



## COG OPERATING LLC

Fascinator Federal Com #601H, #602H, #603H, 604H

Fascinator Federal Com #701H, #702H, #703H

Fascinator Federal Com #704H, #705H, #706H

Section 30 & 31 T24S-R35E

Lea County, New Mexico



**BEFORE THE OIL CONSERVATION DIVISION  
EXAMINER HEARING JULY 26, 2018**

**Case No. 16219 & 16220**



DISTRICT I  
1435 N. French Dr., Hobbs, NM 88240  
Phone (505) 288-6181 Fax: (505) 288-0780  
DISTRICT II  
811 S. First St., Artesia, NM 88210  
Phone (505) 745-1255 Fax: (505) 745-0720  
DISTRICT III  
1000 Rio Brazos Rd., Artec, NM 87410  
Phone (505) 334-6178 Fax: (505) 334-6179  
DISTRICT IV  
1226 S. St. Francis Dr., Santa Fe, NM 87505  
Phone (505) 478-3499 Fax: (505) 478-3498

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised August 1, 2011

Submit one copy to appropriate  
District Office

OIL CONSERVATION DIVISION  
1226 South St. Francis Dr.  
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name FASCINATOR FED COM	Well Number 601H
OGHD No.	Operator Name COG OPERATING, LLC	Elevation 3346'

Surface Location

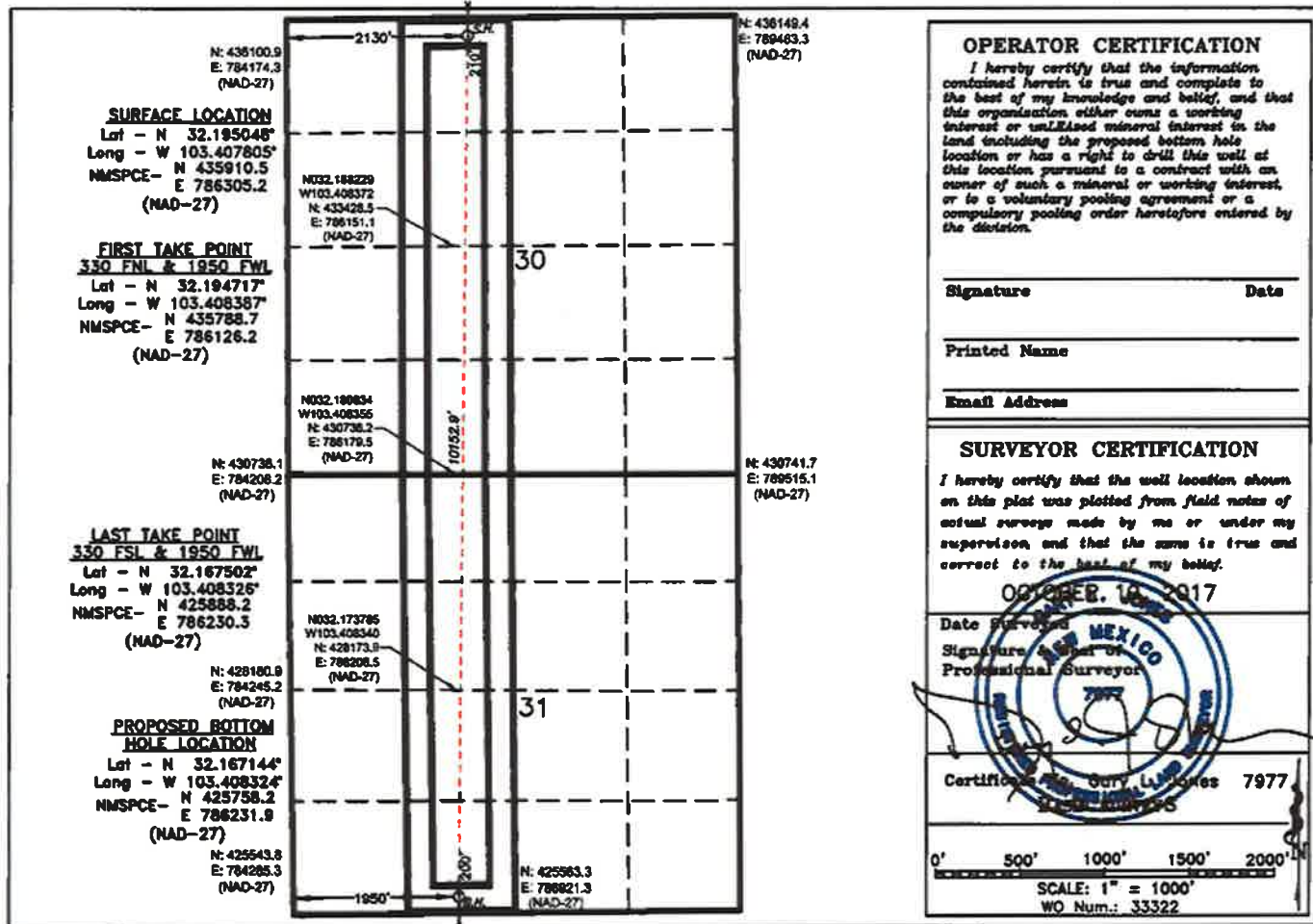
UL or lot No.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
C	30	24 S	35 E		210	NORTH	2130	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
N	31	24 S	35 E		200	SOUTH	1950	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



BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico  
Exhibit No. 1  
Submitted by: COG OPERATING LLC  
Hearing Date: July 26, 2018  
Case Nos. 16219 & 16220

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240  
Phone (575) 383-6161 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  
1226 S. St. Francis Dr., Santa Fe, NM 87505  
Phone (505) 476-3460 Fax: (505) 476-3462

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1226 South St. Francis Dr.  
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WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number		Pool Code	Pool Name
Property Code	Property Name		Well Number
	FASCINATOR FED COM		602H
OGRID No.	Operator Name		Elevation
	COG OPERATING, LLC		3359'

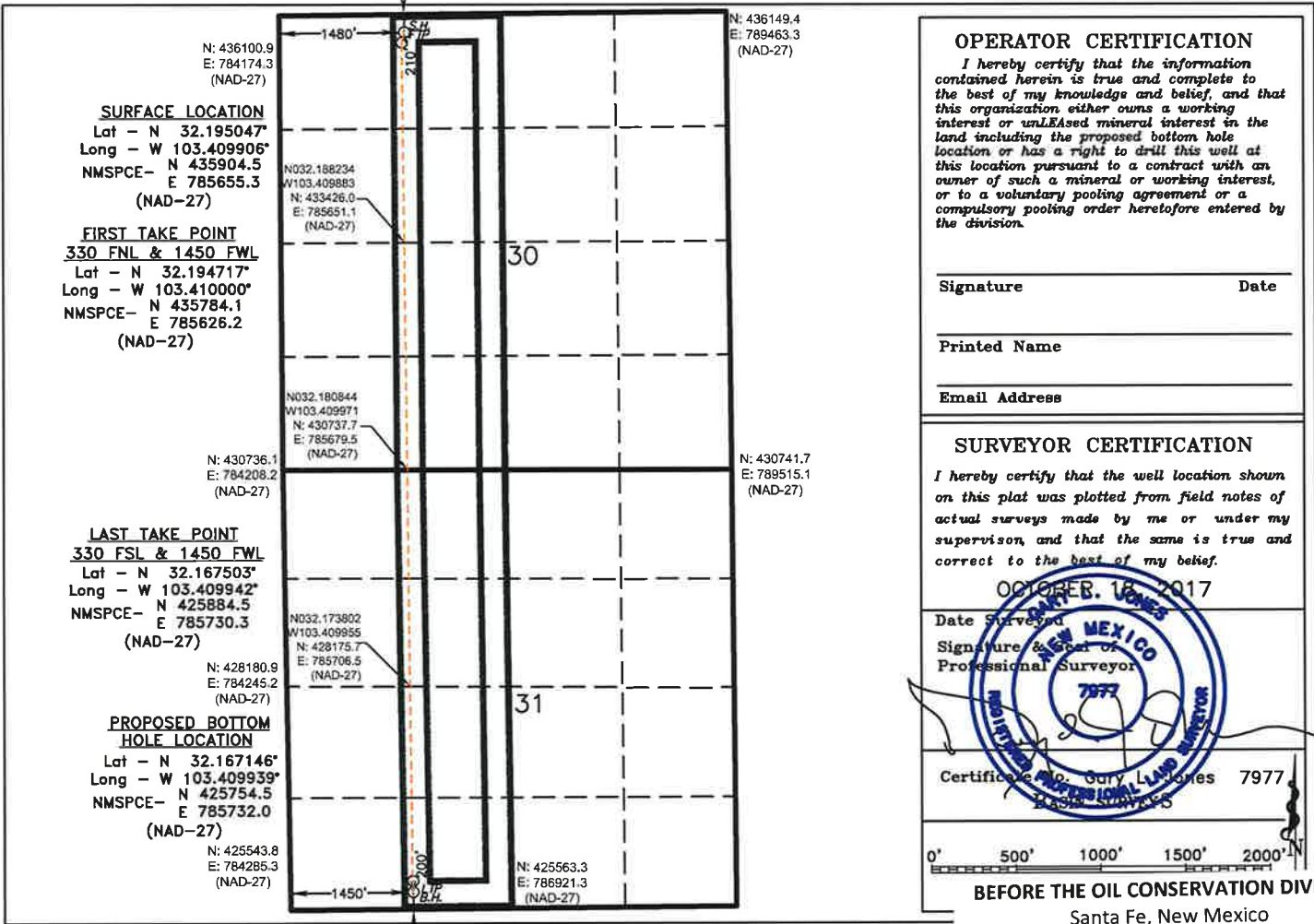
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	30	24 S	35 E		210	NORTH	1480	WEST	LEA

Bottom Hole Location If Different From Surface

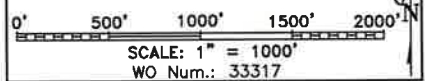
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	31	24 S	35 E		200	SOUTH	1450	WEST	LEA
Dedicated Acres		Joint or Infill	Consolidation Code	Order No.					

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**DISTRICT IV**  
1226 S. St. Francis Dr., Santa Fe, NM 87505  
Phone (505) 476-3460 Fax: (505) 476-3462



DISTRICT I  
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1226 South St. Francis Dr.  
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name FASCINATOR FED COM	Well Number 604H
OGRID No.	Operator Name COG OPERATING, LLC	Elevation 3372'

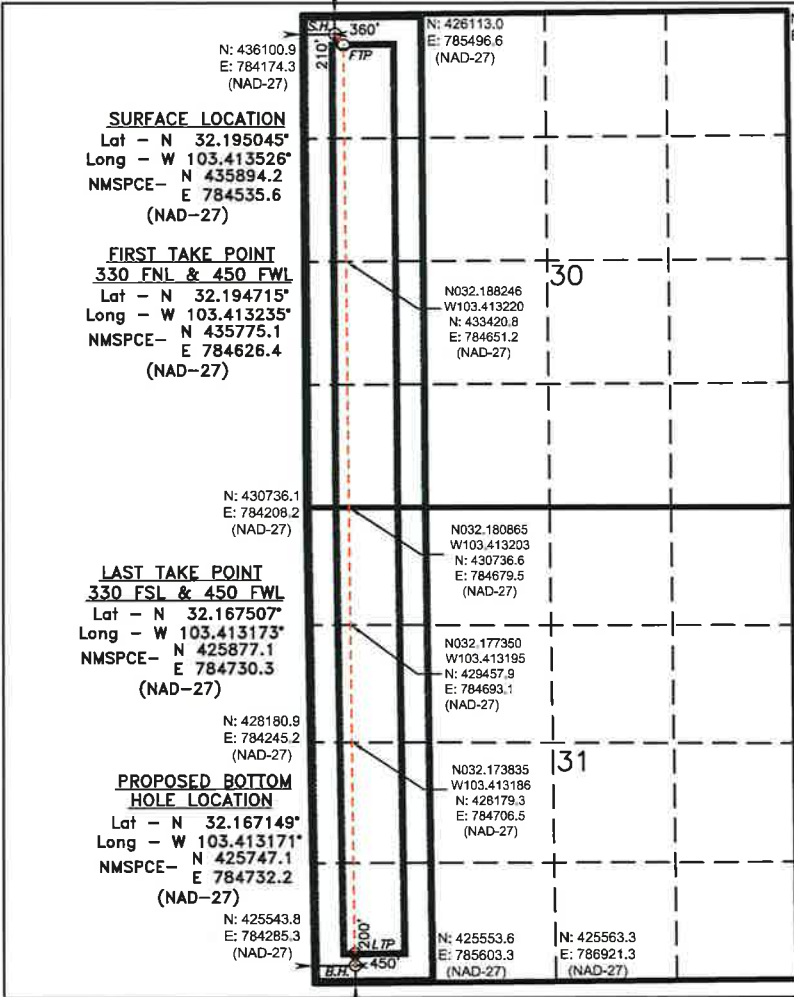
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	30	24 S	35 E		210	NORTH	360	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
M	31	24 S	35 E		200	SOUTH	450	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



BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico

Exhibit No. 4  
Submitted by: COG OPERATING LLC  
Hearing Date: July 26, 2018  
Case Nos. 16219 & 16220

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

Signature \_\_\_\_\_ Date \_\_\_\_\_  
Printed Name \_\_\_\_\_  
Email 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 16, 2017  
Date Surveyed  
Signature & Seal of Professional Surveyor  
Certificate No. Gury L. Jones 7977  
Scale: 1" = 1000'  
WO Num.: 33315

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240  
Phone (575) 383-6161 Fax: (575) 383-0720  
DISTRICT II  
811 S. First St., Artesia, NM 88210  
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DISTRICT III  
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Phone (505) 476-3480 Fax: (505) 476-3482

State of New Mexico  
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1226 South St. Francis Dr.  
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name FASCINATOR FED COM	Well Number 701H
OGRID No.	Operator Name COG OPERATING, LLC	Elevation 3345'

Surface Location

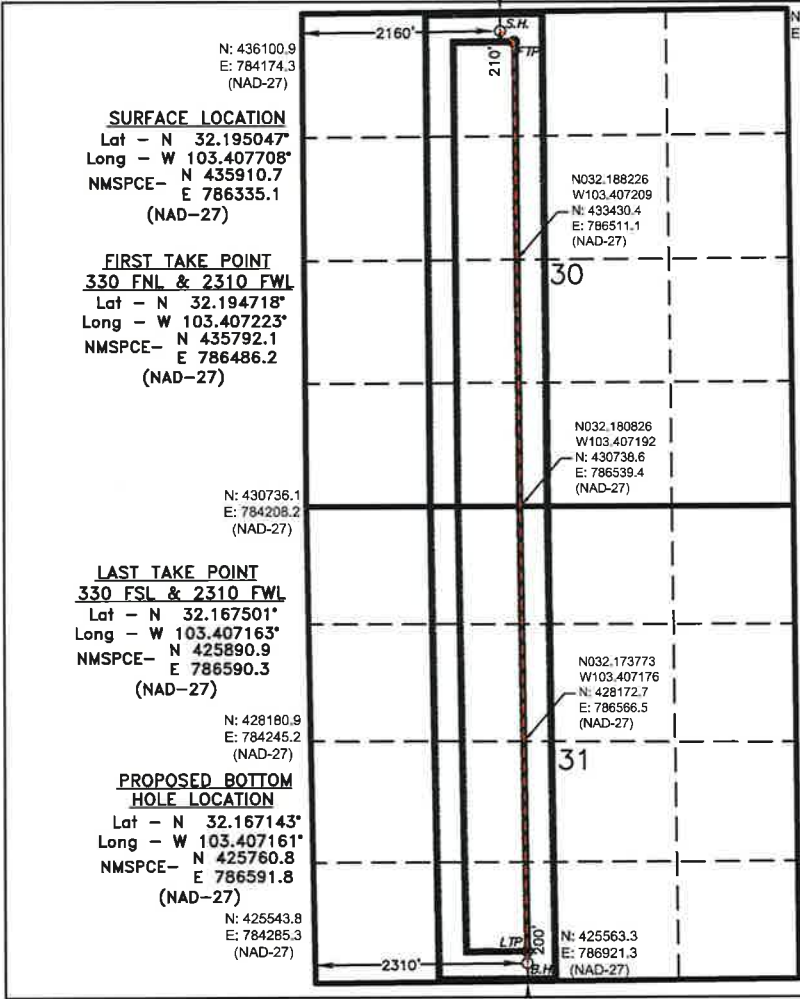
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	30	24 S	35 E		210	NORTH	2160	WEST	LEA

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
N	31	24 S	35 E		200	SOUTH	2310	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



BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico  
Exhibit No. 5  
Submitted by: COG OPERATING LLC  
Hearing Date: July 26, 2018  
Case Nos. 16219 & 16220

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

Signature \_\_\_\_\_ Date \_\_\_\_\_  
Printed Name \_\_\_\_\_  
Email 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 19, 2017  
Date Surveyed  
Signature & Seal of Professional Surveyor  
Certificate No. Gary L. Jones 7977  
Scale: 1" = 1000'  
WO Num.: 33323



DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240  
Phone (575) 393-6161 Fax: (575) 393-0720  
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DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410  
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DISTRICT IV  
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Phone (505) 478-3460 Fax: (505) 478-3462

State of New Mexico  
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1226 South St. Francis Dr.  
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number		Pool Code	Pool Name
Property Code	Property Name		Well Number
	FASCINATOR FED COM		702H
OGRID No.	Operator Name		Elevation
	COG OPERATING, LLC		3346'

Surface Location

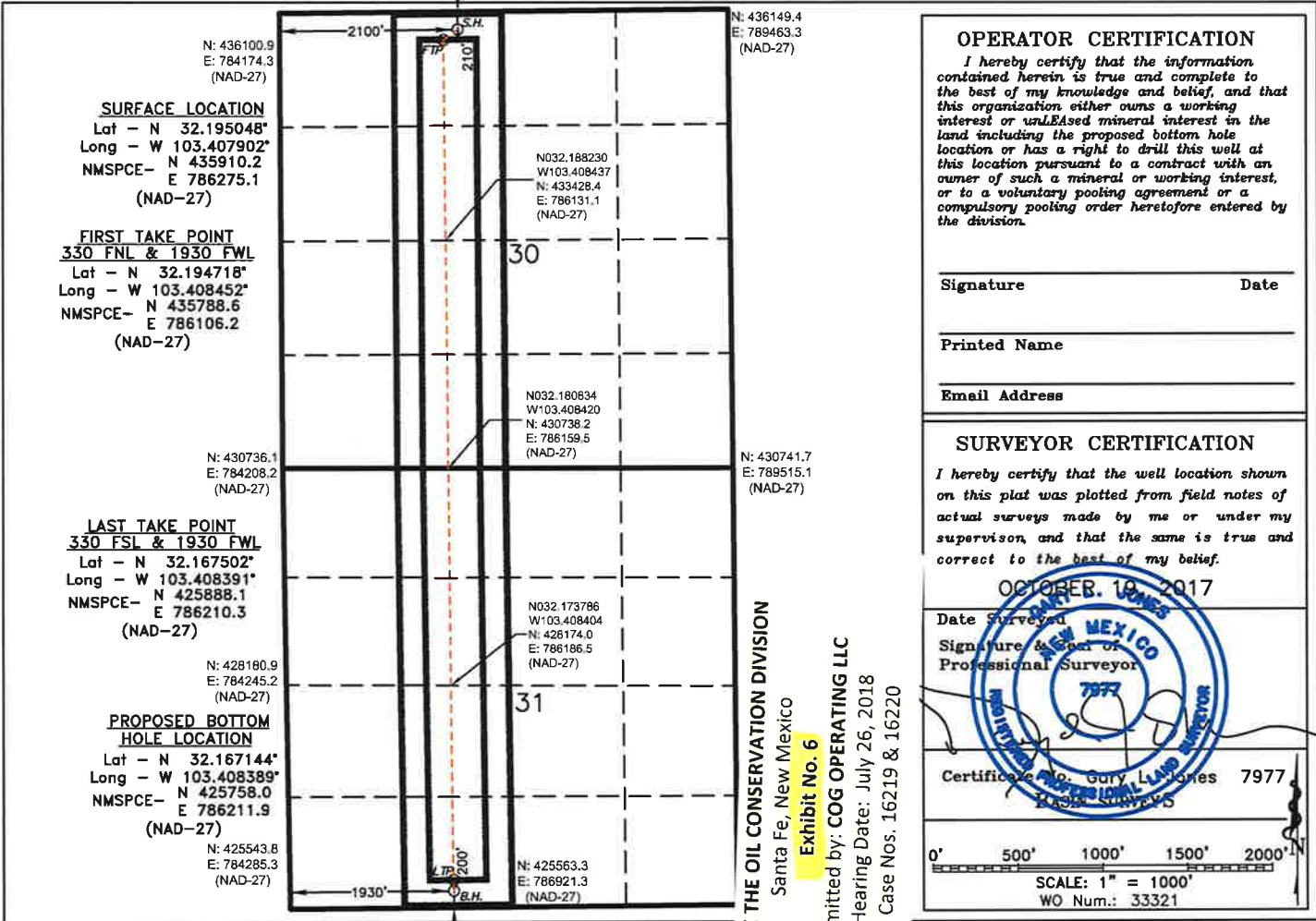
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	30	24 S	35 E		210	NORTH	2100	WEST	LEA

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
N	31	24 S	35 E		200	SOUTH	1930	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

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1226 South St. Francis Dr.  
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number		Pool Code	Pool Name
Property Code	Property Name FASCINATOR FED COM		Well Number 703H
OGRID No.	Operator Name COG OPERATING, LLC		Elevation 3358'

Surface Location

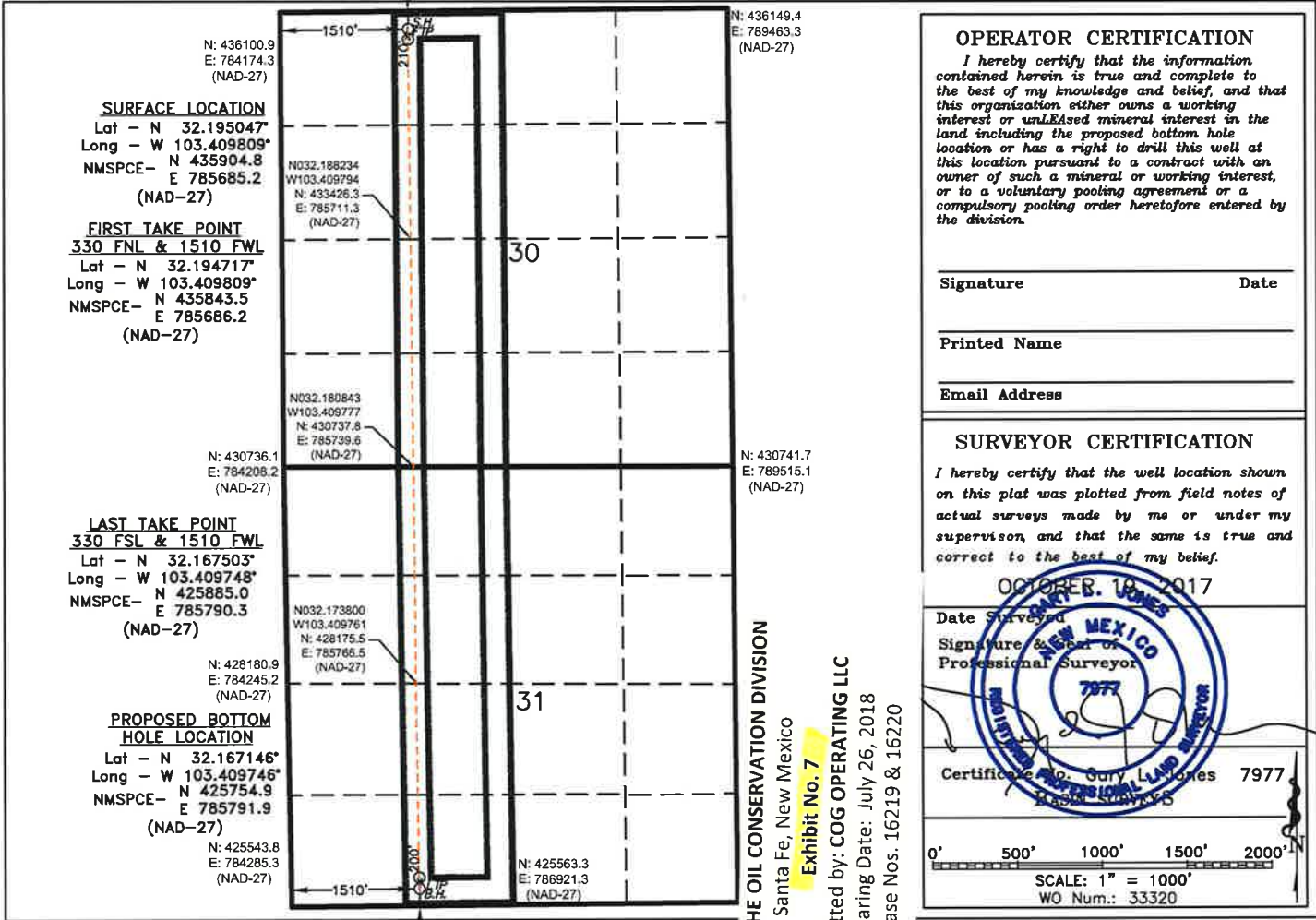
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	30	24 S	35 E		210	NORTH	1510	WEST	LEA

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
N	31	24 S	35 E		200	SOUTH	1510	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

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Phone (575) 393-6161 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) 354-6170  
DISTRICT IV  
1226 S. St. Francis Dr., Santa Fe, NM 87505  
Phone (505) 476-3400 Fax: (505) 476-3462

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Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name FASCINATOR FED COM	Well Number 704H
OGRID No.	Operator Name COG OPERATING, LLC	Elevation 3370'

Surface Location

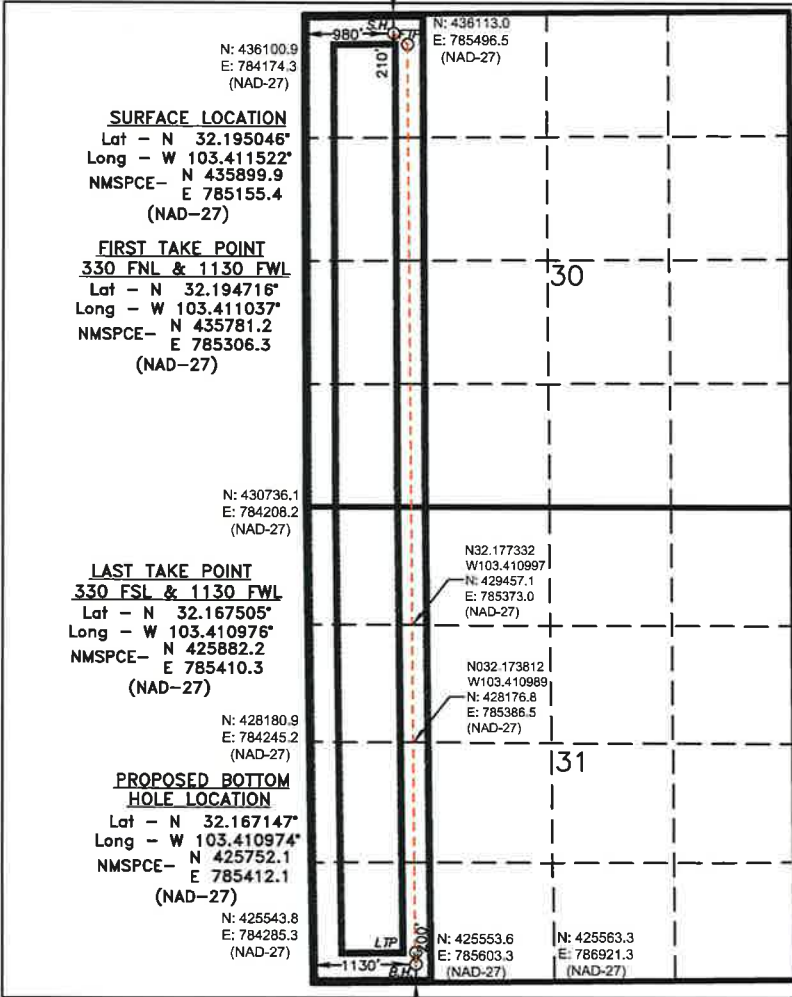
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	30	24 S	35 E		210	NORTH	980	WEST	LEA

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
M	31	24 S	35 E		200	SOUTH	1130	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

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BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico

Exhibit No. 8

Submitted by: COG OPERATING LLC

Hearing Date: July 26, 2018

Case Nos. 16219 & 16220

<b>OPERATOR CERTIFICATION</b> <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i>  Signature _____ Date _____  Printed Name _____  Email Address _____	
<b>SURVEYOR CERTIFICATION</b> <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>  OCTOBER 10 2017 Date Surveyed _____ Signature & Seal of Professional Surveyor _____  Certificate No. Gury Lland Jones 7977  0' 500' 1000' 1500' 2000' SCALE: 1" = 1000' WO Num.: 33318	

DISTRICT I  
1825 N. French Dr., Hobbs, NM 88240  
Phone (575) 393-6161 Fax: (575) 393-0720  
DISTRICT II  
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Phone (575) 748-1263 Fax: (575) 748-9720  
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DISTRICT IV  
1226 S. St. Francis Dr., Santa Fe, NM 87505  
Phone (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals and Natural Resources Department

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1226 South St. Francis Dr.  
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

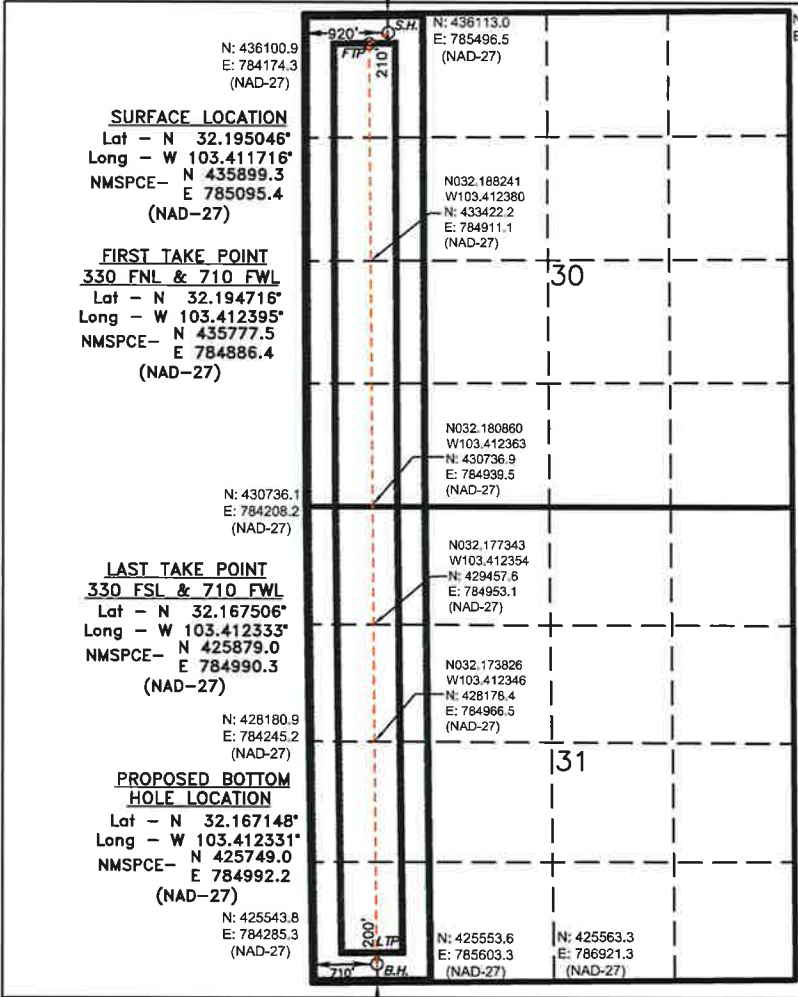
☐ AMENDED REPORT

API Number		Pool Code	Pool Name
Property Code	Property Name FASCINATOR FED COM		Well Number 705H
OGRID No.	Operator Name COG OPERATING, LLC		Elevation 3371'

Surface Location									
UL or lot No. D	Section 30	Township 24 S	Range 35 E	Lot Idn	Feet from the 210	North/South line NORTH	Feet from the 920	East/West line WEST	County LEA

Bottom Hole Location If Different From Surface									
UL or lot No. M	Section 31	Township 24 S	Range 35 E	Lot Idn	Feet from the 200	North/South line SOUTH	Feet from the 710	East/West line WEST	County LEA
Dedicated Acres		Joint or Infill	Consolidation Code		Order No.				

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BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Exhibit No. 9

Submitted by: COG OPERATING LLC

Hearing Date: July 26, 2018

Case Nos. 16219 & 16220

<b>OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  Signature _____ Date _____  Printed Name _____  Email Address _____	
<b>SURVEYOR CERTIFICATION</b> 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 16, 2017 Date Surveyed _____ Signature & Seal of Professional Surveyor _____ Certificate No. Gury L. L. Jones 7977 Professional Surveyor  0' 500' 1000' 1500' 2000' SCALE: 1" = 1000' WO Num.: 33316	

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240  
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1226 South St. Francis Dr.  
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name FASCINATOR FED COM	Well Number 706H
OGRID No.	Operator Name COG OPERATING, LLC	Elevation 3372'

Surface Location

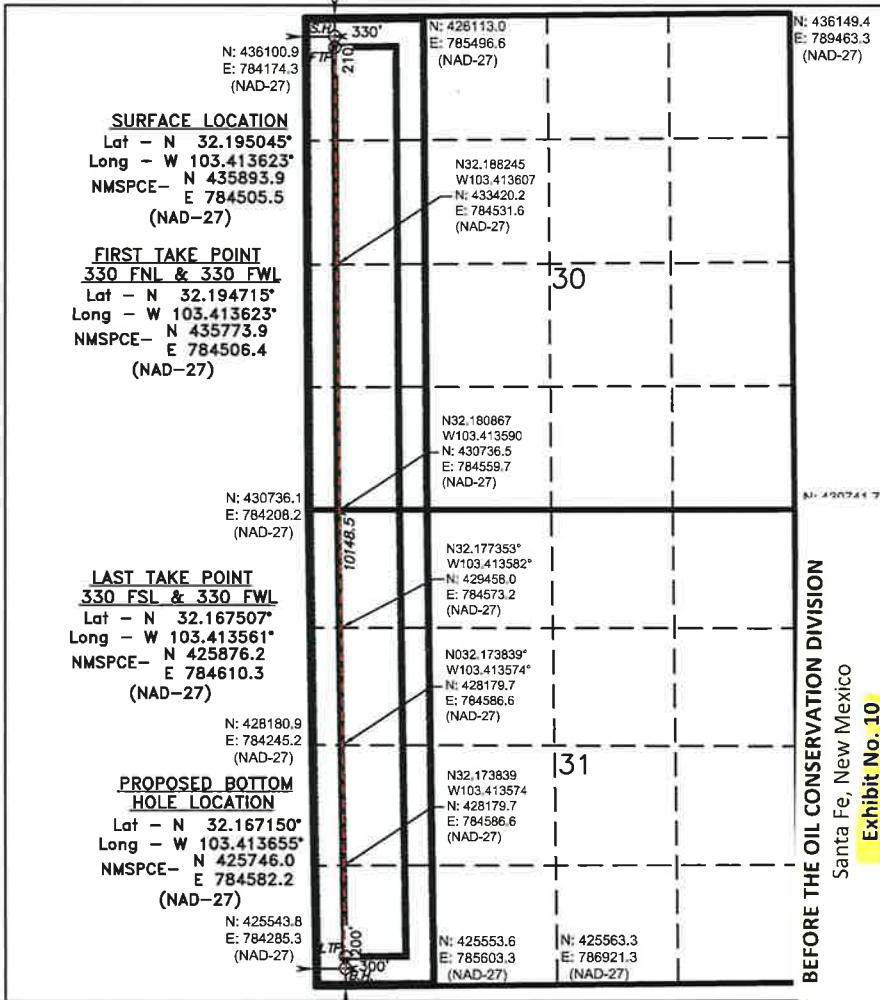
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	30	24 S	35 E		210	NORTH	330	WEST	LEA

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
M	31	24 S	35 E		200	SOUTH	330	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
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**OPERATOR CERTIFICATION**  
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Signature \_\_\_\_\_ Date \_\_\_\_\_

Printed Name \_\_\_\_\_

Email 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 16 2017

Date Surveyed \_\_\_\_\_

Signature & Seal of Professional Surveyor \_\_\_\_\_

Certificate No. GARY L. JONES 7977

SCALE: 1" = 1000'

WO Num.: 33314



Fascinator Federal Com 602H, 703H, 702H, 601H, 701H  
T24S-R35E-Section 30, E/2W/2  
T24S-R35E-Section 31, E/2W/2  
Lea County, NM

30	<b>TRACT 1</b> E/2NW/4 80 AC.	
	<b>TRACT 2</b> E/2SW/4 80 AC.	
31	<b>TRACT 3</b> E/2NW/4 80 AC.	
	<b>TRACT 4</b> NE/4SW/4 40 AC.	
	<b>TRACT 5</b> SE/4SW/4 40 AC.	

**BEFORE THE OIL CONSERVATION DIVISION**  
Santa Fe, New Mexico  
**Exhibit No. 11**  
Submitted by: **COG OPERATING LLC**  
Hearing Date: July 26, 2018  
Case Nos. 16219 & 16220

**Tract 1: E/2NW/4 Section 30-T24S-R35E (80 ACRES)**

<u>COG Operating LLC</u>	100.000000%
Total	100.000000%

**Tract 2: E/2SW/4 Section 30- T24S-R35E (80 ACRES)**

COG Production LLC	52.500000%
Marathon Oil Permian LLC	34.125000%
Energex, LLC	0.875000%
<u>Chevron U.S.A. Inc.</u>	12.500000%
Total	100.000000%

**Tract 3: E/2NW/4 Section 31- T24S-R35E (80 ACRES)**

Advance Energy Partners, LLC	28.445890%
<u>Oxy USA Inc.</u>	71.554110%
Total	100.000000%

**Tract 4: NE/4SW/4 Section 31- T24S-R35E (40 ACRES)**

COG Operating LLC	8.750000%
BEXP I, LP	8.750000%
Energen Resources Corporation	1.562500%
MRC Permian Company	8.750000%
Burlington Resources Oil & Gas Company, LP	50.000000%
Katherine Woltz Aven	1.562500%
Chisos Minerals, LLC	1.562500%
Tilden Capital Minerals, LLC	0.187500%
GGM Exploration, Inc.	0.275000%
TD Minerals LLC	1.100000%
The Estate of L.W. Kirby, deceased	8.750000%
<u>The Estate of Barney L. Alsobrook, deceased</u>	8.750000%
Total	100.000000%

**Tract 5: SE/4SW/4 Section 31- T24S-R35E (40 ACRES)**

COG Operating LLC	3.840000%
COG Acreage LP	39.982222%
COG Production LLC	2.666667%
Marathon Oil Permian LLC	8.000000%
Energen Resources Corporation	37.866667%
Jetstream New Mexico MFTC, LLC	6.400000%
Charlotte Garza	0.533333%
<u>The Estate of Bob Mason, dec.</u>	0.711111%
Total	100.000000%

UNIT RECAPITULATION  
T24S-R35E-Section 30, E/2W/2  
T24S-R35E-Section 31, E/2W/2  
Lea County, NM

COG Operating LLC	26.573750%
COG Production LLC	13.458333%
COG Acreage LP	4.997778%
<b>Marathon Oil Permian LLC</b>	<b>9.531250%</b>
<b>Advance Energy Partners</b>	<b>7.111473%</b>
<b>Oxy USA Inc.</b>	<b>17.888528%</b>
<b>Energen Resources Corporation</b>	<b>4.928646%</b>
<b>Jetstream New Mexico MFTC, LLC</b>	<b>0.800000%</b>
<b>BEXP I, LP</b>	<b>1.093750%</b>
<b>MRC Permian Company</b>	<b>1.093750%</b>
Energex, LLC	0.218750%
<b>Chevron U.S.A. Inc.</b>	<b>3.125000%</b>
<b>Burlington Resources Oil &amp; Gas Company, LP</b>	<b>6.250000%</b>
Katherine Woltz Aven	0.195313%
Chisos Minerals, LLC	0.195313%
Tilden Capital Minerals, LLC	0.023438%
GGM Exploration, Inc.	0.034375%
TD Minerals LLC	0.137500%
<b>Charlotte Garza</b>	<b>0.066667%</b>
<b>The Estate of L.W. Kirby, deceased</b>	<b>1.093750%</b>
<b>The Estate of Barney L. Alsobrook, deceased</b>	<b>1.093750%</b>
<b><u>The Estate of Bob Mason, dec.</u></b>	<b><u>0.088889%</u></b>
Total:	100.000000%

**Interest seeking to Compulsory Pool**



Fascinator Federal Com 706H, 604H, 705H, 603H, 704H  
T24S-R35E-Section 30, Lots 1-4  
T24S-R35E-Section 31, Lots 1-4  
Lea County, NM

<b>TRACT 1</b> Lots 1, 2 80.54 AC.	
<b>TRACT 2</b> Lots 3, 4 80.58 AC.	
<b>TRACT 3</b> Lot 1 40.31 AC.	30 31
<b>TRACT 4</b> Lots 2, 4 40.73 AC.	
<b>TRACT 5</b> Lot 3 40.36 AC.	
<b>TRACT 4</b> Lots 2, 4 40.73 AC.	

BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico  
**Exhibit No. 12**  
Submitted by: **COG OPERATING LLC**  
Hearing Date: July 26, 2018  
Case Nos. 16219 & 16220

**Tract 1: Lots 1, 2 Section 30-T24S-R35E (80.54 ACRES)**

<u>COG Operating LLC</u>	100.000000%
Total	100.000000%

**Tract 2: Lots 3, 4 Section 30- T24S-R35E (80.58 ACRES)**

COG Production LLC	52.500000%
Marathon Oil Permian LLC	34.125000%
Energex, LLC	0.875000%
<u>Chevron U.S.A. Inc.</u>	12.500000%
Total	100.000000%

**Tract 3: Lot 1 Section 31- T24S-R35E (40.31 ACRES)**

Advance Energy Partners, LLC	28.445890%
<u>Oxy USA Inc.</u>	71.554110%
Total	100.000000%

**Tract 4: Lots 2, 4 Section 31- T24S-R35E (80.73 ACRES)**

<u>COG Operating LLC</u>	100.000000%
Total	100.000000%

**Tract 5: Lot 3 Section 31- T24S-R35E (40.36 ACRES)**

COG Operating LLC	8.750000%
BEXP I, LP	8.750000%
Energen Resources Corporation	1.562500%
MRC Permian Company	8.750000%
Burlington Resources Oil & Gas Company, LP	50.000000%
Katherine Woltz Aven	1.562500%
Chisos Minerals, LLC	1.562500%
Tilden Capital Minerals, LLC	0.187500%
GGM Exploration, Inc.	0.275000%
TD Minerals LLC	1.100000%
The Estate of L.W. Kirby, deceased	8.750000%
<u>The Estate of Barney L. Alsobrook, deceased</u>	8.750000%
Total	100.000000%

UNIT RECAPITULATION  
T24S-R35E-Section 30, Lots 1-4  
T24S-R35E-Section 31, Lots 1-4  
Lea County, NM

COG Operating LLC	51.098071%
COG Production LLC	13.116861%
<b>Marathon Oil Permian LLC</b>	<b>8.525960%</b>
<b>Oxy USA Inc.</b>	<b>8.943154%</b>
<b>Advance Energy Partners, LLC</b>	<b>3.555295%</b>
<b>BEXP I, LP</b>	<b>1.094971%</b>
<b>Energen Resources Corporation</b>	<b>0.195531%</b>
Energex, LLC	0.218614%
<b>MRC Permian Company</b>	<b>1.094971%</b>
<b>Chevron U.S.A. Inc.</b>	<b>3.123062%</b>
<b>Burlington Resources Oil &amp; Gas Company, LP</b>	<b>6.256976%</b>
Katherine Woltz Aven	0.195531%
Chisos Minerals, LLC	0.195531%
Tilden Capital Minerals, LLC	0.023464%
GGM Exploration, Inc.	0.034413%
TD Minerals LLC	0.137653%
<b>The Estate of L.W. Kirby, deceased</b>	<b>1.094971%</b>
<b><u>The Estate of Barney L. Alsobrook, deceased</u></b>	<b><u>1.094971%</u></b>
Total:	100.000000%

**Interest seeking to Compulsory Pool**



April 13, 2018

US Certified Mail No. 91 7199 9991 7038 1571 5342

Marathon Oil Permian LLC  
5555 San Felipe St.  
Houston, Texas 77056

**Re: Well Proposal – Fascinator Federal Com 601H**  
Sec 30: E/2W/2 - T24S-R35E  
Sec 31: E/2W/2 - T24S-R35E  
SHL: 210' FNL/ 2130' FWL, or a legal location in Sec 30 (Unit C)  
BHL: 200' FSL/ 1950' FWL, or a legal location in Sec 31 (Unit N)  
Lea County, New Mexico

Dear Sir/Madam:

COG Operating LLC ("COG"), as Operator, hereby proposes to drill the Fascinator Federal Com 601H 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 12,612' and a MD of approximately 22,400' to test the Wolfbone Pool ("Operation"). The total cost of the Operation is estimated to be \$12,915,065, 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 covers Sec 30: E/2W/2 - T24S-R35E and Sec 31: E/2W/2 - T24S-R35E. 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 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 proposes to acquire your interest via term assignment. It has the following general provisions:

- 3 year primary term
- Delivering a 75% NRI, proportionately reduced
- \$2,000 per net acre bonus consideration

The Term Assignment offer expires 5 p.m., Central Time, June 13, 2018, and it 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 DIVISION**  
Santa Fe, New Mexico  
**Exhibit No. 13**  
Submitted by: **COG OPERATING LLC**  
Hearing Date: July 26, 2018  
Case Nos. 16219 & 16220

If you have any questions, please contact the undersigned at (432) 685-2588 Mflanagan@concho.com.

Respectfully,

*Megan L. Tipton*

Megan Tipton  
Landman

\_\_\_\_\_ I/We hereby elect to participate in the Fascinator Federal Com 601H.

\_\_\_\_\_ I/We hereby elect not to participate in the Fascinator Federal Com 601H.

Company: \_\_\_\_\_

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

April 13, 2018

US Certified Mail No.91 7199 9991 7038 1571 5465

Chevron U. S. A. Inc.  
1400 Smith Street  
Houston, TX 77002

**Re: Well Proposal – Fascinator Federal Com 601H**  
Sec 30: E/2W/2 - T24S-R35E  
Sec 31: E/2W/2 - T24S-R35E  
SHL: 210' FNL/ 2130' FWL, or a legal location in Sec 30 (Unit C)  
BHL: 200' FSL/ 1950' FWL, or a legal location in Sec 31 (Unit N)  
Lea County, New Mexico

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COG Operating LLC ("COG"), as Operator, hereby proposes to drill the Fascinator Federal Com 601H 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 12,612' and a MD of approximately 22,400' to test the Wolfbone Pool ("Operation"). The total cost of the Operation is estimated to be \$12,915,065, and a detailed description of the cost is set out in the enclosed Authority for Expenditure ("AFE").

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- \$7,000/\$700 Drilling and Producing Rate
- COG Operating LLC named as Operator

Please indicate your 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 lease your minerals under the following general terms:

- Bonus of \$2,000 /Net Mineral Acre
- 3 Year Primary Term
- 25% Royalty Interest

The Lease 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.



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Respectfully,

*Megan L. Tipton*

Megan Tipton  
Landman

\_\_\_\_\_ I/We hereby elect to participate in the Fascinator Federal Com 601H.

\_\_\_\_\_ I/We hereby elect not to participate in the Fascinator Federal Com 601H.

Company: \_\_\_\_\_

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**COG OPERATING LLC  
AUTHORITY FOR EXPENDITURE  
DRILLING**

**WELL NAME: FASCINATOR FED COM 601H**

SHL: 210 FNL &amp; 2130 FWL

BHL:	200 FSL & 1950 FWL
------	--------------------

FORMATION: WOLFBONE POOL

LEGAL: SEC 30-31 T24S-R35E

PROSPECT NAME: BULLDOG 717008

STATE &amp; COUNTY: New Mexico, Lea

OBJECTIVE: DRILL AND COMPLETE

DEPTH: 22,400

TVD:	12,612
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		Drlg - Rig		Tank Btty		Pmpg	
INTANGIBLE COSTS		Release(D)	Completion(C)	Constrctn(TB)	Equipment(PEQ)	TOTAL	
Title/Curative/Permit	201	11,000					11,000
Insurance	202	4,000	302				4,000
Damages/Right of Way	203	5,000	303	351			5,000
Survey/Stake Location	204	6,000		352			6,000
Location/Pits/Road Expense	205	120,000	305	10,000	353	31,000	161,000
Drilling / Completion Overhead	206	11,100	306				11,100
Turnkey Contract	207	0	307	1,397,000			1,397,000
Footage Contract	208	0	308	781,000			781,000
Daywork Contract	209	820,000	309	1,177,000			1,997,000
Directional Drilling Services	210	398,000	310	150,000			548,000
Fuel & Power	211	211,000	311	5,000	354	367	216,000
Water	212	60,000	312	855,000		368	915,000
Bits	213	133,200	313	4,500		369	137,700
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 (Kickoff Plug)	220	0				371	0
Float Equipment & Centralizers	221	45,000					45,000
Casing Crews & Equipment	222	60,000					60,000
Fishing Tools & Service	223	0	323			372	0
Geologic/Engineering	224	0	324	355		373	0
Contract Labor	225	5,500	325	8,200	356	72,000	92,200
Company Supervision	226	66,600	326	15,000	357		81,600
Contract Supervision	227	124,000	327	204,000	358		333,000
Testing Casing/Tubing	228	20,000	328	10,000		377	30,000
Mud Logging Unit	229	52,000	329				52,000
Logging	230	0				378	0
Perforating/Wireline Services	231	4,000	331	515,000		379	519,000
Stimulation/Treating			332	397,000		380	397,000
Completion Unit			333	138,000		381	148,000
Swabbing Unit			334				0
Rentals-Surface	235	190,000	335	310,000	359		507,000
Rentals-Subsurface	236	150,000	336	55,000		384	205,000
Trucking/Forklift/Rig Mobilization	237	120,000	337	20,000	360		143,000
Welding Services	238	4,000	338	5,000	361		9,000
Water Disposal	239	0	339	60,000	362	135,000	195,000
Plug to Abandon	240	0	340				0
Seismic Analysis	241	0	341				0
Miscellaneous	242	0	342				0
Contingency	243	63,000	343	250,000	363		313,000
Closed Loop & Environmental	244	330,000	344	5,000	364		335,000
Coil Tubing			346	462,000			462,000
Flowback Crews & Equip			347	325,000			325,000
Offset Directional/Frac	248	0	348	48,000			48,000
TOTAL INTANGIBLES		3,506,400		7,231,700		238,000	11,007,600
TANGIBLE COSTS							
Surface Casing	401	73,000					73,000
Intermediate Casing	402	421,000					421,000
Production Casing/Liner	403	433,000					433,000
Tubing			504	47,300		530	57,300
Wellhead Equipment	405	75,000	505	22,000		531	100,000
Pumping Unit				0		506	98,000
Prime Mover				0		507	0
Rods				0		508	65,000
Pumps-Sub Surface (BH)			509			532	5,500
Tanks					510	35,800	35,800
Flowlines					511	85,000	85,000
Heater Treater/Separator					512	159,465	159,465
Electrical System					513	60,000	80,000
Packers/Anchors/Hangers	414	0	514	66,000		534	68,000
Couplings/Fittings/Valves	415	0			515	76,000	76,000
Dehydration					517		0
Injection Plant/CO2 Equipment					518		0
Pumps-Surface					521	6,250	6,250
Instrumentation/SCADA/POC					522		7,000
Miscellaneous	419	0	519		523		3,000
Contingency	420	0	520		524		0
Meters/LACT					525	29,150	29,150
Flares/Combusters/Emission					526	15,000	15,000
Gas Lift/Compression			527	15,000	516	75,000	90,000
TOTAL TANGIBLES		1,002,000		150,300		541,665	1,907,465
TOTAL WELL COSTS		4,508,400		7,382,000		779,665	12,915,065

**% of Total Well Cost**

35%

**57%**

6%

2%

COG Operating LLC

Date Prepared: 3/27/2018 for proposal

COG Operating LLC

We approve: \_\_\_\_\_  
% Working Interest

By: PWS

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.

April 13, 2018

US Certified Mail No. 91 7199 9991 7038 1571 5342

Marathon Oil Permian LLC  
5555 San Felipe St.  
Houston, Texas 77056

**Re: Well Proposal – Fascinator Federal Com 602H**  
Sec 30: E/2W/2 - T24S-R35E  
Sec 31: E/2W/2 - T24S-R35E  
SHL: 210' FNL/ 1480' FWL, or a legal location in Sec 30 (Unit C)  
BHL: 200' FSL/ 1450' FWL, or a legal location in Sec 31 (Unit N)  
Lea County, New Mexico

Dear Sir/Madam:

COG Operating LLC ("COG"), as Operator, hereby proposes to drill the Fascinator Federal Com 602H 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 12,615' and a MD of approximately 22,400' to test the Wolfbone Pool ("Operation"). The total cost of the Operation is estimated to be \$12,915,065, 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 covers Sec 30: E/2W/2 - T24S-R35E and Sec 31: E/2W/2 - T24S-R35E. It has the following general provisions:

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**BEFORE THE OIL CONSERVATION DIVISION**  
Santa Fe, New Mexico  
**Exhibit No. 14**  
Submitted by: **COG OPERATING LLC**  
Hearing Date: July 26, 2018  
Case Nos. 16219 & 16220

If you have any questions, please contact the undersigned at (432) 685-2588 Mflanagan@concho.com.

Respectfully,

*Megan L. Tipton*

Megan Tipton  
Landman

\_\_\_\_\_ I/We hereby elect to participate in the Fascinator Federal Com 602H.

\_\_\_\_\_ I/We hereby elect not to participate in the Fascinator Federal Com 602H.

Company: \_\_\_\_\_

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

April 13, 2018

US Certified Mail No. 91 7199 9991 7038 1571 5465

Chevron U. S. A. Inc.  
1400 Smith Street  
Houston, TX 77002

**Re: Well Proposal – Fascinator Federal Com 602H**  
Sec 30: E/2W/2 - T24S-R35E  
Sec 31: E/2W/2 - T24S-R35E  
SHL: 210' FNL/ 1480' FWL, or a legal location in Sec 30 (Unit C)  
BHL: 200' FSL/ 1450' FWL, or a legal location in Sec 31 (Unit N)  
Lea County, New Mexico

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- 3 Year Primary Term
- 25% Royalty Interest

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*Megan L. Tipton*

Megan Tipton  
Landman

\_\_\_\_\_ I/We hereby elect to participate in the Fascinator Federal Com 602H.

\_\_\_\_\_ I/We hereby elect not to participate in the Fascinator Federal Com 602H.

Company: \_\_\_\_\_

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



COG OPERATING LLC  
AUTHORITY FOR EXPENDITURE  
DRILLING

WELL NAME:	FASCINATOR FED COM 602H	PROSPECT NAME:	BULLDOG 717008
SHL:	210 FNL & 1480 FWL	STATE & COUNTY:	New Mexico, Lea
BHL:	200 FSL & 1450 FWL	OBJECTIVE:	DRILL AND COMPLETE
FORMATION:	WOLFBONE POOL	DEPTH:	22,400
LEGAL:	SEC 30-31 T24S-R35E	TVD:	12,615

INTANGIBLE COSTS		Drig - Rig		Tank Btty		Pmpq		TOTAL	
		Release(D)	Completion(C)	Constrctn(TB)	Equipment(PEQ)				
Title/Curative/Permit	201	11,000							11,000
Insurance	202	4,000	302						4,000
Damages/Right of Way	203	5,000	303						5,000
Survey/Stake Location	204	6,000		351					6,000
Location/Pits/Road Expense	205	120,000	305	10,000	353	31,000	366		161,000
Drilling / Completion Overhead	206	11,100	306						11,100
Turnkey Contract	207	0	307	1,397,000					1,397,000
Footage Contract	208	0	308	781,000					781,000
Daywork Contract	209	820,000	309	1,177,000					1,997,000
Directional Drilling Services	210	398,000	310	150,000					548,000
Fuel & Power	211	211,000	311	5,000	354		367		216,000
Water	212	60,000	312	855,000			368		915,000
Bits	213	133,200	313	4,500			369		137,700
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 (Kickoff Plug)	220	0					371		0
Float Equipment & Centralizers	221	45,000							45,000
Casing Crews & Equipment	222	60,000							60,000
Fishing Tools & Service	223	0	323				372		0
Geologic/Engineering	224	0	324		355		373		0
Contract Labor	225	5,500	325	8,200	356	72,000	374	6,500	92,200
Company Supervision	226	66,600	326	15,000	357		375		81,600
Contract Supervision	227	124,000	327	204,000	358		376	5,000	333,000
Testing Casing/Tubing	228	20,000	328	10,000			377		30,000
Mud Logging Unit	229	52,000	329						52,000
Logging	230	0					378		0
Perforating/Wireline Services	231	4,000	331	515,000			379		519,000
Stimulation/Treating			332	397,000			380		397,000
Completion Unit			333	138,000			381	10,000	148,000
Swabbing Unit			334				382		0
Rentals-Surface	235	190,000	335	310,000	359		383	7,000	507,000
Rentals-Subsurface	236	150,000	336	55,000			384		205,000
Trucking/Forklift/Rig Mobilization	237	120,000	337	20,000	360		385	3,000	143,000
Welding Services	238	4,000	338	5,000	361		386		9,000
Water Disposal	239	0	339	60,000	362	135,000	387		195,000
Plug to Abandon	240	0	340						0
Seismic Analysis	241	0	341						0
Miscellaneous	242	0	342						0
Contingency	243	63,000	343	250,000	363		389		313,000
Closed Loop & Environmental	244	330,000	344	5,000	364		388		335,000
Coil Tubing			346	462,000					462,000
Flowback Crews & Equip			347	325,000					325,000
Offset Directional/Frac	248	0	348	48,000					48,000
TOTAL INTANGIBLES		3,506,400		7,231,700		238,000		31,500	11,007,600

TANGIBLE COSTS									
Surface Casing	401	73,000							73,000
Intermediate Casing	402	421,000							421,000
Production Casing/Liner	403	433,000							433,000
Tubing			504	47,300			530	10,000	57,300
Wellhead Equipment	405	75,000	505	22,000			531	3,000	100,000
Pumping Unit				0			506	98,000	98,000
Prime Mover				0			507		0
Rods				0			508	65,000	65,000
Pumps-Sub Surface (BH)			509				532	5,500	5,500
Tanks					510	35,800			35,800
Flowlines					511	85,000			85,000
Heater Treater/Separator					512	159,465			159,465
Electrical System					513	60,000	533	20,000	80,000
Packers/Anchors/Hangers	414	0	514	66,000			534	2,000	68,000
Couplings/Fittings/Valves	415	0			515	76,000			76,000
Dehydration					517				0
Injection Plant/CO2 Equipment					518				0
Pumps-Surface					521	6,250			6,250
Instrumentation/SCADA/POC					522		529	7,000	7,000
Miscellaneous	419	0	519		523		535	3,000	3,000
Contingency	420	0	520		524		536		0
Meters/LACT					525	29,150			29,150
Flares/Combusters/Emission					526	15,000			15,000
Gas Lift/Compression			527	15,000	516	75,000	528		90,000
TOTAL TANGIBLES		1,002,000		150,300		541,665		213,500	1,907,465
TOTAL WELL COSTS		4,508,400		7,382,000		779,665		245,000	12,915,065

	% of Total Well Cost	35%	57%	6%	2%
COG Operating LLC					
<hr/>		<u>Date Prepared: 3/27/2018 for proposal</u>			
		COG Operating LLC			
We approve:					
<hr/> % Working Interest		<u>By: PWS</u>			
Company:					
<u>By:</u>					
Printed Name:					
<u>Title:</u>		This AFE is only an estimate. By signing you agree to pay your share of the actual costs incurred.			
<u>Date:</u>					



April 13, 2018

US Certified Mail No. 91 7199 9991 7038 1571 5380

Energen Resources Corporation  
605 Richard Arrington, Jr. Blvd., N..  
Birmingham, AL 35203

**Re: Well Proposal – Fascinator Federal Com 603H**

Sec 30: Lots 1-4 - T24S-R35E

Sec 31: Lots 1-4 - T24S-R35E

SHL: 210' FNL/ 950' FWL, or a legal location in Sec 30 (Lot 1)

BHL: 200' FSL/ 950' FWL, or a legal location in Sec 31 (Lot 4)

Lea County, New Mexico

Dear Sir/Madam:

COG Operating LLC ("COG"), as Operator, hereby proposes to drill the Fascinator Federal Com 603H 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 12,640' and a MD of approximately 22,400' to test the Wolfbone Pool ("Operation"). The total cost of the Operation is estimated to be \$12,915,065, 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 covers Sec 30: Lots 1-4 - T24S-R35E and Sec 31: Lots 1-4 - T24S-R35E. 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 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 proposes to acquire your interest via term assignment. It has the following general provisions:

- 3 year primary term
- Delivering a 75% NRI, proportionately reduced
- \$2,000 per net acre bonus consideration

The Term Assignment offer expires 5 p.m., Central Time, June 13, 2018, and it 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 contact the undersigned at (432) 685-2588 Mflanagan@concho.com.

Respectfully,

*Megan L. Tipton*

Megan Tipton  
Landman

\_\_\_\_\_ I/We hereby elect to participate in the Fascinator Federal Com 603H.

\_\_\_\_\_ I/We hereby elect not to participate in the Fascinator Federal Com 603H.

Company: \_\_\_\_\_

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

April 13, 2018

US Certified Mail No. 91 7199 9991 7038 1571 5465

Chevron U. S. A. Inc.  
1400 Smith Street  
Houston, TX 77002

**Re: Well Proposal – Fascinator Federal Com 603H**  
Sec 30: Lots 1-4 - T24S-R35E  
Sec 31: Lots 1-4 - T24S-R35E  
SHL: 210' FNL/ 950' FWL, or a legal location in Sec 30 (Lot 1)  
BHL: 200' FSL/ 950' FWL, or a legal location in Sec 31 (Lot 4)  
Lea County, New Mexico

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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 covers Sec 30: Lots 1-4 - T24S-R35E and Sec 31: Lots 1-4 - T24S-R35E. 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 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 lease your minerals under the following general terms:

- Bonus of \$2,000 /Net Mineral Acre
- 3 Year Primary Term
- 25% Royalty Interest

The Lease 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 contact the undersigned at (432) 685-2588 Mflanagan@concho.com.

Respectfully,

*Megan L. Tipton*

Megan Tipton  
Landman

\_\_\_\_\_ I/We hereby elect to participate in the Fascinator Federal Com 603H.

\_\_\_\_\_ I/We hereby elect not to participate in the Fascinator Federal Com 603H.

Company: \_\_\_\_\_

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

COG OPERATING LLC			
AUTHORITY FOR EXPENDITURE			
DRILLING			
WELL NAME: FASCINATOR FED COM 603H		PROSPECT NAME: BULLDOG 717008	
SHL:	210 FNL & 950 FWL	STATE & COUNTY:	New Mexico, Lea
BHL:	200 FSL & 950 FWL	OBJECTIVE:	DRILL AND COMPLETE
FORMATION:	WOLFBONE POOL	DEPTH:	22,400
LEGAL:	SEC 30-31 T24S-R35E	TVD:	12,640

INTANGIBLE COSTS		Drig - Rig Release(D)	Completion(C)	Tank Btty Constrctn(TB)	Pmpg Equipment(PEQ)	TOTAL
Title/Curative/Permit	201	11,000				11,000
Insurance	202	4,000	302			4,000
Damages/Right of Way	203	5,000	303			5,000
Survey/Stake Location	204	6,000		351		6,000
Location/Pits/Road Expense	205	120,000	305	10,000	353	31,000
366	206	11,100	306			161,000
Drilling / Completion Overhead	207					11,100
Turnkey Contract	208	0	307	1,397,000		1,397,000
Footage Contract	209	0	308	781,000		781,000
Daywork Contract	210	820,000	309	1,177,000		1,997,000
Directional Drilling Services	211	398,000	310	150,000		548,000
Fuel & Power	212	211,000	311	5,000	354	367
Water	213	60,000	312	855,000		368
Bits	214	133,200	313	4,500		369
Mud & Chemicals	215	275,000	314	25,000		370
Drill Stem Test	216	0	315			300,000
Coring & Analysis	217	0				0
Cement Surface	218	28,000				0
Cement Intermediate	219	75,000				28,000
Cement 2nd Intermediate/Production	220	115,000				75,000
Cement Squeeze & Other (Kickoff Plug)	221	0				115,000
Float Equipment & Centralizers	222	45,000			371	0
Casing Crews & Equipment	223	60,000				45,000
Fishing Tools & Service	224	0	323			60,000
Geologic/Engineering	225	0	324		372	0
Contract Labor	226	5,500	325	8,200	355	373
Company Supervision	227	66,600	326	15,000	356	72,000
Contract Supervision	228	124,000	327	204,000	357	374
Testing Casing/Tubing	229	20,000	328	10,000		375
Mud Logging Unit	230	52,000	329			376
Logging	231	0				5,000
Perforating/Wireline Services	232	4,000	331	515,000		377
Stimulation/Treating	233		332	397,000		378
Completion Unit	234		333	138,000		379
Swabbing Unit	235	190,000	334			380
Rentals-Surface	236	150,000	335	310,000	359	381
Rentals-Subsurface	237	120,000	336	55,000		10,000
Trucking/Forklift/Rig Mobilization	238	4,000	337	20,000	360	382
Welding Services	239	0	338	5,000	361	383
Water Disposal	240	0	339	60,000	362	7,000
Plug to Abandon	241	0	340			384
Seismic Analysis	242	0	341			385
Miscellaneous	243	63,000	342			3,000
Contingency	244	330,000	343	250,000	363	386
Closed Loop & Environmental	245		344	5,000	364	387
Coil Tubing	246		345	462,000		388
Flowback Crews & Equip	247		346	325,000		
Offset Directional/Frac	248	0	347	48,000		389
TOTAL INTANGIBLES		3,506,400		7,231,700		238,000
						31,500
						11,007,600

TANGIBLE COSTS						
Surface Casing	401	73,000				73,000
Intermediate Casing	402	421,000				421,000
Production Casing/Liner	403	433,000				433,000
Tubing			504	47,300		57,300
Wellhead Equipment	405	75,000	505	22,000		100,000
Pumping Unit				0	530	3,000
Prime Mover				0	531	98,000
Rods				0	532	98,000
Pumps-Sub Surface (BH)			509		507	0
Tanks					508	65,000
Flowlines					509	65,000
Heater Treater/Separator					510	5,500
Electrical System					511	5,500
Packers/Anchors/Hangers	414	0	514	66,000	512	35,800
Couplings/Fittings/Valves	415	0			513	85,000
Dehydration					514	159,465
Injection Plant/CO2 Equipment					515	60,000
Pumps-Surface					516	20,000
Instrumentation/SCADA/POC					517	2,000
Miscellaneous	419	0	519		518	68,000
Contingency	420	0	520		519	76,000
Meters/LACT					520	0
Flares/Combusters/Emission					521	0
Gas Lift/Compression			527	15,000	522	6,250
TOTAL TANGIBLES		1,002,000		150,300		7,000
TOTAL WELL COSTS		4,508,400		7,382,000		3,000
						0
						29,150
						15,000
						90,000
						1,907,465
						12,915,065

	% of Total Well Cost	35%	57%	6%	2%
COG Operating LLC					
<hr/>		<u>Date Prepared: 3/27/2018 for proposal</u>			
We approve:		COG Operating LLC			
<u>      </u> % Working Interest		<u>By: PWS</u>			
<hr/>					
Company:					
<u>By:</u>					
<hr/>					
Printed Name:					
<u>Title:</u>					
<u>Date:</u>					
<hr/>		This AFE is only an estimate. By signing you agree to pay your share of the actual costs incurred.			



COG OPERATING LLC			
AUTHORITY FOR EXPENDITURE			
DRILLING			
WELL NAME: FASCINATOR FED COM 603H		PROSPECT NAME: BULLDOG 717008	
SHL:	210 FNL & 950 FWL	STATE & COUNTY:	New Mexico, Lea
BHL:	200 FSL & 950 FWL	OBJECTIVE:	DRILL AND COMPLETE
FORMATION:	WOLFBONE POOL	DEPTH:	22,400
LEGAL:	SEC 30-31 T24S-R35E	TVD:	12,640

INTANGIBLE COSTS		Drilq - Rig Release(D)	Completion(C)	Tank Btty Constrctn(TB)	Pmpq Equipment(PEQ)	TOTAL
Title/Curative/Permit	201	11,000				11,000
Insurance	202	4,000	302			4,000
Damages/Right of Way	203	5,000	303			5,000
Survey/Stake Location	204	6,000		351		6,000
Location/Pits/Road Expense	205	120,000	305	10,000	353	31,000
366	206	11,100	306			161,000
						11,100
Turnkey Contract	207	0	307	1,397,000		1,397,000
Footage Contract	208	0	308	781,000		781,000
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Directional Drilling Services	210	398,000	310	150,000		548,000
Fuel & Power	211	211,000	311	5,000	354	367
Water	212	60,000	312	855,000		368
Bits	213	133,200	313	4,500		369
Mud & Chemicals	214	275,000	314	25,000		370
Drill Stem Test	215	0	315			
						300,000
Coring & Analysis	216	0				0
Cement Surface	217	28,000				0
Cement Intermediate	218	75,000				28,000
Cernent 2nd Intermediate/Production	219	115,000				75,000
Cement Squeeze & Other (Kickoff Plug)	220	0			371	115,000
Float Equipment & Centralizers	221	45,000				0
Casing Crews & Equipment	222	60,000				45,000
Fishing Tools & Service	223	0	323			60,000
Geologic/Engineering	224	0	324			0
Contract Labor	225	5,500	325	8,200	356	72,000
Company Supervision	226	66,600	326	15,000	357	374
Contract Supervision	227	124,000	327	204,000	358	6,500
Testing Casing/Tubing	228	20,000	328	10,000		375
Mud Logging Unit	229	52,000	329			376
Logging	230	0				5,000
Perforating/Wireline Services	231	4,000	331	515,000		377
Stimulation/Treating			332	397,000		378
Completion Unit			333	138,000		379
Swabbing Unit			334			380
Rentals-Surface	235	190,000	335	310,000	359	381
Rentals-Subsurface	236	150,000	336	55,000		10,000
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						11,007,600
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Production Casing/Liner	403	433,000				433,000
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Wellhead Equipment	405	75,000	505	22,000		10,000
Pumping Unit				0		531
Prime Mover				0		3,000
Rods				0		98,000
Pumps-Sub Surface (BH)			509			507
Tanks						0
Flowlines						508
Heater Treater/Separator						65,000
Electrical System						5,500
Packers/Anchors/Hangers	414	0	514	66,000		510
Couplings/Fittings/Valves	415	0				35,800
Dehydration						85,000
Injection Plant/CO2 Equipment						159,465
Pumps-Surface						60,000
Instrumentation/SCADA/POC						20,000
Miscellaneous	419	0	519			2,000
Contingency	420	0	520			
Meters/LACT						76,000
Flares/Combusters/Emission						0
Gas Lift/Compression			527	15,000		0
						6,250
TOTAL TANGIBLES		1,002,000		150,300		7,000
						3,000
						0
						29,150
						15,000
						90,000
TOTAL TANGIBLES		1,002,000		150,300		541,665
TOTAL WELL COSTS		4,508,400		7,382,000		779,665
						245,000
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	% of Total Well Cost	35%	57%	6%	2%
COG Operating LLC					
		Date Prepared: 3/27/2018 for proposal			
		COG Operating LLC			
We approve:					
_____% Working Interest		By: PWS			
Company: Marathon Oil Permian LLC					
By:					
Printed Name:					
Title:					
Date:		This AFE is only an estimate. By signing you agree to pay your share of the actual costs incurred.			

AUTHORITY FOR EXPENDITURE  
DRILLING

WELL NAME:	FASCINATOR FED COM 603H	PROSPECT NAME:	BULLDOG 717008
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BHL:	200 FSL & 950 FWL	OBJECTIVE:	DRILL AND COMPLETE
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LEGAL:	SEC 30-31 T24S-R35E	TVD:	12,640

		Drig - Rig		Completion(C)		Tank Btty		Pmpg		TOTAL
INTANGIBLE COSTS		Release(D)				Constrctn(TB)		Equipment(PEQ)		
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Insurance	202	4,000	302							4,000
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Mud & Chemicals	214	275,000	314	25,000			370			300,000
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Testing Casing/Tubing	228	20,000	328	10,000			377			30,000
Mud Logging Unit	229	52,000	329							52,000
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Dehydration					517					0
Injection Plant/CO2 Equipment					518					0
Pumps-Surface					521	6,250				6,250
Instrumentation/SCADA/POC					522		529	7,000		7,000
Miscellaneous	419	0	519		523		535	3,000		3,000
Contingency	420	0	520		524		536			0
Meters/LACT					525	29,150				29,150
Flares/Combusters/Emission					526	15,000				15,000
Gas Lift/Compression			527	15,000	516	75,000	528			90,000
TOTAL TANGIBLES		1,002,000		150,300		541,665		213,500		1,907,465
TOTAL WELL COSTS		4,508,400		7,382,000		779,665		245,000		12,915,065

	% of Total Well Cost	35%	57%	6%	2%
COG Operating LLC					
<hr/>		<u>Date Prepared: 3/27/2018 for proposal</u>			
We approve:		COG Operating LLC			
<hr/> % Working Interest		<u>By: PWS</u>			
Company: <b>Oxy USA Inc.</b>					
By: <hr/>					
Printed Name: <hr/>					
Title: <hr/>					
Date: <hr/>		This AFE is only an estimate. By signing you agree to pay your share of the actual costs incurred.			

COG OPERATING LLC			
AUTHORITY FOR EXPENDITURE			
DRILLING			
WELL NAME: FASCINATOR FED COM 603H		PROSPECT NAME: BULLDOG 717008	
SHL:	210 FNL & 950 FWL	STATE & COUNTY:	New Mexico, Lea
BHL:	200 FSL & 950 FWL	OBJECTIVE:	DRILL AND COMPLETE
FORMATION:	WOLFBONE POOL	DEPTH:	22,400
LEGAL:	SEC 30-31 T24S-R35E	TVD:	12,640

INTANGIBLE COSTS		Drig - Rig		Tank Btty		Pmpg		TOTAL	
		Release(D)	Completion(C)	Constrctn(TB)	Equipment(PEQ)				
Title/Curative/Permit	201	11,000							11,000
Insurance	202	4,000	302						4,000
Damages/Right of Way	203	5,000	303	351					5,000
Survey/Stake Location	204	6,000		352					6,000
Location/Pits/Road Expense	205	120,000	305	353	31,000	366			161,000
Drilling / Completion Overhead	206	11,100	306						11,100
Turnkey Contract	207	0	307	1,397,000					1,397,000
Footage Contract	208	0	308	781,000					781,000
Daywork Contract	209	820,000	309	1,177,000					1,997,000
Directional Drilling Services	210	398,000	310	150,000					548,000
Fuel & Power	211	211,000	311	5,000	354	367			216,000
Water	212	60,000	312	855,000		368			915,000
Bits	213	133,200	313	4,500		369			137,700
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 (Kickoff Plug)	220	0				371			0
Float Equipment & Centralizers	221	45,000							45,000
Casing Crews & Equipment	222	60,000							60,000
Fishing Tools & Service	223	0	323			372			0
Geologic/Engineering	224	0	324	355		373			0
Contract Labor	225	5,500	325	8,200	356	72,000	374	6,500	92,200
Company Supervision	226	66,600	326	15,000	357		375		81,600
Contract Supervision	227	124,000	327	204,000	358		376	5,000	333,000
Testing Casing/Tubing	228	20,000	328	10,000			377		30,000
Mud Logging Unit	229	52,000	329						52,000
Logging	230	0				378			0
Perforating/Wireline Services	231	4,000	331	515,000		379			519,000
Stimulation/Treating			332	397,000		380			397,000
Completion Unit			333	138,000		381	10,000		148,000
Swabbing Unit			334			382			0
Rentals-Surface	235	190,000	335	310,000	359	383	7,000		507,000
Rentals-Subsurface	236	150,000	336	55,000		384			205,000
Trucking/Forklift/Rig Mobilization	237	120,000	337	20,000	360	385	3,000		143,000
Welding Services	238	4,000	338	5,000	361	386			9,000
Water Disposal	239	0	339	60,000	362	135,000	387		195,000
Plug to Abandon	240	0	340						0
Seismic Analysis	241	0	341						0
Miscellaneous	242	0	342						0
Contingency	243	63,000	343	250,000	363	389			313,000
Closed Loop & Environmental	244	330,000	344	5,000	364	388			335,000
Coil Tubing			346	462,000					462,000
Flowback Crews & Equip			347	325,000					325,000
Offset Directional/Frac	248	0	348	48,000					48,000
TOTAL INTANGIBLES		3,506,400		7,231,700		238,000		31,500	11,007,600

TANGIBLE COSTS									
Surface Casing	401	73,000							73,000
Intermediate Casing	402	421,000							421,000
Production Casing/Liner	403	433,000							433,000
Tubing			504	47,300			530	10,000	57,300
Wellhead Equipment	405	75,000	505	22,000			531	3,000	100,000
Pumping Unit				0			506	98,000	98,000
Prime Mover				0			507		0
Rods				0			508	65,000	65,000
Pumps-Sub Surface (BH)			509				532	5,500	5,500
Tanks					510	35,800			35,800
Flowlines					511	85,000			85,000
Heater Treater/Separator					512	159,465			159,465
Electrical System					513	60,000	533	20,000	80,000
Packers/Anchors/Hangers	414	0	514	66,000			534	2,000	68,000
Couplings/Fittings/Valves	415	0			515	76,000			76,000
Dehydration					517				0
Injection Plant/CO2 Equipment					518				0
Pumps-Surface					521	6,250			6,250
Instrumentation/SCADA/POC					522		529	7,000	7,000
Miscellaneous	419	0	519		523		535	3,000	3,000
Contingency	420	0	520		524		536		0
Meters/LACT					525	29,150			29,150
Flares/Combusters/Emission					526	15,000			15,000
Gas Lift/Compression			527	15,000	516	75,000	528		90,000
TOTAL TANGIBLES		1,002,000		150,300		541,665		213,500	1,907,465
TOTAL WELL COSTS		4,508,400		7,382,000		779,665		245,000	12,915,065

% of Total Well Cost		35%	57%	6%	2%
COG Operating LLC		Date Prepared: 3/27/2018 for proposal			
		COG Operating LLC			
We approve: _____ % Working Interest		By: PWS			
Company: Advance Energy Partners, LLC					
By: _____					
Printed Name: _____					
Title: _____					
Date: _____		This AFE is only an estimate. By signing you agree to pay your share of the actual costs incurred.			

COG OPERATING LLC  
AUTHORITY FOR EXPENDITURE  
DRILLING

WELL NAME:	FASCINATOR FED COM 603H	PROSPECT NAME:	BULLDOG 717008
SHL:	210 FNL & 950 FWL	STATE & COUNTY:	New Mexico, Lea
BHL:	200 FSL & 950 FWL	OBJECTIVE:	DRILL AND COMPLETE
FORMATION:	WOLFBONE POOL	DEPTH:	22,400
LEGAL:	SEC 30-31 T24S-R35E	TVD:	12,640

		Drig - Rig		Completion(C)		Tank Btty		Pmpg		TOTAL
INTANGIBLE COSTS		Release(D)				Constrctn(TB)		Equipment(PEQ)		
Title/Curative/Permit	201	11,000								11,000
Insurance	202	4,000	302							4,000
Damages/Right of Way	203	5,000	303		351					5,000
Survey/Stake Location	204	6,000			352					6,000
Location/Pits/Road Expense	205	120,000	305	10,000	353	31,000	366			161,000
Drilling / Completion Overhead	206	11,100	306							11,100
Turnkey Contract	207	0	307	1,397,000						1,397,000
Footage Contract	208	0	308	781,000						781,000
Daywork Contract	209	820,000	309	1,177,000						1,997,000
Directional Drilling Services	210	398,000	310	150,000						548,000
Fuel & Power	211	211,000	311	5,000	354		367			216,000
Water	212	60,000	312	855,000			368			915,000
Bits	213	133,200	313	4,500			369			137,700
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 (Kickoff Plug)	220	0					371			0
Float Equipment & Centralizers	221	45,000								45,000
Casing Crews & Equipment	222	60,000								60,000
Fishing Tools & Service	223	0	323				372			0
Geologic/Engineering	224	0	324		355		373			0
Contract Labor	225	5,500	325	8,200	356	72,000	374	6,500		92,200
Company Supervision	226	66,600	326	15,000	357		375			81,600
Contract Supervision	227	124,000	327	204,000	358		376	5,000		333,000
Testing Casing/Tubing	228	20,000	328	10,000			377			30,000
Mud Logging Unit	229	52,000	329							52,000
Logging	230	0					378			0
Perforating/Wireline Services	231	4,000	331	515,000			379			519,000
Stimulation/Treating			332	397,000			380			397,000
Completion Unit			333	138,000			381	10,000		148,000
Swabbing Unit			334				382			0
Rentals-Surface	235	190,000	335	310,000	359		383	7,000		507,000
Rentals-Subsurface	236	150,000	336	55,000			384			205,000
Trucking/Forklift/Rig Mobilization	237	120,000	337	20,000	360		385	3,000		143,000
Welding Services	238	4,000	338	5,000	361		386			9,000
Water Disposal	239	0	339	60,000	362	135,000	387			195,000
Plug to Abandon	240	0	340							0
Seismic Analysis	241	0	341							0
Miscellaneous	242	0	342				389			0
Contingency	243	63,000	343	250,000	363		390			313,000
Closed Loop & Environmental	244	330,000	344	5,000	364		388			335,000
Coil Tubing			346	462,000						462,000
Flowback Crews & Equip			347	325,000						325,000
Offset Directional/Frac	248	0	348	48,000						48,000
TOTAL INTANGIBLES		3,506,400		7,231,700		238,000		31,500		11,007,600
TANGIBLE COSTS										
Surface Casing	401	73,000								73,000
Intermediate Casing	402	421,000								421,000
Production Casing/Liner	403	433,000								433,000
Tubing			504	47,300			530	10,000		57,300
Wellhead Equipment	405	75,000	505	22,000			531	3,000		100,000
Pumping Unit				0			506	98,000		98,000
Prime Mover				0			507			0
Rods				0			508	65,000		65,000
Pumps-Sub Surface (BH)			509				532	5,500		5,500
Tanks					510	35,800				35,800
Flowlines					511	85,000				85,000
Heater Treater/Separator					512	159,465				159,465
Electrical System					513	60,000	533	20,000		80,000
Packers/Anchors/Hangers	414	0	514	66,000			534	2,000		68,000
Couplings/Fittings/Valves	415	0			515	76,000				76,000
Dehydration					517					0
Injection Plant/CO2 Equipment					518					0
Pumps-Surface					521	6,250				6,250
Instrumentation/SCADA/POC					522		529	7,000		7,000
Miscellaneous	419	0	519		523		535	3,000		3,000
Contingency	420	0	520		524		536			0
Meters/LACT					525	29,150				29,150
Flares/Combusters/Emission					526	15,000				15,000
Gas Lift/Compression			527	15,000	516	75,000	528			90,000
TOTAL TANGIBLES		1,002,000		150,300		541,665		213,500		1,907,465
TOTAL WELL COSTS		4,508,400		7,382,000		779,665		245,000		12,915,065

% of Total Well Cost		35%	57%	6%	2%
COG Operating LLC		Date Prepared: 3/27/2018 for proposal			
We approve:		COG Operating LLC			
% Working Interest		By: PWS			
Company: Scratch Properties, LLC					
By:					
Printed Name:					
Title:					
Date:					
		This AFE is only an estimate. By signing you agree to pay your share of the actual costs incurred.			

COG OPERATING LLC  
AUTHORITY FOR EXPENDITURE  
DRILLING

WELL NAME:	FASCINATOR FED COM 603H	PROSPECT NAME:	BULLDOG 717008
SHL:	210 FNL & 950 FWL	STATE & COUNTY:	New Mexico, Lea
BHL:	200 FSL & 950 FWL	OBJECTIVE:	DRILL AND COMPLETE
FORMATION:	WOLFBONE POOL	DEPTH:	22,400
LEGAL:	SEC 30-31 T24S-R35E	TVD:	12,640

INTANGIBLE COSTS		Drlg - Rig Release(D)		Completion(C)		Tank Btty Constrctn(TB)		Pmpq Equipment(PEQ)		TOTAL	
Title/Curative/Permit	201	11,000								11,000	
Insurance	202	4,000		302						4,000	
Damages/Right of Way	203	5,000		303		351				5,000	
Survey/Stake Location	204	6,000				352				6,000	
Location/Pits/Road Expense	205	120,000		305	10,000	353	31,000	366		161,000	
Drilling / Completion Overhead	206	11,100		306						11,100	
Turnkey Contract	207	0		307	1,397,000					1,397,000	
Footage Contract	208	0		308	781,000					781,000	
Daywork Contract	209	820,000		309	1,177,000					1,997,000	
Directional Drilling Services	210	398,000		310	150,000					548,000	
Fuel & Power	211	211,000		311	5,000	354		367		216,000	
Water	212	60,000		312	855,000			368		915,000	
Bits	213	133,200		313	4,500			369		137,700	
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 (Kickoff Plug)	220	0						371		0	
Float Equipment & Centralizers	221	45,000								45,000	
Casing Crews & Equipment	222	60,000								60,000	
Fishing Tools & Service	223	0		323				372		0	
Geologic/Engineering	224	0		324		355		373		0	
Contract Labor	225	5,500		325	8,200	356	72,000	374	6,500	92,200	
Company Supervision	226	66,600		326	15,000	357		375		81,600	
Contract Supervision	227	124,000		327	204,000	358		376	5,000	333,000	
Testing Casing/Tubing	228	20,000		328	10,000			377		30,000	
Mud Logging Unit	229	52,000		329						52,000	
Logging	230	0						378		0	
Perforating/Wireline Services	231	4,000		331	515,000			379		519,000	
Stimulation/Treating				332	397,000			380		397,000	
Completion Unit				333	138,000			381	10,000	148,000	
Swabbing Unit				334				382		0	
Rentals-Surface	235	190,000		335	310,000	359		383	7,000	507,000	
Rentals-Subsurface	236	150,000		336	55,000			384		205,000	
Trucking/Forklift/Rig Mobilization	237	120,000		337	20,000	360		385	3,000	143,000	
Welding Services	238	4,000		338	5,000	361		386		9,000	
Water Disposal	239	0		339	60,000	362	135,000	387		195,000	
Plug to Abandon	240	0		340						0	
Seismic Analysis	241	0		341						0	
Miscellaneous	242	0		342				389		0	
Contingency	243	63,000		343	250,000	363		390		313,000	
Closed Loop & Environmental	244	330,000		344	5,000	364		388		335,000	
Coil Tubing				346	462,000					462,000	
Flowback Crews & Equip				347	325,000					325,000	
Offset Directional/Frac	248	0		348	48,000					48,000	
TOTAL INTANGIBLES		3,506,400			7,231,700	238,000			31,500	11,007,600	

TANGIBLE COSTS									
Surface Casing	401	73,000							73,000
Intermediate Casing	402	421,000							421,000
Production Casing/Liner	403	433,000							433,000
Tubing			504	47,300			530	10,000	57,300
Wellhead Equipment	405	75,000	505	22,000			531	3,000	100,000
Pumping Unit				0			506	98,000	98,000
Prime Mover				0			507		0
Rods				0			508	65,000	65,000
Pumps-Sub Surface (BH)			509				532	5,500	5,500
Tanks					510	35,800			35,800
Flowlines					511	85,000			85,000
Heater Treater/Separator					512	159,465			159,465
Electrical System					513	60,000	533	20,000	80,000
Packers/Anchors/Hangers	414	0	514	66,000			534	2,000	68,000
Couplings/Fittings/Valves	415	0			515	76,000			76,000
Dehydration					517				0
Injection Plant/CO2 Equipment					518				0
Pumps-Surface					521	6,250			6,250
Instrumentation/SCADA/POC					522		529	7,000	7,000
Miscellaneous	419	0	519		523		535	3,000	3,000
Contingency	420	0	520		524		536		0
Meters/LACT					525	29,150			29,150
Flares/Combusters/Emission					526	15,000			15,000
Gas Lift/Compression			527	15,000	516	75,000	528		90,000
TOTAL TANGIBLES		1,002,000		150,300		541,665		213,500	1,907,465
TOTAL WELL COSTS		4,508,400		7,382,000		779,665		245,000	12,915,065

% of Total Well Cost

35%

57%

6%

2%

COG Operating LLC

Date Prepared: 3/27/2018 for proposal

We approve:

COG Operating LLC

% Working Interest

By: PWS

Company: Energen Resources Corporation

By:

Printed Name:

Title:

Date:

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

COG OPERATING LLC  
AUTHORITY FOR EXPENDITURE  
DRILLING

WELL NAME:	FASCINATOR FED COM 603H	PROSPECT NAME:	BULLDOG 717008
SHL:	210 FNL & 950 FWL	STATE & COUNTY:	New Mexico, Lea
BHL:	200 FSL & 950 FWL	OBJECTIVE:	DRILL AND COMPLETE
FORMATION:	WOLFBONE POOL	DEPTH:	22,400
LEGAL:	SEC 30-31 T24S-R35E	TVD:	12,640

		Drig - Rig		Completion(C)		Tank Btty		Pmpq		TOTAL
INTANGIBLE COSTS		Release(D)				Constrctn(TB)		Equipment(PEQ)		
Title/Curative/Permit	201	11,000								11,000
Insurance	202	4,000	302							4,000
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Daywork Contract	209	820,000	309	1,177,000						1,997,000
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Bits	213	133,200	313	4,500			369			137,700
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
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Testing Casing/Tubing	228	20,000	328	10,000			377			30,000
Mud Logging Unit	229	52,000	329							52,000
Logging	230	0					378			0
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Stimulation/Treating			332	397,000			380			397,000
Completion Unit			333	138,000			381	10,000		148,000
Swabbing Unit			334				382			0
Rentals-Surface	235	190,000	335	310,000	359		383	7,000		507,000
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Trucking/Forklift/Rig Mobilization	237	120,000	337	20,000	360		385	3,000		143,000
Welding Services	238	4,000	338	5,000	361		386			9,000
Water Disposal	239	0	339	60,000	362	135,000	387			195,000
Plug to Abandon	240	0	340							0
Seismic Analysis	241	0	341							0
Miscellaneous	242	0	342				389			0
Contingency	243	63,000	343	250,000	363		390			313,000
Closed Loop & Environmental	244	330,000	344	5,000	364		388			335,000
Coil Tubing			346	462,000						462,000
Flowback Crews & Equip			347	325,000						325,000
Offset Directional/Frac	248	0	348	48,000						48,000
TOTAL INTANGIBLES		3,506,400		7,231,700		238,000		31,500		11,007,600

TANGIBLE COSTS										
Surface Casing	401	73,000								73,000
Intermediate Casing	402	421,000								421,000
Production Casing/Liner	403	433,000								433,000
Tubing			504	47,300			530	10,000		57,300
Wellhead Equipment	405	75,000	505	22,000			531	3,000		100,000
Pumping Unit				0			506	98,000		98,000
Prime Mover				0			507			0
Rods				0			508	65,000		65,000
Pumps-Sub Surface (BH)			509				532	5,500		5,500
Tanks					510	35,800				35,800
Flowlines					511	85,000				85,000
Heater Treater/Separator					512	159,465				159,465
Electrical System					513	60,000	533	20,000		80,000
Packers/Anchors/Hangers	414	0	514	66,000			534	2,000		68,000
Couplings/Fittings/Valves	415	0			515	76,000				76,000
Dehydration					517					0
Injection Plant/CO2 Equipment					518					0
Pumps-Surface					521	6,250				6,250
Instrumentation/SCADA/POC					522		529	7,000		7,000
Miscellaneous	419	0	519		523		535	3,000		3,000
Contingency	420	0	520		524		536			0
Meters/LACT					525	29,150				29,150
Flares/Combusters/Emission					526	15,000				15,000
Gas Lift/Compression			527	15,000	516	75,000	528			90,000
TOTAL TANGIBLES		1,002,000		150,300		541,665		213,500		1,907,465
TOTAL WELL COSTS		4,508,400		7,382,000		779,665		245,000		12,915,065

% of Total Well Cost

35%

57%

6%

2%

COG Operating LLC

Date Prepared: 3/27/2018 for proposal

COG Operating LLC

We approve: % Working Interest

By: PWS

Company: Energex, LLC

By:

Printed Name:

Title:

Date:

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



COG OPERATING LLC			
AUTHORITY FOR EXPENDITURE			
DRILLING			
WELL NAME: FASCINATOR FED COM 603H		PROSPECT NAME: BULLDOG 717008	
SHL: 210 FNL & 950 FWL		STATE & COUNTY: New Mexico, Lea	
BHL: 200 FSL & 950 FWL		OBJECTIVE: DRILL AND COMPLETE	
FORMATION: WOLFBONE POOL		DEPTH: 22,400	
LEGAL: SEC 30-31 T24S-R35E		TVD: 12,640	

INTANGIBLE COSTS		Drig - Rig Release(D)	Completion(C)	Tank Btty Constrctn(TB)	Pmpg Equipment(PEQ)	TOTAL
Title/Curative/Permit	201	11,000				11,000
Insurance	202	4,000	302			4,000
Damages/Right of Way	203	5,000	303			5,000
Survey/Stake Location	204	6,000		351		6,000
Location/Pits/Road Expense	205	120,000	305	10,000	353	31,000
Drilling / Completion Overhead	206	11,100	306		366	
Turnkey Contract	207	0	307	1,397,000		
Footage Contract	208	0	308	781,000		
Daywork Contract	209	820,000	309	1,177,000		
Directional Drilling Services	210	398,000	310	150,000		
Fuel & Power	211	211,000	311	5,000	354	
Water	212	60,000	312	855,000		367
Bits	213	133,200	313	4,500		368
Mud & Chemicals	214	275,000	314	25,000		369
Drill Stem Test	215	0	315			370
Coring & Analysis	216	0				
Cement Surface	217	28,000				
Cement Intermediate	218	75,000				
Cement 2nd Intermediate/Production	219	115,000				
Cement Squeeze & Other (Kickoff Plug)	220	0				
Float Equipment & Centralizers	221	45,000				
Casing Crews & Equipment	222	60,000				
Fishing Tools & Service	223	0	323			
Geologic/Engineering	224	0	324			
Contract Labor	225	5,500	325	8,200	356	72,000
Company Supervision	226	66,600	326	15,000	357	
Contract Supervision	227	124,000	327	204,000	358	
Testing Casing/Tubing	228	20,000	328	10,000		377
Mud Logging Unit	229	52,000	329			
Logging	230	0				
Perforating/Wireline Services	231	4,000	331	515,000		
Stimulation/Treating			332	397,000		
Completion Unit			333	138,000		
Swabbing Unit			334			
Rentals-Surface	235	190,000	335	310,000	359	
Rentals-Subsurface	236	150,000	336	55,000		
Trucking/Forklift/Rig Mobilization	237	120,000	337	20,000	360	
Welding Services	238	4,000	338	5,000	361	
Water Disposal	239	0	339	60,000	362	135,000
Plug to Abandon	240	0	340			
Seismic Analysis	241	0	341			
Miscellaneous	242	0	342			
Contingency	243	63,000	343	250,000	363	
Closed Loop & Environmental	244	330,000	344	5,000	364	
Coil Tubing			346	462,000		
Flowback Crews & Equip			347	325,000		
Offset Directional/Frac	248	0	348	48,000		
TOTAL INTANGIBLES		3,506,400		7,231,700		238,000
						31,500
						11,007,600

TANGIBLE COSTS						
Surface Casing	401	73,000				73,000
Intermediate Casing	402	421,000				421,000
Production Casing/Liner	403	433,000				433,000
Tubing			504	47,300	530	10,000
Wellhead Equipment	405	75,000	505	22,000	531	3,000
Pumping Unit				0	506	98,000
Prime Mover				0	507	
Rods				0	508	65,000
Pumps-Sub Surface (BH)			509		532	5,500
Tanks					510	35,800
Flowlines					511	85,000
Heater Treater/Separator					512	159,465
Electrical System					513	60,000
Packers/Anchors/Hangers	414	0	514	66,000	534	2,000
Couplings/Fittings/Valves	415	0			515	76,000
Dehydration					517	
Injection Plant/CO2 Equipment					518	
Pumps-Surface					521	6,250
Instrumentation/SCADA/POC					522	
Miscellaneous	419	0	519		523	
Contingency	420	0	520		524	
Meters/LACT					525	29,150
Flares/Combusters/Emission					526	15,000
Gas Lift/Compression			527	15,000	516	75,000
TOTAL TANGIBLES		1,002,000		150,300		541,665
TOTAL WELL COSTS		4,508,400		7,382,000		779,665
						213,500
						245,000
						12,915,065

	% of Total Well Cost	35%	57%	6%	2%
COG Operating LLC					
<hr/>		Date Prepared: 3/27/2018 for proposal			
		COG Operating LLC			
We approve:					
<hr/> % Working Interest		By: PWS			
Company: <b>Chevron U. S. A. Inc.</b>					
By: <hr/>					
Printed Name: <hr/>					
Title: <hr/>					
Date: <hr/>		This AFE is only an estimate. By signing you agree to pay your share of the actual costs incurred.			

COG OPERATING LLC  
AUTHORITY FOR EXPENDITURE  
DRILLING

WELL NAME:	FASCINATOR FED COM 603H	PROSPECT NAME:	BULLDOG 717008
SHL:	210 FNL & 950 FWL	STATE & COUNTY:	New Mexico, Lea
BHL:	200 FSL & 950 FWL	OBJECTIVE:	DRILL AND COMPLETE
FORMATION:	WOLFBONE POOL	DEPTH:	22,400
LEGAL:	SEC 30-31 T24S-R35E	TVD:	12,640

		Drig - Rig		Completion(C)		Tank Btty	Pmpg		TOTAL	
		Release(D)				Constrctn(TB)	Equipment(PEQ)			
Title/Curative/Permit	201	11,000							11,000	
Insurance	202	4,000		302					4,000	
Damages/Right of Way	203	5,000		303	351				5,000	
Survey/Stake Location	204	6,000			352				6,000	
Location/Pits/Road Expense	205	120,000		305	10,000	31,000	366		161,000	
Drilling / Completion Overhead	206	11,100		306					11,100	
Turnkey Contract	207	0		307	1,397,000				1,397,000	
Footage Contract	208	0		308	781,000				781,000	
Daywork Contract	209	820,000		309	1,177,000				1,997,000	
Directional Drilling Services	210	398,000		310	150,000				548,000	
Fuel & Power	211	211,000		311	5,000		367		216,000	
Water	212	60,000		312	855,000		368		915,000	
Bits	213	133,200		313	4,500		369		137,700	
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 (Kickoff Plug)	220	0					371		0	
Float Equipment & Centralizers	221	45,000							45,000	
Casing Crews & Equipment	222	60,000							60,000	
Fishing Tools & Service	223	0		323			372		0	
Geologic/Engineering	224	0		324		355	373		0	
Contract Labor	225	5,500		325	8,200	72,000	374	6,500	92,200	
Company Supervision	226	66,600		326	15,000	357	375		81,600	
Contract Supervision	227	124,000		327	204,000	358	376	5,000	333,000	
Testing Casing/Tubing	228	20,000		328	10,000		377		30,000	
Mud Logging Unit	229	52,000		329					52,000	
Logging	230	0					378		0	
Perforating/Wireline Services	231	4,000		331	515,000		379		519,000	
Stimulation/Treating				332	397,000		380		397,000	
Completion Unit				333	138,000		381	10,000	148,000	
Swabbing Unit				334			382		0	
Rentals-Surface	235	190,000		335	310,000	359	383	7,000	507,000	
Rentals-Subsurface	236	150,000		336	55,000		384		205,000	
Trucking/Forklift/Rig Mobilization	237	120,000		337	20,000	360	385	3,000	143,000	
Welding Services	238	4,000		338	5,000	361	386		9,000	
Water Disposal	239	0		339	60,000	362	387		195,000	
Plug to Abandon	240	0		340					0	
Seismic Analysis	241	0		341					0	
Miscellaneous	242	0		342			389		0	
Contingency	243	63,000		343	250,000	363	390		313,000	
Closed Loop & Environmental	244	330,000		344	5,000	364	388		335,000	
Coil Tubing				346	462,000				462,000	
Flowback Crews & Equip				347	325,000				325,000	
Offset Directional/Frac	248	0		348	48,000				48,000	
TOTAL INTANGIBLES		3,506,400			7,231,700	238,000	31,500		11,007,600	

TANGIBLE COSTS									
Surface Casing	401	73,000							73,000
Intermediate Casing	402	421,000							421,000
Production Casing/Liner	403	433,000							433,000
Tubing			504	47,300			530	10,000	57,300
Wellhead Equipment	405	75,000	505	22,000			531	3,000	100,000
Pumping Unit				0			506	98,000	98,000
Prime Mover				0			507		0
Rods				0			508	65,000	65,000
Pumps-Sub Surface (BH)			509				532	5,500	5,500
Tanks					510	35,800			35,800
Flowlines					511	85,000			85,000
Heater Treater/Separator					512	159,465			159,465
Electrical System					513	60,000	533	20,000	80,000
Packers/Anchors/Hangers	414	0	514	66,000			534	2,000	68,000
Couplings/Fittings/Valves	415	0			515	76,000			76,000
Dehydration					517				0
Injection Plant/CO2 Equipment					518				0
Pumps-Surface					521	6,250			6,250
Instrumentation/SCADA/POC					522		529	7,000	7,000
Miscellaneous	419	0	519		523		535	3,000	3,000
Contingency	420	0	520		524		536		0
Meters/LACT					525	29,150			29,150
Flares/Combusters/Emission					526	15,000			15,000
Gas Lift/Compression			527	15,000	516	75,000	528		90,000
TOTAL TANGIBLES		1,002,000		150,300		541,665		213,500	1,907,465
TOTAL WELL COSTS		4,508,400		7,382,000		779,665		245,000	12,915,065

% of Total Well Cost	35%	57%	6%	2%
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COG Operating LLC

We approve:  
\_\_\_\_\_% Working Interest

Burlington Resources Oil and Gas  
Company, LP  
By: \_\_\_\_\_

Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

Date Prepared: 3/27/2018 for proposal

COG Operating LLC

By: PWS

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

COG OPERATING LLC			
AUTHORITY FOR EXPENDITURE			
DRILLING			
WELL NAME: FASCINATOR FED COM 603H		PROSPECT NAME: BULLDOG 717008	
SHL: 210 FNL & 950 FWL		STATE & COUNTY: New Mexico, Lea	
BHL: 200 FSL & 950 FWL		OBJECTIVE: DRILL AND COMPLETE	
FORMATION: WOLFBONE POOL		DEPTH: 22,400	
LEGAL: SEC 30-31 T24S-R35E		TVD: 12,640	

INTANGIBLE COSTS		Drig - Rig Release(D)	Completion(C)	Tank Btty Constrctn(TB)	Pmpg Equipment(PEQ)	TOTAL
Title/Curative/Permit	201	11,000				11,000
Insurance	202	4,000	302			4,000
Damages/Right of Way	203	5,000	303	351		5,000
Survey/Stake Location	204	6,000		352		6,000
Location/Pits/Road Expense	205	120,000	305 10,000	353 31,000	366	161,000
Drilling / Completion Overhead	206	11,100	306			11,100
Turnkey Contract	207	0	307 1,397,000			1,397,000
Footage Contract	208	0	308 781,000			781,000
Daywork Contract	209	820,000	309 1,177,000			1,997,000
Directional Drilling Services	210	398,000	310 150,000			548,000
Fuel & Power	211	211,000	311 5,000	354	367	216,000
Water	212	60,000	312 855,000		368	915,000
Bits	213	133,200	313 4,500		369	137,700
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 (Kickoff Plug)	220	0			371	0
Float Equipment & Centralizers	221	45,000				45,000
Casing Crews & Equipment	222	60,000				60,000
Fishing Tools & Service	223	0	323		372	0
Geologic/Engineering	224	0	324	355	373	0
Contract Labor	225	5,500	325 8,200	356 72,000	374 6,500	92,200
Company Supervision	226	66,600	326 15,000	357	375	81,600
Contract Supervision	227	124,000	327 204,000	358	376 5,000	333,000
Testing Casing/Tubing	228	20,000	328 10,000		377	30,000
Mud Logging Unit	229	52,000	329			52,000
Logging	230	0			378	0
Perforating/Wireline Services	231	4,000	331 515,000		379	519,000
Stimulation/Treating			332 397,000		380	397,000
Completion Unit			333 138,000		381 10,000	148,000
Swabbing Unit			334		382	0
Rentals-Surface	235	190,000	335 310,000	359	383 7,000	507,000
Rentals-Subsurface	236	150,000	336 55,000		384	205,000
Trucking/Forklift/Rig Mobilization	237	120,000	337 20,000	360	385 3,000	143,000
Welding Services	238	4,000	338 5,000	361	386	9,000
Water Disposal	239	0	339 60,000	362 135,000	387	195,000
Plug to Abandon	240	0	340			0
Seismic Analysis	241	0	341			0
Miscellaneous	242	0	342		389	0
Contingency	243	63,000	343 250,000	363	390	313,000
Closed Loop & Environmental	244	330,000	344 5,000	364	388	335,000
Coil Tubing			346 462,000			462,000
Flowback Crews & Equip			347 325,000			325,000
Offset Directional/Frac	248	0	348 48,000			48,000
TOTAL INTANGIBLES		3,508,400	7,231,700	238,000	31,500	11,007,600

TANGIBLE COSTS						
Surface Casing	401	73,000				73,000
Intermediate Casing	402	421,000				421,000
Production Casing/Liner	403	433,000				433,000
Tubing			504 47,300		530 10,000	57,300
Wellhead Equipment	405	75,000	505 22,000		531 3,000	100,000
Pumping Unit			0		506 98,000	98,000
Prime Mover			0		507	0
Rods			0		508 65,000	65,000
Pumps-Sub Surface (BH)		509			532 5,500	5,500
Tanks				510 35,800		35,800
Flowlines				511 85,000		85,000
Heater Treater/Separator				512 159,465		159,465
Electrical System				513 60,000	533 20,000	80,000
Packers/Anchors/Hangers	414	0	514 66,000		534 2,000	68,000
Couplings/Fittings/Valves	415	0		515 76,000		76,000
Dehydration				517		0
Injection Plant/CO2 Equipment				518		0
Pumps-Surface				521 6,250		6,250
Instrumentation/SCADA/POC				522	529 7,000	7,000
Miscellaneous	419	0	519	523	535 3,000	3,000
Contingency	420	0	520	524	536	0
Meters/LACT				525 29,150		29,150
Flares/Combusters/Emission				526 15,000		15,000
Gas Lift/Compression			527 15,000	516 75,000	528	90,000
TOTAL TANGIBLES		1,002,000	150,300	541,665	213,500	1,907,465
TOTAL WELL COSTS		4,508,400	7,382,000	779,665	245,000	12,915,065

% of Total Well Cost		35%	57%	6%	2%
COG Operating LLC		Date Prepared: 3/27/2018 for proposal			
		COG Operating LLC			
We approve:		By: PWS			
% Working Interest					
Company: L. W. Kirby					
By:					
Printed Name:					
Title:		This AFE is only an estimate. By signing you agree to pay your share			
Date:		of the actual costs incurred.			

COG OPERATING LLC			
AUTHORITY FOR EXPENDITURE			
DRILLING			
WELL NAME: FASCINATOR FED COM 603H		PROSPECT NAME: BULLDOG 717008	
SHL:	210 FNL & 950 FWL	STATE & COUNTY:	New Mexico, Lea
BHL:	200 FSL & 950 FWL	OBJECTIVE:	DRILL AND COMPLETE
FORMATION:	WOLFBONE POOL	DEPTH:	22,400
LEGAL:	SEC 30-31 T24S-R35E	TVD:	12,640

INTANGIBLE COSTS		Drig - Rig		Tank Btty		Pmpg		TOTAL	
		Release(D)	Completion(C)	Constrctn(TB)	Equipment(PEQ)				
Title/Curative/Permit	201	11,000							11,000
Insurance	202	4,000	302						4,000
Damages/Right of Way	203	5,000	303	351					5,000
Survey/Stake Location	204	6,000		352					6,000
Location/Pits/Road Expense	205	120,000	305	10,000	353	31,000	366		161,000
Drilling / Completion Overhead	206	11,100	306						11,100
Turnkey Contract	207	0	307	1,397,000					1,397,000
Footage Contract	208	0	308	781,000					781,000
Daywork Contract	209	820,000	309	1,177,000					1,997,000
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Fuel & Power	211	211,000	311	5,000	354		367		216,000
Water	212	60,000	312	855,000			368		915,000
Bits	213	133,200	313	4,500			369		137,700
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 (Kickoff Plug)	220	0					371		0
Float Equipment & Centralizers	221	45,000							45,000
Casing Crews & Equipment	222	60,000							60,000
Fishing Tools & Service	223	0	323				372		0
Geologic/Engineering	224	0	324	355			373		0
Contract Labor	225	5,500	325	8,200	356	72,000	374	6,500	92,200
Company Supervision	226	66,600	326	15,000	357		375		81,600
Contract Supervision	227	124,000	327	204,000	358		376	5,000	333,000
Testing Casing/Tubing	228	20,000	328	10,000			377		30,000
Mud Logging Unit	229	52,000	329						52,000
Logging	230	0					378		0
Perforating/Wireline Services	231	4,000	331	515,000			379		519,000
Stimulation/Treating			332	397,000			380		397,000
Completion Unit			333	138,000			381	10,000	148,000
Swabbing Unit			334				382		0
Rentals-Surface	235	190,000	335	310,000	359		383	7,000	507,000
Rentals-Subsurface	236	150,000	336	55,000			384		205,000
Trucking/Forklift/Rig Mobilization	237	120,000	337	20,000	360		385	3,000	143,000
Welding Services	238	4,000	338	5,000	361		386		9,000
Water Disposal	239	0	339	60,000	362	135,000	387		195,000
Plug to Abandon	240	0	340						0
Seismic Analysis	241	0	341						0
Miscellaneous	242	0	342				389		0
Contingency	243	63,000	343	250,000	363		390		313,000
Closed Loop & Environmental	244	330,000	344	5,000	364		388		335,000
Coil Tubing			346	462,000					462,000
Flowback Crews & Equip			347	325,000					325,000
Offset Directional/Frac	248	0	348	48,000					48,000
TOTAL INTANGIBLES		3,506,400		7,231,700		238,000		31,500	11,007,600
TANGIBLE COSTS									
Surface Casing	401	73,000							73,000
Intermediate Casing	402	421,000							421,000
Production Casing/Liner	403	433,000							433,000
Tubing			504	47,300			530	10,000	57,300
Wellhead Equipment	405	75,000	505	22,000			531	3,000	100,000
Pumping Unit				0			506	98,000	98,000
Prime Mover				0			507		0
Rods				0			508	65,000	65,000
Pumps-Sub Surface (BH)			509				532	5,500	5,500
Tanks					510	35,800			35,800
Flowlines					511	85,000			85,000
Heater Treater/Separator					512	159,465			159,465
Electrical System					513	60,000	533	20,000	80,000
Packers/Anchors/Hangers	414	0	514	66,000			534	2,000	68,000
Couplings/Fittings/Valves	415	0			515	76,000			76,000
Dehydration					517				0
Injection Plant/CO2 Equipment					518				0
Pumps-Surface					521	6,250			6,250
Instrumentation/SCADA/POC					522		529	7,000	7,000
Miscellaneous	419	0	519		523		535	3,000	3,000
Contingency	420	0	520		524		536		0
Meters/LACT					525	29,150			29,150
Flares/Combusters/Emission					526	15,000			15,000
Gas Lift/Compression			527	15,000	516	75,000	528		90,000
TOTAL TANGIBLES		1,002,000		150,300		541,665		213,500	1,907,465
TOTAL WELL COSTS		4,508,400		7,382,000		779,665		245,000	12,915,065

	% of Total Well Cost	35%	57%	6%	2%
COG Operating LLC					
<hr/>		Date Prepared: 3/27/2018 for proposal			
		COG Operating LLC			
We approve:					
_____% Working Interest		By: PWS			
Company: <b>Barney L. Alsobrook</b>					
By: <hr/>					
Printed Name: <hr/>					
Title: <hr/>					
Date: <hr/>		This AFE is only an estimate. By signing you agree to pay your share of the actual costs incurred.			

COG OPERATING LLC					
AUTHORITY FOR EXPENDITURE					
DRILLING					
WELL NAME: FASCINATOR FED COM 603H			PROSPECT NAME: BULLDOG 717008		
SHL: 210 FNL & 950 FWL			STATE & COUNTY: New Mexico, Lea		
BHL: 200 FSL & 950 FWL			OBJECTIVE: DRILL AND COMPLETE		
FORMATION: WOLFBONE POOL			DEPTH: 22,400		
LEGAL: SEC 30-31 T24S-R35E			TVD: 12,640		

INTANGIBLE COSTS		Drig - Rig Release(D)		Completion(C)		Tank Btty Constrctn(TB)		Pmpg Equipment(PEQ)		TOTAL	
Title/Curative/Permit	201	11,000								11,000	
Insurance	202	4,000		302						4,000	
Damages/Right of Way	203	5,000		303		351				5,000	
Survey/Stake Location	204	6,000				352				6,000	
Location/Pits/Road Expense	205	120,000		305	10,000	353	31,000	366		161,000	
Drilling / Completion Overhead	206	11,100		306						11,100	
Turnkey Contract	207	0		307	1,397,000					1,397,000	
Footage Contract	208	0		308	781,000					781,000	
Daywork Contract	209	820,000		309	1,177,000					1,997,000	
Directional Drilling Services	210	398,000		310	150,000					548,000	
Fuel & Power	211	211,000		311	5,000	354		367		216,000	
Water	212	60,000		312	855,000			368		915,000	
Bits	213	133,200		313	4,500			369		137,700	
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 (Kickoff Plug)	220	0						371		0	
Float Equipment & Centralizers	221	45,000								45,000	
Casing Crews & Equipment	222	60,000								60,000	
Fishing Tools & Service	223	0		323				372		0	
Geologic/Engineering	224	0		324		355		373		0	
Contract Labor	225	5,500		325	8,200	356	72,000	374	6,500	92,200	
Company Supervision	226	66,600		326	15,000	357		375		81,600	
Contract Supervision	227	124,000		327	204,000	358		376	5,000	333,000	
Testing Casing/Tubing	228	20,000		328	10,000			377		30,000	
Mud Logging Unit	229	52,000		329						52,000	
Logging	230	0						378		0	
Perforating/Wireline Services	231	4,000		331	515,000			379		519,000	
Stimulation/Treating				332	397,000			380		397,000	
Completion Unit				333	138,000			381	10,000	148,000	
Swabbing Unit				334				382		0	
Rentals-Surface	235	190,000		335	310,000	359		383	7,000	507,000	
Rentals-Subsurface	236	150,000		336	55,000			384		205,000	
Trucking/Forklift/Rig Mobilization	237	120,000		337	20,000	360		385	3,000	143,000	
Welding Services	238	4,000		338	5,000	361		386		9,000	
Water Disposal	239	0		339	60,000	362	135,000	387		195,000	
Plug to Abandon	240	0		340						0	
Seismic Analysis	241	0		341						0	
Miscellaneous	242	0		342				389		0	
Contingency	243	63,000		343	250,000	363		390		313,000	
Closed Loop & Environmental	244	330,000		344	5,000	364		388		335,000	
Coil Tubing				346	462,000					462,000	
Flowback Crews & Equip				347	325,000					325,000	
Offset Directional/Frac	248	0		348	48,000					48,000	
TOTAL INTANGIBLES		3,506,400			7,231,700		238,000		31,500	11,007,600	

TANGIBLE COSTS									
Surface Casing	401	73,000							73,000
Intermediate Casing	402	421,000							421,000
Production Casing/Liner	403	433,000							433,000
Tubing			504	47,300			530	10,000	57,300
Wellhead Equipment	405	75,000	505	22,000			531	3,000	100,000
Pumping Unit				0			506	98,000	98,000
Prime Mover				0			507		0
Rods				0			508	65,000	65,000
Pumps-Sub Surface (BH)			509				532	5,500	5,500
Tanks					510	35,800			35,800
Flowlines					511	85,000			85,000
Heater Treater/Separator					512	159,465			159,465
Electrical System					513	60,000	533	20,000	80,000
Packers/Anchors/Hangers	414	0	514	66,000			534	2,000	68,000
Couplings/Fittings/Valves	415	0			515	76,000			76,000
Dehydration					517				0
Injection Plant/CO2 Equipment					518				0
Pumps-Surface					521	6,250			6,250
Instrumentation/SCADA/POC					522		529	7,000	7,000
Miscellaneous	419	0	519		523		535	3,000	3,000
Contingency	420	0	520		524		536		0
Meters/LACT					525	29,150			29,150
Flares/Combusters/Emission					526	15,000			15,000
Gas Lift/Compression			527	15,000	516	75,000	528		90,000
TOTAL TANGIBLES		1,002,000		150,300		541,665		213,500	1,907,465
TOTAL WELL COSTS		4,508,400		7,382,000		779,665		245,000	12,915,065

	% of Total Well Cost	35%	57%	6%	2%
COG Operating LLC					
<div></div>		Date Prepared: 3/27/2018 for proposal			
We approve:		COG Operating LLC			
% Working Interest		By: PWS			
Company: Flatland Mineral Fund, LP					
By:					
Printed Name:					
Title:					
Date:		This AFE is only an estimate. By signing you agree to pay your share of the actual costs incurred.			



April 13, 2018

US Certified Mail No. 91 7199 9991 7038 1571 5373

Scratch Properties, LLC  
PO BOX 1287  
Artesia, NM 88211

**Re: Well Proposal – Fascinator Federal Com 604H**

Sec 30: Lots 1-4 - T24S-R35E

Sec 31: Lots 1-4 - T24S-R35E

SHL: 210' FNL/ 360' FWL, or a legal location in Sec 30 (Lot 1)

BHL: 200' FSL/ 450' FWL, or a legal location in Sec 31 (Lot 4)

Lea County, New Mexico

Dear Sir/Madam:

COG Operating LLC ("COG"), as Operator, hereby proposes to drill the Fascinator Federal Com 604H 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 12,649' and a MD of approximately 22,500' to test the Wolfbone Pool ("Operation"). The total cost of the Operation is estimated to be \$12,915,065, 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 covers Sec 30: Lots 1-4 - T24S-R35E and Sec 31: Lots 1-4 - T24S-R35E. 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 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 proposes to acquire your interest via term assignment. It has the following general provisions:

- 3 year primary term
- Delivering a 75% NRI, proportionately reduced
- \$2,000 per net acre bonus consideration

The Term Assignment offer expires 5 p.m., Central Time, June 13, 2018, and it 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 contact the undersigned at (432) 685-2588 Mflanagan@concho.com.

Respectfully,

*Megan L. Tipton*

Megan Tipton  
Landman

\_\_\_\_\_ I/We hereby elect to participate in the Fascinator Federal Com 604H.

\_\_\_\_\_ I/We hereby elect not to participate in the Fascinator Federal Com 604H.

Company: \_\_\_\_\_

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



April 13, 2018

US Certified Mail No. 91 7199 9991 7038 7698 1519

Burlington Resources Oil and Gas Company, LP  
REAL PROPERTY ADMINISTRATION  
PO BOX 7500  
Bartlesville, OK 74005

**Re: Well Proposal – Fascinator Federal Com 604H**

Sec 30: Lots 1-4 - T24S-R35E

Sec 31: Lots 1-4 - T24S-R35E

SHL: 210' FNL/ 360' FWL, or a legal location in Sec 30 (Lot 1)

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

Please indicate your 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 lease your minerals under the following general terms:

- Bonus of \$2,000 /Net Mineral Acre
- 3 Year Primary Term
- 25% Royalty Interest

The Lease 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 contact the undersigned at (432) 685-2588 Mflanagan@concho.com.

Respectfully,

*Megan L. Tipton*

Megan Tipton  
Landman

\_\_\_\_\_ I/We hereby elect to participate in the Fascinator Federal Com 604H.

\_\_\_\_\_ I/We hereby elect not to participate in the Fascinator Federal Com 604H.

Company: \_\_\_\_\_

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_