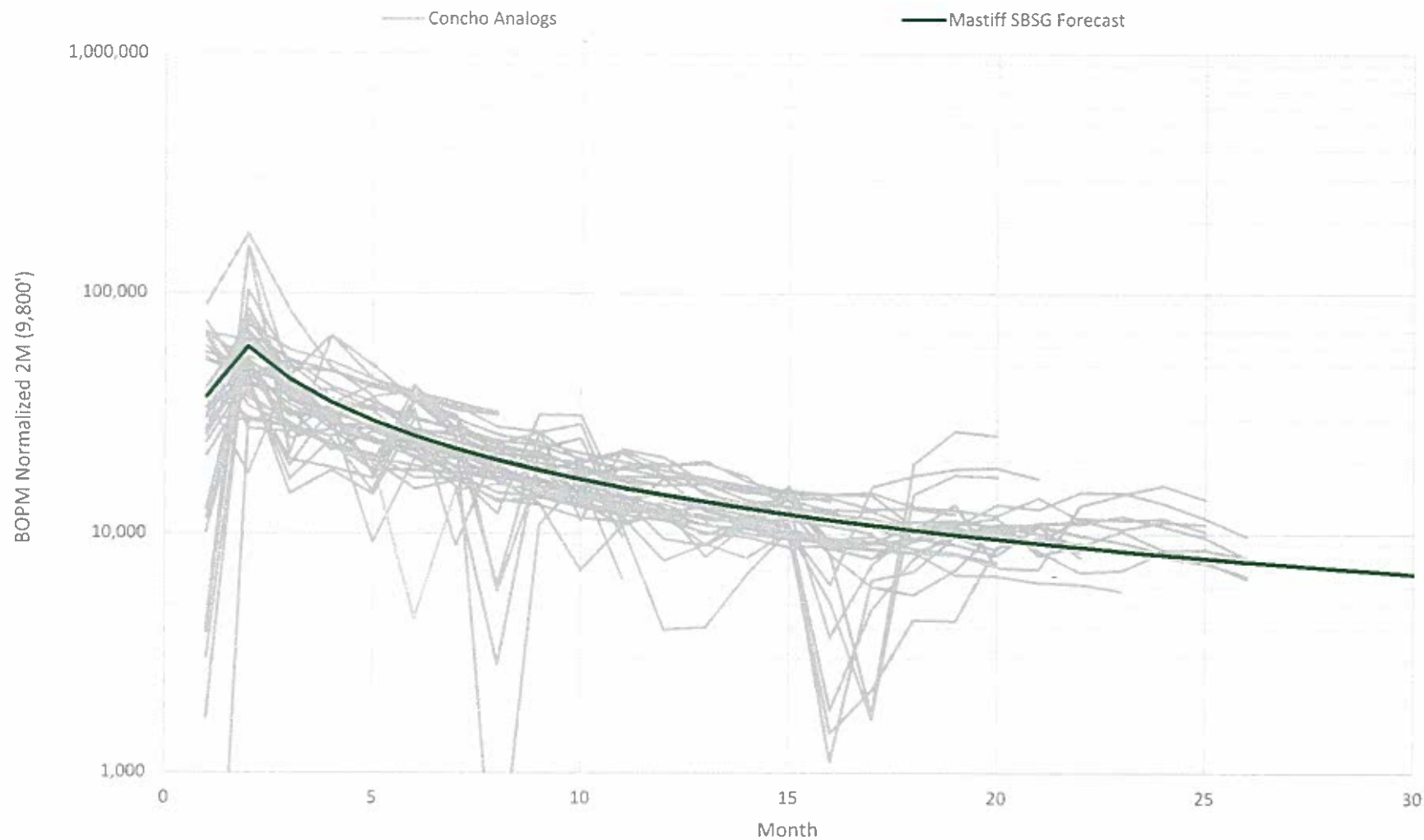
Well List

Alias	API10
GHOST RIDER 22-15 FEDERAL COM 201H	3002545645
GHOST RIDER 22-15 FEDERAL COM 202H	3002545769
GHOST RIDER 22-15 FEDERAL COM 203H	3002545770
GHOST RIDER 22-15 FEDERAL COM 205H	3002545772
GHOST RIDER 22-15 FEDERAL COM 206H	3002545773
MESA VERDE BONE SPRING UNIT 021H	3001544546
MESA VERDE BONE SPRING UNIT 021H	3001544546
MESA VERDE BONE SPRING UNIT 023H	3002544560
MESA VERDE BONE SPRING UNIT 023H	3002544560
MESA VERDE BS UNIT 004H	3002544064
MESA VERDE BS UNIT 004H	3002544064
MESA VERDE BS UNIT 005H	3002544185
MESA VERDE BS UNIT 005H	3002544185
MESA VERDE BS UNIT 006H	3002544042
MESA VERDE BS UNIT 006H	3002544042
MESA VERDE BS UNIT 007H	3002544065
MESA VERDE BS UNIT 007H	3002544065
MESA VERDE BS UNIT 008H	3002544184
MESA VERDE BS UNIT 008H	3002544184
MESA VERDE BS UNIT 009H	3002544194
MESA VERDE BS UNIT 009H	3002544194
MESA VERDE BS UNIT 010H	3002544188

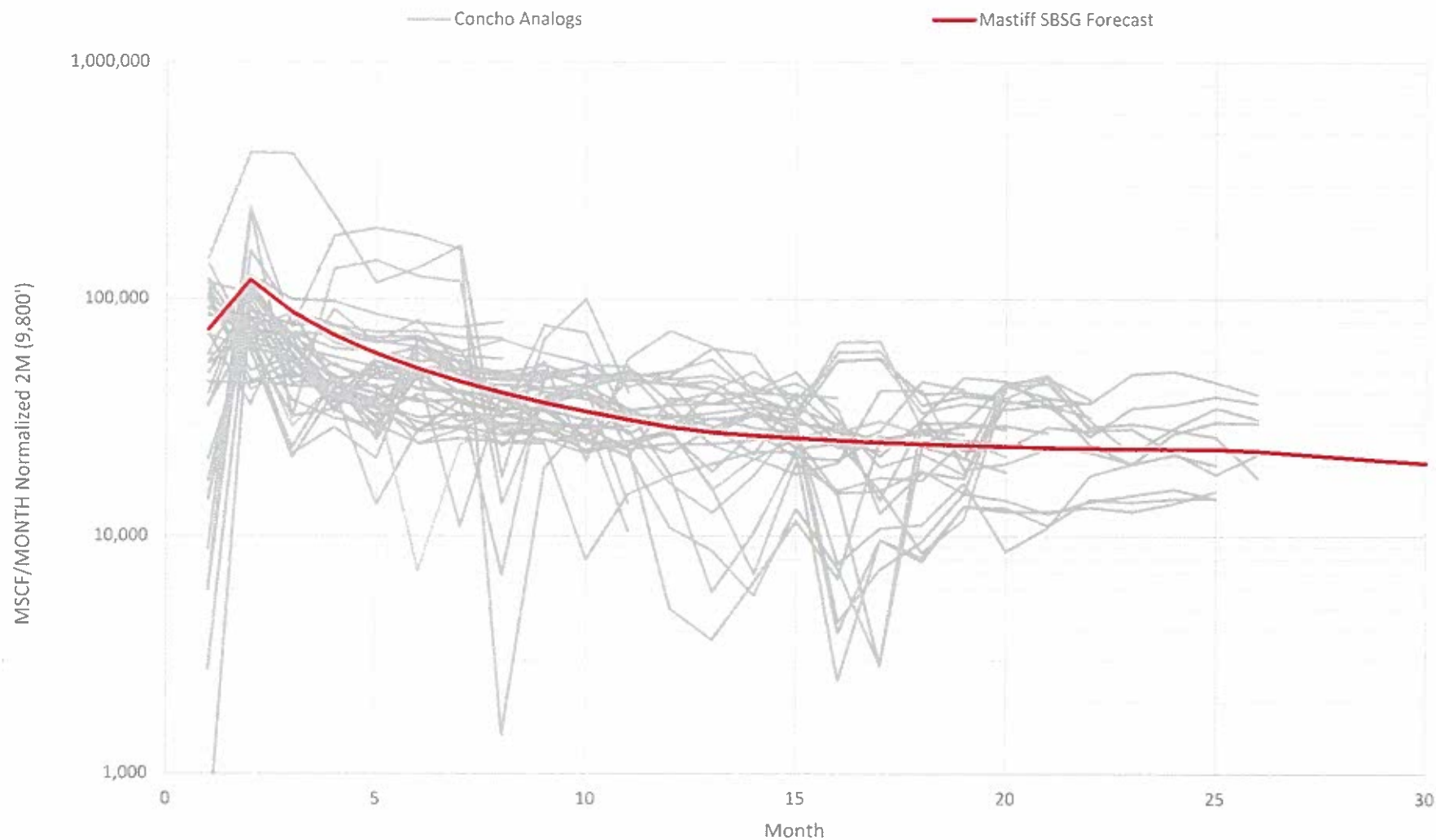
Alias	API10
MESA VERDE BS UNIT 010H	3002544188
MESA VERDE BS UNIT 016H	3001544551
MESA VERDE BS UNIT 016H	3001544551
MESA VERDE BS UNIT 017H	3001544550
MESA VERDE BS UNIT 017H	3001544550
MESA VERDE BS UNIT 018H	3001544549
MESA VERDE BS UNIT 018H	3001544549
MESA VERDE BS UNIT 019H	3001544548
MESA VERDE BS UNIT 019H	3001544548
MESA VERDE BS UNIT 020H	3001544547
MESA VERDE BS UNIT 020H	3001544547
MESA VERDE BS UNIT 022H	3002544559
MESA VERDE BS UNIT 022H	3002544559
MESA VERDE BS UNIT 024H	3002544561
MESA VERDE BS UNIT 024H	3002544561
SAVAGE 2 STATE COM 503H	3002545672
SAVAGE 2 STATE COM 505Y	3002545814
SAVAGE 2 STATE COM 506H	3002545693
SAVAGE 2 STATE COM 507H	3002545694
SAVAGE 2 STATE COM 508H	3002545695



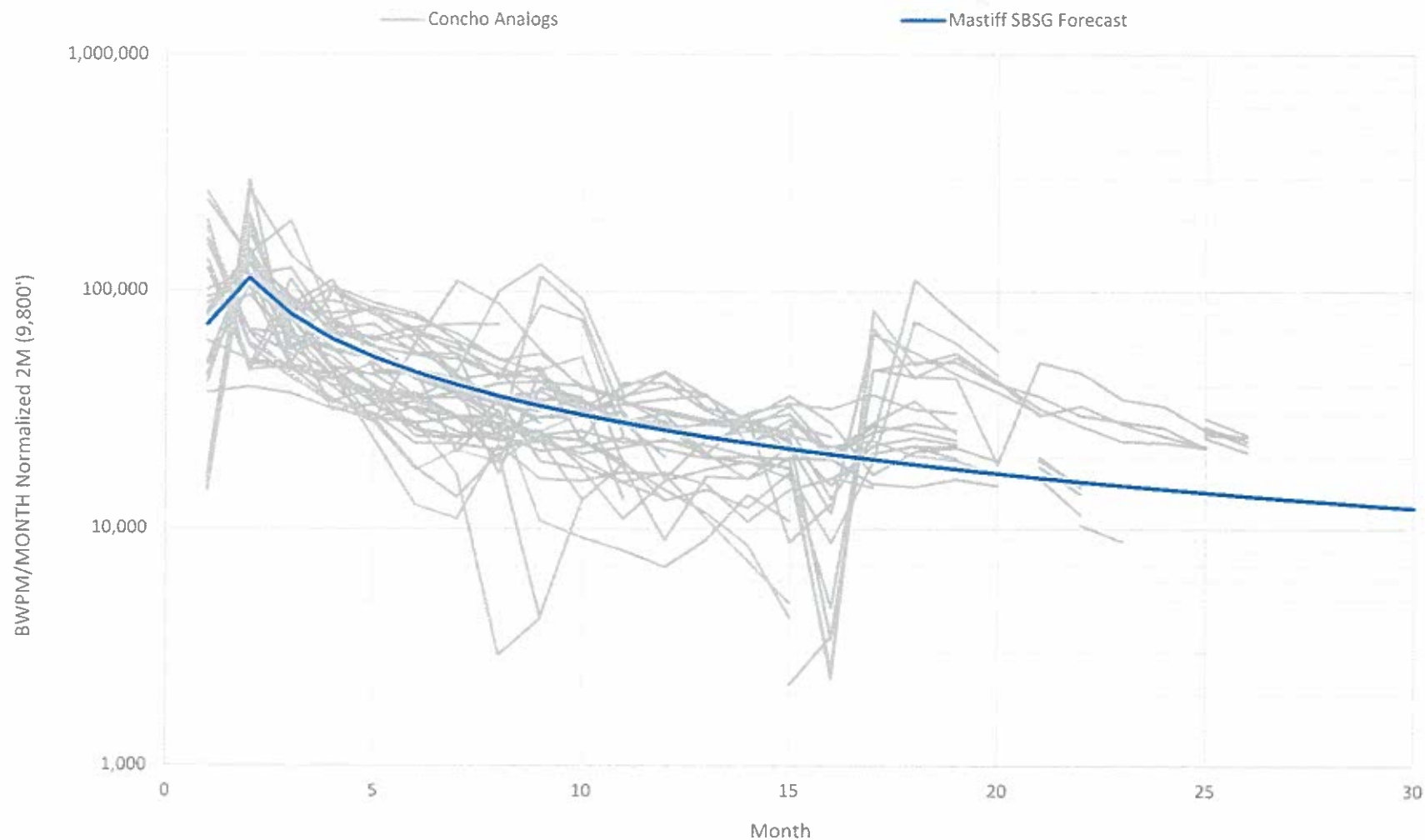
Oil Type Curve



Gas Type Curve



Water Type Curve



Economics

W/2 Section 33, T23S-R32E & Section 4, T24S-R32E

Name	WI/NRI	Number of Wells	Total Cost/Well (\$MM)	EUR (MBO/Well)	EUR (MBOE/Well)	ROR (%)	PV10/Well (\$M)	Total Project PV10 (\$MM)	Total Project EUR (MMBO)
Mastiff (CXO)	50/42.75	2	11.8	1116	1,605	78	6,198	12.4	32.1

E/2 Section 4 & 9, T24S-R32E

Name	WI/NRI	Number of Wells	Total Cost/Well (\$MM)	EUR (MBO/Well)	EUR (MBOE/Well)	ROR (%)	PV10/Well (\$M)	Total Project PV10 (\$MM)	Total Project EUR (MMBO)
Mastiff (CXO)	75/62.75	4	11.8	1,116	1,605	75	8,880	36	64.2

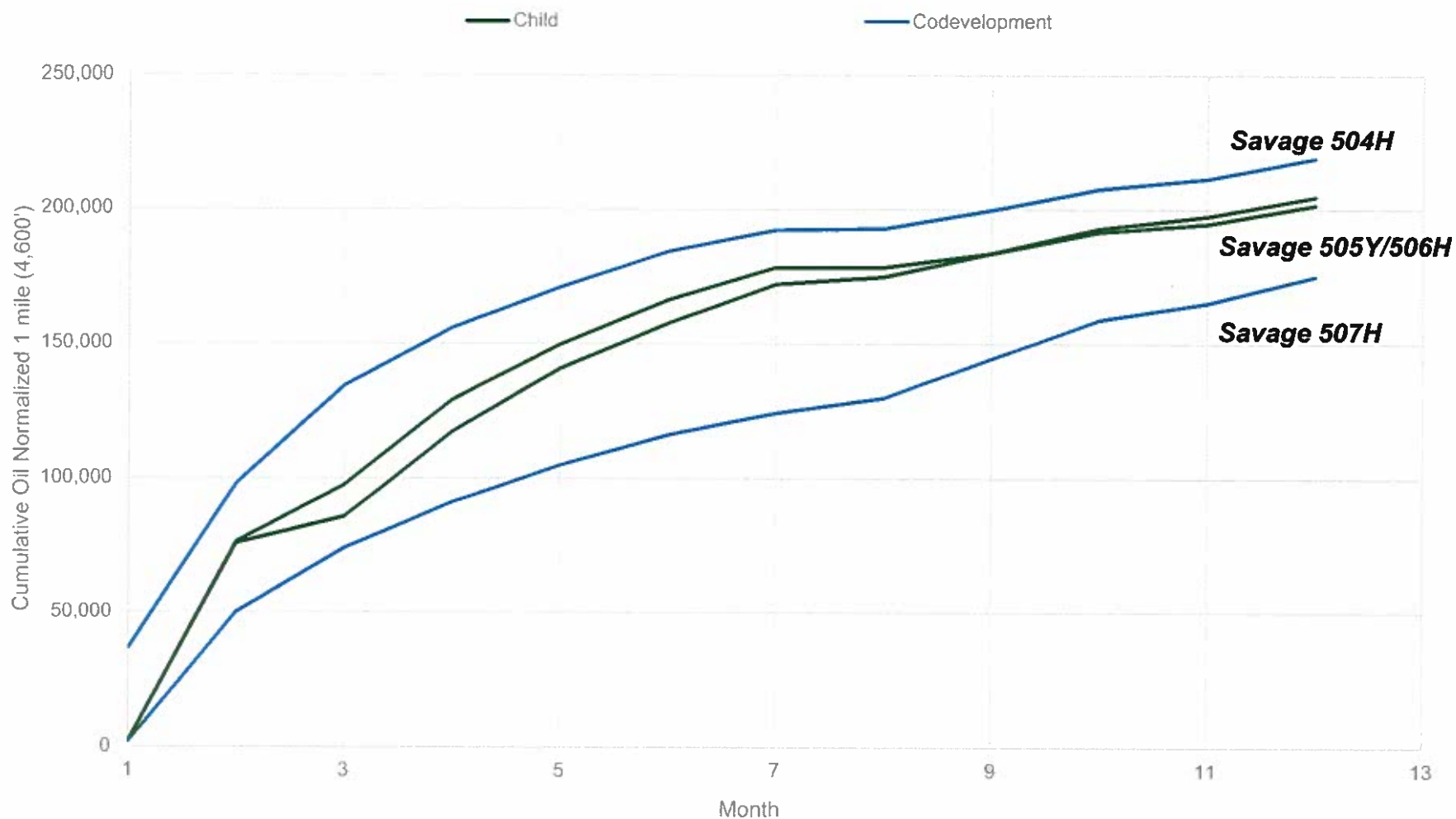


SBSG Parent-Child

Well	Operator	MOFP	Lb/ft	Gal/ft	Cumulative Fluid at time of Offset	Offsetting Well	Horizontal Offsetting Distance	Vertical Offsetting Distance	% Overlap
Mamba BQN State Com 2H	EOG	June-2014	959	679	369,437	Mamba 30 State Com 505H	750	0	100
Undaunted BSD State Com 1H	EOG	Mar-2013	723	592	478,416	Savage 2 State Com 506H	495	275	100
Taipan BST State 1H	EOG	May-2014	985	726	374,932	Tiapan 31 State 503H	865	310	100
Mastiff Federal 3H	COG	May-2016	1,407	1,347	724,191*	Mastiff Project	1000+	250	50

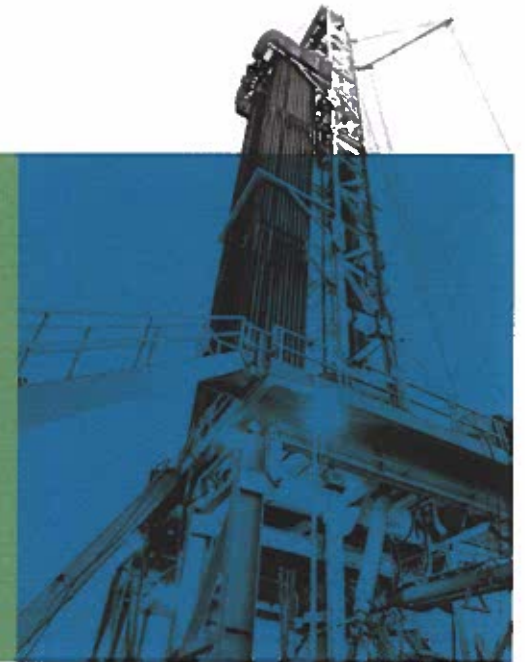


Parent-Child





MASTIFF WOLFCAMP

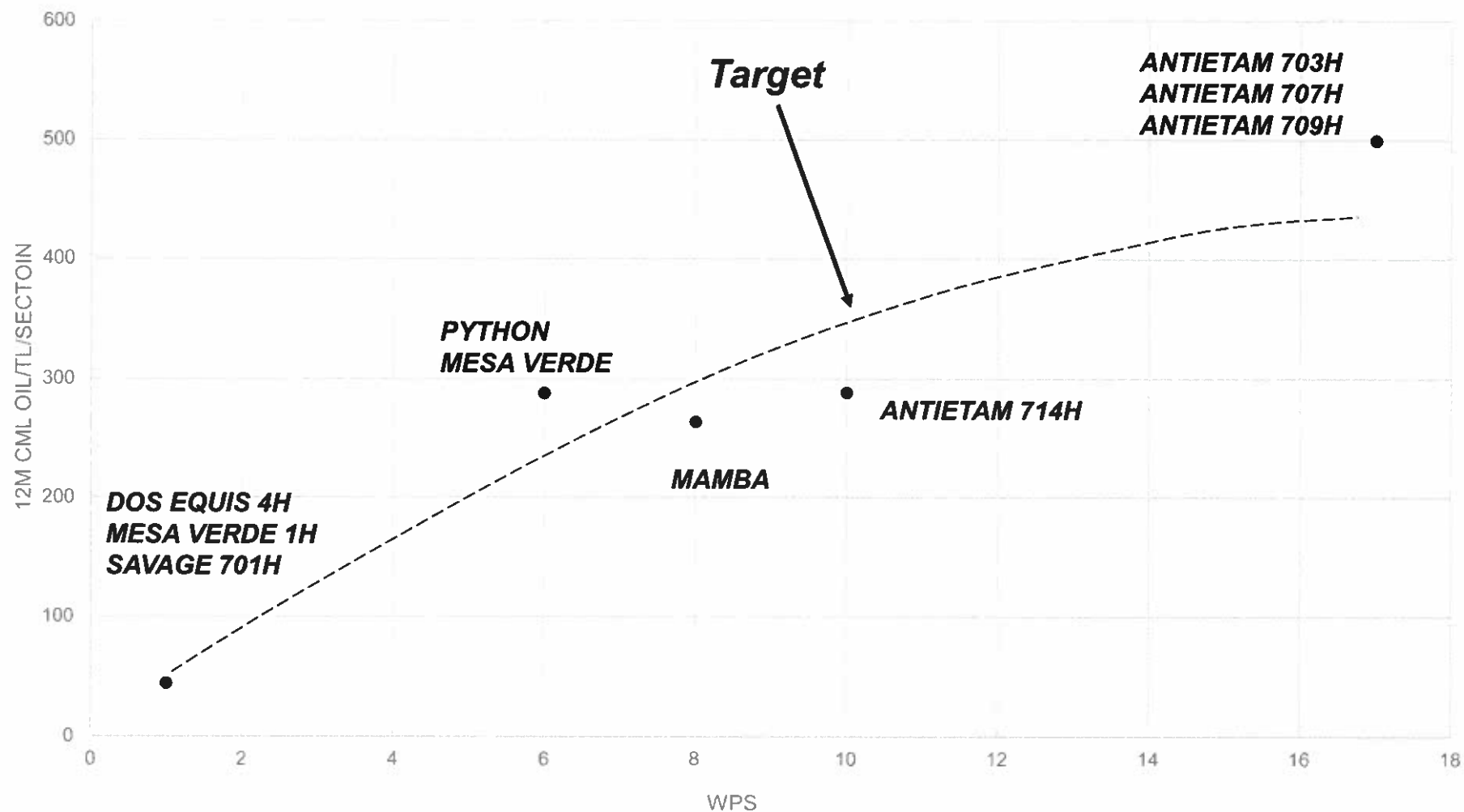


Well Criteria

Selected interior Wolfcamp A wells geologically analogous to the proposed Mastiff project with modern completions over a range of spacings.

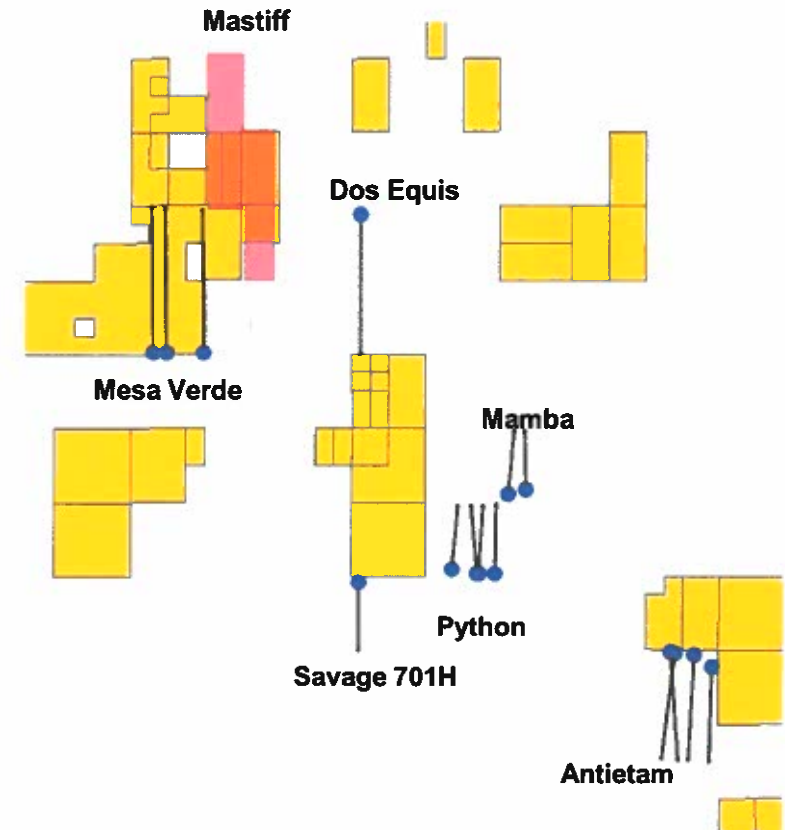
This was used to find trends in well performance and recovery to determine the optimal development plan to economically maximize recovery

Interior Wolfcamp Wells

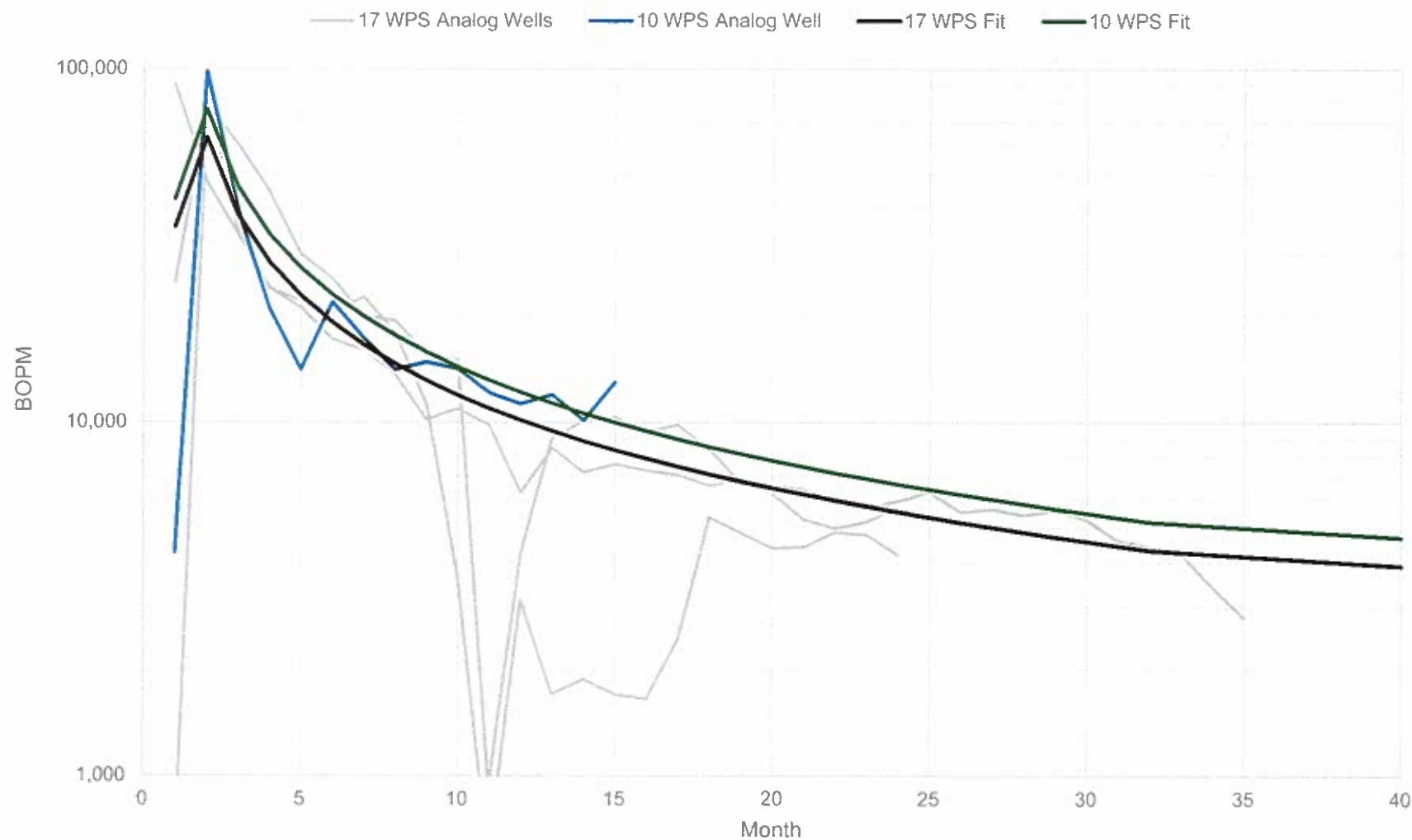


Well List

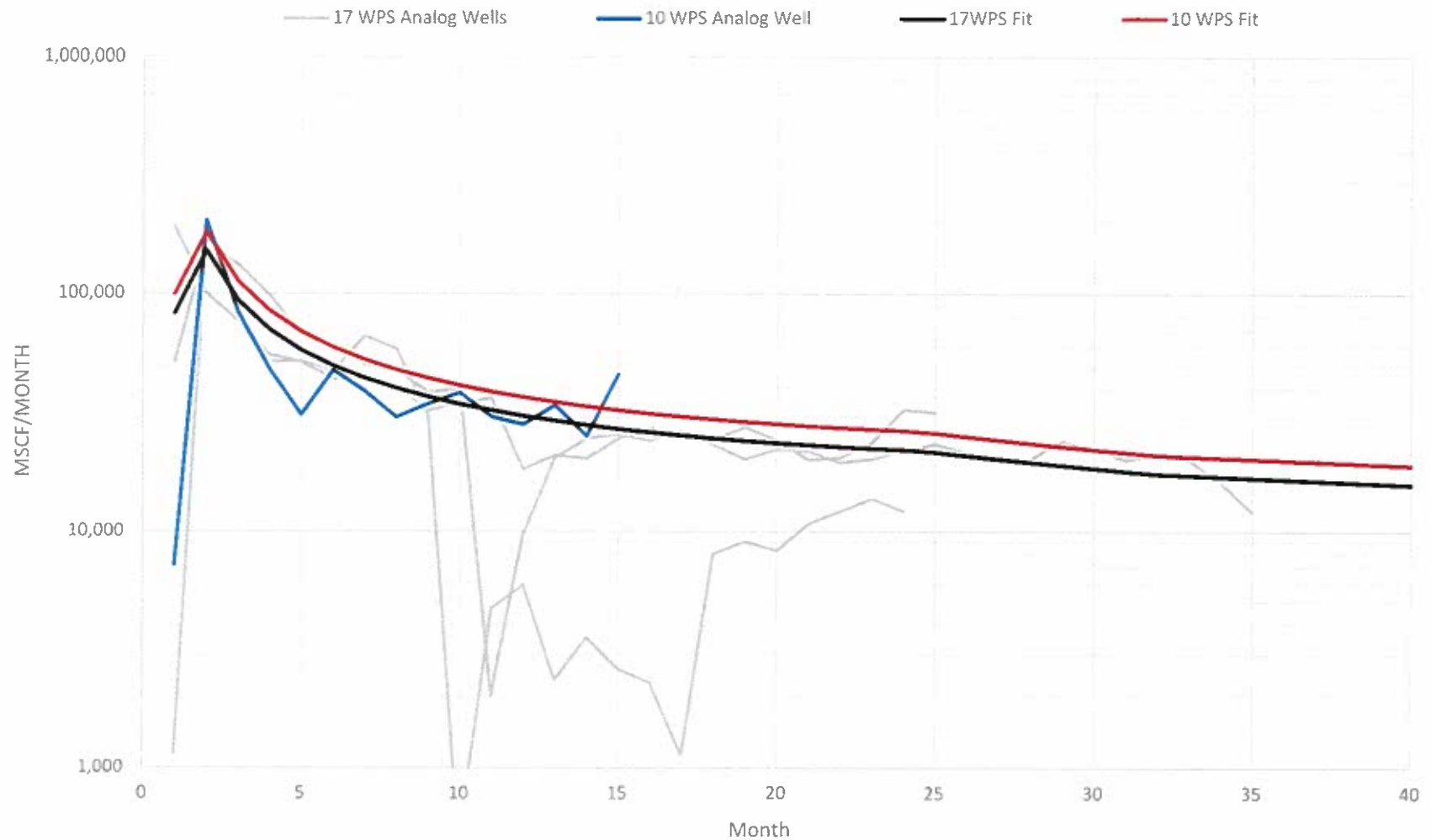
Alias	API
ANTIETAM 9 FEDERAL COM 703H	3002543479
ANTIETAM 9 FEDERAL COM 707H	3002544349
ANTIETAM 9 FEDERAL COM 709H	3002544352
ANTIETAM 9 FEDERAL COM 714H	3002545477
DOS EQUIS 11 14 FEDERAL COM 004H	3002545413
MAMBA 30 STATE COM 707H	3002545319
MAMBA 30 STATE COM 709H	3002545321
MESA VERDE WC UNIT 001H	3002544195
MESA VERDE WC UNIT 006H	3002545863
MESA VERDE WC UNIT 007H	3002545920
PYTHON 36 STATE 705H	3002545697
PYTHON 36 STATE 706H	3002545740
PYTHON 36 STATE 707H	3002545698
PYTHON 36 STATE COM 704H	3002545739
SAVAGE 2 STATE COM 701H	3002544975



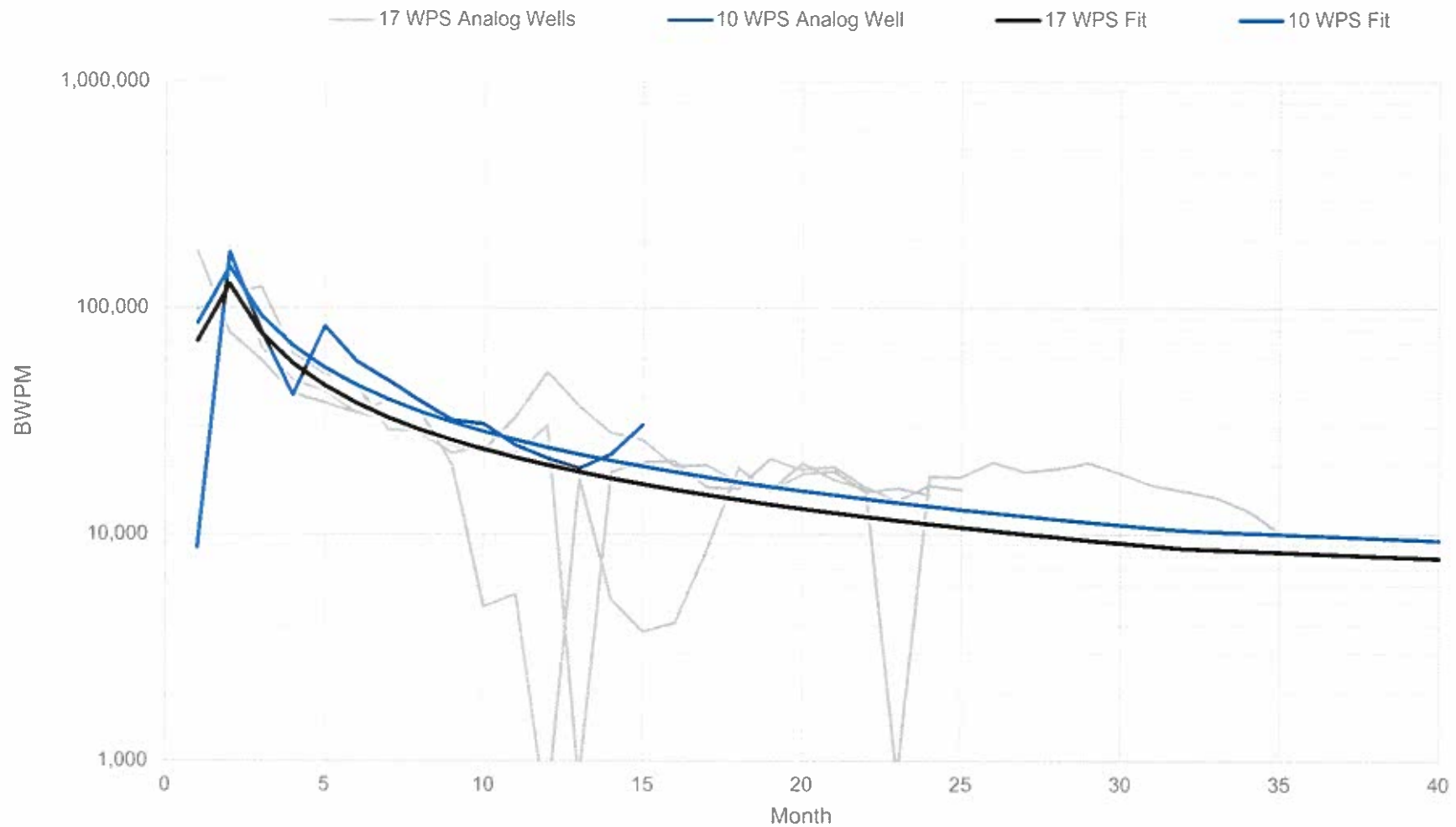
Oil Type Curve



Gas Type Curve



Water Type Curve



Economics

W/2 Section 33, T23S-R32E & Section 4, T24S-R32E

Name	WI/NRI	Number of Wells	Total Cost/Well (\$MM)	EUR (MBO/Well)	EUR (MBOE/Well)	ROR (%)	PV10/Well (\$M)	Total Project PV10 (\$MM)	Total Project EUR (MMBO)
Mastiff (CXO) 10 WPS	50/42.75	5	13.9	960	1510	50	4,265	21.3	4.8
Mastiff (CXO) 8 WPS	50/42.75	4	13.9	960	1510	50	4,265	17	3.8
								Δ	4.3
									1

E/2 Section 4 & 9, T24S-R32E

Name	WI/NRI	Number of Wells	Total Cost/Well (\$MM)	EUR (MBO/Well)	EUR (MBOE/Well)	ROR (%)	PV10/Well (\$M)	Total Project PV10 (\$MM)	Total Project EUR (MMBO)
Mastiff (CXO) 10 WPS	75/62.75	5	13.9	960	1510	47	6,010	30	4.8
Mastiff (CXO) 8 WPS	75/62.75	4	13.9	960	1510	47	6,010	24	3.8
								Δ	6
									1
								Total Δ	10.3
									2

By drilling at higher density spacing, Concho will recover an additional **2 MMBO** and **10 million PV10**



Wolfcamp A Landing

