



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	<u>Atticus State Com 701H (30-015-46869)</u> 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
Well #2	<u>Atticus State Com 702H (30-015-46873)</u> 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	<u>Atticus State Com 703H (30-015-46870)</u> 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	
Land Ownership Schematic of the Spacing Unit	Exhibit C-3
Tract List (including lease numbers and owners)	Exhibit C-3
Pooled Parties (including ownership type)	Exhibit 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	Exhibit 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 provided in this checklist is complete and accurate.	
Printed Name (Attorney or Party Representative):	Kaitlyn A. Luck
Signed Name (Attorney or Party Representative):	
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
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
Completion Target (Formation, TVD and MD)	Exhibit C-4
AFE Capex and Operating Costs	
Drilling Supervision/Month \$	\$8,000
Production Supervision/Month \$	\$800
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Requested Risk Charge	200%
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Pooled Parties (including ownership type)	Exhibit C-3
Unlocatable Parties to be Pooled	N/A
Ownership Depth Severance (including percentage above & below)	N/A
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Sample Copy of Proposal Letter	Exhibit C-4

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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 provided in this checklist is complete and accurate.	
Printed Name (Attorney or Party Representative):	Kaitlyn A. Luck
Signed Name (Attorney or Party Representative):	
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.

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

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 its 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

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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 NO. 21260

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 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
- 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.

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 its 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.

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- 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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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-

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 directories 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. Laufer
LIZZY LAUFER

STATE OF TEXAS)
)
COUNTY OF MIDLAND)

SUBSCRIBED and SWORN to before me this 18th day of August 2020 by
Lizzy Laufer.

[Signature]
NOTARY PUBLIC

My Commission Expires:

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 contracts 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 contracts
- 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

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Exhibit No. C1

Submitted by: **COG OPERATING LLC**

Hearing Date: August 20, 2020

Case Nos. 21259-21260

District I1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720District II811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720District III1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170District IV1220 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 Number 30-015-	2 Pool Code 98220	3 Pool Name Purple Sage; Wolfcamp
4 Property Code	5 Property Name ATTICUS STATE COM	6 Well Number 701H
7 GRID No. 229137	8 Operator Name COG OPERATING LLC	9 Elevation 3095'

" Surface Location

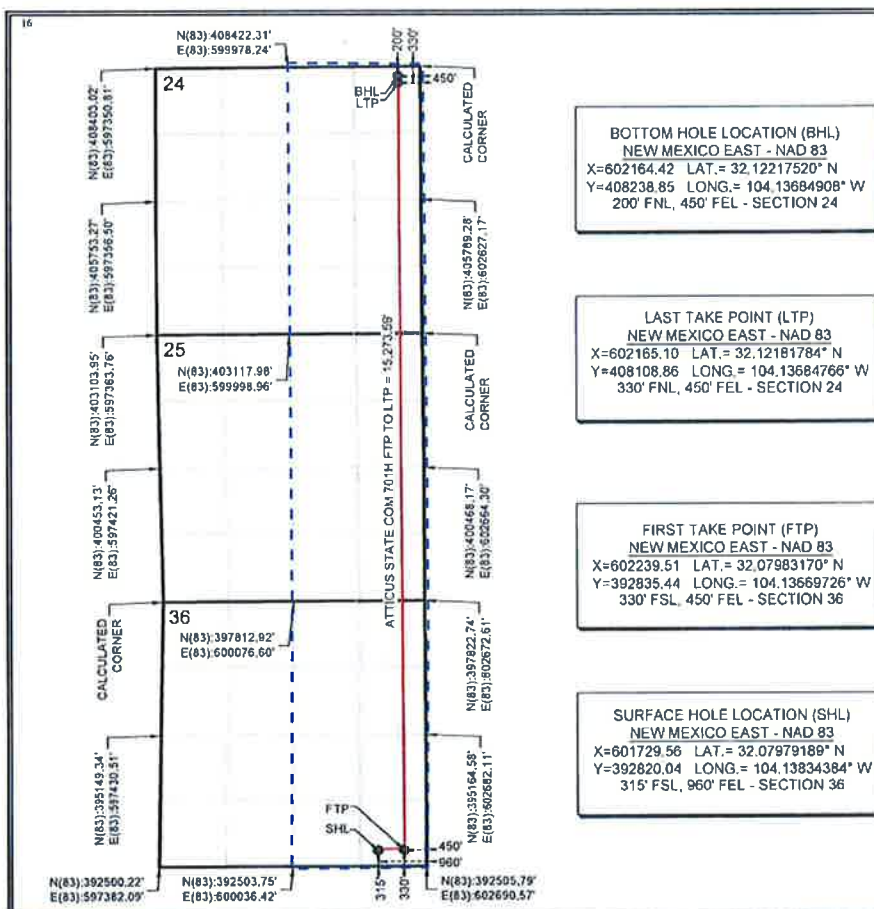
U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	36	25-S	27-E		315'	SOUTH	960'	EAST	EDDY

" Bottom Hole Location If Different From Surface

U/L 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 960	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.



17 OPERATOR CERTIFICATION

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

Signature: *[Signature]* Date: 03/17/2020

Printed Name: Robyn M. Russell

E-mail Address: Rrussell@concho.com

" SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: *[Signature]*
Signature and Seal of Professional Surveyor:

Certificate Number: 25036



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

☐ AMENDED REPORT

Date of Survey _____
Signature and Seal of Professional Surveyor _____
Certificate Number _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

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

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-	2 Pool Code 98220	3 Pool Name Purple Sage; Wolfcamp
4 Property Code	5 Property Name ATTICUS STATE COM	6 Well Number 703H
7 OGRID No. 229137	8 Operator Name COG OPERATING LLC	9 Elevation 3120'

" Surface Location

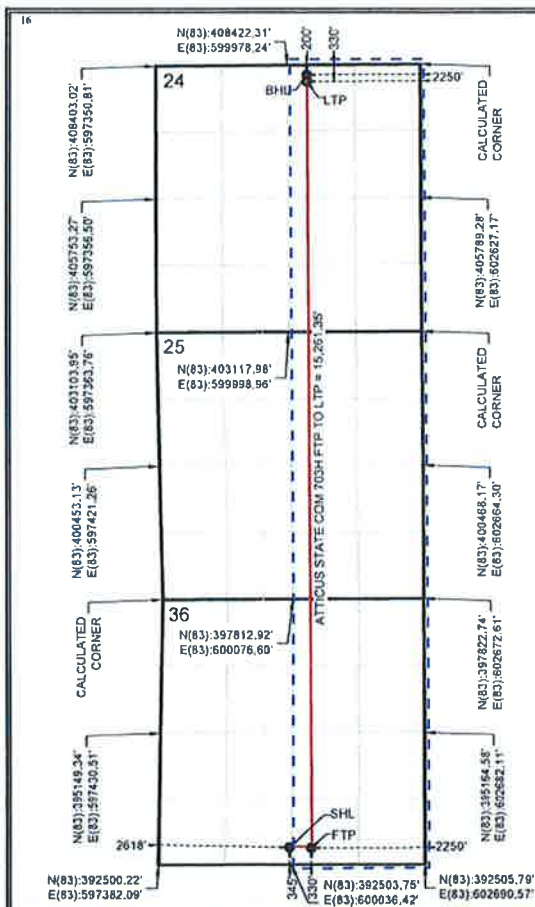
U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	36	25-S	27-E		345'	SOUTH	2618'	WEST	EDDY

" Bottom Hole Location If Different From Surface

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	24	25-S	27-E		200'	NORTH	2250'	EAST	EDDY

12 Dedicated Acres 960	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.



BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST - NAD 83
X=600364.47 LAT.= 32.12214663° N
Y=408225.23 LONG.= 104.14266337° W
200' FNL, 2250' FEL - SECTION 24

LAST TAKE POINT (LTP)
NEW MEXICO EAST - NAD 83
X=600365.15 LAT.= 32.12178926° N
Y=408095.23 LONG.= 104.14266193° W
330' FNL, 2250' FEL - SECTION 24

FIRST TAKE POINT (FTP)
NEW MEXICO EAST - NAD 83
X=600439.51 LAT.= 32.07983678° N
Y=392834.06 LONG.= 104.14250897° W
330' FSL, 2250' FEL - SECTION 36

SURFACE HOLE LOCATION (SHL)
NEW MEXICO EAST - NAD 83
X=600006.61 LAT.= 32.07987902° N
Y=392848.66 LONG.= 104.14390658° W
345' FSL, 2618' FWL - SECTION 36

17 OPERATOR CERTIFICATION

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

Signature *[Signature]* Date 03/05/2020

Printed Name Robyn M. Russell

E-mail Address Rrussell@concho.com

" SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey 3-3-2020
Signature and Seal of Garret J. Smelker, Surveyor

Certificate Number

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
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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

1 API Number 30-015-	2 Pool Code 98220	3 Pool Name Purple Sage; Wolfcamp
4 Property Code	5 Property Name ATTICUS STATE COM	6 Well Number 704H
7 OGRID No. 229137	8 Operator Name COG OPERATING LLC	9 Elevation 3121'

" Surface Location

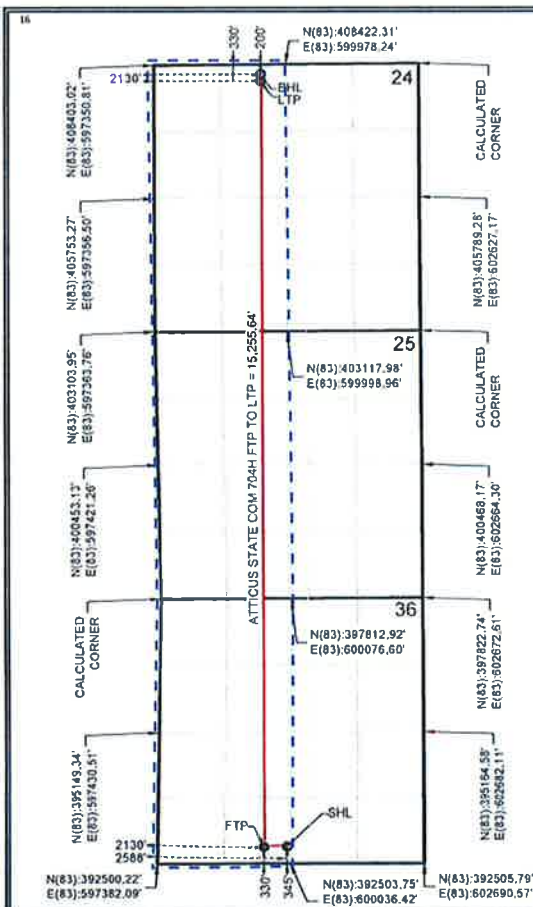
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	36	25-S	27-E		345'	SOUTH	2588'	WEST	EDDY

" 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
C	24	25-S	27-E		200'	NORTH	2130'	WEST	EDDY

12 Dedicated Acres 960	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.



BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST - NAD 83
X=599481.21 LAT.= 32.12213282° N
Y=408218.65 LONG.= 104.14551651° W
200' FNL, 2130' FWL - SECTION 24

LAST TAKE POINT (LTP)
NEW MEXICO EAST - NAD 83
X=599481.49 LAT.= 32.12177545° N
Y=408088.65 LONG.= 104.14551634° W
330' FNL, 2130' FWL - SECTION 24

FIRST TAKE POINT (FTP)
NEW MEXICO EAST - NAD 83
X=599518.53 LAT.= 32.07983849° N
Y=392833.06 LONG.= 104.14400338° W
330' FSL, 2130' FWL - SECTION 36

SURFACE HOLE LOCATION (SHL)
NEW MEXICO EAST - NAD 83
X=599976.63 LAT.= 32.07987922° N
Y=392848.68 LONG.= 104.14400338° W
345' FSL, 2588' FWL - SECTION 36

17 OPERATOR CERTIFICATION

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

Signature

03/05/2020

Date

Robyn M. Russell

Printed Name

Russell@concho.com

E-mail Address

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey

Signature and Seal of Professional Surveyor

Certificate Number



District I1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720District II811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720District III1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170District IV1220 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 Number 30-015-	2 Pool Code 98220	3 Pool Name Purple Sage; Wolfcamp
4 Property Code	5 Property Name ATTICUS STATE COM	6 Well Number 705H
7 OGRID No. 229137	8 Operator Name COG OPERATING LLC	9 Elevation 3143'

" Surface Location

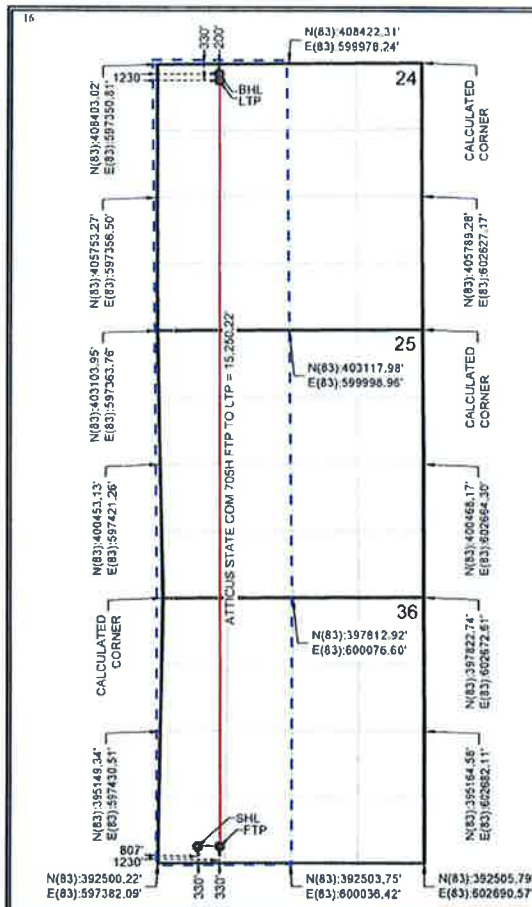
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	36	25-S	27-E		330'	SOUTH	807'	WEST	EDDY

" 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
D	24	25-S	27-E		200'	NORTH	1230'	WEST	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 non-standard unit has been approved by the division.



BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST - NAD 83
X=598581.22 LAT.= 32.12211894° N
Y=408212.05 LONG.= 104.14842369° W
200' FNL, 1230' FWL - SECTION 24

LAST TAKE POINT (LTP)
NEW MEXICO EAST - NAD 83
X=598581.50 LAT.= 32.12176157° N
Y=408082.04 LONG.= 104.14842351° W
330' FNL, 1230' FWL - SECTION 24

FIRST TAKE POINT (FTP)
NEW MEXICO EAST - NAD 83
X=598618.36 LAT.= 32.07983948° N
Y=392831.87 LONG.= 104.14838895° W
330' FSL, 1230' FWL - SECTION 36

SURFACE HOLE LOCATION (SHL)
NEW MEXICO EAST - NAD 83
X=598195.28 LAT.= 32.07983992° N
Y=392831.30 LONG.= 104.14975496° W
330' FSL, 807' FWL - SECTION 36

17 OPERATOR CERTIFICATION

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

Signature: *[Signature]* Date: 03/05/2020

Printed Name: Robyn M. Russell

E-mail Address: Russell@concho.com

" SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: *[Signature]*
Signature and Seal of Professional Surveyor

Certificate Number: 25036
3-3-2020
GARRETT J SMELKER
NEW MEXICO
PROFESSIONAL SURVEYOR

District I1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720District II811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720District III1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170District IV1220 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 Number 30-015-	2 Pool Code 98220	3 Pool Name Purple Sage; Wolfcamp
4 Property Code	5 Property Name ATTICUS STATE COM	6 Well Number 706H
7 OGRID No. 229137	8 Operator Name COG OPERATING LLC	9 Elevation 3143'

" Surface Location

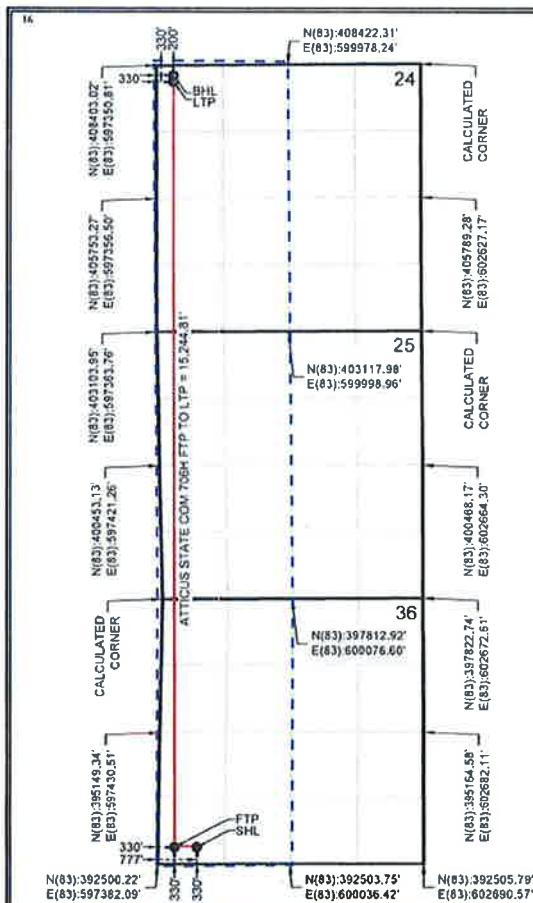
U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	36	25-S	27-E		330'	SOUTH	777'	WEST	EDDY

" Bottom Hole Location If Different From Surface

U/L 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	330'	WEST	EDDY

12 Dedicated Acres 960	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.



BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST - NAD 83
X=597681.24 LAT.= 32.12210499° N
Y=408205.44 LONG.= 104.15133087° W
200' FNL, 330' FWL - SECTION 24

LAST TAKE POINT (LTP)
NEW MEXICO EAST - NAD 83
X=597768.151 LAT.= 32.12174762° N
Y=408075.44 LONG.= 104.15133068° W
330' FNL, 330' FWL - SECTION 24

FIRST TAKE POINT (FTP)
NEW MEXICO EAST - NAD 83
X=597718.19 LAT.= 32.07984040° N
Y=392830.67 LONG.= 104.15129536° W
330' FSL, 330' FWL - SECTION 36

SURFACE HOLE LOCATION (SHL)
NEW MEXICO EAST - NAD 83
X=598165.25 LAT.= 32.07984020° N
Y=392831.36 LONG.= 104.14985193° W
330' FSL, 777' FWL - SECTION 36

17 OPERATOR CERTIFICATION

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

Signature

03/05/2020
Date

Robyn M. Russell

Printed Name

Russell@concho.com

E-mail Address

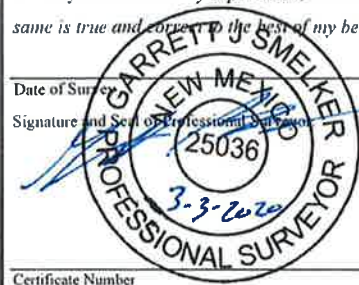
" SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey

Signature and Seal of Professional Surveyor

Certificate Number



W2 ATTICUS TRACTS / OWNERSHIP

Tract 1 VB-1006-01 160 ac	24-25S-27E	W2 ATTICUS SPACING UNIT	24-25S-27E
Tract 2 FEE 160 ac			
Tract 3 VB-1007-01 160 ac	25-25S-27E		25-25S-27E
Tract 4 VB-0995-01 160 ac			
Tract 5 VB-0996-02 160 ac	36-25S-27E		36-25S-27E
Tract 6 VB-1008-02 160 ac			

PARTIES TO POOL		RI / WI
Devon Energy Production Company LP 333 W. Sheridan Ave Oklahoma City, OK 73102		
Chevron U.S.A. Inc. 6301 Deauville Midland, TX 79706		WI / ORRI
Read & Stevens, Inc. P.O. Box 1518 Roswell, NM 88202		WI

LEASEHOLD OWNERSHIP							
LEASEHOLD OWNER	TR1	TR2	TR3	TR4	TR5	TR6	W2 Spacing Unit Recap
COG Operating LLC	10.586601%	10.586601%	10.586601%	0.000000%	11.875000%	11.875000%	55.509803%
Concho Oil & Gas LLC	0.289271%	0.289270%	0.289270%	0.000000%	0.000000%	0.000000%	0.867811%
Devon Energy Production Company, LP	5.790795%	5.790795%	5.790795%	0.000000%	0.000000%	0.000000%	17.372385%
Chevron U.S.A. Inc.	0.000000%	0.000000%	0.000000%	16.666667%	4.166667%	4.166667%	25.000001%
Read & Stevens, Inc.	0.000000%	0.000000%	0.000000%	0.000000%	0.625000%	0.625000%	1.250000%
							100.000000%

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

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Exhibit No. C3

Submitted by: COG OPERATING LLC

Hearing Date: August 20, 2020

Case Nos. 21259-21260

E2 ATTICUS TRACTS / OWNERSHIP

24-25S-27E	Tract 1 VB-1006-01 160 ac
25-25S-27E	Tract 3 VB-1007-01 160 ac
36-25S-27E	Tract 5 VB-0996-02 80 ac

24-25S-27E	E2 ATTICUS SPACING UNIT
25-25S-27E	E2 ATTICUS SPACING UNIT
36-25S-27E	E2 ATTICUS SPACING UNIT

PARTIES TO POOL	
Devon Energy Production Company LP	RI / WI
333 W. Sheridan Ave	
Oklahoma City, OK 73102	
Chevron U.S.A. Inc.	WI / ORRI
6301 Deauville	
Midland, TX 79706	
Read & Stevens, Inc.	WI
P.O. Box 1518	
Roswell, NM 88202	

LEASEHOLD OWNERSHIP										
LEASEHOLD OWNER	TR1	TR2	TR3	TR4	TR5	TR6	TR7	TR8	E2 Spacing Unit Recap	
COG Operating LLC	10.586601%	10.586601%	10.586601%	0.000000%	7.916667%	5.937500%	7.916667%	5.937500%	59.488137%	
Concho Oil & Gas LLC	0.289271%	0.289270%	0.289270%	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	0.867811%	
Devon Energy Production Company, LP	5.790795%	5.790795%	5.790795%	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	17.372385%	
Chevron U.S.A. Inc.	0.000000%	0.000000%	0.000000%	16.666667%	0.000000%	2.083333%	0.000000%	2.083334%	20.833333%	
Read & Stevens, Inc.	0.000000%	0.000000%	0.000000%	0.000000%	0.416667%	0.312500%	0.416667%	0.312500%	1.458334%	
									100.000000%	

Well Proposal sent	Yes
Communication Agreements sent	Yes
Designations of Pooled Unit sent	Yes
Joint Operating Agreements sent	Yes



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

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

Please Indicate your election below:

<u>WELL NAME</u>	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

By: _____

Name: _____

Title: _____

Date: _____

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 **Delivered**

February 20, 2020 at 7:53 am
Delivered
OKLAHOMA CITY, OK 73102

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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

Please Indicate your election below:

<u>WELL NAME</u>	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.


By: _____

Name: _____

Title: _____

Date: _____

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Status

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February 19, 2020 at 4:07 pm
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MIDLAND, TX 79708

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Your item was delivered to an individual at the address at 4:07 pm on February 19, 2020 in MIDLAND, TX 79708.



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

Please Indicate your election below:

<u>WELL NAME</u>	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.

By: _____

Name: _____

Title: _____

Date: _____

Tracking Number: 9171999991703979689138

Remove X

Status

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

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February 20, 2020 at 10:38 am
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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

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

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

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

Cost Description	Code	PreSpud (PS)	Pre-Set Casing(PC)	Drilling (DR)	Completions (C)	Tank Btty Constrctn(TB)	Pmpq Equip (PEQ)	Revision	Total
Intangible Costs									
D-Lctn/Pits/Roads	205			\$ 136,000.00			\$ -		\$ 136,000.00
D-Drilling Overhead	206			\$ 13,000.00			\$ -		\$ 13,000.00
D-Daywork Contract	209			\$ 953,000.00			\$ -		\$ 953,000.00
D-Directional Drig Services	210			\$ 456,000.00			\$ -		\$ 456,000.00
D-Fuel & Power	211			\$ 203,000.00			\$ -		\$ 203,000.00
D-Water	212			\$ 108,000.00			\$ -		\$ 108,000.00
D-Bits	213			\$ 151,000.00			\$ -		\$ 151,000.00
D-Mud & Chemicals	214			\$ 361,000.00			\$ -		\$ 361,000.00
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			\$ -		\$ 158,000.00
D-Float Equipment & Centralizers	221			\$ 86,000.00			\$ -		\$ 86,000.00
D-Csg Crews & Equip	222			\$ 93,000.00			\$ -		\$ 93,000.00
D-Contract Labor	225			\$ 10,000.00			\$ -		\$ 10,000.00
D-Company Sprvsn	226			\$ 73,000.00			\$ -		\$ 73,000.00
D-Contract Sprvsn	227			\$ 171,000.00			\$ -		\$ 171,000.00
D-Telg Csg/Tbg	228			\$ 58,000.00			\$ -		\$ 58,000.00
D-Mud Logging Unit	229			\$ 65,000.00			\$ -		\$ 65,000.00
D-Rentals-Surface	235			\$ 281,000.00			\$ -		\$ 281,000.00
D-Rentals-Subsrfc	236			\$ 131,000.00			\$ -		\$ 131,000.00
D-Trucking/Forklift/Rig Mob	237			\$ 201,000.00			\$ -		\$ 201,000.00
D-Welding Services	238			\$ 5,000.00			\$ -		\$ 5,000.00
D-Contingency	243			\$ 88,000.00			\$ -		\$ 88,000.00
D-Envmntl/Clsd Loop	244			\$ 441,000.00			\$ -		\$ 441,000.00
C-Wellbore Frac Prep	304				\$ 127,000.00		\$ -		\$ 127,000.00
C-Lctn/Pits/Roads	305				\$ 16,000.00		\$ -		\$ 16,000.00
C-Completion OH	306				\$ 23,000.00		\$ -		\$ 23,000.00
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-Fuel Delivery & Services	311				\$ 64,000.00		\$ -		\$ 64,000.00
C-Water	312				\$ 866,000.00		\$ -		\$ 866,000.00
C-Frac Surface Rentals	315				\$ 480,000.00		\$ -		\$ 480,000.00
C-Contract Labor	325				\$ 16,000.00		\$ -		\$ 16,000.00
C-Company Sprvsn	326				\$ 16,000.00		\$ -		\$ 16,000.00
C-Contract Sprvsn	327				\$ 227,000.00		\$ -		\$ 227,000.00
C-Artificial Lift Install	329				\$ 68,000.00		\$ -		\$ 68,000.00
C-Perf/Wireline Svc	331				\$ 570,000.00		\$ -		\$ 570,000.00
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		\$ -		\$ 495,000.00
C-Drillout	348				\$ 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
TB-Contract Labor	356					\$ 184,000.00	\$ -		\$ 184,000.00
PEQ-Contract Labor	374						\$ 43,000.00	\$ -	\$ 43,000.00
PEQ-Water Disposal	387						\$ 203,000.00	\$ -	\$ 203,000.00
PEQ-HRZ Well Offset Frac	391						\$ 21,000.00	\$ -	\$ 21,000.00
Total Intangible Costs		\$ -	\$ -	\$ 4,377,000.00	\$ 6,599,000.00	\$ 229,000.00	\$ 267,000.00	\$ -	\$ 11,472,000.00
Tangible Costs									
PEQ-Flowback Crews & Equip	392						\$ 122,000.00	\$ -	\$ 122,000.00
D-Surface Casing	401			\$ 35,000.00			\$ -		\$ 35,000.00
D-Intermed Csg	402			\$ 323,000.00			\$ -		\$ 323,000.00
D-Production Casing/Liner	403			\$ 446,000.00			\$ -		\$ 446,000.00
D-Wellhead Equip	405			\$ 108,000.00			\$ -		\$ 108,000.00
C-Tubing	504				\$ 79,000.00		\$ -		\$ 79,000.00
C-Wellhead Equip	505				\$ 43,000.00		\$ -		\$ 43,000.00
TB-Tanks	510					\$ 80,000.00	\$ -		\$ 80,000.00
TB-Flowlines/Pipelines	511					\$ 30,000.00	\$ -		\$ 30,000.00
TB-Hlr Trtr/Seprtr	512					\$ 185,000.00	\$ -		\$ 185,000.00
TB-Electrical System/Equipment	513					\$ 119,000.00	\$ -		\$ 119,000.00
C-Pckrs/Anchors/Hqrs	514				\$ 98,000.00		\$ -		\$ 98,000.00
TB-Couplings/Fittings/Valves	515					\$ 204,000.00	\$ -		\$ 204,000.00
TB-Pumps-Surface	521					\$ 25,000.00	\$ -		\$ 25,000.00
TB-Instrumentation/SCADA/POC	522					\$ 20,000.00	\$ -		\$ 20,000.00
TB-Miscellaneous	523					\$ 20,000.00	\$ -		\$ 20,000.00
TB-Meters/Lacts	525					\$ 25,000.00	\$ -		\$ 25,000.00
TB-Flares/Combusters/Emission	526					\$ 30,000.00	\$ -		\$ 30,000.00
C-Gas Lift/Compression	527				\$ 38,000.00		\$ -		\$ 38,000.00
PEQ-Wellhead Equipment	531						\$ 43,000.00	\$ -	\$ 43,000.00
Total Tangible Costs		\$ -	\$ -	\$ 912,000.00	\$ 258,000.00	\$ 738,000.00	\$ 165,000.00	\$ -	\$ 2,073,000.00
Total Gross Cost		\$ -	\$ -	\$ 5,289,000.00	\$ 6,857,000.00	\$ 967,000.00	\$ 432,000.00	\$ -	\$ 13,545,000.00

Note: The above costs are estimates only. Actual costs will be billed as incurred.

COG Operating LLC

By: _____

Date Prepared: _____

We approve:
% Working Interest

COG Operating LLC

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.

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

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

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

Cost Description	Code	PreSpud (PS)	Pre-Set Casing(PC)	Drilling (DR)	Completions (C)	Tank Btty Constrctn(TB)	Pmpq Equip (PEQ)	Revision	Total
Intangible Costs									
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D-Daywork Contract	209			\$ 953,000.00			\$ -		\$ 953,000.00
D-Directional Drig Services	210			\$ 456,000.00			\$ -		\$ 456,000.00
D-Fuel & Power	211			\$ 203,000.00			\$ -		\$ 203,000.00
D-Water	212			\$ 108,000.00			\$ -		\$ 108,000.00
D-Bits	213			\$ 151,000.00			\$ -		\$ 151,000.00
D-Mud & Chemicals	214			\$ 361,000.00			\$ -		\$ 361,000.00
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			\$ -		\$ 158,000.00
D-Float Equipment & Centralizers	221			\$ 86,000.00			\$ -		\$ 86,000.00
D-Csg Crews & Equip	222			\$ 93,000.00			\$ -		\$ 93,000.00
D-Contract Labor	225			\$ 10,000.00			\$ -		\$ 10,000.00
D-Company Sprvsn	226			\$ 73,000.00			\$ -		\$ 73,000.00
D-Contract Sprvsn	227			\$ 171,000.00			\$ -		\$ 171,000.00
D-Telg Csg/Tbg	228			\$ 58,000.00			\$ -		\$ 58,000.00
D-Mud Logging Unit	229			\$ 65,000.00			\$ -		\$ 65,000.00
D-Rentals-Surface	235			\$ 281,000.00			\$ -		\$ 281,000.00
D-Rentals-Subsrfc	236			\$ 131,000.00			\$ -		\$ 131,000.00
D-Trucking/Forklift/Rig Mob	237			\$ 201,000.00			\$ -		\$ 201,000.00
D-Welding Services	238			\$ 5,000.00			\$ -		\$ 5,000.00
D-Contingency	243			\$ 88,000.00			\$ -		\$ 88,000.00
D-Envmtl/Clsd Loop	244			\$ 441,000.00			\$ -		\$ 441,000.00
C-Wellbore Frac Prep	304				\$ 127,000.00		\$ -		\$ 127,000.00
C-Lctn/Pits/Roads	305				\$ 16,000.00		\$ -		\$ 16,000.00
C-Completion OH	306				\$ 23,000.00		\$ -		\$ 23,000.00
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-Fuel Delivery & Services	311				\$ 64,000.00		\$ -		\$ 64,000.00
C-Water	312				\$ 866,000.00		\$ -		\$ 866,000.00
C-Frac Surface Rentals	315				\$ 480,000.00		\$ -		\$ 480,000.00
C-Contract Labor	325				\$ 16,000.00		\$ -		\$ 16,000.00
C-Company Sprvsn	326				\$ 16,000.00		\$ -		\$ 16,000.00
C-Contract Sprvsn	327				\$ 227,000.00		\$ -		\$ 227,000.00
C-Artificial Lift Install	329				\$ 68,000.00		\$ -		\$ 68,000.00
C-Perf/Wireline Svc	331				\$ 570,000.00		\$ -		\$ 570,000.00
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		\$ -		\$ 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
TB-Contract Labor	356					\$ 184,000.00	\$ -		\$ 184,000.00
PEQ-Contract Labor	374						\$ 43,000.00	\$ -	\$ 43,000.00
PEQ-Water Disposal	387						\$ 203,000.00	\$ -	\$ 203,000.00
PEQ-HRZ Well Offset Frac	391						\$ 21,000.00	\$ -	\$ 21,000.00
Total Intangible Costs		\$ -	\$ -	\$ 4,377,000.00	\$ 6,599,000.00	\$ 229,000.00	\$ 267,000.00	\$ -	\$ 11,472,000.00
Tangible Costs									
PEQ-Flowback Crews & Equip	392						\$ 122,000.00	\$ -	\$ 122,000.00
D-Surface Casing	401			\$ 35,000.00			\$ -		\$ 35,000.00
D-Intermed Csg	402			\$ 323,000.00			\$ -		\$ 323,000.00
D-Production Casing/Liner	403			\$ 446,000.00			\$ -		\$ 446,000.00
D-Wellhead Equip	405			\$ 108,000.00			\$ -		\$ 108,000.00
C-Tubing	504				\$ 79,000.00		\$ -		\$ 79,000.00
C-Wellhead Equip	505				\$ 43,000.00		\$ -		\$ 43,000.00
TB-Tanks	510					\$ 80,000.00	\$ -		\$ 80,000.00
TB-Flowlines/Pipelines	511					\$ 30,000.00	\$ -		\$ 30,000.00
TB-Htr Trtr/Seprtr	512					\$ 185,000.00	\$ -		\$ 185,000.00
TB-Electrical System/Equipment	513					\$ 119,000.00	\$ -		\$ 119,000.00
C-Pckrs/Anchors/Hgrs	514				\$ 98,000.00		\$ -		\$ 98,000.00
TB-Couplings/Fittings/Valves	515					\$ 204,000.00	\$ -		\$ 204,000.00
TB-Pumps-Surface	521					\$ 25,000.00	\$ -		\$ 25,000.00
TB-Instrumentation/SCADA/POC	522					\$ 20,000.00	\$ -		\$ 20,000.00
TB-Miscellaneous	523					\$ 20,000.00	\$ -		\$ 20,000.00
TB-Meters/Lacts	525					\$ 25,000.00	\$ -		\$ 25,000.00
TB-Flares/Combusters/Emission	526					\$ 30,000.00	\$ -		\$ 30,000.00
C-Gas Lift/Compression	527				\$ 38,000.00		\$ -		\$ 38,000.00
PEQ-Wellhead Equipment	531						\$ 43,000.00	\$ -	\$ 43,000.00
Total Tangible Costs		\$ -	\$ -	\$ 912,000.00	\$ 258,000.00	\$ 738,000.00	\$ 165,000.00	\$ -	\$ 2,073,000.00
Total Gross Cost		\$ -	\$ -	\$ 5,289,000.00	\$ 6,857,000.00	\$ 967,000.00	\$ 432,000.00	\$ -	\$ 13,545,000.00

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COG Operating LLC

By: _____

Date Prepared: _____

We approve:
% Working Interest

COG Operating LLC

By: _____

Company: _____
By: _____

Printed Name: _____
Title: _____
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**COG OPERATING LLC
AUTHORITY FOR EXPENDITURE
Drill & Complete**

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

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

AFE Numbers

Cost Description	Code	PreSpud (PS)	Pre-Set Casing(PC)	Drilling (DR)	Completions (C)	Tank Btty Constrcn(TB)	Pmpq Equip (PEQ)	Revision	Total
Intangible Costs									
D-Lctn/Pits/Roads	205			\$ 136,000.00				\$ -	\$ 136,000.00
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D-Daywork Contract	209			\$ 953,000.00				\$ -	\$ 953,000.00
D-Directional Drig Services	210			\$ 456,000.00				\$ -	\$ 456,000.00
D-Fuel & Power	211			\$ 203,000.00				\$ -	\$ 203,000.00
D-Water	212			\$ 108,000.00				\$ -	\$ 108,000.00
D-Bits	213			\$ 151,000.00				\$ -	\$ 151,000.00
D-Mud & Chemicals	214			\$ 361,000.00				\$ -	\$ 361,000.00
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				\$ -	\$ 158,000.00
D-Float Equipment & Centralizers	221			\$ 86,000.00				\$ -	\$ 86,000.00
D-Csg Crews & Equip	222			\$ 93,000.00				\$ -	\$ 93,000.00
D-Contract Labor	225			\$ 10,000.00				\$ -	\$ 10,000.00
D-Company Sprvsn	226			\$ 73,000.00				\$ -	\$ 73,000.00
D-Contract Sprvsn	227			\$ 171,000.00				\$ -	\$ 171,000.00
D-Tslg Csg/Tbg	228			\$ 58,000.00				\$ -	\$ 58,000.00
D-Mud Logging Unit	229			\$ 65,000.00				\$ -	\$ 65,000.00
D-Rentals-Surface	235			\$ 281,000.00				\$ -	\$ 281,000.00
D-Rentals-Subsrlc	236			\$ 131,000.00				\$ -	\$ 131,000.00
D-Trucking/Forklift/Rig Mob	237			\$ 201,000.00				\$ -	\$ 201,000.00
D-Welding Services	238			\$ 5,000.00				\$ -	\$ 5,000.00
D-Contingency	243			\$ 88,000.00				\$ -	\$ 88,000.00
D-Envrnmntl/Clsd Loop	244			\$ 441,000.00				\$ -	\$ 441,000.00
C-Wellbore Frac Prep	304				\$ 127,000.00			\$ -	\$ 127,000.00
C-Lctn/Pits/Roads	305				\$ 16,000.00			\$ -	\$ 16,000.00
C-Completion OH	306				\$ 23,000.00			\$ -	\$ 23,000.00
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-Fuel Delivery & Services	311				\$ 64,000.00			\$ -	\$ 64,000.00
C-Water	312				\$ 866,000.00			\$ -	\$ 866,000.00
C-Frac Surface Rentals	315				\$ 480,000.00			\$ -	\$ 480,000.00
C-Contract Labor	325				\$ 16,000.00			\$ -	\$ 16,000.00
C-Company Sprvsn	326				\$ 16,000.00			\$ -	\$ 16,000.00
C-Contract Sprvsn	327				\$ 227,000.00			\$ -	\$ 227,000.00
C-Artificial Lift Install	329				\$ 68,000.00			\$ -	\$ 68,000.00
C-Perf/Wireline Svc	331				\$ 570,000.00			\$ -	\$ 570,000.00
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			\$ -	\$ 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
TB-Contract Labor	356					\$ 184,000.00		\$ -	\$ 184,000.00
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D-Intermed Csg	402			\$ 323,000.00				\$ -	\$ 323,000.00
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D-Wellhead Equip	405			\$ 108,000.00				\$ -	\$ 108,000.00
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C-Wellhead Equip	505				\$ 43,000.00			\$ -	\$ 43,000.00
TB-Tanks	510					\$ 80,000.00		\$ -	\$ 80,000.00
TB-Flowlines/Pipelines	511					\$ 30,000.00		\$ -	\$ 30,000.00
TB-Htr Trlr/Seprlr	512					\$ 185,000.00		\$ -	\$ 185,000.00
TB-Electrical System/Equipment	513					\$ 119,000.00		\$ -	\$ 119,000.00
C-Pckrs/Anchors/Hgrs	514				\$ 98,000.00			\$ -	\$ 98,000.00
TB-Couplings/Fittings/Valves	515					\$ 204,000.00		\$ -	\$ 204,000.00
TB-Pumps-Surface	521					\$ 25,000.00		\$ -	\$ 25,000.00
TB-Instrumentation/SCADA/POC	522					\$ 20,000.00		\$ -	\$ 20,000.00
TB-Miscellaneous	523					\$ 20,000.00		\$ -	\$ 20,000.00
TB-Meters/Lacts	525					\$ 25,000.00		\$ -	\$ 25,000.00
TB-Flares/Combusters/Emission	526					\$ 30,000.00		\$ -	\$ 30,000.00
C-Gas Lift/Compression	527				\$ 38,000.00			\$ -	\$ 38,000.00
PEQ-Wellhead Equipment	531						\$ 43,000.00	\$ -	\$ 43,000.00
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Total Gross Cost		\$ -	\$ -	\$ 5,289,000.00	\$ 6,857,000.00	\$ 967,000.00	\$ 432,000.00	\$ -	\$ 13,545,000.00

Note: The above costs are estimates only. Actual costs will be billed as incurred.

COG Operating LLC

By: _____

Date Prepared: _____

We approve:

% Working Interest

COG Operating LLC

By: _____

Company: _____
By: _____

Printed Name: _____
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**COG OPERATING LLC
AUTHORITY FOR EXPENDITURE
Drill & Complete**

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

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

Cost Description	Code	PreSpud (PS)	Pre-Set Casing(PC)	Drilling (DR)	Completions (C)	Tank Btty Constrctn(TB)	Pmpq Equip (PEQ)	Revision	Total
Intangible Costs									
D-Lctn/Pits/Roads	205			\$ 136,000.00			\$ -	\$ -	\$ 136,000.00
D-Drilling Overhead	206			\$ 13,000.00			\$ -	\$ -	\$ 13,000.00
D-Daywork Contract	209			\$ 953,000.00			\$ -	\$ -	\$ 953,000.00
D-Directional Drig Services	210			\$ 456,000.00			\$ -	\$ -	\$ 456,000.00
D-Fuel & Power	211			\$ 203,000.00			\$ -	\$ -	\$ 203,000.00
D-Water	212			\$ 108,000.00			\$ -	\$ -	\$ 108,000.00
D-Bits	213			\$ 151,000.00			\$ -	\$ -	\$ 151,000.00
D-Mud & Chemicals	214			\$ 361,000.00			\$ -	\$ -	\$ 361,000.00
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			\$ -	\$ -	\$ 158,000.00
D-Float Equipment & Centralizers	221			\$ 86,000.00			\$ -	\$ -	\$ 86,000.00
D-Csg Crews & Equip	222			\$ 93,000.00			\$ -	\$ -	\$ 93,000.00
D-Contract Labor	225			\$ 10,000.00			\$ -	\$ -	\$ 10,000.00
D-Company Sprvsn	226			\$ 73,000.00			\$ -	\$ -	\$ 73,000.00
D-Contract Sprvsn	227			\$ 171,000.00			\$ -	\$ -	\$ 171,000.00
D-Tstg Csg/Tbg	228			\$ 58,000.00			\$ -	\$ -	\$ 58,000.00
D-Mud Logging Unit	229			\$ 65,000.00			\$ -	\$ -	\$ 65,000.00
D-Rentals-Surface	235			\$ 281,000.00			\$ -	\$ -	\$ 281,000.00
D-Rentals-Subsrfc	236			\$ 131,000.00			\$ -	\$ -	\$ 131,000.00
D-Trucking/Forklift/Rig Mob	237			\$ 201,000.00			\$ -	\$ -	\$ 201,000.00
D-Welding Services	238			\$ 5,000.00			\$ -	\$ -	\$ 5,000.00
D-Contingency	243			\$ 88,000.00			\$ -	\$ -	\$ 88,000.00
D-Envrnmntl/Clsd Loop	244			\$ 441,000.00			\$ -	\$ -	\$ 441,000.00
C-Wellbore Frac Prep	304				\$ 127,000.00		\$ -	\$ -	\$ 127,000.00
C-Lctn/Pits/Roads	305				\$ 16,000.00		\$ -	\$ -	\$ 16,000.00
C-Completion OH	306				\$ 23,000.00		\$ -	\$ -	\$ 23,000.00
C-Frac Equipment	307				\$ 1,464,000.00		\$ -	\$ -	\$ 1,464,000.00
C-Frac Chemicals	308				\$ 627,000.00		\$ -	\$ -	\$ 627,000.00
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C-Frac Proppant Transportation	310				\$ 442,000.00		\$ -	\$ -	\$ 442,000.00
C-Fuel Delivery & Services	311				\$ 64,000.00		\$ -	\$ -	\$ 64,000.00
C-Water	312				\$ 866,000.00		\$ -	\$ -	\$ 866,000.00
C-Frac Surface Rentals	315				\$ 480,000.00		\$ -	\$ -	\$ 480,000.00
C-Contract Labor	325				\$ 16,000.00		\$ -	\$ -	\$ 16,000.00
C-Company Sprvsn	326				\$ 16,000.00		\$ -	\$ -	\$ 16,000.00
C-Contract Sprvsn	327				\$ 227,000.00		\$ -	\$ -	\$ 227,000.00
C-Artificial Lift Install	329				\$ 68,000.00		\$ -	\$ -	\$ 68,000.00
C-Perf/Wireline Svc	331				\$ 570,000.00		\$ -	\$ -	\$ 570,000.00
C-Trucking/Forklift/Rig Mob	337				\$ 16,000.00		\$ -	\$ -	\$ 16,000.00
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AUTHORITY FOR EXPENDITURE
Drill & Complete

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

Prospect ATLAS 2527 (717054)
 State & County NEW MEXICO, EDDY
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D-Mud & Chemicals	214			\$ 361,000.00			\$ -	\$ -	\$ 361,000.00
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D-Welding Services	238			\$ 5,000.00			\$ -	\$ -	\$ 5,000.00
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C-Perf/Wireline Svc	331				\$ 570,000.00		\$ -	\$ -	\$ 570,000.00
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		\$ -	\$ -	\$ 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
TB-Contract Labor	356					\$ 184,000.00	\$ -	\$ -	\$ 184,000.00
PEQ-Contract Labor	374						\$ 43,000.00	\$ -	\$ 43,000.00
PEQ-Water Disposal	387						\$ 203,000.00	\$ -	\$ 203,000.00
PEQ-HRZ Well Offset Frac	391						\$ 21,000.00	\$ -	\$ 21,000.00
Total Intangible Costs		\$ -	\$ -	\$ 4,377,000.00	\$ 6,599,000.00	\$ 229,000.00	\$ 267,000.00	\$ -	\$ 11,472,000.00
Tangible Costs									
PEQ-Flowback Crews & Equip	392						\$ 122,000.00	\$ -	\$ 122,000.00
D-Surface Casing	401			\$ 35,000.00			\$ -	\$ -	\$ 35,000.00
D-Intermed Csg	402			\$ 323,000.00			\$ -	\$ -	\$ 323,000.00
D-Production Casing/Liner	403			\$ 446,000.00			\$ -	\$ -	\$ 446,000.00
D-Wellhead Equip	405			\$ 108,000.00			\$ -	\$ -	\$ 108,000.00
C-Tubing	504				\$ 79,000.00		\$ -	\$ -	\$ 79,000.00
C-Wellhead Equip	505				\$ 43,000.00		\$ -	\$ -	\$ 43,000.00
TB-Tanks	510					\$ 80,000.00	\$ -	\$ -	\$ 80,000.00
TB-Flowlines/Pipelines	511					\$ 30,000.00	\$ -	\$ -	\$ 30,000.00
TB-Htr Trtr/Seprtr	512					\$ 185,000.00	\$ -	\$ -	\$ 185,000.00
TB-Electrical System/Equipment	513					\$ 119,000.00	\$ -	\$ -	\$ 119,000.00
C-Pckrs/Anchors/Hgrs	514			\$ 98,000.00			\$ -	\$ -	\$ 98,000.00
TB-Couplings/Fittings/Valves	515				\$ 204,000.00		\$ -	\$ -	\$ 204,000.00
TB-Pumps-Surface	521				\$ 25,000.00		\$ -	\$ -	\$ 25,000.00
TB-Instrumentation/SCADA/POC	522				\$ 20,000.00		\$ -	\$ -	\$ 20,000.00
TB-Miscellaneous	523				\$ 20,000.00		\$ -	\$ -	\$ 20,000.00
TB-Meters/Lacts	525				\$ 25,000.00		\$ -	\$ -	\$ 25,000.00
TB-Flares/Combusters/Emission	526				\$ 30,000.00		\$ -	\$ -	\$ 30,000.00
C-Gas Lift/Compression	527			\$ 38,000.00			\$ -	\$ -	\$ 38,000.00
PEQ-Wellhead Equipment	531						\$ 43,000.00	\$ -	\$ 43,000.00
Total Tangible Costs		\$ -	\$ -	\$ 912,000.00	\$ 258,000.00	\$ 738,000.00	\$ 165,000.00	\$ -	\$ 2,073,000.00
Total Gross Cost		\$ -	\$ -	\$ 5,289,000.00	\$ 6,857,000.00	\$ 967,000.00	\$ 432,000.00	\$ -	\$ 13,545,000.00

Note: The above costs are estimates only. Actual costs will be billed as incurred.

COG Operating LLC

By: _____

Date Prepared: _____

We approve:
 % Working Interest

COG Operating LLC

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.

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

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

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

Cost Description	Code	PreSpud (PS)	Pre-Set Casing(PC)	Drilling (DR)	Completions (C)	Tank Btty Constrctn(TB)	Pmpq Equip (PEQ)	Revision	Total
Intangible Costs									
D-LcIn/Pits/Roads	205			\$ 136,000.00			\$ -	\$ -	136,000.00
D-Drilling Overhead	206			\$ 13,000.00			\$ -	\$ -	13,000.00
D-Daywork Contract	209			\$ 953,000.00			\$ -	\$ -	953,000.00
D-Directional Drlg Services	210			\$ 456,000.00			\$ -	\$ -	456,000.00
D-Fuel & Power	211			\$ 203,000.00			\$ -	\$ -	203,000.00
D-Water	212			\$ 108,000.00			\$ -	\$ -	108,000.00
D-Bits	213			\$ 151,000.00			\$ -	\$ -	151,000.00
D-Mud & Chemicals	214			\$ 361,000.00			\$ -	\$ -	361,000.00
D-Cement Surface	217			\$ 28,000.00			\$ -	\$ -	28,000.00
D-Cement Intermed	218			\$ 107,000.00			\$ -	\$ -	107,000.00
D-Prod-2nd Int Cml	219			\$ 158,000.00			\$ -	\$ -	158,000.00
D-Float Equipment & Centralizers	221			\$ 86,000.00			\$ -	\$ -	86,000.00
D-Csg Crews & Equip	222			\$ 93,000.00			\$ -	\$ -	93,000.00
D-Contract Labor	225			\$ 10,000.00			\$ -	\$ -	10,000.00
D-Company Sprvsn	226			\$ 73,000.00			\$ -	\$ -	73,000.00
D-Contract Sprvsn	227			\$ 171,000.00			\$ -	\$ -	171,000.00
D-Tslg Csg/Tbg	228			\$ 58,000.00			\$ -	\$ -	58,000.00
D-Mud Logging Unit	229			\$ 65,000.00			\$ -	\$ -	65,000.00
D-Rentals-Surface	235			\$ 281,000.00			\$ -	\$ -	281,000.00
D-Rentals-Subsrfc	236			\$ 131,000.00			\$ -	\$ -	131,000.00
D-Trucking/Forklift/Rig Mob	237			\$ 201,000.00			\$ -	\$ -	201,000.00
D-Welding Services	238			\$ 5,000.00			\$ -	\$ -	5,000.00
D-Contingency	243			\$ 88,000.00			\$ -	\$ -	88,000.00
D-Envmntl/Cisd Loop	244			\$ 441,000.00			\$ -	\$ -	441,000.00
C-Wellbore Frac Prep	304				\$ 127,000.00		\$ -	\$ -	127,000.00
C-LcIn/Pits/Roads	305				\$ 16,000.00		\$ -	\$ -	16,000.00
C-Completion OH	306				\$ 23,000.00		\$ -	\$ -	23,000.00
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-Fuel Delivery & Services	311				\$ 64,000.00		\$ -	\$ -	64,000.00
C-Water	312				\$ 866,000.00		\$ -	\$ -	866,000.00
C-Frac Surface Rentals	315				\$ 480,000.00		\$ -	\$ -	480,000.00
C-Contract Labor	325				\$ 16,000.00		\$ -	\$ -	16,000.00
C-Company Sprvsn	326				\$ 16,000.00		\$ -	\$ -	16,000.00
C-Contract Sprvsn	327				\$ 227,000.00		\$ -	\$ -	227,000.00
C-Artificial Lift Install	329				\$ 68,000.00		\$ -	\$ -	68,000.00
C-Perf/Wireline Svc	331				\$ 570,000.00		\$ -	\$ -	570,000.00
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		\$ -	\$ -	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
TB-Contract Labor	356					\$ 184,000.00	\$ -	\$ -	184,000.00
PEQ-Contract Labor	374						\$ 43,000.00	\$ -	43,000.00
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D-Intermed Csg	402			\$ 323,000.00			\$ -	\$ -	323,000.00
D-Production Casing/Liner	403			\$ 446,000.00			\$ -	\$ -	446,000.00
D-Wellhead Equip	405			\$ 108,000.00			\$ -	\$ -	108,000.00
C-Tubing	504				\$ 79,000.00		\$ -	\$ -	79,000.00
C-Wellhead Equip	505				\$ 43,000.00		\$ -	\$ -	43,000.00
TB-Tanks	510					\$ 80,000.00	\$ -	\$ -	80,000.00
TB-Flowlines/Pipelines	511					\$ 30,000.00	\$ -	\$ -	30,000.00
TB-Hlr Trtr/Seprtr	512					\$ 185,000.00	\$ -	\$ -	185,000.00
TB-Electrical System/Equipment	513					\$ 119,000.00	\$ -	\$ -	119,000.00
C-Pckrs/Anchors/Hgrs	514			\$ 98,000.00			\$ -	\$ -	98,000.00
TB-Couplings/Fittings/Valves	515				\$ 204,000.00		\$ -	\$ -	204,000.00
TB-Pumps-Surface	521				\$ 25,000.00		\$ -	\$ -	25,000.00
TB-Instrumentation/SCADA/POC	522				\$ 20,000.00		\$ -	\$ -	20,000.00
TB-Miscellaneous	523				\$ 20,000.00		\$ -	\$ -	20,000.00
TB-Meters/Lacts	525				\$ 25,000.00		\$ -	\$ -	25,000.00
TB-Flares/Combusters/Emission	526				\$ 30,000.00		\$ -	\$ -	30,000.00
C-Gas Lift/Compression	527			\$ 38,000.00			\$ -	\$ -	38,000.00
PEQ-Wellhead Equipment	531						\$ 43,000.00	\$ -	43,000.00
Total Tangible Costs		\$ -	\$ -	\$ 912,000.00	\$ 258,000.00	\$ 738,000.00	\$ 165,000.00	\$ -	\$ 2,073,000.00
Total Gross Cost		\$ -	\$ -	\$ 5,289,000.00	\$ 6,857,000.00	\$ 967,000.00	\$ 432,000.00	\$ -	\$ 13,545,000.00

Note: The above costs are estimates only. Actual costs will be billed as incurred.

COG Operating LLC

By: _____

Date Prepared: _____

COG Operating LLC

We approve:

% 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.

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)

**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.

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 Wolfcamp 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
CHESNEY GILLELAND

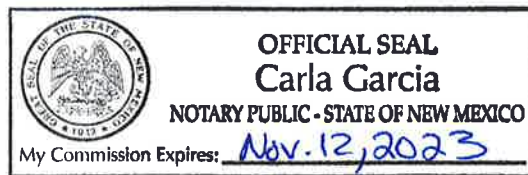
STATE OF TEXAS)
)
COUNTY OF MIDLAND)

SUBSCRIBED and SWORN to before me this 17th day of August 2020 by
Chesney Gilleland.

Carla Garcia
NOTARY PUBLIC

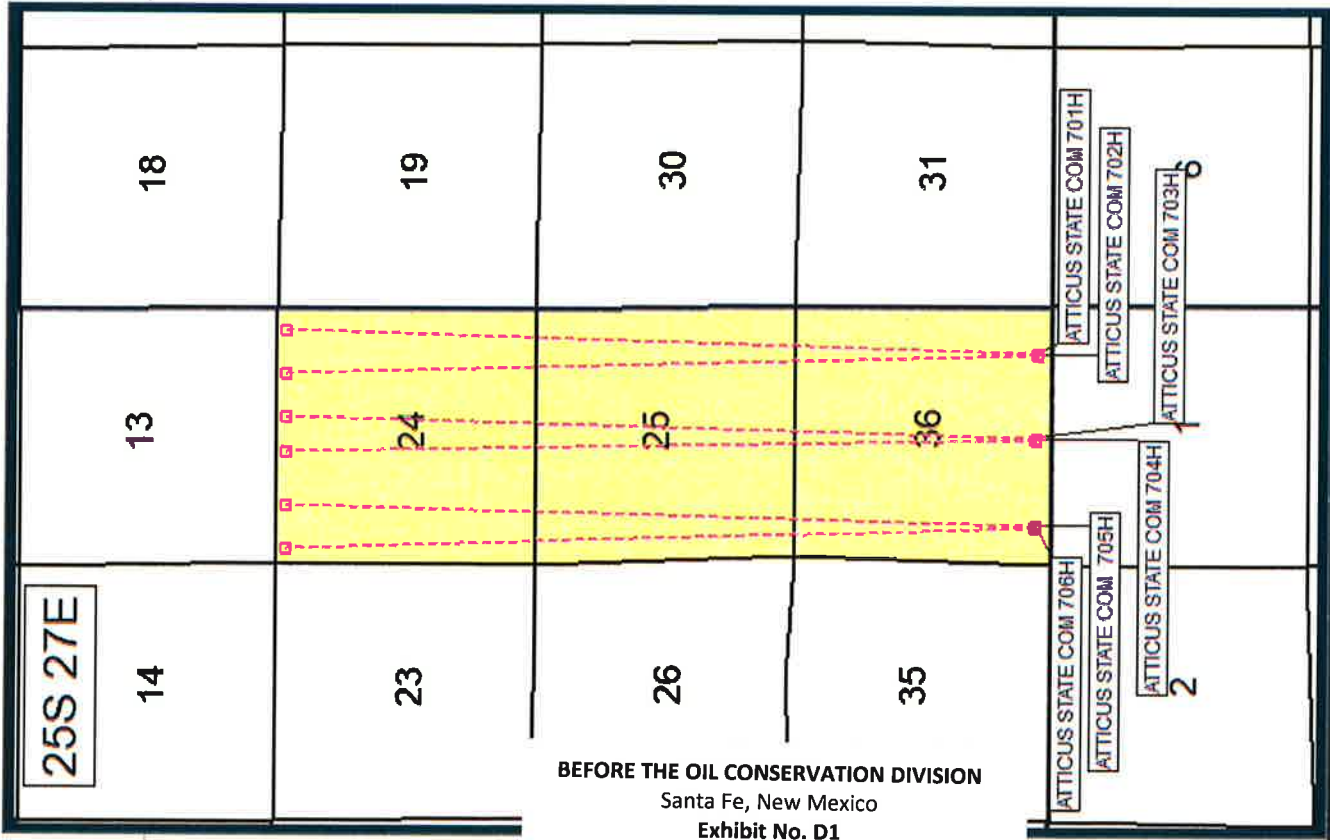
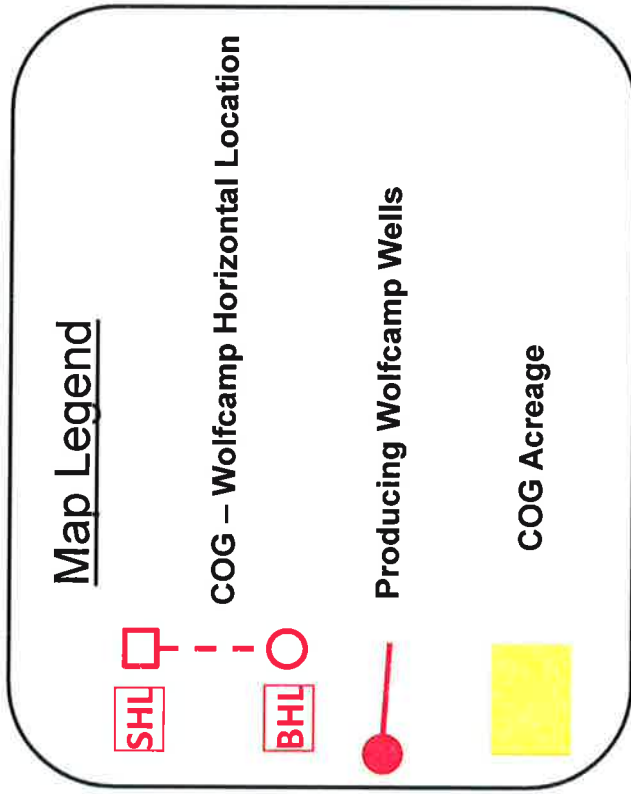
My Commission Expires:

Nov. 12, 2023



Wolfcamp Pool

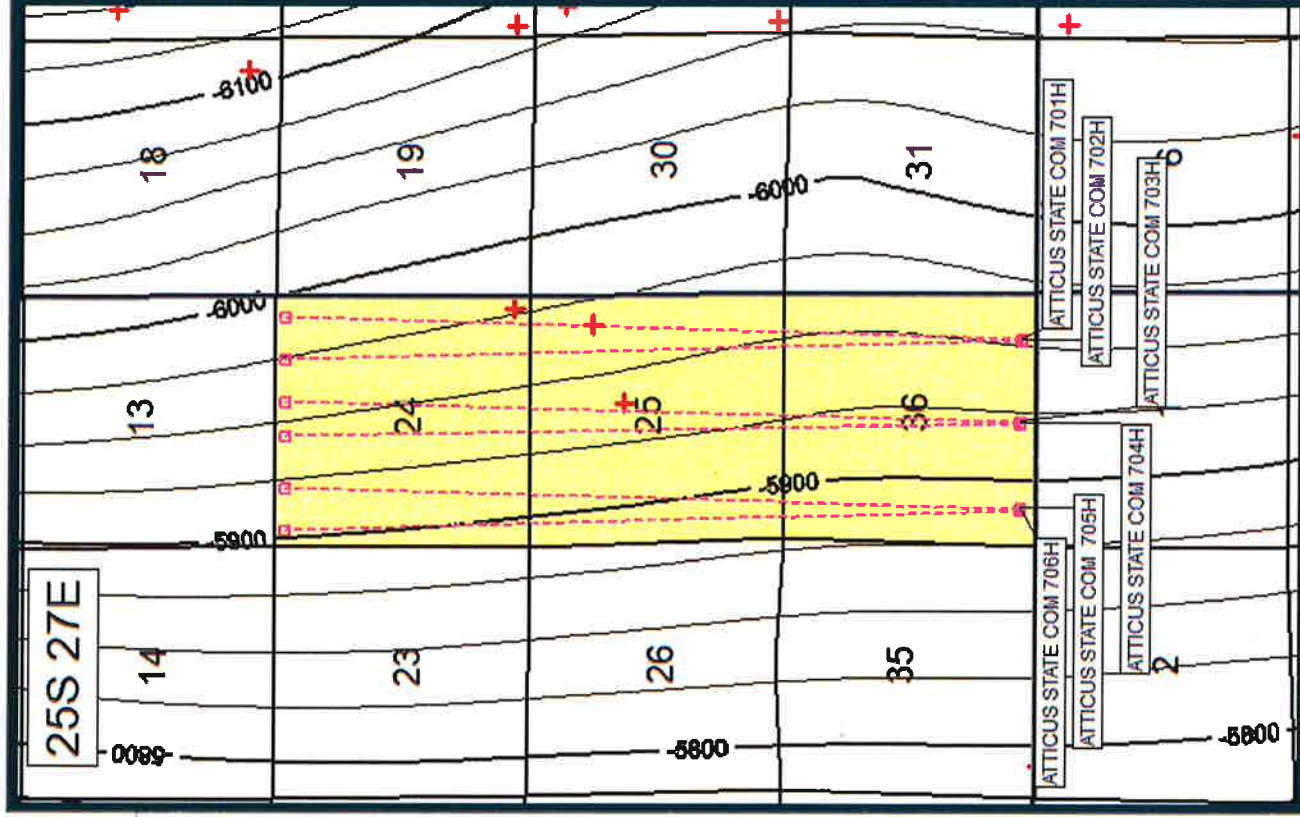
Atticus State Com 701H-706H



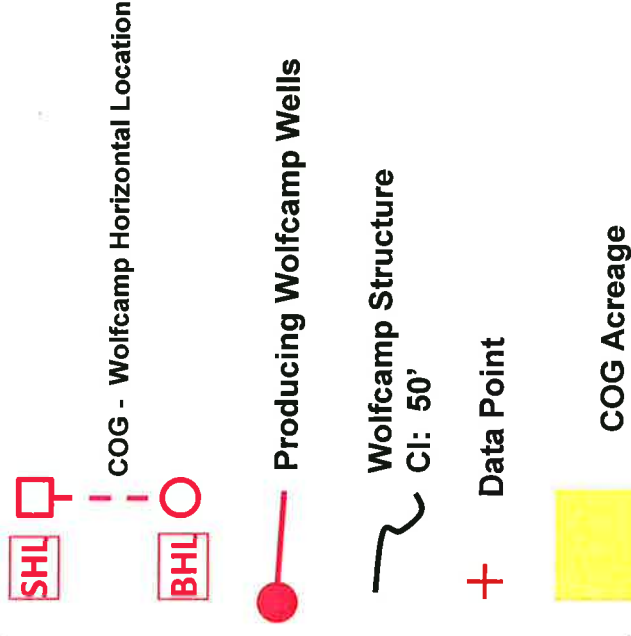
BEFORE THE OIL CONSERVATION DIVISION
 Santa Fe, New Mexico
 Exhibit No. D1
 Submitted by: COG OPERATING LLC
 Hearing Date: August 20, 2020
 Case Nos. 21259-21260



Wolfcamp Pool Wolfcamp Structure Map

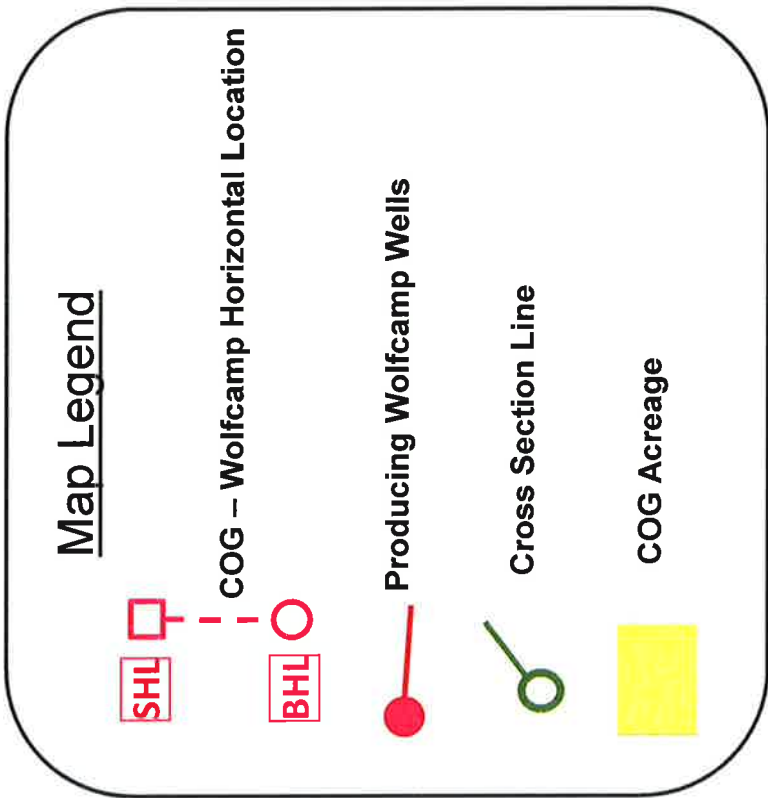
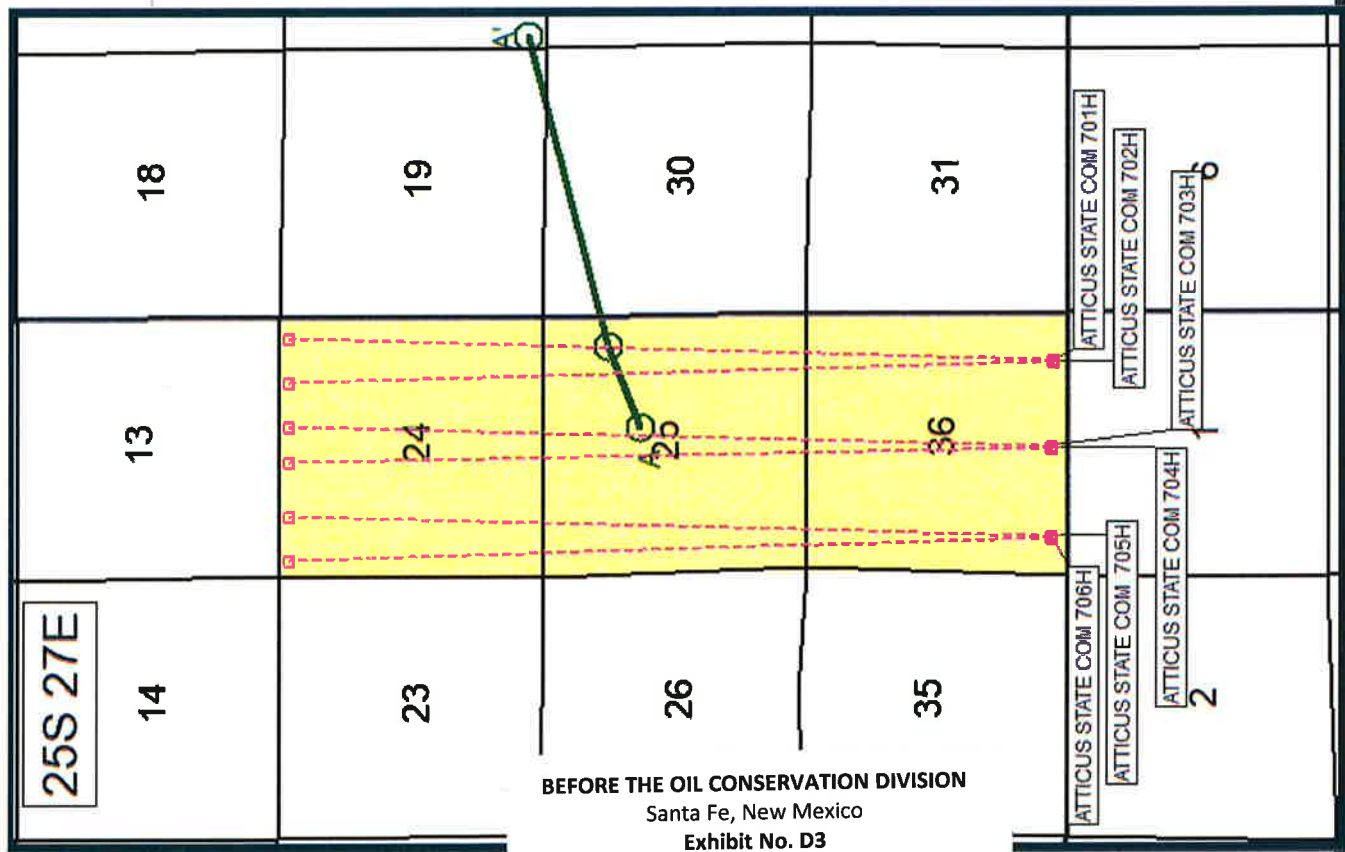


Map Legend



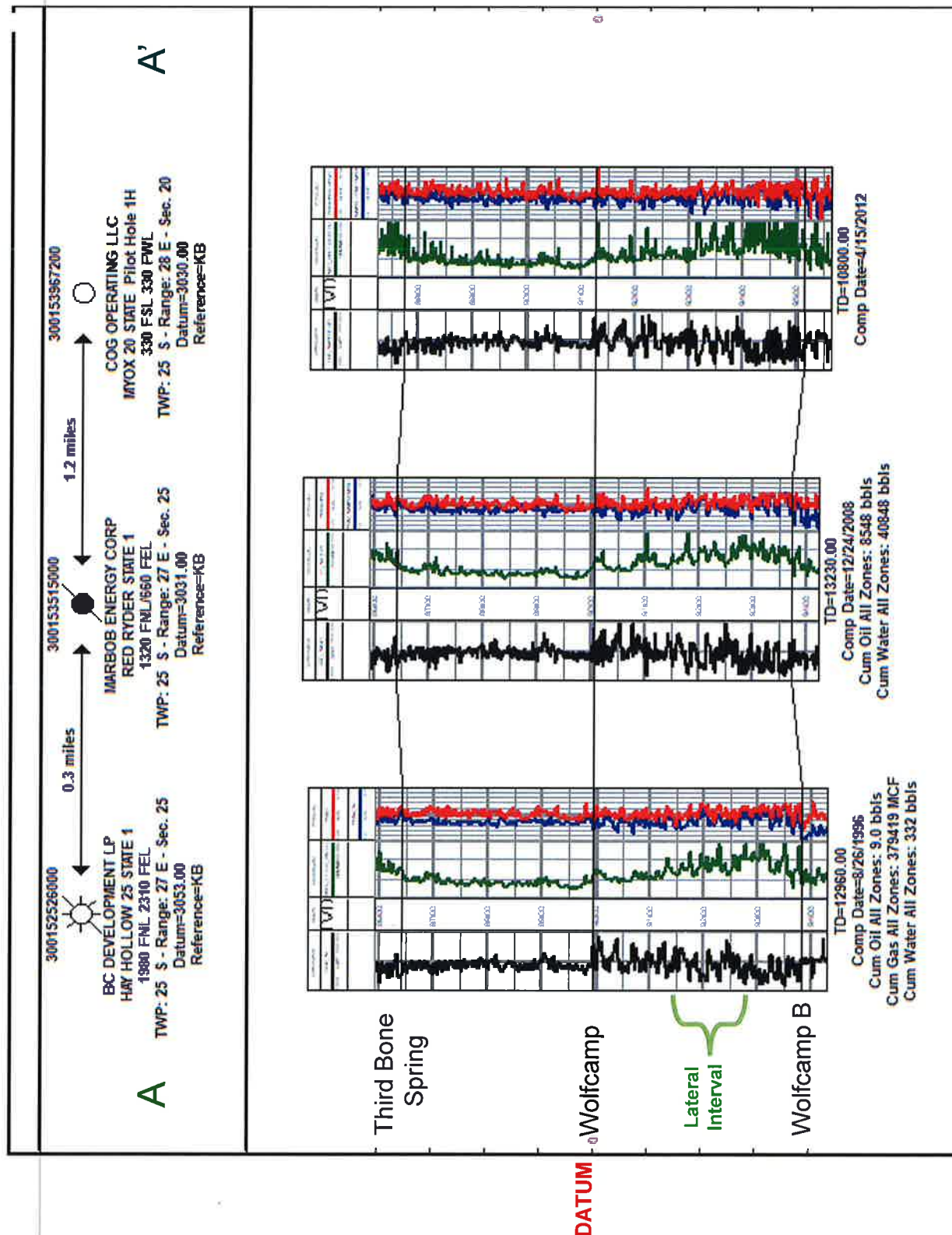
BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. D2
Submitted by: COG OPERATING LLC
Hearing Date: August 20, 2020
Case Nos. 21259-21260

Wolfcamp Pool Cross Section Map



BEFORE THE OIL CONSERVATION DIVISION
 Santa Fe, New Mexico
 Exhibit No. D3
 Submitted by: **COG OPERATING LLC**
 Hearing Date: August 20, 2020
 Case Nos. 21259-21260

Stratigraphic Cross Section A – A'



**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)
) ss.
COUNTY OF SANTA FE)

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.



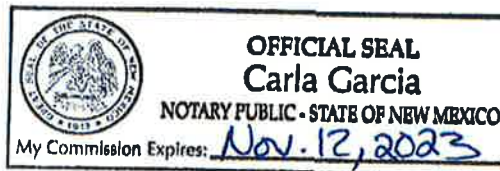
Kaitlyn A. Luck

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


Notary Public

My Commission Expires:

Nov. 12, 2023



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



Adam G. Rankin
Phone (505) 988-4421
Fax (505) 983-6043
agrarkin@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 Public 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,

A handwritten signature in blue ink, appearing to read "Adam G. Rankin".

Adam G. Rankin
ATTORNEY FOR COG OPERATING LLC

HOLLAND & HART



Adam G. Rankin

Phone (505) 988-4421

Fax (505) 983-6043

agrarkin@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	USPS_Status
9414810898765062249333	Devon Energy Production Company, LP Attn Land Department	333 W Sheridan Ave	Oklahoma City	OK	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 transit to the destination.
9414810898765062249340	Chevron U.S.A. Inc. Attn Kristen Hunter	6301 Deauville	Midland	TX	79706-2964	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.
9414810898765062249357	Read & Stevens, Inc. Attn Land Department	PO Box 1518	Roswell	NM	88202-1518	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.

Carlsbad Current Argus.

PART OF THE USA TODAY NETWORK

Affidavit of Publication

Ad # 0004166944

This is not an invoice

HOLLAND & HART
POBOX 2208

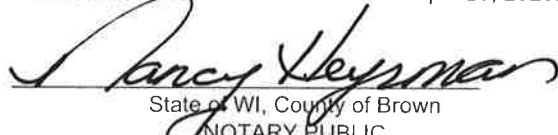
SANTA FE, NM 87504

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:


State of WI, County of Brown
NOTARY PUBLIC
5-15-23
My commission expires

NANCY HEYRMAN
Notary Public
State of Wisconsin

Ad # 0004166944
PO #: Atticus State
of Affidavits 1

This is not an invoice

BEFORE THE OIL CONSERVATION DIVISION
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 Public 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.emnrd.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.emnrd.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=mb3ddb90721ccc17207709b8c71dc2ac1>

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 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.

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 miles south of Malaga, New Mexico.

#4166944, Current Argus, Apr. 28, 2020

Affidavit of Publication

Ad # 0004166958

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HOLLAND & HART
POBOX 2208

SANTA FE, NM 87504

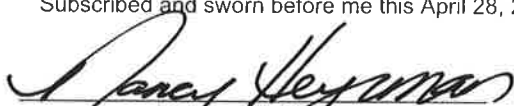
I, a legal clerk of the **Carlsbad Current Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements 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



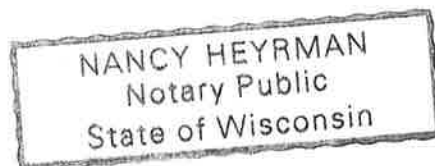
Legal Clerk

Subscribed and sworn before me this April 28, 2020:



State of WI, County of Brown
NOTARY PUBLIC
5.15.23

My commission expires



Ad # 0004166958
PO #: Atticus State
of Affidavits 1

This is not an invoice

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

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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 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

- 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