

Before the Oil Conservation Division

Mercury State Com Wells 703H, 704H & 705H

Case No. 21668



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

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

CASE NO. 21668

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COMPULSORY POOLING APPLICATION CHECKLIST

ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS						
Case: 21668	APPLICANT'S RESPONSE					
Date: March 4, 2021						
Applicant	COG Operating LLC					
Designated Operator & OGRID (affiliation if applicable)	OGRID #229137					
Applicant's Counsel:	Ocean Munds-Dry					
Case Title:	Application of COG Operating LLC for Compulsory Pooling, Eddy County, New Mexico.					
Entries of Appearance/Intervenors:	EOG Resources, Inc. (Lance D. Hough/Modrall)					
Well Family	Mercury					
Formation/Pool						
Formation Name(s) or Vertical Extent:	Wolfcamp					
Primary Product (Oil or Gas):	Oil					
Pooling this vertical extent:	Wolfcamp A					
Pool Name and Pool Code:	Purple Sage; Wolfcamp					
Well Location Setback Rules:	Purple Sage; Wolfcamp					
Spacing Unit Size:	Approx. 958.16 acres					
Spacing Unit						
Type (Horizontal/Vertical)	Horizontal (3 mile)					
Size (Acres)	Approx. 958.16 Acres					
Building Blocks:	Quarter-quarter					
Orientation:	South to North					
Description: TRS/County	Lots 1, 2, 3, 4, E2W2 [W2] of Sections 6, 7 and 18, Township 26 South, Range 28 East, NMPM, Eddy					
standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes					
Other Situations						
epth Severance: Y/N. If yes, description	No					
Proximity Tracts: If yes, description	No					
roximity Defining Well: if yes, description	N/A					
Applicant's Ownership in Each Tract	See Exhibit 1, Attachment B					

Well(s)	Neces
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)	See Exhibit 1, Attachment A
Well #1	Mercury State Com #704H (API 30-015-47523) SHL: 220 FSL & 1455 FWL, S18-T26S-Range28E BHL:50 FNL & 2090 FWL, S6-T26S-R28E Completion Target: Wolfcamp Formation (Approx TVD 9286) Completion Status: Non-Standard
Well #2	Mercury State Com #705H (API 30-015-447524) SHL: 220 FSL & 1425 FWL, S18-T26S-R28E BHL: 50 FNL & 1210 FWL, S6-T26S-R28E Completion Target: Wolfcamp Formation (Approx TVD 9153) Completion Status: Non-Standard
Well #3	Mercury State Com #706H (API 30-015-47525) SHL: 220 FSL & 1395 FWL, S18-T26S-R28E BHL: 50 FNL & 330 FWL, S6-T26S-R28E Completion Target: Wolfcamp Formation (Approx TVD 9257) Completion Status: Non-Standard
Horizontal Well First and Last Take Points	Exhibit 1, Attachment A
Completion Target (Formation, TVD and MD)	Exhibit 2, Attachment G
AFE Capex and Operating Costs	
Drilling Supervision/Month \$	\$8,000
Production Supervision/Month \$	\$800
Justification for Supervision Costs	Exhibit 1, Attachment C
Requested Risk Charge	200%
Notice of Hearing	
Proposed Notice of Hearing	Exhibit 3
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit 3
Proof of Published Notice of Hearing (10 days before hearing)	Exhibit 3
Ownership Determination	rage age
Land Ownership Schematic of the Spacing Unit	Attachment B

Tract List (including lease numbers and owners)	Attachment B
Pooled Parties (including ownership type)	Attachment B
Unlocatable Parties to be Pooled	N/A
Ownership Depth Severance (including percentage above & below)	N/A
Joinder	
Sample Copy of Proposal Letter	Attachment C
List of Interest Owners (ie Exhibit A of JOA)	Attachment B
Chronology of Contact with Non-Joined Working Interests	Exhibit 1
Overhead Rates in Proposal Letter	N/A
Cost Estimate to Drill and Complete	Attachment C
Cost Estimate to Equip Well	Attachment C
Cost Estimate for Production Facilities	Attachment C
Geology	
Summary (including special considerations)	Exhibit 2
Spacing Unit Schematic	Attachment D
Gunbarrel/Lateral Trajectory Schematic	N/A
Well Orientation (with rationale)	Exhibit 2
Target Formation	Wolfcamp
HSU Cross Section	Attachments F and G
Depth Severance Discussion	N/A
Forms, Figures and Tables	
C-102	Attachment A
Tracts	Attachment B
Summary of Interests, Unit Recapitulation (Tracts)	Attachment B
General Location Map (including basin)	Attachment B
Well Bore Location Map	Attachment D
tructure Contour Map - Subsea Depth	Attachment E
ross Section Location Map (including wells)	Attachment F
cross Section (including Landing Zone) dditional Information	Attachment G
special Provisions/Stipulations	
ERTIFICATION: I hereby certify that the information pro	vided in this checklist is complete and accurate.
rinted Name (Attorney or Party Representative):	Ocean Munds-Dry
igned Name (Attorney or Party Representative):	Ocean Munds-Dy
Date:	3/2/20

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

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

CASE NO. 2/668

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APPLICATION

COG OPERATING LLC ("COG"), through its undersigned attorneys, hereby files this application with the Oil Conservation Division pursuant to the provisions of N.M. Stat. Ann. § 70-2-17, for an order pooling all uncommitted interests in the Wolfcamp formation, Purple Sage Wolfcamp Gas Pool (98220), underlying a standard 958.16-acre, more or less, horizontal spacing unit comprised of Lots 1, 2, 3, 4, and the E/2W/2 of Sections 6, 7, and 18, Township 26 South, Range 28 East, NMPM, Eddy County, New Mexico. In support of its application, COG states:

- 1. COG (OGRID Number 229137) is a working interest owner in the proposed horizontal spacing unit and has the right to drill thereon.
- 2. COG proposes to dedicate the above-referenced horizontal spacing unit to the following proposed initial wells, which it proposes to drill simultaneously:
 - The Mercury State Com 704H well to be horizontally drilled from a surface hole location in the SE/4SW/4 (Unit N) of Section 18 to a bottom hole location in the NE/4NW/4 (Unit C) of Section 6,
 - The Mercury State Com 705H well to be horizontally drilled from a surface hole location in the SE/4SW/4 (Unit N) of Section 18 to a bottom hole location in the NW/4NW/4 (Lot 1) of Section 6, and

- The Mercury State Com 706H well to be horizontally drilled from a surface hole location in the SE/4SW/4 (Unit N) of Section 18 to a bottom hole location in the NW/4NW/4 (Lot 1) of Section 6.
- 3. COG has sought and been unable to obtain voluntary agreement for the development of these lands from all the working interest owners in the subject spacing unit.
- 4. The pooling of interests will avoid the drilling of unnecessary wells, will prevent waste, and will protect correlative rights.
- 5. In order to permit COG to obtain its just and fair share of the oil and gas underlying the subject lands, all uncommitted interests in the subject spacing unit should be pooled and COG should be designated the operator of the proposed horizontal wells and spacing unit.

WHEREFORE, COG requests that this application be set for hearing before an Examiner of the Oil Conservation Division on March 4, 2021, and, after notice and hearing as required by law, the Division enter an order:

- A. Pooling all uncommitted interests in the horizontal spacing unit;
- B. Approving the initial wells in the horizontal spacing unit;
- C. Designating COG as operator of this spacing unit and the wells to be drilled thereon;
- D. Authorizing COG to recover its costs of drilling, equipping and completing the wells;
- E. Approving the actual operating charges and costs of supervision while drilling and after completion, together with a provision adjusting the rates pursuant to the COPAS accounting procedures; and

F. Imposing a 200% penalty for the risk assumed by COG in drilling and completing the wells against any working interest owner who does not voluntarily participate in the drilling of the well.

Respectfully submitted,

COG OPERATING LLC

/s/ Michael Rodriguez

Ocean Munds-Dry
Michael Rodriguez
1048 Paseo de Peralta
Santa Fe, New Mexico 87501
(505) 780-8000
omundsdry@concho.com
mrodriguez@concho.com

ATTORNEYS FOR COG OPERATING LLC

CASE

Application of COG Operating LLC for compulsory pooling, Eddy County, New Mexico. Applicant in the above-styled causes seeks an order pooling all uncommitted interests in the Wolfcamp formation, Purple Sage Wolfcamp Gas Pool (98220), underlying a standard 958.16-acre, more or less, horizontal spacing unit comprised of Lots 1, 2, 3, 4, and the E/2W/2 of Sections 6, 7, and 18, Township 26 South, Range 28 East, NMPM, Eddy County, New Mexico. COG Operating LLC seeks to dedicate the abovereferenced horizontal spacing unit to the following proposed wells:

- The Mercury State Com 704H well to be horizontally drilled from a surface hole location in the SE/4SW/4 (Unit N) of Section 18 to a bottom hole location in the NE/4NW/4 (Unit C) of Section 6,
- The Mercury State Com 705H well to be horizontally drilled from a surface hole location in the SE/4SW/4 (Unit N) of Section 18 to a bottom hole location in the NW/4NW/4 (Lot 1) of Section 6, and
- The Mercury State Com 706H well to be horizontally drilled from a surface hole location in the SE/4SW/4 (Unit N) of Section 18 to a bottom hole location in the NW/4NW/4 (Lot 1) of Section 6.

Also, to be considered will be the allocation of the cost thereof, the actual operating costs and charges for supervision, the designation of COG Operating LLC as operator of the wells, and the imposition of 200% charge for risk involved in drilling and completing said wells. Said area is located approximately 10.6 miles south of Malaga, New Mexico.

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

APPLICATIONS OF COG OPERATING LLC FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO

CASE NOS. 21667 & 21668

LANDMAN AFFIDAVIT

Lizzy Laufer, of lawful age and being first duly sworn, declares as follows:

- 1. My name is Lizzy Laufer, and I am a Landman with COG Operating LLC ("COG"), now a wholly-owned subsidiary of ConocoPhillips.
- I have testified before the New Mexico Oil Conservation Division ("Division") and my
 credentials as an expert witness in petroleum land matters and my credentials have
 been accepted and made a matter of public record.
- 3. I am familiar with the applications filed by COG in these cases and familiar with the status of the lands in the subject area.
- 4. None of the parties proposed to be pooled in these cases have indicated opposition to this proceeding, therefore I do not expect any opposition at hearing.
- COG seeks an order pooling all uncommitted interests in the Wolfcamp formation [Purple Sage Wolfcamp Gas Pool (98220)]:
 - a. In Case No. 21667 underlying a standard 640-acre, more or less, horizontal spacing unit comprised of the E/2 of Sections 7 and 18, Township 26 South, Range 28 East, Eddy County, New Mexico.
 - b. In Case No. 21668 underlying a standard 958.16-acre, more or less, horizontal spacing unit comprised of Lots 1, 2, 3, 4 and the E/2W/2 of Sections 6, 7 and 18, Township 26 South, Range 28 East, Eddy County, New Mexico.
- 6. In Case No. 21667, COG proposes to dedicate the above-referenced horizontal spacing unit to the following proposed initial wells, which it proposes to drill simultaneously:

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Case No. 21667 Exhibit No. 1
Submitted by:
COG OPERATING LLC
Hearing Date: March 4, 2021

- a. Mercury State Com #701H to be drilled from a surface hole location in SW/4SE/4
 (Unit O) of Section 18 to a bottom hole location in the NE/4NE/4 (Unit A) of Section 7;
- b. Mercury State Com #702H to be drilled from a surface hole location in SW/4SE/4
 (Unit O) of Section 18 to a bottom hole location in the NW/4NE/4 (Unit B) of
 Section 7;
- c. Mercury State Com #703H to be drilled from a surface hole location in SW/4SE/4
 (Unit O) of Section 18 to a bottom hole location in the NW/4NE/4 (Unit B) of Section 7;
- 7. In Case No. 21668, COG proposes to dedicate the above-referenced horizontal spacing unit to the following proposed initial wells, which it proposes to drill simultaneously:
 - a. Mercury State Com #704H to be drilled from a surface hole location in SE/4SW/4
 (Unit N) of Section 18 to a bottom hole location in the NE/4NW/4 (Unit C) of
 Section 6;
 - b. Mercury State Com #705H to be drilled from a surface hole location in SE/4SW/4
 (Unit N) of Section 18 to a bottom hole location in Lot 1, Section 6;
 - c. Mercury State Com #706H to be drilled from a surface hole location in SE/4SW/4 (Unit N) of Section 18 to a bottom hole location in Lot 1 of Section 6;
- 8. Attachment A contains Form C-102s for the proposed wells.
- 9. No ownership depth severances exist within the proposed spacing units, and there are no unleased mineral interests in the subject acreage.
- 10. Attachment B depicts the tracts of land comprising the proposed spacing units in these cases. The proposed spacing units include state lands. It also identifies the interest ownership and interest type by tract. COG seeks to pool all uncommitted interests identified in this attachment.
- 11. All interest owners that COG seeks to pool are locatable. COG has conducted a diligent search of all public records in Eddy County, including phone directories and computer databases.
- 12. Attachment C contains well proposal letters and AFEs for each well provided to the working interest owners COG is seeking to pool. The costs reflected on each AFE are

consistent with what other operators have incurred for drilling similar horizontal wells in the area.

- 13. In my opinion, COG has made a diligent effort to reach agreement with the non-joined parties as indicated by the following <u>Chronology of Contact</u>:
 - 10/28/2020 Well proposals and AFEs were sent to all uncommitted working interest owners
 - 3Q2020 Present Ongoing phone and email communication with OXY Y-1
 Company regarding the planned development, proposed JOA and their interest in the unit
 - 11/9/20 Email communication with EOG in regards to technical questions in Mercury projects
 - 12/15/20 COG's proposed form of JOA and Communitization Agreements sent to all uncommitted working interest owners
 - 1/28/2020 Well Proposal Update sent to all uncommitted working interest owners which provided updated total vertical depth for the proposed wells
 - 1/28/21 Email correspondence with Chevron in regards to their working interest.
 Provided estimated spud dates and ask them to send any proposed JOA changes
 - 2/3/2021 Lunch with EOG. Discussed Mercury timing and development
- 14. In my opinion, COG has made a good faith effort to obtain voluntary joinder of the parties it is seeking to pool. If COG reaches an agreement with any of the parties it is seeking to pool before the Division enters an order, I will inform the Division that COG is no longer seeking to pool those parties.
- 15. COG has estimated the overhead and administrative costs for drilling and producing the proposed wells at \$8,000 per month while drilling and \$800 per month while producing. These costs are consistent with what other operators are charging in this area for similar wells.
- 16. I have provided COG's legal counsel a list of names and addresses of the owners COG seeks to pool and instructed that they be notified of this hearing. Additionally, notice of this hearing was timely published in a newspaper of general circulation in Eddy County, New Mexico.

- 17. In my opinion, the granting of COG's application will be in the best interest of conservation, the prevention of waste, and the protection of correlative rights.
- 18. Exhibit 1 and Attachments A through C were either prepared by me or compiled under my direction and supervision.

THIS CONCLUDES AFFIANT'S STATEMENT.

Affiant

STATE OF TEXAS

COUNTY OF MIDLAND

SUBSCRIBED and SWORN to before me this 3

day of March, 2021, by

NOTARY PUBLIC

My Commission Expires:

7-14-2024



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

District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

☐ AMENDED REPORT

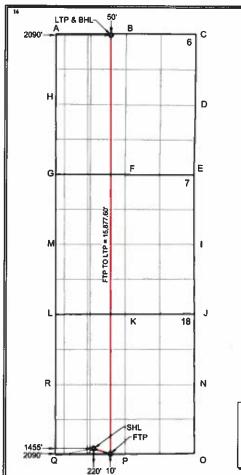
WELL LOCATION AND ACREAGE DEDICATION PLAT

	3 Pool Name		1 API Number	
6 Well Number 704H		5 Pr MERCUR		4 Property Code
9 Elevation 3051'		COG OPI		7 OGRID No.
				7 OGRID No.

1	UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	l
ľ	N	18	26-S	28-E		220'	SOUTH	1455'	WEST	EDDY	ı
				u R∩	ttom Ho	le I ocation I	f Different Ero	m Surface			,

				_			ic Location i	I Different Fic	ill Surface		
UL or lot no	. Se	ection	Townshi	ip	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
С		6	26-S		28-E		50'	NORTH	2090'	WEST	EDDY
12 Dedicated A	cres 13	3 Joint o	r Infill	14 C	onsolidation	Code 15 O	rder No.				
L											

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.



CORNER DATA

- NEW MEXICO EAST N/A FOUND IRON PIPE W/ BRASS CAI N:392448.41' E:561506.47'
- FOUND IRON PIPE W/ BRASS CAP
- C FOUND IRON PIPE W/ BRASS CAP N:392458.75' F:586840 R4
- FOUND IRON PIPE W/ ALUMINUM CAP N:389757.23' E:566835.96'
- E CALCULATED CORNER

- E CALCULATED CORNER
 N:387180.00' E:807971.81'
 F CALCULATED CORNER
 N:387128.11' E:564153.05'
 G CALCULATED CORNER
 N:387128.56' E:561522.79'
 H FOUND IRON PIPE W/ BRASS CAP
- N:389788.71' E:561514.70'
- CALCULATED CORNER N:384488.09' E:566806.40
- J FOUND 60D NAIL IN MOUND OF STONE
- N:381853.52' E:566825.5 K CALCULATED CORNER
- N:381833 41' E:584178 92
- L FOUND IRON PIPE W/ BRASS CAP N:381813.38' E:561538.91'
- M FOUND BENT IRON PIPE
- N:384470.41' E:561530.69' FOUND 1/2" IRON ROD W/ BLUE CAP
- N:379165.69' E:566834,00'
- O CALCULATED CORNER N:376557.95' E:566851.70 P CALCULATED CORNER
- N:376528.00' E:564197.85'
- N:376924.17 E:581554.54*
 R FOUND BENT IRON PIPE NO CAP

LAST TAKE POINT (LTP) & BOTTOM HOLE LOCATION (BHL) NEW MEXICO EAST - NAD 27 X=563596.55 Y=392406.55 LAT.= 32,07867488* N LONG.= 104,12800432* W 50* FNL, 2090* FWL SECTION 6

SURFACE HOLE LOCATION (SHL NEW MEXICO EAST - NAD 27 X=563008.91 Y=376731.63 LAT.= 32.03558678* N LONG.= 104.12999692° 220° FSL, 1455° FWL

NEW MEXICO EAST - NAD 27 X=563644.39 Y=376529.34 LAT.= 32.03502736* N LONG.= 104.12794741* W 10' FSL, 2090' FWL SECTION 18

FIRST TAKE POINT (FTP)

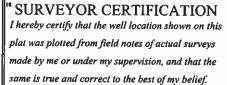
17 OPERATOR CERTIFICATION

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

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico Case No. 21667 Attachment No. A Submitted by:

COG OPERATING LLC Hearing Date: March 4, 2021





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

Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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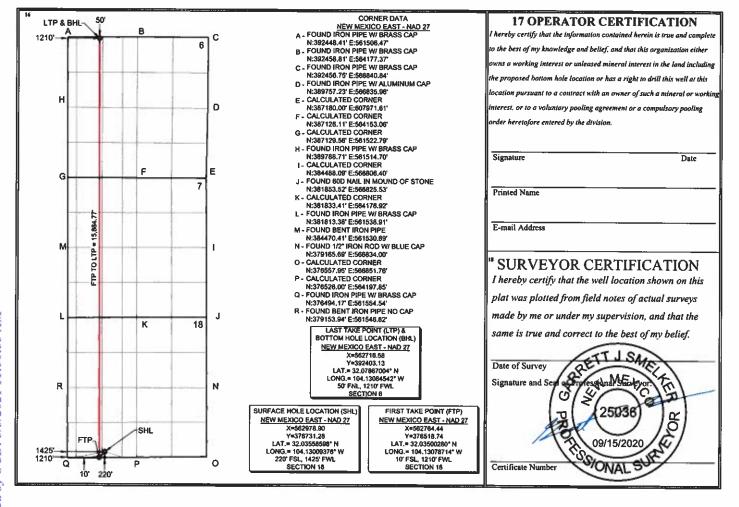
WELL LOCATION AND ACREAGE DEDICATION PLAT

1.	API Number	r		2 Pool Cod	e	*	3 Pool N	ıme	
4 Property	Code			N		rty Name STATE COM			6 Well Number 705H
7 OGRID	No.			(tor Name ATING LLC			9 Elevation 3051'
			"Surface Location						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

N 18 26-S 28-E 220' SOUTH 1425' WEST **EDDY** " Bottom Hole Location If Different From Surface UL or lot no. Section Township Range Lot Idn Feet from the North/South line East/West line Feet from the County 28-E 50' **NORTH** 1210' 1.16 26-S WEST **EDDY**

12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



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

Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410

Phone: (505) 334-6178 Fax: (505) 334-6170 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

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WELL LOCATION AND ACREAGE DEDICATION PLAT

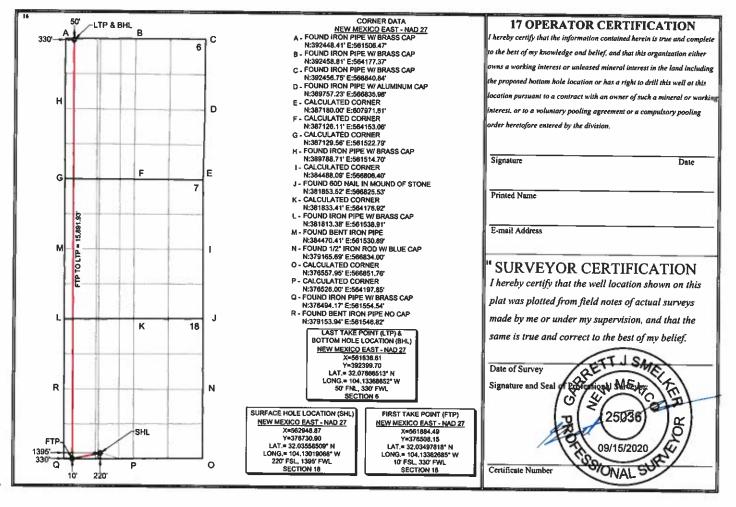
1 API Number	2 Pool Code	2 Pool Code 3 Pool No	
4 Property Code		5 Property Name URY STATE COM	6 Well Number 706H
7 OGRID No.		OPERATING LLC	9 Elevation 3050'

Surface Location UL or lot no. Section Township Range Lot Ida Feet from the North/South line Feet from the East/West line County N 18 26-S 28-E SOUTH 220' 1395 WEST **EDDY**

" Rottom Hole I ocation If Different From Surface

F10 4 .	Bottom fible 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
L1	6	26-S	28-E		50'	NORTH	330'	WEST	EDDY
12 Dedicated Acre	s 13 Joint o	r Infill 14	Consolidation	Code 15 O	rder No.				

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



36C 6, 7265- 7285		SEC 7, 1765-	26C 14, 126G-14, 126G
	TINU	DNIDA9	ZM
SEC 6, 1265- 828E		26C 7, 28G 7, 28G 7,	267 18, 267 18, 267 18,

| TRACT | TRACT 2 | TRACT 3 | UNIT RECAP | 0.22596.48 | 0.225509217 | 0.158280454 | 0.609751151 | 0.003991113 | 0.003983125 | 0.00833055 | 0.016304788 | 0.089562358 | 0.0189049904 | 0.328895361 | 0.014208018 | 0.014179581 | 0.0166611 | 0.045048700 | TOTAL | 1.0000000 **WORKING INTEREST OWNER** CONCHO OIL & GAS LLC COG OPERATING LLC EOG RESOURCES, INC. DXY Y-1 COMPANY

			WI/RT			I AN
PARTIES TO POOL	EOG RESOURCES, INC.	5509 Champions Blvd.	Midland, TX 79706	OXY Y-1 COMPANY	5 Greenway Plaza, Suite 110	Houston, TX 77046

YES	nt YES	YES
Well proposal sent	Communitization Agreement sent	Joint Operating Agreement sent

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Case No. 21667 Attachment No. B
Submitted by:
COG OPERATING LLC
Hearing Date: March 4, 2021



October 28, 2020

Via CMRRR No. 9489 0090 0027 6245 1430 65 and electronic mail to Courtney_carr@oxy.com OXY Y-1 Company 5 Greenway Plaza, Suite 110 Houston, TX 77046 Attn: Courtney Carr

Re: E/2 & W/2 Mercury State Com Units

Mercury State Com 701H-703H E/2 Sections 7 & 18, T26S-R28E Mercury State Com 704H-706H W/2 Sections 6, 7 & 18, T26S-R28E Eddy County, New Mexico BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico
Case No. 21667 Attachment No. C
Submitted by:
COG OPERATION LLC
Henring Data: March 4 2021

Hearing Date: March 4, 2021

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Dear Courtney:

COG Operating, LLC ("COG"), as Operator, hereby proposes the drilling of the following horizontal wells:

E/2 MERCURY STATE COM UNIT

The following wells will have productive laterals located in the E/2 of Sections 7 and 18, Township 26 South, Range 28 East, Eddy County, New Mexico. The surface pad locations will be located in Unit O of Section 18, T26S-R28E (subject to change).

- Mercury State Com 701H, to be drilled to a depth sufficient to test the Wolfcamp A formation at an approximate total vertical depth of 9,190'. The surface location for this well is proposed at a legal location in Unit O of Section 18, and a bottom hole location at a legal location in Unit A of Section 7. The dedicated horizontal spacing unit will be the E/2 of Sections 7 & 18, T26S-R28E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$7,896,000.00, as shown on the attached Authority for Expenditure ("AFE").
- Mercury State Com 702H, to be drilled to a depth sufficient to test the Wolfcamp A formation at an approximate total vertical depth of 9,190°. The surface location for this well is proposed at a legal location in Unit O of Section 18, and a bottom hole location at a legal location in Unit B of Section 7. The dedicated horizontal spacing unit will be the E/2 of Sections 7 & 18, T26S-R28E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$7,896,000.00, as shown on the attached AFE.
- Mercury State Com 703H, to be drilled to a depth sufficient to test the Wolfcamp A formation at an approximate total vertical depth of 9,190'. The surface location for this well is proposed at a legal location in Unit O of Section 18, and a bottom hole location at a legal location in Unit B of Section 7. The dedicated horizontal spacing unit will be the E/2 of Sections 7 & 18, T26S-R28E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$7,896,000.00, as shown on the attached AFE.

October 28, 2020 E/2 & W/2 Mercury State Com Units

W/2 MERCURY STATE COM UNIT

The following wells will have productive laterals located in the W/2 of Sections 6, 7 and 18, Township 26 South, Range 28 East, Eddy County, New Mexico. The surface pad locations will be located in Unit N of Section 18, T26S-R28E (subject to change).

- Mercury State Com 704H, to be drilled to a depth sufficient to test the Wolfcamp A formation at an approximate total vertical depth of 9,190'. The surface location for this well is proposed at a legal location in Unit N of Section 18, and a bottom hole location at a legal location in Unit C of Section 6. The dedicated horizontal spacing unit will be the W/2 of Sections 6, 7 & 18, T26S-R28E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$10,622,000.00, as shown on the attached Authority for Expenditure ("AFE").
- Mercury State Com 705H, to be drilled to a depth sufficient to test the Wolfcamp A formation at an approximate total vertical depth of 9,190'. The surface location for this well is proposed at a legal location in Unit N of Section 18, and a bottom hole location at a legal location in Lot 1 of Section 6. The dedicated horizontal spacing unit will be the W/2 of Sections 6, 7 & 18, T26S-R28E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$10,622,000.00, as shown on the attached AFE.
- Mercury State Com 706H, to be drilled to a depth sufficient to test the Wolfcamp A formation at an approximate total vertical depth of 9,190'. The surface location for this well is proposed at a legal location in Unit N of Section 18, and a bottom hole location at a legal location in Lot 1 of Section 6. The dedicated horizontal spacing unit will be the W/2 of Sections 6, 7 & 18, T26S-R28E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$10,622,000.00, as shown on the attached AFE.

COG is proposing to drill these wells under the terms of two new Operating Agreements which will follow under separate cover.

In the interest of time, if we do not reach an agreement 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 horizontal spacing unit for the proposed wells.

Please indicate your participation elections in the space provided below, sign and return this letter, along with a signed copy of the enclosed AFEs and a copy of your geologic requirements, to my attention at the letterhead address or by email to elaufer@concho.com. Should you have any questions, please do not hesitate to contact me at 432.221.0470.

Released to Imaging: 3/3/2021 11:51:08 AM

Sincerely,

COG Operating LLC

Lizzy Laufer Landman II

LL:bh Enc October 28, 2020 E/2 & W/2 Mercury State Com Units

Please Indicate your election below:

WELL NAME	WELL NAME PARTICIPATE Elect to participate in drilling & completion of well				
Mercury State Com 701H					
Mercury State Com 702H					
Mercury State Com 703H	 				
Mercury State Com 704H					
Mercury State Com 705H					
Mercury State Com 706H					

OXY Y-1 COMPANY

Ву:	
Name:	
Title:	 -
Date:	

Well Name MERCURY STATE COM 701H
8ML SEC 18: 220 FSL, 1400 FEL, OR UNIT O
BHL SEC 7: 50 FNL, 550 FEL, OR UNIT A
Formation WOLFCAMP A
Legal 7 & 18, 126S-R28E
AFE Numbers

Prospect ATLAS 2628 State & County NEW MEXICO, EDDY Objective DRILL & COMPLETE Depth 19,000 TVD 9,190

est Description tangible Costs	Code	Pre8pud (P8)	Pre-Set Casing (PC)	Drilling (DR)	Completions (C	Tank Bitty Constrctn(TB	Pmpq Equip (PEC	Revision	303
Lctn/Pits/Roads	205			\$ 89,000.00				T\$ T\$	89.0
Drilling Overhead	206			\$ 7,000.00				3 3	7,0
Daywork Contract	209	9 7 7		\$ 484,000.00	1750			3 5	484.0
Directional Drig Services	210	0		\$ 258,000.00		970 -		3 3	258.0
Fuel & Power	211			\$ 84,000.00				3 3	84,0
Water Bits	212			\$ 70,000.00		102		8 8	70,0
	213			\$ 89,000.00	0.10			\$ \$	89,0
Mud & Chemicals	214			\$ 182,000.00				8 8	182,0
Cement Surface Cement Intermed	217			\$ 18,000.00				3 8	18,0
Prod-2nd Int Cmt	218 219			\$ 70,000.00				\$ \$	70,0
Float Equipment & Centralizers	221							\$ \$	103,0
Csg Crews & Equip	222						- 77	1 1	56,0
Contract Labor	225	-						5	61,0
Company Sprvsn	226				_			3 5	7,0
Contract Sprvsn	227			\$ 41,000.00 \$ 101,000.00				8 8	41,0
Tsig Csg/Ttg	228			\$ 38,000.00				8 8	101,0
Mud Logging Unit	229			\$ 38,000.00	_			8 8	38,0
Rentals-Surface	235							\$ 8	38,0
Rentals-Subsrito	236	-						8 8	157,0
Trucking# orklift/Rig Mob	237			\$ 73,000.00 \$ 150,000.00				8 8	73.0
Welding Services	238							\$ \$	150 0
Contingency	243			\$ 3,000.00 \$ 56,000.00				3 3	3,0
nymmt/Cisd Loop	244			\$ 247,000.00				\$ 8	58,0
Veilbore Frac Prep	304			241,000.00	\$ 95,000.00			\$ 8	247,0
.ctn/Pits/Roads	305	17.0	-					8 8	95,0
empletion OH	308				\$ 10,000.00 \$ 15,000.00			5 5	10,6
rac Equipment	307		200		\$ 648,000.00			3 3	15,0
rac Chemicals	308				\$ 648,000.00			3 5	646,0
rac Proppent	309			-	\$ 410,000.00 \$ 186,000.00			\$ \$	410,0
rac Proppent Transportation	310							5 5	188,0
uel Delivery & Services	311				\$ 289,000.00 \$ 42,000.00		1/2	5 5	289,0
Vater	312							8 8	42,0
rac Surface Rentels	315				\$ 273,000.00 \$ 258,000.00			5 5	273,0
ontract Labor	325							5 5	258 (
ompany Sprvsn					\$ 10,000.00			\$ 5	10,0
Contract Sprvsn	326 327	_			\$ 10,000.00			\$ 5	10,0
rtifical Lift Install	329				\$ 138,000.00 \$ 45,000.00			\$ \$	138,0
erf/WireIne Svc	331				10,000,00			8 8	45.0
rucking/Forklift/Rig Mob	337				\$ 317,000,00			\$ \$	317.0
Vater Disposal	339				\$ 10,000.00			\$ \$	10,0
Contingency	343				40,000.00				40,0
yed Diesel	345				\$ 74,000.00			\$ 8	74,0
rillout	346				\$ 155,000.00			\$ 8	155,0
Damages/Right of Way	351				\$ 295,000.00			\$ \$	295,0
Location/Pits/Roads	353					\$ 2,000.00		\$ \$	2,0
Contract Labor	356	_				\$ 34,000.00		\$ \$	34,0
2-Contract Labor	374	_				\$ 180,000.00		\$ \$	180,0
-Water Disposel	387						\$ 39,000.00		39,0
2-HRZ Well Offset Frac	391						\$ 179,000.00		179,0
al Intangible Costs	361						\$ 18,000.00		18,0
			•	\$ 2,482,000.00	\$ 3,318,000.00	\$ 216,000.00	\$ 236,000.00	- 8	6,252,0
pible Costs - Flowback Crews & Equip	392								
Inface Casing	401			\$ 20,000.00			\$ 108,000,00		108,0
termed Cag	402			\$ 155,000.00				3	20.0
roduction Casing/Liner	403	-		\$ 385,000.00				3 5	155,0
elihead Equip	405			\$ 70,000.00	-			1	385.0
ubing	504			- 10/pro//90	\$ 52,000.00			3 8	70,0
althead Equip	505				\$ 28,000.00			3 3	52,0
Tenks	510				20,000,00	\$ 58,000.00			28,0
lowlines/Pipelines	511					\$ 28,000.00			58,0
itr Trtr/Seprir	512					\$ 185,000.00			26,0
lectrical System/Equipment	513					\$ 114,000.00		3 3	185,0
krs/Anchors/Hgrs	514				\$ 64,000.00	114,000,00			114,0
ouplings/Fittings/Valves	515				57,000.00	\$ 192,000.00		5 5	64,0
umps-Surface	521				-	\$ 26,000.00			192,0
nstrumentation/SCADA/POC	522					\$ 20,000.00			26,0
Aiscellaneous	523	1000		100,000		\$ 20,000.00		5 5	20,0
Meters/Lacts	525							3 8	20,0
lares/Combusters/Emission	526					\$ 26,000,00 \$ 31,000,00		\$ \$	28,0
as Lift/Compression	527				\$ 25,000.60	31,000.00		5 5	31,0
Wellhead Equipment	531				23,000.00		\$ 20,000.00	\$ \$	25,0
I Tangibie Costs		3		\$ 630,000.00	\$ 169,000.00	4 465 000 00	\$ 39,000.00		39,0
				4 000,000,000	4 103,000,00	\$ 698,000.00	\$ 147,000,00	1	1,644,0
Gross Cost			- 1	\$ 3,112,000.00	A 4400 I	\$ 914,000.00	\$ 383,000.00	8 . 8	7,896,0

COG Operating LLC	
By:	Date Prepared:
We approva:	COG Operating LLC
% Working Interest	Ву:
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.

COG OPERATING LLC AUTHORITY FOR EXPENDITURE **Drill & Complete**

Weil Name MERCURY STATE COM 702H

8ML SEC 18: 220 FSL, 1430 FEL, OR UNIT O

8ML SEC 7: 50 FNL, 1430 FEL, OR UNIT B
Formation WOLFCAMP A
Legal 7 & 18, T26S-R28E

AFE Numbers

Prospect ATLAS 2628 State & County NEW MEXICO, EDDY Objective DRILL & COMPLETE Depth 19,000 TVD 9,190

ST DESCRIPTION 1	-								
st Description angible Costs	Code	PreSpud (P8)	Pre-Bet Casing(PC)	Drilling (DR)	Completions (C)	Tank Bity Constrctn(T)	Pmpq Equip (PEC	() Revision	
cinPtts/Roads	205			\$ 89,000.00			T	15 .	\$ 89,6
Oriting Overhead	206	- S		\$ 7,000.00		1		1	
Daywork Contract	209	N 500		\$ 484,000.00					\$ 7,
irectional Drig Services	210			\$ 258,000.00				1	\$ 484,0
uel & Power	211							\$	\$ 258,
				\$ 84,000,00				\$	\$ 84,
Vater	212			\$ 70,000.00		13.00	-	\$	\$ 70,
its	213	5 P/V		\$ 89,000.00	057			\$.	\$ 89.
lud & Chemicals	214		117	\$ 182,000.00				1	
ement Surface	217			\$ 18,000.00			+		\$ 162,
bernetint treme	218							\$	\$ 18,
				\$ 70,000.00				\$	\$ 70
rod-2nd Int Crnt	219			\$ 103,000.00				18 -	\$ 103
loat Equipment & Centralizers	221	7		\$ 58,000.00	-		100 400	8 -	\$ 56
ng Crews & Equip	222	\$ -t.		\$ 61,000.00				1	\$ 61
ontract Labor	225	100		\$ 7,000.00				1.	
ompany Sprvan	226			\$ 41,000.00					\$ 7
ontract Sprvsn	227				-			\$	\$ 41
				\$ 101,000.00				\$.	\$ 101,
stg Csg/Tbg	228	700		\$ 38,000.00		130 Aug -	5 - A 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -	\$.	\$ 38
led Logging Unit	229	S		\$ 38,000.00	137/17 138-5			3	\$ 38.
entals-Surface	235		2	\$ 157,000.00					
entals-Subsrfc	236			\$ 73,000.00			1		\$ 157.
rucking/Fork/ift/Rig Mob	237								\$ 73,
				150,000.00				1	\$ 150
elding Services	238	1000		\$ 3,000.00			2 2/	\$.	\$ 3
ontingency	243	1		\$ 56,000.00	48 6		1000		\$ 56
nwmmt/Cisd Loop	244		N -22 S	\$ 247,000.00		7.5			\$ 247
/ellbore Frec Prep	304		- 700 70		\$ 95,000.00	7.10.00			
tn/Pits/Roads	305						+		\$ 95
		-						3	\$ 10
empletion OH	306				\$ 15,000.00			\$	\$ 15
ac Equipment	307		1000		\$ 648,000.00				\$ 648.
rac Chemicals	308		77.2		\$ 410,000.00	2 -			\$ 410
rac Proppant	309	0.00	1000		\$ 186,000.00	10.1			\$ 188.
rec Proppant Transportation	310				\$ 289,000.00		+		
sel Delivery & Services	311								\$ 289,
ater					\$ 42,000.00				\$ 42,
	312				\$ 273,000.00			8	\$ 273,
ac Surface Rentals	315		- 12	3	\$ 258,000.00	17%	1000000	\$.	\$ 258.
ontract Labor	325	T-10	100	11	\$ 10,000.00			\$	\$ 10.
ompany Sprvan	326	1000			\$ 10,000.00			3	
ontract Sprvsn	327				\$ 138,000.00				7 10
rtificial Lift Install	329		_						\$ 138
					\$ 45,000.00			\$ -	\$ 45,
ert/Wireline Svc	331				\$ 317,000.00			8	\$ 317,
ucking/Forklift/Rig Mob	337			2960 5	\$ 10,000,00			\$.	\$ 10.
faler Disposal	339	13. 33	15 79 2		\$ 40,000.00				\$ 40.
ontingency	343				\$ 74,000.00				
red Diesel	345				\$ 155,000.00		+		\$ 74,
rillout	346	-							\$ 155,
					\$ 295,000.00			\$	\$ 295,
amages/Right of Way	351					\$ 2,000.00		3 -	\$ 2.
ocation/Pits/Roads	353				773	\$ 34,000.00			\$ 34,
Contract Labor	356					\$ 180,000.00			
-Contract Labor	374					100,000.00			19.91
-Water Disposal	387								\$ 39,
							\$ 179,000.00		\$ 179,
-HRZ Well Offset Frac	391						\$ 18,000.00	\$ -	\$ 18,
f Intangible Costs	-		\$	\$ 2,482,000.00	\$ 3,318,000.00	\$ 216,000.00	\$ 236,000.00	1	\$ 5,252,
jihle Coets							1		0,404,
-Flowback Crews & Equip	392		Т				\$ 108,000.00		\$ 108,
rriace Casing	401		100	\$ 20,000.00			130,000.00		
termed Csg	402			5 155,000.00					
aduction Casing/Liner	403		-				-		\$ 155,
				- 000,000.00					\$ 385
elihead Equip	405			\$ 70,000.00	337			\$	\$ 70.
pling	504				\$ 52,000.00	2 - 0 70			\$ 52
elfhead Equip	505		17,049	27	\$ 28,000.00				\$ 28
anks	510	-	7.7			\$ 58,000,00			
iowlines/Pipelines	511								
itr Tritr/Seprir	512								\$ 26,
			-			\$ 185,000.00			\$ 185,
lectrical System/Equipment	513			1000	And the second second	\$ 114,000.00		\$.	\$ 114,
krs/Anchors/Hgrs	514	2017		60. 1	\$ 64,000.00				\$ 64,
ouplings/Fittings/Valves	515	100		400		\$ 192,000.00			\$ 192.
umps-Surface	521	2000 - 7				A 40 000 00			
strumentation/SCADA/POC	522					\$ 28,000.00			\$ 26,0
						\$ 20,000.00			20/
iscellaneous	523				0 03.0	\$ 20,000.00		3	\$ 20,
feters/Lects	525			85		\$ 26,000 00			\$ 26,
lares/Combusters/Emission	528	- 11 - 10 - 5	- 37 3			\$ 31,000.00			
is Lift/Compression	527				\$ 25,000.00	31,000 00			\$ 31,
-Weithead Equipment	531				+ 23,000.00		t		\$ 25,0
							\$ 39,000.00		\$ 39,0
		5 - 1	\$ () . () . () . () . ()	\$ \$30,000.00	\$ 169,000.00	\$ 698,000.00	\$ 147,000.00	A CONTRACTOR OF THE PARTY OF TH	
Tangible Costs		100000000000000000000000000000000000000		\$ 630,000.00	4 100,000,00	4 030,000.00	147,000.00		\$ 1,644,0
		8			\$ 3,487,000.00				

COG Operating LLC	
Ву:	Date Prepared:
We approve:	COG Operating LLC
% Working Interest	Ву:
Gompany: By:	
Printed Name: Title: Date:	This AFE is only an estimate. By signing you agree to pay your share of the actual costs incurred.

COG OPERATING LLC AUTHORITY FOR EXPENDITURE Drill & Complete

Well Name MERCURY STATE COM 703H

3ML SEC 19: 220 FSL, 1480 FEL, OR UNIT O

BML SEC 7: 50 FNL, 2310 FEL, OR UNIT B
FORMATION WOLF-CAMP A
Legat 7 & 18, 728S-R28E

AFE Numbers

Prospect ATLAS 2628 State & County NEW MEXICO, EDDY Objective DRILL & COMPLETE Depth 19,000 TVD 9,190

AFE Numbers								30	
Cost Description Intangible Costs	Code	PreSpud (P8)	Pre-Set Casing(PC)	Drilling (DR)	Completions (C	Tank Bitty Constrctn(TB	Pmpq Equip (PEQ	Revision	Total
D-Lcin/Pits/Roads	200	Maria Congression			Name and Address of the Owner, where				
	205			\$ 89,000.00				\$	\$ 89,000.0
D-Drilling Overhead	206			\$ 7,000.00				\$	\$ 7,000.0
D-Daywork Contract D Dispertional Data September	209			\$ 484,000.00				3	\$ 484,000.00
D-Directional Drig Services D-Fuel & Power	210		_	\$ 258,000.00				8 -	\$ 258,000.00
D-Water	211			\$ 84,000.00	_			\$	\$ 84,000.0
D-Bits	212			\$ 70,000.00				\$.	\$ 70,000.0
D-Mud & Chemicals	214			\$ 69,000.00				3	\$ 89,000.0
D-Cement Surface	217			\$ 182,000.00 \$ 18,000.00					\$ 182,000.0
D-Cement Intermed	218								\$ 18,000.0
D-Prod-2nd Int Cont	219			\$ 70,000.00 \$ 103,000.00				\$	\$ 70,000.00
D-Float Equipment & Centralizers	221			\$ 58,000.00				3	\$ 193,000.0
D-Cag Crews & Equip	222			\$ 61,000.00	_			8 .	\$ 56,000.0
D-Contract Labor	225			\$ 7,000.00				\$.	\$ 61,000.0
D-Company Sprvsn	228			\$ 41,000.00				3	\$ 7,000.0
D-Contract Sprvse	227			\$ 101,000.00				\$	\$ 41,000.0
D-Tsig Csg/Tbg	228			\$ 38,000.00					\$ 101,000.00
D-Mud Logging Unit	229			\$ 38,000.00					\$ 38,000.0
D-Rentals-Surface	235	C. 14 (14)		157,000.00				5 .	\$ 38,000 00
D-Rentals-Subsrtc	236	-		\$ 73,000.00					\$ 157,000.00
D-Trucking/Forklift/Rig Mob	237			\$ 150,000.00				\$ -	\$ 73,000.00
D-Welding Services	238	-		\$ 3,000.00	-				\$ 150,000.00
D-Confingency	243	S		\$ 56,000.00		10.7			\$ 3,000.0 \$ 56,000.0
D-Envmmt/Clad Loop	244		-	\$ 247,000.00				5 .	\$ 56,000.0 \$ 247,000.0
C-Wellbore Frac Prep	304				\$ 95,000.00				
C-Lctn/Pits/Roads	305	- 2			\$ 10,000.00		-	1	\$ 95,000.00 \$ 10,000.00
C-Completion OH	306				\$ 15,000.00			1	\$ 10,000.00 \$ 15,000.00
C-Frac Equipment	307	2 2			\$ 648,000.00			1	\$ 646,000,00
C-Frac Chemicals	308				\$ 410,000.00				\$ 410,000,00
C-Frec Proppant	309			595	\$ 188,000.00			\$	\$ 186,000.00
C-Frac Proppent Transportation	310			100	\$ 289,000,00			8	\$ 289,000.00
C-Fuel Delivery & Services	311	10000	200		\$ 42,000.00				\$ 42,000.00
C-Water	312	1000	1.77		\$ 273,000.00	(a)		-	\$ 273,000.00
C-Frac Surface Rentals	315		S		\$ 258,000,00				\$ 258,000.00
C-Contract Labor	325	146			\$ 10,000.00			8	\$ 10,000.00
C-Company Sprvsn	326				\$ 10,000.00				\$ 10,000.00
C-Contract Sprvsn	327				\$ 138,000.00				\$ 138,000.00
C-Artificial Lift Instell	329				\$ 45,000.00			\$.	\$ 45,000.00
C-Pert/Wireline Svc	331	1900			\$ 317,000.00	7 - Carry - 1		3	\$ 317,000.00
C-Trucking/Forklift/Rig Mob	337	No. 1	200		\$ 10,000.00				\$ 10,000.00
C-Water Disposal	339	0.00		- 125	\$ 40,000.00	2 - 12		8	\$ 40,000.00
C-Contingency	343			0010	\$ 74,000.00				\$ 74,000.00
C-Dyed Diesel	345				155,000,00			\$	\$ 155,000.00
C-Drillout	348	- 3		107.0	\$ 295,000.00	8 8		\$	\$ 295,000.00
TB-Damages/Right of Way	351				- 86	\$ 2,000.00		\$	\$ 2,000,00
TB-Location/Pits/Roads	353			2,55%.5		\$ 34,000.00		\$.	\$ 34,000.00
TB-Contract Labor	358	-				\$ 180,000.00		8	\$ 180,000.00
PEQ-Contract Labor	374 387						\$ 39,000.00		\$ 39,000.00
PEQ-Water Disposal PEQ-HRZ Well Offset Frac			-				\$ 179,000.00		\$ 179,000.00
	391						\$ 18,000.00		\$ 18,000.00
Total Intangible Costs			\$ 1000 -	\$ 2,482,000.00	\$ 3,318,000.00	\$ 216,000.00	\$ 236,000.00		\$ 6,252,000.00
Vanantia Canta	-							200	The second
Tangible Costs	200						The second second		
PEQ-Flowback Crews & Equip D-Surface Casing	392 401						\$ 108,000,00		\$ 108,000.00
D-Intermed Cag				\$ 20,000.00					\$ 20,000.00
D-Production Casing/Liner	402 403			\$ 155,000.00			1817		\$ 155,000.00
D-Weithead Equip	405			\$ 385,000,00					\$ 385,000.00
C-Tubing	504			\$ 70,000.00	8 50 000 CC				\$ 70,000 00
C-Wellhead Equip	505				\$ 52,000.00				\$ 52,000.00
IB-Tanks	510				\$ 28,000.00	* *******			\$ 28,000.00
TB-Flowlines/Pipelines	511	-				\$ 58,000.00			\$ 58,000.00
TB-Hitr Tritr/Sepritr	512					\$ 26,000.00			\$ 26,000.00
TB-Electrical System/Equipment	513			_		185,000.00			\$ 185,000.00
C-Pckrs/Anchors Hers	514				\$ 64,000.00	\$ 114,000.00			\$ 114,000.00
B-Couplings/Fittings/Valves	515				- 64,000.00	4 485 505 50			\$ 84,000.00
TB-Pumps-Surface	521				-	\$ 192,000.00			\$ 192,000.00
TB-Instrumentation/SCADA/POC	522					\$ 26,000.00 \$ 20,000.00			\$ 26,000,00
TB-Miscellaneous	523		-	22.17					\$ 20,000.00
B-Meters/Lacts	525					\$ 20,000.00 \$ 28,000.00			\$ 20,000.00
TB-Flares/Combusters/Emission	528					\$ 31,000.00			\$ 26,000.00
Gas Lift/Compression	527			1850	\$ 25,000.00	31,000.00	-		\$ 31,000.00
PEQ Wellhead Equipment	531				20,000,00		\$ 39,000,00		\$ 25,000.00
Total Tangible Costs		1		\$ 630,000.00	\$ 169,000.00	8 400 000 00			\$ 39,000 00
	-		- 181	000,000,00	0 198,000.00	\$ 698,000.00	\$ 147,000.00		\$ 1,844,000.00
Fotal Gross Cost	.5000			8 3 440 000 CO T	0 0 000 000 00				
				\$ 3,112,000.00	\$ 3,487,000.00	\$ 914,000.00	\$ 383,000.00	1	\$ 7,896,000.00
lote: The above costs are estimate	sonty. At	ruel costs will be	Direct as incurred.	1000	1: 45		Transfer of the second	attack) I have been	Virtual Village

COG Operating LLC			
Ву:		Date Prepared:	
Ne approve:		COG Operating LLC	
% Working Interest		Ву:	
Company:			
Зу:			
Printed Name:			
litie:		This AFE is only an estimate. By signing you agree to pay	
3444			

Weil Name MERCURY STATE COM 704H
8HL 18: 220 FSL 1455 FWL, OR UNIT N
8HL 8: 50 FNL, 2090 FWL, OR UNIT C
FORMETION WOLFCAMP A
Legal 6, 7 & 18, T285-R28E
AFE Numbers

Prospect ATLAS 2628 State & County NEW MEXICO, EDDY Objective ORILL & COMPLETE Depth 24,000 TVD 9,190

ost Description	Code	PreSpud (PS) Pre-Set Casing(PC)	Drilling (DR	Completions (Tank Bity Constroin(TE	Pmpq Equip (PEQ)	Revision	
tangible Costs							110.10101	12 3
Lctn/Pits/Roads	205		\$ 121,000.00		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18	- 3	121
Drilling Overhead	208		\$ 10,000.00	335/		1	/ 8	10
Daywork Contract	209		\$ 655,000.00			1	. 1	655
Directional Drig Services	210		\$ 349,000.00			1 1	. 1	349
uel & Power	211		\$ 113,000.00			1 13	- 1	349
Vater	212		\$ 95,000.00					113
3/ts	213		\$ 121,000.00				- 1	95
Mud & Chemicals	214					\$	- 18	121
			\$ 248,000.00			1	. \$	248
Cement Surface	217		\$ 25,000.00				. 5	25
Cement intermed	218	10.0	\$ 95,000.00			- 1	- 3	95
Prod-2nd Int Cmt	219		\$ 140,000.00			8	- 3	140
Float Equipment & Centralizers	221		\$ 76,000.00					
Csg Crews & Equip	222		\$ 83,000.00					76
Contract Labor	225		\$ 9,000.00					83
Company Sprvsn	226			-		3		9
			\$ 55,000.00			5		55
Contract Sprvsn	227		\$ 137,000.00				1 \$	137
Tsig Csg/Tbg	228		\$ 51,000.00			1 1	- 1	51
Mud Logging Unit	229	July 1 25 25 25	\$ 51,000,00			1		
Rentals-Surface	235		\$ 213,000.00					51
Rentals-Subsric	236							213
Rentals-Subsric Trucking/Forklift/Rig Mob	237						. \$	99
Andrew Condes			\$ 203,000.00				. \$	203
Welding Services	238	1 700	\$ 4,000.00			1 5	1 5	4
Contingency	243		\$ 76,000.00		100	1	- 1	76
Envmmtl/Clsd Loop	244		\$ 334,000.00			1		
Wellbore Frec Prep	304	912 - 11		\$ 139,000,00			- 1	334
Lctn/Pits/Roads	305					8	- 8	139
				\$ 15,000.00				15
Completion OH	306			\$ 22,000.00		5	· \$	22
Frec Equipment	307			\$ 948,000.00			- 8	948
Fred Chemicals	308		1000	\$ 601,000.00	State of the State	1 1	1 1	601
Frac Proppent	309			\$ 273,000.00		1		
Frac Proppent Transportation	310			\$ 424,000.00			. \$	273
Fuel Delivery & Services	311							424
Mate				\$ 61,000.00			\$ Vo. 9	61,
Water	312			\$ 401,000.00	6 6 7	1	. 15	401,
Frac Surface Rentals	315			\$ 378,000.00		3	. 3	378
Contract Labor	325			\$ 15,000.00		1	. 1	
Company Sprvsn	326			\$ 15,000.00			. 1	15
Contract Sprvsn	327			\$ 202,000.00		8		15,
Artificial Lift Install	329	$\overline{}$				3	. \$	202
				\$ 65,000.00				85,
Perf/Wireline Svc	331			\$ 466,000.00		3	- 13	486
Trucking/Forklift/Rig Mob	337		2.7	\$ 15,000.00	1000	1 5	. \$	15,
Water Disposal	339		A-4-1	\$ 58,000.00		3	. 13	
Contingency	343		100	\$ 108,000.00		1	. 15	58,
Dyed Diesel	345			\$ 227,000.00				108
Drillout	346					- 1		227
Discourses (Discht of May)	351		-	\$ 432,000.00			- \$	432,
-Lienting es/Right of Way			4/4		\$ 2,000.00		- 1	2,
-Demages/Right of Way -Location/Pits/Roads	353			- W	\$ 34,000.00	1		34.
-Contract Labor	356		- 200		\$ 160,000.00	1	. 15	
Q-Contract Labor	374				1	\$ 39,000.00 \$		180,
Q-Water Disposel	387					39,000.00 \$	- 13	39
						179,000.00		179
Q-HRZ Well Offset Frec	391					\$ 18,000.00 \$. 3	18,
tal Intangible Costs	100		\$ 3,361,000.00	\$ 4,865,000.00	\$ 216,000.00	\$ 236,000.00 \$. 8	8,678,
1.713 220								0,010,
ngible Costs					T			_
- Flowback Crews & Equip	392					\$ 108,000.00 \$	- 1.	-
Surface Casing	401		\$ 27,000.00					108
ntermed Csg	402							27
			2.0,000				\$	210,
Production Casing/Liner	403	and the second s		2.5	to the second se	\$	- 8	521,
Welthead Equip	405	4100 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	\$ 95,000.00	To the second second		15	. 5	95,
Tubing	504		27	\$ 75,000.00			30 10 1	75
Wellhead Equip	505	50 70		\$ 41,000.00		15		
Tanks	510			41,350.00				41,
	511				\$ 58,000,00	\$	- 5	58,
	512				\$ 26,000.00			26,
Flowlines/Pipelines			0.000	1 (45.7)	\$ 185,000.00	3	. 1	185,
Flowlines/Pipelines Htr Trtr/Seprir					\$ 114,000.50	- 1	. 1	114,
Flowrines/Pipelines Htr Trtr/Seprir Electrical System/Cauloment	513		1 10	\$ 94,000,00				
Flowines/Pipelines Hit Tritr/Seprir Electrical System/Usuloment				37,000.00	E 400'000'00			94,
Flowines/Pipelines Hitr Trit/Sepril Electrical System/Liquipment Pokrs/Anchors/Higrs	513 514	\rightarrow	177		\$ 192,000.00			192,
Flowlines Pipelines Hir Trin/Suprir Electrical System/Liquipment Pokrs/Auchors/Highs Couplings/Fittings/Valves	513 514 515		77.					26,
Flowlines Pipelines Hir Tru/Seprir Electrical System/Liquipment Pokrs/Anchors/Highs Couplings/Fittings/Valves Pumps-Surface	513 514 515 521				\$ 26,000.00		. \$	
Flowfines/Pipelines -Hir Tru/Seprir -Electrical System/Equipment -Pokrs/Anchors/Higrs -Couplings/Fittings/Valves -Pumps-Surface -Instrumentation/SCADA/POC	513 514 515 521 522				20,000.00	\$		
Flowlines Pipelines Hir Tur/Seprir Electrical System/Equipment ckrs/Archres/Higs Couplings/Fittings/Valves Pumps-Surface Instrumentation/SCADA/POC Miscellaneous	513 514 515 521 522				\$ 20,000.00		. \$	20,
Fowlines Pipelines -Her Transprir -Electrical System Equipment -ckrs/Anches/Higs -Couplings/Fittings/Valves -Pumps-Surface -Instrumentation/SCADA/POC -Miscellaneous	513 514 515 521 522				\$ 20,000.00 \$ 20,000.00	\$	- 5	20
FlowinesPipelines Hit Tru/Seprir Electrical System/Equipment clussAncchersHigns Couplings/Fittings/Valves Pumps-Sursece Instrumentation/SCADAPOC Miscellaneous Meters/Lects Meters/Lects	513 514 515 521 522 523 525				\$ 20,000.00 \$ 20,000.00 \$ 26,000.00	\$ \$ \$	- 8	20 20 28
Flowines-Pipelines Hird-Spain Einchteal System-Equipment Coupings-Fittings/Valves Pumps-Surface Instrumentation/SCADA-POC Miscellaneous Meters/Lects Flares/Combusters/Emission	513 514 515 521 522 523 525 526				\$ 20,000.00 \$ 20,000.00	\$ \$ \$	- 5 - 5 - 5	20 20 26 31
Flowines/Pipelines Hit Tru/Seprir Electrical System/Equipment ckrs/Anchors/Higs Couplings/Fritings/Valves Pumps-Surface instrumentation/SCADA/POC Miscellanes/Miscellanes/ Meters/Lects Flores/Combusters/Emission ass Lift/Compression	513 514 515 521 522 523 525 526 527			\$ 38,000.00	\$ 20,000.00 \$ 20,000.00 \$ 26,000.00	\$ \$ \$ \$	- 8	20 20 26 31
FlowinesPipelines Hit Tru/Seprit Electrical System/Equipment clussAnochersHigs Couplings/Fittings/Valves Pumps-Surface Instrumentation/SCADA/POC Miscellaneous Meters/Lects Flares/Combusters/Eurission Ses Unificompression	513 514 515 521 522 523 525 526			\$ 36,000.00	\$ 20,000.00 \$ 20,000.00 \$ 26,000.00	\$ \$ \$	- 5 - 5 - 5 - 5	20,0 20,0 26,0 31,0 38,0
Flowlines Pipelines Hir Tur/Seprir Electrical System/Equipment ckrs/Archres/Higs Couplings/Fittings/Valves Pumps-Surface Instrumentation/SCADA/POC Miscellaneous	513 514 515 521 522 523 525 526 527		8 853,000.00		\$ 20,000.00 \$ 20,000.00 \$ 28,000.00 \$ 31,000.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$. \$. \$. \$. \$. \$. \$. \$. \$. \$. \$	20,0 20,0 31,0 38,0 39,0
FlowinsexPipelines Hit Tru/Seprit Electrical System/Equipment ckrs/Anchers/Higs Couplings/Fittings/Valves Pumps-Surface Instrumentation/SCADA/POC Miscellaneous Miscellane	513 514 515 521 522 523 525 526 527		8 853,000.00	\$ 38,000.00 \$ 245,000.00	\$ 20,000.00 \$ 20,000.00 \$ 26,000.00	\$ \$ \$ \$. \$. \$. \$. \$. \$. \$. \$. \$. \$. \$	20,0 20,0 26,0 31,0 38,0

COG Operating LLC	· · · · · · · · · · · · · · · · · · ·
Ву:	Date Prepared:
We approve:	COG Operating LLC
% Working Interest	Ву:
Company:	
Printed Name:	
Title:	This AFE is only an estimate. By signing you agree to pay

COG OPERATING LLC AUTHORITY FOR EXPENDITURE **Drill & Complete**

Well Name MERCURY STATE COM 705H

8HL 18: 220 FSL, 1425 FWL, OR UNIT N

8HL 6: 50 FNL, 1210 FWL, OR LOT 1

Formation WOLFCAMP A

Legal 8, 7 & 18, T28S-R28E

AFE Numbers

Prospect ATLAS 2828 State & County NEW MEXICO, EDDY Objective DRILL & COMPLETE Depth 24,000 TVD 9,190

AFE Numbers	400							140	D 9,190	
Cost Description	Code	PreSpud (P8)	Pre-Set Casing(PC)	Drilling (DR) Com	pletions (C)	Tank Bity Constroin(TB) Pmpq Equip (PEC) Revisi	on
ntangible Costs		O DESCRIPTION			1000	Control of the last				All the second
D-Lctn/Pas/Roads	205			\$ 121,000.00					3 -	\$ 121
D-Drilling Overhead	208		7.77	\$ 10,000.00					\$	
D-Daywork Contract	209			\$ 655,000.00				-		
D-Directional Drig Services	210			\$ 349,000.00					\$.	
D-Fuel & Power	211								\$.	
				\$ 113,000.00					\$	\$ 113
p-Water	212			\$ 95,000.00		-	1970.9	110	3	
D-Bits	213	5 77		\$ 121,000.00					1	\$ 121
0-Mud & Chemicals	214	3.77	10.00	\$ 246,000.00		- 11				
D-Cement Surface	217			\$ 25,000.00					\$.	
D-Cement Intermed	218								\$.	\$ 25.
				\$ 95,000.00					3	\$ 95,
D-Prod-2nd Int Cmt	219			\$ 140,000.00	10000	277	and the second second	1 0 kg	1 4	
D-Float Equipment & Centralizers	221	C 922		\$ 76,000.00					1	
D-Csg Crews & Equip	222			\$ 63,000,00					\$.	
O-Contract Labor	225			\$ 9,000.00					1.	
Company Sprvsn	226			\$ 55,000.00						
	227								1 .	\$ 55,
D-Contract Sprvsn				137,000.00					\$	\$ 137,
D-Tsig Csg/Thg	228			\$ 51,000.00				0.00	3	
D-Mud Logging Unit	229	G (4) (8)	100 10	\$ 51,000.00					3 .	
Rentals-Surface	235	- 32		\$ 213,000.00			7.0		1.	
D-Rentals-Subsrite	236			\$ 99,000.00						
-Trucking Forklift/Rig Mob	237									\$ 99,
Marie Consults Will				\$ 203,000.00		1,000			\$.	
-Welding Services	238			4,000.00		0.00			8 .	
2-Contingency	243		3.7	\$ 76,000.00			Caracter and Carac		8 .	
Environti/Clsd Loop	244	9		\$ 334,000.00		100			\$.	
-Wellbore Frac Prep	304					425 000 00				\$ 334
-Lctn/Pits/Roads	305					139,000,00			3	- 107
				111	\$	15,000.00		E 260	3 .	\$ 15,
Completion OH	308				\$	22,000.00	0.100		\$.	
C-Frac Equipment	307	77			\$	948,000.00	C 22 22 22		1	
Free Chemicals	308		12.2			601.000.00				
-Frac Proppant	309					273,000.00			\$	
-Frec Proppent Transportation	310								\$	
						424,000.00		1	\$	\$ 424,
-Fuel Delivery & Services	311				\$	61,000.00	C	100	\$.	\$ 61,
-Water	312		197		3	401,000.00			\$.	-
Frac Surface Rentals	315		57 5			378,000.00			\$	
-Contract Labor	325				\$	15,000.00				\$ 378
-Company Sprvsn	328								\$.	
				1111/	\$	15,000.00			\$	\$ 15.5
-Contract Sprvsn	327	100 170 19			\$	202,000.00			\$ -	\$ 202.0
-Artificial Lift Install	329		10000		\$	65,000.00			3 .	
-Pert/Wireline Svc	331	- 1			\$	488,000.00		† — — —	\$.	
-Trucking/Forklift/Rig Mob	337				\$	15,000.00			3	
-Water Disposal	339									\$ 15,0
					3	58,000.00			\$.	\$ 58,
Contingency	343					108,000.00			\$.	\$ 108,0
-Dyed Diesel	345				\$	227,000.00			1 .	\$ 227,
-Drillout	346	73.2			3	432,000.00			\$.	\$ 432,6
B-Damages/Right of Way	351						\$ 2,000.00			
B-Location/Pits/Roads	353				-	$\overline{}$			1 .	2,0
B-Contract Labor	356	_			-		\$ 34,000.00		\$.	\$ 34,0
	330	_			_	-	\$ 180,000.00		3	\$ 180,0
EQ-Contract Labor	374				C		0.00	\$ 39,000.00	1	\$ 39,0
EQ-Water Disposal	387	24	100					\$ 179,000.00		\$ 179,0
EQ-HRZ Well Offset Frac	391							\$ 18,000.00		
otal Intangible Costs	100000000000000000000000000000000000000		100		4					\$ 18,0
out intendine costs			•	\$ 3,361,000.00	\$ 4,0	865,000.00	\$ 216,000.00	\$ 236,000.00		\$ 8,678,4
						- 57	1 0/1			
angible Costs	57.0				_	00,000	300			
EQ-Flowback Crews & Equip	392		r		100			\$ 108,000.00	1	Te
-Surface Casing	401			\$ 27,000.00		100		100,000.00		\$ 108,0
-Intermed Csg	402		1000		_				\$.	\$ 27.0
-Production Casing/Liner					_				\$.	\$ 210,0
	403						ACT TO SECURE TO		\$.	
-Welhead Equip	405		77	\$ 95,000.00					\$	\$ 95.0
-Tubing	504				5	75.000.00				
- I district					3					\$ 75,0
	5051					41,000.00			\$.	\$ 41,0
-Wellhead Equip	505						\$ 58,000.00		\$	\$ 58,0
-Wellhead Equip B-Tanks	510									
-Wellhead Equip B-Tanks B-Flowlines/Pipelines	510 511						\$ 28,000.00		\$ -	
-Wellhead Equip B-Tanks B-Flowlines-Pipelines	510			77 00		$\overline{}$				\$ 26,0
-Wellhead Equip B-Tanks B-Flowlines/Pipelines B-Htr Trtr/Septir	510 511 512						\$ 185,000.00		\$	\$ 26,0 \$ 185,0
-Wellhead Equip B-Tanks B-Tanks B-Htr Trt/Seprir B-Electrical System/Equipment	510 511 512 513								\$	\$ 26,0 \$ 185,0 \$ 114,0
-Wellhead Equip B-Tanks B-Flowlines-Pipelines B-Hit Trtr/Seprir B-Electrical System/Equipment -Pckrs/Anchoruffgrs	510 511 512 513 514				3	94,000.00	\$ 185,000.00 \$ 114,000.00		\$	\$ 26,0 \$ 185,0
-Wellhead Equip B-Tanks B-Towlines/Plpelines B-Hitr Trtt/Seprir B-Electrical System/Equipment P-Class/AnchessHurs B-Coupling s/Fatings/Velves	510 511 512 513 514 515				3	94,000.00	\$ 185,000.00		\$	\$ 26,0 \$ 185,0 \$ 114,0
-Wellhead Equip 3-Tanks 8-Flowlines/Pipelines 3-Hit Trut/Seprir 3-Hearhard System/Equipment -Pokrs/Anchers/Higs 8-Pumps-System/Equipment 3-Pumps-System/Equipment	510 511 512 513 514 515 521				3	94,000.00	\$ 185,000.00 \$ 114,000.00 \$ 192,000.00		\$ \$ \$	\$ 26,0 \$ 185,0 \$ 114,0 \$ 94,0 \$ 192,0
-Wellhead Equip 3-Tanks 8-Flowlines/Pipelines 3-Hit Trut/Seprir 3-Hearhard System/Equipment -Pokrs/Anchers/Higs 8-Pumps-System/Equipment 3-Pumps-System/Equipment	510 511 512 513 514 515 521				3	94,000.00	\$ 185,000.00 \$ 114,000.00 \$ 192,000.00 \$ 26,000.00		\$ \$ \$ \$	\$ 26,0 \$ 185,0 \$ 114,0 \$ 94,0 \$ 192,0 \$ 26,0
-Wellhead Equip B-Tanks B-Towinsu-Plpelines B-Howinsu-Plpelines B-Howinsu-Plpelines B-Howinsu-Plpelines B-Howinsu-Plpelines B-Howinsu-Plpelines B-Howinsu-Plpelines B-Coupling af Fattings Walves B-Townsu-Burface B-Instrumentation/SCADAPOC	510 511 512 513 514 515 521 522				3	94,000.00	\$ 185,000.00 \$ 114,000.00 \$ 192,000.00 \$ 26,000.00 \$ 20,000.00		\$ \$ \$ \$	\$ 26,0 \$ 185,0 \$ 114,0 \$ 94,0 \$ 192,0 \$ 26,0
-Wellhead Equip 3-Tanks 3-Tanks 3-Tanks 3-Hur Trtt/Seprir 3-Electrical System/Equipment 7-Ectrs/Anchorathyrs 3-Coupling s/Fatings/Valves 3-Pumps-Surface 3-Instrumentation/SCADA/POC 3-Miscellaneous	510 511 512 513 514 515 521 522 523				3	94,000.00	\$ 185,000.00 \$ 114,000.00 \$ 192,000.00 \$ 26,000.00 \$ 20,000.00		\$	\$ 26,0 \$ 185,0 \$ 114,0 \$ 94,0 \$ 192,0 \$ 26,0
-Wellhead Equip B-Tanks B-Flowlines:Plpelines B-His Trit/Seprir B-Electrical System/Equipment -Pckrs/Anchors/Higs B-Couplings/Fitings/Valves B-Imps-Signiface B-Imps-Signiface B-Instrumentation/SCADA/POC B-Miscellaneous B-Miscellaneous	510 511 512 513 514 515 521 522 523 525				\$	94,000.00	\$ 185,000.00 \$ 114,000.00 \$ 192,000.00 \$ 26,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00		\$ \$ \$ \$	\$ 26,0 \$ 185,0 \$ 114,0 \$ 94,0 \$ 192,0 \$ 20,0 \$ 20,0
Wellhead Equip 3- Finals 4- Fin	510 511 512 513 514 515 521 522 523 525 526					94,000.00	\$ 185,000.00 \$ 114,000.00 \$ 192,000.00 \$ 26,000.00 \$ 20,000.00		\$	\$ 26,0 \$ 185,0 \$ 114,0 \$ 94,0 \$ 192,0 \$ 28,0 \$ 20,0 \$ 20,0
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COG Operating LLC	·
Ву:	Date Prepared:
We approve:	COG Operating LLC
% Working Interest	Ву:
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.

COG OPERATING LLC AUTHORITY FOR EXPENDITURE Drill & Complete

Well Name MERCURY STATE COM 708H
8HL 18: 220 FSL, 1395 FWL, OR UNIT N
BHL 6: 50 FNL, 330 FWL, OR LOT 1
Formation WOLFCAMP A
Legal 6, 7 & 18, T28S-R28E
AFE Numbers

Prospect ATLAS 2628
State & County NEW MEXICO, EDDY
Objective DRILL & COMPLETE
Depth 24,000
TVD 9,190

ast Description tangible Costs	Code	PreSpud (PS) Pre-Set C	asing(PC) Drilling (DR)	Completions (C)	Tank Stty Constrctn(TB)	Pmpq Equip (PEQ)	Revision	
Lidn/Pits/Roads	205		\$ 121,000	00 T				T	and the same of	
Dritting Overhead	208		\$ 10,000	20				3		121,0
Daywork Contract	209							\$. \$	10,0
Directional Data Condess			\$ 655,000					\$. 8	655.0
Directional Drig Services	210		\$ 349,000	.00		Lagran Company	18,44	3	- 3	349.0
uel & Power	211	Commence of the Commence of th	\$ 113,000					8	- \$	113,0
Nater	212		\$ 95,000	.00	N-100gg			8		95,0
Bits	213	100	\$ 121,000	.00				1	. 3	
Aud & Chemicals	214		\$ 246,000					ti —		121,
ement Surface	217		\$ 25,000						. 8	248,
Cement Intermed	217 218							3		25,
								5		95
Prod-2nd Int Crnt	219		\$ 140,000					\$	- 3	140,
Float Equipment & Centralizers	221 222		\$ 76,000			190 200		3		76,
Cag Crews & Equip			\$ 83,000			1000		1 \$. 5	83,
Contract Labor	225	9.1	\$ 9,000	.00				\$. 3	9,
Company Sprvsn	226		\$ 55,000					1	- 1	55,
Contract Sprvsn	227		\$ 137,000					+		
Tstg Csg/Tbg	228		\$ 51,000					3		137,
And Leagues Hall							17.02	\$	- \$	51,
Mud Logging Unit	229		\$ 51,000					\$		51,6
Rentals-Surface	235		\$ 213,000		v v		12.00	\$. 3	213
Rentals-Subsrfc	236	2	\$ 99,000	00	100	7 2		\$	1 8	99,
Trucking/Forklift/Rig Mob	237		\$ 203,000				1	3	15	203.0
Welding Services	238		\$ 4,000.					3		
Contingency	243		\$ 76,000						- 13	4,1
Envmmt/Clsd Loop	244							8		78,
			\$ 334,000	00			4.5 C	\$	- 8	334
Wellbore Frac Prep	304				139,000.00	32223 3		\$	- 8	139,0
Lctn/Plts/Roads	305			- 5	15,000.00	S 82		8	. 1	15,
Completion OH	306		8	\$	22,000.00			1	1 3	22,
Frac Equipment	307			5				:		
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Frec Proppent Transportation	310	-		- \$	424,000.00	S. A		3	- 1	424
Fuel Delivery & Services	311		The second secon	- 3	51,000.00			\$. 3	61,0
Water	312			- 8		7 7 77		1		
Frac Surface Rentals	315	100		13					- 5	401,
Contract Labor	325		-	1 3				3	- 8	378,0
						2 2		\$	- \$	15,0
Company Sprvsn	326			- \$			- 30	\$. 8	15,0
Contract Sprvsn	327	28 92,60		- \$		400		8	- 5	202,0
Artificial Lift Install	329		10		65,000,00			\$	3	65,0
Pert/Mireline Svc	331			\$		· · · · · · · · · · · · · · · · · · ·		8	- 8	486,0
Trucking/Forkitt/Rig Mob	337			3				1 5		
Water Disposal	339			- 1	58,000.00				- 1	15.0
Contingency	343							\$	- S	58.0
Contingency				- 3				1		108,0
Dyed Diesel	345				521,000.00		10	\$. \$	227.0
Drillout	348			\$	432,000.00	F1.9-0		\$. \$	432.0
-Damages/Right of Way	351					\$ 2,000.00		3	. 8	2,0
-Location/Pits/Roads	353					\$ 34,000.00		\$		
Contract Labor	356		-	$\overline{}$		\$ 180,000.00		•		34,0
Q-Contract Labor	374			-		\$ 199,000.00		3		180,0
				-			\$ 39,000.00		. 8	39,0
Q-Water Disposal	387			_		S	179,000.00	\$. \$	179,0
Q-HRZ Well Offset Frac	391		and the second second		7.55		\$ 18,000.00	\$	- \$	18,0
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ntermed Csg	402		\$ 210,000.			9		5	- 3	210,0
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Electrical System/Equipment	513		3		-	\$ 114,000.00		1	1 3	114,0
ckrs/Anchors/Hgrs	514			15	94,000.00	TIT/ENVIVO		3		
Coupings/Fittings/Valves	515			-1"					- 3	94,0
	521			\rightarrow		\$ 192,000.00		\$. 3	192,0
Pumps-Surface				-		\$ 28,000.00	1902	\$	- 8	26,0
Instrumentation/SCADA/POC	522				10000	\$ 20,000.00	- 10 C	\$	- 5	20,0
Miscellaneous	523	and the second		1		\$ 20,000.00	- A	4	- 15	
-Meters/Lacts	525					\$ 26,000.00		_		20,0
Flares/Combusters/Emission	526			-				3		26,0
	527			+-	40.000.00	\$ 31,000.00		\$	- 1	31,0
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COG Operating LLC	
dy:	Date Prepared:
Ve approve:	COG Operating LLC
% Working Interest	By:
Company:	
ly:	
rinted Name:	
Téles	

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



January 28, 2021

Via CMRRR No. 9489 0090 0027 6261 7582 43
And electronic mail to tracy_jordan@eogresources.com
EOG Resources Inc.
5509 Champions Blvd.
Midland, TX 79706
Attn: Tracy Jordan

Re: E/2 & W/2 Mercury State Com Units

Mercury State Com 701H-703H E/2 Sections 7 & 18, T26S-R28E Mercury State Com 704H-706H W/2 Sections 6, 7 & 18, T26S-R28E Eddy County, New Mexico

Dear Tracy:

Reference is herein made to well proposals previously mailed on October 28, 2020, covering the above-referenced E/2 and W/2 Mercury State Com Unit wells. The total vertical depths of the wells are being revised slightly as highlighted below. The AFEs have also been updated to show these revised TVDs. No other changes have been made at this time.

- Mercury State Com 701H, to be drilled to a depth sufficient to test the Wolfcamp A formation at an approximate total vertical depth of 9,215'. The surface location for this well is proposed at a legal location in Unit O of Section 18, and a bottom hole location at a legal location in Unit A of Section 7. The dedicated horizontal spacing unit will be the E/2 of Sections 7 & 18, T26S-R28E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$7,896,000.00, as shown on the attached Authority for Expenditure ("AFE").
- Mercury State Com 702H, to be drilled to a depth sufficient to test the Wolfcamp A formation at an approximate total vertical depth of 9,325'. The surface location for this well is proposed at a legal location in Unit O of Section 18, and a bottom hole location at a legal location in Unit B of Section 7. The dedicated horizontal spacing unit will be the E/2 of Sections 7 & 18, T26S-R28E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$7,896,000.00, as shown on the attached AFE.
- Mercury State Com 703H, to be drilled to a depth sufficient to test the Wolfcamp A formation at an approximate total vertical depth of 9,200°. The surface location for this well is proposed at a legal location in Unit O of Section 18, and a bottom hole location at a legal location in Unit B of Section 7. The dedicated horizontal spacing unit will be the E/2 of Sections 7 & 18, T26S-R28E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$7,896,000.00, as shown on the attached AFE.
- Mercury State Com 704H, to be drilled to a depth sufficient to test the Wolfcamp A formation at an approximate total vertical depth of 9,286'. The surface location for this well is proposed at a legal location in Unit N of Section 18, and a bottom hole location at a legal location in Unit C of Section 6. The dedicated horizontal spacing unit will be the W/2 of Sections 6, 7 & 18, T26S-R28E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$10,622,000.00, as shown on the attached Authority for Expenditure ("AFE").

January 28, 2021 Info Letter – Mercury State Com Units

- Mercury State Com 705H, to be drilled to a depth sufficient to test the Wolfcamp A formation at an approximate total vertical depth of 9,153'. The surface location for this well is proposed at a legal location in Unit N of Section 18, and a bottom hole location at a legal location in Lot 1 of Section 6. The dedicated horizontal spacing unit will be the W/2 of Sections 6, 7 & 18, T26S-R28E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$10,622,000.00, as shown on the attached AFE.
- Mercury State Com 706H, to be drilled to a depth sufficient to test the Wolfcamp A formation at an approximate total vertical depth of 9,257'. The surface location for this well is proposed at a legal location in Unit N of Section 18, and a bottom hole location at a legal location in Lot 1 of Section 6. The dedicated horizontal spacing unit will be the W/2 of Sections 6, 7 & 18, T26S-R28E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$10,622,000.00, as shown on the attached AFE.

Please allow this correspondence to serve as an informational letter regarding the wells outlined above. Should you have any questions, please do not hesitate to contact me at 432.221.0470.

Sincerely,

COG Operating LLC

Lizzy Laufer Landman II

LL:bh Enc

Released to Imaging: 3/3/2021 11:51:08 AM

COG OPERATING LLC AUTHORITY FOR EXPENDITURE Drill & Complete

Wid Nume MERCURY STATE COM 70TH
BHL SEC 16: 229 PSL, 1409 PSL, OR UNIT O
BHL SEC 7: 80 PHL 990 PSL, OR UNIT A
Formation WOLPCAMP A
Legit 7 & 18, T265-R26E
PE Numbers

Prospect ATLAS 2028 State & County NEW MEDICO, EDDY Objective DRILL & COMPLETE Depth 19,000 TVO 9,215

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COG Operating LLC	
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This APE is only an estimate. By signing you agree to pay your share of the actual costs incurred.

Released to Imaging: 3/3/2021 11:51:08 AM

COG OPERATING LLC AUTHORITY FOR EXPENDITURE Drill & Complete

Well Name MERCURY STATE COM 702H
SRL SEC 18: 220 PSL 1430 FEL, OR UNIT D
SRL SEC 7: 60 PRL 1430 FEL, OR UNIT B
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COG Operating LLC

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

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Section Critical Scale Section Critical Sc	- conduct	307			44,000,00			15.0
Section Create Section Secti	G Unamicana	308			10.000.00			
Section Critical Scale Section Critical Sc	C Proposition	309			96,000.00			410.0
Section Sect	Process Improportation	3101			9,000.00			140,0
Section Sect	Delivery & services	311			42,000,00			200.0
Section Create Section Secti	Surface Barriela	312			73,000.00			- 44
Section Sect	CONTINUE PROPRIES	315		15 2	98.000.00		1	- 74
Section Critical Scale Section Critical Sc	William Secure	3401		16	0.500.60			
Section Critical Scale Section Critical Sc	that Steen	459			0.000.00		11 11	40.0
Comparison Crimer Space	Irial I to bracket	450			AL000.00			
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Comparison Crimer Space	stre/fortstelling Mass	100		13 3	7,000,00		11 . 11	
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COG OPERATING LLC AUTHORITY FOR EXPENDITURE Drill & Complete

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January 28, 2021

Via CMRRR No. 9489 0090 0027 6261 7582 36 and electronic mail to Courtney_carr@oxy.com OXY Y-1 Company
5 Greenway Plaza, Suite 110
Houston, TX 77046
Attn: Courtney Carr

Re:

E/2 & W/2 Mercury State Com Units

Mercury State Com 701H-703H E/2 Sections 7 & 18, T26S-R28E Mercury State Com 704H-706H W/2 Sections 6, 7 & 18, T26S-R28E Eddy County, New Mexico

Dear Courney:

Reference is herein made to well proposals previously mailed on October 28, 2020, covering the above-referenced E/2 and W/2 Mercury State Com Unit wells. The total vertical depths of the wells are being revised slightly as highlighted below. The AFEs have also been updated to show these revised TVDs. No other changes have been made at this time.

- Mercury State Com 701H, to be drilled to a depth sufficient to test the Wolfcamp A formation at an approximate total vertical depth of 9,215. The surface location for this well is proposed at a legal location in Unit O of Section 18, and a bottom hole location at a legal location in Unit A of Section 7. The dedicated horizontal spacing unit will be the E/2 of Sections 7 & 18, T26S-R28E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$7,896,000.00, as shown on the attached Authority for Expenditure ("AFE").
- Mercury State Com 702H, to be drilled to a depth sufficient to test the Wolfcamp A formation at an approximate total vertical depth of 9,325'. The surface location for this well is proposed at a legal location in Unit O of Section 18, and a bottom hole location at a legal location in Unit B of Section 7. The dedicated horizontal spacing unit will be the E/2 of Sections 7 & 18, T26S-R28E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$7,896,000.00, as shown on the attached AFE.
- Mercury State Com 703H, to be drilled to a depth sufficient to test the Wolfcamp A formation at an approximate total vertical depth of 9,200°. The surface location for this well is proposed at a legal location in Unit O of Section 18, and a bottom hole location at a legal location in Unit B of Section 7. The dedicated horizontal spacing unit will be the E/2 of Sections 7 & 18, T26S-R28E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$7,896,000.00, as shown on the attached AFE.
- Mercury State Com 704H, to be drilled to a depth sufficient to test the Wolfcamp A formation at an approximate total vertical depth of 9,286. The surface location for this well is proposed at a legal location in Unit N of Section 18, and a bottom hole location at a legal location in Unit C of Section 6. The dedicated horizontal spacing unit will be the W/2 of Sections 6, 7 & 18, T26S-R28E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$10,622,000.00, as shown on the attached Authority for Expenditure ("AFE").

January 28, 2021 Info Letter – Mercury State Com Units

- Mercury State Com 705H, to be drilled to a depth sufficient to test the Wolfcamp A formation at an approximate total vertical depth of 9,153'. The surface location for this well is proposed at a legal location in Unit N of Section 18, and a bottom hole location at a legal location in Lot 1 of Section 6. The dedicated horizontal spacing unit will be the W/2 of Sections 6, 7 & 18, T26S-R28E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$10,622,000.00, as shown on the attached AFE.
- Mercury State Com 706H, to be drilled to a depth sufficient to test the Wolfcamp A formation at an approximate total vertical depth of 9,257. The surface location for this well is proposed at a legal location in Unit N of Section 18, and a bottom hole location at a legal location in Lot 1 of Section 6. The dedicated horizontal spacing unit will be the W/2 of Sections 6, 7 & 18, T26S-R28E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$10,622,000.00, as shown on the attached AFE.

Please allow this correspondence to serve as an informational letter regarding the wells outlined above. Should you have any questions, please do not hesitate to contact me at 432.221.0470.

Sincerely,

COG Operating LLC

Landman II

LL:bh

COG OPERATING LLC AUTHORITY FOR EXPENDITURE Drill & Complets

Well Hame MERCURY STATE COM YOTH SML SEC 18: 220 FSL, 1400 FEL, OR UNIT O BML SEC 7: 50 FML, 550 FEL, OR UNIT A Formation WOLFCAMP A Legal 7 & 18, 7258-R25E AFE Humbers

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O-Company Servine 22 O-Company Servine 22 O-Company Servine 22 O-Tris Cept to 22 O-Tris Cept to 22 O-Tris Cept to 22 O-Remain behave 22 O-Remain behave 23 O-R		100,000.0		140,000.00
PSC-Water Original Sign PSC-LIC Well Office Prop. SPT LOUIS AND SERVICE STATES SPT			179,000,00 3	38,000.00
	1 2.00,000.00	THE AMERICAN PROPERTY PRODUCTION	18,000,00 \$	3 18,000,00
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2-Surface Casing 451	\$ 20,000,00		\$ 108,000,00	109,500,00
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D-Welfrend Louis 400 Callebra 844 C-Welfrend Ecolo 600		£.000.00		384,000,00
C-Welhard Ecolo 201 10 Colo 510	- 5			\$0,000.00
TB-Hir Tricilianty 612		160,000,00		24,500.05
18-Backing System Equipment 813		114,000,00		114,000,00
18-Cauch confidence Arrives 515		\$ 192,000,00		97,000,00 192,000,00 28,000,00
TB-Instrumentation(CADA/POC 522)		100		20,000,00
T Manual see		20,000,60 30,000,00		20,000,00
2-dia Li Compression 627		31,000.00	(31,000.00
Cook Takenshi Cooks Servers Cooks Servers		Contract of the second	99,000,00 8 -	30,000,00
		Participation of the last of t		ASSESSMENT OF PARTY AND ADDRESS.
Total Gross Cool	Maria Calabaran San Calabara			
Total Groen Crist Roje: The above costs are estimates only. Actual costs	Comparation of the property of		[8 351,000.00] [8 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Tetal Green Crief Rote: The above costs are estimates only. Actual count COG Operating LLC	Comparation of the property of			The second second
Total Groen Crist Roje: The above costs are estimates only. Actual costs	Comparation of the property of	LANGOLIO S PACEDOS		The second second
Fetal Gross Crief India: The above costs are estimates only. Actual costs COG Operating LLC Re. We approve:	Comparation of the property of	LANGOLIO S PACEDOS	(1 - 35,000.0) (5 - 35,000.0)	The second second
Fetal Genes Criet Active above costs are estimates only. Active costs COG Operating LLC Bit. We approve: % Worldne Interest	Comparation of the property of	Calo Proposed:	(1 - 35,000.0) (5 - 35,000.0)	
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Fetal Genes Cook Actual costs COG Operating LLC RC. We approve: 14 Worlding Interest Company:	Comparation of the property of	Date Prepared: COS Operating LLC By:	Revised 1.28.21	

COG OPERATING LLC AUTHORITY FOR EXPENDITURE Drill & Complete

Well Name MERCURY SYATE COM 702H SHL SEC 19: 220 FBL, 1430 FBL, OR UNIT O SHL SEC 7: 30 FRL, 1430 FBL, OR UNIT O Formation WOLFCAMP A Legal 7 & 18, T258-R28E

Prospect ATLAS 2028
State & County NEW MEXICO, EDDY
Objective DRILL & COMPLETE
Depth 19,000
TVD 9326

AFE Humbérs	1					1 10	0 9/3/20	
EC. (C)	Size -	AND PERSONAL PROPERTY.	CALL CONTRACTOR	Sign accompany to	-1-70 T. C. W. Laborator .			
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CLGVPtoRoads CENTING Overhead		(68)	86,000,00 7,000,00	1			14 .	T 89.000,06
D-County Contract		06	7,000,00					95,000.00 7,000.00 44,000.00 94,000.00
D-Descork Contract D-Directoral Dris Services D-Fuel & Pipery		10	\$ 484,000.00 \$ 258,000.00					494,000.00
D-Fuel & Power		111	34,000.50	1			- :	240,000,00
C Water C Site C Hed & Chemicals	I	12	70,000,00				 	84,600,66
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	1 3	177	182,000,00					
C-Prost-Ing in Cres. C-Prost-Ing in Cres. C-Prost Environment & Controllium			\$ 70,000.00					70,000.00
C-Pros-3nd Int Cent			\$ 100,000,00				18 .	160,000,00
	Н	21	\$ 6K,000.00				-	58,000,00
C Contract Labor S Contract Serven C Contract Serven C Ott ConTra		3	7,000.00			-		11,000,00
Company Serven		*	3 47,000.00				:	7,000.00
D-Contract Serven		27	\$ 101,000.00				:	\$ 101,000,00
C Stud Copying Unit C Strains Surface C Strains Subarit C Trusting Fort 1479g Mob		26	34,000,00					\$ 36,000,00
Q-Rentitle-Burface		36	\$ 38,000.00 \$ 197,000.00				-	1 8 36,000.00
C-Panisla-Esterit			1.6 76,000,00	-	-	+		187,000.00
C-Trucking/Fork/In/Rig Mob	-	27	3 180,000.00			10.00		150,000,00
D-Welding Bendose D-Continuency	\vdash		1 1,000,00					1,000,00 St.200,00
C-Environt/Cled Long	- 3	u I	3 247,000,00					50,000,00
C-Wellbore Frec Prep		(4)		13 95,000,00				\$47,600.60
C-Loty Platfoods	-	8		18 10,000 00			1	10,000,00
C-Free Equipment				11,000,00				15,000.06
C-Free Chemicale		Sel		11,000,00 410,000,00				948,000,00 410,000,00
p-Committee (Loop Wellborn From Prop C-Loop Path Reads C-completion CH C-from Equipment C-from Committee C-from Proposed		9		13 185,000,00	201 1111 1111 1111		:	\$ 410,000,00 \$ \$86,000,00
C-Free Propages Transportation		101		4,000.00			·	196,000,00
C-Fried Systems & Bellinoise		H		42,000.00				4,000
C-Free Surface Rentals	-		+	275,000,00				\$ 273,000,00
G-Contract Labor				\$ 10,000.00				258,000,08
C-Company Sprysh	-			16 10,000,00		The second of the second		10,000,00
C-Arefulai Un Iredali		9		45,000.00				134,000,00
Constitution Sec		ii –		317,000,00				45,000,00
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C-Water Disposed	-			40,000,00			1	10,000,00
C-Over Diese	- 6	6 6 4		74,000.00				74,000,00
C-Drillout	-5	4		\$ 155,000.00				185,000.80
TB-Commontticht of Way TB-Location Fluctures TB-Commot Laker	- 3			2020000	1 2 2000 00			1800000
I D Lecetory Tarriveds	- 2				180,500,00			\$ 2,000,00 \$ 34,000,00
PRO-Contract Labor	-8				180,000,00			100000
PEO-Weter Disposal		4	-			36,000,00		180,000,00
PRO-HIS Well Offset Princ			-			176,000,00	-	179,000,00
PEC-United Labor PEC-Water Playonal PEC-1932 Well Diffest Prac Total Managinity Costs	Pilital	Statement - to Statement -	\$ 2,463,000.00	\$ 11 3.518.000.00	216,000.00	\$ 210,000,00	200200000000000000000000000000000000000	
Total Control						T CONTROL OF	STATES AND DESIGNATION OF	E CHILDREN
PEG-Plowback Crews & Boule	3	1	THE PERSON NAMED IN	THE REST STORY - ASS	The second second	The same of the sa		No. of Concession, Name of Street, or other Designation, or other
O-Surface Cesting	40		\$ 20,000.60			\$ 100,000,00		104,000,00 \$0,000,00 155,000,00
O-Intermed Cop	40	- T	184,000.00 384,000.00 70,000.00					\$ 20,000,00
D-Production Cosing/Liner	40		346,000,00		The second secon			345,000,00
Fregues Calla. PEC-Flowbach Crews & Boule C-Buffore Create C-Buffore Create C-Buffore Create C-Buffore Create C-Buffore Create C-Wellhard Soule C-Wellhard Soule TI-Torba TI-T	40 40 50 50	+	\$ 70,000.00					\$ 70,000.00
C-Welfreed Equip	- 50		_	\$ 25,000.00				\$ 82,000,00
TB-Yarks	81	0		24,000	\$ 54,000,00			28,700.55
TB-Province-Pipelines	- 51				1 34,000,50			84,000,00
The Exercised August Manager	91 51				94,000,50 (84,000,00			185,000,00
C-Potral Anchorafrians	81			3 64,000.00	3 114,000,00			3 114,000.00
Th-Country of Harqui Velves	5t		7	97,000,00	\$ 192,000,00			\$ 64,000,00
The business and the second of the second	- 8			200	\$ 26,000.00		-	192,000,00
18-Missistenaus	82		-		20,000.00			30,000,00 30,000,00 30,000,00
18-Meloral, acts	- 62				\$0,000.00 \$ 26,000.00 \$ 31,000.00			30,000,00
The Florest Compunitors Comission			The second of	- W	\$ 31,000.00			3 20,000,00
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9450 Sept 12 12	_					\$ 147,000.00	MARKET MARKET BE	\$ 1,644,000.00
Total Gross Cost		Combined Demograms	1 2 142 con co I	\$ 11 3.487 ppg.co.	is was			
Moter. The above code ary estimate	only.	Actual costs will be billed as incurred.		The same	T- T	313,600,00	のでは、日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日	7,04,000.40
COG Operating LLC								

CG Operating LLC	
7	Date Present: Revised 1 28:21
fo approve:	COG Operating LLC
% Working Interest	Or .
inted Herres;	This APE is only an estimate. By signing you agree to pay

COG OPERATING LLC AUTHORITY FOR EXPENDITURE Orlil & Complete

Well Name MERCURY STATE COM 705H
8ML SEC 18: 220 FSL, 1460 FSL, CR UNIT O
8ML SEC 7: 80 FML, 2310 FSL, CR UNIT B
Formation WOLFCAMP A
Legal 7 & 18, 7255-R266
APE Numbers

Prospect ATLAS 2515
State & County NEW MEDICO, EDDY
Objective DRRLL & COMPLETE
Depth 18,000
TYO 9,200

Released to Imaging: 3/3/2021 11:51:08 AM

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D-Dework Contract 208 D-Directional Drig Services 210	7,60(6) 44,60(6) 38,00(6)				44.000.00
D-7586 A PSW47 211	8.60.00				
D-Mad & Chamicals 213	\$ 70,000,00 \$ 80,000,00 \$ 182,000,00				70,000.00 84,000.00
D-Content Surface 217 D-Content Interned 218	(100,00 (000,10)				#4.000.00 70.000.00 #4.000.00 187.000.00
D-Prog-Strid Int Cont 7181	103,000 10			:	101,000.00
O-res Exemption & Certification 221 O-circ Creat & Ready 222 O-Circlated Letter 225 O-Circlated Review 225 O-Circlated Review 227 O-rest Certified Review 227 O-res Creating Review 227	7,000,00				10,000,00 10,000,00 10,000,00 10,000,00 11,000,00 10,000,00
D-Contract Serven 227	18 41,000.00			-	1,000
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D-Marid Loggreg Unit 228 D-Ranish- Surfree 228 D-Ranish- Suberty 2	18/0008			:	127866
O-Trustimal art Willia Mole 237 O-Welding Services 238	(1) (1) (1) (1)			-	180,000,00
D-Contingency 849 D-Environt/Cled Lone 344	\$000.00 \$000.00 \$41,000.00		The second secon	:	3000
C-Weltone Pric Pres 304 C-Lon Plan Reads 506	\$ 65,600,00 11,000,00 15,000,00				87,000
C Completion DM SSS Completion	Kimilar 84 kimilar				15,000,00
C-Prec Proposit 300	84(0000) 41(0000) 184,0000				410,000,00
CPene Binonnesi Tennamonialian 3461	361,001.00 42,001.00				180,000,00 280,000,00 42,000,00
C-Free Burlace Rentals 315	277.000.00 284.000.00			-	\$ 275,000.05
C-Company Spream SSE	\$ 10,000,00 \$ 10,000,00				10,000,00
C-Contract Serven 327 C-Artificial UR Install 329	150,00000 45,000,01				138,000,00 43,000,00
C-Parl/Wireling Sec 3311 C-Trucking/Forbifulfig Mob 337	3 317,007,00 10,000,00				317.000.00 16.000.00
C-Wither Disposal 326 C-Sentrating S13	40,000,00 74,000,00				4 6 6 6
C-Deed Dissel C-Orlina TB-Demographishs of Way SSI	74,005.00 184,005.00 2 884,000.00				19,600.60
Part Celherr & Services - Water - Water - Free Services Reniets - Services Leftor - Cements Services - Cements Services - Cements Services - Artificial Left Install - Part Weyline Serv - Inschanged victorities Mob - Cements Services -		2,000.00 34,000.00 140,000.00			2 m 10 34 m 10
PEG Contract Labor 974		140,000.50	30,000,00		\$ 100,000,00
PEO-Physic Disposes 367 PEO-PRZ Well Offices 765			38,000.00) 170,000.00		1,10.10
You had been been been been been been been bee	THE PROPERTY SHEET STREET	\$ 214,000,00	\$ 234,600.00		A
Frighte Class PEC-Trovback Crows & Equip 362 D-Suction Caning 401 D-Suction Caning 401 D-Suction Caning 402 D-Suction Cashes/Aver 402 D-Verdaction Cashes/Aver 403 D-Torbina Cashes 505 D-Tarks 510 D-Torbina Populates 511 D-Suction Cashes/Verdaction 512 D-Cashes/Archaes/Verdaction 513 D-Cashes/Archaes/Verdaction 513 D-Cashes/Archaes/Verdaction 513 D-Cashes/Archaes/Verdaction 513 D-Succional Verdaction 513 D-Succional	A STORY IN A SHARE THE WAY A SHARE THE SHARE T	the American Street	\$ 100,000.00 T	The second second	3 (0,000.00)
D-Intermed Cea 402 D-Production Casing-Liner 403	\$ 20,000,00 \$ 165,000,00				#04,000,00 \$0,000,00 \$1,000,00 \$1,000,00 \$1,000,00
D-Wathead Equip 405	94,000.00 94,000.00 74,000.00				3 500,000 00
C-Tubing 804 C-Wellheed Equip 805 TB-Yanks 8109	1 24,000.00			•	
TB-Townsear-Logities 511 TB-Townsear-Logities 511		34,000.00			100.00 100.00 200.00
TB-Decision System/Conjunent 613 C-PstraAnchors/tors 814	\$ 64,000,00	10,000,00		•	114,000,00 114,000,00 84,600,60
C-PatrolAndess/tors 514 TB-Couplings/Fittings/Valves 515 TB-Pumpe-Burlace 521		12,000.0			192,000,00
TB Instrumentation/SCADA/POC 822 TB Miscellangous 623		20,000,00			2000.00 2000.00
18 Matery Acts 625 18 Pares Combusters/Emission 626		28,000.00			2000
TB Miscotherabus 622 TB Miscotherabush 625 TB Miscotherabush 625 TB Miscotherabush 626 C-Ges Life Compression 527 PEC-Wallhead Statement 531	3 25,000,00	41.000.00	السنديد		3 (010) 3 (010) 3 (010) 3 (010)
Tracket and the second of the	\$ 630,000.00 \$ 100,000.00				39,000,00
Tetal Ordes Goot		9HL000.00	341,606.60		7,000,000.00
COG Operating LLC					
6	_	pto Prepared:	Revised 1 28.21		
		OG Operating LLC			
We approve: % Working interest					
Pamiseror.					

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

COG OPERATING LLC AUTHORITY FOR EXPENDITURE Drill & Complete

Well Name MERCURY STATE COM 704H
8HL 18: 220 FBL, 1466 PML, OR UNIT N
8HL 6: 50 FBL, 2000 FML, OR UNIT C
Formation WOLFCAMP A
Logal 6, 7 & 18, 1285-R28E
FE Numbers

Prospect ATLAS 2629
State & County NEW MEDICO, EDDY
Objective DRILL & COMPLETE
Depth 24,000
TVD 9,296

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Company Company - Comp		demonia semi recordo			III MALIEN COMMENTALIS	Period Courts O'RE	A STATE OF	
O-Critica Contract	–ă		\$ 121,000,00					121,000.0
O-Cowerk Contract	#		1 656,000.00					121,800 to 10,886 to 686,000 to
O-Directional Drip Services	- 31		349,000,00					1 349,000.00
O-Weter	2	2	1 95,000.00					96,000.00
Odded & Chestods	- 4		121,000,00 348,000,00					121 565 0
O-Comora Burface	- 1		20,000,00					94,500,9 94,000,9
D-Compré Intermed	21		\$ 98,000,00 \$ 140,000,00					95,000.00
3-Nost Squarrent & Controlizors	- 1		16 76,000,00					140,000
C-Ceo Crews & Equip	22	2	1 8 83,000.00					1 10,000
O-Company Barran	- 5	it -	8,000.00					80.000
C-Contract Sorven			137,000.00					17,500
C-Mud Leasing Unit	-8		97,000,00 97,000,00				- :	81,000,00
O-Rentate-Surface	- 3	\$	18 213,000,00					\$ 215,000,00
C-Periodo Suberio	-		203,009,00					\$ 99,000,00
Q-Watering Pervices	2	6	4,000.00				- :	1,000,00
D-Confinency D-Poyrous-Cled Lane	- 27		3 74,000.00 334,000.00					\$ 74,500.50
C-Waltons Frac Prop	SESSESSION OF THE PERSON OF TH		\$ \$54,000.05	\$ 139,000.00				10000 100000 100000
C-LonPipiRoeds	-8	6		136,000,00				15,000.5
C-Free Boulgment	- 10			948,000,00				22,000,00
C-Frac Charactels	-20			61,000,000				\$ 601,000,00
C-Free Proposi Transportation	- 8			27 1,000,00 44 1,000,00				\$ 273,000.00
Fuel Delivery & Services	- \$1			\$ \$1,000.00				61,000,00
C-Pres Surface Rentals	31			278.000.00				\$ 401,000.00
Contract Labor	31 92			\$ 15,000.00				376,000,00 15,000,00
Company Serven	-8			15,000.00				15,000.00
CAriston Lit I result	- 2			\$ 65,000,00				86,000.00
C Perintraling live	-3			484,300,500 18,500,500			-	40,000,00 40,000,00 1,000,00 10,000,00 42,000,00
C-Water Disposed	- 5			18,000,00		-	- :	15,000.00
C-Continuency	Service Servic			# 500 E				100,000,00
C-College	- B			2000			The second secon	27,000,00
TB-Damages/Replic of Way	- 8				\$ 2,500,05			1,000,00
TB-Contract Labor	100				\$4,000.00			30,000,00
PT-Q-Contract Labor	7					15 36,666,66		2000.00
PEO-MINE Disposal	- #					178,000,00 18,000,00		3. 179,000,00
Total Intergible Cools William		Continue Con	6 2,301,010.b0	\$ = 4,005,000.00	-	\$34,000.00	A Company of the last	\$,870,000.00
Country Coults								-
PEO-Fineback Crows & Fouls	38 40					E 164,000,00	AND DESCRIPTION OF THE PARTY OF	R (MANASA
D-Surface Ceatro	40		\$7,000,00 210,000,00 521,000,00					
D-Production Coolege Union	- 8		\$ 210,000,00 \$521,000,00					210,000,00
O-Welfred Eq./s	900		\$ 94,000.00	Appear to the second				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C-Wathead Squip	200	H) 1		75,000,00 41,000,00				1 2 2 2
Til-Tarita				71.900.00	\$ 54,000.00			41,000,00
TB-Hy Tredepty	E11				94,000,00 94,000,00			14,000,00
TRE Section Contains sections	115				114,000,00			3 196,000,00 5 114,000,00
C-Poins/Archors/Hors TB-Couplings/Fathers/Values	- 11			\$ \$4,000.00				114.00 to 4.10
TB-Pumps-Burlace	621						:	18 999 99
TB-Instrumentation/SCADA/POC	82				\$ 20,000,00			2,000
TE-Meteral acts					\$5,000.00 \$4,000.00		-:	2000
The survey of the party of the late of	- 9			37.75	31,600.00			9,000
PEO-Wellnesd Englament	-#			\$ 34,000,00		E STANTAL		3.00.0
Emilian Cooks FEO-Firstent Crews & Forte C-Instruct Cooks II-Instruct Cooks C-Instruct Cooks II-Instruct Cooks II-Instruct Cooks C-Instruct Cooks II-Instruct Cooks			\$ CE 855,000.00	\$ 246,000.00	8 600,000.00	33,000,00 (147,000,00	PARTERING TO THE	1,640,600,00
Total Group Cost	the second	The second secon	DOWN THE RESERVE		CHARLES TO A VIOLENCE OF THE PARTY OF THE PA		SAC BOOK TO SERVICE STATE OF THE SERVICE STATE OF T	
Hotel The above costs are estimated	-	I MERCHANIST I DESCRIPTION	Self-Selfmerro	# 8,111,000.00	N-Coopy	301,001,00		\$ 19,000,000.00
	MW. /	COURT COURT HAT SEE CONTRACT AND ADDRESS.						

N	Onto Proported: Revised 1.28.21
Ma monorarie:	COG Operating LLC
No approve: % Working interest	<u>Pr</u>
Poursellers	

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

COG OPERATING LLC AUTHORITY FOR EXPENDITURE Drill & Complete

Will Hame MERCURY STATE COM 70(H) SHL 14: 220 FBL, 1425 FML, OR UNIT N SHL 6: 00 FML, 1210 FML, OR LOT 1 Fernation WOLPCARE A Legal 6, 7 & 18, 7268-R28E

Prospect ATLAS 2028 State & County NEW MEDICO, EDDY Objective DRLL & COMPLETE Depth 24,000 TVD 5,153

AFE Humbers	i					***	8,100	
Court Describers	fig.	nomination of the second	HI SHIP - SHIPTING	I Marine Witness	(C) 1 (C) - C (C) (C)) produces of the same of the same) promount with the last of	1
D-CAN-Partners D-CAN-Partners D-Salling Cyprines	ALC: N		Married Married Communication of the Communication	the same and the same and the same and	The same of the sa	The state of the s		Superior de la company de la c
D-Later Partners		(0)	3 121,000,0					19,000,00
C Services Contract		100	655,000.0					3 950,000,00
C-Directional Only Services			\$ \$49,000.00	1				\$ 656,000.00
D.Weber	-	212	113,000.00					\$48,000,00 113,000,00
C-Directional Drip Services C-Puel & Prover C-Bris C-Marie C-Marie C-Marie & Chemicals C-Centers Service C-Prove Services C-Prove Services C-Prove Services C-Centers & Equip		2131	1 5 454 AVA AV			-	:	9,000 m
O-Mad & Charcicals		119	1 24,000		200000000000000000000000000000000000000		H :	\$ 246,000,00
D-Cemen Burrace	\vdash	217	11,000,00					25,000,00
D-Prod-2nd Int Cost		Hill	140,000,00	-	-		- :	94,000.00
Charlest Continued to Continue		201	3 76,000,00					\$ 140,000,00 \$ 74,000,00
O-Contract Labor		222	9,000,00					\$ 85,000.00
D-Company Serven			60,000,00	_				3.000.00
O Central Street		27	137,000,00				-	137,000,00
D-Mud Locales Unit		22	\$1,000,00 \$1,000,00					\$1,600,000 \$1,600,000
D-Hard Cooping Unit D-Harden Surface O-Harden Subarb O-Yandaran Fordiffelig Map		78	1 914 645 66	7				51,000,00
O Rentale Suberfo			13 99 000 00				-	213,000,00
C-Truthing Fernanding Mee	-	100	3 203,000.00			The second secon		\$ 200,000.00
G-Contriguency		58 45) 44) 94	\$ 4,500.00 \$ 76,000.00					76,000.00
O Commont Cled Loop		41	\$ 334,000,00				:	3 76,000.00
Committee Press	-	941	-	19,000				\$ 139,000.00
C-Completion OH	-	96	-	18 18,000,00				15,000,00
G-Fras Environment				1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	_		· ·	22,000,00
C-Print Property	-	OB COLUMN	-	273,000,00				\$ 601,000.00
C-Free Processed Transportation		Rio .		18 424,000,00				946,000,00 621,000,00 971,000,00 491,000,00
C-Fuel Delivery & Services		10		11,000,00			-	1,000,00
C-Free Surface Rentals		12	-	18 401,000.00	A supplied to the supplied to	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW		401,000,00
C-Contract Labor				\$ 376,000,00 \$ 15,000,00				\$ 374,000.00 \$ 13,000.00 \$ 15,000.00
C-Company Servan		4		15,000,00				13,000,00
C-Artificial III brokel				1 65,000.00				202,000.60
D Trustergif vertilitititi jalob D Trustergif vertilitititi jalob D Trustergif vertilitititititititititititititititititit		gri .		44.000.00 16.000.00				66,000,00
C-Trucking/Forts/fifting Mob		37		16,000.00				\$ 444,000.00 \$ 15,000.00
C-Curtineercy	-	43		56,000,00				51,000,00
C-Ored Dissel				100,000,00			- :	108,000,00
C-Dreiout	_	46		\$ 432,000.00				1988
TB-Location Plasfords					1 3000			\$ 2,000,00
TB-Contract Labor	- 5				\$ 190,000.00			3 34,000,00
PEQ-Contract Labor		74			- Indiana	3 39,000,00		34,000.00
PECHAZ Wall Office Frame		67	-			\$ 179,000.00		\$ 179,000,00
PEG-Central Labor PEG-Water Disposal PEG-HIZ Wall Office Prop Total Intendigible Coats (1777)			AND ADDRESS OF THE PARTY.	\$ 1 4.005.000.00	214,000.00	1 1,000,00 8 20,000,00		## (500.00) ## (500.00) ## (500.00) ## (500.00) ## (500.00) ## (500.00) ## (500.00) ## (500.00) ## (500.00) ## (500.00) ## (500.00) ## (500.00)
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georgible Colons PEC-Flowbach Creme & Boarle O-Burlace Cestrics O-Interned Cog O-Providentin Contract Inter O-Wolfreed Envis C-Walfreed Envis C-Walfreed Envis C-Walfreed Envis	Name and Address of the Owner, where	100	Charge dres sections	Proper Photography	THE RESERVE TO SHARE SEE THE			
O-Surface Cestro	4		\$ 27,000.00			\$ 108,000.00		100,000,00 F(0,000,00) S(1,000,00)
O-Intermed Cog	- 4	081	210,000,00					不無器
D-Welhead Equip	-1		27,000.00 210,000.00 94,000.00					821,000,00
C-Tubing	- 5	84	2 Panneyy	\$ 75,000,05				3 95,000,00
C-Wellhead Equip	- 8	08		\$ 41,000.00				75,000.00 41,000.00
TB-Tanks TB-Pavelnes/Pissines		10			\$ 58,000.00			\$4,000.00
TB-HS: TradBeprir		(2)			196,000,00			\$1,000.00 \$1,000.00 \$65,000.00
11 - Francisco Projector 11 - Francisco System Equipment 12 - Francisco System Equipment 13 - Francisco State 14 - Francisco State 15 - Francisco State 16 - Francisco State 16 - Francisco State 16 - Francisco State 17 - Francisco State 18 - Francisco Sta	- 5	13			114,000.00			111,000,00
T6-Countros/Valves	- 8			\$ \$4,000.00	THE TAXABLE IN			94,000,00
TB-Pumps-Burface					192,000,00			162,000,00
TB-matrum enterior/SCADA/POC	- 5	8			20,000,06			\$ 20,000,00
TS-Meteral acts	-				20,000,00			10,000,00
112 militari mindoni S. AAAPCO 112 - Magallaniacya 112 - Magallaniacya 112 - Magallaniacya 113 - Magallaniacya Mindoni 114 - Magallaniacya Mindoni 115 - Magallaniacya Mindoni 115 - Walland Equipment		84			2000 M 2000 M 2000 M		-	31,000,00
C-Gas LP(Compression				\$ 36,000.00				\$4,000,00
Total Yangton Colds			& COLUMN AND AND AND	\$ 100 Sep 200 Fe		34,000,56		\$ 39,000,00
	1		8 005,000.00			147,004.00		1,544,000.00
fittel Ovece Cout	1000		\$ 4.214.000.00	8 8,111,000.00	\$ 914,000,00	3 303,000.00 [14,011,060.00
Mote: The obove costs are sellings	e only.	Actual costs will be billed as incurred.						
COG Operating LLC			2270	100	2 - 17	00001-00-00-		
						20.70		
Byr .					Data Preparad:	Rev 1.26.21		
We approve:				1	COG Operating LLC			

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

COG OPERATING LLC AUTHORITY FOR EXPENDITURE Drill & Complete

Well Name MERCURY STATE COM 706H
8HL 18: 220 FSL, 1396 FWL, OR UNIT N
8HL 6: 30 FML, 330 FWL, OR LOT 1
Formation WCLPCAMP A
Legal 6, 7 & 18, 1265-828E
APE Numbers

Prospect ATLAS 2528

Othine & County NIEW MIDGOD, EDDY
Objective DRALL & COMPLETE
Depth 24,000
TVD 9,257

Management Control	West Davie	THE PERSON NAMED IN		A	shirt is the same of		The second second	
Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Con	88		13 121,000.00	1		T	1	13 121,000,00
D-Dework Corbect	500		10,000,00					455,000,00
O-Directoral Drig Bervices	210		34000.00				 :	349,000.00
C-Water	211		193,000,00					113,000.00
6-8%			91,500,50 (21,500,50 344,500,50			+	:	95,000,00
C- Bla Q-Mod & Chamically Q-Gampri Surface Q-Campri Surface Q-Campri Unformed D-Prod-Earl Int Cost	217		3 24,000,00					340,000 to
O-Cornert Intermed	111		\$ 96,000.00			+	:	1 1000
D-Prod-2nd Int Cont	219		140,000.00					94,000,00 140,000,00
O-Crig Crews & Boule	222	-	83,000,00					18 76,000,00
D-Post Section Cont D-Post Sequence (8 Contribute D-Contribut Labor D-Contribut Labor D-Contribut Service D-Contribut Service D-Contribut Service D-Tris Contribut D-Mari Loome Unit	239		8,000.00					1,000,00
O-Contract Servan	227		137,000.60					\$ 55,000.00
O-Time Coortbo	22		18 61,000.00			1		197,00000 61,00040
O-Rentzie-Surface	- 101		213,000,00					81,000,00
O Flertille Suberio	28		90,000,00					213,000,00 98,000,00
D-Waters Services	- 44							200,000.00
O-Contingency	243		4,000,00 74,000,00				-	4,000.00
C-Western Francisco	244		\$ 154,000.00					354,000,00
C-Lord Talkands	243 244 304 304			190000 150000 20000	+			139,000,00
C-Compressor OH	88			1 100				15,000,00
C-Frec Chemicals	304		+	60,000				\$ 948,000.00
C-Pres Prospers	309			18 273,000,0			:	1 00 000 00 77 000 00
Ching Coottles Ching Coottles Ching Logory Link Ching Logory Link Ching Logory Ch	310		1	494,000.0				494,000,00
C-Water	312			TS 401,000.00			-	40,000,00
C-Water C-Free Beginse Revisits C-Free Beginse Revisits C-Contract Serves C-Contract Serves C-Free Bernes C-Partition Bus C-Partition Bus C-Free Bernes C-Market Bus C-Market	325			\$ 378,000.00				\$ 376,000.00
G-Company Serven				1 18,000,00			:	16,000,00
C-Artificial Lift Install	329			##C500.00 18,000.00 98,000.00				\$ 202,000,00
C-Partifficating But	3311			460,000,00				#8000 00 48000 00 18000 00
C-Water Dispose	330			15,000.00				486,000,00
C-Certificancy	30			\$ 100,000.00			-	\$ 56,000.00
- Water Discours - Or Property - Oral Discours - Oral Discours	358) 345) 346) 348			\$ 227,000.00				27,000
TB-Domesse/Right of Way	363			\$ 432,000,00	2,000.00			
TB-Location/Printhonds TB-Contract Labor	365				31,000.00			34,600,50
TB-Location/Printhends TB-Contract Labor PEO-Contract Labor	- 97							34,600,00
TB-Locaton/Plackends TB-Contract Labor PEC Contract Labor PEC Water Discount PEC-Water Discount PEC-Water Discount					94,000,00 180,000,00	\$ \$600.00 170.00000		39,000,001
II E-Compressive of Way II E-Location Proofs and III E-Contract Labor PSC-Compress Advan PSC-Compress Advan PSC-Compress Advan PSC-Compress Advan PSC-Compress Advan PSC-Compress Advance PSC-Compress	1		\$ = 3,941,000,00	\$10.400£000.00	180,000,00	\$ 39.600.00 \$ 179,600.00 \$ 18,000.00		179.000.00
The second value of the second	97		\$ = 3,001,000,000	TE CHEMO	180,000.00	\$ 39.000.00 \$ 179.000.00 \$ 18.000.00		120000
The second value of the second	971 1971 1981		Y 7.00	C Tolorows	180,000,00	\$6,000,00 171,002,00 18,000,00		179,500,50 18,500,50 18,500,50
The second value of the second	97 27 27 28 40		Y 7.00	C Tolorows	180,000,00	\$ 20,000,00 171,000,00 1 10,000,00 2 28,600,00		179,500,50 18,500,50 18,500,50
The second value of the second	971 1971 1981		1 7.000.00 1 210.000.00	Transaction	180,000,00	\$ 38,000,00 \$ 172,000,00 \$ 18,000,00 \$ 236,000,00		178.000.00 178.000.00 1 8.000.00 1 8.000.00 1 108.000.00 2 174.000.00 2 174.000.00
The second value of the second	97 97 97 91 40 40 40 40 40 40		\$ 27,000.00 \$ 210,000.00 \$ 621,000.00 \$ 625,000.00		\$ 140,000 \$ 140,000 \$ 210,000	\$ 39,000.00 \$ 178,000.00 \$ 1,000.00 \$ 236,000.00		104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00
FEGA Foreign Community Com	97 97 97 97 98 90 90 90 90 90 90 90 90 90 90 90 90 90		\$ 27,000.00 \$ 210,000.00 \$ 621,000.00 \$ 650,000.00		\$ 140,000 \$ 140,000 \$ 210,000	\$ 38,000.00 \$ 176,000.00 \$ 18,000.00 \$ 280,000.00 \$ 200,000.00		178.000.00 178.000.00 1
FEGA Foreign Community Com	97 97 97 97 97 97 97 97 97 97 97 97 97 9		\$ 27,000.00 \$ 210,000.00 \$ 621,000.00 \$ 650,000.00	\$ 75,000.00	\$ 160,000.00	\$ 30,000.00 \$ 171,000.00 \$ 18,000.00 \$ 28,000.00		104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.00
FEGA Foreign Community Com	971 971 971 971 971 971 972 973 974 975 975 975 975 975 975 975 975 975 975		\$ 27,000.00 \$ 210,000.00 \$ 621,000.00 \$ 650,000.00		\$ 160,000.00	\$ 30,000.00 \$ 171,000.00 \$ 18,000.00 \$ 28,000.00		104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00
FEGA Foreign Community Com	971 971 971 971 401 402 403 403 403 403 504 504 505 506 507 507 507 507 507 507 507 507		\$ 27,000.00 \$ 210,000.00 \$ 621,000.00 \$ 650,000.00	\$ 75,000,00 \$ 41,000,00	\$ 140,000.00 \$ 140,000.00 \$ 20,000.00 \$ 15,000.00 \$ 11,000.00	\$ 30,000.00 \$ 171,000.00 \$ 18,000.00 \$ 28,000.00		100.000.00 100.000.00 100.000.00 100.000.00 100.000.00 100.000.00 100.000.00 100.000.00 100.000.00 100.000.00
FEGA Foreign Community Com	371 371 371 401 402 403 403 403 403 403 504 505 506 501 501 501 501 501 501 501 501 501 501		\$ 27,000.00 \$ 210,000.00 \$ 621,000.00 \$ 650,000.00		\$ 160,000.00 \$ 160,000.00 \$ 2,000.00 \$ 150,000.00 \$ 110,000.00	\$ 39,000.00 \$ 178,000.00 \$ 1,000.00 1\$ 228,000.00		178.000.00 18.000.00 18.000.00 19.000.00 19.000.00 19.000.00 19.000.00 19.000.00 19.000.00 19.000.00 19.000.00 19.000.00 19.000.00 19.000.00 19.000.00 19.000.00 19.000.00 19.000.00 19.000.00 19.000.00 19.000.00
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Francisco Collei FFOO Florings Collei C-Buffoo Cealing C-Buffoo Cealing C-Reduction Cealing C-Reduction Cealing C-Vision 971 971 971 971 401 402 403 403 405 405 605 606 606 607 607 607 607 607 607		\$ 27,000.00 \$ 210,000.00 \$ 621,000.00 \$ 650,000.00	\$ 75,000,00 \$ 41,000,00	\$ 140,000.00 \$ 140,000.00 \$ 20,000.00 \$ 150,000.00 \$ 140,000.00 \$ 150,000.00 \$ 30,000.00	\$ 30,000.00 \$ 178,000.00 \$ 18,000.00 \$ 228,000.00 \$ vok.000.00		104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00 104.000.00	
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STATE OF NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES OIL CONSERVATION DIVISION

APPLICATIONS OF COG OPERATING LLC FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO

CASE NOS. 21667 & 21668

GEOLOGIST AFFIDAVIT

Travis Sparks, of lawful age and being first duly sworn, declares as follows:

- 1. My name is Travis Sparks, and I am a Geologist with COG Operating LLC ("COG").
- 2. I have previously testified before the New Mexico Oil Conservation Division ("Division") as an expert witness in petroleum geology matters and my credentials have been accepted and made a matter of public record.
- 3. I am familiar with the applications filed by COG in these cases and I have conducted a geologic study of the lands in the subject area.
- 4. COG is targeting the Wolfcamp formation with its proposed Mercury State Com 701H, 702H, 703H, 704H, 705H and 706H wells (collectively the "Wells").
- 5. Attachment D is a locator map displaying COG's acreage in yellow for the Wolfcamp formation. Existing producing wells in the Wolfcamp interval are represented by solid lines. The approximate wellbore paths for the Wells are marked by dashed lines.
- 6. Attachment E is a subsea structure map that I prepared for the top of the Wolfcamp that is representative of the targeted interval within the Wolfcamp interval. The data points are indicated by crosses. I used the Wolfcamp structure because it is a reliable regional marker and the target intervals lie near this marker. The approximate wellbore paths for the proposed Wells are depicted by dashed lines. The map shows that the formation is gently dipping to the southwest in this area. I do not observe any faulting, pinch-outs, or other geologic impediments to developing the targeted intervals with horizontal wells in this area.

- 7. Attachment F overlays a cross-section line consisting of three wells penetrating the Wolfcamp formation that I used to construct a stratigraphic cross-section from A to A'. I consider these well logs to be representative of the geology in the area.
- Attachment G is a stratigraphic cross-section using the representative wells depicted on Attachment F. Each well in the cross-section contains gamma ray, resistivity, and porosity logs. The proposed target intervals in the Wolfcamp formation are labeled on the exhibit. The cross-section demonstrates that the targeted intervals are continuous across the proposed spacing units.
- 9. In my opinion, the stand-up orientation of the proposed wells is the preferred orientation for horizontal well development in this area and is appropriate to efficiently and effectively develop the subject acreage.
- 10. Based on my geologic study, the targeted interval underlying the subject area is suitable for development by horizontal wells, and the acreage comprising the proposed spacing units will contribute, more-or-less, equally to the production from the wellbores.
- In my opinion, the granting of COG's applications will be in the best interest 11. of conservation, the prevention of waste, and the protection of correlative rights.
- Exhibit 2 and Attachments D through G were either prepared by me or 12. compiled under my direction and supervision.

THIS CONCLUDES AFFIANT'S STATEMENT.

Affiant

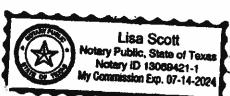
STATE OF) NEW MEXICO

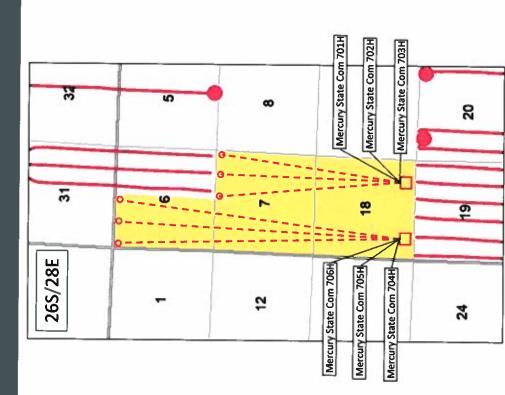
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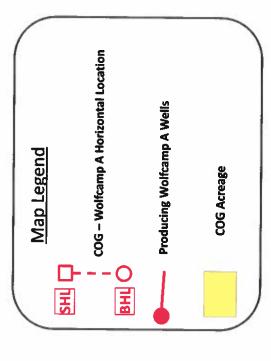
SUBSCRIBED and SWORN to before me this ${f 3}$

NOTARY PUBLIC

My Commission Expires:







BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Case No. 21667 Attachment No. D
Submitted by:
COG OPERATING LLC
Hearing Date: March 4, 2021

3/2/2021

WFMP Structure

COG - Wolfcamp A Horizontal Location - Producing Wolfcamp A Wells Map Legend Wolfcamp Structure CI: 25' COG Acreage \$6067 Data Point SHL BHLO Mercury State Com 701H Mercury State Com 702H Mercury State Com 703H

Mercury State Com 706H

Mercury State Com 705H

Mercury State Com 704H

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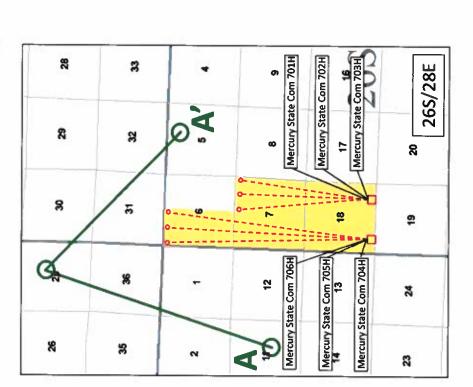
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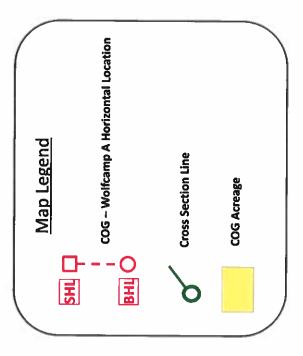
BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Case No. 21667 Attachment No. E

Submitted by:
COG OPERATING LLC
Hearing Date: March 4, 2021

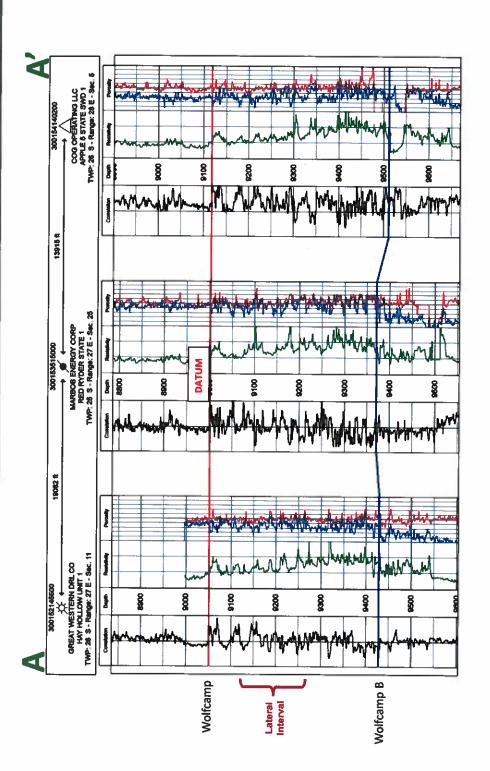
3/2/2021

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BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Case No. 21667 Attachment No. F
Submitted by:
COG OPERATING LLC
Hearing Date: March 4, 2021



BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Case No. 21667 Attachment No. G
Submitted by:
COG OPERATING LLC
Hearing Date: March 4, 2021

3/2/2023

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

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

CASE NO. 21668

<u>AFFIDAVIT</u>

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

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

Ocean Munds-Dry

SUBSCRIBED AND SWORN to before me this 2nd day of March 2021 by Ocean

Munds-Dry.



pary Public

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Case No. 21667 Exhibit No. 3

Submitted by:

COG OPERATING LLC

Hearing Date: March 4, 2021

February 12, 2021

VIA CERTIFIED MAIL RETURN RECEIPT REQUESTED

TO ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS

Case No. 21668: Application of COG Operating, LLC for Compulsory Pooling, Re: Eddy County, New Mexico.

To Whom It May Concern:

This letter is to advise you that COG Operating LLC has filed the enclosed application with the New Mexico Oil Conservation Division. The hearing will be conducted on March 4, 2021 beginning at 8:15 a.m.

During the COVID-19 Pubic Health Emergency, state buildings are closed to the public and hearings will be conducted remotely. To participate in the electronic hearing, see the instructions posted on the OCD Hearings website: http://www.emnrd.state.nm.us/OCD/announcements.html. You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging the matter at a later date.

Pursuant to Division Rule 19.135.4.13.B, parties appearing in a case are required to file a pre-hearing Statement at least four business days in advance of a scheduled hearing, but in no event later than 5:00 p.m. mountain time, on the Thursday preceding the scheduled hearing date. The statement must be filed at the Division's Santa Fe office or electronically submitted to ocd.hearings@state.nm.us and should include: the names of the parties and their attorneys, a concise statement of the case, the names of all witnesses the party will call to testify at the hearing, the approximate time the party will need to present its case, and identification of any procedural matters that are to be resolved prior to the hearing.

If you have any questions about this matter, please contact Lizzy Laufer at (432) 221-0470 or elaufer@concho.com.

Sincerely,

/s/ Michael Rodriguez Michael Rodriguez COG OPERATING LLC

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U.S. Postal Service" CERTIFIED MAIL® RECEIPT Domestic Mail Only	For delivery information, wist our website at www.usps.com? Certified Mail Fee South Services & Fees (clear box, gr. as a percentar) Return Receipt (feartcopy) Return Receipt (electronic) Contiled Mail Restricted Delivery & FEB Adult Synsture Restricted Delivery & FEB Adult Synsture Restricted Delivery & FEB Postage	EOG Resources Inc. 5509 Champions Blyd 501-9998 Midland, TX 79706 Attn: Tracy Jordan PS Form 3800. April 2015 PSY 7550 to 1000047 See Reverse for Instructions
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