

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
1558 M. Franch Br., Mohhm, NMC 888240
Phone (876) 265-5611 Pair (876) 265-5750
DISTRICT II
611 S. First St., Artesia, NMC 86210
Phone (876) 745-1263 Fraz (876) 745-5770
DISTRICT III
1000 Bio Breasos B4., Astoc, NMC 87410
Phone (876) 284-5170

DISTRICT IV

State of New Mexico Energy, Minerals and Natural Resources Department Form C-102 Revised August 1, 2011

Submit one copy to appropriate

OIL CONSERVATION DIVISION 1226 South St. Francis Dr.

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	Prop	erty Name	Well Number
	FASCINATO	DR FED COM	601H
OGRID No.	Oper	ator Name	Elevation
	COG OPE	RATING, LLC	3346'

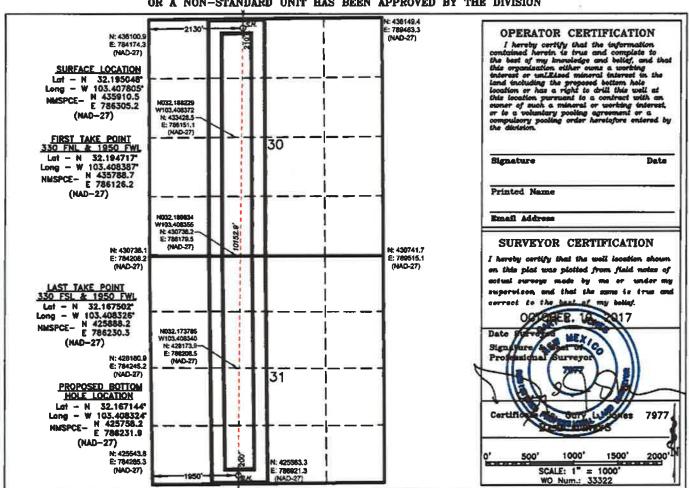
Surface Location

UL or lot No.	Section	Township	Renge	Lot Idn	Feet from the	North/South line	Foot 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 31	Township 24 S	Range 35 E	Lot Ida	Feet from the	North/South line SOUTH	Feet from the 1950	East/West line WEST	County
Dedicated Acre			asolidation (Code Ore	der No.	19			

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) 393-6161 Fax: (575) 393-0720 BISTRICT II 811 S. First St., Artesia, NM 88210 Phone (575) 748-1283 Fax: (576) 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 67505 Phone (505) 476-3460 Fax: (505) 476-3462

API Number

State of New Mexico Energy, Minerals and Natural Resources D

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Pool Name

OIL CONSERVATION DIVISION 1226 South St. Francis Dr.

Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Code

Joint or Infill Consolidation Code

☐ AMENDED REPORT

			·				1001 Nume			
Property	Code				Property Nan	ne		Well No	ımber	
				FAS	CINATOR FE	D COM		60	2H	
OGRID N	0.				Operator Nam	ne		Elevation		
				CO	G OPERATIN	G, LLC		335	9'	
					Surface Loc	ation				
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
С	30	24 S	35 E		210	NORTH	1480	WEST	LEA	
	7.		Bottom	Hole Loc	ation If Diffe	erent From Sur	face			
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	

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

Order No.

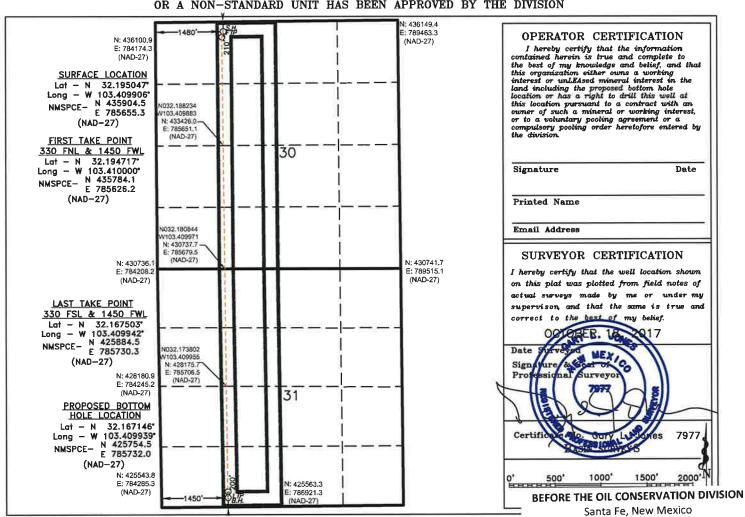


Exhibit No. 2 Submitted by: COG OPERATING LLC Hearing Date: July 26, 2018 Case Nos. 16219 & 16220

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 Phone (575) 393-6161 Fax: (578) 393-0720 DISTRICT II
811 S. First St., Artesia, NM 88210
Phoma (675) 748-1283 Page (675) 748-9720

DISTRICT IV 26 S. St. Francis Dr., Santa Fe, NM 87505 one (505) 476-3460 Fax: (505) 476-3462

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone (605) 334-6178 Fax: (606) 334-8170

State of New Mexico Energy, Minerals and Natural Resources D Department

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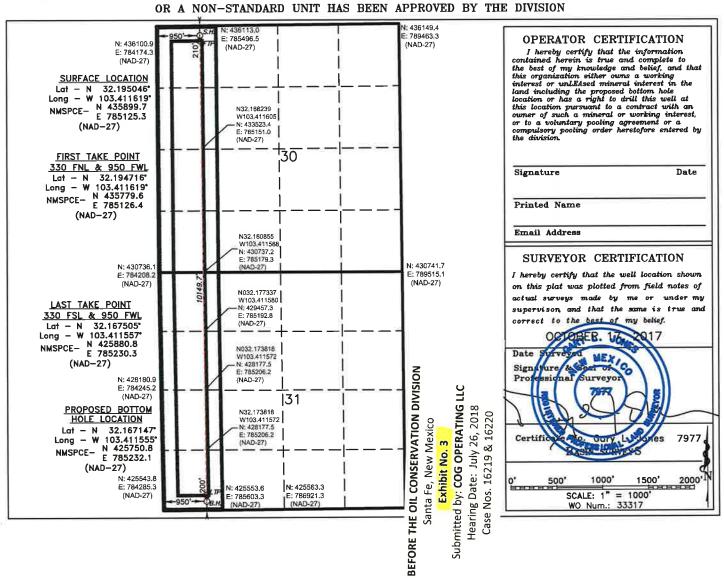
OIL CONSERVATION DIVISION 1226 South St. Francis Dr. Santa Fe, New Mexico 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API	Number		1	Pool Code			Pool Name		
Property (Code			FAS	Property Nam SCINATOR FE			Well Nu	
OGRID No	о.			CO		Elevation 3371'			
					Surface Loca	ation			
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	950	WEST	LEA
			Bottom	Hole Loc	ation If Diffe	rent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
М	31	24 S	35 E		200	SOUTH	950	WEST	LEA

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 Phone (575) 393-6161 Fax: (575) 393-0720 DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (675) 748-1283 Fex: (575) 748-9720

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone (505) 334-6178 Fax: (505) 334-6170

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

31 | 24 S | 35 E |

Consolidation Code

Joint or Infill

State of New Mexico Energy, Minerals and Natural Resources Department

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WEST

LEA

OIL CONSERVATION DIVISION 1226 South St. Francis Dr.

Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

□ AMENDED REPORT

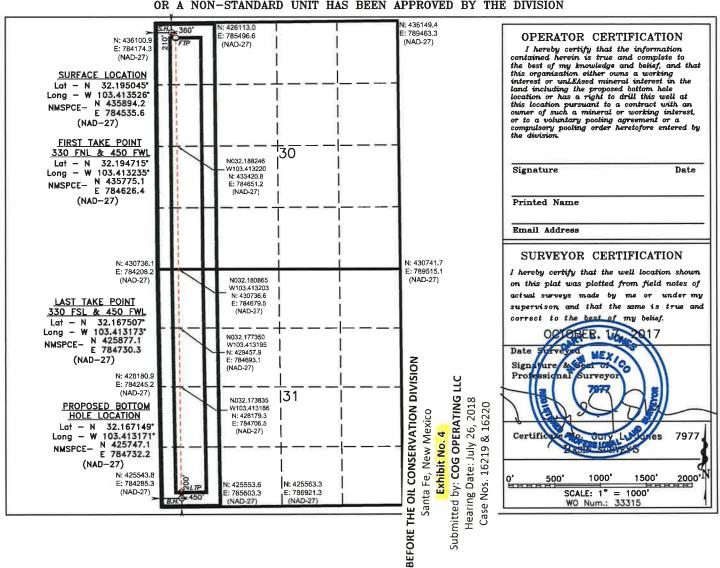
API	Number		1	Pool Code			Pool Name		
Property	Code			FΔS	Property Nai SCINATOR FE			Well No	
OGRID N	о.				Elevar	tion			
. ti					Surface Loc	ation			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	30	24 S	35 E		210	NORTH	360	WEST	LEA
120			Bottom	Hole Loc	ation If Diff	erent From Sur	face		-
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

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

200

SOUTH

450



DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (576) 383-0161 Fax: (576) 393-0720
DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax: (575) 748-9720

Phone (675) 748-1223 Fax: (575) 748-9720 DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone (605) 334-6170

DISTRICT IV 1226 S. St. Francis Dr., Santa Fe, NM 87506 Phone (505) 476-3480 Fax: (506) 476-3482 State of New Mexico
Energy, Minerals and Natural Resources Department

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OIL CONSERVATION DIVISION

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

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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Poo	Pool Name		
Property Code	_	erty Name	Well Number		
ACRED N		OR FED COM	701H		
OGRID No.	-	ator Name RATING, LLC	Elevation 3345'		

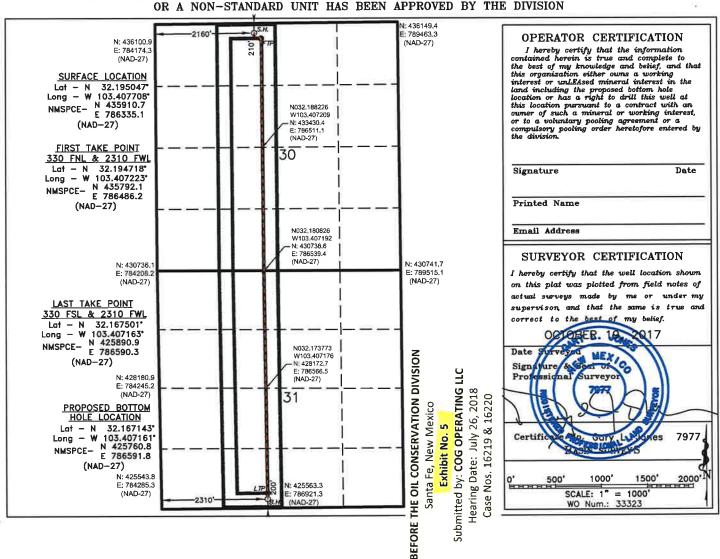
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
l 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 Acre	g Joint o	r Infill Con	nsolidation	Code Ore	ler No.				

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1625 N. French Dr., Hobbs, NM 88240
Phome (575) 393-6161 Fax: (576) 393-0720
DISTRICT II
811 S. First St., Artesia, NM 88210
Phome (575) 748-1253 Fax: (576) 748-9720
DISTRICT III

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone (806) 334-6170 Fax: (806) 334-6170

DISTRICT IV 1228 S. St. Francis Dr., Santa Fe, NM 87505 Phone (606) 478-3480 Fax: (505) 478-3462 State of New Mexico Energy, Minerals and Natural Resources Department

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OIL CONSERVATION DIVISION

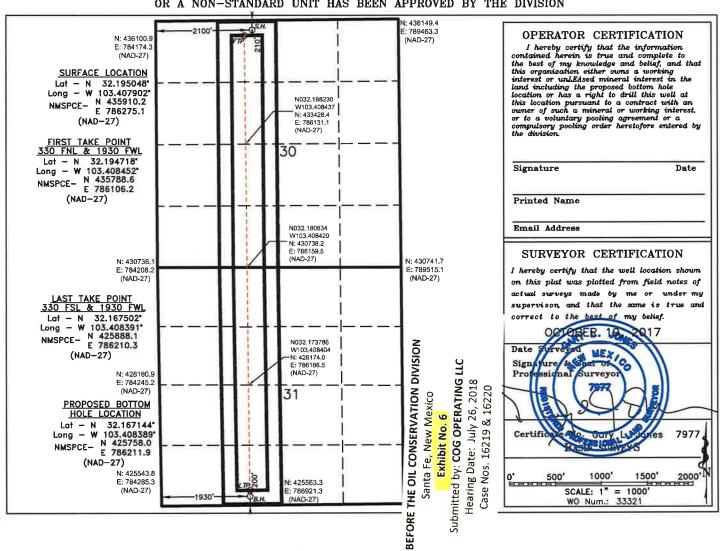
1226 South St. Francis Dr. Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API	Number]	Pool Code			Pool Name			
Property (Code			FAS	Property Nam SCINATOR FE			Well Number 702H		
OGRID N	o.		Operator Name COG OPERATING, LLC					Elevat 334		
					Surface Loca	ation				
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
С	30	24 S	35 E		210	NORTH	2100	WEST	LEA	
			Bottom	Hole Loc	eation If Diffe	rent From Sur	face			
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 Acre	Joint o	r Infill Con	nsolidation (Code Ore	der No.					

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1000 Rio Brazos Rd., Aztec, NM 87410 Phone (606) 334-6178 Fax: (505) 334-6170

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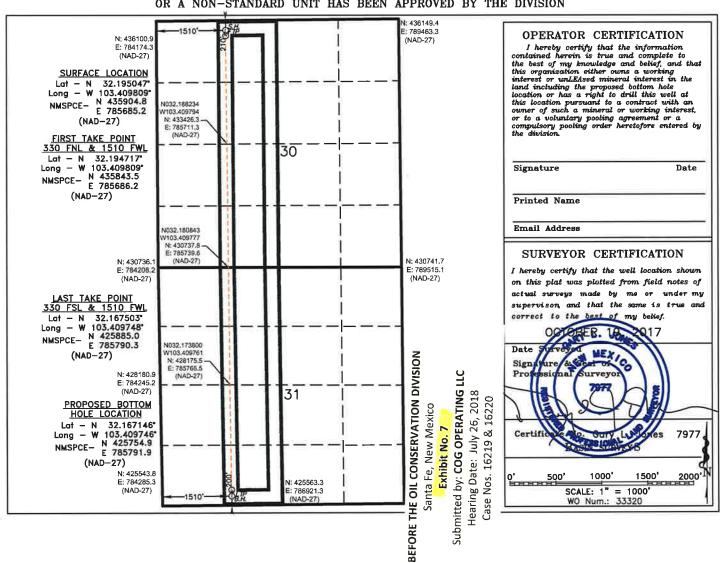
OIL CONSERVATION DIVISION 1226 South St. Francis Dr.

☐ AMENDED REPORT

Santa Fe, New Mexico 87505

none (000) 470-3400 I	No. Section Towns 30 24 No. Section Towns 31 24		WELL LO	CATION	AND A	CREA	GE DEDICATION	ON PLAT	□ AMENDED	REPORT
API	Number		1	Pool Code				Pool Name		
Property	Code			FAS	Proper SCINATO	rty Nam R FEI			Well No.	
OGRID N	D.			CC	Operat OG OPER	or Nam RATIN(Elevation 3358'	
					Surfac	e Loca	ntion			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from	n the	North/South line	Feet from the	East/West line	County
С	30	24 S	35 E		210	0	NORTH	1510	WEST	LEA
			Bottom	Hole Lo	cation If	Diffe	rent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from	n the	North/South line	Feet from the	East/West line	County
N	31	24 S	35 E		200	0	SOUTH	1510	WEST	LEA
Dedicated Acre	s Joint o	r Infill C	onsolidation (Code Or	der No.					

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DISTRICT I DIDITATUL 1 1025 N. French Dr., Hobbs, NM 88240 Phome (676) 583-6161 Fax (576) 593-0720 DISTRICT II 811 S. First St., Artesia, NM 86210 Phome (676) 748-1283 Fax (676) 748-9720 DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone (605) 334-8178 Fax: (605) 334-8170 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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Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

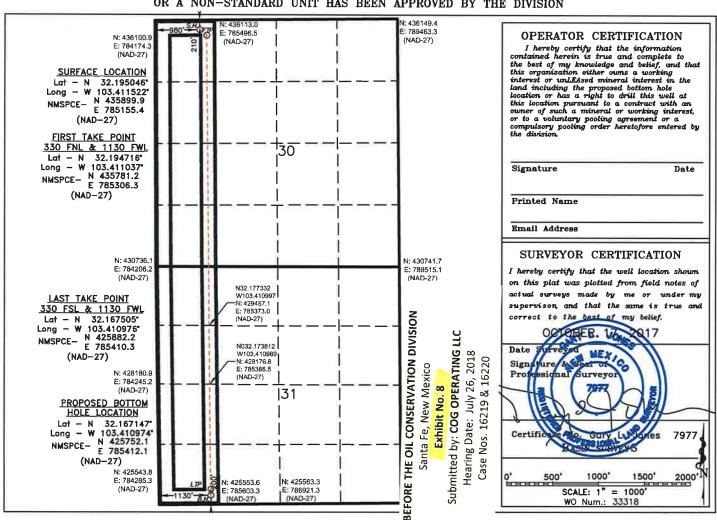
FASCINATOR FED COM OGRID No. Operator Name Ele	API Number	Pool Code		Pool Name		
OGRID No. Operator Name Ele	roperty Code	_	Well Number			
oportion Name		FASCINATO	704H			
	OGRID No.	•		Elevati 3370		
Surface Location		Surfac	e Location			

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 Acre	g Joint of	r Infill Co	nsolidation	Code Or	der No.				

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DISTRICT I 1625 N. French Dr., Hobbs, NM 86240 Phone (675) 393-6161 Fax: (575) 393-0720 DISTRICT II 811 S. First St., Artesia, NM 88210 Phone (575) 748-1283 Fax: (575) 748-9720

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone (505) 334-5178 Fax: (505) 334-5170

DISTRICT IV S. St. Francis Dr., Santa Fe, NM 87505 (505) 476-3460 Fax: (505) 476-3462 State of New Mexico Energy, Minerals and Natural Resources D

Form C-102 Revised August 1, 2011

OIL CONSERVATION DIVISION 1226 South St. Francis Dr.

Santa Fe, New Mexico 87505

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WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name		
Property Code		L erty Name DR FED COM	Well Number 705H	
OGRID No.	-	ator Name RATING, LLC	Elevation 3371'	

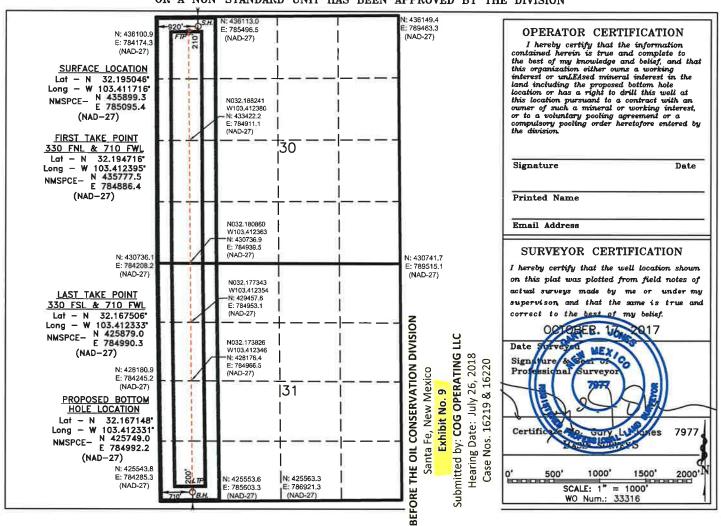
Surface Location

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	920	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
М	31	24 S	35 E		200	SOUTH	710	WEST	LEA
Dedicated Acre	g Joint o	r Infill	Consolidation	Code Or	der No.				

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DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 Phone (575) 393-6161 Fax (575) 393-0720 DISTRICT II 811 S. First St., Artesia, NM 88210 Phone (676) 748-1283 Fax: (676) 748-9720

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone (605) 334-8178 Fax: (606) 334-6170

DISTRICT IV 126 S. St. Francis Dr., Santa Fe, NM 87505 100s (505) 478-3460 Fax: (505) 476-3462 State of New Mexico Energy, Minerals and Natural Resources Department

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OIL CONSERVATION DIVISION 1226 South St. Francis Dr.

Santa Fe, New Mexico 87505

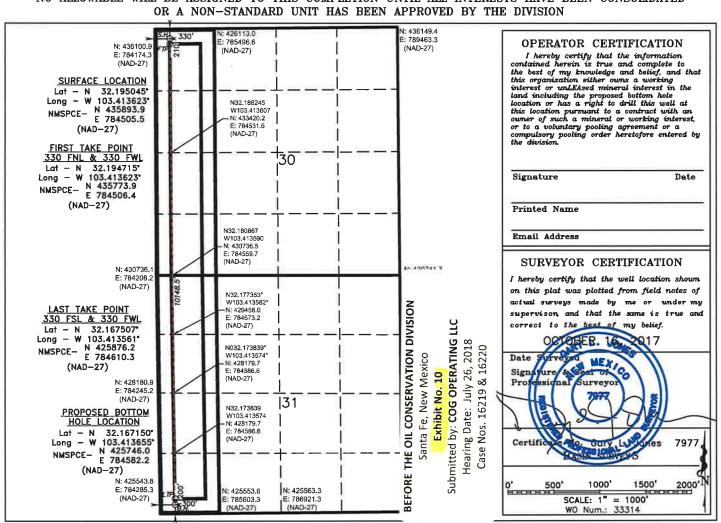
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WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number				Pool Code			Pool Name			
Property Code					Property Name FASCINATOR FED COM				Well Number 706H	
OGRID N	D.		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	
			${\bf Bottom}$	Hole Loc	cation If Diffe	erent From Sur	face			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
М	31	24 S	35 E		200	SOUTH	330	WEST	LEA	
Dedicated Acre	Joint o	r Infill Co	nsolidation (Code Or	der No.		-			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



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

	TRACT 1 E/2NW/4 80 AC.	
30	TRACT 2 E/2SW/4 80 AC.	
31	TRACT 3 E/2NW/4 80 AC.	
	TRACT 4 NE/4SW/4 40 AC.	
	TRACT 5 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)

COG Operating LLC	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%
Chevron U.S.A. Inc.	12.500000%
Total	100.000000%

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

Advance Energy Partners, LLC	28.445890%
Oxy USA Inc.	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%
The Estate of Barney L. Alsobrook, deceased	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%
The Estate of Bob Mason, dec.	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%
Marathon Oil Permian LLC	9.531250%
Advance Energy Partners	7.111473%
Oxy USA Inc.	17.888528%
Energen Resources Corporation	4.928646%
Jetstream New Mexico MFTC, LLC	0.800000%
BEXP I, LP	1.093750%
MRC Permian Company	1.093750%
Energex, LLC	0.218750%
Chevron U.S.A. Inc.	3.125000%
Burlington Resources Oil & Gas Company, LP	6.250000%
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%
Charlotte Garza	0.066667%
The Estate of L.W. Kirby, deceased	1.093750%
The Estate of Barney L. Alsobrook, deceased	1.093750%
The Estate of Bob Mason, dec.	0.088889%
Total:	100.00000%

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

TRACT 1 Lots 1, 2 80.54 AC.		
TRACT 2 Lots 3, 4 80.58 AC.		30
TRACT 3 Lot 1 40.31 AC.	,	31
TRACT 4 Lots 2, 4 40.73 AC.		
TRACT 5 Lot 3 40.36 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)

COG Operating LLC	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%
Chevron U.S.A. Inc.	12.500000%
Total	100.000000%

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

Oxy USA Inc.	71.554110%
Total	100.000000%

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

COG Operating LLC	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%
The Estate of Barney L. Alsobrook, deceased	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%
Marathon Oil Permian LLC	8.525960%
Oxy USA Inc.	8.943154%
Advance Energy Partners, LLC	<i>3.555295%</i>
BEXP I, LP	1.094971%
Energen Resources Corporation	0.195531%
Energex, LLC	0.218614%
MRC Permian Company	1.094971%
Chevron U.S.A. Inc.	3.123062%
Burlington Resources Oil & Gas Company, LP	6.256976%
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%
The Estate of L.W. Kirby, deceased	1.094971%
The Estate of Barney L. Alsobrook, deceased	1.094971%
Total:	100.000000%

Interest seeking to Compulsory Pool

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 a	L. Tipton
Megan Tipton Landman	
	I/We hereby elect to participate in the Fascinator Federal Com 601H. I/We hereby elect <u>not</u> to participate in the Fascinator Federal Com 601H.
Company:	
Ву:	

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

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- 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.

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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 <u>not</u> to participate in the Fascinator Federal Com 601H.
Company:	
Date:	

 WELL NAME:
 FASCINATOR FED COM 601H

 SHL:
 210 FNL & 2130 FWL

 BHL:
 200 FSL & 1950 FWL

 FORMATION:
 WOLFBONE POOL

 LEGAL:
 SEC 30-31 T24S-R35E
 PROSPECT NAME: STATE & COUNTY: OBJECTIVE: DEPTH: TVD: BULLDOG 717008 New Mexico, Lea
DRILL AND COMPLETE
22,400
12,612

NTANGIBLE COSTS itte/Curative/Permit	201	Drlg - Rig Release(D)		Completion(C)		Tank Btty Constrctn(TB)		Pmpg Equipment(PEQ)	<u>TOTAL</u>
nsurance	202		02						4,0
amages/Right of Way	203		03		351				5,0
urvey/Stake Location	204	6,000			352				6,0
cation/Pits/Road Expense	205	120,000 3	05	10,000	353	31,000	366		161,0
illing / Completion Overhead	206	11,100 3	06						11,
ımkey Contract	207	0 3	07	1,397,000					1,397,
ootage Contract	208	0 3	80	781,000					781,
aywork Contract	209	820,000 3	09	1,177,000					1,997,
rectional Drilling Services	210	398,000 3	10	150,000					548,
uel & Power	211	211,000 3	11	5,000	354		367		216,
fater fater	212	60,000 3	12	855,000			368		915,
ts	213	133,200 3	13	4,500			369		137
ud & Chemicals	214	275,000 3	14	25,000			370		300
ill Stern Test	215	0 3	115						
oring & Analysis	216	0	- ji						
ement Surface	217	28,000							28,
ement Intermediate	218	75,000							75,
ement 2nd Intermediate/Production	219	115,000							115
ement Squeeze & Other (Kickoff Plug)	220	0	0				371		
oat Equipment & Centralizers	221	45,000							45
asing Crews & Equipment	222	60,000	1						60
shing Tools & Service	223		23				372		
eologic/Engineering	224		24		355		373		
ontract Labor	225		325	8,200	356	72,000	374	6,500	92
ompany Supervision	226		326	15,000	357	12,000	375	0,500	81
ontract Supervision	227		327	204,000	358		376	5,000	333
	228		328	10,000	550	-	377	5,000	30
esting Casing/Tubing lud Logging Unit	229		329	10,000			011		52
	230	32,000 3					378		- 52
ogging	_		331	515,000			379	×	519
erforating/Wireline Services	231			397,000			380	- 3	
timulation/Treating	1.		332					10,000	397 148
ompletion Unit	0;=		333	138,000			381	10,000	
wabbing Unit			334	040.000	050		382	7.000	
entals-Surface	235		335	310,000	359		383	7,000	507
entals-Subsurface	236		336	55,000			384		205
rucking/Forklift/Rig Mobilization	237		337	20,000	360		385	3,000	143
Velding Services	238		338	5,000	361		386		9
Vater Disposal	239		339	60,000	362	135,000	387		195
lug to Abandon	240		340						
eismic Analysis	241		341						
fiscellaneous	242	0 3	342				389		
ontingency	243		343	250,000	363		390		313
losed Loop & Environmental	244		344	5,000	364		388		335
oil Tubing	_	3	346	462,000					462
lowback Crews & Equip		3	347	325,000					325
Offset Directional/Frac	248	0 3	348	48,000					48
TOTAL INTANGIBLES	_	3,506,400		7,231,700		238,000		31,500	11,007
ANGIBLE COSTS									
urface Casing	401	73,000				المستريا للسلامي			73
ntermediate Casing	402	421,000							421
roduction Casing/Liner	403	433,000			i.				433
ubing	Ī		504	47,300	771 201		530	10,000	57
Vellhead Equipment	405		505	22,000			531	3,000	100
umping Unit	1			0			506	98,000	98
rime Mover	ī			0	•);		507		
ods	1			0			508	65,000	- 65
umps-Sub Surface (BH)	7		509	-	13		532	5,500	
anks	Ì				510	35,800			35
lowlines	-				511				85
eater Treater/Separator	-				512				159
lectrical System					513		533	20,000	8
ackers/Anchors/Hangers	414	0 5	514	66,000	-		534	2,000	- 6
couplings/Fittings/Valves	415	0		55,500	515	76,000			70
ehydration	-1.0				517				
jection Plant/CO2 Equipment	·				518				
	-				521				
umps-Surface strumentation/SCADA/POC	0 4				522		529	7,000	
	419	0 5	519		523		535		
iscellaneous			520	-	524		536		
ontingency	420	0.0	520		525		550		2
leters/LACT				the state of the s	-				1
lares/Combusters/Emission			En-	45.000	526		500		9
Sas Lift/Compression			527	15,000	-		528		1,90
TOTAL TANCIDI ED	a :	1,002,000		150,300	-	541,665		213,500 245,000	12,91
TOTAL TANGIBLES		4,508,400		7,382,000	-	779,665		245,000	12,91
TOTAL WELL COSTS									
	•	35%		57%	,	6%		2%	

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, $\ensuremath{\mathsf{N}}$

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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- \$2,000 per net acre bonus consideration

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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. 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 d	C. 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:	
Ву:	
Name:	

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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- COG Operating LLC named as Operator

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Respectfully,	
Megan	L. Tipton
Megan Tipton Landman	
	I/We hereby elect to participate in the Fascinator Federal Com 602H.
	I/We hereby elect <u>not</u> to participate in the Fascinator Federal Com 602H.
Company:	
Ву:	
Name:	
Title:	
Date:	

 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

201 202 203	11,000 4,000	302						11
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	5,000	303		351				
-		303						
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-								1,397
								781
209	820,000	309	1,177,000					1,997
210	398,000	310	150,000					548
211	211,000	311	5,000	354		367		216
212	60,000	312	855,000			368		915
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220	0					371		
221	45,000							4
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230	0					378		
231	4,000	331	515,000			379		51
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				309			7,000	
		17.7						20
		100					3,000	14
238	4,000	338	5,000	361		386		
239	0	339	60,000	362	135,000	387		19
240	0	340						
241	0	341						
		100				389		
			250,000	363				31
		55					-	33
244	330,000			304		300		46
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		• /						32
248		348						
	3,506,400	3	7,231,700		238,000		31,500	11,00
401	73,000							
402	421,000	3						42
403	433,000							43
			47,300			530	10,000	
405	75.000							1
400	70,000							
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1 11			- 00,000	515	76,000		2,500	
410	0							
				521				
				522	2	529	7,000	
419	0	519		523	3	535	3,000	
420	0	520		524	4	536		
				•				
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		507	45 000			500		
				516		೨∠೮	040.500	
		-						1,9
	4,508,400	1	7,382,000		779,665		245,000	12,9
	35%		57%		6%		2%	
	Date Prepared:	3/27	/2018 for proposal	9				
	COG Operating LLC							
	206	206	206	206	206	11,100 366 367 387,000 368 369	11,100 306	11,000 308

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

Company: By:

Printed Name: Title: Date:



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").

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

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- \$2,000 per net acre bonus consideration

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Exhibit No. 15
Submitted by: COG OPERATING LLC
Hearing Date: July 26, 2018
Case Nos. 16219 & 16220

Respectfully,	
Megan ö	C. Tipton
Megan Tipton Landman	
	I/We hereby elect to participate in the Fascinator Federal Com 603H. I/We hereby elect <u>not</u> to participate in the Fascinator Federal Com 603H.
Company:	
Ву:	_
Name:	
Title:	
Date:	

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

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

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- 3 Year Primary Term
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Respectfully,	
Megan	L. Tipton
Megan Tipton Landman	
	I/We hereby elect to participate in the Fascinator Federal Com 603H.
	I/We hereby elect <u>not</u> to participate in the Fascinator Federal Com 603H.
Company:	
Ву:	

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

 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

Treatment of the property of t	NTANGIBLE COSTS		<u>Drlg - Rig</u> Release(D)		Completion(C)		Tank Btty Constrctn(TB)		Pmpg Equipment(PEQ)	TOTAL
Second Comment	tle/Curative/Permit	201	11,000							11,
Proceedings				,						4,
Section Profession Company C		-		303						5,
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many Coronal		- >: :-			10,000	353	31,000	366		161
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## A Charmonals		-				334				915
## A Commonant									i	137
Signer Text		_								300
Intrins Ashaylasis metal Intermediation 218 75,000 219 75,000 219 75,000 219 75,000 219 75,000 219 75,000 219 75,000 229 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		— :			20,000			310		
mem Strafea 27 28,000				0.0						
Trigonome Trig										28
Internate Content Sugeres & Chicker Frequency 20		_								75
Images September 1900 22 0 0 0 0 0 0 0 0					C - C - C - C - C - C - C - C - C - C -					115
and Equipment & CertainSurers 221 5,000								371		113
Selection										45
sinker Jones & Servictor 223 0 333 5 50 5 373 7										60
Description of the property				323			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	372		
Imministration 25 5.00 35 5.00 36 72.00 74 6.00 1 1 1 1 1 1 1 1 1						355				-
		—			8.200		72.000		6,500	92
Interest Supervision 227 12 4000 367 20 4000 358 376 5.000 30 30 30 30 30 30 30 30 30 30 30 30										81
Sealing Casegor/Lishing 228 2,000 388 10,000									5,000	333
2009109 2009 378 378 378 378 378 379 589 589 378 379 589 379 589 379 589 379 589 379 589 379 589 389		228	20,000	328	10,000			377		30
## contracting Wireline Services 23	ud Logging Unit	229	52,000	329						52
Immunitating members 332 397,000 380 381 10,000 3 1 1 1 1 1 1 1 1 1	ogging	230	0					378		
Semilar Companies 333 138,000 381 10,000 10,0	erforating/Wireline Services	231	4,000	331	515,000			379		519
watching Unit 334 332 382 382 antitles Sufface 235 190,000 385 380 382 7,000 5 entitles Subsurface 236 150,000 386 55,000 384 2 2 2 2 100,000 387 20,000 385 3,000 387 1 386 380 380 380 380 380 380 380 380 380	imulation/Treating			332	397,000			380		397
### strains - Substrace 255 190.00 335 310.00 59 388 7.000 5 ### strains - Substrace 236 150.000 336 55.000 344 2 ### strains - Substrace 236 150.000 337 20.000 385 385 3.000 385 3.000 385 ### strains - Substrace 238 4.000 387 20.000 385 385 3.000 385 3.000 385 ### strains - Substrace 238 4.000 387 20.000 385 385 3.000 385 3.0	ompletion Unit			333	138,000			381	10,000	148
antials-Suburlance 266 150,000 336 55,000 384 22 20 20 20 30 385 3,000 20 20 20 20 20 20 20 20 20 20 20 20	wabbing Unit			334				382		
vacing-pro-institring Mobilization 237 120,000 330 385 3,000 1 letter Disposal 239 0,000 339 60,000 382 135,000 387 1 lage Abandron 240 0 340	entals-Surface	235	190,000	335	310,000	359		383	7,000	507
Melling Sarvices 238	entals-Subsurface	236	150,000	336	55,000			384		205
Tather Disposal 239	rucking/Forklift/Rig Mobilization	237	120,000	337	20,000	360		385	3,000	143
Ligit of Abardon		238	4,000	338	5,000	361		386		9.
Elemic Analysis 241	/ater Disposal	_			60,000	362	135,000	387		195
Sissellaneous	lug to Abandon	240								
Contingency 243 63,000 343 250,000 363 390 300 300 3000 3	eismic Analysis	241		341						
Seed Loop & Environmental 244 330,000 344 5,000 364 388		_								
Self-tubing										313
Second		244 -	330,000			364		388		335
Section Comparison Compar										462
ANGIBLE COSTS Wilder Casing		—: ·								325
ANGIBLE COSTS urface Casing		248 -		348			200,000		24.500	48
urface Casing 401 73,000 402 421,000 4	TOTAL INTANGIBLES		3,506,400		7,231,700		238,000		31,500	11,007
According the Casing According the Casing According to Casin	ANGIBLE COSTS									
Autoration Casing/Liner Autoration Casin	urface Casing									73
Self-lead Equipment Autor Self	termediate Casing									421
Sellhead Equipment	oduction Casing/Liner	403	433,000							433
Second State Seco									-	57
Second		405	75,000	505						100
Some content	1, 3			1					98,000	98
Sumps-Sub Surface (BH) Sumps-Surface (BH)		_ ,		,						
Sample		_ !			0					65
Solution				509		F.1-		532	5,500	5
Sector S										35
Sector System Sector System Sector System Sector System S		_ :		8 8						85
Ackers/Anchors/Hangers				0 s				522	00.000	159
ouplings/Fittings/Valves 415 0 515 76,000 ehydration 517 — jection Plant/CO2 Equipment 518 — umps-Surface 521 6,250 — strumentation/SCADA/POC 522 529 7,000 liscellaneous 419 0 519 523 535 3,000 ontingency 420 0 520 524 — 536 leters/LACT 525 29,150 536 — lares/Combusters/Emission 526 15,000 54 as Lift/Compression 527 15,000 516 75,000 528 TOTAL TANGIBLES 1,002,000 150,300 541,665 213,500 1,9		· ·			20.000	513	60,000			- 80
S17 S18 S19				•	66,000	E45	70,000	534	2,000	68
Strumentation/SCADA/POC Strumentation/SC		— ⁴¹⁵	0				/6,000			76
sumps-Surface 521 6,250 6,250 7,000 strumentation/SCADA/POC 522 529 7,000 iscellaneous 419 0 519 523 535 3,000 ontingency 420 0 520 524 536	-31/2/145 3.465	-		8 3						
strumentation/SCADA/POC 522 529 7,000 iscellaneous 419 0 519 523 535 3,000 ontingency 420 0 520 524 536										
decension on thingency 419 0 519 523 535 3,000 electers/LACT 525 524 536 536 decens/LACT 525 29,150 528 deres/Combusters/Emission 526 15,000 528 des Lift/Compression 527 15,000 516 75,000 528 TOTAL TANGIBLES 1,002,000 150,300 541,665 213,500 1,9		- :					b,250	520	7,000	- 6
ontingency 420 0 520 524 536 53				F40						7
leters/LACT 525 29,150 4				•					3,000	- 3
Identification 526 15,000 528 15,000 528 528 521 520		420	0	520				536		-
das Lift/Compression 527 15,000 516 75,000 528 TOTAL TANGIBLES 1,002,000 150,300 541,665 213,500 1,802,000										29
TOTAL TANGIBLES 1,002,000 150,300 541,665 213,500 1,9		-			45.000			E00		1
		-				516		528	840 500	1.00
TOTAL WELL COSTS 4,508,400 7,382,000 779,665 245,000 12,9				•						1,907
	TOTAL WELL COSTS		4,508,400	9 9			779,665		245,000	12,915

Printed Name: Title: Date:

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	

NTANGIBLE COSTS		Drlg - Rig Release(D)		Completion(C)		Tank Btty Constrctn(TB)		Pmpg Equipment(PEQ)	TOTA
ttle/Curative/Permit	201	11,000							11
surance	202	4,000							4
amages/Right of Way	203	5,000	303		351				5
rvey/Stake Location	204	6,000			352				6
cation/Pits/Road Expense	205	120,000	305	10,000	353	31,000	366		161
illing / Completion Overhead	206	11,100	306						11
rnkey Contract	207	0	307	1,397,000					1,397
otage Contract	208	0	308	781,000					781
ywork Contract	209	820,000		1,177,000					
									1,997
rectional Drilling Services	210	398,000	310	150,000					548
el & Power	211	211,000	311	5,000	354		367		210
iter	212	60,000	312	855,000			368		918
S	213	133,200	313	4,500			369		13
d & Chemicals	214	275,000	314	25,000			370		300
Il Stem Test	215	0	315				3		
ring & Analysis	216	0	0,0						-
									-
ment Surface	217	28,000							2
ment Intermediate	218	75,000							7:
ment 2nd Intermediate/Production	219	115,000							118
ment Squeeze & Other (Kickoff Plug)	220	0					371		
at Equipment & Centralizers	221 —	45,000							4
sing Crews & Equipment	222	60,000					8		6
ning Tools & Service	223	0	323				372		
ologic/Engineering	224	0	324		355	2	373		
ntract Labor	225	5,500	325	8,200	356	72,000	374	6,500	9
mpany Supervision	226	66,600	326	15,000	357		375		8
	227		327		358		376	E 000	
ntract Supervision		124,000		204,000	აეგ			5,000	33
sting Casing/Tubing	228	20,000	328	10,000			377		3
d Logging Unit	229	52,000	329						5
gging	230	0					378		
rforating/Wireline Services	231	4,000	331	515,000			379		51
mulation/Treating			332	397,000			380		39
								40.000	
mpletion Unit			333	138,000			381	10,000	14
abbing Unit			334				382		
entals-Surface	235	190,000	335	310,000	359		383	7,000	50
ntals-Subsurface	236	150,000	336	55,000			384		20
ucking/Forklift/Rig Mobilization	237	120,000	337	20,000	360	-	385	3,000	14
	238	4,000		5,000	361		386		
elding Services						105.000			
ater Disposal	239	0	339	60,000	362	135,000	387		19
ug to Abandon	240	0	340						
eismic Analysis	241	0	341						
scellaneous	242	0	342				389		
ontingency	243	63,000	343	250,000	363		390		31
		330,000		5,000	364		388		33
osed Loop & Environmental		330,000			304		300	-	
pil Tubing			346	462,000					46
owback Crews & Equip			347	325,000					32
ffset Directional/Frac	248	0	348	48,000					4
TOTAL INTANGIBLES		3,506,400		7,231,700		238,000		31,500	11,00
ANGIBLE COSTS	401	73,000							7
rrface Casing	— ⁴⁰¹ —								7
ermediate Casing	402	421,000							42
oduction Casing/Liner	403	433,000							43
bing			504	47,300			530	10,000	5
ellhead Equipment	405	75,000	505	22,000			531	3,000	10
mping Unit				0			506	98,000	
				0			507	30,000	
me Mover			-3					05 000	
ds	_			0			508	65,000	
mps-Sub Surface (BH)			509				532	5,500	
inks					510	35,800			:
owlines		-	17		511	85,000			
	0		1		512	159,465			15
eater Treater/Separator							E20	20,000	
ectrical System					513	60,000	533	20,000	
ckers/Anchors/Hangers	414	0	514	66,000			534	2,000	
uplings/Fittings/Valves	415	0			515	76,000			
hydration					517				
ection Plant/CO2 Equipment	-				518				
						6.050			_
mps-Surface			•		521	6,250			
strumentation/SCADA/POC			0		522		529	7,000	-
scellaneous	419	0	519		523		535	3,000	
ontingency	420	0	520		524	<u></u> :	536		
eters/LACT					525	29,150			
		~ 7			526				9
ares/Combusters/Emission						15,000			
as Lift/Compression			527	15,000	516		528		
TOTAL TANGIBLES		1,002,000		150,300		541,665		213,500	1,9
TOTAL WELL COSTS		4,508,400	-	7,382,000		779,665		245,000	12,9
			50						

Date Prepared: 3/27/2018 for proposal

COG Operating LLC

We approve:
____% Working interest

By: PWS

Company: Marathon Oil Permian LLC

Company: Marathon Oil Permian LLC

By:

Printed Name:
Title:

Date:

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

ITANGIBLE COSTS		<u>Drlg - Rig</u> <u>Release(D)</u>		Completion(C)		Tank Btty Constrctn(TB)		Pmpg Equipment(PEQ)	TOTAL
tle/Curative/Permit	201 _	11,000							11,
surance	— ²⁰² –	4,000	302		054				4,
amages/Right of Way	203	5,000	303		351				5,
rvey/Stake Location	204	6,000			352				6,
cation/Pits/Road Expense	205 _	120,000	305	10,000	353	31,000	366		161,
Iling / Completion Overhead	206	11,100	306						11.
rnkey Contract	207 _	0	307	1,397,000					1,397
otage Contract	208	0	308	781,000					781
ywork Contract	209	820,000	309	1,177,000					1,997
rectional Drilling Services	210	398,000	310	150,000					548
el & Power	211	211,000	311	5,000	354		367		216
ater	212	60,000	312	855,000		#	368	*	915
S	213	133,200	313	4,500			369		137
ud & Chemicals		275,000	314	25,000			370	-	300
			-	25,000			310	·	300
Ill Stem Test	215 _	0	315						
ring & Analysis	216	0							·
ement Surface	217	28,000							28
ement Intermediate	218	75,000							75
ment 2nd Intermediate/Production	219	115,000							115
ment Squeeze & Other (Kickoff Plug)	220	0					371		
pat Equipment & Centralizers	221	45,000							45
sing Crews & Equipment		60,000							60
ching Tools & Service	223	0	323				372		-
cologic/Engineering	— ²²³ –	0	324		355		373		
	$ \frac{224}{225}$ $-$	5,500	324	0.000	356	72,000	374	6,500	92
ntract Labor				8,200		12,000		0,000	
mpany Supervision	226	66,600	326	15,000	357	4	375		81
ntract Supervision	227	124,000	327		358		376	5,000	333
sting Casing/Tubing	228	20,000	328	10,000			377		30
ud Logging Unit	229	52,000	329						52
gging	230	0					378		
rforating/Wireline Services	231	4,000	331	515,000			379		519
mulation/Treating			332	397,000			380		397
mpletion Unit			333	138,000			381	10,000	148
rabbing Unit			334	100,000			382	10,000	
	235	190,000	335	310,000	359		383	7,000	507
entals-Surface					309	-		7,000	
ntals-Subsurface	236	150,000	336	55,000			384		205
ucking/Forklift/Rig Mobilization	237	120,000	337	20,000			385	3,000	143
elding Services	238	4,000	338	5,000	361		386		
ater Disposal	239	0	339	60,000	362	135,000	387		198
ug to Abandon	240	0	340						
eismic Analysis	241	0	341						
scellaneous	242	0	342				389		
ontingency	243	63,000	343	250,000	363		390		313
osed Loop & Environmental	244	330,000	344	5,000	364		388		335
oil Tubing			346	462,000					462
			347	325,000					325
owback Crews & Equip									48
ffset Directional/Frac	248 -	0	348	48,000				24.500	_
TOTAL INTANGIBLES		3,506,400		7,231,700		238,000		31,500	11,007
ANGIBLE COSTS									
	401	73,000							7
rface Casing		421,000							42
ermediate Casing	402 _								
oduction Casing/Liner	403	433,000					FC-		43
bing			504	47,300			530	10,000	5
ellhead Equipment	405	75,000	505	22,000			531	3,000	10
mping Unit				0			506	98,000	9
me Mover				0			507		
ds				0		10 - U.S. 10 - 10 - 11 - 1	508	65,000	6
mps-Sub Surface (BH)			509				532	5,500	
nks					510	35,800			3
wlines					511	85,000			8
					512	159,465			15
ater Treater/Separator						60,000	533	20,000	8
ectrical System			2.	20.000	513	000,000			
ckers/Anchors/Hangers	414	0		66,000			534	2,000	6
uplings/Fittings/Valves	— ⁴¹⁵ -	0			515	76,000			7
hydration					517				-
ection Plant/CO2 Equipment					518				-
mps-Surface					521	6,250			
trumentation/SCADA/POC			į, j		522		529	7,000	
scellaneous	419	0	519		523		535		
	420	0	•96 S		524		536		
ontingency	- 720 -	0	320		525	29,150	. 550		
eters/LACT			8 8						_
10 1 11 15 15 15			9		526	15,000			1
ares/Combusters/Emission									
as Lift/Compression			527	15,000			528		
		1,002,000 4,508,400	£0 3	15,000 150,300 7,382,000		75,000 541,665 779,665	528	213,500 245,000	1,90

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	
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LEGAL:	SEC 30-31 T24S-R35E	TVD:	12.640	

NTANGIBLE COSTS Title/Curative/Permit	201	Drlg - Rig Release(D)		Completion(C)		Tank Btty Constrctn(TB)		Pmpg Equipment(PEQ)	TOTA
nsurance	201 _	11,000 4,000	302						11
Damages/Right of Way	203	5,000	303		351				- 5
urvey/Stake Location	204	6,000	505		352				
cation/Pits/Road Expense	205	120,000	305	10,000	353	31,000	366		104
illing / Completion Overhead	206	11,100	306	10,000	333	31,000	300		161
Imkey Contract	_			1 207 000					11
	_ 207 _	0	307	1,397,000					1,397
otage Contract	_ 208 _	0	308	781,000					781
sywork Contract	209	820,000	309	1,177,000					1,997
rectional Drilling Services	210	398,000	310	150,000					548
el & Power	211	211,000	311	5,000	354		367		216
ater	212	60,000	312	855,000			368		915
S	213	133,200	313	4,500		1	369		137
id & Chemicals	214	275,000	314	25,000			370		300
Il Stern Test	215	0	315	20,000			0,0		
		0	313					-	
ring & Analysis	216								
ment Surface	_ 217 _	28,000							2
ment Intermediate	218	75,000							75
ment 2nd Intermediate/Production	219	115,000							11:
ment Squeeze & Other (Kickoff Plug)	220	0					371		
at Equipment & Centralizers	221	45,000							4
sing Crews & Equipment	222	60,000							60
hing Tools & Service	223	000,000	323				372		
					255				-
ologic/Engineering	- 224 -	0	324		355		373		
ntract Labor	_ 225 _	5,500	325	8,200	356	72,000	374	6,500	9
mpany Supervision	_ 226 _	66,600	326	15,000	357		375		8
ontract Supervision	227	124,000	327	204,000	358		376	5,000	33
sting Casing/Tubing	228	20,000	328	10,000			377		3
ud Logging Unit	229	52,000	329						5
gging	230	0					378		
erforating/Wireline Services	_ 231 -	4,000	331	515,000			379		51
	- 231	4,000							
imulation/Treating			332	397,000			380		39
ompletion Unit	_ J		333	138,000			381	10,000	14
vabbing Unit			334				382		
entals-Surface	235	190,000	335	310,000	359		383	7,000	50
entals-Subsurface	236	150,000	336	55,000			384		20
ucking/Forklift/Rig Mobilization	237	120,000	337	20,000	360		385	3,000	14
/elding Services	238	4,000	338	5,000	361	7	386		
						425,000			
/ater Disposal	_ 239 _	0	339	60,000	362	135,000	387		19
lug to Abandon	_ 240 _	0	340						
eismic Analysis	241	0	341						
iscellaneous	242	0	342				389		
ontingency	243	63,000	343	250,000	363		390		31
losed Loop & Environmental	244	330,000	344	5,000	364		388		33
oil Tubing	=.1. 5		346	462.000					46
owback Crews & Equip	-:		347	325,000					32
	- 240			48,000					4
ffset Directional/Frac	248	0	348						
TOTAL INTANGIBLES	-	3,506,400		7,231,700		238,000		31,500	11,00
ANGIBLE COSTS urface Casing	401	73,000							7
termediate Casing	402	421,000							42
	- 402 403	433,000							43
roduction Casing/Liner	- 403 -	433,000	EA.	17.000			E00	40.000	
ubing	-:: :÷		504	47,300			530	10,000	5
ellhead Equipment	_ ⁴⁰⁵ -	75,000	505	22,000			531	3,000	10
umping Unit	_ 1			0			506	98,000	9
rime Mover				0			507		
ods	1			0			508	65,000	6
umps-Sub Surface (BH)	-		509				532	5,500	
	_3 4		500		510	35,800	JUE	0,000	3
anks	- 2 :								
owlines					511	85,000			- 8
eater Treater/Separator					512				15
ectrical System	_ 1				513	60,000	533	20,000	8
ackers/Anchors/Hangers	414	0	514	66,000			534	2,000	
ouplings/Fittings/Valves	415	0			515	76,000			7
	⊸: ``` î				517				-
	-								
	- :				518				
ection Plant/CO2 Equipment	- !				521	6,250			-
ection Plant/CO2 Equipment imps-Surface					522		529	7,000	
ection Plant/CO2 Equipment imps-Surface			519		523	N	535	3,000	
ection Plant/CO2 Equipment imps-Surface strumentation/SCADA/POC	- 419	0			524		536		
iection Plant/CO2 Equipment umps-Surface strumentation/SCADA/POC iscellaneous			520				-550		
ection Plant/CO2 Equipment umps-Surface strumentation/SCADA/POC iscellaneous ontingency	419 420	0	520		525	20 150			
ection Plant/CO2 Equipment imps-Surface strumentation/SCADA/POC scellaneous ontingency eters/LACT			520		525				
ection Plant/CO2 Equipment imps-Surface strumentation/SCADA/POC scellaneous ontingency eters/LACT ares/Combusters/Emission					526	15,000			1
jection Plant/CO2 Equipment umps-Surface strumentation/SCADA/POC iscellaneous ontingency leters/LACT ares/Combusters/Emission			520	15,000		15,000	528		1
ehydration jection Plant/CO2 Equipment umps-Surface strumentation/SCADA/POC liscellaneous ontingency leters/LACT lares/Combusters/Emission as Lift/Compression TOTAL TANGIBLES			527	15,000 150,300	526	15,000	528	213,500	
jection Plant/CO2 Equipment umps-Surface strumentation/SCADA/POC iscellaneous ontingency leters/LACT ares/Combusters/Emission as Lift/Compression		0	527		526	15,000 75,000	528	213,500 245,000	1
jection Plant/CO2 Equipment umps-Surface strumentation/SCADA/POC iscellaneous ontingency eters/LACT ares/Combusters/Emission as Lift/Compression TOTAL TANGIBLES		1,002,000	527	150,300	526	15,000 75,000 541,665	528		1,90

 We approve:
 By: PWS

 Company:
 Advance Energy Partners, LLC

Printed Name: Title: Date:

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	

NTANGIBLE COSTS [itte/Curative/Permit	201	Drlg - Rig Release(D) 11,000		Completion(C)		Tank Btty Constrctn(TB)		Pmpg Equipment(PEQ)	TOTA
nsurance	202	4,000	302						4,
Damages/Right of Way	203	5,000	303		351				5,
Survey/Stake Location	204	6,000			352				6,
ocation/Pits/Road Expense	205	120,000	305	10,000	353	31,000	366		161,
Orilling / Completion Overhead	206	11,100	306						11,
urnkey Contract	207	0	307	1,397,000					1,397
ootage Contract	208	0	308	781,000					781
aywork Contract	209	820,000	309	1,177,000					1,997
irectional Drilling Services	210	398,000	310	150,000					548
uel & Power	211	211,000	311	5,000	354		367		216
/ater	212	60,000	312	855,000			368	·	915
ts	213	133,200	313	4,500			369		137
ud & Chemicals	214	275,000	314	25,000			370		300
rill Stem Test	215	0	315						
oring & Analysis	216	0							
ement Surface	217	28,000							28
ement Intermediate	218	75,000							75
ement 2nd Intermediate/Production	219	115,000							115
ement Squeeze & Other (Kickoff Plug)	220	0					371		
pat Equipment & Centralizers	221	45,000							45
asing Crews & Equipment	222	60,000							60
shing Tools & Service	223	0	323				372		
eologic/Engineering	224	0	324		355		373		-
ontract Labor	225	5,500	325	8,200	356	72,000	374	6,500	92
ompany Supervision	226	66,600	326	15,000	357		375	- 5,000	81
ontract Supervision	227	124,000	327	204,000	358		376	5,000	333
esting Casing/Tubing	228	20,000	328	10,000	230		377	0,000	30
ud Logging Unit	229	52,000	329	10,000			-,,		52
ogging	230	0	OLU .				378		- 32
erforating/Wireline Services	231	4,000	331	515,000			379		519
imulation/Treating	201	4,000	332	397,000			380		397
ompletion Unit	-		333	138,000			381	10,000	148
vabbing Unit			334	130,000			382	10,000	140
	225	100.000	335	210,000	250			7,000	F07
entals-Surface	235	190,000		310,000	359		383	7,000	507
entals-Subsurface	236	150,000	336	55,000	200		384	2,000	205
ucking/Forklift/Rig Mobilization	237	120,000	337	20,000	360		385	3,000	143
elding Services	238	4,000	338	5,000	361	105.000	386		- 10.5
ater Disposal	239	0	339	60,000	362	135,000	387		195
ug to Abandon	240	0	340						
eismic Analysis	241	0	341						
iscellaneous	242	0	342				389	•	
ontingency	243	63,000	343	250,000	363		390	-	313
losed Loop & Environmental	244	330,000	344	5,000	364		388		335
oil Tubing			346	462,000					462
owback Crews & Equip	/ 4		347	325,000					325
ffset Directional/Frac	248	0	348	48,000					48
TOTAL INTANGIBLES	9 5	3,506,400		7,231,700		238,000		31,500	11,007
ANGIBLE COSTS urface Casing	401	73,000							7;
termediate Casing	402	421,000							42
oduction Casing/Liner	403	433,000							43
ubing			504	47,300			530	10,000	5
ellhead Equipment	405	75,000	505	22,000			531	3,000	10
Imping Unit				0			506	98,000	91
ime Mover				0			507		/t=====
ods	•			0			508	65,000	6
Imps-Sub Surface (BH)	9		509				532	5,500	•
anks	į				510	35,800			3
owlines		THE STREET			511	85,000			8
eater Treater/Separator					512	159,465			15
ectrical System		********			513	60,000	533	20,000	8
ackers/Anchors/Hangers	414	0	514	66,000	2.0		534	2,000	6
puplings/Fittings/Valves	415	0		00,000	515	76,000	554	2,000	7
ehydration	3117				517	70,000			
	8 8				518				
ection Plant/CO2 Equipment					521	6,250			
Imps-Surface	a 9					0,250	E20	7 000	_
strumentation/SCADA/POC	440	- 14 - 14 - X	E40		522		529 535	7,000 3,000	
	419	0			523			3,000	
	420	0	520		524		536		
ontingency					525	29,150			2
ontingency eters/LACT	8 3				526	15,000			1
ontingency eters/LACT ares/Combusters/Emission									9
ontingency leters/LACT lares/Combusters/Emission las Lift/Compression			527	15,000		75,000	528		
ontingency leters/LACT lares/Combusters/Emission ias Lift/Compression TOTAL TANGIBLES		1,002,000		150,300		541,665	528	213,500	1,90
liscellaneous contingency leters/LACT lares/Combusters/Emission lass Lift/Compression TOTAL TANGIBLES TOTAL WELL COSTS		1,002,000 4,508,400					528	213,500 245,000	

Company: Scratch Properties, LLC

By:

Printed Name: Title:

Date:

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	

NTANGIBLE COSTS itle/Curative/Permit	201	Drlg - Rig Release(D) 11,000		Completion(C)		Tank Btty Constrctn(TB)		Pmpq Equipment(PEQ)	<u>TOTAL</u>
surance	202		302						4,0
amages/Right of Way	203	5,000	303		351				5,0
urvey/Stake Location		6,000	-						
					352				6,0
cation/Pits/Road Expense	205		305	10,000	353	31,000	366		161,0
illing / Completion Overhead	206	11,100	306						11,1
rnkey Contract	207	0	307	1,397,000					1,397,
otage Contract	208	0	308	781,000					781,0
aywork Contract	209	820,000	309						
	_		-	1,177,000					1,997,
rectional Drilling Services	210	398,000	310	150,000					548,
iel & Power	211	211,000	311	5,000	354		367		216,
ater	212	60,000	312	855,000			368		915,
S	213	133,200	313	4,500			369		137,
ud & Chemicals	214	275,000	314	25,000		-	370		300,
ill Stem Test	215	0	315						
ring & Analysis	216	0							
ement Surface	217	28,000							28,
		75,000	3						
ement Intermediate	218 _		0.						75,
ement 2nd Intermediate/Production	219	115,000							115,
ement Squeeze & Other (Kickoff Plug)	220	0					371		
pat Equipment & Centralizers	221	45,000							45,
asing Crews & Equipment	222	60,000							60,
			000				0=-		
shing Tools & Service	223	0	323				372		
eologic/Engineering	224	0	324		355		373		
ontract Labor	225	5,500	325	8,200	356	72,000	374	6,500	92,
ompany Supervision		66,600	326	15,000	357	. 2,550	375		81,
			1.00						
ontract Supervision	227	124,000	327	204,000	358		376	5,000	333,
esting Casing/Tubing	228	20,000	328	10,000			377		30,
ud Logging Unit	229	52,000	329						52
gging	230	0					378		
			224	515,000			379		519,
erforating/Wireline Services	231 _	4,000	331						
imulation/Treating			332	397,000			380		397
ompletion Unit			333	138,000			381	10,000	148,
wabbing Unit			334				382		
entals-Surface	235	190,000	335	310,000	359		383	7,000	507.
					338			7,000	
entals-Subsurface	236	150,000	336	55,000			384		205,
rucking/Forklift/Rig Mobilization	237	120,000	337	20,000	360		385	3,000	143,
felding Services	238	4,000	338	5,000	361		386		9,
	239	0	339	60,000	362	135,000	387		195
later Disposal				00,000	302	189,000	307		150
lug to Abandon	240	0	340						
eismic Analysis	241	0	341						
iscellaneous	242	0	342				389		
ontingency	243	63,000	343	250,000	363	-	390		313,
							388		335
losed Loop & Environmental	244 _	330,000	344	5,000	364		300		
oil Tubing			346	462,000					462
owback Crews & Equip			347	325,000					325
ffset Directional/Frac	248	0	348	48,000					48
TOTAL INTANGIBLES		3,506,400		7,231,700		238,000		31,500	11,007
		3,300,400		7,231,700		200,000		01,000	11,007
ANGIBLE COSTS									-
urface Casing	401	73,000							73
termediate Casing	402	421,000							421
roduction Casing/Liner	403	433,000							433
		100,000	504	47,300			530	10,000	57
ubing	—:·								_
/ellhead Equipment	405	75,000	505	22,000			531	3,000	100
umping Unit				0			506	98,000	98
rime Mover			i	0			507		
			1	0			508	65,000	65
ods		THE RESERVE TO THE		U					
ımps-Sub Surface (BH)			509		ē		532	5,500	
anks					510	35,800			35
lowlines					511	85,000			85
					512				159
eater Treater/Separator	-						E22	20,000	80
lectrical System					513	60,000	533		
ackers/Anchors/Hangers	414	0	514	66,000			534	2,000	68
ouplings/Fittings/Valves	415	0	()		515	76,000			76
ehydration					517			V-1	8
ection Plant/CO2 Equipment					518				
umps-Surface					521	6,250			
strumentation/SCADA/POC					522		529	7,000	
		0	519		523		535	3,000	
iscellaneous	419					-		5,000	
ontingency	420	0	520		524		536		-
eters/LACT					525	29,150			29
lares/Combusters/Emission			1		526				15
	_		F07	45.000			520		90
as Lift/Compression			527	15,000	•		528		
TOTAL TANGIBLES		1,002,000		150,300		541,665		213,500	1,90
		4,508,400		7,382,000		779,665		245,000	12,915
TOTAL WELL COSTS									
TOTAL WELL COSTS									

Company: Energen Resources Corporation

By:

Printed Name:

Title:

Date:

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 Title/Curative/Permit	201	Drlg - Rig Release(D) 11,000		Completion(C)		Tank Btty Constrctn(TB)		Pmpg Equipment(PEQ)	<u>TOTAL</u> 11,000
Insurance	202		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	20,000					0
Coring & Analysis	216	0							0
Cernent Surface	217	28,000							28,000
Cement Intermediate	218	75,000							75,000
Cement 2nd Intermediate/Production	210 -	115,000						*	
Cement Squeeze & Other (Kickoff Plug)							274		115,000
	220 _	45.000					371	•	0
Float Equipment & Centralizers	221	45,000							45,000
Casing Crews & Equipment	222 _	60,000	222						60,000
Fishing Tools & Service	223 _		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
Stirnulation/Treating	- 1		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	0,000	9,000
Water Disposal	239	0	339	60,000	362	135,000	387		195,000
Plug to Abandon	— 240 -	0	340	- 00,000		100,000	00,		0
Seismic Analysis	— 240 - 241 -	0	341						0
Miscellaneous	242	0	342				389		0
	243	63,000	343	250,000	363		390		313,000
Contingency	— 243 -	330,000	344	5,000	364		388		335,000
Closed Loop & Environmental		330,000	346	462.000	304		300		462,000
Coil Tubing			0.0	325,000		 			325,000
Flowback Crews & Equip			347						
Offset Directional/Frac	248 _	0 500 100	348	48,000		000.000		24 500	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						ACCUPATION.	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	- i			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
Electrical System	_				513		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	- 110				517				0
					518				- 0
Injection Plant/CO2 Equipment	_				521				6,250
Pumps-Surface							529	7,000	7,000
Instrumentation/SCADA/POC			F40		522		535		3,000
Miscellaneous	419	0			523			3,000	3,000
Contingency	420	0	520		524		536		
Meters/LACT					525				29,150
Flares/Combusters/Emission					526		9		15,000
Gas Lift/Compression			527	15,000	•		528	2/2	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%	

Printed Name: Title:

Date:

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	

alle/Curative/Permit surance amages/Right of Way urvey/Stake Location ocation/Pits/Road Expense iilling / Completion Overhead urnkey Contract ootage Contract aywork Contract rectional Drilling Services uel & Power later ts ud & Chemicals iil Stern Test oring & Analysis ement Surface ement Intermediate ement 2nd Intermediate/Production ement Squeeze & Other (Kickoff Plug) oot Equipment & Centralizers asing Crews & Equipment	201	11,000 4,000 5,000 6,000 120,000 11,100 0 820,000 398,000 211,000 60,000 133,200 275,000 0	302 303 305 306 307 308 309 310 311 312 313	10,000 1,397,000 781,000 1,177,000 150,000 5,000 855,000	351 352 353	31,000	366		11, 4, 5, 6, 161,
amages/Right of Way urvey/Stake Location location/Pits/Road Expense illing / Completion Overhead urnkey Contract location Pits/Road Expense illing / Completion Overhead urnkey Contract location Drilling Services led & Power later late	203	5,000 6,000 120,000 11,100 0 820,000 398,000 211,000 60,000 133,200 275,000	303 305 306 307 308 309 310 311 312 313	1,397,000 781,000 1,177,000 150,000 5,000	352	31,000	366		5, 6, 161, 11,
urvey/Stake Location potation/Pits/Road Expense iilling / Completion Overhead urnkey Contract potage Contract apwork Contract rectional Drilling Services uel & Power fater ts ud & Chemicals iill Stern Test poing & Analysis ement Surface ement Intermediate ement 2nd Intermediate/Production ement Squeeze & Other (Kickoff Plug) potat Equipment & Centralizers	204	6,000 120,000 11,100 0 820,000 398,000 211,000 60,000 133,200 275,000	305 306 307 308 309 310 311 312 313	1,397,000 781,000 1,177,000 150,000 5,000	352	31,000	366		6, 161, 11,
ecation/Pits/Road Expense rilling / Completion Overhead urnkey Contract potage Contract aywork Contract rectional Drilling Services uel & Power fater sts ud & Chemicals rill Stem Test poing & Analysis rement Surface rement Intermediate ement 2nd Intermediate/Production ement Squeeze & Other (Kickoff Plug) oat Equipment & Centralizers	205	120,000 11,100 0 820,000 398,000 211,000 60,000 133,200 275,000	306 307 308 309 310 311 312 313	1,397,000 781,000 1,177,000 150,000 5,000		31,000	366		161, 11,
illing / Completion Overhead arnkey Contract botage Contract aywork Contract rectional Drilling Services tel & Power fater sts ud & Chemicals till Stem Test oring & Analysis ement Surface ement Intermediate ement 2nd Intermediate/Production ement Squeeze & Other (Kickoff Plug) oat Equipment & Centralizers	206	11,100 0 820,000 398,000 211,000 60,000 133,200 275,000	306 307 308 309 310 311 312 313	1,397,000 781,000 1,177,000 150,000 5,000	353	31,000	366 _		11,
urnkey Contract potage Contract aywork Contract rectional Drilling Services rectional Drilling Servi	207	0 820,000 398,000 211,000 60,000 133,200 275,000	307 308 309 310 311 312 313	781,000 1,177,000 150,000 5,000					
potage Contract aywork Contract rectional Drilling Services uel & Power ater ts ud & Chemicals till Stem Test boring & Analysis ement Surface ement Intermediate ement 2nd Intermediate/Production ement Squeeze & Other (Kickoff Plug) oat Equipment & Centralizers	208	0 820,000 398,000 211,000 60,000 133,200 275,000	308 309 310 311 312 313	781,000 1,177,000 150,000 5,000			•		4 00-
aywork Contract rectional Drilling Services uel & Power fater Its ud & Chemicals rill Stem Test pring & Analysis ement Surface ement Intermediate ement 2nd Intermediate/Production ement Squeeze & Other (Kickoff Plug) oat Equipment & Centralizers	209	820,000 398,000 211,000 60,000 133,200 275,000	309 310 311 312 313	1,177,000 150,000 5,000			3		1,397,
rectional Drilling Services Let & Power Later Its Let & Chemicals Let & Chemi	210	398,000 211,000 60,000 133,200 275,000	310 311 312 313	150,000 5,000					781,
uel & Power fater ts ud & Chemicals till Stem Test pring & Analysis ement Surface ement Intermediate ement 2nd Intermediate/Production ement Squeeze & Other (Kickoff Plug) oat Equipment & Centralizers	211	211,000 60,000 133,200 275,000	311 312 313	5,000					1,997
ater ts ud & Chemicals till Stern Test pring & Analysis ement Surface ement Intermediate ement 2nd Intermediate/Production ement Squeeze & Other (Kickoff Plug) oat Equipment & Centralizers	212	60,000 133,200 275,000 0	312 313	5,000			ı		548
ater ts ud & Chemicals till Stern Test pring & Analysis ement Surface ement Intermediate ement 2nd Intermediate/Production ement Squeeze & Other (Kickoff Plug) oat Equipment & Centralizers	212	60,000 133,200 275,000 0	312 313		354		367	-	216
ts ud & Chemicals rill Stern Test pring & Analysis ement Surface ement Intermediate ement 2nd Intermediate/Production ernent Squeeze & Other (Kickoff Plug) oat Equipment & Centralizers	213 214 215 216 217 218	133,200 275,000 0	313	000,000			368		915
ud & Chemicals ill Stern Test pring & Analysis ement Surface ement Intermediate ement 2nd Intermediate/Production ement Squeeze & Other (Kickoff Plug) pat Equipment & Centralizers	214 215 216 217 218	275,000 0		4.500			-		
ill Stern Test pring & Analysis ement Surface ement Intermediate ement 2nd Intermediate/Production ement Squeeze & Other (Kickoff Plug) pat Equipment & Centralizers	215 216 217 218	0		4,500			369		137
oring & Analysis ement Surface ement Intermediate ement 2nd Intermediate/Production ement Squeeze & Other (Kickoff Plug) oat Equipment & Centralizers	216 217 218		314	25,000			370		300
ement Surface ement Intermediate ement 2nd Intermediate/Production ement Squeeze & Other (Kickoff Plug) oat Equipment & Centralizers	217	0	315						
ment Intermediate ment 2nd Intermediate/Production ment Squeeze & Other (Kickoff Plug) pat Equipment & Centralizers	218								
ement 2nd Intermediate/Production ement Squeeze & Other (Kickoff Plug) oat Equipment & Centralizers	_	28,000					- 6		28
ement Squeeze & Other (Kickoff Plug) pat Equipment & Centralizers	_	75,000					1/2		75
ement Squeeze & Other (Kickoff Plug) oat Equipment & Centralizers		115,000							115
oat Equipment & Centralizers	220 —	0					274		- 110
							371		
ising Crews & Equipment	221	45,000				****	-		45
	222 —	60,000							60
hing Tools & Service	223	0	323				372		
eologic/Engineering	224	0	324		355		373		
ntract Labor	225	5,500	325	8,200	356	72,000	374	6,500	92
ompany Supervision	226	66,600	326	15,000	357		375		81
ontract Supervision	227	124,000	327	204,000	358		376	5,000	333
sting Casing/Tubing	228	20,000	328	10,000			377	3,000	30
ud Logging Unit	229 —	52,000	329	10,000		***	311		52
	_		329						- 52
gging	230	0					378		
rforating/Wireline Services	231	4,000		515,000			379		519
mulation/Treating			332	397,000			380		397
empletion Unit			333	138,000			381	10,000	148
vabbing Unit			334				382		
entals-Surface	235	190,000	335	310,000	359		383	7,000	507
entals-Subsurface	236	150,000	336	55,000			384	.,,	205
				20,000	360		385	3,000	143
ucking/Forklift/Rig Mobilization	237	120,000	337					3,000	
felding Services	238	4,000	338	5,000	361		386		9
ater Disposal	239	0	339	60,000	362	135,000	387		195
ug to Abandon	240	0	340				- 1		
eismic Analysis	241	0	341				- ij		
iscellaneous	242	0	342				389		
ontingency	243	63,000	343	250,000	363		390		313
osed Loop & Environmental	244	330,000	344	5,000	364		388		335
77.1			346	462,000					462
out tubing	-		347	325,000					325
owback Crews & Equip									48
ffset Directional/Frac	248	0	348	48,000				21.522	
ANGIBLE COSTS	a a	3,506,400		7,231,700		238,000	374	31,500	11,007
urface Casing	401	73,000					na		73
termediate Casing	402	421,000					9		421
oduction Casing/Liner	403	433,000	. 1				1		433
		.00,000	504	47,300			530	10,000	57
bing	405	75.000					2.7	3,000	100
ellhead Equipment	405 —	75,000	505	22,000			531		
mping Unit				0			506	98,000	98
ime Mover				0			507		
ods				0			508	65,000	6
ımps-Sub Surface (BH)			509				532	5,500	
inks					510	35,800			3
owlines					511	85,000			- 8
	1				512	159,465			15
eater Treater/Separator	-						522	20,000	8
ectrical System			أبيم	20.000	513	60,000	533		
ckers/Anchors/Hangers	414	0		66,000			534	2,000	6
ouplings/Fittings/Valves	415	0			515	76,000			7
ehydration					517				
ection Plant/CO2 Equipment					518				
Imps-Surface		200-20			521	6,250			
strumentation/SCADA/POC					522		529	7,000	
	410		E10			-	535	3,000	
scellaneous	419	0			523			3,000	
ontingency	420 —	0	520		524		536		
eters/LACT					525	29,150	, .		2
ares/Combusters/Emission			į, į		526	15,000			1
as Lift/Compression			527	15,000	516	75,000	528		9
TOTAL TANGIBLES	3 =	1,002,000		150,300		541,665		213,500	1,90
	: :: <u>-</u>	4,508,400	-	7,382,000		779,665		245,000	12,91
TOTAL WELL COSTS	S==	4,300,400	-	1,302,000		113,000		2.10,000	

Printed Name:
Title:
Date:

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	

NTANGIBLE COSTS		<u>Drig - Rig</u> <u>Release(D)</u>		Completion(C)		<u>lank Btty</u> Constrctn(TB)		Pmpg Equipment(PEQ)	TOTAL
itle/Curative/Permit	201	11,000							11,00
surance	202		302						4,00
amages/Right of Way	203		303		351				5,0
urvey/Stake Location	_	6,000	500		352				
	_ 204 _			10.000					6,0
cation/Pits/Road Expense	205		305	10,000	353	31,000	366	-	161,0
illing / Completion Overhead	206	11,100	306						11,1
rnkey Contract	207	0	307	1,397,000					1,397,0
ootage Contract	208	0	308	781,000					781,0
aywork Contract	209	820,000	309	1,177,000					1,997,0
•	-	398,000	310	150,000					
rectional Drilling Services	210								548,0
iel & Power	211	211,000	311	5,000	354		367		216,0
ater	212	60,000	312	855,000			368		915,0
is	213	133,200	313	4,500			369	<u> </u>	137,7
ud & Chemicals	214	275,000	314	25,000			370	-	300,0
	-	0	315	20,000			0.0		- 000,
rill Stem Test	215		313						-
oring & Analysis	216	0	: 5					-	
ernent Surface	217	28,000							28,0
ement Intermediate	218	75,000							75,0
ement 2nd Intermediate/Production	219	115,000							115,0
	-		1 3				371	•	
ement Squeeze & Other (Kickoff Plug)	220	0	5 B				3/1		-
oat Equipment & Centralizers	221	45,000							45,0
asing Crews & Equipment	222	60,000							60,0
shing Tools & Service	223	0	323				372		
eologic/Engineering	224	0	324		355		373		
	-			8,200	356	72,000	374	6,500	92,2
ontract Labor	225	5,500	325			12,000		0,000	
ompany Supervision	_ 226	66,600	326	15,000	357		375		81,6
ontract Supervision	227	124,000	327	204,000	358		376	5,000	333,0
esting Casing/Tubing	228	20,000	328	10,000			377		30,0
ud Logging Unit	229	52,000	329						52,0
	-	02,000	- 0_0				378		
ogging	230								F40.6
erforating/Wireline Services	231	4,000	331	515,000			379		519,0
timulation/Treating	_		332	397,000			380		397,0
ompletion Unit			333	138,000			381	10,000	148,0
wabbing Unit			334				382		
	- 225	190,000	335	310,000	359		383	7,000	507,0
entals-Surface	235				339	-		7,000	
entals-Subsurface	236	150,000	336	55,000			384		205,0
rucking/Forklift/Rig Mobilization	237	120,000	337	20,000	360		385	3,000	143,0
/elding Services	238	4,000	338	5,000	361		386		9,0
Vater Disposal	239	0	339	60,000	362	135,000	387		195,0
	240	0	340						
lug to Abandon									-
eismic Analysis	_ 241	0	341						
/liscellaneous	242	.0	342				389		
ontingency	243	63,000	343	250,000	363		390		313,
losed Loop & Environmental	244	330,000	344	5,000	364		388		335,
	=0		346	462,000					462,
oil Tubing	= '								325,
lowback Crews & Equip			347	325,000					
Offset Directional/Frac	248	0	348	48,000					48,
TOTAL INTANGIBLES		3,506,400		7,231,700		238,000		31,500	11,007,0
	= :			***************************************		2			
ANGIBLE COSTS									
urface Casing	401	73,000							73,
									421,
ntermediate Casing	_ 402	421,000							
roduction Casing/Liner	_ 403	433,000	•						433,
ubing			504	47,300			530	10,000	57,
Vellhead Equipment	405	75,000	505	22,000			531	3,000	100,
	-:			0			506	98,000	98,
Pumping Unit	_			0			507		
rime Mover	_							05.000	^=
tods	_			0			508	65,000	65,
umps-Sub Surface (BH)	_		509		9		532	5,500	5,
ranks			7		510	35,800			35
	-				511				85
lowlines	-								159
leater Treater/Separator	-:				512				
lectrical System					513	60,000	533	20,000	80
ackers/Anchors/Hangers	414	0	514	66,000			534	2,000	68
ouplings/Fittings/Valves	415	0			515	76,000			76
					517				
ehydration	=								-
jection Plant/CO2 Equipment	_		0)		518				
umps-Surface	_				521			0	6
nstrumentation/SCADA/POC			D)		522	2	529	7,000	7
fiscellaneous	419	0	519		523	3	535	3,000	3
	_		-		524		536		
Contingency	420		520				530		
Meters/LACT	_		-8		525				29
lares/Combusters/Emission	_		_		526				15
Gas Lift/Compression	-		527	15,000	516	75,000	528		90
	_	1,002,000		150,300	-	541,665		213,500	1,907
TOTAL TANGIBLES				,500	-				
TOTAL TANGIBLES TOTAL WELL COSTS	=	4,508,400	-	7,382,000		779,665		245,000	12,915

Burlington Resources Oil and Gas
Company, LP
By:

COG Operating LLC

Printed Name:
Title:
Date:

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

		Drlg - Rig				Tank Btty		Pmpg_	
NTANGIBLE COSTS		Release(D)		Completion(C)		Constrctn(TB)		Equipment(PEQ)	TOTA
tle/Curative/Permit	201	11,000		<u>completion(c)</u>		<u>oonou oun (12)</u>		Equipment: Eq.	11
surance		4,000	302						
amages/Right of Way			C 14		054				4
	203	5,000	303		351				5
rvey/Stake Location	204	6,000	8 0		352				6
cation/Pits/Road Expense	205	120,000	305	10,000	353	31,000	366		161
illing / Completion Overhead	206	11,100	306						11
mkey Contract	207	0	307	1,397,000					1,397
otage Contract	208	0	308	781,000				The same of the sa	781
aywork Contract	209	820,000	309	1,177,000					
2,									1,997
rectional Drilling Services	210	398,000	310	150,000					548
el & Power	211	211,000	311	5,000	354		367		216
ater	212	60,000	312	855,000			368		915
8	213	133,200	313	4,500			369		137
d & Chemicals	214	275,000	314	25,000			370	-	300
Il Stem Test			315	20,000			010	-	-
	215	0	313						
ring & Analysis	216 _	0							
ment Surface	217	28,000							28
ment Intermediate	218	75,000							75
ment 2nd Intermediate/Production	219	115,000						5	115
ment Squeeze & Other (Kickoff Plug)	220	0	9 10				371		
			§ 77				911		
at Equipment & Centralizers	221 _	45,000	2 20						45
sing Crews & Equipment	222	60,000		0					60
hing Tools & Service	223	0	323				372		
ologic/Engineering	224	0	324		355		373		
ontract Labor	225	5,500	325	8,200	356	72,000	374	6,500	92
						12,000		0,000	
mpany Supervision	226 _	66,600	326	15,000	357	-	375	<u> </u>	8
ntract Supervision	227 _	124,000	327	204,000	358		376	5,000	333
sting Casing/Tubing	228	20,000	328	10,000			377	7	30
ud Logging Unit	229	52,000	329						5.
gging	230	0					378		2
erforating/Wireline Services	231	4,000	331	515,000			379		519
		4,000							
mulation/Treating			332	397,000			380		39
empletion Unit			333	138,000			381	10,000	148
vabbing Unit			334				382		
entals-Surface	235	190,000	335	310,000	359		383	7,000	50
entals-Subsurface	236	150,000	336	55,000			384		205
					200			2,000	
ucking/Forklift/Rig Mobilization	237	120,000	337	20,000	360		385	3,000	143
elding Services	238	4,000	338	5,000	361		386	12	
ater Disposal	239	0	339	60,000	362	135,000	387		19
ug to Abandon	240	0	340						
eismic Analysis	241	0	341						
	242	0					389	-	
scellaneous				252.000					
ontingency	243 _	63,000	343	250,000	363		390		313
osed Loop & Environmental	244	330,000	344	5,000	364		388		33
oil Tubing			346	462,000				SIC CONTRACTOR OF THE SECOND	46
owback Crews & Equip			347	325,000					32
fset Directional/Frac	248	0		48,000					4
			J-10			220,000		24 500	
TOTAL INTANGIBLES		3,506,400		7,231,700		238,000		31,500	11,00
ANGIBLE COSTS									
rface Casing	401	73,000						J	,7
ermediate Casing	402	421,000							42
	403	433,000							43
oduction Casing/Liner		433,000		17.000			500	40.000	
bing			504	47,300			530	10,000	5
ellhead Equipment	405	75,000	505	22,000			531	3,000	10
mping Unit				0			506	98,000	9
ime Mover				.0			507		
nds	-			0			508	65,000	- 6
			FAA	U					_
mps-Sub Surface (BH)			509				532	5,500	
inks					510			2	3
owlines				N E 201 1	511	85,000		· · · · · · · · · · · · · · · · · · ·	8
eater Treater/Separator					512	159,465			15
ectrical System					513		533	20,000	- 8
			F4.4		310	00,000	534	2,000	
ckers/Anchors/Hangers	414 _	0	•	66,000			J34	2,000	
uplings/Fittings/Valves	415 _	0			515				
hydration					517				
ection Plant/CO2 Equipment					518				
mps-Surface					521				
	 : :=						FOO	7.000	_
strumentation/SCADA/POC					522		529		
scellaneous	419	0			523		535		
ontingency	420	0	520		524		536		
eters/LACT					525				- 2
ares/Combusters/Emission					526				
as Lift/Compression			527	15,000	516		528		
TOTAL TANGIBLES		1,002,000		150,300		541,665		213,500	1,90
									40.00
TOTAL WELL COSTS		4,508,400		7,382,000		779,665		245,000	12,9

COG Operating LLC 3/27/2018 for proposal Date Prepared: COG Operating LLC We approve:
_____% Working Interest By: PWS Company: L. W. Kirby By: Printed Name:
Title:
Date:

of the actual costs incurred.

This AFE is only an estimate. By signing you agree to pay your share

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	

NTANGIBLE COSTS itle/Curative/Permit	201	Drlg - Rig Release(D)		Completion(C)		Tank Btty Constrctn(TB)		Pmpg Equipment(PEQ)	<u>TOTAI</u>
surance			302						4,
amages/Right of Way	203	5,000	303		351				5,
rvey/Stake Location	204	6,000	1		352				6,
cation/Pits/Road Expense	205	120,000	305	10,000	353	31,000	366		161,
illing / Completion Overhead	206 -	11,100	306	10,000	555	31,000	500		
mkey Contract	200 -	0	307	1,397,000					11
			-						1,397
otage Contract	208	0	308	781,000					781
ywork Contract	209	820,000	309	1,177,000					1,997
rectional Drilling Services	210	398,000	310	150,000					548
el & Power	211 _	211,000	311	5,000	354		367		216
ater	212	60,000	312	855,000			368		915
B	213	133,200	313	4,500			369		137
d & Chemicals	214	275,000	314	25,000			370		300
Il Stern Test	215	0	315	20,000			010		
			313						
ring & Analysis	216	0							
ment Surface	217	28,000	- 1					-	28
ment Intermediate	218	75,000							75
ment 2nd Intermediate/Production	219	115,000	1						115
ment Squeeze & Other (Kickoff Plug)	220	0	J				371		
at Equipment & Centralizers	221	45,000	ī						45
sing Crews & Equipment		60,000							60
hing Tools & Service		0	323				372		
ologic/Engineering	— 223 -	0	324		355		373		-
			-	0.000		70.000		0.500	
ntract Labor	225	5,500	325	8,200	356	72,000	374	6,500	92
mpany Supervision	226	66,600	326	15,000	357		375		81
ntract Supervision	227	124,000	327	204,000	358		376	5,000	333
sting Casing/Tubing	228	20,000	328	10,000			377		30
d Logging Unit	229	52,000	329						52
gging	230	0	i				378		
rforating/Wireline Services	231	4,000	331	515,000			379		519
		4,000		397,000			380		
mulation/Treating			332					42.000	397
mpletion Unit	-		333	138,000			381	10,000	148
rabbing Unit			334				382		
ntals-Surface	235	190,000	335	310,000	359		383	7,000	507
ntals-Subsurface	236	150,000	336	55,000			384		205
ucking/Forklift/Rig Mobilization	237	120,000	337	20,000	360		385	3,000	143
elding Services	238	4,000	338	5,000	361		386		
ater Disposal	239	0	339	60,000	362	135,000	387		195
ug to Abandon	240	0	340	00,000		100,000	001		
			,						
ismic Analysis	241	0	341						
scellaneous	242	0	342				389		
ntingency	243	63,000	343	250,000	363		390		313
osed Loop & Environmental	244 _	330,000	344	5,000	364		388)	335
oil Tubing			346	462,000					462
owback Crews & Equip			347	325,000					325
fset Directional/Frac	248	0	348	48,000					48
TOTAL INTANGIBLES		3,506,400	-	7,231,700		238,000		31,500	11,007
ANGIBLE COSTS		70.000							7.
rface Casing	401 -	73,000							73
ermediate Casing	402	421,000							42
oduction Casing/Liner	403	433,000				ALTERNATION OF THE PARTY.			433
bing			504	47,300			530	10,000	5
ellhead Equipment	405	75,000	505	22,000			531	3,000	100
mping Unit				0			506	98,000	9
me Mover				0			507	30,000	
								es 000	-
ds				0			508	65,000	6
mps-Sub Surface (BH)			509				532	5,500	-
nks					510	35,800			3
wlines					511	85,000			В.
ater Treater/Separator					512	159,465			15
ectrical System			1		513	60,000	533	20,000	8
ckers/Anchors/Hangers	414	0	514	66,000			534	2,000	6
uplings/Fittings/Valves	415	0			515	76,000			7
*************************************					517	10,000		•	-
hydration									
ection Plant/CO2 Equipment					518				
mps-Surface			0 1		521	6,250			·
trumentation/SCADA/POC					522		529	7,000	
scellaneous	419	0	519		523		535	3,000	
ntingency	420	0	520		524		536		
eters/LACT			au - 2		525				
			8 8		526				1
ares/Combusters/Emission			50-	18.000			FOO		
			527	15,000	516		528		9
IS Lift/Compression TOTAL TANGIBLES TOTAL WELL COSTS		1,002,000 4,508,400	e s	150,300 7,382,000		541,665 779,665		213,500 245,000	1,90 12,91

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

NTANGIBLE COSTS I'itle/Curative/Permit	201	<u>Drlg - Rig</u> <u>Release(D)</u> 11,000		Completion(C)		Tank Btty Constrctn(TB)		Pmpg Equipment(PEQ)	TOTAL 11,0
nsurance	202		302						4,0
Damages/Right of Way	203	5,000	303		351	*****			5,0
Survey/Stake Location	204	6,000			352				6,0
ocation/Pits/Road Expense	205		305	10,000	353	31,000	366		161,0
rilling / Completion Overhead	206	11,100	306		-	0.11000			11,1
umkey Contract	207	0	307	1,397,000					1,397,0
ootage Contract	208	0	308	781,000					781,0
aywork Contract	209	820,000	309	1,177,000					1,997,0
*			117						
irectional Drilling Services	210	398,000	310	150,000	054				548,0
uel & Power	211	211,000	311		354		367		216,0
/ater	212		312	855,000			368		915,0
ts	213	133,200	313	4,500			369		137,7
ud & Chemicals	214	275,000	314	25,000			370		300,0
rill Stem Test	215	0	315						
oring & Analysis	216	0				The state of the state of			
ement Surface	217	28,000							28,0
ement Intermediate	218	75,000							75,0
ement 2nd Intermediate/Production	219	115,000							115,0
ement Squeeze & Other (Kickoff Plug)	220	0					371		-
oat Equipment & Centralizers	221	45,000							45,0
asing Crews & Equipment	222	60,000							60,0
shing Tools & Service	223	0,000	323				372		- 00,0
		0	323		355		373	-	
eologic/Engineering	224			0.000		70.000		0.500	
ontract Labor	225	5,500	325	8,200	356	72,000	374	6,500	92,3
ompany Supervision	226	66,600	326	15,000	357		375		81,6
ontract Supervision	227	124,000	327	204,000	358		376	5,000	333,0
esting Casing/Tubing	228	20,000	328	10,000			377		30,0
ud Logging Unit	229	52,000	329						52,0
ogging	230	0					378		7
erforating/Wireline Services	231	4,000	331	515,000			379		519,0
imulation/Treating			332	397,000			380		397,0
ompletion Unit	1		333	138,000			381	10,000	148,0
wabbing Unit			334				382		
entals-Surface	235	190,000	335	310,000	359		383	7,000	507,0
		150,000	336	55,000	000		384	1,000	205,0
entals-Subsurface	236				200			3,000	_
rucking/Forklift/Rig Mobilization	237	120,000	337	20,000	360		385	3,000	143,0
/elding Services	238	4,000	338	5,000	361		386		9,0
/ater Disposal	239	0	339	60,000	362	135,000	387		195,0
lug to Abandon	240	0	340						
eismic Analysis	241	0	341						
liscellaneous	242	0	342				389		
ontingency	243	63,000	343	250,000	363		390		313,0
losed Loop & Environmental	244	330,000	344	5,000	364		388		335,0
oil Tubing	-		346	462,000					462,0
lowback Crews & Equip	-)		347	325,000					325,0
offset Directional/Frac	248	0	348	48,000					48,
TOTAL INTANGIBLES	=x = 1 = 2 =y = 5	3,506,400		7,231,700		238,000		31,500	11,007,
ANGIBLE COSTS									70
urface Casing	401	73,000							73,
termediate Casing	402	421,000							421,
roduction Casing/Liner	403	433,000						الالتسميد	433,
ubing			504	47,300			530	10,000	57,
/ellhead Equipment	405	75,000	505	22,000			531	3,000	100
umping Unit				0			506	98,000	98,
rime Mover	1			0			507		
ods	-			0			508	65,000	65,
umps-Sub Surface (BH)	-		509				532	5,500	- 5
anks	-		, , ,		510	35,800	_		35.
	-				511	85,000			85
lowlines	-								159
eater Treater/Separator	-				512	159,465	FOO	20,000	80
lectrical System					513	60,000	533	20,000	
ackers/Anchors/Hangers	414	0		66,000	_		534	2,000	68
ouplings/Fittings/Valves	415	0			515	76,000			76
ehydration			. ,		517				
jection Plant/CO2 Equipment					518				-
umps-Surface					521	6,250			6
strumentation/SCADA/POC			ľ.		522		529	7,000	, <u> </u>
liscellaneous	419	0	519		523		535	3,000	3
contingency	420	0	•0.		524	£	536		
	720		320		525	29,150	.55		29
Meters/LACT	- 8. 8								15
lares/Combusters/Emission	= 6				526	15,000	FOO	-	
Sas Lift/Compression	-		527	15,000	516	75,000	528	******	90
TOTAL TANGIBLES	-	1,002,000	•	150,300		541,665		213,500	1,907
		4 500 400		7 200 000		779,665		245,000	12,915
TOTAL WELL COSTS	_	4,508,400		7,382,000		119,003		2 10,000	

Date Prepared: 3/27/2018 for proposal COG Operating LLC We approve: _____% Working Interest By: PWS

Company: Flatland Mineral Fund, LP
By:

Printed Name: Title:

Date:



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.

Respectfully,	
Megan ö	t. Tipton
Megan Tipton Landman	
	I/We hereby elect to participate in the Fascinator Federal Com 604H.
	I/We hereby elect <u>not</u> to participate in the Fascinator Federal Com 604H.
Company:	
Ву:	
Name:	
Title:	

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



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

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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.

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