

COG OPERATING LLC
Atticus State Com 701H-706H
Section 36-T25S-27E
Eddy County, New Mexico

Case Nos. 21259-21260
BEFORE THE OIL CONSERVATION DIVISION
EXAMINER HEARING August 20, 2020



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 NOS. 21259-21260

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COMPULSORY POOLING APPLICATION CHECKLIST ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS Case: 21259 APPLICANT'S RESPONSE Date: August 20, 2020 **Applicant COG Operating LLC** Designated Operator & OGRID (affiliation if applicable) 229137 Applicant's Counsel: Holland & Hart Case Title: APPLICATION OF COG OPERATING LLC FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO. Entries of Appearance/Intervenors: Chevron USA Inc. Well Family Atticus State Com wells Formation/Pool Formation Name(s) or Vertical Extent: Wolfcamp Primary Product (Oil or Gas): Oil Pooling this vertical extent: N/A Pool Name and Pool Code: Purple Sage; Wolfcamp (Gas) Pool (98220) Well Location Setback Rules: Standard Spacing Unit Size: 960-acres, more or less Spacing Unit Type (Horizontal/Vertical) Horizontal Size (Acres) 960-acres, more or less **Building Blocks:** half sections Orientation: north-south Description: TRS/County E/2 of Sections 24, 25, and 36, Township 25 South, R27 Standard Horizontal Well Spacing Unit (Y/N), If No, describe Yes Other Situations Depth Severance: Y/N. If yes, description No Proximity Tracts: If yes, description No Proximity Defining Well: if yes, description N/A Applicant's Ownership in Each Tract Exhibit C-3 Well(s) Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico

Exhibit No. A
Submitted by: COG OPERATING LLC
Hearing Date: August 20, 2020

Case Nos. 21259-21260

Well #1	Attions State Com 70111 (20 045 45050)
Well #1	Atticus State Com 701H (30-015-46869) SHL: 315' FSL and 960' FEL (Unit P) of Section 36
	BHL: 200' FNL and 450' FEL (Unit A) of Section 24,
	Township 25 South, Range 27 East
	Completion Target: Wolfcamp formation
	Well Orientation: south-north
	Completion Location expected to be: Standard
	Atticus State Com 702H (30-015-46873)
	SHL: 315' FSL and 990' FEL (Unit P) of Section 36
	BHL: 200' FNL and 1350' FEL (Unit B) of Section 24,
	Township 25 South, Range 27 East
	Completion Target: Wolfcamp formation Well Orientation: south-north
	Completion Location expected to be: Standard
Well #3	Atticus State Com 703H (30-015-46870)
	SHL: 345' FSL and 2618' FWL (Unit N) of Section 36
	BHL: 200' FNL and 2250' FEL (Unit B) of Section 24, Township 25 South, Range 27 East
	Completion Target: Wolfcamp formation
	Well Orientation: south-north
	Completion Location expected to be: Standard
Horizontal Well First and Last Take Points	Exhibit C-2
Completion Target (Formation, TVD and MD)	Exhibit C-4
AFE Capex and Operating Costs	
Drilling Supervision/Month \$	\$8,000
Production Supervision/Month \$	\$800
Justification for Supervision Costs	Exhibit C
Requested Risk Charge	200%
Notice of Hearing	
Proposed Notice of Hearing	Exhibit B
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit E
Proof of Published Notice of Hearing (10 days before hearing)	Exhibit F
Ownership Determination	Fullilla C 2
Land Ownership Schematic of the Spacing Unit Tract List (including lease numbers and owners)	Exhibit C-3
Tract List (including lease numbers and owners) Pooled Parties (including ownership type)	Exhibit C-3 Exhibit C-3
Tooled Farties (including Ownership type)	LAHIDIC C-3
Unlocatable Parties to be Pooled	N/A
Ownership Depth Severance (including percentage above & below)	N/A
Joinder	
Sample Copy of Proposal Letter	Exhibit C-4
List of Interest Owners (ie Exhibit A of JOA)	Exhibit C-3

Chronology of Contact with Non-Joined Working Interests	Exhibit C-5
Overhead Rates In Proposal Letter	Exhibit C-4
Cost Estimate to Drill and Complete	Exhibit C-4
Cost Estimate to Equip Well	Exhibit C-4
Cost Estimate for Production Facilities	Exhibit C-4
Geology	
Summary (including special considerations)	Exhibit D
Spacing Unit Schematic	Exhibit D-1
Gunbarrel/Lateral Trajectory Schematic	Exhibit D-1
Well Orientation (with rationale)	Exhibit D-1
Target Formation	Exhibit D-2
HSU Cross Section	Exhibit D-3, D-4
Depth Severance Discussion	N/A
Forms, Figures and Tables	
C-102	Exhibit C-2
Tracts	Exhibit C-3
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit C-3
General Location Map (including basin)	Exhibit D-1
Well Bore Location Map	Exhbit D-2
Structure Contour Map - Subsea Depth	Exhibit D-2
Cross Section Location Map (including wells)	Exhibit D-3, D-4
Cross Section (including Landing Zone)	Exhibit D-3, D-4
Additional Information	
Special Provisions/Stipulations	None
CERTIFICATION: I hereby certify that the information pro	ovided in this checklist is complete and accurate.
Printed Name (Attorney or Party Representative):	Kaitlyn A. Luck
Signed Name (Attorney or Party Representative):	trovilule
Date:	18-Aug-20

COMPULSORY POOLING APPLICATION CHECKLIST

ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS							
Case: 21260	APPLICANT'S RESPONSE						
Date: August 20, 2020							
Applicant	COG Operating LLC						
Designated Operator & OGRID (affiliation if applicable)	229137						
Applicant's Counsel:	Holland & Hart						
Case Title:	APPLICATION OF COG OPERATING LLC FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO.						
Entries of Appearance/Intervenors:	Chevron USA Inc.						
Well Family	Atticus State Com wells						
Formation/Pool							
Formation Name(s) or Vertical Extent:	Wolfcamp						
Primary Product (Oil or Gas):	Oil						
Pooling this vertical extent:	N/A						
Pool Name and Pool Code:	Purple Sage; Wolfcamp (Gas) Pool (98220)						
Well Location Setback Rules:	Standard						
Spacing Unit Size:	960-acres, more or less						
Spacing Unit							
Type (Horizontal/Vertical)	Horizontal						
Size (Acres)	960-acres, more or less						
Building Blocks:	half sections						
Orientation:	north-south						
Description: TRS/County	E/2 of Sections 24, 25, and 36, Township 25 South, R27 East, N.M.P.M., Eddy County, New Mexico						
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes						
Other Situations							
Depth Severance: Y/N. If yes, description	No						
Proximity Tracts: If yes, description	No						
Proximity Defining Well: if yes, description	N/A						
Applicant's Ownership in Each Tract	Exhibit C-3						
Well(s)							
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)							

Well #1	Atticus State Com 704H (30-015-46871)
	SHL: 345' FSL and 2588' FWL (Unit N) of Section 36
	BHL: 200' FNL and 2310' FWL (Unit C) of Section 24,
	Township 25 South, Range 27 East
	Completion Target: Wolfcamp formation Well Orientation: south-north
	Completion Location expected to be: Standard
	completion Eduction expected to be, standard
Well #2	Atticus State Com 705H (30-015-46872)
	SHL: 330' FSL and 807' FWL (Unit M) of Section 36
	BHL: 200' FNL and 1230' FWL (Unit D) of Section 24, Township 25 South, Range 27 East
	Completion Target: Wolfcamp formation
	Well Orientation: south-north
	Completion Location expected to be: Standard
Well #3	Atticus State Com 706H (30-015-46875)
	SHL: 330' FSL and 777' FWL (Unit M) of Section 36
	BHL: 200' FNL and 330' FWL (Unit D) of Section 24,
	Township 25 South, Range 27 East
	Completion Target: Wolfcamp formation Well Orientation: south-north
	Completion Location expected to be: Standard
Horizontal Well First and Last Take Points	Exhibit C-2
Honzontal Well First and East Take Fornts	EXHIBIT C-2
Completion Target (Formation, TVD and MD)	Exhibit C-4
AFE Capex and Operating Costs	
Drilling Supervision/Month \$	\$8,000
Production Supervision/Month \$	\$800
Justification for Supervision Costs	Exhibit C
Requested Risk Charge	200%
Notice of Hearing	
Proposed Notice of Hearing	Exhibit B
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Ownership Depth Severance (including percentage above & below)	N/A
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Depth Severance Discussion	N/A
Forms, Figures and Tables	
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Cross Section (including Landing Zone)	Exhibit D-3, D-4
Additional Information	
Special Provisions/Stipulations	None
CERTIFICATION: I hereby certify that the information pro	ovided in this checklist is complete and accurate.
Printed Name (Attorney or Party Representative):	Kaitlyn A. Luck
Signed Name (Attorney or Party Representative):	South 1 1
Date:	18-Aug-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. 21259

APPLICATION

COG Operating LLC ("Applicant") (OGRID No. 229137), through its undersigned attorneys, hereby files this application with the Oil Conservation Division pursuant to the provisions of NMSA 1978, § 70-2-17, for an order pooling all uncommitted interests in the Wolfcamp formation underlying a standard 960-acre, more or less, horizontal spacing unit comprised of the E/2 of Sections 24, 25, and 36, Township 25 South, Range 27 East, Eddy County, New Mexico. In support of its application, COG states:

- 1. Applicant is a working interest owner in the proposed horizontal spacing unit and has the right to drill thereon.
- 2. Applicant seeks to dedicate the above-referenced horizontal spacing unit to the following proposed wells:
 - the Atticus State Com #701H well and the Atticus State Com #702H well, both of which will be drilled from a common surface hole location in the SE/4 SE/4 (Unit P) of Section 36 to bottom hole locations in the NE/4 NE/4 (Unit A) of Section 24; and
 - the Atticus State Com #703H well, to be drilled from a surface hole location in SE/4 SW/4 (Unit N) of Section 36 to a bottom hole location in the NW/4 NE/4 (Unit B) of Section 24.

- 3. The completed intervals of these wells will comply with the requirements of the Special Rules for the Purple Sage Wolfcamp Pool.
- 4. Applicant has sought and been unable to obtain voluntary agreement for the development of these lands from all the interest owners in the subject spacing unit.
- 5. The pooling of interests will avoid the drilling of unnecessary wells, will prevent waste, and will protect correlative rights.
- 6. In order to permit Applicant to obtain it's just and fair share of the oil and gas underlying the subject lands, all uncommitted interests in this horizontal spacing unit should be pooled and Applicant should be designated the operator of the proposed horizontal well spacing unit.

WHEREFORE, Applicant requests that this application be set for hearing before an Examiner of the Oil Conservation Division on May 14, 2020, 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 Applicant as the operator of this spacing unit and the horizontal wells to be drilled thereon;
- D. Authorizing Applicant to recover its costs of drilling, equipping, and completing the wells;
- E. Approving the actual operating charges and costs of supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedures; and

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

Respectfully submitted,

HOLLAND & HART LLP

By:

Michael H. Feldewert

Adam G. Rankin

Julia Broggi

Kaitlyn A. Luck

Post Office Box 2208

Santa Fe, New Mexico 87504-2208

(505) 988-4421

(505) 983-6043 Facsimile

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kaluck@hollandhart.com

ATTORNEYS FOR COG OPERATING LLC

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. 21260

<u>APPLICATION</u>

COG Operating LLC ("Applicant") (OGRID No. 229137), through its undersigned attorneys, hereby files this application with the Oil Conservation Division pursuant to the provisions of NMSA 1978, § 70-2-17, for an order pooling all uncommitted interests in the Wolfcamp formation underlying a standard 960-acre, more or less, horizontal spacing unit comprised of the W/2 of Sections 24, 25, and 36, Township 25 South, Range 27 East, Eddy County, New Mexico. In support of its application, COG states:

- 1. Applicant is a working interest owner in the proposed horizontal spacing unit and has the right to drill thereon.
- 2. Applicant seeks to dedicate the above-referenced horizontal spacing unit to the following proposed wells:
 - the Atticus State Com #704H well, to be drilled from a surface hole location in SE/4 SW/4 (Unit N) of Section 36 to a bottom hole location in the NE/4 NW/4 (Unit C) of Section 24; and
 - well, both of which will be drilled from a common surface hole location in the SW/4 SW/4 (Unit M) of Section 36 to bottom hole locations in the NW/4 NW/4 (Unit D) of Section 24.

- 3. The completed intervals of these wells will comply with the requirements of the Special Rules for the Purple Sage Wolfcamp Pool.
- 4. Applicant has sought and been unable to obtain voluntary agreement for the development of these lands from all the interest owners in the subject spacing unit.
- 5. The pooling of interests will avoid the drilling of unnecessary wells, will prevent waste, and will protect correlative rights.
- 6. In order to permit Applicant to obtain it's just and fair share of the oil and gas underlying the subject lands, all uncommitted interests in this horizontal spacing unit should be pooled and Applicant should be designated the operator of the proposed horizontal well spacing unit.

WHEREFORE, Applicant requests that this application be set for hearing before an Examiner of the Oil Conservation Division on May 14, 2020, 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 Applicant as the operator of this spacing unit and the horizontal wells to be drilled thereon;
- D. Authorizing Applicant to recover its costs of drilling, equipping, and completing the wells;
- E. Approving the actual operating charges and costs of supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedures; and

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

Respectfully submitted,

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ATTORNEYS FOR COG OPERATING LLC

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 NOS. 21259-21260

AFFIDAVIT OF LIZZY LAUFER, LANDMAN, IN SUPPORT OF CASE NOS. 21259 & 21260

Lizzy Laufer, being of lawful age and duly sworn, states the following:

1. My name is Lizzy Laufer, and I am employed by COG Operating LLC ("COG") as

a Landman.

2. I am familiar with the applications filed by COG these consolidated matters and the

status of the lands in the subject area.

3. COG Exhibit C-1 is a copy of my resume. I have not previously testified before

the New Mexico Oil Conservation Division as an expert witness in petroleum land matters. I

graduated from the University of Oklahoma with a B.A in Energy Management in 2016. Since

2016, I have worked with COG as a Landman in the Permian Basin. I am a member of American

Association of Professional Landmen (A.A.P.L.) and Permian Basin Landmen's Association

(P.B.L.A.). I seek to be qualified by the Division as an expert witness in petroleum land matters

and believe my credentials warrant that qualification.

4. None of the mineral owners to be pooled have expressed opposition to these cases

proceeding by affidavit, so I do not expect any opposition at the hearing.

5. In these consolidated cases, COG seeks orders pooling all uncommitted interests in

the Wolfcamp formation (Purple Sage; Wolfcamp (Gas) Pool [98220]) underlying standard 960-

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BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Case Nos. 21259-21260

acre, more or less, horizontal spacing units comprised of the E/2 and the W/2 of Sections 24, 25, and 36, Township 25 South, Range 27 East, Eddy County, New Mexico.

- 6. Under Case 21259, COG seeks to form and initially dedicate the E/2 spacing unit to the following proposed initial wells:
 - The Atticus State Com #701H well (API No. 30-015-46869) to be drilled from a surface hole location in the SE/4 SE/4 (Unit P) of Section 36 to a bottom hole location in the NE/4 NE/4 (Unit A) of Section 24;
 - The Atticus State Com #702H well (API No. 30-015-46873) to be drilled from a surface hole location in the SE/4 SE/4 (Unit P) of Section 36 to a bottom hole location in the NW/4 NE/4 (Unit B) of Section 24; and
 - The Atticus State Com #703H well (API No. 30-015-46870), to be drilled from a surface hole location in SE/4 SW/4 (Unit N) of Section 36 to a bottom hole location in the NW/4 NE/4 (Unit B) of Section 24.
- 7. Under Case 21260, COG seeks to form and initially dedicate the W/2 spacing unit to the following proposed initial wells:
 - The Atticus State Com #704H well (API No. 30-015-46871), to be drilled from a surface hole location in SE/4 SW/4 (Unit N) of Section 36 to a bottom hole location in the NE/4 NW/4 (Unit C) of Section 24; and
 - The Atticus State Com #705H (API No. 30-015-46872) and Atticus State Com #706H (API No. 30-015-46875) wells, both of which will be drilled from a common surface hole location in the SW/4 SW/4 (Unit M) of Section 36 to bottom hole locations in the NW/4 NW/4 (Unit D) of Section 24.

- 8. The completed intervals of these wells will comply with the requirements of the Special Rules for the Purple Sage Wolfcamp Gas Pool.
- 9. COG Exhibit C-2 contains Form C-102s for the proposed initial wells for each spacing unit in numerical order and reflecting that these wells are located in the Purple Sage; Wolfcamp (Gas) Pool [98220].
- 10. COG Exhibit C-3 identifies the tracts of land comprising the proposed spacing units, the working interest ownership in each tract and their respective interest in the horizontal spacing units. COG has highlighted on Exhibit C-3 the mineral owners that remain to be pooled for each proposed spacing unit. COG has also listed an overriding royalty interest owner that requires pooling. The acreage is comprised of fee and state land.
- 11. No ownership depth severances exist within in the Wolfcamp formation underlying the subject acreage.
- 12. COG has conducted a diligent search of company records, county records, telephone directors and conducted computer searches to locate contact information for each of the mineral owners that it seeks to pool. All of the pooled mineral owners have been located.
- 13. COG Exhibit C-4 contains a sample of the letters and AFE's for the proposed wells sent to the working interest owners that COG has been able to locate. The costs reflected on these AFE's are consistent with what COG and other operators have incurred for drilling similar horizontal wells in the area in these formations.
- 14. **COG Exhibit C-5** contains a chronology of the contacts with the uncommitted mineral owners COG was able to locate. COG has made a good faith effort to obtain voluntary joinder of these owners in the proposed wells.

- 15. COG requests overhead and administrative rates of \$8,000 per month for drilling and \$800 per month for a producing well. These rates are consistent with the rates charged by COG and other operators for similar wells in this area.
- 16. I have provided the law firm of Holland and Hart, LLP, with the names and addresses of the mineral owners that COG seeks to pool and instructed that they be notified of this hearing.
- 17. COG Exhibits C-1 through C-5 were prepared by me or compiled under my direction from company business records.

FURTHER AFFIANT SAYETH NAUGHT.

E Janver LIZZY LAUFER

STATE OF TEXAS)
COUNTY OF MIDLAND)
SUBSCRIBED and SWOI	RN to before me this Min day of August 2020 by
Lizzy Laufer.	NOTARY PUBLIC
My Commission Expires: August 4, hold	COLE BARNETT ELARK Modary ID #129907840 My Commission Explies August 4: 2022

Elizabeth Laufer

600 W. Illinois Ave Midland, TX 79701 (469) 221-0470 • ELaufer@Concho.com

EMPLOYMENT EXPERIENCE

COG Operating LLC - Midland, TX

Landman II (October 2018 – Present)

- Coordinated with Engineering and Geology to plan for optimal field development and drilling efficiencies
- Drafted, interpreted and negotiated various contacts including Joint Operating Agreements, production sharing agreements, pooling agreements, oil and gas leases, etc.
- Responsible for managing brokers to guarantee quality and accurate work product with specified deadlines
- Monitored and ensured compliance with contractual and drilling obligations while maintaining constant communication with members of technical asset team to schedule continual operations for three rig lines
- Assisted in a multi-disciplinary team in accomplishing goals and objectives within budgetary guidelines to evaluate acquisitions, divestitures and various trade opportunities

Landman I (June 2017 – October 2018)

- Conducted title research, patent to present, pre-drill and division order title opinion curative and appropriate due diligence in connection with acquisitions for producing and non-producing properties
- Monitored lease expirations and determined whether an extension or operation was necessary to perpetuate leasehold
- Maintained professional relationships with various mineral owners and cohorts

Landman – Land Administration Rotation (June 2016- June 2017)

- Created and calculated divisions of interests for newly producing wells, recommending owner pay status and validating ownership transfers
- Responsible for creating, organizing and maintaining files for leases, wells and title opinions
- Analyzed, interpreted, input and organized leases and contacts
- verified acres attributed to leases and contracts

EDUCATION

Bachelor of Business Administration

Energy Management/Minor in Finance, May 2016

The University of Oklahoma

SKILLS

Proficient in: Quorum, P2 Land, Enertia, Generwell, Drilling Info, Railroad Commission of Texas, Adobe, Loving and Winkler County Abstract Websites, New Mexico Oil Conservation Division

MEMBERSHIPS

American Association of Professional Landmen (AAPL) – Midland, TX Permian Basin Landmen's Association (PBLA) – Midland, TX Midland Young Professionals in Energy

Santa Fe, New Mexico
Exhibit No. C1
Submitted by: COG OPERATING LLC

Hearing Date: August 20, 2020 Case Nos. 21259-21260 District 1
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, Azrec, 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

1 API Numbe 30-015-	r 2 Pool Code 98220	- 1 6 W			
4 Property Code		Property Name US STATE COM	6 Well Number 701H		
7 OGRID No. 229137		Operator Name PERATING LLC	9 Elevation 3095'		

Surface Location

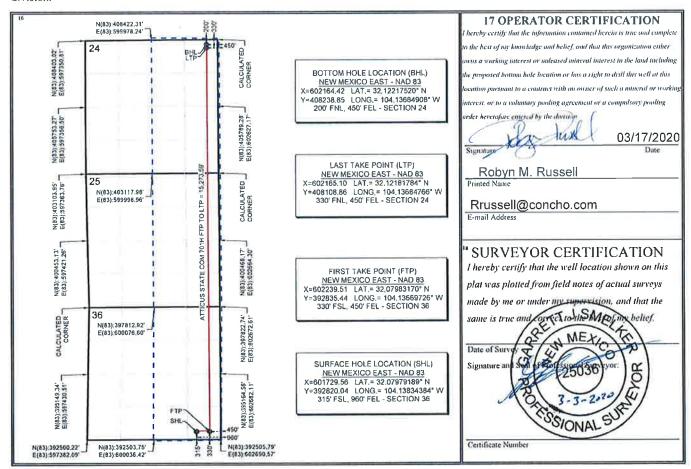
	VL or lot no.	Section 36	25-S	Range 27-E	Lot Idn	315'	SOUTH	960'	EAST	EDDY	
2	" Bottom Hole Location If Different From Surface										
ì	UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	

A 24 25-S 27-E 200' NORTH 450' EAST EDDY

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

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



BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Exhibit No. C2
Submitted by: COG OPERATING LLC
Hearing Date: August 20, 2020

Case Nos. 21259-21260

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

<u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District JV</u>

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

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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

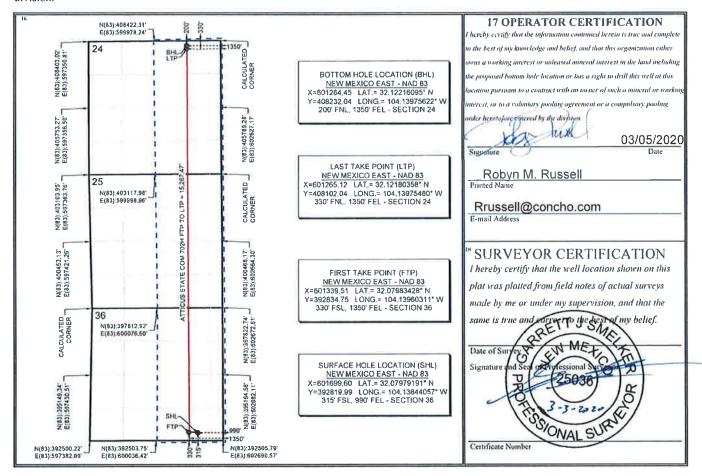
WELL LOCATION AND ACREAGE DEDICATION PLAT

I API Numbe	r	2 Pool Code	3 Pool Name		
30-015-		98220	Purple Sage; Wolfcamp		
4 Property Code			roperty Name S STATE COM	6 Well Number 702H	
7 OGRID No. 229137			perator Name ERATING LLC	9 Elevation 3096'	

"Surface Location

UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County		
Р	36	25-S	27-E		315'	SOUTH	990'	EAST	EDDY		
,tr	" Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	Range	Løt fdn	Feet from the	North/South line	Feet from the	East/West line	County		
В	24	25-S	27-E		200'	NORTH	1350'	EAST	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 1 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

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

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

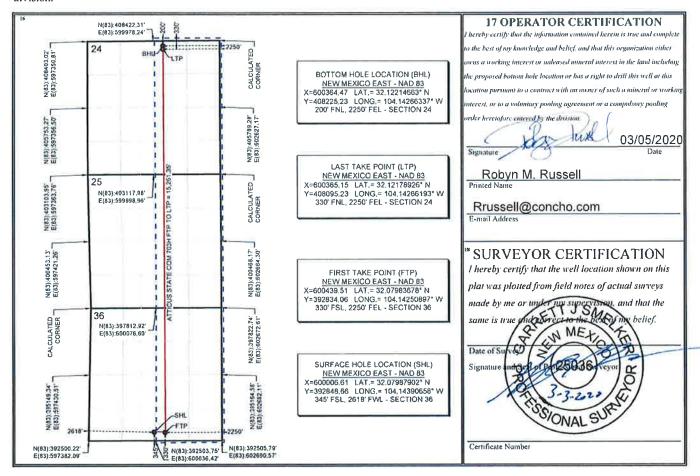
WELL LOCATION AND ACREAGE DEDICATION PLAT

I API Numbe	r	2 Pool Code	3 Pool Name		
30-015-		98220	Purple Sage; Wolfcamp		
4 Property Code			roperty Name S STATE COM	6 Well Number 7031-I	
7 OGRID No. 229137			perator Name ERATING LLC	9 Elevation 3120'	

Surface Location

UL or lot no.	Section	Township	Range	Løt ldn	Feet from the	North/South line	Feet from the	East/West line	County
N	36	25-S	27-E		345	SOUTH	2618'	WEST	EDDY
"Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
В	24	25-S	27-E		200'	NORTH	2250'	EAST	EDDY
12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.									
960									

No allowable will be assigned to this completion until all interests have been consolidated or a noπ-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

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

Section

36

UL or lot no.

N

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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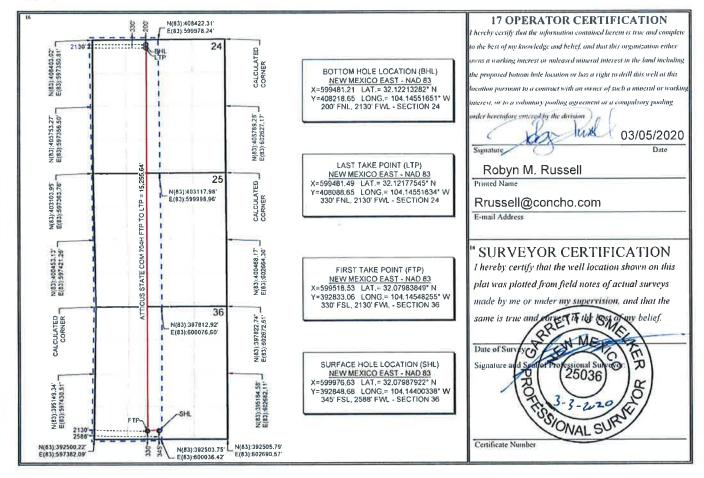
WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Numbe 30-015-	2 Pool Code 98220	3 Pool Name Purple Sage; Wolfcan	np
4 Property Code		roperty Name S STATE COM	6 Well Number 704H
7 OGRID No. 229137		perator Name ERATING LLC	9 Elevation 3121'

Surface Location East/West line Feet from the County Township Range Lot Idn Feet from the North/South line **EDDY** 345' SOUTH 2588 WEST 25-S 27-E

			" Bo	ttom Ho	le Location I	f Different Fro	m Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Enst/West line	County
С	24	25-S	27-E		200'	NORTH	2130'	WEST	EDDY
12 Dedicated Acre	s 13 Joint o	r Infill 14	Consolidation	Code 15 O	rder No.				
960									

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 1
1625 N. French Dr., Hobbs. NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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811 S. First St., Artesia, NM 88210
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1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

III or let no | Section | Township | Range | Lat Man

District IV

960

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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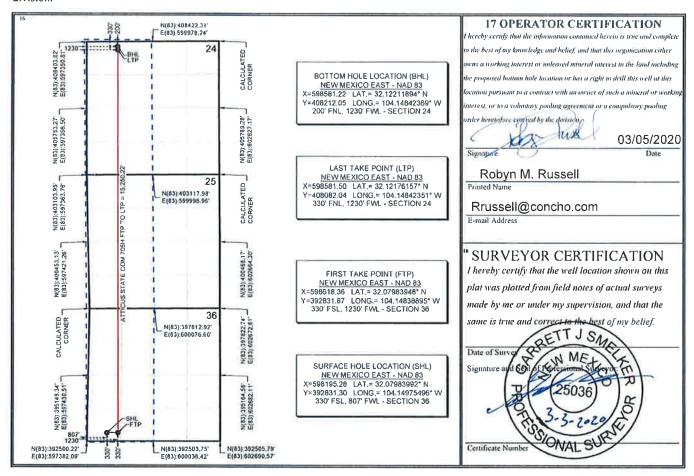
WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Numbu 30-015	Pool Code 98220	3 Pool Name Purple Sage; Wolfcan	ıρ
4 Property Code	5 Property I ATTICUS STA		6 Well Number 7051-I
7 OGRID No. 229137	8 Operator COG OPERAT		9 Elevation 31431

Surface Location

M	36	25-S	27-E	Lot run	330'	SOUTH	807'	WEST	EDDY
			"Bo	ttom Ho	le Location I	f Different Fro	m Surface	*,1	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	24	25-S	27-E		200'	NORTH	1230'	WEST	EDDY
12 Dedicated Acre	s 13 Joint o	r Infill 14 (onsolidation	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.



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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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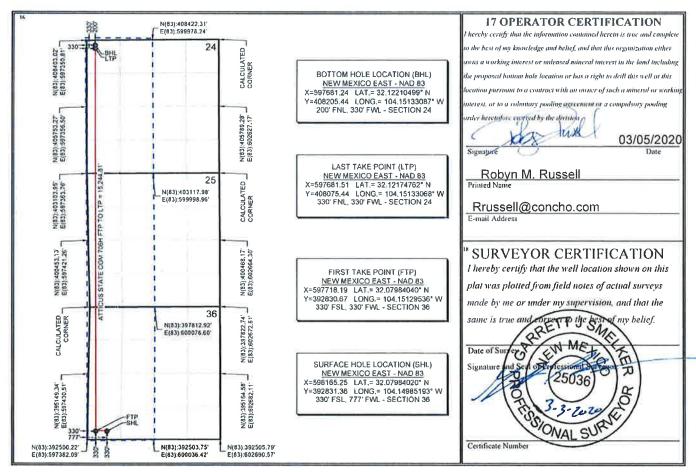
WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Numbe	er	2 Pool Code	3 Pool Name	
30-015-		98220	Purple Sage; Wolfcar	mp
4 Property Code			roperty Name S STATE COM	6 Well Number 706H
7 OGRID No. 229137			perator Name ERATING LLC	9 Elevation 3143'

Surface Location

UL, or lot no.	Section	Lownship	Range	Lot Idn	Feet from the	North/South line	l'eet from the	East/West line	County
M	36	25-S	27-E		330'	SOUTH	777'	WEST	EDDY
			" Bo	ttom Ho	le Location I	f Different Fro	m Surface		
UL or let no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	24	25-S	27-E		200'	NORTH	330'	WEST	EDDY
12 Dedicated Acres	s 13 Joint a	r Infill 14 (Consolidation	Code 15 O	rder No.				-
960									

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.



Santa Fe, New Mexico	
Exhibit No. C3	

Santa Fe, New Mexico
Exhibit No. C3
Submitted by: COG OPERATING LLC
Hearing Date: August 20, 2020
Case Nos. 21259-21260

Santa Fe, New Mexico
Exhibit No. C3

Tract 6 VB-1008-02 160 ac		
BEFORE	THE OIL CONSE	RVATION DIVISIO

	24-255-271		25-255-27		36-255-27	
1		TINU	DNIDA	IS SNOI.	TTA SW	
Î	24-255-27E		25-255-27E		36-255-27E	
	Tract 1 VB-1006-01 160 ac	Trace 2 Feb Holbac	Tract 3 VB-1007-01 160 ac	Tract 4 VB-0995-01 160 ac	Tract 5 VB-0996-02 160 ac	Tract 6 VB-1008-02 160 ac

COG Operating LLC	10.586601%
Concho Oil & Gas LLC	0.289271%
Devon Energy Production Company, LP	2,790795%
Chevron U.S.A. Inc.	%0000000
Read & Stevens, Inc.	%00000000
Well Proposal sent	Yes
Communitization Agreements sent	Yes
Designations of Pooled Unit sent	Yes
Joint Operating Agreements sent	Yes

	LEASEHOLD OWNERSHIP	WNERSHIP				
		THE REAL PROPERTY.			× - 1	W2 Spacing
TR1	TIZ	TR3	TR4	TRS	TR6	Unit Recap
10.586601%	10.586601%	10.586601%	%000000°0	11.875000% 11.875000%	11,875000%	55,509803%
0.289271%	0.289270%	0.289270%	%0000000	%0000000	%00000000	0.867811%
2,790795%	2.790795%	%562062"5	%00000000	%00000000	%00000000	17,372385%
0.0000000	%00000000	%0000000	16.666667%	4.166667%	4.166667%	25.000001%
%00000000	0.000000%	%0000000	%0000000	0.625000%	0.625000%	1.250000%
						100.000000%

LEASEHOLD OWNER

WI / ORRI

Oklahoma City, OK 73102 Chevron U.S.A. Inc. 6301 Deauville

Devon Energy Production Company LP 333 W. Sheridan Ave

₹

Midland, TX 79706 Read & Stevens, Inc. P.O. Box 1518 Roswell, NM 88202

Tract 1 VB-1006-01 160 ac	Craft Spill Spill	Tract 3 VB.1007-01 160-ac	Tract 4 Vg.Q955.01 JG0 ac	Tract of Tract 5 We'che'co Vin 0996-60. NO oc. NO oc.	Tract Tract Velicot Ve
24-255-27E		25-255-27E		36-255-27E	

TINU	DNIDA92 SUDIT	TA S3
24-255-27E	25-256-27E	36-255-27E

Well Proposal sent	Yes
Communitization Agreements sent	Yes
Designations of Pooled Unit sent	Yes
loint Operating Agreements sent	Yes

PARTIES TO POOL							
Devon Energy Production Company LP 333 W. Sheridan Ave Oklahoma City, OK 73102	RI / WI						
Chevron U.S.A. Inc. 6301 Deauville Midland, TX 79706	WI/ORRI						
Read & Stevens, Inc. P.O. Box 1518 Roswell, NM 88202	IW						
			LEASEHOED OWNERSHIP	OWNERSHIP			Birth.
LEASEHOLD OWNER	TRI	181	TR3	184	TRS	TR6	-
COG Operating LLC	10.586601%	10.585601%	10.586601% 10.586601% 10,586601%	9,00000000	7.916667%	7.916667% 5.937500%	_
Concho Oil & Gas LLC	0.289271%	0.289270%	0.289270%	9,0000000.0	0.00000006	0.0000000%	_
Devon Energy Production Company, LP	5.790795%	5.790795%	5.790795% 5.790795% 5.790795% 0.0000000%	960000000	0.000000%	0.000000%	_



February 17, 2020

Via CMRRR No. 91 7199 9991 7039 7968 9114

Devon Energy Production Company, LP

333 W. Sheridan Avenue

Oklahoma City, OK 73102

Attn: Land Department

Re: Atticus State Com 701H, 702H, 703H E/2 Atticus State Com Unit Atticus State Com 704H, 705H, 706H W/2 Atticus State Com Unit Sections 36, 25, 24, T25S-R27E Eddy County, New Mexico

Dear Sir or Madam:

COG Operating, LLC ("COG"), as Operator, hereby proposes the drilling of the following horizontal wells with productive laterals located in E/2 and W/2 of Sections 36, 25, and 24, Township 25 South, Range 27 East, Eddy County, New Mexico (collectively, the "Operation"). The surface pad locations will be located in Units M, N and P of Section 36, T25S-R27E (subject to change).

E/2 ATTICUS STATE COM UNIT

- Atticus State Com 701H, 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 P of Section 36, and a bottom hole location at a legal location in Unit A of Section 24. The dedicated horizontal spacing unit will be the E/2 of Sections 36, 25, and 24 T25S-R27E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$13,545,000.00, as shown on the attached Authority for Expenditure ("AFE").
- Atticus State Com 702H, 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 P of Section 36, and a bottom hole location at a legal location in Unit A of Section 24. The dedicated horizontal spacing unit will be the E/2 of Sections 36, 25, and 24 T25S-R27E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$13,545,000.00, as shown on the attached AFE.
- Atticus 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 N of Section 36, and a bottom hole location at a legal location in Unit B of Section 24. The dedicated horizontal spacing unit will be the E/2 of Sections 36, 25, and 24 T25S-R27E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$13,545,000.00, as shown on the attached AFE.

W/2 ATTICUS STATE COM UNIT

 Atticus State Com 704H, 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 N of Section 36, and a bottom hole location at a legal location in Unit C of

One Concho Center | 600 West Illinois Avenue | Midland, Texas 79701 | P 432.683.744%

February 17, 2020 – Page 2 Atticus State Com 701H-706H

Section 24. The dedicated horizontal spacing unit will be the W/2 of Sections 36, 25, and 24 T25S-R27E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$13,545,000.00, as shown on the attached AFE.

- Atticus State Com 705H, 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 M of Section 36, and a bottom hole location at a legal location in Unit D of
 Section 24. The dedicated horizontal spacing unit will be the W/2 of Sections 36, 25, and 24
 T25S-R27E, Eddy County, New Mexico. The total estimated cost to drill and complete said well
 is \$13,545,000.00, as shown on the attached AFE.
- Atticus State Com 706H, 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 M of Section 36, and a bottom hole location at a legal location in Unit D of Section 24. The dedicated horizontal spacing unit will be the W/2 of Sections 36, 25, and 24 T25S-R27E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$13,545,000.00, as shown on the attached AFE.

COG is proposing to drill these wells under the terms of a two new Operating Agreements covering the E/2 spacing unit and W/2 spacing unit, enclosed herewith. Each of the Operating Agreements have the following general provisions:

- 100/300/300 Non-Consenting Penalty;
- \$8000/\$800 Drilling and Producing Rate; and
- COG Operating LLC named as Operator.

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.

Also enclosed for your review and signature are Designations of Unit for the E/2 and W/2 spacing units. Please execute where indicated and return to my attention.

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 tmacha@concho.com. Should you have any questions, please do not hesitate to contact me at 432.221.0452.

Sincerely,

COG Operating LLC

Travis Macha Landman II

TM:bh Enc

February 17, 2020 – Page 3 Atticus State Com 701H – 706H

Please Indicate your election below:

WELL NAME	PARTICIPATE Elect to participate in drilling & completion of well	DO NOT PARTICIPATE Elect NOT to participate in drilling & completion of well
Atticus St Com 701H		
Atticus St Com 702H		
Atticus St Com 703H		
Atticus St Com 704H		
Atticus St Com 705H		
Atticus St Com 706H		

DEVON ENERGY PRODUCTION COMPANY, LP

Ву:	
Name:	
Title:	
Date:	

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Delivered



February 17, 2020

Via CMRRR No. 91 7199 9991 7039 7968 9121 Chevron U.S.A. Inc. 6301 Deauville Midland, TX 79706 Attn: Kristen Hunter

Re: Atticus State Com 701H, 702H, 703H E/2 Atticus State Com Unit Atticus State Com 704H, 705H, 706H W/2 Atticus State Com Unit Sections 36, 25, 24, T25S-R27E Eddy County, New Mexico

Dear Kristen:

COG Operating, LLC ("COG"), as Operator, hereby proposes the drilling of the following horizontal wells with productive laterals located in E/2 and W/2 of Sections 36, 25, and 24, Township 25 South, Range 27 East, Eddy County, New Mexico (collectively, the "Operation"). The surface pad locations will be located in Units M, N and P of Section 36, T25S-R27E (subject to change).

E/2 ATTICUS STATE COM UNIT

- Atticus State Com 701H, 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 P of Section 36, and a bottom hole location at a legal location in Unit A of Section 24. The dedicated horizontal spacing unit will be the E/2 of Sections 36, 25, and 24 T25S-R27E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$13,545,000.00, as shown on the attached Authority for Expenditure ("AFE").
- Atticus State Com 702H, 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 P of Section 36, and a bottom hole location at a legal location in Unit A of Section 24. The dedicated horizontal spacing unit will be the E/2 of Sections 36, 25, and 24 T25S-R27E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$13,545,000.00, as shown on the attached AFE.
- Atticus 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 N of Section 36, and a bottom hole location at a legal location in Unit B of Section 24. The dedicated horizontal spacing unit will be the E/2 of Sections 36, 25, and 24 T25S-R27E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$13,545,000.00, as shown on the attached AFE.

W/2 ATTICUS STATE COM UNIT

 Atticus State Com 704H, 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 N of Section 36, and a bottom hole location at a legal location in Unit C of Section 24. The dedicated horizontal spacing unit will be the W/2 of Sections 36, 25, and 24 T25S-R27E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$13,545,000.00, as shown on the attached AFE.

- Atticus State Com 705H, 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 M of Section 36, and a bottom hole location at a legal location in Unit D of Section 24. The dedicated horizontal spacing unit will be the W/2 of Sections 36, 25, and 24 T25S-R27E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$13,545,000.00, as shown on the attached AFE.
- Atticus State Com 706H, 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 M of Section 36, and a bottom hole location at a legal location in Unit D of Section 24. The dedicated horizontal spacing unit will be the W/2 of Sections 36, 25, and 24 T25S-R27E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$13,545,000.00, as shown on the attached AFE.

COG is proposing to drill these wells under the terms of a two new Operating Agreements covering the E/2 spacing unit and W/2 spacing unit, enclosed herewith. Each of the Operating Agreements have the following general provisions:

- 100/300/300 Non-Consenting Penalty;
- \$8000/\$800 Drilling and Producing Rate; and
- COG Operating LLC named as Operator.

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.

Also enclosed for your review and signature are Designations of Unit for the E/2 and W/2 spacing units, which will need your execution as a working interest owner, and Communitization Agreements for the E/2 and W/2 spacing units, wherein your signature is needed as a record title owner of one or more leases. Please execute where indicated and return to my attention.

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 tmacha@concho.com. Should you have any questions, please do not hesitate to contact me at 432.221.0452.

Sincerely,

COG Operating LLC

Travis Macha Landman II

TM:bh Enc

February 17, 2020 – Page 3 Atticus State Com 701H – 706H

Please Indicate your election below:

WELL NAME	PARTICIPATE Elect to participate in drilling & completion of well	DO NOT PARTICIPATE Elect NOT to participate in drilling & completion of well
Atticus St Com 701H		
Atticus St Com 702H		
Atticus St Com 703H		
Atticus St Com 704H		
Atticus St Com 705H		
Atticus St Com 706H		

CHEVRON U.S.A. INC.

Ву:		_
Name:		_
Title:	 	
Date:		

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February 17, 2020

Via CMRRR No. 91 7199 9991 7039 7968 9138

Read & Stevens, Inc.
P.O. Box 1518

Roswell, NM 88202

Attn: Land Department

Re: Atticus State Com 701H, 702H, 703H E/2 Atticus State Com Unit Atticus State Com 704H, 705H, 706H W/2 Atticus State Com Unit Sections 36, 25, 24, T25S-R27E Eddy County, New Mexico

Dear Sir or Madam:

COG Operating, LLC ("COG"), as Operator, hereby proposes the drilling of the following horizontal wells with productive laterals located in E/2 and W/2 of Sections 36, 25, and 24, Township 25 South, Range 27 East, Eddy County, New Mexico (collectively, the "Operation"). The surface pad locations will be located in Units M, N and P of Section 36, T25S-R27E (subject to change).

E/2 ATTICUS STATE COM UNIT

- Atticus State Com 701H, 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 P of Section 36, and a bottom hole location at a legal location in Unit A of Section 24. The dedicated horizontal spacing unit will be the E/2 of Sections 36, 25, and 24 T25S-R27E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$13,545,000.00, as shown on the attached Authority for Expenditure ("AFE").
- Atticus State Com 702H, 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 P of Section 36, and a bottom hole location at a legal location in Unit A of Section 24. The dedicated horizontal spacing unit will be the E/2 of Sections 36, 25, and 24 T25S-R27E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$13,545,000.00, as shown on the attached AFE.
- Atticus 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 N of Section 36, and a bottom hole location at a legal location in Unit B of Section 24. The dedicated horizontal spacing unit will be the E/2 of Sections 36, 25, and 24 T25S-R27E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$13,545,000.00, as shown on the attached AFE.

W/2 ATTICUS STATE COM UNIT

 Atticus State Com 704H, 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 N of Section 36, and a bottom hole location at a legal location in Unit C of Section 24. The dedicated horizontal spacing unit will be the W/2 of Sections 36, 25, and 24 T25S-R27E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$13,545,000.00, as shown on the attached AFE.

- Atticus State Com 705H, 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 M of Section 36, and a bottom hole location at a legal location in Unit D of
 Section 24. The dedicated horizontal spacing unit will be the W/2 of Sections 36, 25, and 24
 T25S-R27E, Eddy County, New Mexico. The total estimated cost to drill and complete said well
 is \$13,545,000.00, as shown on the attached AFE.
- Atticus State Com 706H, 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 M of Section 36, and a bottom hole location at a legal location in Unit D of Section 24. The dedicated horizontal spacing unit will be the W/2 of Sections 36, 25, and 24 T25S-R27E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$13,545,000.00, as shown on the attached AFE.

COG is proposing to drill these wells under the terms of a two new Operating Agreements covering the E/2 spacing unit and W/2 spacing unit, enclosed herewith. Each of the Operating Agreements have the following general provisions:

- 100/300/300 Non-Consenting Penalty;
- \$8000/\$800 Drilling and Producing Rate; and
- COG Operating LLC named as Operator.

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.

Also enclosed for your review and signature are Designations of Unit for the E/2 and W/2 spacing units. Please execute where indicated and return to my attention.

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 tmacha@concho.com. Should you have any questions, please do not hesitate to contact me at 432.221.0452.

Sincerely,

COG Operating LLC

Travis Macha Landman II

TM:bh Enc

February 17, 2020 – Page 3 Atticus State Com 701H – 706H

Please Indicate your election below:

WELL NAME	PARTICIPATE Elect to participate in drilling & completion of well	DO NOT PARTICIPATE Elect NOT to participate in drilling & completion of well
Atticus St Com 701H		
Atticus St Com 702H		
Atticus St Com 703H		
Atticus St Com 704H		
Atticus St Com 705H		
Atticus St Com 706H		

READ & STEVENS, INC.

Ву:	
Name:	
Title:	
Date:	

Tracking Number: 9171999991703979689138

Your Item was delivered at 10:38 am on February 20, 2020 in ROSWELL, NM 88201.

Status

⊘ Delivered

February 20, 2020 at 10:38 am Delivered ROSWELL, NM 88201

Get Updates 🗸

Delivered

See More ✓



February 25, 2020

Via CMRRR No. 91 7199 9991 7039 7968 9190

Devon Energy Production Company, LP

333 W. Sheridan Avenue

Oklahoma City, OK 73102

Attn: Land Department

Re:

Atticus State Com 701H, 702H, 703H E/2 Atticus State Com Unit Atticus State Com 704H, 705H, 706H W/2 Atticus State Com Unit Sections 36, 25, 24, T25S-R27E Eddy County, New Mexico

Dear Sir or Madam:

COG Operating, LLC ("COG"), as Operator, previously proposed the Atticus State Com 701H-706H wells located in the E/2 and W/2 of Sections 36, 25, and 24, Township 25 South, Range 27 East, Eddy County, New Mexico. The measured depth identified on the AFEs should be 24,400'. The total vertical depth stated in the proposals and on the AFEs remains the same. We apologize for this error. Please consider the corrected TMD when electing on the operation previously described.

Should you have any questions, please do not hesitate to contact me at 432.221.0452 or tmacha@concho.com.

Sincerely,

COG Operating LLC

Travis Macha Landman II

TM:bh



February 25, 2020

Via CMRRR No. 91 7199 9991 7039 7968 9206 Chevron U.S.A. Inc. 6301 Deauville Midland, TX 79706 Attn: Kristen Hunter

Re:

Atticus State Com 701H, 702H, 703H

E/2 Atticus State Com Unit

Atticus State Com 704H, 705H, 706H

W/2 Atticus State Com Unit Sections 36, 25, 24, T25S-R27E Eddy County, New Mexico

Dear Kristen:

COG Operating, LLC ("COG"), as Operator, previously proposed the Atticus State Com 701H-706H wells located in the E/2 and W/2 of Sections 36, 25, and 24, Township 25 South, Range 27 East, Eddy County, New Mexico. The measured depth identified on the AFEs should be 24,400'. The total vertical depth stated in the proposals and on the AFEs remains the same. We apologize for this error. Please consider the corrected TMD when electing on the operation previously described.

Should you have any questions, please do not hesitate to contact me at 432.221.0452 or tmacha@concho.com.

Sincerely,

COG Operating LLC

Travis Macha Landman II

TM:bh



February 25, 2020

Via CMRRR No. 91 7199 9991 7039 7968 9213
Read & Stevens, Inc.
P.O. Box 1518
Roswell, NM 88202
Attn: Land Department

Re: Atticus State Com 701H, 702H, 703H

E/2 Atticus State Com Unit

Atticus State Com 704H, 705H, 706H

W/2 Atticus State Com Unit Sections 36, 25, 24, T25S-R27E Eddy County, New Mexico

Dear Sir or Madam:

COG Operating, LLC ("COG"), as Operator, previously proposed the Atticus State Com 701H-706H wells located in the E/2 and W/2 of Sections 36, 25, and 24, Township 25 South, Range 27 East, Eddy County, New Mexico. The measured depth identified on the AFEs should be 24,400'. The total vertical depth stated in the proposals and on the AFEs remains the same. We apologize for this error. Please consider the corrected TMD when electing on the operation previously described.

Should you have any questions, please do not hesitate to contact me at 432.221.0452 or tmacha@concho.com.

Sincerely,

COG Operating LLC

Travis Macha Landman II

TM:bh

Well Name ATTICUS STATE COM 701H
SHL 310 FSL 960 FEL OR UNIT P(Sec 36)
BHL 200 FNL 450 FEL OR UNIT A (Sec 24)
Formation WOLFCAMP A
Legal 36-25S-27E
AFE Numbers

Clarifornia Roads	ost Description tangible Costs	Code	PreSpud (PS	Pre-Set Casing	g(PC) Drilling (DR	Completions (C)	Tank Bity Constrctn(TB)	Pmpq Equip (PEC) Revision	
Delina Openhead 900 \$ 1,000,000 \$ 2 \$ \$ \$ \$ \$ \$ \$ \$	Langible Costs	205		_	Te 120 000 00	,			T'e	T # 400.0
Departed Commons				-	\$ 136,000.00					
Decisional Dris Services 190		200		+						
Fig. 64 Protect 11	Disastional Data Consisco									
Water					\$ 456,000.00					\$ 456.0
Billion										
- Much of Chemicals									\$	\$ 108,0
Main of Chemicals	Bits	213			\$ 151,000.00				\$ -	\$ 151,0
Common C	Mud & Chemicals	214								
Comment intermed		217								
Prod John Child					\$ 107,000,00					
Figure Company Compa										
Color Colo										
Contract Labor	Float Equipment & Centralizers									
Company 27	Csg Crews & Equip	222							- 3	\$ 93,0
Sommer S	Contract Labor	225			\$ 10,000.00				\$ -	\$ 10,0
Sommer S	Company Sprvsn	226			S 73.000.00				5 -	
Tall Carpf Tag Multi-Cappin	Contract Sprysn			<u> </u>						
Mod. Logging Unit 229		229			\$ 58,000,00					
Retable Subside (Retable Subside Subside Subside Subside Subside Subside (Retable Subside Subs				+						
Renals Substref 286	Wud Logging Unit	229								
Welding Services 238	Rentals-Surface	235								
Welding Services	Rentals-Subsric	236			\$ 131,000.00				\$	\$ 131,0
Welding Services	rucking/Forklift/Rig Mob	237								
Semingency 243	Welding Services	220		1						
Invantional Loop				-						
Welbook Fise Proposed				-						
Section Sect	:nvmmtl/Cisd Loop	244			\$ 441,000.00					
Company Comp						\$ 127,000.00			\$	
Sempleton OH	_ctn/Pits/Roads	305				\$ 16.000.00				
First Equipment 307										
Fig. Chemicals 308	Frac Fourinment	207								
Face Propagnat 309	Teo Equipment					3 1,404,000.00				\$ 1,464.0
Frac Proposal Transportation 310										
Frace Propopant Transportation \$ \$ \$ 442,000.00 \$ \$ \$ \$ \$ \$ \$ \$ \$						\$ 285,000.00			\$.	
Fuel Delivery & Services	Frac Proppant Transportation	310				\$ 442,000.00			Š -	\$ 442,0
Valer	Fuel Delivery & Services								e	
Frace Surface Renials						e pec 000.00				
Sentract Labor										
Sempany Sprvan 326									\$.	
Section Sect	Contract Labor					\$ 16,000,00			\$.	\$ 16,0
Section Sect	Company Sprvsn	326				\$ 16,000.00			S .	\$ 16,0
Artificial Lift Install 329 \$ 68,000 00 \$ 5 - \$ Perfet/Wellinstall \$ 570,000 00 \$ 5 - \$ - \$ Perfet/Wellinstall \$ 570,000 00 \$ 5 - \$ - \$ Perfet/Wellinstall \$ 16,000 00 \$ 5 - \$ - \$ Perfet/Wellinstall \$ 16,000 00 \$ 5 - \$ - \$ Perfet/Wellinstall \$ 16,000 00 \$ 5 - \$ - \$ Perfet/Wellinstall \$ 16,000 00 \$ 5 - \$ - \$ Perfet/Wellinstall \$ 16,000 00 \$ 5 - \$ - \$ Perfet/Wellinstall \$ 16,000 00 \$ 5 - \$ - \$ Perfet/Wellinstall \$ 16,000 00 \$ 5 - \$ - \$ Perfet/Wellinstall \$ 16,000 00 \$ 5 - \$ - \$ Perfet/Wellinstall \$ 16,000 00 \$ 5 - \$ - \$ Perfet/Wellinstall \$ 16,000 00 \$ 5 - \$ - \$ Perfet/Wellinstall \$ 16,000 00 \$ 5 - \$ - \$ Perfet/Wellinstall \$ 16,000 00 \$ 5 - \$ Perfet/Wellinstall \$ 16,000 00 \$ 1 - \$ Perfet/Wellins	Contract Serven					\$ 227,000,00				
PerfWireline Svc 331	Artificial Lift Install	320								
Flucking/Porkil/Piking Mob 337										
Water Disposal 339						\$ 570,000.00				
Section Sect	Trucking/Forklift/Rig Mob					\$ 16,000.00			5 -	
Section Sect	Water Disposal	339				\$ 61,000.00			\$.	\$ 61,0
Dyed Dises 345	Contingency	343								
Delibor 346	Dved Diesel	345								
DamagesRight of Way 351						3 493,000.00				
		346				\$ 510,000,00				\$ 510,0
Contract Labor	-Damages/Right of Way						\$ 2,000.00		\$	
Q-Contract Labor	-Location/Pits/Roads	353				li — —	\$ 43,000.00		\$	\$ 43,0
Q-Contract Labor	-Contract Labor	356					\$ 184,000,00		S	
Q-Water Disposal 387								\$ 42,000,00		
Sq. High Period Sq.	O Water Disposed							9 99,000.00	3	
Sample Costs Samp	Q-vvater Dispusar									
April Apri		391								\$ 21,0
Sample Costs Surface Casing Sample Sam	tal Intangible Costs		\$ -	\$	- \$ 4,377,000.00	\$ 6,599,000.00	\$ 229,000.00	\$ 267,000.00	\$ -	\$ 11,472,0
Q-Flowback Crews & Equip 392 \$ 122,000.00 \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	noible Costs									
Surface Casing 401	O Flouristok Conum & Foreign 1	202		r				100 555 55	r.	
Method Csg	A-1 INWOOD CIEWS & EQUID							3 122,000.00		
Production Casing/Liner				3						\$ 35,0
State Stat					\$ 323,000.00				\$ -	\$ 323,0
Mellhead Equip 405 \$ 108,000.00 \$ 79,000.00 \$ - \$	Production Casing/Liner	403			\$ 446,000.00					
Second	Wellhead Equip	405								
Vellnead Equip 505 Tanks \$10 Flowlines/Pipelines \$11 \$ 30,000.00 \$ 3.000.00 \$ 30,000.00 \$ 3.000.00 \$ 185,000.00 \$ 3.000.00 \$ 185,000.00 \$ 3.000.00 \$ 19,000.00 \$ 3.000.00 \$ 19,000.00 \$ 3.000.00 \$ 20,000.00 \$ 3.000.00 \$ 20,000.00 \$ 3.000.00 \$ 25,000.00 \$ 3.000.00 \$ 25,000.00 \$ 3.000.00 \$ 25,000.00 \$ 3.000.00 \$ 20,000.00 \$ 3.000.00 \$ 25,000.00 \$ 3.000.00 \$ 25,000.00 \$ 3.000.00 \$ 20,000.00 \$ 3.000.00 \$ 3.000.00 \$ 3.000.00 \$ 3.000.00 \$ 3.000.00 \$ 3.000.00 \$ 3.000.00 \$ 3.000.00 \$ 3.000.00 \$ 3.000.00 \$ 3.000.00 \$ 3.000.00 \$ 3.000.00 \$ 3.000.00 \$ 3.000.00 \$ 3.000.00 \$ 3.000.00 \$ 3.000.00 \$ 3.000.00					100,000.00	\$ 70,000.00				
Flanks \$ 10		504								
FlowIntes/Pipelines 511		505				3 43,000.00				\$ 43,0
Flowines/Pipelines 511							\$ 80,000.00			
Hir Trit/Seprif 512 \$ 185,000.00 \$ - \$	Flowlines/Pipelines	511					\$ 30,000,00			
Electrical System/Equipment 513		512								
ckrs/Anchors/Hgrs 514 \$ 98,000.00 \$ - \$ Couplings/Fittings/Valves 515 \$ 204,000.00 \$ - \$ Pumps-Surface 521 \$ 25,000.00 \$ - \$ Instrumentation/SCADA/POC 522 \$ 20,000.00 \$ - \$ Miscellaneous 523 \$ 20,000.00 \$ - \$ Meters/Lacts \$ 20,000.00 \$ - \$ Flares/Combusters/Emission 526 \$ 30,000.00 \$ - \$ sas Lift/Compression 527 \$ 38,000.00 \$ - \$ 2-Wellhead Equipment 531 \$ 43,000.00 \$ - \$ 3 at Tangible Costs \$ - \$ 912,000.00 \$ 738,000.00 \$ 165,000.00 \$ - \$	Flectrical System/Equipment	513								
Section Sect	ckrs/Anchors/Hors					e 00.000.00	115,000.00			
Pumps-Surface \$ 25,000,00 \$ - \$	Communication string is	314				9 98,000.00				
Pumps-Surface \$ 25,000,00 \$ - \$	Couplings/Fittings/Valves		7			// -/	\$ 204,000.00			
Instrumentation/SCADA/POC 522 \$ 20,000.00 \$ - \$ \$	Pumps-Surface						\$ 25,000.00		\$ -	\$ 25,0
Miscellaneous 523 \$ 20,000.00 \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$	Instrumentation/SCADA/POC	522					\$ 20,000 00		S	
Meters/Lacts \$ 25,000.00 \$ - \$	Miscellaneous	523								
Flares/Combusters/Emission 526 \$ 30,000.00 \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$		525						-		
Sas Lift/Compression 527 \$ 38,000.00 \$ - \$							25,000.00			
Q-Weilhead Equipment 531 \$ 43,000.00 \$ - \$ tal Tangible Costs \$ - \$ 912,000.00 \$ 258,000.00 \$ 738,000.00 \$ 165,000.00 \$ - \$		526					\$ 30,000.00		5 -	
Q-Weilhead Equipment 531 \$ 43,000.00 \$ - \$ tal Tangible Costs \$ - \$ 912,000.00 \$ 258,000.00 \$ 738,000.00 \$ 165,000.00 \$ - \$	Sas Lift/Compression	527				\$ 38,000.00			15 -	\$ 38,0
tal Tangible Costs \$ - \$ - \$ 912,000.00 \$ 258,000.00 \$ 738,000.00 \$ 165,000.00 \$ - \$	Q-Wellhead Equipment	531						\$ 43,000.00	S -	
			\$ -	\$	- \$ 912,000,00	\$ 258,000.00	\$ 738,000,00			
					1. 0.0,000.00		700,000.00	100,000.00	* "	2,010,0
al Gross Cost \$ - \$ - \$ 5,289,000.00 \$ 5,857,000.00 \$ 967,000.00 \$ 432,000.00 \$ - \$ 1.	I Gross Cost	STEEL STEEL	\$	\$	- \$ 5,289,000.00	\$ 6.857,000,00	\$ 967,000.00	\$ 432,000.00	5 -	\$ 13,545,0

Note: The above costs are estimates only. Actual costs will be billed as incurred.	
COG Operating LLC	
_By:	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.

Well Name ATTICUS STATE COM 702H
SHL 310 FSL 990 FEL OR UNIT P (Sec 36)
BHL 200 FNL 1350 FEL OR UNIT A (Sec 24)
Formation WOLFCAMP A
Legal 36-25S-27E
AFE Numbers

Cost Description ntangible Costs	Code	PreSpud (PS)	Pre-Set Casing(PC)	Drilling (DR)	Completions (C)	Tank Bity Constrctn(TB)	Pmpq Equip (PEQ) Revision	
-Lctn/Pits/Roads	205			\$ 136,000.00				I\$ - I	\$ 136,0
				3 136,000.00					\$ 136,0
-Drilling Overhead	206			\$ 13,000.00				\$.	\$ 13,0
-Daywork Contract	209			\$ 953,000.00				\$	\$ 953,0
Directional Drig Services	210			\$ 456,000.00				\$ -	\$ 456,0
Fuel & Power	211			\$ 203,000.00				\$.	\$ 203,0
Water	212			\$ 108,000.00				S .	\$ 108,0
Bits	213			\$ 151,000.00				· .	\$ 151,0
Mud & Chemicals	214			\$ 361,000.00				\$.	
-Cernent Surface	217			\$ 28,000.00				\$ -	\$ 28,0
Cement Intermed	218			\$ 107,000.00				\$ -	\$ 107,0
Prod-2nd Int Cmt	219			\$ 158,000,00				\$	\$ 158,0
Float Equipment & Centralizers	221 222			\$ 86,000.00				S -	\$ 86,0
Csg Crews & Equip	222			\$ 93,000.00				\$.	\$ 93,0
Contract Labor	225			\$ 10,000.00				\$	\$ 10,0
Company Sprvsn	226			\$ 73,000.00				\$.	\$ 73,
Confract Sprvsn	227			\$ 171,000.00				\$ -	\$ 171,
Tstg Csg/Tbg	228			\$ 58,000.00				\$	\$ 58,
Mud Logging Unit	229			\$ 65,000.00				5 -	\$ 65,0
Rentals-Surface	235			\$ 281,000.00				\$ -	\$ 281,0
Rentals-Subsric	236			\$ 131,000.00				\$.	
Trucking/Farklift/Rig Mob	237			\$ 201,000.00				\$ -	\$ 201,0
Welding Services	238			\$ 5,000.00				\$	\$ 5,0
Contingency	243			\$ 88,000.00				\$ -	\$ 88,0
Envmmtl/Clsd Loop	244			\$ 441,000.00				S -	\$ 441,
Wellbore Frac Prep	304				\$ 127,000.00			\$.	\$ 127,
Lctn/Pits/Roads	305				\$ 16,000.00			\$.	
	306				\$ 23,000.00				
Completion OH									\$ 23,0
Frac Equipment	307				\$ 1,464,000.00			\$	\$ 1,464,
Frac Chemicals	308				\$ 627,000.00			5 -	\$ 627,
Frac Proppant	309				\$ 285,000.00			S -	\$ 285,0
Frac Proppant Transportation	310				\$ 442,000.00			S -	\$ 442,
Fuel Delivery & Services	311				\$ 64,000,00				\$ 64,0
del Delivery & Services								\$.	
Vater	312				\$ 866,000.00			\$ -	\$ 866,
Frac Surface Rentals	315				\$ 480,000.00			\$	\$ 480
Contract Labor	325				\$ 16,000.00			\$.	\$ 16.0
Company Sprvsn	326				\$ 16,000.00			\$ -	\$ 16,
Contract Sprvsn	327				\$ 227,000.00			\$	\$ 227
Artificial Lift Install	329				\$ 68,000.00				\$ 68,
Perf/Wireline Svc	331				\$ 570,000,00			\$.	\$ 570,0
Trucking/Forklift/Rig Mob	337				\$ 16,000.00			\$ -	\$ 16,0
Water Disposal	339				\$ 61,000.00			\$ -	\$ 61,0
Contingency	343				\$ 226,000.00			\$	\$ 226,6
Dyed Diesel	345				\$ 495,000.00			\$.	\$ 495,0
Drillout	346				\$ 510,000.00				
					3 510,000.00			\$	
-Damages/Right of Way	351					\$ 2,000.00		\$ -	\$ 2,0
-Location/Pits/Roads	353					\$ 43,000.00		5 -	\$ 43,0
-Contract Labor	356					\$ 184,000.00		\$ -	\$ 184,0
Q-Contract Labor	374						\$ 43,000.00	\$ -	\$ 43,0
Q-Water Disposal	387						\$ 203,000.00		\$ 203.0
Q-HRZ Well Offset Frac	391						\$ 21,000.00		\$ 21,0
tal Intangible Costs		\$ -	\$	\$ 4,377,000.00	\$ 6,599,000.00	\$ 229,000.00	\$ 267,000.00	\$ -	\$ 11,472,0
						*			
igible Costs									
Q-Flowback Crews & Equip	392						\$ 122,000.00	S -	\$ 122,0
Surface Casino	401			\$ 35,000.00					\$ 35,0
ntermed Csg	402			\$ 323,000.00					
Seed to Seed t	402								\$ 323,
Production Casing/Liner	403			\$ 446,000.00					\$ 446,0
Wellhead Equip	405			\$ 108,000.00					\$ 108,
ubing	504				\$ 79,000.00			S	\$ 79,
Wellhead Equip	505				\$ 43,000.00			\$	\$ 43,
-Tanks	510					\$ 80,000.00		\$ -	\$ 80,0
	511								
-Flowlines/Pipelines						\$ 30,000.00		\$.	\$ 30,0
-Htr Trtr/Seprtr	512					\$ 185,000.00		S -	\$ 185,0
Electrical System/Equipment	513				be seemed as	\$ 119,000.00		S -	\$ 119,0
ckrs/Anchors/Hgrs	514				\$ 98,000.00			\$ -	\$ 98,0
Couplings/Fittings/Valves	515				-2,000.30	\$ 204,000.00			\$ 204,0
	521								
Pumps-Surface	021					\$ 25,000.00		S -	\$ 25,0
Instrumentation/SCADA/POC	522					\$ 20,000.00			\$ 20,
-Miscellaneous	523				<u> </u>	\$ 20,000.00		\$ -	\$ 20,0
-Meters/Lacts	525					\$ 25,000.00		S -	\$ 25,
ft (8) F	526					\$ 30,000.00		\$.	\$ 30,0
-t-lares/Combusters/I-mission 1	527				\$ 38,000.00	50,000.00		\$	\$ 38,0
-Flares/Combusters/Emission	ULI				20,000.00		\$ 43,000.00		\$ 43,0
Gas Lift/Compression	624								- A3.0
Gas Lift/Compression Q-Wellhead Equipment	531					mg			
Sas Lift/Compression	531	\$ -	s -	\$ 912,000.00	\$ 258,000.00	\$ 738,000.00	\$ 165,000.00	\$ -	\$ 2,073,0

Treat and the desired of the state of the desired of the state of	T-W-W-S
COG Operating LLC	
By:	Date Prepared:
Ma service	COG Operating LLC
We approve: % Working Interest	Ву:
Company: By:	
Printed Name: Title:	This AFE is only an estimate. By signing you agree to pay
Date:	your share of the actual costs incurred.

Prospect ATLAS 2527 (717054) State & County NEW MEXICO, EDDY Objective DRILL & COMPLETE Depth 19,500 TVD 9,200

Well Name ATTICUS STATE COM 703H
SHL 330 FSL 2618 FWL OR UNIT N(Sec 36)
BHL 200 FNL 2250 FEL OR UNIT B (Sec 24)
Formation WOLFCAMP
Legal 36-25S-27E
AFE Numbers

angible Costs Lctn/Pits/Roads Drilling Overhead Daywork Contract Directional Drig Services Tuel & Power Water Bits Mud & Chemicals Gement Surface Cement Intermed Prod-2nd Int Cmt Total Equipment & Centralizers Sag Crews & Equip Contract Labor Company Sprvsn Contract Sprvsn Istg Csg/Tog Mud Logging Unit Renlats-Subsrfc Trucking/Forkift/Vrig Mob Welding Services Contrigency Contract Contract Contract Contract Contract Sprvsn Contract Cont	205 206 209 210 211 211 212 213 214 217 218 219 221 222 225 226 227 228 229 235 236 237 238 243 243 243 243 244 304		\$ 136,000,00 \$ 13,000.00 \$ 953,000.00 \$ 456,000.00 \$ 203,000.00 \$ 108,000.00 \$ 151,000.00 \$ 361,000.00 \$ 28,000.00 \$ 167,000.00 \$ 170,000.00 \$ 193,000.00 \$ 193,000.00 \$ 171,000.00 \$ 73,000.00 \$ 71,000.00 \$ 171,000.00 \$ 171,000.00 \$ 28,000.00 \$ 201,000.00 \$ 201,000.00 \$ 201,000.00				S	\$ 136,00 \$ 13,00 \$ 953,00 \$ 456,00 \$ 108,00 \$ 151,00 \$ 361,00 \$ 168,00 \$ 171,00 \$ 73,00 \$ 73,00 \$ 771,00 \$ 786,00
ordiling Overhead Daywork Contract Directional Drig Services used & Power Vater Bits Mud & Chemicals Dement Surface Dement Surface Dement Intermed Trod-2nd Int Cmit Iotal Equipment & Centralizers Design Services Dement Surface Dement De	206 209 210 211 211 212 213 214 217 218 219 221 222 225 226 227 228 229 235 236 237 238 243 244 304		\$ 13,000.00 \$ 953,000.00 \$ 455,000.00 \$ 203,000.00 \$ 108,000.00 \$ 151,000.00 \$ 361,000.00 \$ 28,000.00 \$ 17,000.00 \$ 186,000.00 \$ 86,000.00 \$ 73,000.00 \$ 73,000.00 \$ 171,000.00 \$ 88,000.00 \$ 171,000.00 \$ 171,000.00 \$ 281,000.00 \$ 281,000.00 \$ 281,000.00 \$ 281,000.00				\$	\$ 953,00 \$ 456,00 \$ 203,00 \$ 108,00 \$ 151,00 \$ 361,00 \$ 107,00 \$ 107,00 \$ 86,00 \$ 93,00 \$ 10,00 \$ 73,00 \$ 77,00
laywork Contract incettional Drig Services uel & Power Valer	210 211 212 213 214 217 218 219 221 222 225 226 227 228 227 228 229 235 236 237 238 243 244 304		\$ 456,000.00 \$ 203,000.00 \$ 108,000.00 \$ 151,000.00 \$ 361,000.00 \$ 28,000.00 \$ 155,000.00 \$ 155,000.00 \$ 155,000.00 \$ 156,000.00 \$ 117,000.00 \$ 117,000.00 \$ 171,000.00 \$ 56,000.00 \$ 281,000.00 \$ 131,000.00 \$ 281,000.00 \$ 281,000.00 \$ 281,000.00 \$ 281,000.00				\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 456,00 \$ 203,00 \$ 108,00 \$ 151,00 \$ 361,00 \$ 28,00 \$ 107,00 \$ 158,00 \$ 93,00 \$ 73,00 \$ 77,00
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iel & Power later	211 212 213 214 217 218 219 221 221 222 225 226 227 228 229 235 229 235 236 237 238 243 244 304		\$ 203,000.00 \$ 108,000.00 \$ 151,000.00 \$ 361,000.00 \$ 28,000.00 \$ 107,000.00 \$ 156,000.00 \$ 86,000.00 \$ 93,000.00 \$ 73,000.00 \$ 171,000.00 \$ 58,000.00 \$ 65,000.00 \$ 65,000.00 \$ 281,000.00 \$ 281,000.00				\$ - 5 5 - 7	\$ 108,000 \$ 151,000 \$ 361,000 \$ 28,000 \$ 107,000 \$ 158,000 \$ 93,000 \$ 10,000 \$ 73,000 \$ 171,000
ater tis ud & Chemicals ument Surface ment Intermed od-2nd Int Cmt oat Equipment & Centralizers ag Crews & Equip ontract Labor ompany Sprvsn ontract Sprvsn old Cog/ing ud Logging Unit entals-Surface uncking/Forkiff/Rig Mob relation Services ontingency vymmtl/Cisd Loop elibore Frac Prep etn/Pis/Roads ompletion OH ac Equipment	212 213 214 217 218 219 221 222 225 225 226 227 228 229 235 229 235 237 238 243 241 304		\$ 108,000.00 \$ 151,000.00 \$ 361,000.00 \$ 28,000.00 \$ 107,000.00 \$ 158,000.00 \$ 86,000.00 \$ 193,000.00 \$ 171,000.00 \$ 73,000.00 \$ 171,000.00 \$ 58,000.00 \$ 281,000.00 \$ 281,000.00 \$ 281,000.00				\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 108,000 \$ 151,000 \$ 361,000 \$ 28,000 \$ 107,000 \$ 158,000 \$ 93,000 \$ 10,000 \$ 73,000 \$ 171,000
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ud & Chemicals ment Surface ment Intermed od-2nd Int Cmt od-2nd Intermet & Centralizers ag Crews & Equip ontract Sprvsa ontract Sprvsa od-2nd Intermet	214 217 218 219 221 222 225 226 227 228 229 235 236 237 238 243 244 304		\$ 361,000.00 \$ 28,000.00 \$ 107,000.00 \$ 158,000.00 \$ 86,000.00 \$ 93,000.00 \$ 17,000.00 \$ 171,000.00 \$ 58,000.00 \$ 58,000.00 \$ 65,000.00 \$ 281,000.00 \$ 281,000.00 \$ 201,000.00				\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 361,00 \$ 28,00 \$ 107,00 \$ 158,00 \$ 86,00 \$ 93,00 \$ 10,00 \$ 73,00 \$ 171,00
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ement Intermed od-2nd Int Cmt oat Equipment & Centralizers sg Crews & Equip ontract Labor ompany Sprvsn ontract Sprvsn del Cogging Unit entals-Surface entals-Surface entals-Subarfc ucking/Forklif/Rig Mob retding Services ontingency nymmt/Cisd Loop eleibore Frac Prep tnt/Pits/Roads ompletion OH ac Equipment	218 219 221 222 225 226 227 228 229 235 236 237 238 243 244 304		\$ 107,000.00 \$ 158,000.00 \$ 86,000.00 \$ 93,000.00 \$ 73,000.00 \$ 171,000.00 \$ 171,000.00 \$ 65,000.00 \$ 281,000.00 \$ 281,000.00 \$ 201,000.00				\$ - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	\$ 107,00 \$ 158,00 \$ 86,00 \$ 93,00 \$ 10,00 \$ 73,00 \$ 171,00
od-Znd Int Cmt oat Equipment & Centralizers ag Crews & Equip ontract Labor ompany Sprvsn ontract Sprvsn old Cog/Tbg ud Logging Unit ontals-Surface ontals-Surface ontals-Surface outsing/Forkliff/Rig Mob felding Services ontingency o	219 221 222 225 226 227 228 229 235 229 235 236 237 238 243 244 304		\$ 158,000.00 \$ 86,000.00 \$ 93,000.00 \$ 10,000.00 \$ 73,000.00 \$ 78,000.00 \$ 58,000.00 \$ 65,000.00 \$ 281,000.00 \$ 131,000.00 \$ 201,000.00				5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	\$ 158,00 \$ 86,00 \$ 93,00 \$ 10,00 \$ 73,00 \$ 171,00
loal Equipment & Centralizers sg Crews & Equip nortract Labor ompany Sprvsn ontract Sprvsn stg Csg/Tbg ud Logging Unit entals-Surface entals-Subsrfc rucking/Forklift/Rig Mob //elding Services ontingency nvmmtl/Clsd Loop //elibore Frac Prep tn/Pits/Roads ompletion OH rac Equipment	221 222 225 226 227 228 229 235 236 237 238 243 244 304		\$ 86,000.00 \$ 93,000.00 \$ 10,000.00 \$ 73,000.00 \$ 171,000.00 \$ 58,000.00 \$ 65,000.00 \$ 281,000.00 \$ 201,000.00				\$ - \$ - \$ - \$ - \$	\$ 86,00 \$ 93,00 \$ 10,00 \$ 73,00 \$ 171,00
sg Crews & Equip ontract Labor ompany Sprvsn ontract Sprvsn slq Csg/Tbg lud Logging Unit entals-Surface rentals-Subarfc nucking/Forklif/Rig Mob Velding Services ontingency nymmt/Cisd Loop Velibore Frae Prep ctn/Pis/Roads ompletion OH rac Equipment	222 225 226 227 228 229 235 236 237 238 243 243 244 304		\$ 93,000.00 \$ 10,000.00 \$ 73,000.00 \$ 171,000.00 \$ 58,000.00 \$ 65,000.00 \$ 281,000.00 \$ 131,000.00 \$ 201,000.00				\$ - \$ - \$ -	\$ 93,00 \$ 10,00 \$ 73,00 \$ 171,00
ontract Labor ompany Sprvsn ontract Sprvsn stg CSg/Tbg tud Logging Unit enlais-Surface entais-Subarfa rucking/Forklif/Rig Mob /elding Services onlingency normali/Clad Loop /ellibore Frac Prep tin/Pis/Roads ompletion OH rac Equipment	225 226 227 228 229 239 235 236 237 238 243 244 304		\$ 10,000.00 \$ 73,000.00 \$ 171,000.00 \$ 58,000.00 \$ 65,000.00 \$ 281,000.00 \$ 131,000.00 \$ 201,000.00				\$ - \$ - \$ -	\$ 10,00 \$ 73,00 \$ 171,00
ontract Labor ompany Sprvsn ontract Sprvsn stg CSg/Tbg tud Logging Unit enlais-Surface entais-Subarfa rucking/Forklif/Rig Mob /elding Services onlingency normali/Clad Loop /ellibore Frac Prep tin/Pis/Roads ompletion OH rac Equipment	225 226 227 228 229 239 235 236 237 238 243 244 304		\$ 73,000.00 \$ 171,000.00 \$ 58,000.00 \$ 65,000.00 \$ 281,000.00 \$ 131,000.00 \$ 201,000.00				\$ - \$ -	\$ 73,00 \$ 171,00
ompany Sprvsn ontract Sprvsn sig Csg/Tbg uid Logging Unit entals-Surface entals-Subarfa rucking/Forklif/Rig Mob //elding Services ontingency nvmmtl/Cisd Loop //elibore Frae tn/Pits/Roads ompletion OH rac Equipment	226 227 228 229 235 236 237 238 243 244 304		\$ 73,000.00 \$ 171,000.00 \$ 58,000.00 \$ 65,000.00 \$ 281,000.00 \$ 131,000.00 \$ 201,000.00				\$.	\$ 171.00
iontract Sprvsn sig Csg/T0g lud Logging Unit enlals-Surface tentals-Subsorf rucking/Forklift/Rig Mob Velding Services ontingency nvmmtl/Ctd Loop Velthore Frae Prep ctn/Pits/Roads ompletion OH rac Equipment	227 228 229 235 236 237 238 243 244 304		\$ 171,000.00 \$ 58,000.00 \$ 65,000.00 \$ 281,000.00 \$ 131,000.00 \$ 201,000.00					
stg Csg/Tog lud Logging Unit eentals-Surface tentals-Subarfo rucking/Forklift/Rig Mob Velding Services ontingency nymmtl/Clsd Loop Velibore Frac Prep ctn/Pis/Roads tompletion OH rac Equipment	226 229 235 236 237 238 243 244 304		\$ 58,000.00 \$ 65,000.00 \$ 281,000.00 \$ 131,000.00 \$ 201,000.00					
lud Loging Unit entals-Surface entals-Subarfc rucking/Forklif/Rig Mob velding Services ontingency nvmmtl/Cisd Loop velibore Frae ctn/Pis/Roads ompletion OH rac Equipment	229 235 236 237 238 243 244 304 305		\$ 65,000.00 \$ 281,000.00 \$ 131,000.00 \$ 201,000.00					
entals-Surface entals-Subsrfc pucking/Forkiff/Rig Mob Velding Services ontingency nymmt/Cist Loop Velibore Frac Prep stri/Pis/Roads ompletion OH rac Equipment	235 236 237 238 243 244 304 305		\$ 281,000.00 \$ 131,000.00 \$ 201,000.00				\$.	\$ 65,00
tentals-Subarfo rucking/Forklif/Rig Mob Velding Services contingency roymmtl/Clsd Loop Velibore Frac Prep ctn/Pis/Roads completion OH rac Equipment	236 237 238 243 244 304 305		\$ 131,000.00 \$ 201,000.00					
rucking/Forkit/I/Rig Mob Velding Services Joningency Invmmt/Ctsd Loop Velibore Frae Prep ctn/Phis/Roads Jompletion OH rac Equipment	237 238 243 244 304 305		\$ 201,000.00				\$.	
Velding Services onlingency onlingency velibore Frac Prep stripFisiRoads ompletion OH rac Equipment	238 243 244 304 305						\$.	\$ 131,00
ontingency nymmtl/Cisd Loop Velibore Frac Prep ctn/Pits/Roads ompletion OH rac Equipment	243 244 304 305						\$	\$ 201,00
ontingency nymmtl/Cisd Loop Velibore Frac Prep ctn/Pits/Roads ompletion OH rac Equipment	243 244 304 305		\$ 5,000.00				S -	\$ 5,00
nvmmtl/Cisd Loop Velibore Frac Prep ctn/Pits/Roads ompletion OH rac Equipment	244 304 305		\$ 88,000.00				S -	\$ 88,00
/elibore Frac Prep itn/Pits/Roads ompletion OH rac Equipment	304 305		\$ 441,000.00				\$.	\$ 441,00
tn/Pits/Roads ompletion OH rac Equipment	305			\$ 127,000.00			\$ -	\$ 127,00
ompletion OH rac Equipment				\$ 16,000.00		-	\$.	\$ 16,00
rac Equipment	2001						\$.	\$ 23,00
	306			\$ 23,000.00		_		
rac Chemicals	307			\$ 1,464,000.00			3 -	\$ 1,464,00
	308			\$ 627,000,00			\$	\$ 627,00
rac Proppant	309			\$ 285,000.00			\$	\$ 285,00
rac Proppant Transportation	310			\$ 442,000.00			\$.	\$ 442,00
uel Delivery & Services	311			\$ 64,000.00			\$	\$ 64,00
Vater	312			\$ 866,000.00			S -	\$ 866,00
rac Surface Rentals	315			\$ 480,000.00			\$.	\$ 480.00
Contract Labor	325			\$ 16,000.00			\$.	\$ 16,00
	326			\$ 16,000.00		-	\$ -	\$ 16,00
Company Sprvsn	326						S	\$ 227,00
Contract Sprvsn	327							
Artificial Lift Install	329			\$ 68,000.00			\$.	\$ 68,00
Perf/Wireline Svc	331			\$ 570,000.00			\$ -	\$ 570,00
rucking/Forklift/Rig Mob	337			\$ 16,000.00			\$	\$ 16,00
Water Disposal	339			\$ 61,000.00			\$	\$ 61,00
Contingency	343			\$ 226,000.00			S .	\$ 226,00
Oyed Diesel	345			\$ 495,000.00			\$ -	\$ 495,00
Onllout	346			\$ 510,000.00			\$.	\$ 510,00
				\$ 510,000.00	\$ 2,000.	0	\$.	\$ 2,00
Damages/Right of Way	351						\$ -	\$ 43,00
Location/Pits/Roads	353							
Contract Labor	356				\$ 184,000.0		\$ -	\$ 184,00
Q-Contract Labor	374					\$ 43,000.00		\$ 43,00
Q-Water Disposal	387					\$ 203,000.00		\$ 203,00
Q-HRZ Well Offset Frac	391					\$ 21,000.00	\$ -	\$ 21,00
al Intangible Costs	s -	\$.	\$ 4,377,000.00	\$ 6,599,000.00	\$ 229,000.	0 \$ 267,000.00	\$	\$ 11,472,00
in interngible Goots		X			100 mm100000		1-	
gible Costs								
	Sect				r	\$ 122,000.00	Té	\$ 122,00
Q-Flowback Crews & Equip	392					\$ 122,000.00		
urface Casing	401		\$ 35,000.00				\$	\$ 35,00
ntermed Csg	402		\$ 323,000.00				\$	\$ 323,00
roduction Casing/Liner	403		\$ 446,000.00				\$ -	\$ 446,00
/ellhead Equip	405		\$ 108,000.00				\$	\$ 108.00
ubing	504			\$ 79,000.00			S -	\$ 79,00
	505			\$ 43,000.00			S -	\$ 43,0
Vellhead Equip				45,000.00	\$ 80,000	in l	\$.	\$ 80,00
Tanks	510							
Flowlines/Pipelines	511				\$ 30,000			
Hlr Trlr/Seprir	512				\$ 185,000		\$	\$ 185,0
Electrical System/Equipment	513				\$ 119,000.	0	\$	\$ 119,0
krs/Anchors/Hgrs	514			\$ 98,000.00			\$ -	\$ 98,0
Couplings/Fittings/Valves	515				\$ 204,000.	00	\$ -	\$ 204,0
umps-Surface	521				\$ 25,000.		S	\$ 25,0
nstrumentation/SCADA/POC	522				\$ 20,000		S .	\$ 20,0
							9	
Miscellaneous	523				\$ 20,000.0		ř	\$ 20,0
Meters/Lacts	525				\$ 25,000.		\$ -	
lares/Combusters/Emission	526				\$ 30,000.	0	\$.	\$ 30,0
as Lift/Compression	527			\$ 38,000.00			\$	\$ 38,0
2-Wellhead Equipment	531					\$ 43,000.00	5 -	5 43,0
al Tangible Costs	77.	\$.	\$ 912,000.00	\$ 258,000.00	\$ 738,000.			\$ 2,073,0
i rangible Costs	\$ -		¥ 812,000.00	4 200,000.00	7 30,000,	100,000.00	0.46	* *,010,0
212122					Tu	-1-	1-	
I Gross Cost	\$ -	\$	\$ 5,289,000.00	\$ 6,857,000.00	\$ 967,000.	0 \$ 432,000.00	\$	\$ 13,545,0
The above costs are estimates	only. Actual costs will h	ne billed as incurred.						

COG Operating LLC			
By:			Date Prepared:
			COG Operating LLC
We approve: Working Interest			Ву:
Company: By:	ϵ	34	
Printed Name: Title: Date:			This AFE is only an estimate. By signing you agree to pay your share of the actual costs incurred.

Well Name ATTICUS STATE COM 704H
SHL 330 FSL 2588 FWL OR UNIT N (Sec 36)
BHL 200 FNL 2130 FWL OR UNIT C(Sec 24)
Formation WOLFCAMP A
Legal 36-25S-27E
AFE Numbers

Cost Description	Code	PreSpud (PS)	Pre-Set Casing(PC)	Drilling (DR)	Completions (C)	Tank Btty Constrctn(TB)	Pmpq Equip (PEQ	Revision	Tot
Intangible Costs			March State of the				*		
D-Lctn/Pits/Roads	205			\$ 136,000.00				\$ -	\$ 136,000.0
D-Drilling Overhead	206			\$ 13,000.00				\$ -	\$ 13,000.0
D-Daywork Contract	209			\$ 953,000.00				\$ -	\$ 953,000.0
D-Directional Drig Services	210			\$ 456,000.00				\$	\$ 456,000.0
D-Fuel & Power	211			\$ 203,000.00				\$ -	\$ 203,000.0
D-Water	212			\$ 108,000.00				\$.	\$ 108,000.0
D-Bits	213			\$ 151,000.00				\$.	\$ 151,000.0
D-Mud & Chemicals	214			\$ 361,000.00				S -	\$ 361,000.0
D-Cement Surface	217			\$ 28,000.00				\$ -	\$ 28,000.00
D-Cement Intermed	218			\$ 107,000.00				\$ -	\$ 107,000.00
D-Prod-2nd Int Cmt	219			\$ 158,000.00				\$	\$ 158,000.0
	210								
D-Float Equipment & Centralizers	221			\$ 86,000.00				\$.	\$ 86,000.0
D-Csg Crews & Equip	222			\$ 93,000.00				\$ -	\$ 93,000.0
D-Contract Labor	225			\$ 10,000.00				S -	\$ 10,000.0
D-Company Sprvsn	226		-	\$ 73,000,00				-	\$ 73,000.00
D-Contract Sprvsn	227			\$ 171,000.00				Š -	\$ 171,000.0
D-Tstg Csg/Tbg	228			\$ 58,000.00		<u> </u>		S -	\$ 58,000.0
D Mud Lagging Unit	229							\$	\$ 65,000.0
D-Mud Logging Unit									\$ 65,000.0
D-Rentals-Surface	235			\$ 281,000.00				\$ -	\$ 281,000.0
D-Rentals-Subsrfc	236			\$ 131,000.00				5 -	\$ 131,000.0
D-Trucking/Forklift/Rig Mob	237			\$ 201,000.00				\$	\$ 201,000.0
D-Welding Services	238			\$ 5,000.00				\$	\$ 5,000.0
D-Contingency	243			\$ 88,000.00				\$.	\$ 88,000.0
D-Environtl/Clsd Loop	244		 	\$ 441,000.00				\$	\$ 441,000.0
	304				\$ 127,000.00			\$.	\$ 127,000.00
C-Wellbore Frac Prep									
C-Lctn/Pits/Roads	305				\$ 16,000.00			S -	\$ 16,000.0
C-Completion OH	306				\$ 23,000.00			\$	\$ 23,000.0
C-Frac Equipment	307				\$ 1,464,000.00			\$ -	\$ 1,464,000.00
C-Frac Chemicals	308				\$ 627,000.00			\$ -	\$ 627,000.00
C-Frac Proppant	309				\$ 285,000.00			\$ -	\$ 285,000.00
C-Frac Proppant Transportation	310				\$ 442,000.00				\$ 442,000.00
C.C. Doppant Transportation	311				\$ 64,000.00				\$ 64,000.00
C-Fuel Delivery & Services									
C-Water	312				\$ 866,000.00				\$ 866,000.00
C-Frac Surface Rentals	315				\$ 480,000.00			S -	\$ 480,000.00
C-Contract Labor	325 326				\$ 16,000.00			\$	\$ 16,000.00
C-Company Sprvsn	326				\$ 16,000.00			\$ -	\$ 16,000.00
C-Contract Sprvsn	327		0		\$ 227,000.00			S -	\$ 227,000.00
C-Artificial Lift Install	329				\$ 68,000.00			\$	\$ 68,000.00
									\$ 570,000.00
C-Perf/Wireline Svc	331								
C-Trucking/Forklift/Rig Mob	337				\$ 16,000.00			\$ -	\$ 16,000.00
C-Water Disposal	339				\$ 61,000.00			\$ -	\$ 61,000.00
C-Contingency	343				\$ 226,000.00				\$ 226,000.00
C-Dyed Diesel	345				\$ 495,000.00			S	\$ 495,000.00
C-Drillout	346				\$ 510,000.00			\$ -	\$ 510,000.00
TB-Damages/Right of Way	351					\$ 2,000.00			\$ 2,000.00
TB-Location/Pits/Roads	353					\$ 43,000.00		\$.	\$ 43,000.00
						\$ 184,000.00		š -	\$ 184,000.00
	260					3 104,000.00			
TB-Contract Labor	356								6 40 000 00
TB-Contract Labor PEQ-Contract Labor	374						\$ 43,000.00		\$ 43,000.00
TB-Contract Labor PEQ-Contract Labor PEQ-Water Disposal	374 387						\$ 203,000.00	\$ -	\$ 203,000.00
TB-Contract Labor PEQ-Contract Labor	374						\$ 203,000.00 \$ 21,000.00	\$ -	
TB-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac	374 387	\$.	\$ -	\$ 4,377,000.00	\$ 6,599,000.00	\$ 229,000.00	\$ 203,000.00 \$ 21,000.00	\$ - \$ -	\$ 203,000.00 \$ 21,000.00
FB-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac	374 387	\$.	\$	\$ 4,377,000.00	\$ 6,599,000.00	\$ 229,000.00	\$ 203,000.00 \$ 21,000.00	\$ - \$ -	\$ 203,000.00 \$ 21,000.00
IB-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Total Intangible Costs Fangible Costs	374 387 391	\$.	s -	\$ 4,377,000.00	\$ 6,599,000.00	\$ 229,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$ - \$ -	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00
IB-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Total Intangible Costs Fangible Costs	374 387 391 392	•	s -		\$ 6,599,000.00	\$ 229,000.00	\$ 203,000.00 \$ 21,000.00	\$ - \$ -	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 122,000.00
B-Contract Labor EQ-Contract Labor EQ-Contract Labor EQ-HRZ Well Offset Frac rotal Intangible Costs rangible Costs PEQ-Flowback Crews & Equip	374 387 391	\$.	\$ -	\$ 4,377,000.00 \$ 35,000.00	\$ 6,599,000.00	\$ 229,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$ -	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 122,000.00 \$ 35,000.00
(B-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Total Intangible Costs Fangible Costs PEQ-Flowback Crews & Equip P-Surface Casing	374 387 391 392 401	\$	š -	\$ 35,000.00	\$ 6,599,000.00	\$ 229,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$ - \$ - \$ -	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 122,000.00 \$ 35,000.00
IB-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac rotal Intangible Costs Fangible Costs PEQ-Flowback Crews & Equip Peq-Surface Casing Intermed Csg	374 387 391 392 401 402	\$		\$ 35,000.00 \$ 323,000.00	\$ 6,599,000.00	\$ 229,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$ -	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 35,000.00 \$ 323,000.00
IB-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac rotal Intangible Costs rotal Interpretation PEQ-Flowback Crews & Equip D-Surface Casing Intermed Csg Production Casing/Liner	374 387 391 392 401 402 403	\$.		\$ 35,000.00 \$ 323,000.00 \$ 446,000.00	\$ 6,599,000.00	\$ 229,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$ - \$ - \$ - \$ - \$ - \$ -	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 35,000.00 \$ 323,000.00 \$ 446,000.00
IB-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Total Intangible Costs Fangible Costs PEQ-Flowback Crews & Equip D-Surface Casing D-Intermed Csg D-Production Casing/Liner D-Wellhead Equip	374 387 391 392 401 402 403 405	\$ -		\$ 35,000.00 \$ 323,000.00		\$ 229,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 203,000.0 \$ 21,000.0 \$ 11,472,000.0 \$ 122,000.0 \$ 35,000.0 \$ 323,000.0 \$ 446,000.0 \$ 108,000.0
IB-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Fotal Intangible Costs Fangible Costs PEQ-Flowback Crews & Equip D-Surface Casing Intermed Csg D-Production Casing/Liner D-Wellhead Equip T-Tubing	374 387 391 392 401 402 403 405 504	\$		\$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 108,000.00	S 79.000.00	\$ 229,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 122,000.00 \$ 35,000.00 \$ 323,000.00 \$ 108,000.00 \$ 79,000.00
IB-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Total Intangible Costs Fangible Costs PEQ-Flowback Crews & Equip D-Surface Casing D-Intermed Csg D-Production Casing/Liner D-Wellhead Equip C-Tubing C-Wellhead Equip	374 387 391 392 401 402 403 405 504 505	\$		\$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 108,000.00			\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 203,000.0 \$ 21,000.0 \$ 11,472,000.0 \$ 122,000.0 \$ 35,000.0 \$ 323,000.0 \$ 446,000.0 \$ 79,000.0 \$ 43,000.0
TB-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Total Intangible Costs Fangible Costs FEQ-Flowback Crews & Equip D-Surface Casing D-Intermed Csg D-Production Casing/Liner D-Wellhead Equip C-Tubing C-Wellhead Equip TB-Tanks	374 387 391 392 401 402 403 405 504 505 510	\$		\$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 108,000.00	S 79.000.00	\$ 80,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 122,000.00 \$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 79,000.00 \$ 43,000.00 \$ 8 80,000.00 \$ 8 80,000.00
IB-Contract Labor PEQ-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Cotal Intangible Costs Fangible Costs PEQ-Flowback Crews & Equip Posurface Casing D-intermed Csg D-Production Casing/Liner D-Wellhead Equip D-Tubing D-Wellhead Equip B-Tanks	374 387 391 392 401 402 403 405 504 505	\$		\$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 108,000.00	\$ 79,000.00 \$ 43,000.00	\$ 80,000.00 \$ 30,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 322,000.00 \$ 35,000.00 \$ 446,000.00 \$ 79,000.00 \$ 43,000.00 \$ 43,000.00 \$ 30,000.00 \$ 30,000.00 \$ 30,000.00
IB-Contract Labor PEQ-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Total Intangible Costs Tangible Costs PEQ-Flowback Crews & Equip D-Surface Casing Intermed Csg D-Production Casing/Liner D-Wellhead Equip D-Wellhead Equip D-Wellhead Equip B-Tanks B-Flowlines/Pipelines	374 387 391 392 401 402 403 405 504 504 510	\$ -		\$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 108,000.00	\$ 79,000.00 \$ 43,000.00	\$ 80,000.00 \$ 30,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 322,000.00 \$ 323,000.00 \$ 446,000.00 \$ 79,000.00 \$ 43,000.00 \$ 79,000.00 \$ 80,000.00 \$ 80,000.00
(B-Contract Labor PEQ-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Fotal Intangible Costs Fangible Costs PEQ-Flowback Crews & Equip Power Casing Production Casing/Liner Powellhead Equip Public Costs Powellhead Equip	374 387 391 392 401 402 403 405 504 505 511 511	\$		\$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 108,000.00	\$ 79,000.00 \$ 43,000.00	\$ 80,000.00 \$ 30,000.00 \$ 185,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 122,000.00 \$ 323,000.00 \$ 323,000.00 \$ 446,000.00 \$ 79,000.00 \$ 43,000.00 \$ 80,000.00 \$ 30,000.00 \$ 185,000.00 \$ 185,000.00
IB-Contract Labor PEQ-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Cotal Intangible Costs Fangible Costs PEQ-Flowback Crews & Equip Posurface Casing Pintermed Csg Production Casing/Liner Pwellhead Equip Publing Publing Particles Pintermed Equip Particles Particles Pintermed Equip Particles Parti	374 387 391 392 401 402 403 405 505 510 511 512 513	\$ -		\$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 108,000.00	\$ 79,000.00	\$ 80,000.00 \$ 30,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 122,000.00 \$ 35,000.00 \$ 323,000.00 \$ 108,000.00 \$ 79,000.00 \$ 43,000.00 \$ 88,000.00 \$ 880,000.00 \$ 30,000.00 \$ 185,000.00 \$ 119,000.00
IB-Contract Labor PEQ-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Total Intangible Costs PEQ-Flowback Crews & Equip Posurface Casing Penduction Casing/Liner Perduction Casing/Liner Wellhead Equip Powellhead Equip Powel	374 387 391 392 401 402 403 405 504 505 510 511 512 513 513	\$		\$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 108,000.00	\$ 79,000.00 \$ 43,000.00 \$ 98,000.00	\$ 80,000.00 \$ 30,000.00 \$ 185,000.00 \$ 119,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 322,000.00 \$ 35,000.00 \$ 323,000.00 \$ 108,000.00 \$ 79,000.00 \$ 80,000.00 \$ 80,000.00 \$ 185,000.00 \$ 185,000.00 \$ 185,000.00 \$ 185,000.00 \$ 185,000.00 \$ 185,000.00
IB-Courtact Labor PEQ-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Total Intangible Costs Fangible Costs PEQ-Flowback Crews & Equip D-Surface Casing D-Intermed Csg D-Production Casing/Liner D-Wellhead Equip P-Tubing D-Wellhead Equip PE-Tanks B-Flowines/Pipelines B-Hir Trtf/Septr B-Electrical System/Equipment D-Pckrs/Anchors/Hgrs B-Couplings/Fittings/Valves	374 387 391 392 401 402 403 405 504 505 511 512 513 513 514 515	\$		\$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 108,000.00	\$ 79,000.00 \$ 43,000.00 \$ 98,000.00	\$ 80,000.00 \$ 30,000.00 \$ 185,000.00 \$ 119,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 122,000.00 \$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 79,000.00 \$ 48,000.00 \$ 80,000.00 \$ 30,000.00 \$ 185,000.00 \$ 185,000.00 \$ 198,000.00 \$ 204,000.00 \$ 98,000.00 \$ 98,000.00 \$ 98,000.00 \$ 98,000.00 \$ 98,000.00 \$ 98,000.00 \$ 98,000.00
IB-Contract Labor PEQ-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Total Intangible Costs Total Intangible Costs PEQ-Flowback Crews & Equip D-Surface Casing O-Intermed Csg Production Casing/Liner D-Wellhead Equip B-Tanks B-Flowfines/Pipelines B-Hir Trtr/Septr B-Electrical System/Equipment Pekrs/Anchors/Hgrs B-Couplings/Filtings/Valves B-Couplings/Filtings/Valves B-Pumps-Surface	374 387 391 392 401 402 403 405 504 505 510 511 513 514 515 521	\$		\$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 108,000.00	\$ 79,000.00 \$ 43,000.00 \$ 98,000.00	\$ 80,000.00 \$ 30,000.00 \$ 185,000.00 \$ 119,000.00 \$ 204,000.00 \$ 25,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 322,000.00 \$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 79,000.00 \$ 80,000.00 \$ 80,000.00 \$ 80,000.00 \$ 98,000.00 \$ 185,000.00 \$ 185,000.00 \$ 204,000.00 \$ 25,000.00
IB-Contract Labor PEQ-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Total Intangible Costs PEQ-Flowback Crews & Equip Ped-Flowback Crews & Equip Ped-Flowback Crews & Equip Perduction Casing/Liner Perduction Casing/Liner Wellhead Equip P-Tubing Perluwfines/Pipelines P-Hir Trif/Seprt B-Electrical System/Equipment Pekrs/Anchors/Hgrs B-Couplings/Fittings/Valves P-Pumps-Surface P-Instrumentation/SCADA/POC	374 387 391 392 401 402 403 405 504 505 511 512 513 514 515 52 521	\$		\$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 108,000.00	\$ 79,000.00 \$ 43,000.00 \$ 98,000.00	\$ 80,000.00 \$ 30,000.00 \$ 185,000.00 \$ 119,000.00 \$ 204,000.00 \$ 25,000.00 \$ 20,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 122,000.00 \$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 79,000.00 \$ 79,000.00 \$ 80,000.00 \$ 185,000.00 \$ 185,000.00 \$ 185,000.00 \$ 185,000.00 \$ 204,000.00 \$ 204,000.00 \$ 204,000.00 \$ 204,000.00 \$ 204,000.00 \$ 204,000.00 \$ 204,000.00 \$ 204,000.00 \$ 204,000.00 \$ 204,000.00
IB-Contract Labor PEQ-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Total Intangible Costs PEQ-Flowback Crews & Equip PS-Usurface Casing Ped-Flowback Crews & Equip PS-Usurface Casing Production Casing/Liner PWellhead Equip P-Tubing PWellhead Equip B-Tanks B-Flowfines/Pipelines B-Hir Trif/Seprtr B-Electrical System/Equipment PS-Ckrs/Anchors/Hgrs B-Couplings/Fittings/Valves B-Pumps-Surface B-Instrumentation/SCADA/POC	374 387 391 392 401 402 403 405 504 505 511 512 513 514 515 52 521	\$		\$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 108,000.00	\$ 79,000.00 \$ 43,000.00 \$ 98,000.00	\$ 80,000.00 \$ 30,000.00 \$ 185,000.00 \$ 119,000.00 \$ 204,000.00 \$ 25,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 122,000.00 \$ 35,000.00 \$ 323,000.00 \$ 108,000.00 \$ 79,000.00 \$ 80,000.00 \$ 185,000.00 \$ 185,000.00 \$ 185,000.00 \$ 185,000.00 \$ 204,000.00 \$ 204,000.00
IB-Contract Labor PEQ-Contract Labor PEQ-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Total Intangible Costs PEQ-Flowback Crews & Equip Posurface Casing Production Casing/Liner Production C	374 387 391 392 401 402 403 405 504 510 511 512 513 515 521 522 523	\$		\$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 108,000.00	\$ 79,000.00 \$ 43,000.00 \$ 98,000.00	\$ 80,000.00 \$ 30,000.00 \$ 185,000.00 \$ 119,000.00 \$ 20,000.00 \$ 25,000.00 \$ 20,000.00 \$ 20,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 122,000.00 \$ 35,000.00 \$ 323,000.00 \$ 108,000.00 \$ 79,000.00 \$ 79,000.00 \$ 88,000.00 \$ 185,000.00 \$ 185,000.00 \$ 185,000.00 \$ 204,000.00 \$ 204,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00
IB-Contract Labor PEQ-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Total Intangible Costs PEQ-Flowback Crews & Equip D-Surface Casing D-Intermed Csg D-Production Casing/Liner D-Wellhead Equip D-Wellhead Equip B-Tanks B-Flowlines/Pipelines B-Hir Trtr/Seprt B-Couplings/Fittings/Valves B-Couplings/Fittings/Valves B-Dumps-Surface B-Instrumentation/SCADA/POC B-Miscollaneous B-Meters/Lacts	374 387 391 392 401 402 403 405 505 511 512 513 513 514 515 521 522 523	\$		\$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 108,000.00	\$ 79,000.00 \$ 43,000.00 \$ 98,000.00	\$ 80,000.00 \$ 30,000.00 \$ 185,000.00 \$ 119,000.00 \$ 204,000.00 \$ 25,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 122,000.00 \$ 323,000.00 \$ 323,000.00 \$ 446,000.00 \$ 79,000.00 \$ 80,000.00 \$ 80,000.00 \$ 185,000.00 \$ 185,000.00 \$ 204,000.00 \$ 225,000.00 \$ 225,000.00 \$ 225,000.00 \$ 200,000.00 \$ 200,000.00
(B-Contract Labor PEQ-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Total Intangible Costs PEQ-Flowback Crews & Equip PEQ-Flowback Crews & Equip Ped-Flowback Crews & Equip Perduction Casing/Liner Perducti	374 387 391 392 401 402 403 405 504 505 510 511 511 514 515 521 522 523 525 526	\$		\$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 108,000.00	\$ 79,000.00 \$ 43,000.00 \$ 98,000.00	\$ 80,000.00 \$ 30,000.00 \$ 185,000.00 \$ 119,000.00 \$ 20,000.00 \$ 25,000.00 \$ 20,000.00 \$ 20,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 122,000.00 \$ 32,000.00 \$ 323,000.00 \$ 446,000.00 \$ 79,000.00 \$ 79,000.00 \$ 80,000.00 \$ 185,000.00 \$ 185,000.00 \$ 185,000.00 \$ 204,000.00 \$ 25,000.00 \$ 25,000.00 \$ 25,000.00 \$ 30,000.00 \$ 30,000.00
IB-Contract Labor PEQ-Contract Labor PEQ-Contract Labor PEQ-Contract Disposal PEQ-HRZ Well Offset Frac Total Intangible Costs PEQ-Flowback Crews & Equip D-Surface Casing D-Intermed Csg D-Production Casing/Liner D-Wellhead Equip D-Wellhead Equip D-Tubing D-Wellhead Equip D-Wellhead Equip D-Wellhead Equip D-Young D-Wellhead Equip D-Young D-Wellhead Equip D-Young D-Wellhead Equip D-Young D-	374 387 391 392 401 402 403 405 505 510 511 512 513 514 515 55 521 522 523 525 525 526	\$		\$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 108,000.00	\$ 79,000.00 \$ 43,000.00 \$ 98,000.00	\$ 80,000.00 \$ 30,000.00 \$ 185,000.00 \$ 119,000.00 \$ 204,000.00 \$ 25,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 32,000.00 \$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 79,000.00 \$ 80,000.00 \$ 80,000.00 \$ 185,000.00 \$ 185,000.00 \$ 204,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00 \$ 30,000.00 \$ 30,000.00
IB-Contract Labor PEQ-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Total Intangible Costs PEQ-Flowback Crews & Equip Posurface Casing Posurface Casing Posurface Casing Posurface Casing Production Casing/Liner Production Casing/Liner Powellhead Equip Posurface Casing Powellhead Equip Posurface Casing Posurface Casing Posurface Casing Posurface Posurface Casing Posurface P	374 387 391 392 401 402 403 405 504 505 510 511 511 514 515 521 522 523 525 526			\$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 108,000.00	\$ 79,000.00 \$ 43,000.00 \$ 98,000.00	\$ 80,000.00 \$ 30,000.00 \$ 185,000.00 \$ 119,000.00 \$ 204,000.00 \$ 25,000.00 \$ 20,000.00 \$ 20,000.00 \$ 30,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00 \$ 122,000.00	\$	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 322,000.00 \$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 79,000.00 \$ 80,000.00 \$ 80,000.00 \$ 185,000.00 \$ 185,000.00 \$ 204,000.00 \$ 20,000.00 \$ 20,000.00 \$ 33,000.00 \$ 33,000.00 \$ 33,000.00 \$ 34,000.00 \$ 34,000.00
IB-Contract Labor PEQ-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Total Intangible Costs PEQ-Flowback Crews & Equip Posurface Casing Ped-Intermed Csg Production Casing/Liner Production Casing/Liner Production Casing/Liner Performed Equip Portion Casing Performed	374 387 391 392 401 402 403 405 505 510 511 512 513 514 515 55 521 522 523 525 525 526	\$ -		\$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 108,000.00	\$ 79,000.00 \$ 43,000.00 \$ 98,000.00	\$ 80,000.00 \$ 30,000.00 \$ 185,000.00 \$ 119,000.00 \$ 204,000.00 \$ 25,000.00 \$ 20,000.00 \$ 20,000.00 \$ 30,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00	\$	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 322,000.00 \$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 79,000.00 \$ 80,000.00 \$ 80,000.00 \$ 185,000.00 \$ 185,000.00 \$ 204,000.00 \$ 20,000.00 \$ 20,000.00 \$ 33,000.00 \$ 33,000.00 \$ 33,000.00 \$ 34,000.00 \$ 34,000.00
IB-Contract Labor PEQ-Contract Labor PEQ-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Total Intangible Costs PEQ-Flowback Crews & Equip D-Surface Casing D-Intermed Csg D-Production Casing/Liner D-Wellhead Equip S-Wellhead Equip B-Tanks B-Flowlines/Pipelines B-Hir Trtr/Septr B-Hir Trtr/Septr B-Couplings/Flitings/Valves B-Couplings/Flitings/Valves B-Couplings/Flitings/Valves B-Dumps-Surface B-Instrumentation/SCADA/POC B-Miscellaneous B-Hiers/Lacts B-Flares/Combusters/Emission C-Gas Lift/Compression PEQ-Wellhead Equipment Total Tangible Costs	374 387 391 392 401 402 403 405 505 510 511 512 513 514 515 55 521 522 523 525 525 526	\$	5	\$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 108,000.00 \$ 912,000.00	\$ 79,000.00 \$ 43,000.00 \$ 98,000.00 \$ 38,000.00 \$ 258,000.00	\$ 80,000.00 \$ 30,000.00 \$ 185,000.00 \$ 119,000.00 \$ 25,000.00 \$ 25,000.00 \$ 20,000.00 \$ 25,000.00 \$ 738,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00 \$ 122,000.00 \$ 43,000.00 \$ 165,000.00	\$	\$ 203,000.00 \$ 21,000.00 \$ 11,472,000.00 \$ 11,472,000.00 \$ 32,000.00 \$ 323,000.00 \$ 323,000.00 \$ 446,000.00 \$ 79,000.00 \$ 80,000.00 \$ 80,000.00 \$ 185,000.00 \$ 185,000.00 \$ 204,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00 \$ 330,000.00 \$ 330,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00
IB-Contract Labor PEQ-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Total Intangible Costs Tangible Costs	374 387 391 392 401 402 403 405 505 510 511 512 513 514 515 55 521 522 523 525 525 526	\$	5	\$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 108,000.00 \$ 912,000.00	\$ 79,000.00 \$ 43,000.00 \$ 98,000.00	\$ 80,000.00 \$ 30,000.00 \$ 185,000.00 \$ 119,000.00 \$ 25,000.00 \$ 25,000.00 \$ 20,000.00 \$ 25,000.00 \$ 738,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00 \$ 122,000.00 \$ 43,000.00 \$ 165,000.00	\$	\$ 203,000.00 \$ 11,472,000.00 \$ 11,472,000.00 \$ 122,000.00 \$ 323,000.00 \$ 323,000.00 \$ 446,000.00 \$ 79,000.00 \$ 80,000.00 \$ 80,000.00 \$ 185,000.00 \$ 186,000.00 \$ 204,000.00 \$ 20,000.00 \$ 20,000.00 \$ 20,000.00 \$ 33,000.00 \$ 33,000.00 \$ 34,000.00 \$ 34,000.00 \$ 34,000.00 \$ 34,000.00 \$ 34,000.00 \$ 34,000.00 \$ 34,000.00 \$ 34,000.00 \$ 34,000.00 \$ 34,000.00
IB-Contract Labor PEQ-Contract Labor PEQ-Contract Labor PEQ-Water Disposal PEQ-HRZ Well Offset Frac Total Intangible Costs PEQ-Flowback Crews & Equip Posurface Casing Ped-Intermed Csg Production Casing/Liner Production Casing/Liner Production Casing/Liner Performed Equip Portion Casing Performed	374 387 391 392 401 402 403 405 504 505 510 511 511 512 522 523 525 526 527	\$.	\$.	\$ 35,000.00 \$ 323,000.00 \$ 446,000.00 \$ 108,000.00 \$ 912,000.00	\$ 79,000.00 \$ 43,000.00 \$ 98,000.00 \$ 38,000.00 \$ 258,000.00	\$ 80,000.00 \$ 30,000.00 \$ 185,000.00 \$ 119,000.00 \$ 25,000.00 \$ 25,000.00 \$ 20,000.00 \$ 25,000.00 \$ 738,000.00	\$ 203,000.00 \$ 21,000.00 \$ 267,000.00 \$ 122,000.00 \$ 43,000.00 \$ 165,000.00	\$	\$ 203,000.0 \$ 21,000.0 \$ 11,472,000.0 \$ 122,000.0 \$ 35,000.0 \$ 35,000.0 \$ 323,000.0 \$ 446,000.0 \$ 79,000.0 \$ 30,000.0

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

Well Name ATTICUS STATE COM 705H
SHL 330 FSL 807 FWL OR UNIT M(Sec 36)
BHL 200 FNL 1230 FWL OR UNIT D (Sec 24)
Formation WOLFCAMP A
Legal 36-25S-27E
AFE Numbers

Cost Description	Code	PreSpud (PS)	Pre-Set Casing(PC)	Drilling (DR)	Completions (C)	Tank Btty Construtn(TB)	Pmpq Equip (PEQ)	Revision	Tot
ntangible Costs 0-Lctn/Pits/Roads	205	2.3		\$ 136,000.00				s -	\$ 136,000.0
D-Drilling Overhead	205			\$ 13,000.00					\$ 13,000.0
-Daywork Contract	209			\$ 953,000.00					\$ 953,000.0
)-Directional Drig Services	210			\$ 456,000.00					\$ 456,000.0
Fuel & Power	211			\$ 203,000.00					5 203,000.0
-Water	212			\$ 108,000.00					\$ 108,000.0
)-Bits	213			\$ 151,000.00					\$ 151,000.0
-Mud & Chemicals	214			\$ 361,000.00					\$ 361,000.0
-Cement Surface	217			\$ 28,000.00					\$ 28,000.0
-Cement Intermed	218			\$ 107,000.00					\$ 107,000.0
Prod-2nd Int Cmt	219			\$ 158,000,00				S -	\$ 158,000.0
-Float Equipment & Centralizers	221			\$ 86,000.00					\$ 86,000.0
-Csg Crews & Equip	222			\$ 93,000.00				\$ -	\$ 93,000.0
Contract Labor	225			\$ 10,000.00				\$ -	\$ 10,000.0
-Company Sprvan	226 227			\$ 73,000.00				\$	\$ 73,000.0
-Contract Sprvsn	227			\$ 171,000.00				S -	\$ 171,000.0
7-Tstg Csg/Tbg	228			\$ 58,000.00				\$ -	\$ 58,000.0
-Mud Logging Unil	229			\$ 65,000.00				\$ -	\$ 65,000.0
-Rentals-Surface	235			\$ 281,000.00				\$ -	\$ 281,000.0
-Rentals-Subsrfc	236			\$ 131,000.00				\$ -	\$ 131,000.0
-Trucking/Forklift/Rig Mob	237			\$ 201,000.00					\$ 201,000.0
-Welding Services	238			\$ 5,000.00					\$ 5,000.0
Contingency	243			\$ 88,000.00					\$ 88,000.0
-Envmmtl/Clsd Loop	244			\$ 441,000.00					S 441,000.0
-Wellbore Frac Prep	304				\$ 127,000.00				\$ 127,000.0
Lctn/Pits/Roads	305				\$ 18,000.00				\$ 16,000.0
-Completion OH	306				\$ 23,000.00				\$ 23,000.0
-Frac Equipment	307				\$ 1,464,000.00			\$ -	1,464,000.0
Frac Chemicals	308				\$ 627,000.00				\$ 627,000.0
-Frac Proppant	309				\$ 285,000.00				\$ 285,000.0
-Frac Proppant Transportation	310				\$ 442,000.00				\$ 442,000.0
-Fuel Delivery & Services	311				\$ 64,000.00				\$ 64,000.0
-Water	312				\$ 866,000.00				\$ 866,000.0
Frac Surface Rentals	315				\$ 480,000.00				\$ 480,000.0
-Contract Labor	325				\$ 16,000.00				\$ 16,000.0
-Company Sprvsn	326				\$ 16,000.00				\$ 16,000.0
-Contract Sprvan	327				\$ 227,000.00	-			\$ 227,000.D
-Artificial Lift Install	329				\$ 68,000.00				\$ 68,000.0
-Perf/Wireline Svc	331				\$ 570,000.00				\$ 570,000.0
-Trucking/Forklift/Rig Mob	337				\$ 16,000.00				\$ 16,000.0
-Water Disposal	339				\$ 61,000.00			\$.	
-Contingency	343				\$ 226,000.00				\$ 226,000.0
-Dyed Diesel	345				\$ 495,000.00			\$	
-Drillout	346				\$ 510,000.00				\$ 510,000.0
B-Damages/Right of Way	351					\$ 2,000.00			\$ 2,000.0
B-Location/Pits/Roads	353					\$ 43,000.00			\$ 43,000.0
B-Contract Labor	356					\$ 184,000.00		S -	
EQ-Contract Labor	374					2 15.11555125	\$ 43,000.00	\$ -	\$ 43,000.0
EQ-Water Disposal	387						\$ 203,000.00		\$ 203,000.0
EQ-HRZ Well Offset Frac	391						\$ 21,000.00		\$ 21,000.0
otal Intangible Costs		s -	5 .	\$ 4,377,000.00	\$ 6,599,000.00				\$ 11,472,000.0
				• 4,577,000.00	• 0,000,000,00	* *************************************	S	× × × × ×	1000-000
angible Costs								r	
EQ-Flowback Crews & Equip	392			E 25 202 22				\$.	
-Surface Casing	401			\$ 35,000.00				5 -	\$ 35,000.0 \$ 323,000.0
Intermed Csg	402			\$ 323,000.00					
Production Casing/Liner	403			\$ 446,000.00					
-Wellhead Equip	405			\$ 108,000.00	70.000.00				\$ 108,000.0
-Tubing	504				\$ 79,000.00			\$ -	
-Wellhead Equip	505				\$ 43,000.00	6 00.000.00			\$ 43,000.0
B-Tanks	510					\$ 80,000.00		\$	
3-Flowlines/Pipelines	511					\$ 30,000.00		\$ -	
3-Htr Trtr/Seprtr	512					\$ 185,000.00		\$ -	
3-Electrical System/Equipment	513					\$ 119,000.00		\$ -	
Pckrs/Anchors/Hgrs	514				\$ 98,000.00				\$ 98,000.0
3-Couplings/Fittings/Valves	515					\$ 204,000.00			\$ 204,000.0
B-Pumps-Surface	521					\$ 25,000.00		\$ -	
3-Instrumentation/SCADA/POC	522					\$ 20,000.00		\$ -	
3-Miscellaneous	523					\$ 20,000.00		\$	
B-Meters/Lacts	525					\$ 25,000.00		\$ -	
B-Flares/Combusters/Emission	526					\$ 30,000.00			\$ 30,000.0
Gas Lift/Compression	527				\$ 38,000.00			\$ -	
EQ-Wellhead Equipment	531						\$ 43,000.00	\$ -	\$ 43,000.0
otal Tangible Costs		s -	\$	\$ 912,000.00	\$ 258,000.00	\$ 738,000.00	\$ 165,000.00	\$.	\$ 2,073,000.0
otal Gross Cost		\$.	\$		\$ 6,857,000.00	\$ 967,000.00	\$ 432,000.00	\$	\$ 13,545,000.0

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

Well Name ATTICUS STATE COM 706H
SHL 330 FSL 777 FWL OR UNIT M(Sec 36)
BHL 200 FNL 330 FWL OR UNIT D (Sec 24)
Formation WOLFCAMP A
Legal 36-25S-27E
AFE Numbers

Cost Description	Code	PreSpud (PS)	Pre-Set Casing(PC)	Drilling (DR)	Completions (C)	Tank Btty Constrctn(TB)	Pmpq Equip (PEQ)	Revision	т
ntangible Costs	205			S 136,000.00 I				\$ - \$	136,000
>-Lctn/Pits/Roads	205							\$ 5	13,000
D-Drilling Overhead	206			\$ 13,000.00		,			
D-Daywork Contract	209			\$ 953,000.00				s - s	953,000
-Directional Drlg Services	210			\$ 456,000.00				s - s	456,000
)-Fuel & Power	211			\$ 203,000.00				\$ - \$	203,000
)-Water	212			\$ 108,000.00				S - S	108,000
O-Bits	213			\$ 151,000.00				S - S	151,000
0-Mud & Chemicals	214			\$ 361,000.00				S - S	361,000
O-Cement Surface	217			\$ 28,000.00		-		5 - 5	28,000
	217							3 5	107,000
-Cement Intermed	218								450,000
-Prod-2nd Int Cml	219			\$ 158,000.00					158,000
-Float Equipment & Centralizers	221			\$ 86,000.00				\$ - 5	86,000
-Csg Crews & Equip	222			\$ 93,000.00				S - S	93,000
-Contract Labor	225			\$ 10,000.00				\$ - \$	10,000
Company Sprvsn	226			\$ 73,000.00				8 - 5	73,000
-Contract Sprvsn	227			\$ 171,000.00				3 - 5	171,000
-Contract Sprvsn								5 - 5	58,000
Tstg Csg/Tbg	228			\$ 58,000.00					
-Mud Logging Unit	229			\$ 65,000.00				\$ - \$	65,000
-Rentals-Surface	235			\$ 281,000.00				S - \$	281,000
-Rentals-Subsrfc	236			\$ 131,000.00				S - S	131,000
Trucking/Forklift/Rig Mob	237			\$ 201,000.00				S - S	201,000
-Welding Services	238			\$ 5,000,00		-		8 - 5	5,000
								3 - \$	88,000
Contingency	243			\$ 88,000.00		-			441,000
Envmmtl/Clsd Loop	244			\$ 441,000.00					
-Wellbore Frac Prep	304				\$ 127,000.00			5 - 3	127,000
-Lctn/Pits/Roads	305				\$ 16,000.00			5 - 5	16,000
-Completion OH	306				\$ 23,000.00			\$ - \$	23,000
-Frac Equipment	307				5 1,464,000.00			S - S	1,464,000
-Frac Chemicals	308				\$ 627,000.00	3		S - S	627,000
	309				\$ 285,000.00			3 - 3	285,000
-Frac Proppant	309				5 200,000.00				442,000
-Frac Proppant Transportation	310				\$ 442,000.00			\$ - S	
-Fuel Delivery & Services	311				\$ 64,000.00			S - S	64,000
Water	312				\$ 866,000.00			S - S	866,000
Frac Surface Rentals	315				\$ 480,000.00			\$ - \$	480,000
Contract Labor	325				\$ 16,000.00			\$ - \$	16,000
-Company Sprvsn	326				\$ 16,000.00			3 - 3	16,000
Company Spivan	327				\$ 227,000.00			5 . 5	227,000
-Contract Sprvsn								\$ - \$	68,000
-Artificial Lift Install	329				\$ 68,000.00				
-Perf/Wireline Svc	331				\$ 570,000.00			S - S	570,000
-Trucking/Forklift/Rig Mob	337				\$ 16,000.00			S - S	16,000
-Waler Disposal	339				\$ 61,000.00			\$ - 5	61,000
-Contingency	343				\$ 226,000.00			5 - 5	226,000
-Dyed Diesel	345				\$ 495,000.00			\$ - \$	495,000
-Dyed Diesel	346				\$ 510,000.00			\$	510,000
-Drillout	340				a 210,000.00	\$ 2,000.00		5 - 5	2,000
B-Damages/Right of Way	351								
B-Location/Pits/Roads	353					\$ 43,000.00		S - S	43,000
B-Contract Labor	356					S 184,000.00		5 - \$	184,000
EQ-Contract Labor	374						\$ 43,000.00	S - S	43,000
EQ-Water Disposal	387						\$ 203,000.00	\$ - \$	203,000
EQ-HRZ Well Offset Frac	391						\$ 21,000.00		21,000
	301	s -		\$ 4,377,000.00	\$ 6,599,000.00	\$ 229,000.00		\$ - \$	11,472,000
otal Intangible Costs		•	\$ -	\$ 4,377,000.00	\$ 6,033,000.00	\$ 225,000.00	207,000.00		11,412,000
ingible Costs							\$ 122,000.00	S - IS	122,000
Q-Flowback Crews & Equip	392						\$ 122,000.00		35,000
Surface Casing	401			\$ 35,000.00				s - s	35,000
Intermed Csg	402			\$ 323,000.00				\$ - 8	323,000
Production Casing/Liner	403			\$ 446,000.00				5 - 5	446,000
-Wellhead Equip	405			\$ 108,000.00				s - s	108,000
-Tubing	504				\$ 79,000.00			S - S	79,000
-Wellhead Equip	505				\$ 43,000.00			5 - 5	43,000
-vvoimeau Equip					40,000.00	\$ 80,000.00		\$ - \$	80,000
B-Tanks	510								
B-Flowlines/Pipelines	511					\$ 30,000.00			30,000
B-Htr Trtr/Seprtr	512					\$ 185,000.00		5 - \$	185,000
8-Electrical System/Equipment	513					\$ 119,000.00		\$ - \$	119,000
Pckrs/Anchors/Hgrs	514				\$ 98,000.00			S - S	98,000
3-Couplings/Fittings/Valves	515					\$ 204,000.00		S - S	204,00
Dumps Curings valves	521					\$ 25,000.00		\$ - \$	25,000
3-Pumps-Surface									20,000
B-Instrumentation/SCADA/POC	522								
B-Miscellaneous	523					\$ 20,000.00		s - s	20,000
B-Meters/Lacts	525					\$ 25,000.00		S - S	25,000
B-Flares/Combusters/Emission	526					\$ 30,000.00		\$ - 5	30,000
-Gas Lift/Compression	527				\$ 38,000.00			S - S	38,000
EQ-Wellhead Equipment	531						\$ 43,000.00	5 - 5	43,000
otal Tangible Costs	- 551	s -	\$ -	\$ 912,000.00	\$ 258,000.00	\$ 738,000.00	\$ 165,000.00	\$ - \$	2,073,000
ital Gross Cost		5 -	\$ -	\$ 5,289,000,00	\$ 6,857,000.00	\$ 967,000.00	\$ 432,000.00	s - S	13,545,00

Note: The above costs are estimates only. Actual costs will be billed as incurred.	
COG Operating LLC	
Ву:	Date Prepared:
	COG Operating LLC
We approve: % Working Interest	By:
By:	
Printed Name: Title: Date:	This AFE is only an estimate. By signing you agree to pay your share of the actual costs incurred.

2/17/20

Well proposals & AFEs for 701H – 706H mailed to Chevron, Devon and Read & Stevens (Attached)

W2 spacing unit JOA mailed to Chevron, Devon, and Read & Stevens (Attached) E2 spacing unit JOA mailed to Chevron, Devon, and Read & Stevens (Attached)

W2 spacing unit State communitization agreement & Designation of pooled unit mailed to Chevron, Devon and Read & Stevens (Attached)
E2 spacing unit State communitization agreement & Designation of pooled unit mailed to Chevron, Devon and Read & Stevens (Attached)

2/25/20

Informational letter revising the MD mailed to Chevron, Devon and Read & Stevens (Attached)

Santa Fe, New Mexico
Exhibit No. C5

Submitted by: COG OPERATING LLC
Hearing Date: August 20, 2020
Case Nos. 21259-21260

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 NOS. 21259-21260

AFFIDAVIT OF CHESNEY GILLELAND, GEOLOGIST, IN SUPPORT OF CASE NOS. 21259 & 21260

Chesney Gilleland, of lawful age and being first duly sworn, declares as follows:

- 1. My name is Chesney Gilleland. I work for COG Operating, LLC ("COG") as a Geologist.
- 2. 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 areas.
 - 3. In Case Nos. 21259 and 21260, COG is targeting the Wolfcamp formation.
- 4. **COG Exhibit D-1** is a project location map outlining Sections 24, 25, and 36 comprising the proposed spacing units in **Case Nos. 21259** and **21260**.
- 5. **COG Exhibit D-2** is a subsea structure map off the top of the Wolfcamp Structure. Within Sections 24, 25, and 36, there are pink lines on the map that reflect the path of the proposed wellbores for the **Atticus State Com #701H**, **#702H**, **#703H**, **#704H**, **#705H**, and **#706H Wells**. The contour interval is 50 feet. The structure map shows that the Wolfcamp Structure is dipping gently to the east. The structure appears consistent in this section. I do not observe any faulting, pinchouts, or other geologic hazards to developing a horizontal well.
- 6. **COG Exhibit D-3** is a map that shows the location of the three wells that were used to construct a cross-section from A to A'. I consider these wells to be representative of the geology of the area.

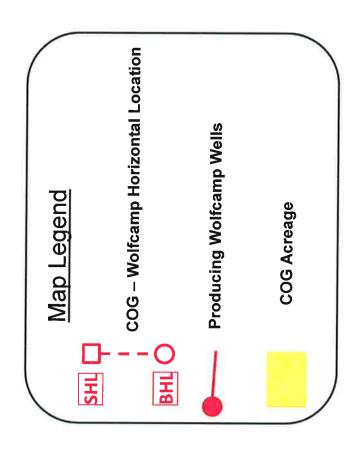
Case Nos. 21259-21260

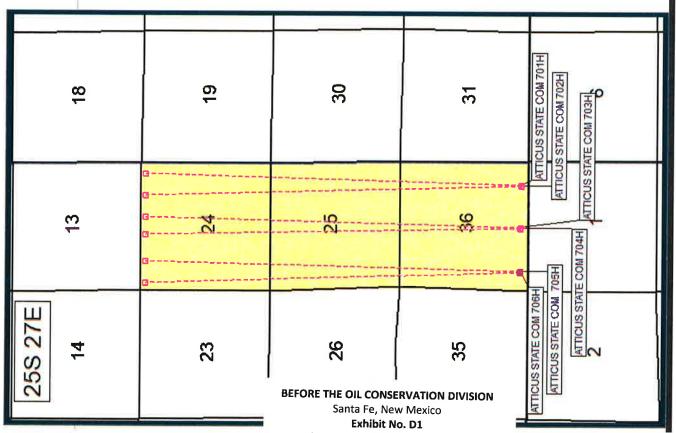
- 7. **COG Exhibit D-4** is a stratigraphic cross section for the three representative wells from A to A'. The exhibit shows logs for gamma ray and resistivity for the wells. The proposed target interval in the Upper Wolfcamp for the Atticus State Com #701H, #702H, #703H, #704H, #705H, and #706H Wells is labeled and depicted with a green bracket. The logs in the cross-section demonstrate that the targeted interval within the Wolfacmp formation is consistent in thickness, across the entire spacing unit.
- 8. Based on my geologic study of the areas, I have not identified any geologic impediments to drilling horizontal wells in the area.
- 9. In my opinion, each tract comprising the proposed spacing units will be productive and contribute more-or-less equally to production from the wellbores.
- 10. 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.
- 11. In my opinion, the granting of COG's applications in these cases is in the best interest of conservation, the prevention of waste, and protection of correlative rights.
- 12. **COG Exhibits D-1 through D-4** were either prepared or compiled from COG's business records and are true and accurate to the best of my knowledge.

FURTHER AFFIANT SAYETH NOT.

Chesney Gilleland

STATE OF TEXAS)
COUNTY OF MIDLAND)
SUBSCRIBED and SWOR	RN to before me this 17th day of August 2020 by
Chesney Gilleland.	J
	NOTARY PUBLIC
My Commission Expires:	
Nov. 12, 2023	OFFICIAL SEAL Carla Garcia NOTARY PUBLIC-STATE OF NEW MEXICO My Commission Expires: Nov-12,2023

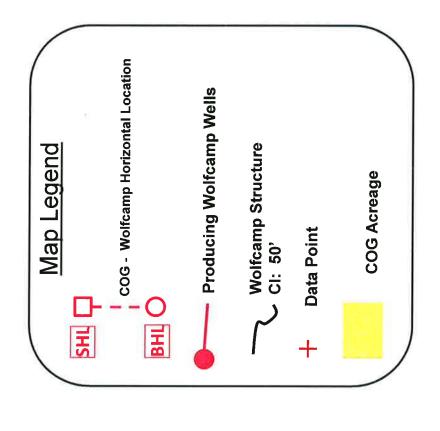


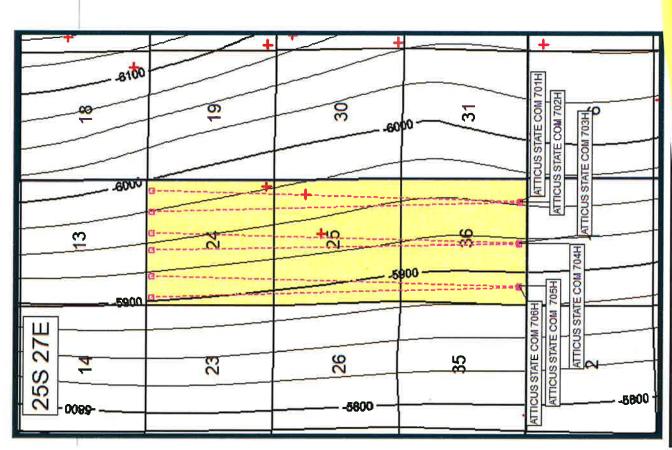




Submitted by: **COG OPERATING LLC**Hearing Date: August 20, 2020
Case Nos. 21259-21260

Wolfcamp Structure Map Wolfcamp Pool

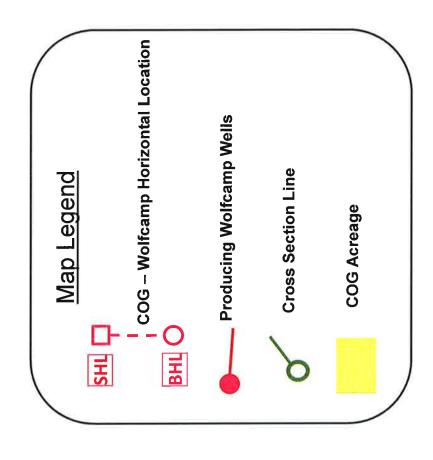


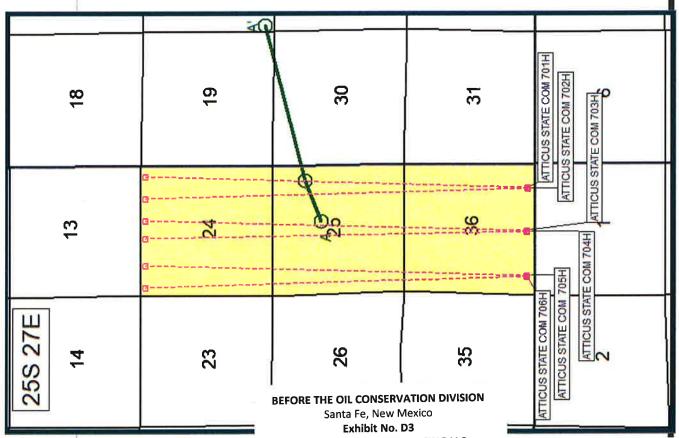


BEFORE THE OIL CONSERVATION DIVISION Submitted by: COG OPERATING LLC Hearing Date: August 20, 2020 Case Nos. 21259-21260 Santa Fe, New Mexico Exhibit No. D2



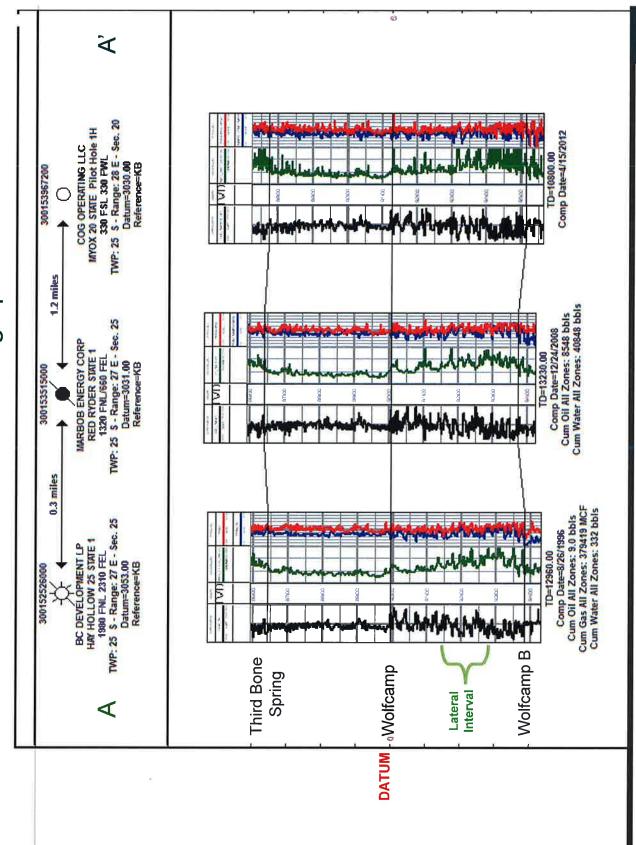






CONCHO

Submitted by: COG OPERATING LLC Hearing Date: August 20, 2020 Case Nos. 21259-21260



BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico
Exhibit No. D4

Submitted by: **COG OPERATING LLC**Hearing Date: August 20, 2020

Case Nos. 21259-21260

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 NOS. 21259-21260

AFFIDAVIT

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

Kaitlyn A. Luck, attorney in fact and authorized representative of COG Operating LLC, the Applicant herein, being first duly sworn, upon oath, states that the above-referenced Applications have been provided under the notice letters and proof of receipts attached hereto.

Kaitlyn A. Luck

SUBSCRIBED AND SWORN to before me this 18th day of August, 2020 by Kaitlyn A. Luck.

My Commission Expires:

Nov. 12, 2023

OFFICIAL SEAL
Carla Garcia
NOTARY PUBLIC - STATE OF NEW MEXICO
My Commission Expires: Nov. 17, 2023



Adam G. Rankin Phone (505) 988-4421 Fax (505) 983-6043 agrankin@hollandhart.com

July 2, 2020

VIA CERTIFIED MAIL CERTIFIED RECEIPT REQUESTED

TO: ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS

Re:

Application of COG Operating, LLC for Compulsory Pooling, Eddy County,

New Mexico.

Atticus State Com #701H, #702H, #703H wells

Ladies & Gentlemen:

This letter is to advise you that COG Operating LLC has filed the enclosed application with the New Mexico Oil Conservation Division. A hearing has been requested before a Division Examiner on July 23, 2020, and the status of the hearing can be monitored through the Division's website at http://www.emnrd.state.nm.us/ocd/. 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.

During the COVID-19 Pubic Health Emergency, state buildings are closed to the public and hearings will be conducted remotely. The hearing will be conducted on July 23, 2020 beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted on the OCD Hearings website: http://www.emnrd.state.nm.us/OCD/announcements.html.

Parties appearing in cases are required by Division Rule 19.15.4.13.B to file a Pre-hearing Statement four business days in advance of a scheduled hearing. This statement must be filed at the Division's Santa Fe office at the above specified address and should include: the names of the parties and their attorneys; a concise statement of the case; the names of all witnesses the party will call to testify at the hearing; the approximate time the party will need to present its case; and identification of any procedural matters that are to be resolved prior to the hearing.

If you have any questions about this matter, please contact Travis Macha, at (432) 683-7443 or TMacha@concho.com.

Sincerely,

Adam G. Rankin

ATTORNEY FOR COG OPERATING LLC



Adam G. Rankin Phone (505) 988-4421 Fax (505) 983-6043 agrankin@hollandhart.com

July 2, 2020

VIA CERTIFIED MAIL CERTIFIED RECEIPT REQUESTED

TO: ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS

Re:

Application of COG Operating, LLC for Compulsory Pooling, Eddy County,

New Mexico.

Atticus State Com #704H, #705H, #706H wells

Ladies & Gentlemen:

This letter is to advise you that COG Operating LLC has filed the enclosed application with the New Mexico Oil Conservation Division. A hearing has been requested before a Division Examiner on July 23, 2020, and the status of the hearing can be monitored through the Division's website at http://www.emnrd.state.nm.us/ocd/. 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.

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If you have any questions about this matter, please contact Travis Macha, at (432) 683-7443 or TMacha@concho.com.

Sincerely,

Adam G. Rankin

ATTORNEY FOR COG OPERATING LLC

COG - Atticus 701H-706H Case Nos. 21259-21260 Postal Delivery Report

TrackingNo	ToName	DeliveryAddress	City	State Zip	Zip	USPS_Status
898765062249333	9414810898765062249333 : Devon Energy Production Company, LP Attn Land Department	:333 W Sheridan Ave	Oklahoma City	ŏ	73102-5010	Your item departed our OKLAHOMA CITY OK DISTRIBUTION CENTER destination facility on July 6, 2020 at 12:40 am. The item is currently in 333 W Sheridan Ave Oklahoma City OK 73102-5010 'transit to the destination.
898765062249340	9414810898765062249340 · Chevron U.S.A. Inc. Attn Kristen Hunter	6301 Deauville	Midland	×	Your item de facility on Ju 79706-2964 destination.	Your item departed our MIDLAND TX DISTRIBUTION CENTER destination facility on July 6, 2020 at 3:38 am. The item is currently in transit to the destination.
898765062249357	9414810898765062249357 Read & Stevens, Inc. Attn Land Department	PO Box 1518	Roswell	Σ	Your item do facility on Ju '88202-1518 destination.	Your item departed our LUBBOCK TX DISTRIBUTION CENTER destination facility on July 5, 2020 at 3:48 pm. The item is currently in transit to the destination.



Affidavit of Publication Ad # 0004166944 This is not an invoice

HOLLAND & HART POBOX 2208

SANTA FE, NM 87504

I, a legal clerk of the Carlsbad Current Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

04/28/2020

Legal Clerk

Subscribed and sworn before me this April 28, 2020:

WI, County of Brown

My commission expires

NANCY HEYRMAN Notary Public State of Wisconsin

Ad # 0004166944 PO#: Atticus State # of Affidavits1

This is not an invoice

Santa Fe, New Mexico Exhibit No. F

Submitted by: COG OPERATING LLC Hearing Date: August 20, 2020

Case Nos. 21259-21260

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

The State of New Mexico, Energy Minerals and Natural Resources Department, Oil Conservation Division ("Division") hereby gives notice that the Division will hold public hearings before a hearing examiner on the following case. During the COVID-19 Pubic Health Emergency, state buildings are closed to the public and Division hearings will be conducted remotely. The remote electronic public hearing will be conducted remotely. The hearing will be conducted on Thursday, May 14, 2020, beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted below. The docket may be viewed at http://www.emrrd.state.nm.us/OCD/hearings.html or obtained from Marlene Salvidrez, at Marlene.Salvidrez@state.nm.us. Documents filed in the case may be viewed at http://ocdimage.emrrd.state.nm.us/imaging/CaseFileCriteria.aspx. If you are an individual with a disability who needs a reader, amplifier, qualified sign language interpreter, or other form of auxiliary aid or service to attend or participate in a hearing, contact Marlene Salvidrez at Marlene.Salvidrez@state.nm.us, or the New Mexico Relay Network at 1-800-659-1779, no later than Monday, May 4, 2020.

Persons may view and participate in the hearings through the following link and as indicated below:

Meeting number: 968 329 152 Password: YQe6KZBe3n6 https://nmemnrd.webex.com/nmemnrd/j.php?MTID=mb3dd b90721ccc17207709b8c71dc2ac1

Join by video system
Dial 968329152@nmemnrd.webex.com
You can also dial 173.243.2.68 and enter your meeting number.

Join by phone +1-408-418-9388 United States Toll Access code: 968 329 152

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

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

TO: All working interest owners and pooled parties, including: Devon Energy Production Company, LP; Chevron U.S.A. Inc.; and Read & Stevens, Inc.

Case No. 21259: Application of COG Operating LLC for compulsory pooling, Eddy County, New Mexico. Applicant in the above-styled cause seeks an order pooling all uncommitted interest owners in the Wolfcamp formation underlying a standard 960-acre, more or less, horizontal spacing unit comprised of the E/2 of Sections 24, 25, and 36, Township 25 South, Range 27 East, Eddy County, New Mexico. Applicant seeks to dedicate the above-referenced horizontal spacing unit to the to the following proposed wells:

unit to the to the following proposed wells:

•the Atticus State Com #701H well and the Atticus State Com #702H well, both of which will be drilled from a common surface hole location in the SE/4 SE/4 (Unit P) of Section 36 to bottom hole locations in the NE/4 NE/4 (Unit A) of Section 24; and

•the Atticus State Com #703H well, to be drilled from a surface hole location in SE/4 SW/4 (Unit N) of Section 36 to a bottom hole location in the NW/4 NE/4 (Unit B) of Section 34

The completed intervals of these wells will comply with the requirements of the Special Rules for the Purple Sage Wolframp Pool. Also, to be considered will be the cost of drilling and completing the wells, the allocation of the cost thereof, the actual operating costs and charges for supervision, the designation of applicant as operator, and the imposition of 200% charge for risk involved in drilling and completing each well. Said area is located approximately 8 miles south of Malaga, New Mexico.

#4166944, Current Argus, Apr. 28, 2020

Affidavit of Publication Ad # 0004166958 This is not an invoice

HOLLAND & HART POBOX 2208

SANTA FE, NM 87504

I, a legal clerk of the Carlsbad Current Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

04/28/2020

Legal Clerk

Subscribed and sworn before me this April 28, 2020:

State of WI, County of Brown NOTARY PUBLIC

My commission expires

Ad # 0004166958 PO #: Atticus State # of Affidavits1

This is not an invoice

NANCY HEYRMAN Notary Public State of Wisconsin

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TO: All working interest owners and pooled parties, including: Devon Energy Production Company, LP; Chevron U.S.A. Inc.; and Read & Stevens, Inc.

Case No. 21260: Application of COG Operating LLC for com-Case No. 21260: Application of COG Operating LLC for compulsory pooling, Eddy County, New Mexico. Applicant in the above-styled cause seeks an order pooling all uncommitted interest owners in the Wolfcamp formation underlying a standard 960-acre, more or less, horizontal spacing unit comprised of the W/2 of Sections 24, 25, and 36, Township 25 South, Range 27 East, Eddy County, New Mexico. Applicant seeks to dedicate the above-referenced horizontal spacing unit to the to the following proposed wells:

•the Atticus State Com #704H well, to be drilled from a surface hole location in SE/4 SW/4 (Unit N) of Section 36 to a bottom hole location in the NE/4 NW/4 (Unit C) of Section 24; and

24; and

•the Atticus State Com #705H well and the Atticus State Com #706H well, both of which will be drilled from a common surface hole location in the SW/4 SW/4 (Unit M) of Section 36 to bottom hole locations in the NW/4 NW/4 (Unit D) of Section 24.

The completed intervals of these wells will comply with the requirements of the Special Rules for the Purple Sage Wolfcamp Pool. Also, to be considered will be the cost of drilling and completing the wells, the allocation of the cost thereof, the actual operating costs and charges for supervision, the designation of applicant as operator, and the imposition of 200% charge for risk involved in drilling and completing each well. Said area is located approximately 8.3 miles south of Malaga, New Mexico. #4166958, Current Argus, Apr. 28, 2020