



COG OPERATING LLC  
Gin & Tectonic Fed Com 504H-506H, 701H-708H  
Lea County, New Mexico

Case Nos. 22460-22462  
BEFORE THE OIL CONSERVATION DIVISION  
EXAMINER HEARING April 07, 2022



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

**APPLICATIONS OF COG OPERATING LLC  
FOR COMPULSORY POOLING,  
LEA COUNTY, NEW MEXICO.**

**CASE NOS. 22460, 22461, 22462**

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**COMPULSORY POOLING APPLICATION CHECKLIST****ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS**

<b>Case: 22460</b>	<b>APPLICANT'S RESPONSE</b>
<b>Date: April 7, 2022</b>	
Applicant	COG Operating LLC
Designated Operator & OGRID (affiliation if applicable)	229137
Applicant's Counsel:	Holland & Hart LLP
Case Title:	APPLICATION OF COG OPERATING LLC FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.
Entries of Appearance/Intervenors:	Cimarex Energy Co.
Well Family	Gin and Tectonic Federal Com
<b>Formation/Pool</b>	
Formation Name(s) or Vertical Extent:	Bone Spring
Primary Product (Oil or Gas):	Oil
Pooling this vertical extent:	Yes; from a depth of 10,000 feet to the base of the Bone Spring formation
Pool Name and Pool Code:	Mesa Verde; Bone Spring (96229)
Well Location Setback Rules:	Standard
Spacing Unit Size:	639.87 acre, more or less
<b>Spacing Unit</b>	
Type (Horizontal/Vertical)	Horizontal
Size (Acres)	639.87 acre, more or less
Building Blocks:	40 acres
Orientation:	South to North
Description: TRS/County	Lots 3 & 4, S/2 NW/4, SW/4 (W/2 equivalent) of Section 5, Township 24 South, Range 32 East and the W/2 of Section 32, Township 23 South, Range 32 East, N.M.P.M., Lea County, New Mexico.
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes
<b>Other Situations</b>	
Depth Severance: Y/N. If yes, description	Yes; from a depth of 10,000 feet to the base of the Bone Spring formation
Proximity Tracts: If yes, description	Yes; The completed interval for the proposed Gin and Tectonic Federal Com #505H well will be within 330 feet of the line separating the E/2 W/2 and W/2 W/2 to allow inclusion of this acreage in the spacing unit

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Exhibit No. A

Submitted by: COG OPERATING LLC

Hearing Date: April 7, 2022

Case Nos. 22460, 22462

Proximity Defining Well: if yes, description	Gin and Tectonic Federal Com #505H well
Applicant's Ownership in Each Tract	Exhibit C-3
<b>Well(s)</b>	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)	
Well #1	<p><b>Gin and Tectonic Federal Com #504H well</b>  <b>SHL: SE/4 SW/4 (Unit N) of Section 5, Township 24 South, Range 32 East.</b>  <b>BHL: NE/4 NW/4 (Unit C) of Section 32, Township 23 South, Range 32 East.</b></p> <p><b>Completion Target: Bone Spring formation</b>  <b>Well Orientation: south to north</b>  <b>Completion Location expected to be: Standard</b></p>
Well #2	<p><b>Gin and Tectonic Federal Com #505H well</b>  <b>SHL: SW/4 SW/4 (Unit M) of Section 5, Township 24 South, Range 32 East.</b>  <b>BHL: NW/4 NW/4 (Unit D) of Section 32, Township 23 South, Range 32 East.</b></p> <p><b>Completion Target: Bone Spring formation</b>  <b>Well Orientation: south to north</b>  <b>Completion Location expected to be: Standard</b></p>
Well #3	<p><b>Gin and Tectonic Federal Com #506H well</b>  <b>SHL: SW/4 SW/4 (Unit M) of Section 5, Township 24 South, Range 32 East.</b>  <b>BHL: NW/4 NW/4 (Unit D) of Section 32, Township 23 South, Range 32 East.</b></p> <p><b>Completion Target: Bone Spring formation</b>  <b>Well Orientation: south to north</b>  <b>Completion Location expected to be: Standard</b></p>
Horizontal Well First and Last Take Points	Exhibit C-2
Completion Target (Formation, TVD and MD)	Exhibit C-2, D-5
<b>AFE Capex and Operating Costs</b>	
Drilling Supervision/Month \$	\$8,000
Production Supervision/Month \$	\$800
Justification for Supervision Costs	Exhibit C
Requested Risk Charge	200%
<b>Notice of Hearing</b>	
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
<b>Ownership Determination</b>	
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
<b>Joinder</b>	
Sample Copy of Proposal Letter	Exhibit C-6
List of Interest Owners (ie Exhibit A of JOA)	Exhibit C-3
Chronology of Contact with Non-Joined Working Interests	Exhibit C-4
Overhead Rates In Proposal Letter	Exhibit C-6
Cost Estimate to Drill and Complete	Exhibit C-6
Cost Estimate to Equip Well	Exhibit C-6
Cost Estimate for Production Facilities	Exhibit C-6
<b>Geology</b>	
Summary (including special considerations)	Exhibit D
Spacing Unit Schematic	Exhibit D-2
Gunbarrel/Lateral Trajectory Schematic	Exhibit D-2
Well Orientation (with rationale)	Exhibit D
Target Formation	Exhibit D-5
HSU Cross Section	Exhibit D-5
Depth Severance Discussion	N/A
<b>Forms, Figures and Tables</b>	
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-2
Well Bore Location Map	Exhibit D-2
Structure Contour Map - Subsea Depth	Exhibit D-3
Cross Section Location Map (including wells)	Exhibit D-4
Cross Section (including Landing Zone)	Exhibit D-5
<b>Additional Information</b>	
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):

**Adam G. Rankin**

**Signed Name** (Attorney or Party Representative):



**Date:**

**7-Apr-22**

# COMPULSORY POOLING APPLICATION CHECKLIST


**ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS**

Case: 22461	APPLICANT'S RESPONSE
Date: April 7, 2022	
Applicant	COG Operating LLC
Designated Operator & OGRID (affiliation if applicable)	229137
Applicant's Counsel:	Holland & Hart LLP
Case Title:	APPLICATION OF COG OPERATING LLC FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.
Entries of Appearance/Intervenors:	Cimarex Energy Co.
Well Family	Gin and Tectonic Federal Com
<b>Formation/Pool</b>	
Formation Name(s) or Vertical Extent:	Wolfcamp
Primary Product (Oil or Gas):	Oil
Pooling this vertical extent:	No
Pool Name and Pool Code:	WC-025 G-08 S243217P; Upper Wolfcamp (98248)
Well Location Setback Rules:	Standard
Spacing Unit Size:	639.13 acres, more or less
<b>Spacing Unit</b>	
Type (Horizontal/Vertical)	Horizontal
Size (Acres)	639.13 acres, more or less
Building Blocks:	40 acres
Orientation:	South to North
Description: TRS/County	Lots 1 & 2, S/2 NE/4, SE/4 (E/2 equivalent) of Section 5, Township 24 South, Range 32 East, and the E/2 of Section 32, Township 23 South. Range 32 East.
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes
<b>Other Situations</b>	
Depth Severance: Y/N. If yes, description	N/A
Proximity Tracts: If yes, description	Yes; Gin and Tectonic Federal Com #702H well will be within 330 feet of the line separating the E/2 E/2 and W/2 E/2 to allow inclusion of this acreage in the spacing unit.
Proximity Defining Well: if yes, description	Gin and Tectonic Federal Com #702H well
Applicant's Ownership in Each Tract	Exhibit C-3

<b>Well(s)</b>	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)	
Well #1	<p><b><u>Gin and Tectonic Federal Com #701H well</u></b>  <b>SHL: SE/4 SE/4 (Unit P) of Section 5, Township 24 South, Range 32 East.</b>  <b>BHL: NE/4 NE/4 (Unit A) of Section 32, Township 23 South, Range 32 East.</b></p> <p><b>Completion Target: Wolfcamp formation</b>  <b>Well Orientation: south to north</b>  <b>Completion Location expected to be: Standard</b></p>
Well #2	<p><b><u>Gin and Tectonic Federal Com #702H well</u></b>  <b>SHL: SE/4 SE/4 (Unit P) of Section 5, Township 24 South, Range 32 East.</b>  <b>BHL: NE/4 NE/4 (Unit A) of Section 32, Township 23 South, Range 32 East.</b></p> <p><b>Completion Target: Wolfcamp formation</b>  <b>Well Orientation: south to north</b>  <b>Completion Location expected to be: Standard</b></p>
Well #3	<p><b><u>Gin and Tectonic Federal Com #703H well</u></b>  <b>SHL: SE/4 SE/4 (Unit P) of Section 5, Township 24 South, Range 32 East.</b>  <b>BHL: NW/4 NE/4 (Unit B) of Section 32, Township 23 South, Range 32 East.</b></p> <p><b>Completion Target: Wolfcamp formation</b>  <b>Well Orientation: south to north</b>  <b>Completion Location expected to be: Standard</b></p>
Well #4	<p><b><u>Gin and Tectonic Federal Com #704H well</u></b>  <b>SHL: SW/4 SE/4 (Unit O) of Section 5, Township 24 South, Range 32 East.</b>  <b>BHL: NW/4 NE/4 (Unit B) of Section 32, Township 23 South, Range 32 East.</b></p> <p><b>Completion Target: Wolfcamp formation</b>  <b>Well Orientation: south to north</b>  <b>Completion Location expected to be: Standard</b></p>
Horizontal Well First and Last Take Points	<b>Exhibit C-2</b>
Completion Target (Formation, TVD and MD)	<b>Exhibit C-2, D-9</b>
<b>AFE Capex and Operating Costs</b>	
Drilling Supervision/Month \$	<b>\$8,000</b>
Production Supervision/Month \$	<b>\$800</b>
Justification for Supervision Costs	<b>Exhibit C</b>
Requested Risk Charge	<b>200%</b>



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
<b>Ownership Determination</b>	
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
<b>Joinder</b>	
Sample Copy of Proposal Letter	Exhibit C-6
List of Interest Owners (ie Exhibit A of JOA)	Exhibit C-3
Chronology of Contact with Non-Joined Working Interests	Exhibit C-4
Overhead Rates In Proposal Letter	Exhibit C-6
Cost Estimate to Drill and Complete	Exhibit C-6
Cost Estimate to Equip Well	Exhibit C-6
Cost Estimate for Production Facilities	Exhibit C-6
<b>Geology</b>	
Summary (including special considerations)	Exhibit D
Spacing Unit Schematic	Exhibit D-6
Gunbarrel/Lateral Trajectory Schematic	Exhibit D-6
Well Orientation (with rationale)	Exhibit D
Target Formation	Exhibit D-9
HSU Cross Section	Exhibit D-9
Depth Severance Discussion	N/A
<b>Forms, Figures and Tables</b>	
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-6
Well Bore Location Map	Exhibit D-6
Structure Contour Map - Subsea Depth	Exhibit D-7
Cross Section Location Map (including wells)	Exhibit D-8
Cross Section (including Landing Zone)	Exhibit D-9
<b>Additional Information</b>	

Special Provisions/Stipulations	None
<b>CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.</b>	
<b>Printed Name</b> (Attorney or Party Representative):	<b>Adam G. Rankin</b>
<b>Signed Name</b> (Attorney or Party Representative):	
<b>Date:</b>	<b>7-Apr-22</b>


# COMPULSORY POOLING APPLICATION CHECKLIST

**ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS**

Case: 22462	APPLICANT'S RESPONSE
Date: April 7, 2022	
Applicant	COG Operating LLC
Designated Operator & OGRID (affiliation if applicable)	229137
Applicant's Counsel:	Holland & Hart LLP
Case Title:	APPLICATION OF COG OPERATING LLC FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.
Entries of Appearance/Intervenors:	Cimarex Energy Co.
Well Family	Gin and Tectonic Federal Com
<b>Formation/Pool</b>	
Formation Name(s) or Vertical Extent:	Wolfcamp
Primary Product (Oil or Gas):	Oil
Pooling this vertical extent:	No
Pool Name and Pool Code:	WC-025 G-08 S243217P; Upper Wolfcamp (98248)
Well Location Setback Rules:	Standard
Spacing Unit Size:	639.87 acres, more or less
<b>Spacing Unit</b>	
Type (Horizontal/Vertical)	Horizontal
Size (Acres)	639.87 acres, more or less
Building Blocks:	40 acres
Orientation:	South to North
Description: TRS/County	Lots 3 & 4, S/2NW/4, SW/4 (W/2 equivalent) of Section 5, Township 24 South. Range 32 East and the W/2 of Section 32, Township 23 South, Range 32 East.
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes
<b>Other Situations</b>	
Depth Severance: Y/N. If yes, description	N/A
Proximity Tracts: If yes, description	Yes; Gin and Tectonic Federal Com #707H well will be within 330 feet of the line separating the E/2 W/2 and W/2 W/2 to allow inclusion of this acreage in the spacing unit.
Proximity Defining Well: if yes, description	Gin and Tectonic Federal Com #707H well
Applicant's Ownership in Each Tract	Exhibit C-3

<b>Well(s)</b>	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)	
Well #1	<p><b><u>Gin and Tectonic Federal Com #705H well</u></b>  <b>SHL: SE/4 SW/4 (Unit N) of Section 5, Township 24 South, Range 32 East.</b>  <b>BHL: NE/4 NW/4 (Unit C) of Section 32, Township 23 South, Range 32 East.</b></p> <p><b>Completion Target: Wolfcamp formation</b>  <b>Well Orientation: south to north</b>  <b>Completion Location expected to be: Standard</b></p>
Well #2	<p><b><u>Gin and Tectonic Federal Com #706H well</u></b>  <b>SHL: SW/4 SW/4 (Unit M) of Section 5, Township 24 South, Range 32 East.</b>  <b>BHL: NE/4 NW/4 (Unit C) of Section 32, Township 23 South, Range 32 East.</b></p> <p><b>Completion Target: Wolfcamp formation</b>  <b>Well Orientation: south to north</b>  <b>Completion Location expected to be: Standard</b></p>
Well #3	<p><b><u>Gin and Tectonic Federal Com #707H well</u></b>  <b>SHL: SW/4 SW/4 (Unit M) of Section 5, Township 24 South, Range 32 East.</b>  <b>BHL: NW/4 NW/4 (Unit D) of Section 32, Township 23 South, Range 32 East.</b></p> <p><b>Completion Target: Wolfcamp formation</b>  <b>Well Orientation: south to north</b>  <b>Completion Location expected to be: Standard</b></p>
Well #4	<p><b><u>Gin and Tectonic Federal Com #708H well</u></b>  <b>SHL: SW/4 SW/4 (Unit M) of Section 5, Township 24 South, Range 32 East.</b>  <b>BHL: NW/4 NW/4 (Unit D) of Section 32, Township 23 South, Range 32 East.</b></p> <p><b>Completion Target: Wolfcamp formation</b>  <b>Well Orientation: south to north</b>  <b>Completion Location expected to be: Standard</b></p>
Horizontal Well First and Last Take Points	<b>Exhibit C-2</b>
Completion Target (Formation, TVD and MD)	<b>Exhibit C-2, D-9</b>
<b>AFE Capex and Operating Costs</b>	
Drilling Supervision/Month \$	<b>\$8,000</b>
Production Supervision/Month \$	<b>\$800</b>
Justification for Supervision Costs	<b>Exhibit C</b>
Requested Risk Charge	<b>200%</b>
Notice of Hearing	

Proposed Notice of Hearing	<b>Exhibit B</b>
Proof of Mailed Notice of Hearing (20 days before hearing)	<b>Exhibit E</b>
Proof of Published Notice of Hearing (10 days before hearing)	<b>Exhibit F</b>
<b>Ownership Determination</b>	
Land Ownership Schematic of the Spacing Unit	<b>Exhibit C-3</b>
Tract List (including lease numbers and owners)	<b>Exhibit C-3</b>
Pooled Parties (including ownership type)	<b>Exhibit C-3</b>
Unlocatable Parties to be Pooled	<b>N/A</b>
Ownership Depth Severance (including percentage above & below)	<b>N/A</b>
<b>Joinder</b>	
Sample Copy of Proposal Letter	<b>Exhibit C-6</b>
List of Interest Owners (ie Exhibit A of JOA)	<b>Exhibit C-3</b>
Chronology of Contact with Non-Joined Working Interests	<b>Exhibit C-4</b>
Overhead Rates In Proposal Letter	<b>Exhibit C-6</b>
Cost Estimate to Drill and Complete	<b>Exhibit C-6</b>
Cost Estimate to Equip Well	<b>Exhibit C-6</b>
Cost Estimate for Production Facilities	<b>Exhibit C-6</b>
<b>Geology</b>	
Summary (including special considerations)	<b>Exhibit D</b>
Spacing Unit Schematic	<b>Exhibit D-6</b>
Gunbarrel/Lateral Trajectory Schematic	<b>Exhibit D-6</b>
Well Orientation (with rationale)	<b>Exhibit D</b>
Target Formation	<b>Exhibit D-9</b>
HSU Cross Section	<b>Exhibit D-9</b>
Depth Severance Discussion	<b>N/A</b>
<b>Forms, Figures and Tables</b>	
C-102	<b>Exhibit C-2</b>
Tracts	<b>Exhibit C-3</b>
Summary of Interests, Unit Recapitulation (Tracts)	<b>Exhibit C-3</b>
General Location Map (including basin)	<b>Exhibit D-6</b>
Well Bore Location Map	<b>Exhibit D-6</b>
Structure Contour Map - Subsea Depth	<b>Exhibit D-7</b>
Cross Section Location Map (including wells)	<b>Exhibit D-8</b>
Cross Section (including Landing Zone)	<b>Exhibit D-9</b>
<b>Additional Information</b>	

Special Provisions/Stipulations	None
<b>CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.</b>	
<b>Printed Name</b> (Attorney or Party Representative):	<b>Adam G. Rankin</b>
<b>Signed Name</b> (Attorney or Party Representative):	
<b>Date:</b>	<b>7-Apr-22</b>

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

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

**CASE NO. 22460**

**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 a portion of the Bone Spring formation, from a depth of 10,000 feet to the base of the Bone Spring formation, underlying a standard 639.87-acre, more or less, horizontal spacing unit comprised of Lots 3 & 4, S/2 NW/4, SW/4 (W/2 equivalent) of Section 5, Township 24 South, Range 32 East and the W/2 of Section 32, Township 23 South, Range 32 East, N.M.P.M., Lea 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 **Gin and Tectonic Federal Com #504H well**, to be drilled from a surface hole location in SE/4 SW/4 (Unit N) of Section 5 to a bottom hole location in the NE/4 NW/4 (Unit C) of Section 32; and
- the **Gin and Tectonic Federal Com #505H well** and the **Gin and Tectonic Federal Com #506H well**, to be drilled from a surface hole location in

**BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico  
Exhibit No. B  
Submitted by: COG OPERATING LLC  
Hearing Date: April 7, 2022  
Case Nos. 22460-22462**

SW/4 SW/4 (Unit M) of Section 5 to a bottom hole location in the NW/4 NW/4 (Unit D) of Section 32.

3. The completed interval for the proposed **Gin and Tectonic Federal Com #505H well** will be within 330' of the line separating the E/2 W/2 and W/2 W/2 to allow inclusion of this acreage in the spacing unit.

4. A depth severance exists in the Bone Spring formation within the proposed the horizontal spacing unit. As such, COG seeks to pool only a portion of the Bone Spring formation, from a depth of 10,000 feet, to the base of the Bone Spring formation, as defined in the Assignment of Undivided Interest in Oil and Gas, dated March 1, 1996, that covers the SE/4 NW/4 of Section 32, Township 23 South, Range 32 East, and in the Gamma Ray-Neutron Log of the Falcon 32 State #001H Well (API No. 30-025-33001). COG will provide notice of this hearing to the vertical offset parties within the pool who are not subject to this pooling application.

5. 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.

6. The pooling of interests will avoid the drilling of unnecessary wells, will prevent waste, and will protect correlative rights.

7. 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 January 6, 2022, and, after notice and hearing as required by law, the Division enter an order:



- A. Pooling all uncommitted interests in the horizontal spacing unit;
- B. Approving the initial wells in the horizontal spacing unit;
- C. Designating Applicant as the operator of this spacing unit and the horizontal wells to be drilled thereon;
- D. Authorizing Applicant to recover its costs of drilling, equipping, and completing the wells;
- E. Approving the actual operating charges and costs of supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedures; and
- F. Imposing a 200% charge for the risk assumed by Applicant in drilling and completing the wells against any working interest owner who does not voluntarily participate in the drilling of the wells.

Respectfully submitted,

HOLLAND & HART LLP



By: \_\_\_\_\_  
Michael H. Feldewert  
Adam G. Rankin  
Julia Broggi  
Kaitlyn A. Luck  
Post Office Box 2208  
Santa Fe, New Mexico 87504-2208  
(505) 988-4421  
(505) 983-6043 Facsimile  
[mfeldewert@hollandhart.com](mailto:mfeldewert@hollandhart.com)  
[agrarkin@hollandhart.com](mailto:agrarkin@hollandhart.com)  
[jbroggi@hollandhart.com](mailto:jbroggi@hollandhart.com)  
[kaluck@hollandhart.com](mailto:kaluck@hollandhart.com)

**ATTORNEYS FOR COG OPERATING LLC**

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

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

CASE NO. 22461

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 639.13-acre, more or less, horizontal spacing unit comprised of Lots 1 & 2, S/2 NE/4, SE/4 (E/2 equivalent) of Section 5, Township 24 South, Range 32 East, and the E/2 of Section 32, Township 23 South, Range 32 East, N.M.P.M., Lea 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 **Gin and Tectonic Federal Com #701H well**, and the **Gin and Tectonic Federal Com #702H well**, to be drilled from a surface hole location in SE/4 SE/4 (Unit P) of Section 5 to a bottom hole location in the NE/4 NE/4 (Unit A) of Section 32;

- the **Gin and Tectonic Federal Com #703H well**, to be drilled from a surface hole location in SE/4 SE/4 (Unit P) of Section 5 to a bottom hole location in the NW/4 NE/4 (Unit B) of Section 32; and
  - the **Gin and Tectonic Federal Com #704H well**, to be drilled from a surface hole location in SW/4 SE/4 (Unit O) of Section 5 to a bottom hole location in the NW/4 NE/4 (Unit B) of Section 32.
3. The completed interval for the proposed **Gin and Tectonic Federal Com #702H well** will be within 330' of the line separating the E/2 E/2 and W/2 E/2 to allow inclusion of this acreage in the spacing unit.
  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 January 6, 2022, and, after notice and hearing as required by law, the Division enter an order:

- A. Pooling all uncommitted interests in the horizontal spacing unit;
- B. Approving the initial wells in the horizontal spacing unit;

- C. Designating Applicant as the operator of this spacing unit and the horizontal wells to be drilled thereon;
- D. Authorizing Applicant to recover its costs of drilling, equipping, and completing the wells;
- E. Approving the actual operating charges and costs of supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedures; and
- F. Imposing a 200% charge for the risk assumed by Applicant in drilling and completing the wells against any working interest owner who does not voluntarily participate in the drilling of the wells.

Respectfully submitted,

HOLLAND & HART LLP

By: 

Michael H. Feldewert  
Adam G. Rankin  
Julia Broggi  
Kaitlyn A. Luck  
Post Office Box 2208  
Santa Fe, New Mexico 87504-2208  
(505) 988-4421  
(505) 983-6043 Facsimile  
mfeldewert@hollandhart.com  
agrarkin@hollandhart.com  
jbroggi@hollandhart.com  
kaluck@hollandhart.com

**ATTORNEYS FOR COG OPERATING LLC**

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

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

CASE NO. 22462

**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 639.87-acre, more or less, horizontal spacing unit comprised of Lots 3 & 4, S/2NW/4, SW/4 (W/2 equivalent) of Section 5, Township 24 South, Range 32 East and the W/2 of Section 32, Township 23 South, Range 32 East, N.M.P.M., Lea 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 **Gin and Tectonic Federal Com #705H well**, to be drilled from a surface hole location in SE/4 SW/4 (Unit N) of Section 5 to a bottom hole location in the NE/4 NW/4 (Unit C) of Section 32;
  - the **Gin and Tectonic Federal Com #706H well** to be drilled from a surface hole location in SW/4 SW/4 (Unit M) of Section 5 to a bottom hole location in the NE/4 NW/4 (Unit C) of Section 32; and

- the **Gin and Tectonic Federal Com #707H well**, and the **Gin and Tectonic Federal Com #708H well**, to be drilled from a surface hole location in SW/4 SW/4 (Unit M) of Section 5 to a bottom hole location in the NW/4 NW/4 (Unit D) of Section 32.
3. The completed interval for the proposed **Gin and Tectonic Federal Com #707H well** will be within 330' of the line separating the E/2 W/2 and W/2 W/2 to allow inclusion of this acreage in the spacing unit.
  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 January 6, 2022, and, after notice and hearing as required by law, the Division enter an order:

- A. Pooling all uncommitted interests in the horizontal spacing unit;
- B. Approving the initial wells in the horizontal spacing unit;
- C. Designating Applicant as the operator of this spacing unit and the horizontal wells to be drilled thereon;

- D. Authorizing Applicant to recover its costs of drilling, equipping, and completing the wells;
- E. Approving the actual operating charges and costs of supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedures; and
- F. Imposing a 200% charge for the risk assumed by Applicant in drilling and completing the wells against any working interest owner who does not voluntarily participate in the drilling of the wells.

Respectfully submitted,

HOLLAND & HART LLP



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

Michael H. Feldewert  
Adam G. Rankin  
Julia Broggi  
Kaitlyn A. Luck  
Post Office Box 2208  
Santa Fe, New Mexico 87504-2208  
(505) 988-4421  
(505) 983-6043 Facsimile  
[mfeldewert@hollandhart.com](mailto:mfeldewert@hollandhart.com)  
[agrarkin@hollandhart.com](mailto:agrarkin@hollandhart.com)  
[jbroggi@hollandhart.com](mailto:jbroggi@hollandhart.com)  
[kaluck@hollandhart.com](mailto:kaluck@hollandhart.com)

ATTORNEYS FOR COG OPERATING LLC

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

**APPLICATIONS OF COG OPERATING LLC  
FOR COMPULSORY POOLING,  
LEA COUNTY, NEW MEXICO.**

**CASE NOS. 22460, 22461, 22462**

**AFFIDAVIT OF BRIAN DART**

Brian Dart, of lawful age and being first duly sworn, states the following:

1. My name is Brian Dart and I am a Land Negotiator with COG Operating LLC (“COG”), now a wholly-owned subsidiary of ConocoPhillips Company.

2. I have not previously testified before the Oil Conservation Division. My resume is attached as **COG Exhibit C-1**. I graduated from the University of Oklahoma in 2004 with a Bachelors degree in Business Administration (BBA). After graduating, I briefly worked as a field Landman before joining ConocoPhillips. I joined ConocoPhillips as a Property Maintenance Analyst in November of 2004 and then become a Landman in 2006. I am a member of the American Association of Professional Landman, Houston Association of Professional Landmen, and the Permian Basin Landman’s Association. I believe that the foregoing education and work experience qualify me to testify as an expert in petroleum land matters.

3. I am familiar with the applications filed by COG in these consolidated cases and the status of the lands in the subject area.

4. In **Case No. 22460**, COG seeks an order pooling all uncommitted interests in a portion of the Bone Spring formation, from a depth of 10,000 feet to the base of the Bone Spring formation, underlying a standard 639.87-acre, more or less, horizontal spacing unit comprised of Lots 3 & 4, S/2 NW/4, SW/4 (W/2 equivalent) of Section 5, Township 24 South. Range 32 East

**BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico  
Exhibit No. C  
Submitted by: COG OPERATING LLC  
Hearing Date: April 7, 2022  
Case Nos. 22460-22462**



and the W/2 of Section 32, Township 23 South, Range 32 East, N.M.P.M., Lea County, New Mexico. The spacing unit will be dedicated to the proposed initial **Gin and Tectonic Federal Com #504H well**, which will be drilled from a surface hole location in SE/4 SW/4 (Unit N) of Section 5 to a bottom hole location in the NE/4 NW/4 (Unit C) of Section 32; and the **Gin and Tectonic Federal Com #505H well** and the **Gin and Tectonic Federal Com #506H well**, which will be drilled from a surface hole location in SW/4 SW/4 (Unit M) of Section 5 to a bottom hole location in the NW/4 NW/4 (Unit D) of Section 32. The completed interval for the proposed **Gin and Tectonic Federal Com #505H well** will be within 330 feet of the quarter-quarter section line separating the E/2 W/2 and W/2 W/2 to allow inclusion of this acreage in the spacing unit.

5. In **Case No. 22461**, COG seeks an order pooling all uncommitted interests in the Wolfcamp formation underlying a standard 639.13-acre, more or less, horizontal spacing unit comprised of Lots 1 & 2, S/2 NE/4, SE/4 (E/2 equivalent) of Section 5, Township 24 South, Range 32 East, and the E/2 of Section 32, Township 23 South, Range 32 East, N.M.P.M., Lea County, New Mexico. The spacing unit will be dedicated to the proposed **Gin and Tectonic Federal Com #701H well**, and the **Gin and Tectonic Federal Com #702H well**, which will be drilled from a surface hole location in SE/4 SE/4 (Unit P) of Section 5 to a bottom hole location in the NE/4 NE/4 (Unit A) of Section 32; the **Gin and Tectonic Federal Com #703H well**, which will be drilled from a surface hole location in SE/4 SE/4 (Unit P) of Section 5 to a bottom hole location in the NW/4 NE/4 (Unit B) of Section 32; and the **Gin and Tectonic Federal Com #704H well**, which will be drilled from a surface hole location in SW/4 SE/4 (Unit O) of Section 5 to a bottom hole location in the NW/4 NE/4 (Unit B) of Section 32. The completed interval for the proposed **Gin and Tectonic Federal Com #702H well** will be within 330 feet of

the quarter-quarter section line separating the E/2 E/2 and W/2 E/2 to allow inclusion of this acreage in the spacing unit.

6. In **Case No. 22462**, COG seeks an order pooling all uncommitted interests in the Wolfcamp formation underlying a standard 639.87-acre, more or less, horizontal spacing unit comprised of Lots 3 & 4, S/2NW/4, SW/4 (W/2 equivalent) of Section 5, Township 24 South, Range 32 East and the W/2 of Section 32, Township 23 South, Range 32 East, N.M.P.M., Lea County, New Mexico. The spacing unit will be dedicated to the **Gin and Tectonic Federal Com #705H well**, to be drilled from a surface hole location in SE/4 SW/4 (Unit N) of Section 5 to a bottom hole location in the NE/4 NW/4 (Unit C) of Section 32; the **Gin and Tectonic Federal Com #706H well**, which will be drilled from a surface hole location in SW/4 SW/4 (Unit M) of Section 5 to a bottom hole location in the NE/4 NW/4 (Unit C) of Section 32; and the **Gin and Tectonic Federal Com #707H well**, and the **Gin and Tectonic Federal Com #708H well**, which will be drilled from a surface hole location in SW/4 SW/4 (Unit M) of Section 5 to a bottom hole location in the NW/4 NW/4 (Unit D) of Section 32. The completed interval for the proposed **Gin and Tectonic Federal Com #707H well** will be within 330 feet of the quarter-quarter section line separating the E/2 W/2 and W/2 W/2 to allow inclusion of this acreage in the spacing unit.

7. **COG Exhibit C-2** contains draft Form C-102s for each of the proposed initial wells in each of these standard spacing units for these cases. These forms demonstrate that the completed interval for each well will meet the statewide setback requirements for horizontal oil wells.

8. For **Case No. 22460**, COG understands that these Bone Spring wells will be placed in the Mesa Verde; Bone Spring Pool (Pool code 96229), as reflected on the C-102s.

9. For **Case Nos. 22461 and 22462**, COG understands that these Wolfcamp wells will be placed in the WC-025 G-08 S243217P; Upper Wolfcamp Pool (Pool Code 98248), as reflected on the C-102s.

10. In **Case No. 22460**, a depth severance exists in the Bone Spring formation within the proposed the horizontal spacing unit. As such, COG seeks to pool only a portion of the Bone Spring formation, from a depth of 10,000 feet, to the base of the Bone Spring formation, as defined in the Assignment of Undivided Interest in Oil and Gas, dated March 1, 1996, that covers the SE/4 NW/4 of Section 32, Township 23 South, Range 32 East, and in the Gamma Ray-Neutron Log of the Falcon 32 State #001H Well (API No. 30-025-33001).

11. In **Case Nos. 22461 and 22462**, no ownership depth severances exist within the proposed spacing units.

12. **COG Exhibit C-3** identifies the tracts of land comprising each of the proposed horizontal spacing units in each case. The subject acreage is comprised of federal and state lands, as reflected on the exhibit for each case.

13. **COG Exhibit C-3** also identifies the ownership interests in each spacing unit by tract and on a unit-wide basis in each case. COG is seeking to pool all uncommitted interest owners in each case identified in this exhibit.

14. All interest owners that COG seeks to pool are locatable. COG has conducted a diligent search of public records in Lea County, including phone directors and computer databases.

COG has made a diligent effort to reach voluntary agreement with the uncommitted interest owners, as reflected in **Exhibit C-4**, which is a summary of COG's chronology of contacts.

15. COG recently reached voluntary agreement with Cimarex Energy Company. Cimarex prepared a letter, attached as **COG Exhibit C-5**, stating that it supports COG in these cases and supports COG being awarded operatorship by the Division.

16. In my opinion, COG has made a good-faith effort to obtain the voluntary joinder of the parties it is seeking to pool. If COG reaches agreement with any of the parties it is seeking to pool before the Division enters an order, I will inform the Division that COG is no longer seeking to pool that party.

17. **COG Exhibit C-6** contains a sample of the well proposal letters and AFEs for each well that were sent to the working interest owners COG seeks to pool. The costs reflected in these AFEs are consistent with what other operators have incurred for drilling similar horizontal wells in the area in these formations.

18. COG requests that the overhead and administrative costs for drilling and producing the proposed wells be set at \$8,000 per month while drilling and \$800 per month while producing. These costs are consistent with what other operators are charging in this area for similar wells.

19. COG provided the law firm of Holland & Hart LLP with the names and addresses of the parties that COG seeks to pool and instructed that they be notified of this hearing.

20. **COG Exhibits C-1 through C-6** were either prepared by me or compiled under my direction and supervision.

FURTHER AFFIANT SAYETH NAUGHT.

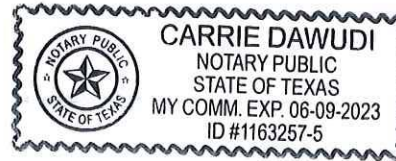
Brian Dart  
BRIAN DART

STATE OF TEXAS            )  
  )  
COUNTY OF HARRIS        )

SUBSCRIBED and SWORN to before me this 1<sup>st</sup> day of April 2022 by  
Brian Dart.

Carrie Dawudi  
NOTARY PUBLIC

My Commission Expires:  
6/9/2023





**DISTRICT I**  
1485 N. FRENCH DR., BOBBS, NM 88240  
Phone: (878) 895-8161 Fax: (878) 895-0780

**DISTRICT II**  
811 S. FIRST ST., ARTESIA, NM 88210  
Phone: (878) 748-1283 Fax: (878) 748-9720

**DISTRICT III**  
1000 RIO BRAZOS RD., AZTEC, NM 87410  
Phone: (805) 334-6178 Fax: (805) 334-6170

**DISTRICT IV**  
1820 S. ST. FRANCIS DR., SANTA FE, NM 87505  
Phone: (805) 478-3460 Fax: (805) 478-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-025-</b>	Pool Code <b>96229</b>	Pool Name <b>Mesa verde; Bone Spring</b>
Property Code	Property Name <b>GIN AND TECTONIC FEDERAL COM</b>	Well Number <b>504H</b>
OGRID No. <b>229137</b>	Operator Name <b>COG OPERATING, LLC</b>	Elevation <b>3590.1'</b>

**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	5	24-S	32-E		250	SOUTH	1325	WEST	LEA

**Bottom Hole Location If Different From Surface**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	32	23-S	32-E		50	NORTH	2178	WEST	LEA

Dedicated Acres <b>639.87</b>	Joint or Infill	Consolidation Code	Order No.
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**NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION**

**STATE**

**FEE**

GRID AZ. - 35947'23"  
HORZ. DIST. - 10403.3'

SECTION 32  
SECTION 5

LOT 2  
LOT 1

LOT 4  
LOT 3  
LOT 2  
LOT 1

39.57 Ac  
39.32 Ac  
39.51 Ac  
39.64 Ac

GRID AZ. TO FTP  
99°11'46"

250'  
1325'  
50'

**OPERATOR CERTIFICATION**

I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Mayte Reyes* 11-2021  
Signature Date

**Mayte Reyes**  
Printed Name

[mreyes1@concho.com](mailto:mreyes1@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.

MAY 11, 2020  
Date of Survey

Signature & Seal of Professional Surveyor

*Chad Harcrow* 5/20/20  
Certificate No. CHAD HARCROW 17777  
W.O. # 20-710 DRAWN BY: AH

**NAD 83 NME PROPOSED BOTTOM HOLE LOCATION**  
Y=461855.2 N  
X=737661.3 E  
LAT.=32.268118' N  
LONG.=103.698157' W

**NAD 83 NME SURFACE LOCATION**  
Y=451589.6 N  
X=736849.0 E  
LAT.=32.239913' N  
LONG.=103.700980' W

As per LR2000 Lot 1: 39.47 Lot 2: 39.66 Lot 3: 39.84 Lot 4: 40.03

**DISTRICT I**  
1025 N. FRENCH DR., HOBBS, NM 88240  
Phone: (876) 393-8101 Fax: (876) 393-8720

**DISTRICT II**  
811 S. FIRST ST., ARTESIA, NM 88210  
Phone: (876) 746-1283 Fax: (876) 746-8720

**DISTRICT III**  
1000 RIO BRAZOS RD., AZTEC, NM 87410  
Phone: (606) 334-0176 Fax: (606) 334-6170

**DISTRICT IV**  
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505  
Phone: (505) 476-3480 Fax: (505) 476-3488

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

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

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-025-</b>	Pool Code <b>96229</b>	Pool Name <b>Mesa Verde; Bone Spring</b>
Property Code	Property Name <b>GIN AND TECTONIC FEDERAL COM</b>	Well Number <b>505H</b>
OGRID No. <b>229137</b>	Operator Name <b>COG OPERATING, LLC</b>	Elevation <b>3587.4'</b>

**Surface Location**

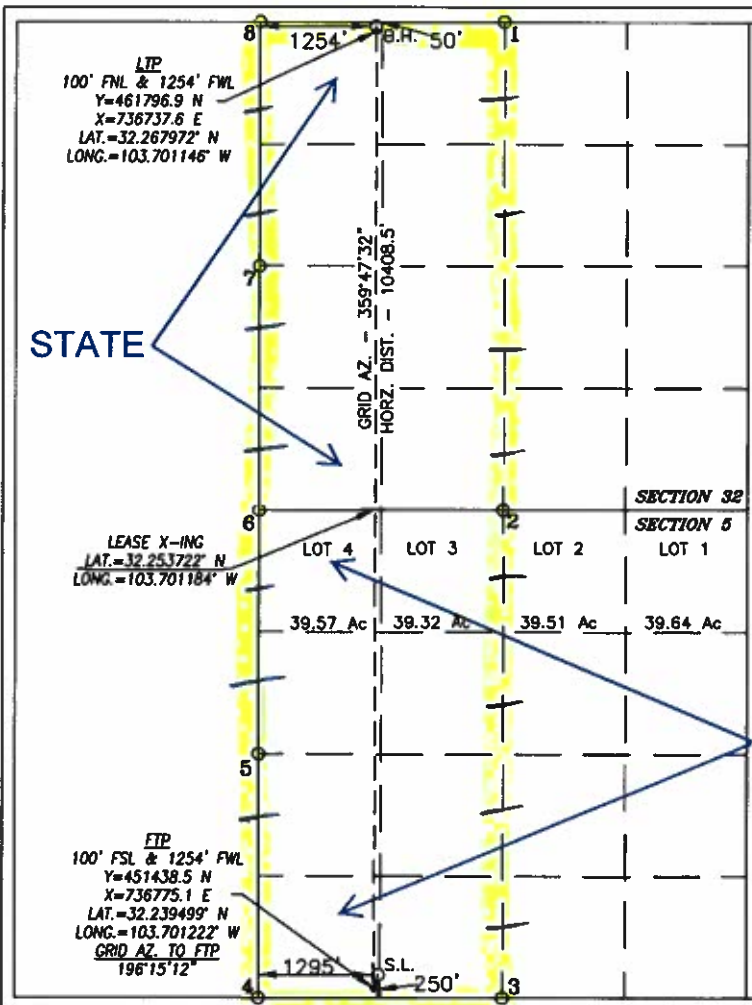
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	5	24-S	32-E		250	SOUTH	1295	WEST	LEA

**Bottom Hole Location If Different From Surface**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	32	23-S	32-E		50	NORTH	1254	WEST	LEA

Dedicated Acres <b>639.87</b>	Joint or Infill	Consolidation Code	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**



NAD 83 NME  
PROPOSED BOTTOM HOLE LOCATION  
Y=461846.9 N  
X=736737.4 E  
LAT.=32.268110° N  
LONG.=103.701146° W

POINT LEGEND	
1	Y=461909.3 N X=738118.6 E
2	Y=456623.7 N X=738148.9 E
3	Y=451358.5 N X=738151.9 E
4	Y=451320.3 N X=735518.6 E
5	Y=453971.6 N X=735569.2 E
6	Y=456603.0 N X=735510.7 E
7	Y=459243.2 N X=735500.1 E
8	Y=461885.7 N X=735483.1 E

**NMNM120906**

NAD 83 NME  
SURFACE LOCATION  
Y=451589.2 N  
X=736819.0 E  
LAT.=32.239913° N  
LONG.=103.701077° W

**OPERATOR CERTIFICATION**  
I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Mayte Reyes* 1/3-2021  
Signature Date

**Mayte Reyes**  
Printed Name  
[mreyes1@concho.com](mailto:mreyes1@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.

MAY 11, 2020  
Date of Survey

Signature & Seal of Professional Surveyor

**CHAD L. HARCROW**  
NEW MEXICO  
LICENSED PROFESSIONAL SURVEYOR  
17777

*Chad Harcrow* 5/20/20  
Certificate No. CHAD HARCROW 17777  
W.O. # 20-709 DRAWN BY: AH

As per LR2000 Lot 1: 39.47 Lot 2: 39.66 Lot 3: 39.84 Lot 4: 40.03



**DISTRICT I**  
1825 N. FRENCH DR., HOHNS, NM 86240  
Phone: (878) 863-8161 Fax: (878) 963-9720

**DISTRICT II**  
511 S. FIRST ST., ARTESIA, NM 88210  
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**DISTRICT III**  
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**DISTRICT IV**  
1520 S. ST. FRANCIS DR., SANTA FE, NM 87505  
Phone: (505) 476-3480 Fax: (505) 476-3488

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

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

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-025-</b>	Pool Code <b>96229</b>	Pool Name <b>Mesa Verde; Bone Spring</b>
Property Code	Property Name <b>GIN AND TECTONIC FEDERAL COM</b>	Well Number <b>506H</b>
OGRID No. <b>229137</b>	Operator Name <b>COG OPERATING, LLC</b>	Elevation <b>3588.0'</b>

**Surface Location**

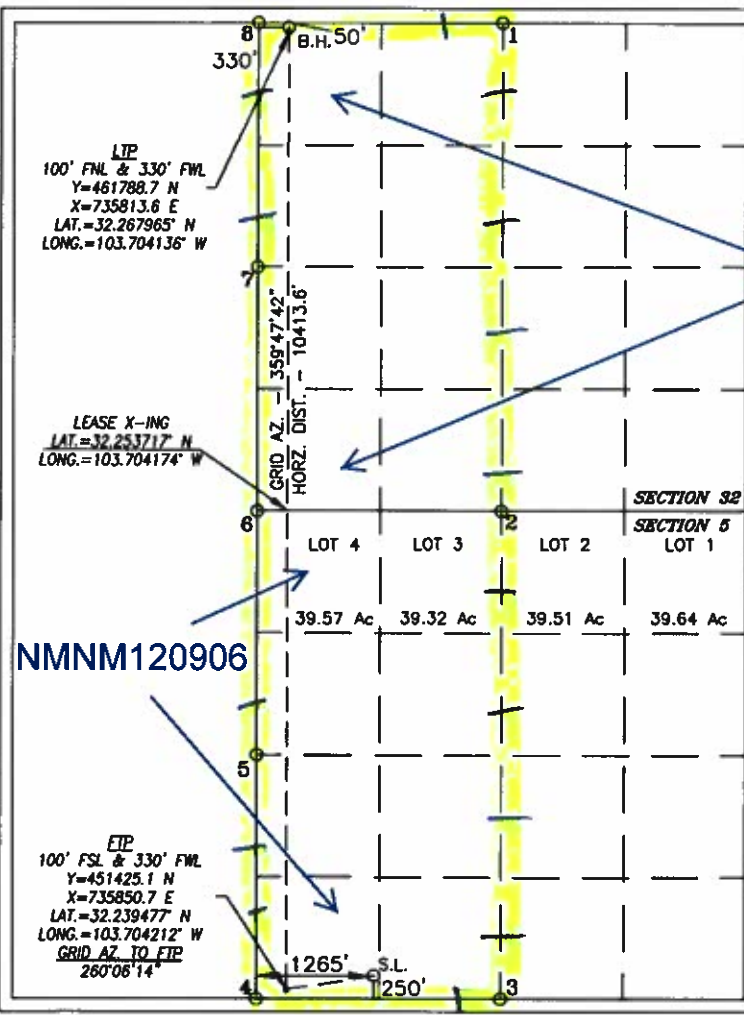
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	5	24-S	32-E		250	SOUTH	1265	WEST	LEA

**Bottom Hole Location If Different From Surface**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	32	23-S	32-E		50	NORTH	330	WEST	LEA

Dedicated Acres <b>639.87</b>	Joint or Infill	Consolidation Code	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**



**NAD 83 NME  
PROPOSED BOTTOM  
HOLE LOCATION**  
Y=461838.7 N  
X=735813.4 E  
LAT.=32.268102° N  
LONG.=103.704135° W

**STATE**

POINT LEGEND	
1	Y=461908.3 N X=736116.6 E
2	Y=456623.7 N X=738148.9 E
3	Y=461356.5 N X=736151.9 E
4	Y=451320.3 N X=735516.6 E
5	Y=453971.6 N X=735599.2 E
6	Y=456603.0 N X=735510.7 E
7	Y=459243.2 N X=735500.1 E
8	Y=461885.7 N X=735483.1 E

**NAD 83 NME  
SURFACE LOCATION**  
Y=451588.8 N  
X=736789.0 E  
LAT.=32.239912° N  
LONG.=103.701174° W

**OPERATOR CERTIFICATION**  
I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unless 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Mayte Reyes* 11/3/2021  
Signature Date  
**Mayte Reyes**  
Printed Name  
**mreyes1@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.

MAY 11, 2020  
Date of Survey

Signature & Seal of Professional Surveyor

*Chad Harcrow* 4/29/20  
Certificate No. CHAD HARCROW 17777  
W.O. #20-708 DRAWN BY: WN

As per LR2000 Lot 1: 39.47 Lot 2: 39.66 Lot 3: 39.84 Lot 4: 40.03

**DISTRICT I**  
 1625 N. FRANCE DR., HOBBS, NM 88240  
 Phone: (575) 593-6161 Fax: (575) 593-9750

**DISTRICT II**  
 811 S. FIRST ST., ARTESIA, NM 88210  
 Phone: (575) 748-1283 Fax: (575) 748-9720

**DISTRICT III**  
 1000 RIO BRAZOS RD., AZTEC, NM 87410  
 Phone: (505) 334-6178 Fax: (505) 334-6170

**DISTRICT IV**  
 1220 S. ST. FRANCIS DR., SANTA FE, NM 87505  
 Phone: (505) 478-3480 Fax: (505) 478-3488

State of New Mexico  
 Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
 1220 SOUTH ST. FRANCIS DR.  
 Santa Fe, New Mexico 87505

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

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-025-</b>	Pool Code <b>98248</b>	Pool Name <b>WC-025 G-08 S243217P; Upper Wolfcamp</b>
Property Code	Property Name <b>GIN AND TECTONIC FEDERAL COM</b>	Well Number <b>701H</b>
OGRID No. <b>229137</b>	Operator Name <b>COG OPERATING, LLC</b>	Elevation <b>3644.9'</b>

**Surface Location**

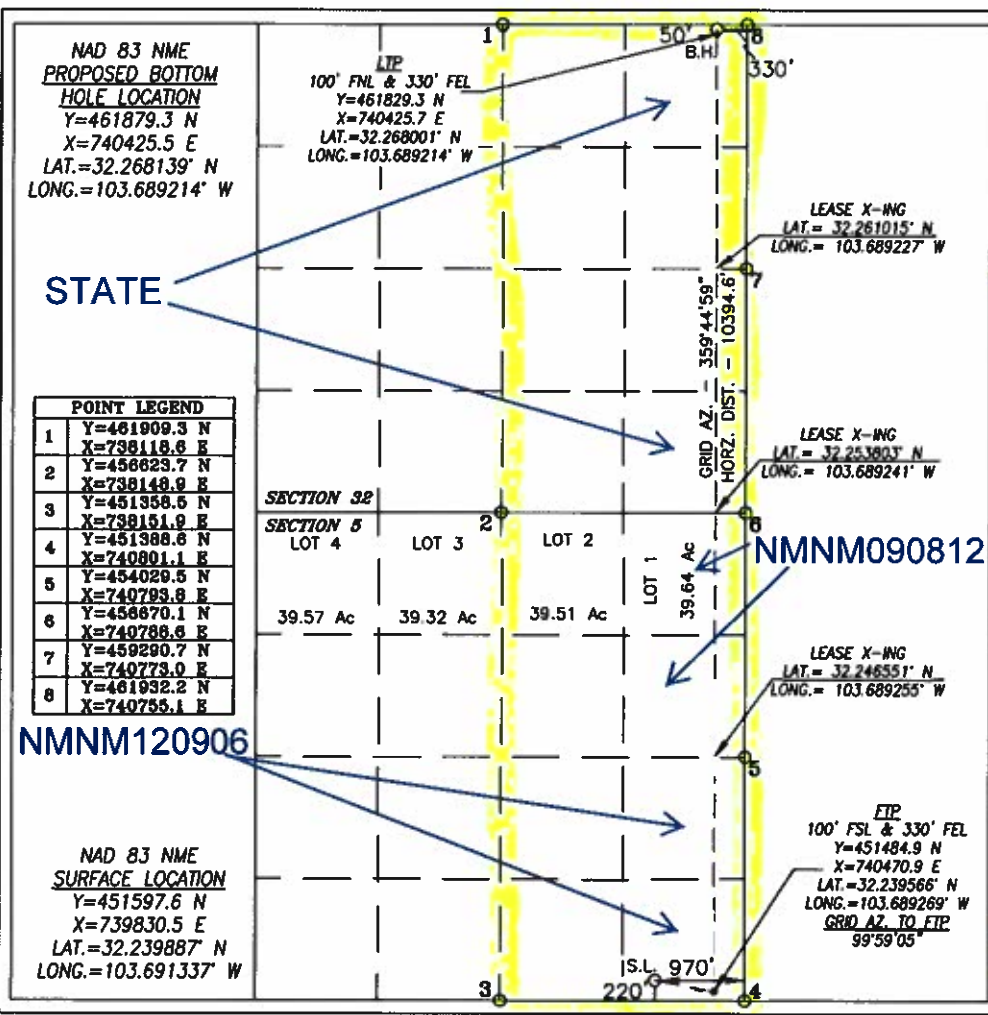
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	5	24-S	32-E		220	SOUTH	970	EAST	LEA

**Bottom Hole Location If Different From Surface**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	32	23-S	32-E		50	NORTH	330	EAST	LEA

Dedicated Acres <b>639.13</b>	Joint or Infill	Consolidation Code	Order No.
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**NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION**



**OPERATOR CERTIFICATION**  
 I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Mayte Reyes*  
 Signature Date

**Mayte Reyes**  
 Printed Name

**mreyes1@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.

**MAY 8, 2020**  
 Date of Survey

Signature & Seal of Professional Surveyor

**CHAD L. HARCROW**  
 NEW MEXICO  
 LICENSED PROFESSIONAL SURVEYOR  
 17777

*Chad Harcrow*  
 Signature Date 5/20/20

Certificate No. **CHAD HARCROW 17777**  
 W.O. # 20-713 DRAWN BY: DS

As per LR2000 Lot 1: 39.47 Lot 2: 39.66 Lot 3: 39.84 Lot 4: 40.03

**DISTRICT I**  
1635 N. FRANK DR., HOHES, NM 88240  
Phone: (575) 583-5181 Fax: (575) 583-0720

**DISTRICT II**  
811 S. FIRST ST., ARTESIA, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

**DISTRICT III**  
1000 RIO BRAZOS RD., AZTEC, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

**DISTRICT IV**  
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505  
Phone: (505) 476-3480 Fax: (505) 476-3482

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

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

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-025-</b>	Pool Code <b>98248</b>	Pool Name <b>WC-025 G-08 S243217P; Upper Wolfcamp</b>
Property Code	Property Name <b>GIN AND TECTONIC FEDERAL COM</b>	Well Number <b>702H</b>
OGRID No. <b>229137</b>	Operator Name <b>COG OPERATING, LLC</b>	Elevation <b>3645.4'</b>

**Surface Location**

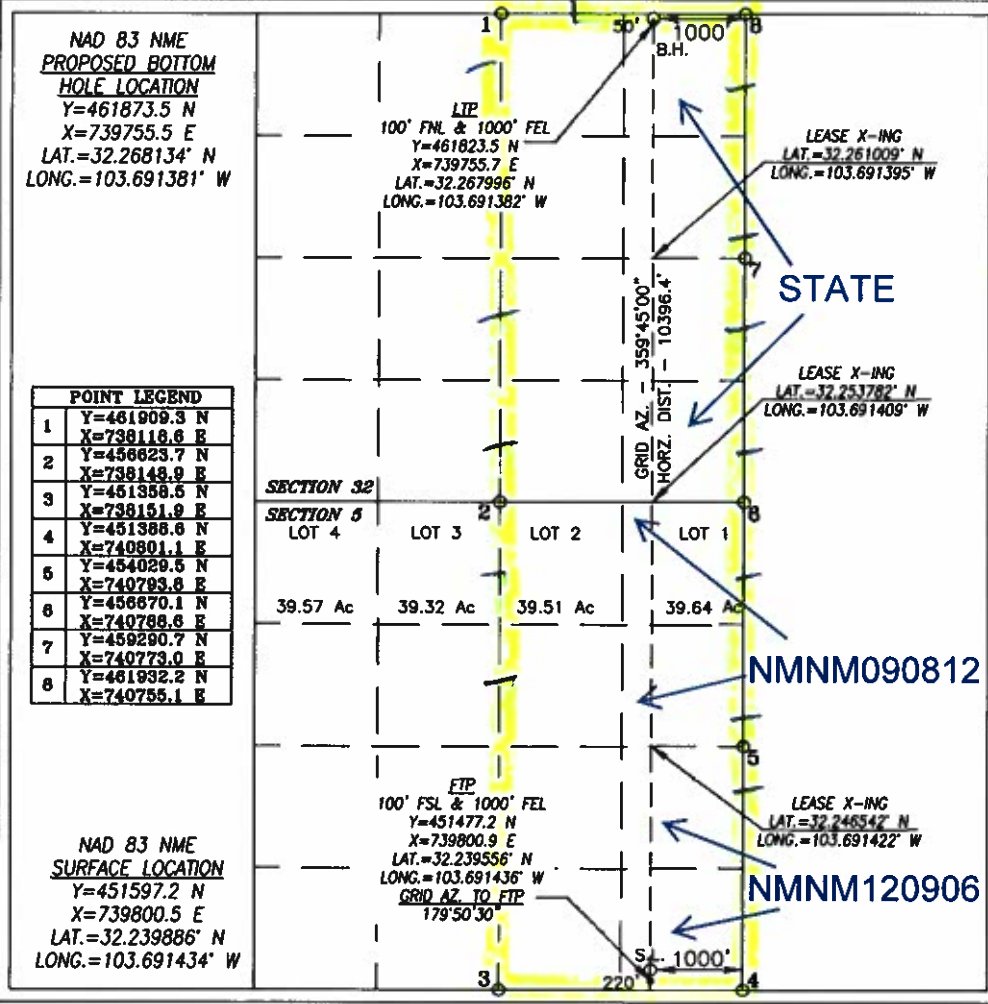
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	5	24-S	32-E		220	SOUTH	1000	EAST	LEA

**Bottom Hole Location If Different From Surface**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	32	23-S	32-E		50	NORTH	1000	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
<b>639.13</b>			

**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**



**OPERATOR CERTIFICATION**  
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*Mayte Reyes* HS-2021  
Signature Date  
**Mayte Reyes**  
Printed Name  
**mreyes1@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.

MAY 8, 2020  
Date of Survey

Signature & Seal of Professional Surveyor

**CHAD L. HARGROW**  
NEW MEXICO  
LICENSED PROFESSIONAL SURVEYOR  
17777

*Chad Hargrow* 5/20/20  
Certificate No. CHAD HARGROW 17777  
W.O. # 20-712 DRAWN BY: DS

As per LR2000 Lot 1: 39.47 Lot 2: 39.66 Lot 3: 39.84 Lot 4: 40.03

**DISTRICT I**  
 1425 N. FRENCH DR., HOBBES, NM 87340  
 Phone: (575) 393-6161 Fax: (575) 393-0720

**DISTRICT II**  
 511 S. FIRST ST., ARTESIA, NM 88210  
 Phone: (575) 748-1283 Fax: (575) 748-9720

**DISTRICT III**  
 1000 RIO BRAZOS RD., AZTEC, NM 87410  
 Phone: (505) 334-6176 Fax: (505) 334-6170

**DISTRICT IV**  
 1220 S. ST. FRANCIS DR., SANTA FE, NM 87505  
 Phone: (505) 476-3450 Fax: (505) 476-3452

State of New Mexico  
 Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
 1220 SOUTH ST. FRANCIS DR.  
 Santa Fe, New Mexico 87505

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

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-025-</b>	Pool Code <b>98248</b>	Pool Name <b>WC-025 G-08 S243217P; Upper Wolfcamp</b>
Property Code	Property Name <b>GIN AND TECTONIC FEDERAL COM</b>	Well Number <b>703H</b>
OGRID No. <b>229137</b>	Operator Name <b>COG OPERATING, LLC</b>	Elevation <b>3645.7'</b>

**Surface Location**

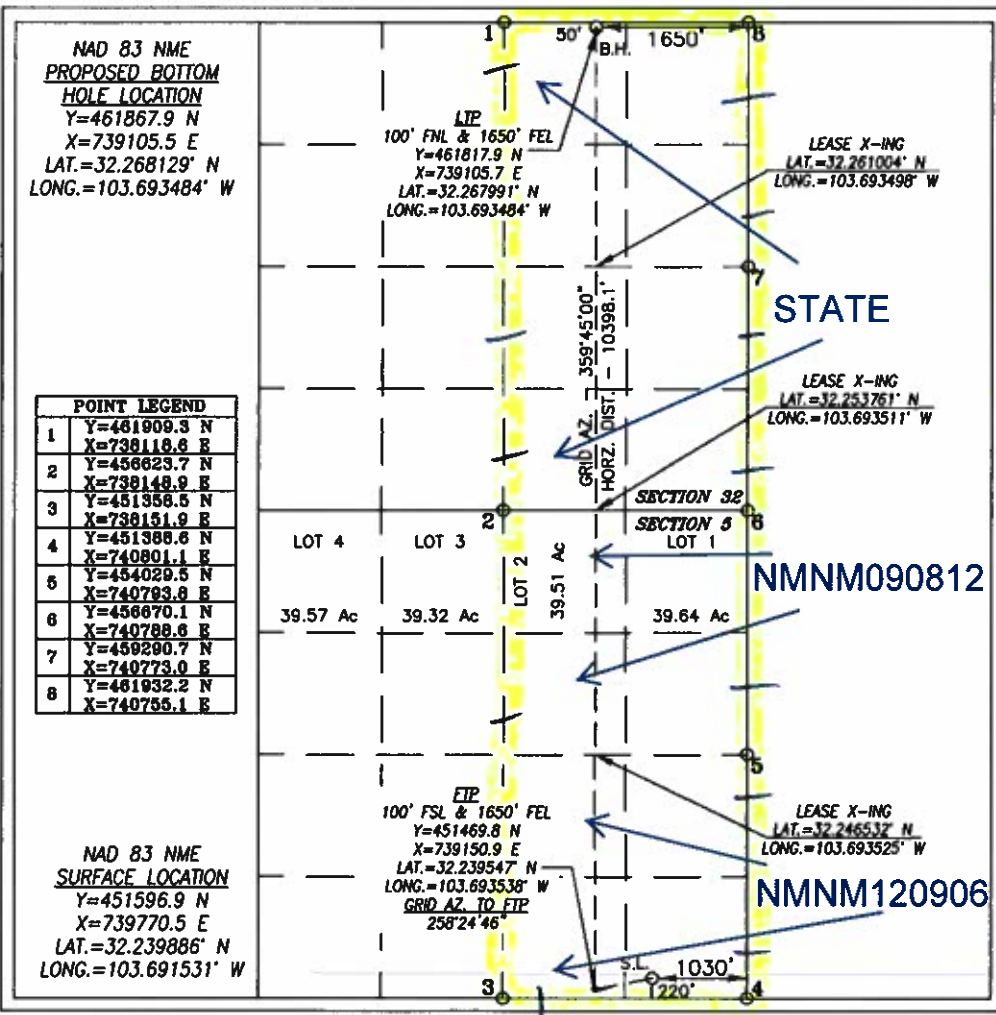
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	5	24-S	32-E		220	SOUTH	1030	EAST	LEA

**Bottom Hole Location If Different From Surface**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	32	23-S	32-E		50	NORTH	1650	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
<b>639.13</b>			

**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**



**OPERATOR CERTIFICATION**  
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*Mayte Reyes*  
 Signature Date  
**Mayte Reyes**  
 Printed Name  
**mreyes1@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.

**MAY 8, 2020**  
 Date of Survey

Signature & Seal of Professional Surveyor

**CHAD L. HARCROW**  
 NEW MEXICO  
 17777  
 LICENSED PROFESSIONAL SURVEYOR

*Chad Harcrow*  
 Signature Date  
**5/20/20**  
 Certificate No. CHAD HARCROW 17777  
 W.O. # 20-711 DRAWN BY: DS

**As per LR2000 Lot 1: 39.47 Lot 2: 39.66 Lot 3: 39.84 Lot 4: 40.03**

**DISTRICT I**  
1425 N. FRENCH DR., HOBBS, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0780

**DISTRICT II**  
811 S. FIRST ST., ARTESIA, NM 88210  
Phone: (575) 748-1483 Fax: (575) 748-9720

**DISTRICT III**  
1000 RIO BRAZOS RD., AZTEC, NM 87410  
Phone: (505) 334-8176 Fax: (505) 334-8170

**DISTRICT IV**  
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505  
Phone: (505) 476-3400 Fax: (505) 476-3482

State of New Mexico  
**Energy, Minerals & Natural Resources Department**  
**OIL CONSERVATION DIVISION**  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

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

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-025-</b>	Pool Code <b>98248</b>	Pool Name <b>WC-025 G-08 S243217P; Upper Wolfcamp</b>
Property Code	Property Name <b>GIN AND TECTONIC FEDERAL COM</b>	Well Number <b>704H</b>
OGRID No. <b>229137</b>	Operator Name <b>COG OPERATING, LLC</b>	Elevation <b>3620.7'</b>

**Surface Location**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	5	24-S	32-E		300	SOUTH	2625	EAST	LEA

**Bottom Hole Location If Different From Surface**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	32	23-S	32-E		50	NORTH	2320	EAST	LEA

Dedicated Acres <b>639.13</b>	Joint or Infill	Consolidation Code	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**

**NAD 83 NME PROPOSED BOTTOM HOLE LOCATION**  
Y=461862.0 N  
X=738435.5 E  
LAT.=32.268124° N  
LONG.=103.695652° W

POINT LEGEND	
1	Y=461909.3 N X=738118.6 E
2	Y=458623.7 N X=738148.9 E
3	Y=451358.5 N X=738151.9 E
4	Y=451388.6 N X=740801.1 E
5	Y=454029.5 N X=740793.6 E
6	Y=458670.1 N X=740788.6 E
7	Y=459290.7 N X=740773.0 E
8	Y=481932.2 N X=740755.1 E

**NAD 83 NME SURFACE LOCATION**  
Y=451658.9 N  
X=738175.4 E  
LAT.=32.240082° N  
LONG.=103.696689° W

NMNM090812

NMNM120906

**OPERATOR CERTIFICATION**

*I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.*

MAYREY 11-3-2021

Signature \_\_\_\_\_ Date \_\_\_\_\_

Mayte Reyes

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

mreyes1@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.*

MAY 11, 2020

Date of Survey

Signature & Seal of Professional Surveyor

Chad Harcrow

5/19/20

Certificate No. CHAD HARCROW 17777  
W.O. # 20-715 DRAWN BY: DS

As per LR2000 Lot 1: 39.47 Lot 2: 39.66 Lot 3: 39.84 Lot 4: 40.03

**DISTRICT I**  
 1425 N. FRENCH DR., HOBBBS, NM 88240  
 Phone: (575) 393-8181 Fax: (575) 393-0780

**DISTRICT II**  
 811 S. FIRST ST., ARTESIA, NM 88210  
 Phone: (575) 748-1283 Fax: (575) 748-8720

**DISTRICT III**  
 1000 RIO BRAZOS RD., AZTEC, NM 87410  
 Phone: (505) 334-6176 Fax: (505) 334-6170

**DISTRICT IV**  
 1220 S. ST. FRANCIS DR., SANTA FE, NM 87505  
 Phone: (505) 476-3460 Fax: (505) 476-3482

State of New Mexico  
 Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
 1220 SOUTH ST. FRANCIS DR.  
 Santa Fe, New Mexico 87505

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

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-025-</b>	Pool Code <b>98248</b>	Pool Name <b>WC-025 G-08 S243217P; Upper Wolfcamp</b>
Property Code	Property Name <b>GIN AND TECTONIC FEDERAL COM</b>	Well Number <b>705H</b>
OGRID No. <b>229137</b>	Operator Name <b>COG OPERATING, LLC</b>	Elevation <b>3619.9'</b>

**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	5	24-S	32-E		300	SOUTH	2620	WEST	LEA

**Bottom Hole Location If Different From Surface**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	32	23-S	32-E		50	NORTH	2310	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
<b>639.87</b>			

**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**

**STATE**

**NMNM120906**

**FEE**

**OPERATOR CERTIFICATION**

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*Mayte Reyes* 1B-2021  
 Signature Date

**Mayte Reyes**  
 Printed Name

**mreyes1@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.*

MAY 11, 2020  
 Date of Survey

Signature & Seal of Professional Surveyor

**CHAD L. HARCROW**  
 NEW MEXICO  
 LICENSED PROFESSIONAL SURVEYOR  
 17777

*Chad Harcrow* 5/19/20  
 Certificate No. CHAD HARCROW 17777  
 W.O. #20-714 DRAWN BY: DS

**NAD 83 NME PROPOSED BOTTOM HOLE LOCATION**  
 Y=461856.4 N  
 X=737793.3 E  
 LAT.=32.268119° N  
 LONG.=103.697730° W

POINT LEGEND	
1	Y=461909.3 N X=738118.6 E
2	Y=456623.7 N X=738148.9 E
3	Y=451358.5 N X=738151.9 E
4	Y=451320.3 N X=735518.6 E
5	Y=453971.6 N X=735569.2 E
6	Y=456603.0 N X=735510.7 E
7	Y=459243.2 N X=735500.1 E
8	Y=461885.7 N X=735483.1 E

**NAD 83 NME SURFACE LOCATION**  
 Y=451658.4 N  
 X=738145.5 E  
 LAT.=32.240082° N  
 LONG.=103.696786° W

As per LR2000 Lot 1: 39.47 Lot 2: 39.66 Lot 3: 39.84 Lot 4: 40.03

**DISTRICT I**  
1625 N. FRENCHE DR., HOHES, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

**DISTRICT II**  
811 S. FIRST ST., ARTESIA, NM 88210  
Phone: (575) 746-1283 Fax: (575) 746-9720

**DISTRICT III**  
1000 RIO BRAZOS RD., AZTEC, NM 87410  
Phone: (505) 334-6176 Fax: (505) 334-6170

**DISTRICT IV**  
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505  
Phone: (505) 476-3480 Fax: (505) 476-3482

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

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

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-025-</b>	Pool Code <b>98248</b>	Pool Name <b>WC-025 G-08 S243217P; Upper Wolfcamp</b>
Property Code	Property Name <b>GIN AND TENTONIC FEDERAL COM</b>	Well Number <b>706H</b>
OGRID No. <b>229137</b>	Operator Name <b>COG OPERATING, LLC</b>	Elevation <b>3586.1'</b>

**Surface Location**

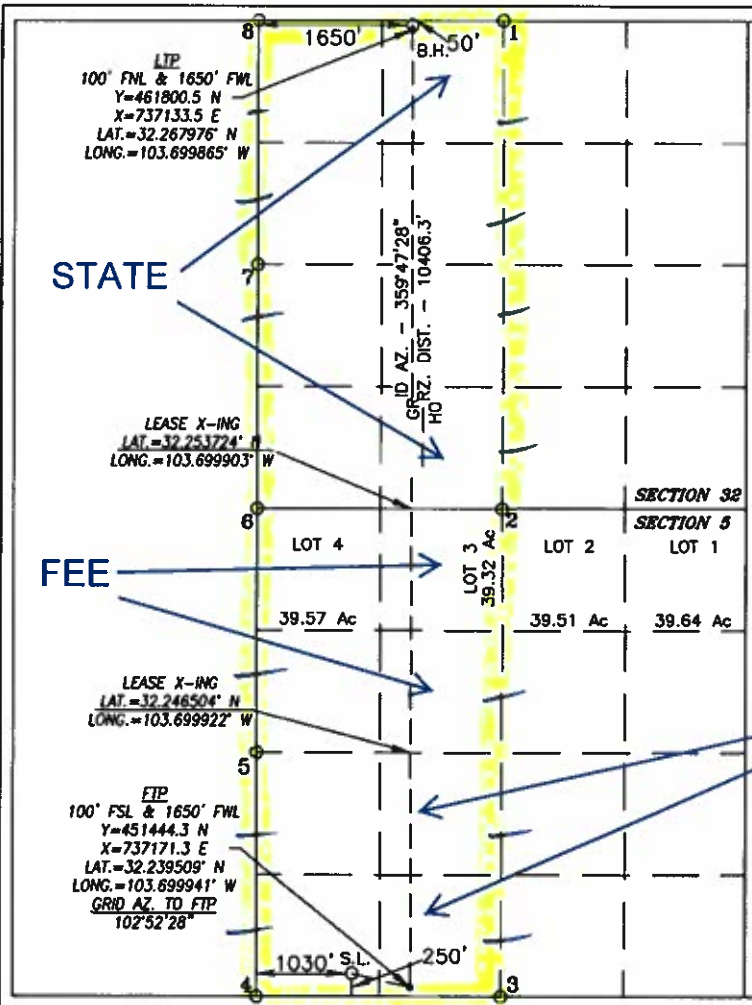
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	5	24-S	32-E		250	SOUTH	1030	WEST	LEA

**Bottom Hole Location If Different From Surface**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	32	23-S	32-E		50	NORTH	1650	WEST	LEA

Dedicated Acres <b>639.87</b>	Joint or Infill	Consolidation Code	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**



NAD 83 NME  
PROPOSED BOTTOM HOLE LOCATION  
Y=461850.5 N  
X=737133.4 E  
LAT.=32.268113' N  
LONG.=103.699865' W

POINT LEGEND	
1	Y=461909.3 N X=738118.6 E
2	Y=456623.7 N X=738148.9 E
3	Y=451358.5 N X=738151.9 E
4	Y=451320.3 N X=735518.6 E
5	Y=453971.6 N X=735589.2 E
6	Y=456803.0 N X=735510.7 E
7	Y=459243.2 N X=735590.1 E
8	Y=461885.7 N X=735483.1 E

NAD 83 NME  
SURFACE LOCATION  
Y=451585.4 N  
X=736553.9 E  
LAT.=32.239907' N  
LONG.=103.701935' W

**OPERATOR CERTIFICATION**  
I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Mayte Reyes* HB-2021  
Signature Date

**Mayte Reyes**  
Printed Name  
[mreyes1@concho.com](mailto:mreyes1@concho.com)  
E-mail Address

**SURVEYOR CERTIFICATION**  
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MAY 8, 2020  
Date of Survey

Signature & Seal of Professional Surveyor

**CHAD L. HARCROW**  
NEW MEXICO  
LICENSED PROFESSIONAL SURVEYOR  
17777

*Chad Harcrow* 5/20/20  
Certificate No. CHAD HARCROW 17777  
W.O. # 20-718 DRAWN BY: AH

As per LR2000 Lot 1: 39.47 Lot 2: 39.66 Lot 3: 39.84 Lot 4: 40.03

**DISTRICT I**  
1625 W. FRENCH DR., HORES, NM 88440  
Phone: (505) 988-4141 Fax: (505) 988-0720

**DISTRICT II**  
811 S. FIRST ST., ARTESIA, NM 88210  
Phone: (505) 746-1263 Fax: (505) 746-9720

**DISTRICT III**  
1000 RIO BRAZOS RD., AZTEC, NM 87410  
Phone: (505) 334-6176 Fax: (505) 334-6170

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Phone: (505) 476-3480 Fax: (505) 476-3482

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

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Revised August 1, 2011  
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District Office

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-025-</b>	Pool Code <b>98248</b>	Pool Name <b>WC-025 G-08 S243217P; Upper Wolfcamp</b>
Property Code	Property Name <b>GIN AND TECTONIC FEDERAL COM</b>	Well Number <b>707H</b>
OGRID No. <b>229137</b>	Operator Name <b>COG OPERATING, LLC</b>	Elevation <b>3584.3'</b>

**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	5	24-S	32-E		250	SOUTH	1000	WEST	LEA

**Bottom Hole Location If Different From Surface**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	32	23-S	32-E		50	NORTH	1000	WEST	LEA

Dedicated Acres <b>639.87</b>	Joint or Infill	Consolidation Code	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**

**STATE**

**NMNM120906**

**LIP**  
100' FNL & 1000' FWL  
Y=461794.7 N  
X=736483.6 E  
LAT.=32.267970° N  
LONG.=103.701968° W

**LEASE X-ING**  
LAT.=32.253721° N  
LONG.=103.702006° W

**FTP**  
100' FNL & 1000' FWL  
Y=451434.8 N  
X=736521.0 E  
LAT.=32.239493° N  
LONG.=103.702044° W  
GRID AZ. TO FTP  
181°04'50"

**GRID AZ. = 359°47'35"**  
**HORIZ. DIST. = 10409.9'**

**SECTION 32**  
**SECTION 5**

**LOT 3** 39.32 Ac  
**LOT 2** 39.51 Ac  
**LOT 1** 39.64 Ac  
**LOT 4** 39.57 Ac

**NAD 83 NME PROPOSED BOTTOM HOLE LOCATION**  
Y=461844.7 N  
X=736483.4 E  
LAT.=32.268108° N  
LONG.=103.701968° W

**POINT LEGEND**

1	Y=461909.3 N
	X=738118.6 E
2	Y=456623.7 N
	X=738148.9 E
3	Y=461356.5 N
	X=738151.9 E
4	Y=451320.3 N
	X=735518.6 E
5	Y=453971.6 N
	X=735589.2 E
6	Y=456603.0 N
	X=735510.7 E
7	Y=459243.2 N
	X=735500.1 E
8	Y=461865.7 N
	X=735483.1 E

**NAD 83 NME SURFACE LOCATION**  
Y=451584.9 N  
X=736523.8 E  
LAT.=32.239906° N  
LONG.=103.702032° W

**OPERATOR CERTIFICATION**

I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Mayte Reyes*  
Signature Date

**Mayte Reyes**  
Printed Name

**mreyes1@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.

**MAY 8, 2020**  
Date of Survey

Signature & Seal of Professional Surveyor

*Chad Hargrow*  
5/20/20

Certificate No. **CHAD HARGROW 17777**  
W.O. # 20-717 DRAWN BY: AH

As per LR2000 Lot 1: 39.47 Lot 2: 39.66 Lot 3: 39.84 Lot 4: 40.03



**DISTRICT I**  
1820 N. FRENCH DR., HORES, NM 88240  
Phone: (978) 883-6181 Fax: (978) 883-0720

**DISTRICT II**  
511 S. FIRST ST., ARTESIA, NM 88210  
Phone: (978) 748-1283 Fax: (978) 748-8780

**DISTRICT III**  
1000 RIO BRAZOS RD., AZTEC, NM 87410  
Phone: (505) 334-6176 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, New Mexico 87505

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

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-025-</b>	Pool Code <b>98248</b>	Pool Name <b>WC-025 G-08 S243217P; Upper Wolfcamp</b>
Property Code	Property Name <b>GIN AND TECTONIC FEDERAL COM</b>	Well Number <b>708H</b>
OGRID No. <b>229137</b>	Operator Name <b>COG OPERATING, LLC</b>	Elevation <b>3584.3'</b>

**Surface Location**

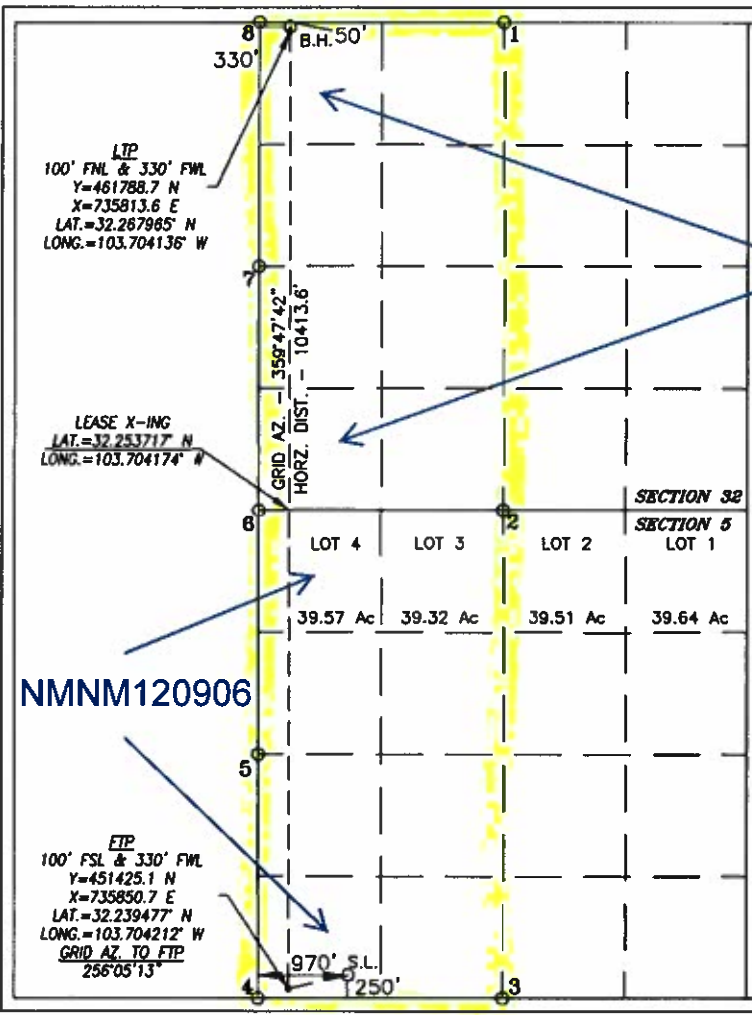
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	5	24-S	32-E		250	SOUTH	970	WEST	LEA

**Bottom Hole Location If Different From Surface**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	32	23-S	32-E		50	NORTH	330	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
<b>639.87</b>			

**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**



**NAD 83 NME**  
**PROPOSED BOTTOM**  
**HOLE LOCATION**  
Y=461838.7 N  
X=735813.4 E  
LAT.=32.268102° N  
LONG.=103.704135° W

**STATE**

POINT LEGEND	
1	Y=461808.3 N X=738116.6 E
2	Y=456623.7 N X=738148.9 E
3	Y=451358.5 N X=738151.9 E
4	Y=461320.3 N X=735518.6 E
5	Y=453971.6 N X=735569.2 E
6	Y=456603.0 N X=735510.7 E
7	Y=459243.2 N X=735500.1 E
8	Y=461865.7 N X=735483.1 E

**NAD 83 NME**  
**SURFACE LOCATION**  
Y=451584.4 N  
X=736493.9 E  
LAT.=32.239905° N  
LONG.=103.702129° W

**OPERATOR CERTIFICATION**  
I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Mayte Reyes*  
Signature Date  
**Mayte Reyes**  
Printed Name  
**mreyes1@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.

**MAY 8, 2020**  
Date of Survey

Signature & Seal of Professional Surveyor

**CHAD L. HARCROW**  
**NEW MEXICO**  
**17777**  
**LICENSED PROFESSIONAL SURVEYOR**

*Chad Harcrow*  
Signature  
**5/20/20**  
Date of Survey  
Certificate No. **CHAD HARCROW 17777**  
W.O. #20-716 DRAWN BY: AH

As per LR2000 Lot 1: 39.47 Lot 2: 39.66 Lot 3: 39.84 Lot 4: 40.03

**Case No. 22460**

**COG Operating LLC – Gin and Tectonic Federal Com 504H-506H**

Township 23 South – Range 32 East, NMPM.

Section 32: W2

Township 24 South – Range 32 East, NMPM.

Section 5: W2

Lea County, New Mexico

Limited in Depth to the Bone Spring Formation

State			
			Sec. 32
			Sec. 5

	Tract 1 – State
	Tract 2 – State
	Tract 3 – Fed
	Tract 4 – State

**Tract 1 (State of NM V-3407): Section 32: W2W2, NENW, SESW (240.00 Acres more or less), T23S-R32E**

<b>WPX Energy Permian, LLC</b>	<b>15.000000%</b>
<b>COG Oil &amp; Gas, LP</b>	<b>25.000000%</b>
<b>Cimarex Energy Co.</b>	<b>60.000000%</b>
<b>Total:</b>	<b>100.000000%</b>

Participating Parties  
**Parties We Seek To Pool**

**Tract 2 (State of NM V-3407): Section 32: NESW, SENW (80.00 Acres more or less), T23S-R32E**

<b>COG Oil &amp; Gas, LP</b>	<b>25.000000%</b>
<b>Anthracite Energy Partners</b>	<b>4.500000%</b>

BEFORE THE OIL CONSERVATION DIVISION  
 Santa Fe, New Mexico  
 Exhibit No. C3  
 Submitted by: COG OPERATING LLC  
 Hearing Date: April 7, 2022  
 Case Nos. 22460-22462

<b>AmericaWest Resources</b>	<b>1.500000%</b>
<b>Tailwag Resources, LLC</b>	<b>1.500000%</b>
<b>Betelgeuse Production</b>	<b>7.500000%</b>
<b>Cimarex Energy Co.</b>	<b>60.000000%</b>

**Total:** 100.000000%  
**Participating Parties**  
**Parties We Seek To Pool**

**Tract 3 (USA NMNM-120906): Section 5: Lot 4, SWNW, SW (240.03 Acres more or less), T24S-R32E**

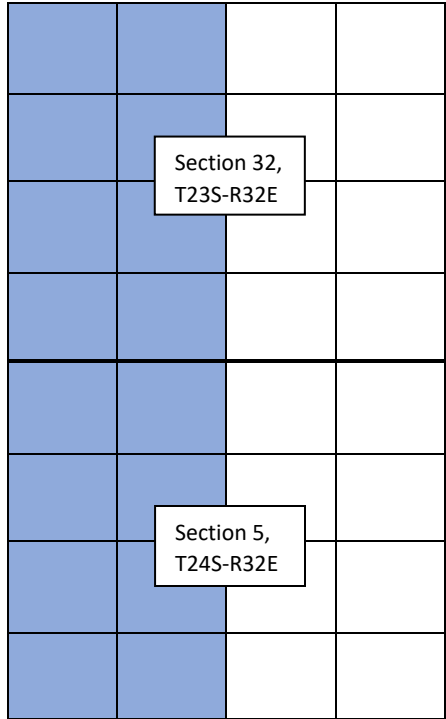
<b>COG Production LLC</b>	<b>100.000000%</b>
<b>Total:</b>	<b>100.000000%</b>

**Participating Parties**

**Tract 4 (State of NM VB-1171): Section 5: Lot 3 and SENW (79.84 Acres more or less), T24S-R32E**

<b>COG Production LLC</b>	<b>33.333333%</b>
<b>COG Operating LLC</b>	<b>31.666667%</b>
<b>Hanley Petroleum, LLC</b>	<b>28.000000%</b>
<b>Concho Oil &amp; Gas, LLC</b>	<b>1.666667%</b>
<b>H6 Holding LLC</b>	<b>1.666667%</b>
<b>LHAH Properties, LLC</b>	<b>3.333333%</b>
<b>TBO Oil &amp; Gas, LLC</b>	<b>3.333333%</b>
<b>Total:</b>	<b>100.000000%</b>

**Participating Parties**  
**Parties We Seek To Pool**



**Gin and Tectonic Federal Com Spacing Unit**

W2 Spacing Unit Summary (639.87 Acres more or less), Section 32, T23S-R32E and Section 5, T24S-R32E, NMPM.

**Recapitulation**

COG Operating LLC	3.951219%
COG Production LLC	41.671485%
Concho Oil & Gas, LLC	0.207959%
COG Oil & Gas, LP	12.502540%
Cimarex Energy Co.	30.006095%
<b>WPX Energy Permian, LLC</b>	<b>5.626143%</b>
Hanley Petroleum, LLC	3.493710%
<b>Anthracite Energy Partners</b>	<b>0.562614%</b>
<b>AmericaWest Resources</b>	<b>0.187538%</b>
<b>Tailwag Resources, LLC</b>	<b>0.187538%</b>
<b>Betelgeuse Production</b>	<b>0.937690%</b>
H6 Holding LLC	0.415918%
<b>LHAH Properties, LLC</b>	<b>0.207959%</b>
<b>TBO Oil &amp; Gas, LLC</b>	<b>0.041592%</b>
<b>Total:</b>	<b>100.000000%</b>

**Participating Parties**

**Parties We Seek To Pool**

**Case No. 22461**

**COG Operating LLC – Gin and Tectonic Federal Com 701H-704H**

Township 23 South – Range 32 East, NMPM.

Section 32: E2

Township 24 South – Range 32 East, NMPM.

Section 5: E2

Lea County, New Mexico

Limited in Depth to the Wolfcamp Formation

Sec. 32			
Sec. 5			

	Tract 1 – State
	Tract 2 – State
	Tract 3 – Fed
	Tract 4 – Fed

**Tract 1 (State of NM V-1811): Section 32: NE (160.00 Acres more or less), T23S-R32E**

Harvard Petroleum Company, LLC	70.675000%
Capitan Mountain Oil and Gas, LLC	1.000000%
Ball Oil and Gas, LLC	1.000000%
Gerald Childress and wife, Martha G. Childress	1.130000%
Har-Vest, LLC	1.000000%
H. Lee and Joanne W. Harvard Trust, H. Lee Harvard and Jeffrey L. Harvard, Co-Trustees	2.542500%
J 4 Family Limited Partnership	1.130000%
Patricia Darlene Rodak, as separate property	1.130000%
Alpha Energy Partners, LLC	1.000000%
<b>COG Operating, LLC</b>	<b>20.000000%</b>

**Total:** 100.000000%

**Participating Parties**

**Parties We Seek To Pool**

**Tract 2 (State of NM V-3407): Section 32: SE (160.00 Acres more or less), T23S-R32E**

**WPX Energy Permian, LLC** 15.000000%

**COG Oil & Gas, LP** 25.000000%

**Cimarex Energy Co.** 60.000000%

**Total:** 100.000000%

**Participating Parties**

**Parties We Seek To Pool**

**Tract 3 (USA NMNM-90812): Section 5: Lots 1 and 2, S2NE (159.13 Acres more or less), T24S-R32E**

**COG Operating LLC** 100.000000%

**Total:** 100.000000%

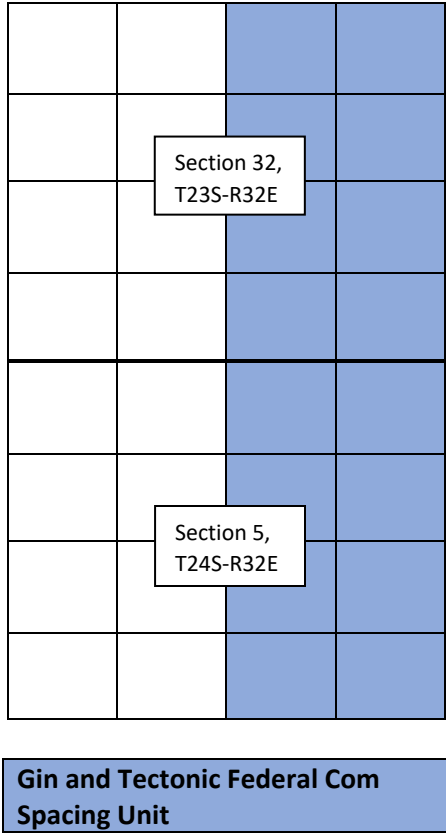
**Participating Parties**

**Tract 4 (USA NMNM-120906): Section 5: SE (160 Acres more or less), T24S-R32E**

**COG Production LLC** 100.000000%

**Total:** 100.000000%

**Participating Parties**



E2 Spacing Unit Summary (639.13 Acres more or less), Section 32, T23S-R32E and Section 5, T24S-R32E, NMPM.

**Recapitulation**

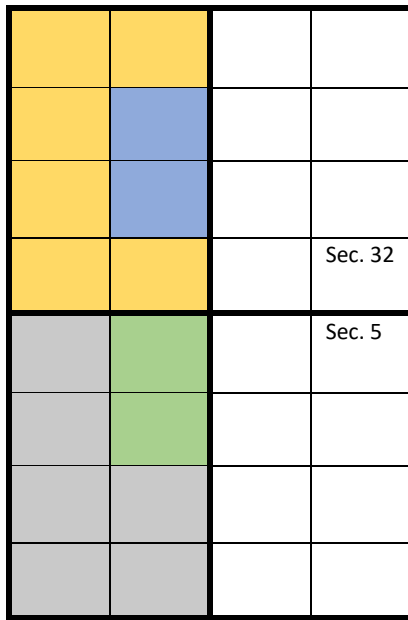
<b>COG Operating LLC</b>	<b>29.904714%</b>
<b>COG Oil &amp; Gas, LP</b>	<b>6.258508%</b>
<b>COG Production LLC</b>	<b>25.034031%</b>
<b>Harvard Petroleum Company, LLC</b>	<b>17.540719%</b>
<b>Capitan Mountain Oil and Gas, LLC</b>	<b>0.250340%</b>
<b>Ball Oil and Gas, LLC</b>	<b>0.250340%</b>
<b>Gerald Childress and wife, Martha G. Childress</b>	<b>0.282885%</b>
<b>Har-Vest, LLC</b>	<b>0.250340%</b>
<b>H. Lee and Joanne W. Harvard Trust, H. Lee Harvard and Jeffrey L. Harvard, Co-Trustees</b>	<b>0.636490%</b>
<b>J 4 Family Limited Partnership</b>	<b>0.282885%</b>
<b>Patricia Darlene Rodak, as separate property</b>	<b>0.282885%</b>
<b>Alpha Energy Partners, LLC</b>	<b>0.250340%</b>
<b>WPX Energy Permian, LLC</b>	<b>3.755105%</b>
<b>Cimarex Energy Co.</b>	<b>15.020418%</b>
<b>Total:</b>	<b>100.000000%</b>
<b>Participating Parties</b>	
<b>Parties We Seek To Pool</b>	

Case No. 22462

COG Operating LLC – Gin and Tectonic Federal Com 705H-708H

Township 23 South – Range 32 East, NMPM.  
 Section 32: W2  
 Township 24 South – Range 32 East, NMPM.  
 Section 5: W2  
 Lea County, New Mexico

Limited in Depth to the Wolfcamp Formation



	Tract 1 – State
	Tract 2 – State
	Tract 3 – Fed
	Tract 4 – State

Tract 1 (State of NM V-3407): Section 32: W2W2, NENW, SESW (240.00 Acres more or less), T23S-R32E

<b>WPX Energy Permian, LLC</b>	<b>15.000000%</b>
COG Oil & Gas, LP	25.000000%
Cimarex Energy Co.	60.000000%
<b>Total:</b>	<b>100.000000%</b>

Participating Parties  
**Parties We Seek To Pool**

Tract 2 (State of NM V-3407): Section 32: NESW, SENW (80.00 Acres more or less), T23S-R32E

COG Oil & Gas, LP	25.000000%
<b>Anthracite Energy Partners</b>	<b>4.500000%</b>



<b>AmericaWest Resources</b>	<b>1.500000%</b>
<b>Tailwag Resources, LLC</b>	<b>1.500000%</b>
<b>Betelgeuse Production</b>	<b>7.500000%</b>
<b>Cimarex Energy Co.</b>	<b>60.000000%</b>

**Total:** 100.000000%  
**Participating Parties**  
**Parties We Seek To Pool**

**Tract 3 (USA NMNM-120906): Section 5: Lot 4, SWNW, SW (240.03 Acres more or less), T24S-R32E**

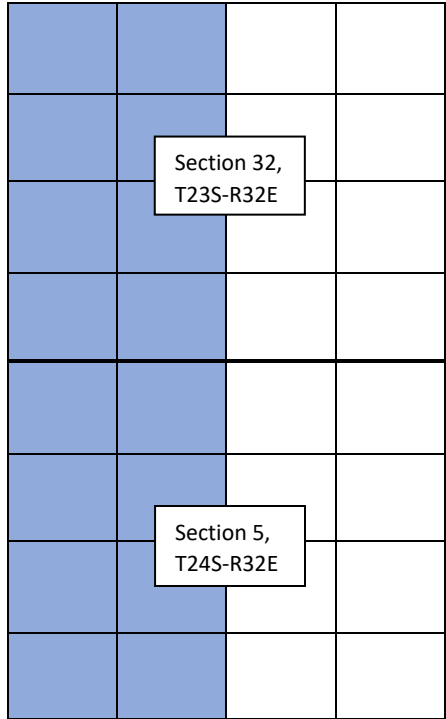
<b>COG Production LLC</b>	<b>100.000000%</b>
<b>Total:</b>	<b>100.000000%</b>

**Participating Parties**

**Tract 4 (State of NM VB-1171): Section 5: Lot 3 and SENW (79.84 Acres more or less), T24S-R32E**

<b>COG Production LLC</b>	<b>33.333333%</b>
<b>COG Operating LLC</b>	<b>31.666667%</b>
<b>Hanley Petroleum, LLC</b>	<b>28.000000%</b>
<b>Concho Oil &amp; Gas, LLC</b>	<b>1.666667%</b>
<b>H6 Holding LLC</b>	<b>1.666667%</b>
<b>LHAH Properties, LLC</b>	<b>3.333333%</b>
<b>TBO Oil &amp; Gas, LLC</b>	<b>3.333333%</b>
<b>Total:</b>	<b>100.000000%</b>

**Participating Parties**  
**Parties We Seek To Pool**



**Gin and Tectonic Federal Com Spacing Unit**

W2 Spacing Unit Summary (639.87 Acres more or less), Section 32, T23S-R32E and Section 5, T24S-R32E, NMPM.

**Recapitulation**

COG Operating LLC	3.951219%
COG Production LLC	41.671485%
Concho Oil & Gas, LLC	0.207959%
COG Oil & Gas, LP	12.502540%
Cimarex Energy Co.	30.006095%
<b>WPX Energy Permian, LLC</b>	<b>5.626143%</b>
Hanley Petroleum, LLC	3.493710%
<b>Anthracite Energy Partners</b>	<b>0.562614%</b>
<b>AmericaWest Resources</b>	<b>0.187538%</b>
<b>Tailwag Resources, LLC</b>	<b>0.187538%</b>
<b>Betelgeuse Production</b>	<b>0.937690%</b>
H6 Holding LLC	0.415918%
<b>LHAH Properties, LLC</b>	<b>0.207959%</b>
<b>TBO Oil &amp; Gas, LLC</b>	<b>0.041592%</b>
<b>Total:</b>	<b>100.000000%</b>

**Participating Parties**

**Parties We Seek To Pool**

## CHRONOLOGY OF CONTACTS

### CASE NOS. 22460, 22461, 22462

9/2/2021 - Ryan Curry, COG Landman, both called and later emailed Jeff Harvard proposing an offer for to acquire Harvard's interest through a Term Assignment covering Section 32: NE/4 of T24S-R32E (below the base of the Bone Spring formation).

9/14/2021 – Well proposals, AFE, and an Operating Agreement were sent to all uncommitted working interest owners (W2 Wolfcamp)

9/15/2021 – Well proposals, AFE, and an Operating Agreement were sent to all uncommitted working interest owners (E2 Wolfcamp)

9/20/2021 – Well proposals, AFE, and an Operating Agreement were sent to all uncommitted working interest owners (W2 Bone Spring)

9/23/2022 Ryan Curry, COG Landman sent an email in response to a series of emails (dating back to June 2, 2021) and conversations with Lois Krenek, VP Otter Creek, LLC regarding acquiring Otter Creek's interest. The 9/23/2022 email explained that due to various title issues COG would require a warranty of title to enter into a Term Assignment of Otter Creek's interest.

2/15/2022 – Ryan Curry, COG Landman was sent an email from Lynn Charuk stating that Otter Creek LLC assigned its interest to various parties in an unrecorded assignment.

1/27/2022 - 3/2/2022 – Ryan Curry, COG Landman exchanged various emails with Ryan Cloer, WPX Landman regarding a potential lease exchange covering Devon's acreage within the proposed spacing units.

18527606\_v1

BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico  
Exhibit No. C4  
Submitted by: COG OPERATING LLC  
Hearing Date: April 7, 2022  
Case Nos. 22460-22462

Cimarex Energy Co.  
Permian Business Unit  
600 N. Marienfeld Street  
Suite 600  
Midland, Texas 79701  
MAIN 432.571.7800



March 31, 2022

New Mexico Oil Conservation Division

Via e-filing by COG Operating LLC in Cases 22460, 22461 and 22462

Re: Support for COG Operating LLC's Gin & Tectonics Cases, Case Nos. 22460-22462 located in Section 5, Township 24 South, Range 32 East, and Section 32, Township 23 South, Range 32 East, Lea County, New Mexico

Dear OCD:

Cimarex Energy Co. ("Cimarex") respectfully submits this letter in support of COG Operating LLC's ("COG") Gin & Tectonics Cases, Case Nos. 22460-22462 located in Section 5, Township 24 South, Range 32 East, and Section 32, Township 23 South, Range 32 East, Lea County, New Mexico, which are set for hearing on April 7, 2022. Cimarex supports COG's Gin & Tectonics cases and supports COG's operatorship in those cases.

Sincerely,

A handwritten signature in blue ink that reads "Kelsi Henriques". The signature is fluid and cursive.

Kelsi Henriques  
Landman – Permian Basin Business Unit

**BEFORE THE OIL CONSERVATION DIVISION**  
Santa Fe, New Mexico  
Exhibit No. C5  
Submitted by: COG OPERATING LLC  
Hearing Date: April 7, 2022  
Case Nos. 22460-22462



ConocoPhillips  
600 W. Illinois Ave.  
Midland, TX 79701  
www.conocophillips.com

9/15/2021

Company  
Address  
City State Zip

*Via Certified Mail, Return Receipt Requested*

Re: **Well Proposal- Gin and Tectonic Federal Com Wells**

Township 24 South, Range 32 East, N.M.P.M.

Section 5: Lots 3 & 4, S/2NW/4, SW/4 (W/2)

Township 23 South, Range 32 East, N.M.P.M.

Section 32: W/2

639.87 Acres, more or less – Bone Spring Formation

Lea County, New Mexico

Dear Sir or Madam:

COG Operating LLC (“COG”) previously proposed multiple Gin and Tectonic wells covering lands in Section 5, T24S-R32E and Section 32, T23S-R32E, N.M.P.M., Lea County, New Mexico. COG hereby rescinds all previous Gin and Tectonic Bone Spring well proposals covering the legal descriptions listed above and the associated Operating Agreements. Due to a differing price environment, COG is proposing the Gin and Tectonic project with the following.

COG Operating LLC (“COG”), as Operator, hereby proposes the drilling of the following horizontal wells with productive laterals located in Lots 3 & 4, S/2NW/4, SW/4 (W/2) of Section 5, T24S-R32E, and the W/2 of Section 32, T23S-R32E, Lea County, New Mexico (collectively, the “Operation”). The surface locations will be located in the S/2SW/4 of Section 5, T24S-R32E (or another legal location chosen by Operator).

- **Gin and Tectonic Federal Com 504H**, to be drilled to a depth sufficient to test the Bone Spring formation at an approximate total vertical depth of 10,625 feet. The estimated surface hole location for this well is proposed at approximately 250’ FSL, 1,325’ FWL of Section 5, or a legal location in Section 5. The first take point for this well is estimated at approximately 100’ FSL, 2,178’ FWL of Section 5, and the last take point is estimated at approximately 100’ FNL, 2,178’ FWL of Section 32. The estimated bottom hole location for this well is proposed at approximately 50’ FNL, 2,178’ FWL of Section 32, or a legal location in Section 32. The dedicated horizontal spacing unit will be Lots 3 & 4, S/2NW/4, SW/4 (W/2) of Section 5, T24S-R32E, and the W/2 of Section 32, T23S-R32E, Lea County, New Mexico. The total estimated cost to drill and complete said well is \$7,793,085.00, as shown on the attached Authority for Expenditure (“AFE”).
- **Gin and Tectonic Federal Com 505H**, to be drilled to a depth sufficient to test the Bone Spring formation at an approximate total vertical depth of 10,430 feet. The estimated surface hole location for this well is proposed at approximately 250’ FSL, 1,295’ FWL of Section 5, or a legal location in Section 5. The first take point for this well is estimated at approximately 100’ FSL, 1,254’ FWL of Section 5, and the last take point is estimated at approximately 100’ FNL, 1,254’ FWL of Section 32. The estimated bottom hole location for this well is proposed at approximately 50’ FNL, 1,254’ FWL of Section 32, or a legal location in Section 32. The dedicated horizontal spacing unit will be Lots 3 & 4, S/2NW/4, SW/4 (W/2) of Section 5, T24S-R32E, and the W/2 of Section 32, T23S-R32E, Lea County, New Mexico. The total estimated cost to drill and complete said well is \$7,793,085.00, as shown on the attached Authority for Expenditure (“AFE”).

**BEFORE THE OIL CONSERVATION DIVISION**  
Santa Fe, New Mexico  
Exhibit No. C6  
Submitted by: COG OPERATING LLC  
Hearing Date: April 7, 2022  
Case Nos. 22460-22462

- **Gin and Tectonic Federal Com 506H**, to be drilled to a depth sufficient to test the Bone Spring formation at an approximate total vertical depth of 10,575 feet. The estimated surface hole location for this well is proposed at approximately 250' FSL, 1,265' FWL of Section 5, or a legal location in Section 5. The first take point for this well is estimated at approximately 100' FSL, 330' FWL of Section 5, and the last take point is estimated at approximately 100' FNL, 330' FWL of Section 32. The estimated bottom hole location for this well is proposed at approximately 50' FNL, 330' FWL of Section 32, or a legal location in Section 32. The dedicated horizontal spacing unit will be Lots 3 & 4, S/2NW/4, SW/4 (W/2) of Section 5, T24S-R32E, and the W/2 of Section 32, T23S-R32E, Lea County, New Mexico. The total estimated cost to drill and complete said well is \$7,793,085.00, as shown on the attached Authority for Expenditure ("AFE").

COG is proposing these wells under the terms of a new Operating Agreement which is included for your review and approval. It has the following general provisions:

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

If you do not wish to participate in the Operation, COG would like to discuss the term assignment of your interest to COG under the following indicative terms:

- \$5,000/net acres bonus, with an effective NRI of 80%, delivered to assignee;
- 3 Year Primary Term; and
- Overriding Royalty Interest reserved unto assignor of the positive difference (if any) between existing burdens of record and 20%

Please indicate your desire to term assign your Working Interest to COG by contacting me at the email or telephone number below. The offer for term assignment will expire on October 15th, 2021, unless extended by COG prior to that date.

In the interest of time, if we do not reach an agreement within 30 days of the date of this letter, COG will apply to the New Mexico Oil Conservation Division for compulsory pooling of your interest into a horizontal spacing unit for the proposed wells.

Please indicate your participation elections in the spaces 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 [ryan.curry@conocophillips.com](mailto:ryan.curry@conocophillips.com).

If you have any questions, please do not hesitate to contact me at 432-253-9744

Sincerely,

**COG Operating LLC**



Ryan Curry  
Landman  
[ryan.curry@conocophillips.com](mailto:ryan.curry@conocophillips.com)

\_\_\_\_\_ I/We hereby elect to participate in the drilling and completion of the  
**Gin and Tectonic Federal Com #504H**

\_\_\_\_\_ I/We hereby elect **not** to participate in the drilling and completion of the  
**Gin and Tectonic Federal Com #504H**

\_\_\_\_\_ I/We hereby elect to participate in the drilling and completion of the  
**Gin and Tectonic Federal Com #505H**

\_\_\_\_\_ I/We hereby elect **not** to participate in the drilling and completion of the  
**Gin and Tectonic Federal Com #505H**

\_\_\_\_\_ I/We hereby elect to participate in the drilling and completion of the  
**Gin and Tectonic Federal Com #506H**

\_\_\_\_\_ I/We hereby elect **not** to participate in the drilling and completion of the  
**Gin and Tectonic Federal Com #506H**

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

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

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

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



ConocoPhillips  
600 W. Illinois Ave.  
Midland, TX 79701  
www.conocophillips.com

9/15/2021

**Company**  
**Address**  
**City State Zip**

*Via Certified Mail, Return Receipt Requested*

Re: **Well Proposal- Gin and Tectonic Federal Com Wells**  
Township 24 South, Range 32 East, N.M.P.M.  
Section 5: Lots 1 & 2, S/2NE/4, SE/4 (E/2)  
Township 23 South, Range 32 East, N.M.P.M.  
Section 32: E/2  
639.13 Acres, more or less – Wolfcamp Formation  
Lea County, New Mexico

Dear Sir or Madam:

COG Operating LLC (“COG”) previously proposed multiple Gin and Tectonic wells covering lands in Section 5, T24S-R32E and Section 32, T23S-R32E, N.M.P.M., Lea County, New Mexico. COG hereby rescinds all previous Gin and Tectonic Wolfcamp well proposals covering the legal descriptions listed above and the associated Operating Agreements. Due to a more favorable price environment and offset data, COG is proposing the Gin and Tectonic project with the following:

COG Operating LLC (“COG”), as Operator, hereby proposes the drilling of the following horizontal wells with productive laterals located in Lots 1 & 2, S/2NE/4, SE/4 (E/2) of Section 5, T24S-R32E, and the E/2 of Section 32, T23S-R32E, Lea County, New Mexico (collectively, the “Operation”). The surface locations will be located in the S/2SE/4 of Section 5, T24S-R32E (or another legal location chosen by Operator).

- **Gin and Tectonic Federal Com 701H**, to be drilled to a depth sufficient to test the Wolfcamp formation at an approximate total vertical depth of 12,215 feet. The estimated surface hole location for this well is proposed at approximately 220’ FSL, 970’ FEL of Section 5, or a legal location in Section 5. The first take point for this well is estimated at approximately 100’ FSL, 330’ FEL of Section 5, and the last take point is estimated at approximately 100’ FNL, 330’ FEL of Section 32. The estimated bottom hole location for this well is proposed at approximately 50’ FNL, 330’ FEL of Section 32, or a legal location in Section 32. The dedicated horizontal spacing unit will be Lots 1 & 2, S/2NE/4, SE/4 (E/2) of Section 5, T24S-R32E, and the E/2 of Section 32, T23S-R32E, Lea County, New Mexico. The total estimated cost to drill and complete said well is \$8,563,965.00, as shown on the attached Authority for Expenditure (“AFE”).
- **Gin and Tectonic Federal Com 702H**, to be drilled to a depth sufficient to test the Wolfcamp formation at an approximate total vertical depth of 12,335 feet. The estimated surface hole location for this well is proposed at approximately 220’ FSL, 1,000’ FEL of Section 5, or a legal location in Section 5. The first take point for this well is estimated at approximately 100’ FSL, 1,000’ FEL of Section 5, and the last take point is estimated at approximately 100’ FNL, 1,000’ FEL of Section 32. The estimated bottom hole location for this well is proposed at approximately 50’ FNL, 1,000’ FEL of Section 32, or a legal location in Section 32. The dedicated horizontal spacing unit will be Lots 1 & 2, S/2NE/4, SE/4 (E/2) of Section 5, T24S-R32E, and the E/2 of Section 32, T23S-R32E, Lea County, New Mexico. The total estimated cost to drill and complete said well is \$8,563,965.00, as shown on the attached Authority for Expenditure (“AFE”).



- **Gin and Tectonic Federal Com 703H**, to be drilled to a depth sufficient to test the Wolfcamp formation at an approximate total vertical depth of 12,210 feet. The estimated surface hole location for this well is proposed at approximately 220' FSL, 1,030' FEL of Section 5, or a legal location in Section 5. The first take point for this well is estimated at approximately 100' FSL, 1,650' FEL of Section 5, and the last take point is estimated at approximately 100' FNL, 1,650' FEL of Section 32. The estimated bottom hole location for this well is proposed at approximately 50' FNL, 1,650' FEL of Section 32, or a legal location in Section 32. The dedicated horizontal spacing unit will be Lots 1 & 2, S/2NE/4, SE/4 (E/2) of Section 5, T24S-R32E, and the E/2 of Section 32, T23S-R32E, Lea County, New Mexico. The total estimated cost to drill and complete said well is \$8,563,965.00, as shown on the attached Authority for Expenditure ("AFE").
- **Gin and Tectonic Federal Com 704H**, to be drilled to a depth sufficient to test the Wolfcamp formation at an approximate total vertical depth of 12,290 feet. The estimated surface hole location for this well is proposed at approximately 300' FSL, 2,625' FEL of Section 5, or a legal location in Section 5. The first take point for this well is estimated at approximately 100' FSL, 2,310' FEL of Section 5, and the last take point is estimated at approximately 100' FNL, 2,310' FEL of Section 32. The estimated bottom hole location for this well is proposed at approximately 50' FNL, 2,310' FEL of Section 32, or a legal location in Section 32. The dedicated horizontal spacing unit will be Lots 1 & 2, S/2NE/4, SE/4 (E/2) of Section 5, T24S-R32E, and the E/2 of Section 32, T23S-R32E, Lea County, New Mexico. The total estimated cost to drill and complete said well is \$8,563,965.00, as shown on the attached Authority for Expenditure ("AFE").

COG is proposing these wells under the terms of a new Operating Agreement which is included for your review and approval. It has the following general provisions:

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

If you do not wish to participate in the Operation, COG would like to discuss the term assignment of your interest to COG under the following indicative terms:

- \$5,000/net acres bonus, with an effective NRI of 80%, delivered to assignee;
- 3 Year Primary Term; and
- Overriding Royalty Interest reserved unto assignor of the positive difference (if any) between existing burdens of record and 20%

Please indicate your desire to term assign your Working Interest to COG by contacting me at the email or telephone number below. The offer for term assignment will expire on October 15<sup>th</sup>, 2021, unless extended by COG prior to that date.

In the interest of time, if we do not reach an agreement within 30 days of the date of this letter, COG will apply to the New Mexico Oil Conservation Division for compulsory pooling of your interest into a horizontal spacing unit for the proposed wells.

Please indicate your participation elections in the spaces 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 [ryan.curry@conocophillips.com](mailto:ryan.curry@conocophillips.com).

If you have any questions, please do not hesitate to contact me at 432-253-9744

Sincerely,

**COG Operating LLC**

A handwritten signature in black ink that reads "Ryan B. Curry". The signature is written in a cursive style and is positioned above a dashed horizontal line.

Ryan Curry  
Landman  
[ryan.curry@conocophillips.com](mailto:ryan.curry@conocophillips.com)

\_\_\_\_\_ I/We hereby elect to participate in the drilling and completion of the  
**Gin and Tectonic Federal Com #701H**  
 \_\_\_\_\_ I/We hereby elect **not** to participate in the drilling and completion of the  
**Gin and Tectonic Federal Com #701H**

\_\_\_\_\_ I/We hereby elect to participate in the drilling and completion of the  
**Gin and Tectonic Federal Com #702H**  
 \_\_\_\_\_ I/We hereby elect **not** to participate in the drilling and completion of the  
**Gin and Tectonic Federal Com #702H**

\_\_\_\_\_ I/We hereby elect to participate in the drilling and completion of the  
**Gin and Tectonic Federal Com #703H**  
 \_\_\_\_\_ I/We hereby elect **not** to participate in the drilling and completion of the  
**Gin and Tectonic Federal Com #703H**

\_\_\_\_\_ I/We hereby elect to participate in the drilling and completion of the  
**Gin and Tectonic Federal Com #704H**  
 \_\_\_\_\_ I/We hereby elect **not** to participate in the drilling and completion of the  
**Gin and Tectonic Federal Com #704H**

By: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Date: \_\_\_\_\_



ConocoPhillips  
600 W. Illinois Ave.  
Midland, TX 79701  
www.conocophillips.com

9/15/2021

**Company**  
**Address**  
**City State Zip**

*Via Certified Mail, Return Receipt Requested*

Re: **Well Proposal- Gin and Tectonic Federal Com Wells**  
Township 24 South, Range 32 East, N.M.P.M.  
Section 5: Lots 3 & 4, S/2NW/4, SW/4 (W/2)  
Township 23 South, Range 32 East, N.M.P.M.  
Section 32: W/2  
639.87 Acres, more or less – Wolfcamp Formation  
Lea County, New Mexico

Dear Sir or Madam:

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COG Operating LLC (“COG”), as Operator, hereby proposes the drilling of the following horizontal wells with productive laterals located in Lots 3 & 4, S/2NW/4, SW/4 (W/2) of Section 5, T24S-R32E, and the W/2 of Section 32, T23S-R32E, Lea County, New Mexico (collectively, the “Operation”). The surface locations will be located in the S/2SW/4 of Section 5, T24S-R32E (or another legal location chosen by Operator).

- **Gin and Tectonic Federal Com 705H**, to be drilled to a depth sufficient to test the Wolfcamp formation at an approximate total vertical depth of 12,160 feet. The estimated surface hole location for this well is proposed at approximately 300’ FSL, 2,620’ FWL of Section 5, or a legal location in Section 5. The first take point for this well is estimated at approximately 100’ FSL, 2,310’ FWL of Section 5, and the last take point is estimated at approximately 100’ FNL, 2,310’ FWL of Section 32. The estimated bottom hole location for this well is proposed at approximately 50’ FNL, 2,310’ FWL of Section 32, or a legal location in Section 32. The dedicated horizontal spacing unit will be Lots 3 & 4, S/2NW/4, SW/4 (W/2) of Section 5, T24S-R32E, and the W/2 of Section 32, T23S-R32E, Lea County, New Mexico. The total estimated cost to drill and complete said well is \$8,563,965.00. Additionally, COG is proposing the drilling of a pilot hole in this well, to be drilled down to 12,740’ TVD. The total estimated cost to drill said pilot hole is \$879,300.00. The estimated total cost to drill and complete said well and drill the pilot hole is \$9,443,265.00 as shown on the attached Authority for Expenditure (“AFE”).

- **Gin and Tectonic Federal Com 706H**, to be drilled to a depth sufficient to test the Wolfcamp formation at an approximate total vertical depth of 12,230 feet. The estimated surface hole location for this well is proposed at approximately 250' FSL, 1,030' FWL of Section 5, or a legal location in Section 5. The first take point for this well is estimated at approximately 100' FSL, 1,650' FWL of Section 5, and the last take point is estimated at approximately 100' FNL, 1,650' FWL of Section 32. The estimated bottom hole location for this well is proposed at approximately 50' FNL, 1,650' FWL of Section 32, or a legal location in Section 32. The dedicated horizontal spacing unit will be Lots 3 & 4, S/2NW/4, SW/4 (W/2) of Section 5, T24S-R32E, and the W/2 of Section 32, T23S-R32E, Lea County, New Mexico. The total estimated cost to drill and complete said well is \$8,563,965.00, as shown on the attached Authority for Expenditure ("AFE").
- **Gin and Tectonic Federal Com 707H**, to be drilled to a depth sufficient to test the Wolfcamp formation at an approximate total vertical depth of 12,100 feet. The estimated surface hole location for this well is proposed at approximately 250' FSL, 1,000' FWL of Section 5, or a legal location in Section 5. The first take point for this well is estimated at approximately 100' FSL, 1,000' FWL of Section 5, and the last take point is estimated at approximately 100' FNL, 1,000' FWL of Section 32. The estimated bottom hole location for this well is proposed at approximately 50' FNL, 1,000' FWL of Section 32, or a legal location in Section 32. The dedicated horizontal spacing unit will be Lots 3 & 4, S/2NW/4, SW/4 (W/2) of Section 5, T24S-R32E, and the W/2 of Section 32, T23S-R32E, Lea County, New Mexico. The total estimated cost to drill and complete said well is \$8,563,965.00, as shown on the attached Authority for Expenditure ("AFE").
- **Gin and Tectonic Federal Com 708H**, to be drilled to a depth sufficient to test the Wolfcamp formation at an approximate total vertical depth of 12,225 feet. The estimated surface hole location for this well is proposed at approximately 250' FSL, 970' FWL of Section 5, or a legal location in Section 5. The first take point for this well is estimated at approximately 100' FSL, 330' FWL of Section 5, and the last take point is estimated at approximately 100' FNL, 330' FWL of Section 32. The estimated bottom hole location for this well is proposed at approximately 50' FNL, 330' FWL of Section 32, or a legal location in Section 32. The dedicated horizontal spacing unit will be Lots 3 & 4, S/2NW/4, SW/4 (W/2) of Section 5, T24S-R32E, and the W/2 of Section 32, T23S-R32E, Lea County, New Mexico. The total estimated cost to drill and complete said well is \$8,563,965.00, as shown on the attached Authority for Expenditure ("AFE").

COG is proposing these wells under the terms of a new Operating Agreement which is included for your review and approval. It has the following general provisions:

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

If you do not wish to participate in the Operation, COG would like to discuss the term assignment of your interest to COG under the following indicative terms:

- \$5,000/net acres bonus, with an effective NRI of 80%, delivered to assignee;
- 3 Year Primary Term; and
- Overriding Royalty Interest reserved unto assignor of the positive difference (if any) between existing burdens of record and 20%

Please indicate your desire to term assign your Working Interest to COG by contacting me at the email or telephone number below. The offer for term assignment will expire on October 15th, 2021, unless extended by COG prior to that date.

In the interest of time, if we do not reach an agreement within 30 days of the date of this letter, COG will apply to the New Mexico Oil Conservation Division for compulsory pooling of your interest into a horizontal spacing unit for the proposed wells.

Please indicate your participation elections in the spaces 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 [ryan.curry@conocophillips.com](mailto:ryan.curry@conocophillips.com).

If you have any questions, please do not hesitate to contact me at 432-253-9744

Sincerely,

**COG Operating LLC**



Ryan Curry  
Landman  
[ryan.curry@conocophillips.com](mailto:ryan.curry@conocophillips.com)

\_\_\_\_\_  
I/We hereby elect to participate in the drilling and completion of the  
**Gin and Tectonic Federal Com #705H**

\_\_\_\_\_  
I/We hereby elect **not** to participate in the drilling and completion of the  
**Gin and Tectonic Federal Com #705H**

\_\_\_\_\_  
I/We hereby elect to participate in the drilling of the  
**Gin and Tectonic Federal Com #705H Pilot Hole**

\_\_\_\_\_  
I/We hereby elect **not** to participate in the drilling of the  
**Gin and Tectonic Federal Com #705H Pilot Hole**

\_\_\_\_\_  
I/We hereby elect to participate in the drilling and completion of the  
**Gin and Tectonic Federal Com #706H**

\_\_\_\_\_  
I/We hereby elect **not** to participate in the drilling and completion of the  
**Gin and Tectonic Federal Com #706H**

\_\_\_\_\_  
I/We hereby elect to participate in the drilling and completion of the  
**Gin and Tectonic Federal Com #707H**

\_\_\_\_\_  
I/We hereby elect **not** to participate in the drilling and completion of the  
**Gin and Tectonic Federal Com #707H**

\_\_\_\_\_  
I/We hereby elect to participate in the drilling and completion of the  
**Gin and Tectonic Federal Com #708H**

\_\_\_\_\_  
I/We hereby elect **not** to participate in the drilling and completion of the  
**Gin and Tectonic Federal Com #708H**

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

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

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

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

COG OPERATING LLC
AUTHORITY FOR EXPENDITURE
DRILLING

WELL NAME: GIN AND TECTONIC FED COM 504H PROSPECT NAME: Bulldog 2432
SHL: Sec 5: 250 FSL & 1325 FWL STATE & COUNTY: New Mexico, Lea
BHL: Sec 32: 50 FNL & 2178 FWL OBJECTIVE: Drill and Complete
FORMATION: Bone Spring DEPTH: 20,900
LEGAL: Sec 5: 24S 32E TVD: 10,625

Table with columns: Description, Drlg - Rig Release(D), Completion(C), Tank Btty Constrctn(TB), Pmpg Equipment(PEQ), TOTAL. Includes sub-sections for INTANGIBLE COSTS and TANGIBLE COSTS.

Table with columns: Description, Drlg - Rig Release(D), Completion(C), Tank Btty Constrctn(TB), Pmpg Equipment(PEQ), TOTAL. Includes sub-sections for TANGIBLE COSTS and TOTAL WELL COSTS.

% of Total Well Cost 40% 50% 9% 2%

COG Operating LLC Date Prepared: 9/14/21
We approve: COG Operating LLC
Company: AW-PS-CB
Printed Name:
Title:
Date: This AFE is only an estimate. By signing you agree to pay your share of the actual costs incurred.



**COG OPERATING LLC  
AUTHORITY FOR EXPENDITURE  
DRILLING**

WELL NAME: <b>GIN AND TECTONIC FED COM 505H</b>	PROSPECT NAME: Bulldog 2432
SHL: Sec 5: 250 FSL & 1295 FWL	STATE & COUNTY: New Mexico, Lea
BHL: Sec 32: 50 FNL & 1254 FWL	OBJECTIVE: Drill and Complete
FORMATION: Bone Spring	DEPTH: 20,700
LEGAL: Sec 5: 24S 32E	TVD: 10,430

	<u>Drig - Rig</u>		<u>Completion(C)</u>		<u>Tank Btty</u>		<u>Pmpg</u>		<u>TOTAL</u>
	<u>Release(D)</u>				<u>Constrctn(TB)</u>		<u>Equipment(PEQ)</u>		
<b>INTANGIBLE COSTS</b>									
Title/Curative/Permit	201	20,000							20,000
Insurance	202	2,500	302						2,500
Damages/Right of Way	203	20,000	303			963			20,963
Survey/Stake Location	204	7,000	304		80,000	352			87,000
Location/Pits/Road Expense	205	165,000	305		5,000	353	23,779	366	197,779
Drilling / Completion Overhead	206	6,000	306		12,500				18,500
Turnkey Contract	207		307		702,000				702,000
Footage Contract	208		308		241,000				241,000
Daywork Contract	209	440,000	309		276,000				716,000
Directional Drilling Services	210	227,000	310		400,000				627,000
Fuel & Power	211	126,000	311		36,000	354		367	162,000
Water	212	120,000	312		511,000			368	631,000
Bits	213	83,000	313					369	83,000
Mud & Chemicals	214	90,000	314					370	90,000
Drill Stem Test	215		315		315,000				315,000
Coring & Analysis	216								0
Cement Surface	217	40,920							40,920
Cement Intermediate	218	61,380							61,380
Cement 2nd Intermediate/Production	219	132,990							132,990
Cement Squeeze & Other (Kickoff Plug)	220							371	0
Float Equipment & Centralizers	221	65,000							65,000
Casing Crews & Equipment	222	55,000							55,000
Fishing Tools & Service	223		323					372	0
Geologic/Engineering	224		324			355		373	0
Contract Labor	225	6,500	325		2,000	356	73,713	374	100,213
Company Supervision	226	36,000	326		15,000	357	2,888	375	53,888
Contract Supervision	227	80,000	327		128,000	358		376	208,000
Testing Casing/Tubing	228	40,000	328					377	40,000
Mud Logging Unit	229	31,000	329		48,000				79,000
Logging	230							378	0
Perforating/Wireline Services	231		331		242,000			379	242,000
Stimulation/Treating			332					380	0
Completion Unit			333					381	0
Swabbing Unit			334					382	0
Rentals-Surface	235	125,000	335			359		383	125,000
Rentals-Subsurface	236	80,000	336					384	80,000
Trucking/Forklift/Rig Mobilization	237	200,000	337		10,000	360		385	210,000
Welding Services	238	3,000	338			361		386	3,000
Water Disposal	239		339		20,000	362		387	20,000
Plug to Abandon	240		340						0
Seismic Analysis	241		341						0
Miscellaneous	242		342		3,000			389	3,000
Contingency	243	66,000	343		73,000	363		390	139,000
Closed Loop & Environmental	244	205,000	344			364		388	205,000
Fuel - Diesel	245		345		314,000				314,000
Coil Tubing			346		241,000			392	241,000
Flowback Crews & Equip			347		10,000			391	10,000
Offset Directional/Frac	248		348						0
<b>TOTAL INTANGIBLES</b>		<b>2,534,290</b>			<b>3,684,500</b>		<b>101,343</b>	<b>40,000</b>	<b>6,360,133</b>

<b>TANGIBLE COSTS</b>									
Surface Casing	401	54,000							54,000
Intermediate Casing	402	145,000							145,000
Production Casing/Liner	403	285,000							285,000
Tubing			504		52,000			530	52,000
Wellhead Equipment	405	65,000	505		20,000			531	117,000
Pumping Unit								506	0
Prime Mover								507	0
Rods								508	0
Pumps-Sub Surface (BH)			509		135,000			532	135,000
Tanks						510	44,361		44,361
Flowlines						511	80,866		80,866
Heater Treater/Separator						512	184,000		184,000
Electrical System						513	39,018	533	49,018
Packers/Anchors/Hangers	414		514					534	0
Couplings/Fittings/Valves	415					515	117,778		117,778
Gas Lift/Compression						516			0
Dehydration						517			0
Injection Plant/CO2 Equipment						518			0
Pumps-Surface						521	24,693		24,693
Instrumentation/SCADA/POC						522	16,722	529	31,722
Miscellaneous	419		519			523		535	0
Contingency	420		520			524		536	0
Meters/LACT						525			0
Flares/Combusters/Emission						526	75,514		75,514
Gas Lift/Compression			527					528	37,000
<b>TOTAL TANGIBLES</b>		<b>549,000</b>			<b>207,000</b>		<b>582,952</b>	<b>94,000</b>	<b>1,432,952</b>
<b>TOTAL WELL COSTS</b>		<b>3,083,290</b>			<b>3,891,500</b>		<b>684,295</b>	<b>134,000</b>	<b>7,793,085</b>

COG Operating LLC % of Total Well Cost 40% 50% 9% 2%

Date Prepared: 9/14/21

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

COG Operating LLC

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

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

AW-PS-CB

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

**COG OPERATING LLC  
AUTHORITY FOR EXPENDITURE  
DRILLING**

WELL NAME: <b>GIN AND TECTONIC FED COM 506H</b>	PROSPECT NAME: Bulldog 2432
SHL: Sec 5: 250 FSL & 1265 FWL	STATE & COUNTY: New Mexico, Lea
BHL: Sec 32: 50 FNL & 330 FWL	OBJECTIVE: Drill and Complete
FORMATION: Bone Spring	DEPTH: 20,800
LEGAL: Sec 5: 24S 32E	TVD: 10,575

		<b>Drig - Rig Release(D)</b>	<b>Completion(C)</b>	<b>Tank Btty Constrctn(TB)</b>	<b>Pmpg Equipment(PEQ)</b>	<b>TOTAL</b>			
<b>INTANGIBLE COSTS</b>									
Title/Curative/Permit	201	20,000				20,000			
Insurance	202	2,500	302			2,500			
Damages/Right of Way	203	20,000	303			20,963			
Survey/Stake Location	204	7,000	304	80,000	352	87,000			
Location/Pits/Road Expense	205	165,000	305	5,000	353	23,779	366	4,000	197,779
Drilling / Completion Overhead	206	6,000	306	12,500					18,500
Turnkey Contract	207		307	702,000					702,000
Footage Contract	208		308	241,000					241,000
Daywork Contract	209	440,000	309	276,000					716,000
Directional Drilling Services	210	227,000	310	400,000					627,000
Fuel & Power	211	126,000	311	36,000	354		367		162,000
Water	212	120,000	312	511,000			368		631,000
Bits	213	83,000	313				369		83,000
Mud & Chemicals	214	90,000	314				370		90,000
Drill Stem Test	215		315	315,000					315,000
Coring & Analysis	216								0
Cement Surface	217	40,920							40,920
Cement Intermediate	218	61,380							61,380
Cement 2nd Intermediate/Production	219	132,990							132,990
Cement Squeeze & Other (Kickoff Plug)	220						371		0
Float Equipment & Centralizers	221	65,000							65,000
Casing Crews & Equipment	222	55,000							55,000
Fishing Tools & Service	223		323				372		0
Geologic/Engineering	224		324		355		373		0
Contract Labor	225	6,500	325	2,000	356	73,713	374	18,000	100,213
Company Supervision	226	36,000	326	15,000	357	2,888	375		53,888
Contract Supervision	227	80,000	327	128,000	358		376		208,000
Testing Casing/Tubing	228	40,000	328				377		40,000
Mud Logging Unit	229	31,000	329	48,000					79,000
Logging	230						378		0
Perforating/Wireline Services	231		331	242,000			379		242,000
Stimulation/Treating			332				380		0
Completion Unit			333				381		0
Swabbing Unit			334				382		0
Rentals-Surface	235	125,000	335		359		383		125,000
Rentals-Subsurface	236	80,000	336				384		80,000
Trucking/Forklift/Rig Mobilization	237	200,000	337	10,000	360		385		210,000
Welding Services	238	3,000	338		361		386		3,000
Water Disposal	239		339	20,000	362		387		20,000
Plug to Abandon	240		340						0
Seismic Analysis	241		341						0
Miscellaneous	242		342	3,000			389		3,000
Contingency	243	66,000	343	73,000	363		390		139,000
Closed Loop & Environmental	244	205,000	344		364		388		205,000
Fuel - Diesel	245		345	314,000					314,000
Coil Tubing			346	241,000			392		241,000
Flowback Crews & Equip			347	10,000			391	18,000	28,000
Offset Directional/Frac	248		348						0
<b>TOTAL INTANGIBLES</b>		<b>2,534,290</b>		<b>3,684,500</b>		<b>101,343</b>		<b>40,000</b>	<b>6,360,133</b>

<b>TANGIBLE COSTS</b>									
Surface Casing	401	54,000				54,000			
Intermediate Casing	402	145,000				145,000			
Production Casing/Liner	403	285,000				285,000			
Tubing			504	52,000		52,000			
Wellhead Equipment	405	65,000	505	20,000		530	32,000	117,000	
Pumping Unit						506		0	
Prime Mover						507		0	
Rods						508		0	
Pumps-Sub Surface (BH)			509	135,000		532		135,000	
Tanks					510	44,361		44,361	
Flowlines					511	80,866		80,866	
Heater Treater/Separator					512	184,000		184,000	
Electrical System					513	39,018	533	10,000	49,018
Packers/Anchors/Hangers	414		514				534		0
Couplings/Fittings/Vaives	415				515	117,778		117,778	
Gas Lift/Compression					516			0	
Dehydration					517			0	
Injection Plant/CO2 Equipment					518			0	
Pumps-Surface					521	24,693		24,693	
Instrumentation/SCADA/POC					522	16,722	529	15,000	31,722
Miscellaneous	419		519		523		535		0
Contingency	420		520		524		536		0
Meters/LACT					525			0	
Flares/Combusters/Emission					526	75,514		75,514	
Gas Lift/Compression			527				528	37,000	37,000
<b>TOTAL TANGIBLES</b>		<b>549,000</b>		<b>207,000</b>		<b>582,952</b>		<b>94,000</b>	<b>1,432,952</b>
<b>TOTAL WELL COSTS</b>		<b>3,083,290</b>		<b>3,891,500</b>		<b>684,295</b>		<b>134,000</b>	<b>7,793,085</b>

<b>% of Total Well Cost</b>	<b>40%</b>	<b>50%</b>	<b>9%</b>	<b>2%</b>
COG Operating LLC				

Date Prepared: 9/14/21

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

COG Operating LLC

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

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

AW-PS-CB

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

**COG OPERATING LLC  
AUTHORITY FOR EXPENDITURE  
DRILLING**

WELL NAME: <b>GIN AND TECTONIC FED COM 701H</b>	PROSPECT NAME: Bulldog 2432
SHL: Sec 5: 220 FSL & 970 FEL	STATE & COUNTY: New Mexico, Lea
BHL: Sec 32: 50 FNL & 330 FEL	OBJECTIVE: Drill and Complete
FORMATION: Wolfcamp	DEPTH: 22,500
LEGAL: Sec 5: 24S 32E	TVD: 12,215

		<b>Drig - Rig</b>			<b>Tank Btty</b>		<b>Pmpg</b>	
		<b>Release(D)</b>		<b>Completion(C)</b>	<b>Constrctn(TB)</b>		<b>Equipment(PEQ)</b>	<b>TOTAL</b>
Title/Curative/Permit	201	20,000						20,000
Insurance	202	2,500	302					2,500
Damages/Right of Way	203	20,000	303		963			20,963
Survey/Stake Location	204	7,000	304	80,000	352			87,000
Location/Pits/Road Expense	205	165,000	305	5,000	353	23,779	366	197,779
Drilling / Completion Overhead	206	6,900	306	12,500				19,400
Turnkey Contract	207		307	771,000				771,000
Footage Contract	208		308	290,000				290,000
Daywork Contract	209	497,000	309	263,000				760,000
Directional Drilling Services	210	319,000	310	400,000				719,000
Fuel & Power	211	145,000	311	36,000	354		367	181,000
Water	212	55,000	312	511,000			368	566,000
Bits	213	115,000	313				369	115,000
Mud & Chemicals	214	236,900	314				370	236,900
Drill Stem Test	215		315	315,000				315,000
Coring & Analysis	216							0
Cement Surface	217	20,900						20,900
Cement Intermediate	218	92,070						92,070
Cement 2nd Intermediate/Production	219	93,500						93,500
Cement Squeeze & Other (Kickoff Plug)	220						371	0
Float Equipment & Centralizers	221	60,000						60,000
Casing Crews & Equipment	222	55,000						55,000
Fishing Tools & Service	223		323				372	0
Geologic/Engineering	224		324		355		373	0
Contract Labor	225	6,500	325	2,000	356	73,713	374	100,213
Company Supervision	226	41,400	326	15,000	357	2,888	375	59,288
Contract Supervision	227	90,000	327	128,000	358		376	218,000
Testing Casing/Tubing	228	40,000	328				377	40,000
Mud Logging Unit	229	39,000	329	48,000				87,000
Logging	230						378	0
Perforating/Wireline Services	231	10,000	331	242,000			379	252,000
Stimulation/Treating			332				380	0
Completion Unit			333				381	0
Swabbing Unit			334				382	0
Rentals-Surface	235	143,750	335		359		383	143,750
Rentals-Subsurface	236	138,000	336				384	138,000
Trucking/Forklift/Rig Mobilization	237	200,000	337	10,000	360		385	210,000
Welding Services	238	6,000	338		361		386	6,000
Water Disposal	239		339	20,000	362		387	20,000
Plug to Abandon	240		340					0
Seismic Analysis	241		341					0
Miscellaneous	242		342	3,000			389	3,000
Contingency	243	76,000	343	76,000	363		390	152,000
Closed Loop & Environmental	244	235,750	344		364		388	235,750
Fuel - Diesel	245		345	351,000				351,000
Coil Tubing			346	248,000			392	248,000
Flowback Crews & Equip			347	10,000			391	18,000
Offset Directional/Frac	248		348					0
<b>TOTAL INTANGIBLES</b>		<b>2,937,170</b>		<b>3,836,500</b>		<b>101,343</b>	<b>40,000</b>	<b>6,915,013</b>

<b>TANGIBLE COSTS</b>								
Surface Casing	401	32,000						32,000
Intermediate Casing	402	280,000						280,000
Production Casing/Liner	403	430,000						430,000
Tubing			504	52,000			530	52,000
Wellhead Equipment	405	70,000	505	28,000			531	130,000
Pumping Unit							506	0
Prime Mover							507	0
Rods							508	0
Pumps-Sub Surface (BH)			509				532	0
Tanks					510	44,361		44,361
Flowlines					511	80,866		80,866
Heater Treater/Separator					512	184,000		184,000
Electrical System					513	39,018	533	49,018
Packers/Anchors/Hangers	414		514	60,000			534	60,000
Couplings/Fittings/Vaives	415				515	117,778		117,778
Gas Lift/Compression					516			0
Dehydration					517			0
Injection Plant/CO2 Equipment					518			0
Pumps-Surface					521	24,693		24,693
Instrumentation/SCADA/POC					522	16,722	529	31,722
Miscellaneous	419		519		523		535	0
Contingency	420		520		524		536	0
Meters/LACT					525			0
Flares/Combusters/Emission					526	75,514		75,514
Gas Lift/Compression			527	20,000			528	57,000
<b>TOTAL TANGIBLES</b>		<b>812,000</b>		<b>160,000</b>		<b>582,952</b>	<b>94,000</b>	<b>1,648,952</b>
<b>TOTAL WELL COSTS</b>		<b>3,749,170</b>		<b>3,996,500</b>		<b>684,295</b>	<b>134,000</b>	<b>8,563,965</b>

<b>% of Total Well Cost</b>	<b>44%</b>	<b>47%</b>	<b>8%</b>	<b>2%</b>
COG Operating LLC				

Date Prepared: 9/14/21

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

COG Operating LLC

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

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

AW-PS-CB

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**COG OPERATING LLC  
AUTHORITY FOR EXPENDITURE  
DRILLING**

WELL NAME: <b>GIN AND TECTONIC FED COM 702H</b>	PROSPECT NAME: Bulldog 2432
SHL: Sec 5: 220 FSL & 1000 FEL	STATE & COUNTY: New Mexico, Lea
BHL: Sec 32: 50 FNL & 1000 FEL	OBJECTIVE: Drill and Complete
FORMATION: Wolfcamp	DEPTH: 22,600
LEGAL: Sec 5: 24S 32E	TVD: 12,335

		<b>Drig - Rig Release(D)</b>	<b>Completion(C)</b>	<b>Tank Btty Constrctn(TB)</b>	<b>Pmpg Equipment(PEQ)</b>	<b>TOTAL</b>
<b>INTANGIBLE COSTS</b>						
Title/Curative/Permit	201	20,000				20,000
Insurance	202	2,500	302			2,500
Damages/Right of Way	203	20,000	303			20,963
Survey/Stake Location	204	7,000	304			87,000
Location/Pits/Road Expense	205	165,000	305			197,779
Drilling / Completion Overhead	206	6,900	306			19,400
Turnkey Contract	207		307			771,000
Footage Contract	208		308			290,000
Daywork Contract	209	497,000	309			760,000
Directional Drilling Services	210	319,000	310			719,000
Fuel & Power	211	145,000	311			181,000
Water	212	55,000	312			566,000
Bits	213	115,000	313			115,000
Mud & Chemicals	214	236,900	314			236,900
Drill Stem Test	215		315			315,000
Coring & Analysis	216					0
Cement Surface	217	20,900				20,900
Cement Intermediate	218	92,070				92,070
Cement 2nd Intermediate/Production	219	93,500				93,500
Cement Squeeze & Other (Kickoff Plug)	220					0
Float Equipment & Centralizers	221	60,000				60,000
Casing Crews & Equipment	222	55,000				55,000
Fishing Tools & Service	223		323			0
Geologic/Engineering	224		324			0
Contract Labor	225	6,500	325			100,213
Company Supervision	226	41,400	326			59,288
Contract Supervision	227	90,000	327			218,000
Testing Casing/Tubing	228	40,000	328			40,000
Mud Logging Unit	229	39,000	329			87,000
Logging	230					0
Perforating/Wireline Services	231	10,000	331			252,000
Stimulation/Treating			332			0
Completion Unit			333			0
Swabbing Unit			334			0
Rentals-Surface	235	143,750	335			143,750
Rentals-Subsurface	236	138,000	336			138,000
Trucking/Forklift/Rig Mobilization	237	200,000	337			210,000
Welding Services	238	6,000	338			6,000
Water Disposal	239		339			20,000
Plug to Abandon	240		340			0
Seismic Analysis	241		341			0
Miscellaneous	242		342			3,000
Contingency	243	76,000	343			152,000
Closed Loop & Environmental	244	235,750	344			235,750
Fuel - Diesel	245		345			351,000
Coil Tubing			346			248,000
Flowback Crews & Equip			347			18,000
Offset Directional/Frac	248		348			0
<b>TOTAL INTANGIBLES</b>		<b>2,937,170</b>	<b>3,836,500</b>	<b>101,343</b>	<b>40,000</b>	<b>6,915,013</b>

<b>TANGIBLE COSTS</b>						
Surface Casing	401	32,000				32,000
Intermediate Casing	402	280,000				280,000
Production Casing/Liner	403	430,000				430,000
Tubing			504			52,000
Wellhead Equipment	405	70,000	505			130,000
Pumping Unit						0
Prime Mover						0
Rods						0
Pumps-Sub Surface (BH)			509			0
Tanks				510		44,361
Flowlines				511		80,866
Heater Treater/Separator				512		184,000
Electrical System				513		49,018
Packers/Anchors/Hangers	414		514			60,000
Couplings/Fittings/Vaives	415			515		117,778
Gas Lift/Compression				516		0
Dehydration				517		0
Injection Plant/CO2 Equipment				518		0
Pumps-Surface				521		24,693
Instrumentation/SCADA/POC				522		31,722
Miscellaneous	419		519			0
Contingency	420		520			0
Meters/LACT				525		0
Flares/Combusters/Emission				526		75,514
Gas Lift/Compression			527			57,000
<b>TOTAL TANGIBLES</b>		<b>812,000</b>	<b>160,000</b>	<b>582,952</b>	<b>94,000</b>	<b>1,648,952</b>
<b>TOTAL WELL COSTS</b>		<b>3,749,170</b>	<b>3,996,500</b>	<b>684,295</b>	<b>134,000</b>	<b>8,563,965</b>

<b>% of Total Well Cost</b>	<b>44%</b>	<b>47%</b>	<b>8%</b>	<b>2%</b>
COG Operating LLC				

Date Prepared: 9/14/21

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

COG Operating LLC

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

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

AW-PS-CB

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

**COG OPERATING LLC  
AUTHORITY FOR EXPENDITURE  
DRILLING**

WELL NAME: <b>GIN AND TECTONIC FED COM 703H</b>	PROSPECT NAME: Bulldog 2432
SHL: Sec 5: 220 FSL & 1030 FEL	STATE & COUNTY: New Mexico, Lea
BHL: Sec 32: 50 FNL & 1650 FEL	OBJECTIVE: Drill and Complete
FORMATION: Wolfcamp	DEPTH: 22,400
LEGAL: Sec 5: 24S 32E	TVD: 12,210

		<b>Drig - Rig Release(D)</b>	<b>Completion(C)</b>	<b>Tank Btty Constrctn(TB)</b>	<b>Pmpg Equipment(PEQ)</b>	<b>TOTAL</b>
<b>INTANGIBLE COSTS</b>						
Title/Curative/Permit	201	20,000				20,000
Insurance	202	2,500	302			2,500
Damages/Right of Way	203	20,000	303			20,963
Survey/Stake Location	204	7,000	304	80,000	352	87,000
Location/Pits/Road Expense	205	165,000	305	5,000	353	23,779
Drilling / Completion Overhead	206	6,900	306	12,500		19,400
Turnkey Contract	207		307	771,000		771,000
Footage Contract	208		308	290,000		290,000
Daywork Contract	209	497,000	309	263,000		760,000
Directional Drilling Services	210	319,000	310	400,000		719,000
Fuel & Power	211	145,000	311	36,000	354	367
Water	212	55,000	312	511,000		368
Bits	213	115,000	313			369
Mud & Chemicals	214	236,900	314			370
Drill Stem Test	215		315	315,000		
Coring & Analysis	216					
Cement Surface	217	20,900				
Cement Intermediate	218	92,070				
Cement 2nd Intermediate/Production	219	93,500				
Cement Squeeze & Other (Kickoff Plug)	220				371	
Float Equipment & Centralizers	221	60,000				
Casing Crews & Equipment	222	55,000				
Fishing Tools & Service	223		323			372
Geologic/Engineering	224		324		355	373
Contract Labor	225	6,500	325	2,000	356	73,713
Company Supervision	226	41,400	326	15,000	357	2,888
Contract Supervision	227	90,000	327	128,000	358	
Testing Casing/Tubing	228	40,000	328			377
Mud Logging Unit	229	39,000	329	48,000		
Logging	230					378
Perforating/Wireline Services	231	10,000	331	242,000		379
Stimulation/Treating			332			380
Completion Unit			333			381
Swabbing Unit			334			382
Rentals-Surface	235	143,750	335		359	
Rentals-Subsurface	236	138,000	336			384
Trucking/Forklift/Rig Mobilization	237	200,000	337	10,000	360	
Welding Services	238	6,000	338		361	
Water Disposal	239		339	20,000	362	
Plug to Abandon	240		340			
Seismic Analysis	241		341			
Miscellaneous	242		342	3,000		389
Contingency	243	76,000	343	76,000	363	
Closed Loop & Environmental	244	235,750	344		364	
Fuel - Diesel	245		345	351,000		
Coil Tubing			346	248,000		392
Flowback Crews & Equip			347	10,000		391
Offset Directional/Frac	248		348			
<b>TOTAL INTANGIBLES</b>		<b>2,937,170</b>		<b>3,836,500</b>		<b>101,343</b>
					<b>40,000</b>	<b>6,915,013</b>

<b>TANGIBLE COSTS</b>						
Surface Casing	401	32,000				32,000
Intermediate Casing	402	280,000				280,000
Production Casing/Liner	403	430,000				430,000
Tubing			504	52,000		530
Wellhead Equipment	405	70,000	505	28,000		531
Pumping Unit						506
Prime Mover						507
Rods						508
Pumps-Sub Surface (BH)			509			532
Tanks				510	44,361	44,361
Flowlines				511	80,866	80,866
Heater Treater/Separator				512	184,000	184,000
Electrical System				513	39,018	533
Packers/Anchors/Hangers	414		514	60,000		534
Couplings/Fittings/Vaives	415			515	117,778	
Gas Lift/Compression				516		
Dehydration				517		
Injection Plant/CO2 Equipment				518		
Pumps-Surface				521	24,693	
Instrumentation/SCADA/POC				522	16,722	529
Miscellaneous	419		519			535
Contingency	420		520			536
Meters/LACT				525		
Flares/Combusters/Emission				526	75,514	
Gas Lift/Compression			527	20,000		528
<b>TOTAL TANGIBLES</b>		<b>812,000</b>		<b>160,000</b>		<b>582,952</b>
<b>TOTAL WELL COSTS</b>		<b>3,749,170</b>		<b>3,996,500</b>		<b>134,000</b>
						<b>8,563,965</b>

<b>% of Total Well Cost</b>	<b>44%</b>	<b>47%</b>	<b>8%</b>	<b>2%</b>
COG Operating LLC				

Date Prepared: 9/14/21

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

COG Operating LLC

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

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

AW-PS-CB

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

**COG OPERATING LLC  
AUTHORITY FOR EXPENDITURE  
DRILLING**

WELL NAME: <b>GIN AND TECTONIC FED COM 704H</b>	PROSPECT NAME: Bulldog 2432
SHL: Sec 5: 300 FSL & 2625 FEL	STATE & COUNTY: New Mexico, Lea
BHL: Sec 32: 50 FNL & 2320 FEL	OBJECTIVE: Drill and Complete
FORMATION: Wolfcamp	DEPTH: 22,500
LEGAL: Sec 5: 24S 32E	TVD: 12,290

		<u>Drlg - Rig</u>			<u>Tank Btty</u>		<u>Pmpg</u>	
		<u>Release(D)</u>	<u>Completion(C)</u>		<u>Constrctn(TB)</u>		<u>Equipment(PEQ)</u>	<u>TOTAL</u>
Title/Curative/Permit	201	20,000						20,000
Insurance	202	2,500	302					2,500
Damages/Right of Way	203	20,000	303			963		20,963
Survey/Stake Location	204	7,000	304		80,000	352		87,000
Location/Pits/Road Expense	205	165,000	305		5,000	353	23,779	197,779
Drilling / Completion Overhead	206	6,900	306		12,500			19,400
Turnkey Contract	207		307	771,000				771,000
Footage Contract	208		308	290,000				290,000
Daywork Contract	209	497,000	309	263,000				760,000
Directional Drilling Services	210	319,000	310	400,000				719,000
Fuel & Power	211	145,000	311	36,000	354		367	181,000
Water	212	55,000	312	511,000			368	566,000
Bits	213	115,000	313				369	115,000
Mud & Chemicals	214	236,900	314				370	236,900
Drill Stem Test	215		315	315,000				315,000
Coring & Analysis	216							0
Cement Surface	217	20,900						20,900
Cement Intermediate	218	92,070						92,070
Cement 2nd Intermediate/Production	219	93,500						93,500
Cement Squeeze & Other (Kickoff Plug)	220						371	0
Float Equipment & Centralizers	221	60,000						60,000
Casing Crews & Equipment	222	55,000						55,000
Fishing Tools & Service	223		323				372	0
Geologic/Engineering	224		324		355		373	0
Contract Labor	225	6,500	325	2,000	356	73,713	374	100,213
Company Supervision	226	41,400	326	15,000	357	2,888	375	59,288
Contract Supervision	227	90,000	327	128,000	358		376	218,000
Testing Casing/Tubing	228	40,000	328				377	40,000
Mud Logging Unit	229	39,000	329	48,000				87,000
Logging	230						378	0
Perforating/Wireline Services	231	10,000	331	242,000			379	252,000
Stimulation/Treating			332				380	0
Completion Unit			333				381	0
Swabbing Unit			334				382	0
Rentals-Surface	235	143,750	335		359		383	143,750
Rentals-Subsurface	236	138,000	336				384	138,000
Trucking/Forklift/Rig Mobilization	237	200,000	337	10,000	360		385	210,000
Welding Services	238	6,000	338		361		386	6,000
Water Disposal	239		339	20,000	362		387	20,000
Plug to Abandon	240		340					0
Seismic Analysis	241		341					0
Miscellaneous	242		342	3,000			389	3,000
Contingency	243	76,000	343	76,000	363		390	152,000
Closed Loop & Environmental	244	235,750	344		364		388	235,750
Fuel - Diesel	245		345	351,000				351,000
Coil Tubing			346	248,000			392	248,000
Flowback Crews & Equip			347	10,000			391	10,000
Offset Directional/Frac	248		348					0
<b>TOTAL INTANGIBLES</b>		<b>2,937,170</b>		<b>3,836,500</b>		<b>101,343</b>	<b>40,000</b>	<b>6,915,013</b>

<u>TANGIBLE COSTS</u>								
Surface Casing	401	32,000						32,000
Intermediate Casing	402	280,000						280,000
Production Casing/Liner	403	430,000						430,000
Tubing			504	52,000			530	52,000
Wellhead Equipment	405	70,000	505	28,000			531	130,000
Pumping Unit							506	0
Prime Mover							507	0
Rods							508	0
Pumps-Sub Surface (BH)			509				532	0
Tanks					510	44,361		44,361
Flowlines					511	80,866		80,866
Heater Treater/Separator					512	184,000		184,000
Electrical System					513	39,018	533	49,018
Packers/Anchors/Hangers	414		514	60,000			534	60,000
Couplings/Fittings/Vaives	415				515	117,778		117,778
Gas Lift/Compression					516			0
Dehydration					517			0
Injection Plant/CO2 Equipment					518			0
Pumps-Surface					521	24,693		24,693
Instrumentation/SCADA/POC					522	16,722	529	31,722
Miscellaneous	419		519		523		535	0
Contingency	420		520		524		536	0
Meters/LACT					525			0
Flares/Combusters/Emission					526	75,514		75,514
Gas Lift/Compression			527	20,000			528	57,000
<b>TOTAL TANGIBLES</b>		<b>812,000</b>		<b>160,000</b>		<b>582,952</b>	<b>94,000</b>	<b>1,648,952</b>
<b>TOTAL WELL COSTS</b>		<b>3,749,170</b>		<b>3,996,500</b>		<b>684,295</b>	<b>134,000</b>	<b>8,563,965</b>

<b>% of Total Well Cost</b>	<b>44%</b>	<b>47%</b>	<b>8%</b>	<b>2%</b>
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COG Operating LLC  
Date Prepared: 9/14/21  
COG Operating LLC  
We approve: \_\_\_\_\_  
\_\_\_\_\_% Working Interest  
Company: \_\_\_\_\_  
By: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

AW-PS-CB

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

**COG OPERATING LLC  
AUTHORITY FOR EXPENDITURE  
DRILLING**

WELL NAME: <b>GIN AND TECTONIC FED COM 705H</b>	PROSPECT NAME: Bulldog 2432
SHL: Sec 5: 300 FSL & 2620 FWL	STATE & COUNTY: New Mexico, Lea
BHL: Sec 32: 50 FNL & 2310 FWL	OBJECTIVE: Drill and Complete
FORMATION: Wolfcamp	DEPTH: 22,400
LEGAL: Sec 5: 24S 32E	TVD: 12,160

		<u>Drig - Rig</u>			<u>Tank Btty</u>		<u>Pmpg</u>	
		<u>Release(D)</u>		<u>Completion(C)</u>	<u>Constrctn(TB)</u>		<u>Equipment(PEQ)</u>	<u>TOTAL</u>
Title/Curative/Permit	201	20,000						20,000
Insurance	202	2,500	302					2,500
Damages/Right of Way	203	20,000	303		963			20,963
Survey/Stake Location	204	7,000	304	80,000	352			87,000
Location/Pits/Road Expense	205	165,000	305	5,000	353	23,779	366	197,779
Drilling / Completion Overhead	206	9,000	306	12,500				21,500
Turnkey Contract	207		307	771,000				771,000
Footage Contract	208		308	290,000				290,000
Daywork Contract	209	631,000	309	263,000				894,000
Directional Drilling Services	210	382,000	310	400,000				782,000
Fuel & Power	211	189,000	311	36,000	354		367	225,000
Water	212	55,000	312	511,000			368	566,000
Bits	213	115,000	313				369	115,000
Mud & Chemicals	214	309,000	314				370	309,000
Drill Stem Test	215		315	315,000				315,000
Coring & Analysis	216							0
Cement Surface	217	20,900						20,900
Cement Intermediate	218	92,070						92,070
Cement 2nd Intermediate/Production	219	93,500						93,500
Cement Squeeze & Other (Kickoff Plug)	220	50,000					371	50,000
Float Equipment & Centralizers	221	60,000						60,000
Casing Crews & Equipment	222	55,000						55,000
Fishing Tools & Service	223		323				372	0
Geologic/Engineering	224		324		355		373	0
Contract Labor	225	6,500	325	2,000	356	73,713	374	100,213
Company Supervision	226	54,000	326	15,000	357	2,888	375	71,888
Contract Supervision	227	114,000	327	128,000	358		376	242,000
Testing Casing/Tubing	228	40,000	328				377	40,000
Mud Logging Unit	229	47,000	329	48,000				95,000
Logging	230						378	0
Perforating/Wireline Services	231	300,000	331	242,000			379	542,000
Stimulation/Treating			332				380	0
Completion Unit			333				381	0
Swabbing Unit			334				382	0
Rentals-Surface	235	187,500	335		359		383	187,500
Rentals-Subsurface	236	180,000	336				384	180,000
Trucking/Forklift/Rig Mobilization	237	200,000	337	10,000	360		385	210,000
Welding Services	238	6,000	338		361		386	6,000
Water Disposal	239		339	20,000	362		387	20,000
Plug to Abandon	240		340					0
Seismic Analysis	241		341					0
Miscellaneous	242		342	3,000			389	3,000
Contingency	243	98,000	343	76,000	363		390	174,000
Closed Loop & Environmental	244	307,500	344		364		388	307,500
Fuel - Diesel	245		345	351,000				351,000
Coil Tubing			346	248,000			392	248,000
Flowback Crews & Equip			347	10,000			391	10,000
Offset Directional/Frac	248		348					0
<b>TOTAL INTANGIBLES</b>		<b>3,816,470</b>		<b>3,836,500</b>		<b>101,343</b>	<b>40,000</b>	<b>7,794,313</b>

<b>TANGIBLE COSTS</b>								
Surface Casing	401	32,000						32,000
Intermediate Casing	402	280,000						280,000
Production Casing/Liner	403	430,000						430,000
Tubing			504	52,000			530	52,000
Wellhead Equipment	405	70,000	505	28,000			531	130,000
Pumping Unit							506	0
Prime Mover							507	0
Rods							508	0
Pumps-Sub Surface (BH)			509				532	0
Tanks					510	44,361		44,361
Flowlines					511	80,866		80,866
Heater Treater/Separator					512	184,000		184,000
Electrical System					513	39,018	533	49,018
Packers/Anchors/Hangers	414		514	60,000			534	60,000
Couplings/Fittings/Vaives	415				515	117,778		117,778
Gas Lift/Compression					516			0
Dehydration					517			0
Injection Plant/CO2 Equipment					518			0
Pumps-Surface					521	24,693		24,693
Instrumentation/SCADA/POC					522	16,722	529	31,722
Miscellaneous	419		519		523		535	0
Contingency	420		520		524		536	0
Meters/LACT					525			0
Flares/Combusters/Emission					526	75,514		75,514
Gas Lift/Compression			527	20,000			528	57,000
<b>TOTAL TANGIBLES</b>		<b>812,000</b>		<b>160,000</b>		<b>582,952</b>	<b>94,000</b>	<b>1,648,952</b>
<b>TOTAL WELL COSTS</b>		<b>4,628,470</b>		<b>3,996,500</b>		<b>684,295</b>	<b>134,000</b>	<b>9,443,265</b>

	<b>% of Total Well Cost</b>	<b>49%</b>	<b>42%</b>	<b>7%</b>	<b>1%</b>
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COG Operating LLC

Date Prepared: 9/14/21

COG Operating LLC

We approve: \_\_\_\_\_

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

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

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

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

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

AW-PS-CB

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**COG OPERATING LLC  
AUTHORITY FOR EXPENDITURE  
DRILLING**

WELL NAME: <b>GIN AND TECTONIC FED COM 706H</b>	PROSPECT NAME: Bulldog 2432
SHL: Sec 5: 250 FSL & 1030 FWL	STATE & COUNTY: New Mexico, Lea
BHL: Sec 32: 50 FNL & 1650 FWL	OBJECTIVE: Drill and Complete
FORMATION: Wolfcamp	DEPTH: 22,500
LEGAL: Sec 5: 24S 32E	TVD: 12,230

		<u>Drig - Rig</u>			<u>Tank Btty</u>		<u>Pmpg</u>	
		<u>Release(D)</u>		<u>Completion(C)</u>	<u>Constrctn(TB)</u>		<u>Equipment(PEQ)</u>	<u>TOTAL</u>
Title/Curative/Permit	201	20,000						20,000
Insurance	202	2,500	302					2,500
Damages/Right of Way	203	20,000	303		351	963		20,963
Survey/Stake Location	204	7,000	304	80,000	352			87,000
Location/Pits/Road Expense	205	165,000	305	5,000	353	23,779	366	197,779
Drilling / Completion Overhead	206	6,900	306	12,500				19,400
Turnkey Contract	207		307	771,000				771,000
Footage Contract	208		308	290,000				290,000
Daywork Contract	209	497,000	309	263,000				760,000
Directional Drilling Services	210	319,000	310	400,000				719,000
Fuel & Power	211	145,000	311	36,000	354		367	181,000
Water	212	55,000	312	511,000			368	566,000
Bits	213	115,000	313				369	115,000
Mud & Chemicals	214	236,900	314				370	236,900
Drill Stem Test	215		315	315,000				315,000
Coring & Analysis	216							0
Cement Surface	217	20,900						20,900
Cement Intermediate	218	92,070						92,070
Cement 2nd Intermediate/Production	219	93,500						93,500
Cement Squeeze & Other (Kickoff Plug)	220						371	0
Float Equipment & Centralizers	221	60,000						60,000
Casing Crews & Equipment	222	55,000						55,000
Fishing Tools & Service	223		323				372	0
Geologic/Engineering	224		324		355		373	0
Contract Labor	225	6,500	325	2,000	356	73,713	374	100,213
Company Supervision	226	41,400	326	15,000	357	2,888	375	59,288
Contract Supervision	227	90,000	327	128,000	358		376	218,000
Testing Casing/Tubing	228	40,000	328				377	40,000
Mud Logging Unit	229	39,000	329	48,000				87,000
Logging	230						378	0
Perforating/Wireline Services	231	10,000	331	242,000			379	252,000
Stimulation/Treating			332				380	0
Completion Unit			333				381	0
Swabbing Unit			334				382	0
Rentals-Surface	235	143,750	335		359		383	143,750
Rentals-Subsurface	236	138,000	336				384	138,000
Trucking/Forklift/Rig Mobilization	237	200,000	337	10,000	360		385	210,000
Welding Services	238	6,000	338		361		386	6,000
Water Disposal	239		339	20,000	362		387	20,000
Plug to Abandon	240		340					0
Seismic Analysis	241		341					0
Miscellaneous	242		342	3,000			389	3,000
Contingency	243	76,000	343	76,000	363		390	152,000
Closed Loop & Environmental	244	235,750	344		364		388	235,750
Fuel - Diesel	245		345	351,000				351,000
Coil Tubing			346	248,000			392	248,000
Flowback Crews & Equip			347	10,000			391	18,000
Offset Directional/Frac	248		348					0
<b>TOTAL INTANGIBLES</b>		<b>2,937,170</b>		<b>3,836,500</b>		<b>101,343</b>	<b>40,000</b>	<b>6,915,013</b>

<b>TANGIBLE COSTS</b>								
Surface Casing	401	32,000						32,000
Intermediate Casing	402	280,000						280,000
Production Casing/Liner	403	430,000						430,000
Tubing			504	52,000			530	52,000
Wellhead Equipment	405	70,000	505	28,000			531	130,000
Pumping Unit							506	0
Prime Mover							507	0
Rods							508	0
Pumps-Sub Surface (BH)			509				532	0
Tanks					510	44,361		44,361
Flowlines					511	80,866		80,866
Heater Treater/Separator					512	184,000		184,000
Electrical System					513	39,018	533	49,018
Packers/Anchors/Hangers	414		514	60,000			534	60,000
Couplings/Fittings/Valves	415				515	117,778		117,778
Gas Lift/Compression					516			0
Dehydration					517			0
Injection Plant/CO2 Equipment					518			0
Pumps-Surface					521	24,693		24,693
Instrumentation/SCADA/POC					522	16,722	529	31,722
Miscellaneous	419		519		523		535	0
Contingency	420		520		524		536	0
Meters/LACT					525			0
Flares/Combusters/Emission					526	75,514		75,514
Gas Lift/Compression			527	20,000			528	57,000
<b>TOTAL TANGIBLES</b>		<b>812,000</b>		<b>160,000</b>		<b>582,952</b>	<b>94,000</b>	<b>1,648,952</b>
<b>TOTAL WELL COSTS</b>		<b>3,749,170</b>		<b>3,996,500</b>		<b>684,295</b>	<b>134,000</b>	<b>8,563,965</b>

	<b>% of Total Well Cost</b>	<b>44%</b>	<b>47%</b>	<b>8%</b>	<b>2%</b>
COG Operating LLC					

Date Prepared: 9/14/21

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

COG Operating LLC

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

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

AW-PS-CB

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



**COG OPERATING LLC  
AUTHORITY FOR EXPENDITURE  
DRILLING**

WELL NAME: <b>GIN AND TECTONIC FED COM 707H</b>	PROSPECT NAME: Bulldog 2432
SHL: Sec 5: 250 FSL & 1000 FWL	STATE & COUNTY: New Mexico, Lea
BHL: Sec 32: 50 FNL & 1000 FWL	OBJECTIVE: Drill and Complete
FORMATION: Wolfcamp	DEPTH: 22,300
LEGAL: Sec 5: 24S 32E	TVD: 12,100

		<b>Drig - Rig</b>			<b>Tank Btty</b>		<b>Pmpg</b>	
		<b>Release(D)</b>		<b>Completion(C)</b>	<b>Constrctn(TB)</b>		<b>Equipment(PEQ)</b>	<b>TOTAL</b>
Title/Curative/Permit	201	20,000						20,000
Insurance	202	2,500	302					2,500
Damages/Right of Way	203	20,000	303		963			20,963
Survey/Stake Location	204	7,000	304	80,000	352			87,000
Location/Pits/Road Expense	205	165,000	305	5,000	353	23,779	366	197,779
Drilling / Completion Overhead	206	6,900	306	12,500				19,400
Turnkey Contract	207		307	771,000				771,000
Footage Contract	208		308	290,000				290,000
Daywork Contract	209	497,000	309	263,000				760,000
Directional Drilling Services	210	319,000	310	400,000				719,000
Fuel & Power	211	145,000	311	36,000	354		367	181,000
Water	212	55,000	312	511,000			368	566,000
Bits	213	115,000	313				369	115,000
Mud & Chemicals	214	236,900	314				370	236,900
Drill Stem Test	215		315	315,000				315,000
Coring & Analysis	216							0
Cement Surface	217	20,900						20,900
Cement Intermediate	218	92,070						92,070
Cement 2nd Intermediate/Production	219	93,500						93,500
Cement Squeeze & Other (Kickoff Plug)	220						371	0
Float Equipment & Centralizers	221	60,000						60,000
Casing Crews & Equipment	222	55,000						55,000
Fishing Tools & Service	223		323				372	0
Geologic/Engineering	224		324		355		373	0
Contract Labor	225	6,500	325	2,000	356	73,713	374	100,213
Company Supervision	226	41,400	326	15,000	357	2,888	375	59,288
Contract Supervision	227	90,000	327	128,000	358		376	218,000
Testing Casing/Tubing	228	40,000	328				377	40,000
Mud Logging Unit	229	39,000	329	48,000				87,000
Logging	230						378	0
Perforating/Wireline Services	231	10,000	331	242,000			379	252,000
Stimulation/Treating			332				380	0
Completion Unit			333				381	0
Swabbing Unit			334				382	0
Rentals-Surface	235	143,750	335		359		383	143,750
Rentals-Subsurface	236	138,000	336				384	138,000
Trucking/Forklift/Rig Mobilization	237	200,000	337	10,000	360		385	210,000
Welding Services	238	6,000	338		361		386	6,000
Water Disposal	239		339	20,000	362		387	20,000
Plug to Abandon	240		340					0
Seismic Analysis	241		341					0
Miscellaneous	242		342	3,000			389	3,000
Contingency	243	76,000	343	76,000	363		390	152,000
Closed Loop & Environmental	244	235,750	344		364		388	235,750
Fuel - Diesel	245		345	351,000				351,000
Coil Tubing			346	248,000			392	248,000
Flowback Crews & Equip			347	10,000			391	18,000
Offset Directional/Frac	248		348					0
<b>TOTAL INTANGIBLES</b>		<b>2,937,170</b>		<b>3,836,500</b>		<b>101,343</b>	<b>40,000</b>	<b>6,915,013</b>

<b>TANGIBLE COSTS</b>								
Surface Casing	401	32,000						32,000
Intermediate Casing	402	280,000						280,000
Production Casing/Liner	403	430,000						430,000
Tubing			504	52,000			530	52,000
Wellhead Equipment	405	70,000	505	28,000			531	130,000
Pumping Unit							506	0
Prime Mover							507	0
Rods							508	0
Pumps-Sub Surface (BH)			509				532	0
Tanks					510	44,361		44,361
Flowlines					511	80,866		80,866
Heater Treater/Separator					512	184,000		184,000
Electrical System					513	39,018	533	49,018
Packers/Anchors/Hangers	414		514	60,000			534	60,000
Couplings/Fittings/Vaives	415				515	117,778		117,778
Gas Lift/Compression					516			0
Dehydration					517			0
Injection Plant/CO2 Equipment					518			0
Pumps-Surface					521	24,693		24,693
Instrumentation/SCADA/POC					522	16,722	529	31,722
Miscellaneous	419		519		523		535	0
Contingency	420		520		524		536	0
Meters/LACT					525			0
Flares/Combusters/Emission					526	75,514		75,514
Gas Lift/Compression			527	20,000			528	57,000
<b>TOTAL TANGIBLES</b>		<b>812,000</b>		<b>160,000</b>		<b>582,952</b>	<b>94,000</b>	<b>1,648,952</b>
<b>TOTAL WELL COSTS</b>		<b>3,749,170</b>		<b>3,996,500</b>		<b>684,295</b>	<b>134,000</b>	<b>8,563,965</b>

	<b>% of Total Well Cost</b>	<b>44%</b>	<b>47%</b>	<b>8%</b>	<b>2%</b>
--	-----------------------------	------------	------------	-----------	-----------

COG Operating LLC

Date Prepared: 9/14/21

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

COG Operating LLC

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

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

AW-PS-CB

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

**COG OPERATING LLC  
AUTHORITY FOR EXPENDITURE  
DRILLING**

WELL NAME: <b>GIN AND TECTONIC FED COM 708H</b>	PROSPECT NAME: Bulldog 2432
SHL: Sec 5: 250 FSL & 970 FWL	STATE & COUNTY: New Mexico, Lea
BHL: Sec 32: 50 FNL & 330 FWL	OBJECTIVE: Drill and Complete
FORMATION: Wolfcamp	DEPTH: 22,500
LEGAL: Sec 5: 24S 32E	TVD: 12,225

		<b>Drig - Rig</b>			<b>Tank Btty</b>		<b>Pmpg</b>		
		<b>Release(D)</b>		<b>Completion(C)</b>	<b>Constrctn(TB)</b>		<b>Equipment(PEQ)</b>	<b>TOTAL</b>	
Title/Curative/Permit	201	20,000						20,000	
Insurance	202	2,500	302					2,500	
Damages/Right of Way	203	20,000	303		963			20,963	
Survey/Stake Location	204	7,000	304	80,000	352			87,000	
Location/Pits/Road Expense	205	165,000	305	5,000	23,779	366	4,000	197,779	
Drilling / Completion Overhead	206	6,900	306	12,500				19,400	
Turnkey Contract	207		307	771,000				771,000	
Footage Contract	208		308	290,000				290,000	
Daywork Contract	209	497,000	309	263,000				760,000	
Directional Drilling Services	210	319,000	310	400,000				719,000	
Fuel & Power	211	145,000	311	36,000	354	367		181,000	
Water	212	55,000	312	511,000		368		566,000	
Bits	213	115,000	313			369		115,000	
Mud & Chemicals	214	236,900	314			370		236,900	
Drill Stem Test	215		315	315,000				315,000	
Coring & Analysis	216							0	
Cement Surface	217	20,900						20,900	
Cement Intermediate	218	92,070						92,070	
Cement 2nd Intermediate/Production	219	93,500						93,500	
Cement Squeeze & Other (Kickoff Plug)	220					371		0	
Float Equipment & Centralizers	221	60,000						60,000	
Casing Crews & Equipment	222	55,000						55,000	
Fishing Tools & Service	223		323			372		0	
Geologic/Engineering	224		324		355	373		0	
Contract Labor	225	6,500	325	2,000	356	73,713	374	18,000	100,213
Company Supervision	226	41,400	326	15,000	357	2,888	375		59,288
Contract Supervision	227	90,000	327	128,000	358		376		218,000
Testing Casing/Tubing	228	40,000	328				377		40,000
Mud Logging Unit	229	39,000	329	48,000					87,000
Logging	230						378		0
Perforating/Wireline Services	231	10,000	331	242,000			379		252,000
Stimulation/Treating			332				380		0
Completion Unit			333				381		0
Swabbing Unit			334				382		0
Rentals-Surface	235	143,750	335		359		383		143,750
Rentals-Subsurface	236	138,000	336				384		138,000
Trucking/Forklift/Rig Mobilization	237	200,000	337	10,000	360		385		210,000
Welding Services	238	6,000	338		361		386		6,000
Water Disposal	239		339	20,000	362		387		20,000
Plug to Abandon	240		340						0
Seismic Analysis	241		341						0
Miscellaneous	242		342	3,000			389		3,000
Contingency	243	76,000	343	76,000	363		390		152,000
Closed Loop & Environmental	244	235,750	344		364		388		235,750
Fuel - Diesel	245		345	351,000					351,000
Coil Tubing			346	248,000			392		248,000
Flowback Crews & Equip			347	10,000			391	18,000	28,000
Offset Directional/Frac	248		348						0
<b>TOTAL INTANGIBLES</b>		<b>2,937,170</b>		<b>3,836,500</b>		<b>101,343</b>		<b>40,000</b>	<b>6,915,013</b>

<b>TANGIBLE COSTS</b>									
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Rods							508		0
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Couplings/Fittings/Vaives	415				515	117,778			117,778
Gas Lift/Compression					516				0
Dehydration					517				0
Injection Plant/CO2 Equipment					518				0
Pumps-Surface					521	24,693			24,693
Instrumentation/SCADA/POC					522	16,722	529	15,000	31,722
Miscellaneous	419		519		523		535		0
Contingency	420		520		524		536		0
Meters/LACT					525				0
Flares/Combusters/Emission					526	75,514			75,514
Gas Lift/Compression			527	20,000			528	37,000	57,000
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<b>TOTAL WELL COSTS</b>		<b>3,749,170</b>		<b>3,996,500</b>		<b>684,295</b>		<b>134,000</b>	<b>8,563,965</b>

<b>% of Total Well Cost</b>	<b>44%</b>	<b>47%</b>	<b>8%</b>	<b>2%</b>
COG Operating LLC				

Date Prepared: 9/14/21

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

COG Operating LLC

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

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

AW-PS-CB

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

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

**APPLICATIONS OF COG OPERATING LLC  
FOR COMPULSORY POOLING,  
LEA COUNTY, NEW MEXICO.**

**CASE NOS. 22460, 22461, 22462**

**AFFIDAVIT OF JOSEPH DISHRON**

Joseph Dishron, of lawful age and being first duly sworn, declares as follows:

1. My name is Joseph Dishron and I am a Senior Geologist with COG Operating LLC (“COG”), now a wholly-owned subsidiary of ConocoPhillips Company.
2. I have not previously testified before the Oil Conservation Division. My resume is attached as **COG Exhibit D-1**. I graduated from Sul Ross State University in 2011 with a Master’s Degree in Petroleum Geology. After graduating, I began work with ExxonMobil and later RSP Permian/Concho Resources. I joined ConocoPhillips as a geologist in 2021. I am a member of the American Association of Petroleum Geology and the West Texas Geological Society as well as Past-President of the Fort Worth Geological Society. I believe that the foregoing education and work experience qualify me to testify as an expert in petroleum geology.
3. I am familiar with the applications filed by COG in these consolidated cases and have conducted a geologic study of lands in the subject area.
4. In **Case No. 22460** COG intends to develop the Bone Spring formation.
5. **COG Exhibit D-2** is a locator map depicting COG’s acreage in yellow for the Bone Spring formation within the proposed spacing unit. Existing producing Bone Spring formation wells in the Second Bone Spring interval, which is the interval targeted by COG’s proposed initial

**BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico  
Exhibit No. D  
Submitted by: COG OPERATING LLC  
Hearing Date: April 7, 2022  
Case Nos. 22460-22462**

wells, are represented by solid lines. The approximate wellbore paths for the proposed initial wells within the Second Bone Spring interval are depicted with dashed lines.

6. **COG Exhibit D-3** is a subsea structure map that I prepared for the top of the Third Bone Spring interval that is representative of the targeted interval within the Bone Spring formation. The data points are indicated by the crosses. The approximate wellbore paths for the proposed initial wells are again depicted with dashed lines. This map shows that the formation is gently dipping to the east in this area. I do not observe any faulting, pinchouts, or other geologic impediments to developing the targeted intervals with horizontal wells in this area.

7. **COG Exhibit D-4** overlays a cross-section line consisting of three wells penetrating the Bone Spring formation that I used to construct a stratigraphic cross section from A to A'. I consider these well logs to be representative of the geology in the area.

8. **COG Exhibit D-5** is a stratigraphic cross-section using the representative wells depicted in COG Exhibit D-4. Each well in the cross-section contains gamma ray, resistivity, and porosity logs. The proposed target intervals within the Second Bone Spring interval are labeled on the exhibit. The cross-section demonstrates that the targeted intervals are continuous across the proposed spacing unit.

9. In **Case Nos. 22461 and 22462** COG intends to develop the Wolfcamp formation.

10. **COG Exhibit D-6** contains locator maps depicting COG's acreage in yellow for the Wolfcamp formation in both cases. Existing producing Wolfcamp formation wells are represented by solid lines. The approximate wellbore paths for the proposed initial wells within the Wolfcamp formation are depicted with dashed lines.

11. **COG Exhibit D-7** depicts subsea structure maps that I prepared on the top of the Wolfcamp formation that are representative of the targeted intervals in Case Nos. 22461 and

22462. The data points are indicated by crosses. The approximate wellbore paths for the proposed initial wells are again depicted with dashed lines. These maps show that the formation is gently dipping to the east in this area. I do not observe any faulting, pinchouts, or other geologic impediments to developing the targeted intervals with horizontal wells in this area.

12. **COG Exhibit D-8** overlays a cross-section line consisting of three wells penetrating the Wolfcamp formation that I used to construct a stratigraphic cross-section from A to A' in Case Nos. 22461 and 22462. I consider these well logs to be representative of the geology in the area.

13. **COG Exhibit D-9** are stratigraphic cross-sections using the representative wells depicted in COG Exhibit D-8 for each case. Each well in the cross-section contains gamma ray, resistivity, and porosity logs. The proposed target intervals in the Wolfcamp formation are labeled on the exhibit in each case. The cross-sections demonstrate that the targeted intervals are continuous across the proposed spacing unit in Case Nos. 22461 and 22462.

14. Based on my geologic study of the area, I have not identified any geologic impediments to drilling horizontal wells in the area of the spacing units proposed in these cases. Horizontal drilling will be the most efficient method to develop this acreage to prevent the drilling of unnecessary wells, and will result in the greatest ultimate recovery.

15. In my opinion, the stand-up orientation of the proposed wells is the preferred orientation for horizontal well development in the area and is appropriate to efficiently and effectively develop the subject acreage.

16. Based on my geologic study, the targeted interval underlying the subject area is suitable for development by horizontal wells, and the acreage comprising the proposed spacing units will contribute more-or-less equally to production from the wellbores.

17. Approving COG's applications will be in the best interest of conservation, the prevention of waste, and protection of correlative rights.

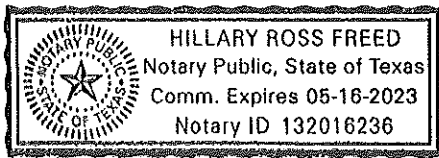
18. **COG Exhibits D-1 through D-9** were either prepared by me or compiled under my direction and supervision.

FURTHER AFFIANT SAYETH NAUGHT.

  
 \_\_\_\_\_  
 JOSEPH DISHRON

STATE OF TEXAS            )  
   )  
 COUNTY OF MIDLAND        )

SUBSCRIBED and SWORN to before me this   1<sup>st</sup>   day of April 2022 by  
 Joseph Dishron.



  
 \_\_\_\_\_  
 NOTARY PUBLIC

My Commission Expires:  
  05-16-2023

## Joseph B. Dishron

2816 Cimmaron Ave., Midland, TX 79705

Primary Phone: (682) 300-6013

[jdishron@yahoo.com](mailto:jdishron@yahoo.com)

### Experience

ConocoPhillips/Concho Resources(acquired)/RSP Permian Inc (acquired)

2018 to Current

#### Senior Geologist

Midland, TX - Concho

- Asset geologist for central Midland Basin Properties – Midland, Upton & Glasscock County, including Parks & Pegasus Fields

Dallas, TX – RSP Permian

- Asset geologist in two core areas covering over 30,000 gross acres
- Exploration and production mapping in the Northern Midland Basin, Permian Basin
- Working active drilling program in the Spraberry Trend (Spraberry/Wolfcamp/Cline) tight oil play

XTO Energy, an ExxonMobil Subsidiary

2011-2018

#### Staff Geologist

Fort Worth, TX

- Generated resource maps for exploration, production development and acquisitions
- Worked very active drilling program in the Wolfcamp/Spraberry of the Midland Basin
- Exploration work in the southern Midland Basin, Permian Basin

Sul Ross State University

2009-2011

#### Geology Graduate Assistant

Alpine, TX

- Laboratory Instruction; physical and historical geology, crystal and optical mineralogy, stratigraphy/sedimentation, and sedimentary petrology labs.
- Sul Ross geology field camp- assistant to instructor, summer 2010
- Teaching experience- rock/mineral identification, subsurface mapping, cross sections and fence diagrams, well logs, field methods, petrography.

### Education

**Master of Science, Degree in Geology**

2011

Sul Ross State University

Alpine, TX

Thesis: Integrating Oil, Gas & Sulfur Well Data to Map the Guadalupian-Ochoan Boundary; Lamar Limestone Unconventional Analysis, Delaware Basin, West Texas (2011)

Thesis Chair: Dr. Dave Rohr, Department Chair Earth & Physical Sciences, SRSU

Project Advisor: Dr. Bob Trentham, Director CEED, Professor UTPB

Committee Member: Dr. Kevin Urbanczyk, GIS Lab, Professor SRSU

**Bachelor of Science, Degree in Geology**

2009

Sul Ross State University

Alpine, TX

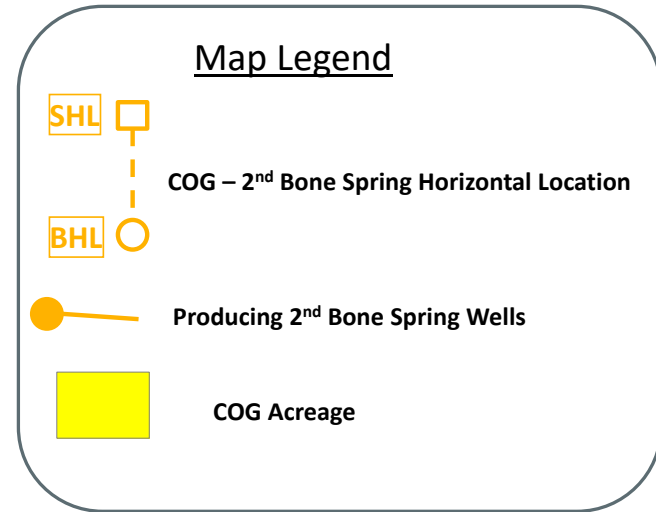
### Memberships and Affiliations

- Arrangement Coordinator, WTGS Fall Symposium Field Trip, 2019
- President, Fort Worth Geological Society, 2017-2018 Program Year
- Member, West Texas Geological Society, 2014-Present;
- Member, East Texas Geological Society, 2013-2018
- Board Member, Sul Ross State University Alumni Association, 2013-2017
- Member, Fort Worth Geological Society, 2011-Present
- Member, American Association of Petroleum Geologists, 2007-Present

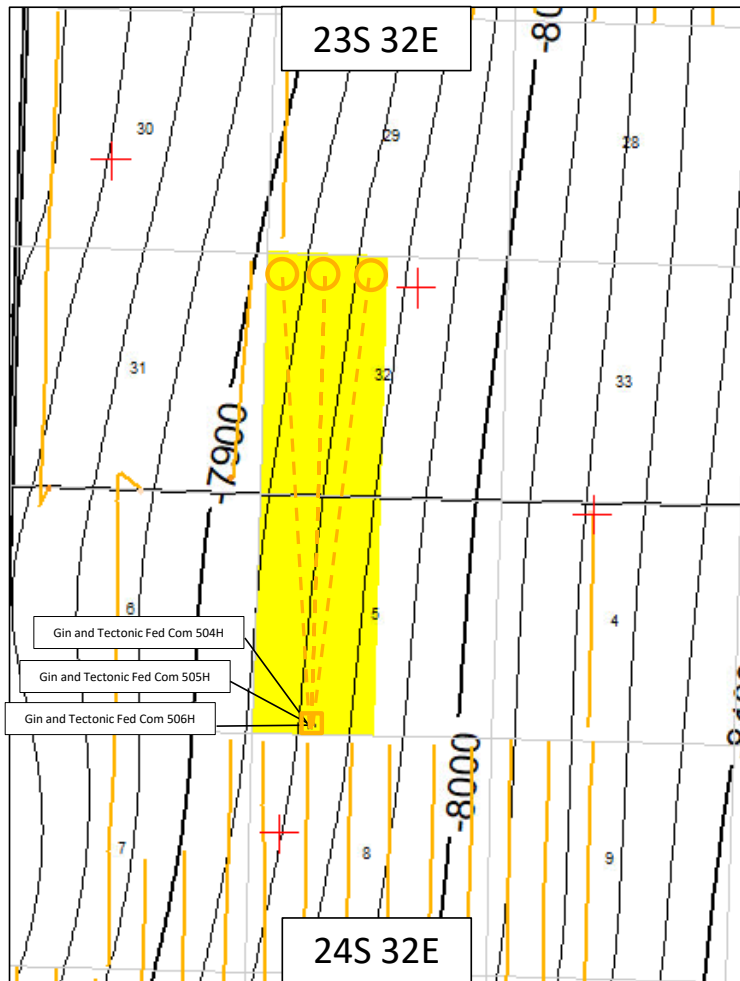
**BEFORE THE OIL CONSERVATION DIVISION**  
**Santa Fe, New Mexico**  
**Exhibit No. D1**  
**Submitted by: COG OPERATING LLC**  
**Hearing Date: April 7, 2022**  
**Case Nos. 22460-22462**



# Case No. 22460: Gin & Tectonic Fed Com (W/2 BS) 504H, 505H, 506H



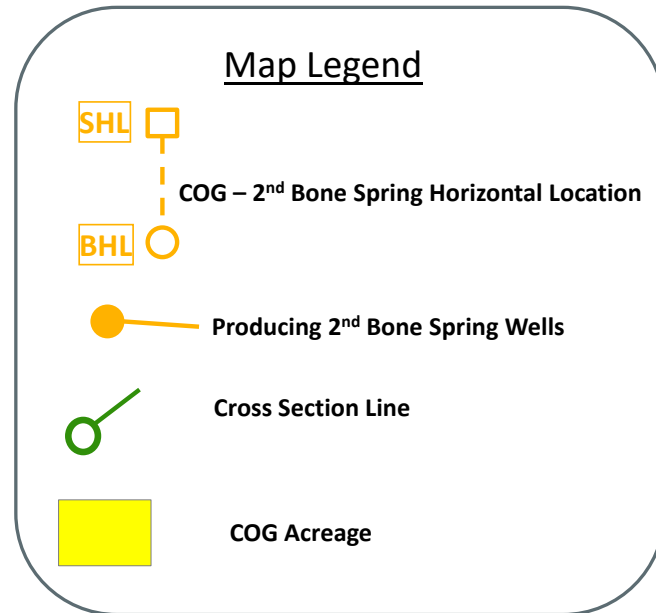
# Case No. 22460: Gin & Tectonic Fed Com – 3<sup>rd</sup> Bone Spring Carb Structure Map



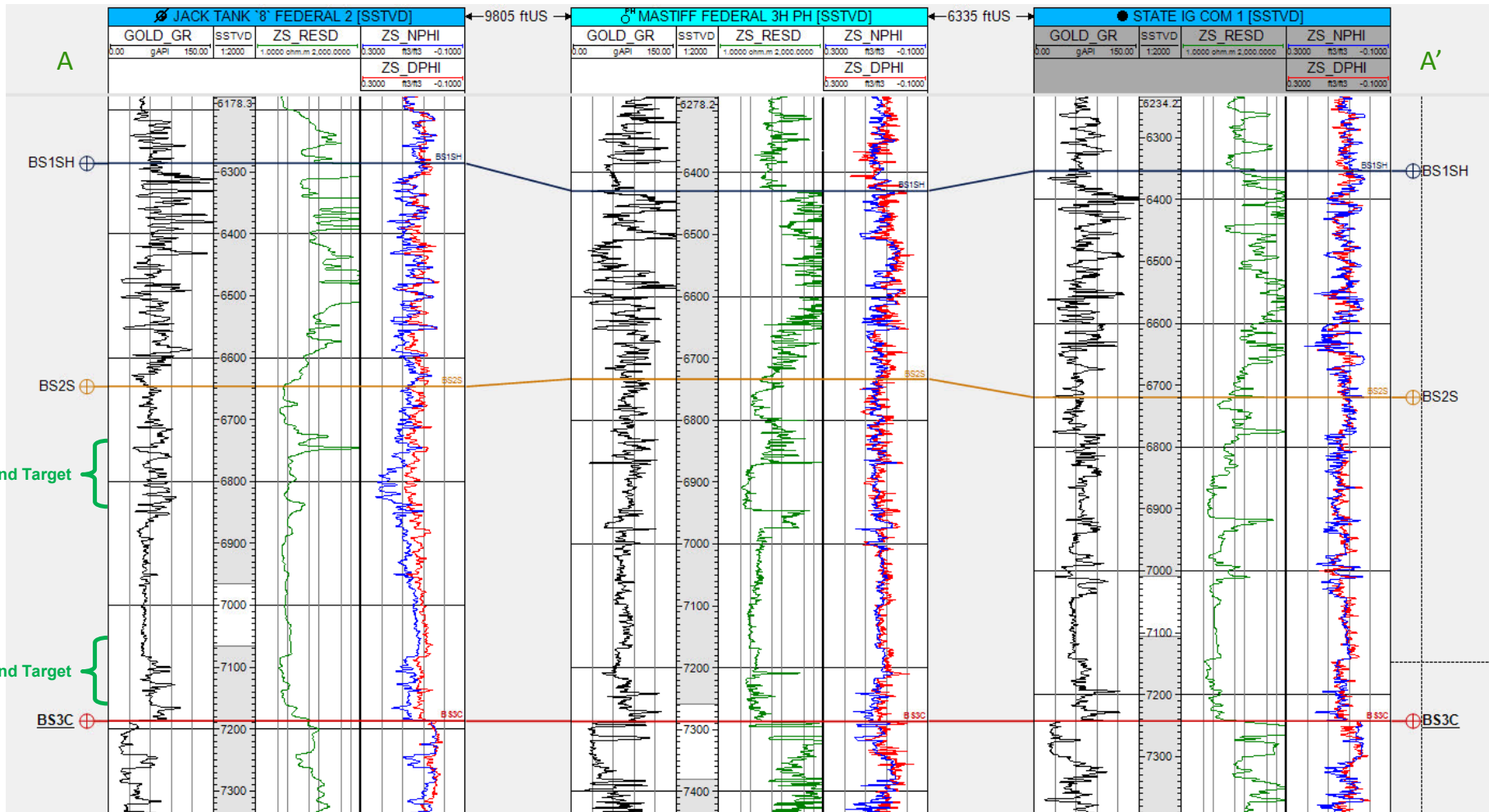
**Map Legend**

- SHL
- BHL
- Producing 2<sup>nd</sup> Bone Spring Wells
- BS2S Structure  
CI: 50'
- Data point
- COG Acreage
- COG – 2<sup>nd</sup> Bone Spring Horizontal Location

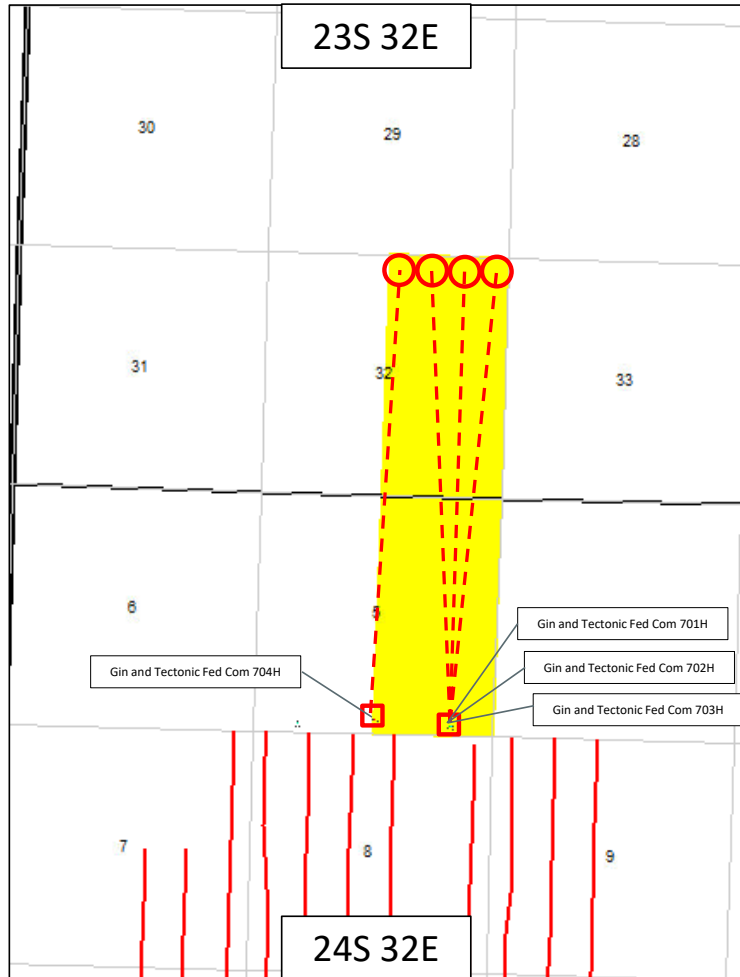
# Case No. 22460: Gin & Tectonic Fed Com – Cross Section Map







# Case No. 22460: Gin & Tectonic Fed Com – Stratigraphic Cross Section A – A'



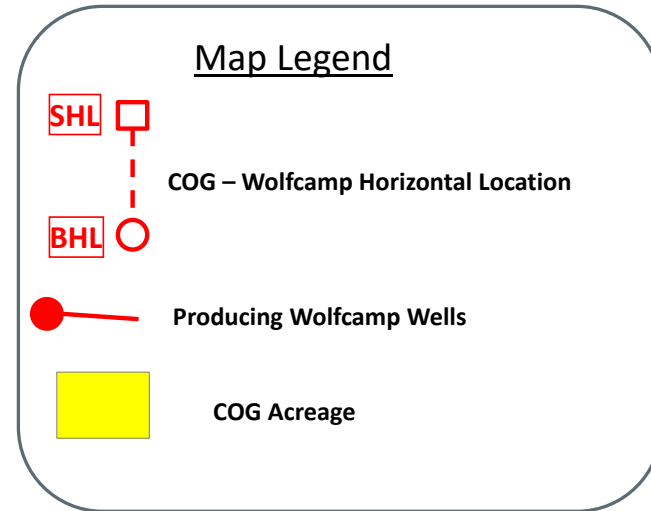
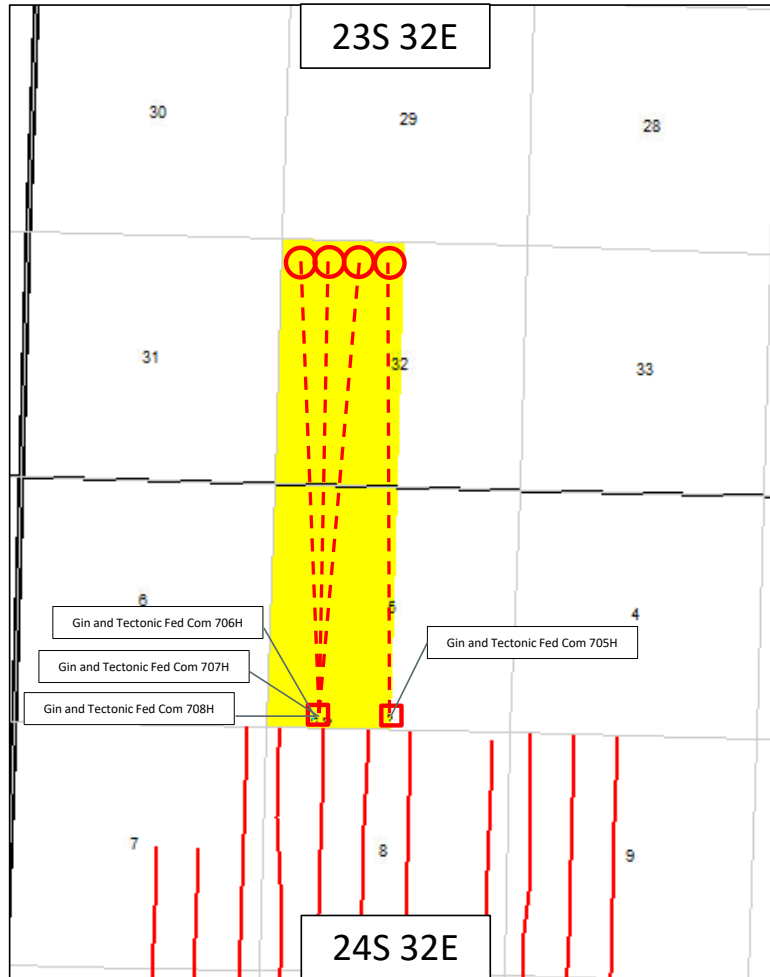
# Case No. 22461: Gin & Tectonic Fed Com (E/2 WC) 701H, 702H, 703H, 704H



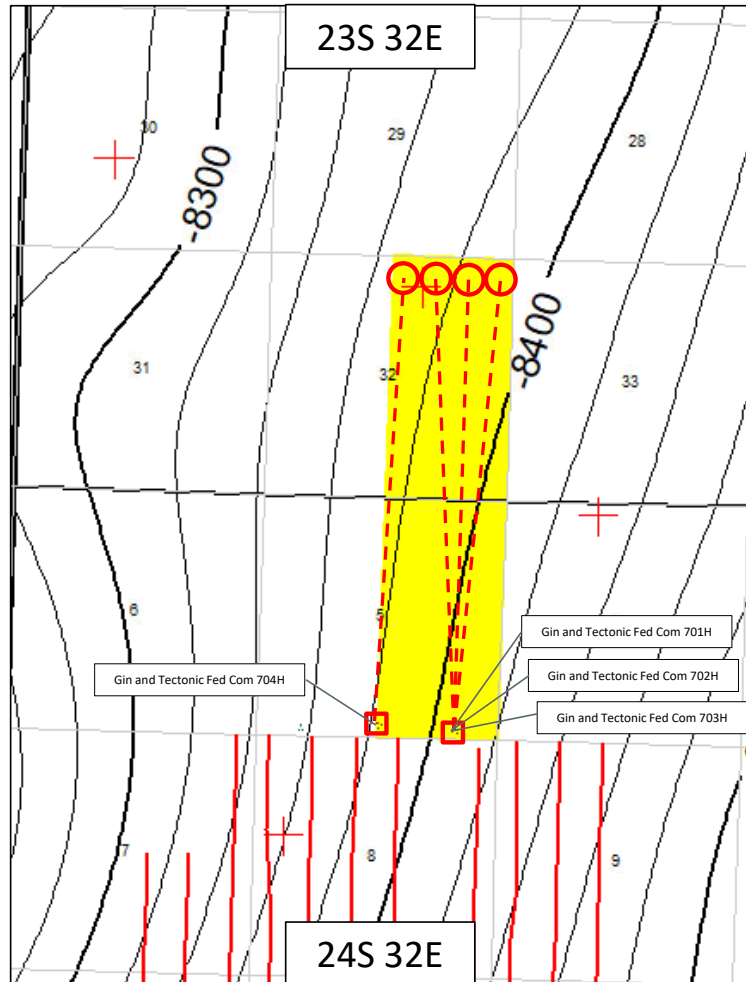
**Map Legend**

-   COG – Wolfcamp Horizontal Location
-  Producing Wolfcamp Wells
-  COG Acreage









# Case No. 22462: Gin & Tectonic Fed Com (W/2 WC) 705H, 706H, 707H, 708H



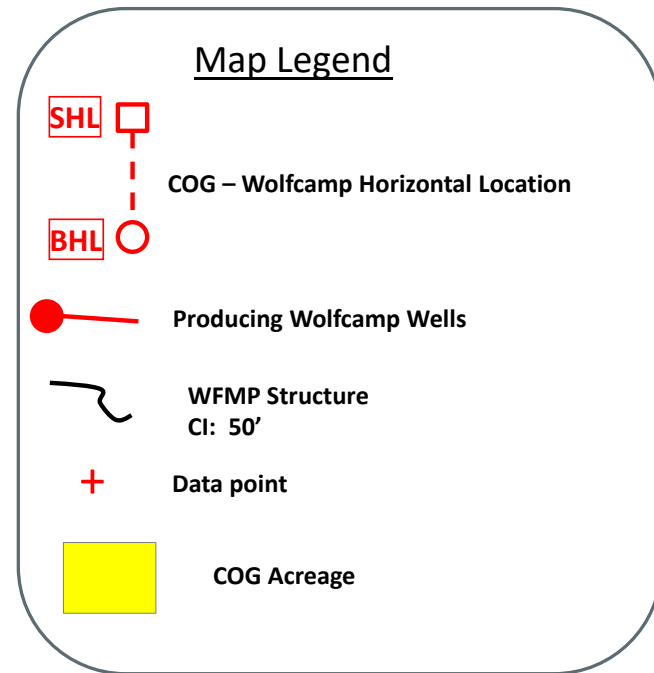
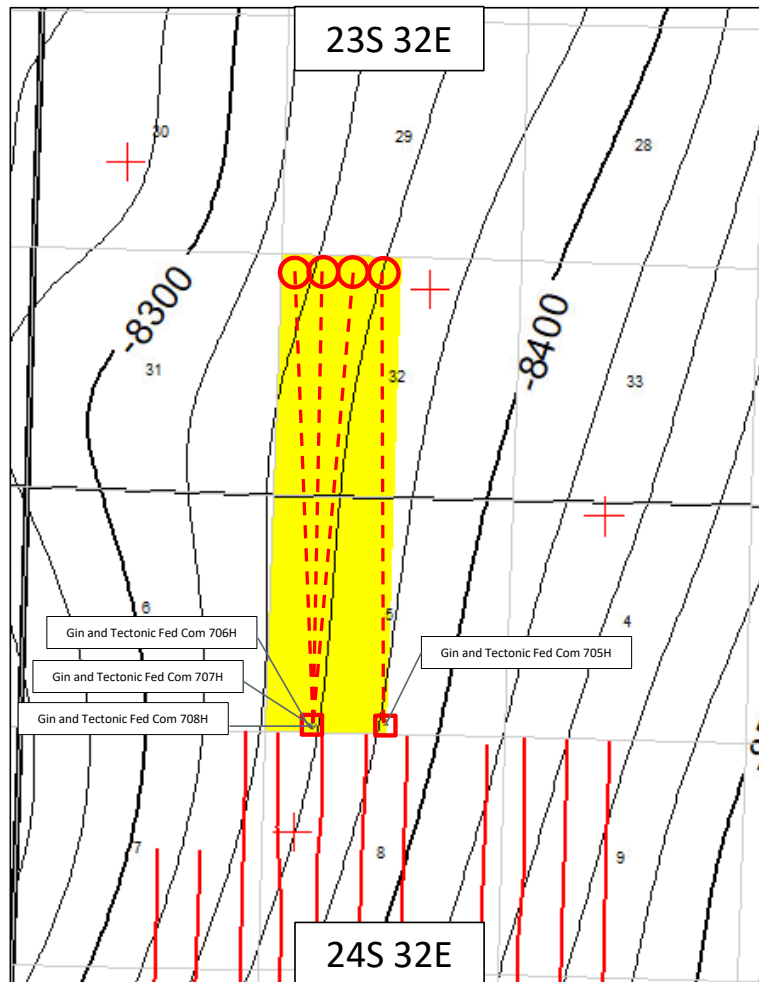
# Case No. 22461: Gin & Tectonic Fed Com – Wolfcamp Structure Map



**Map Legend**

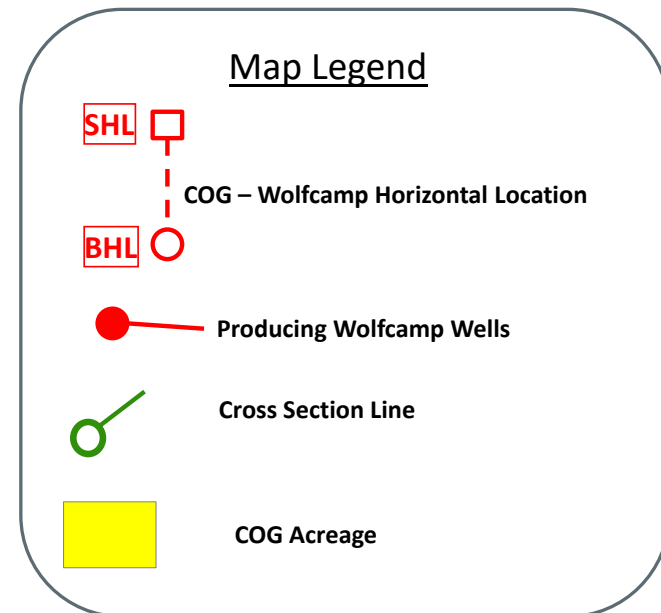
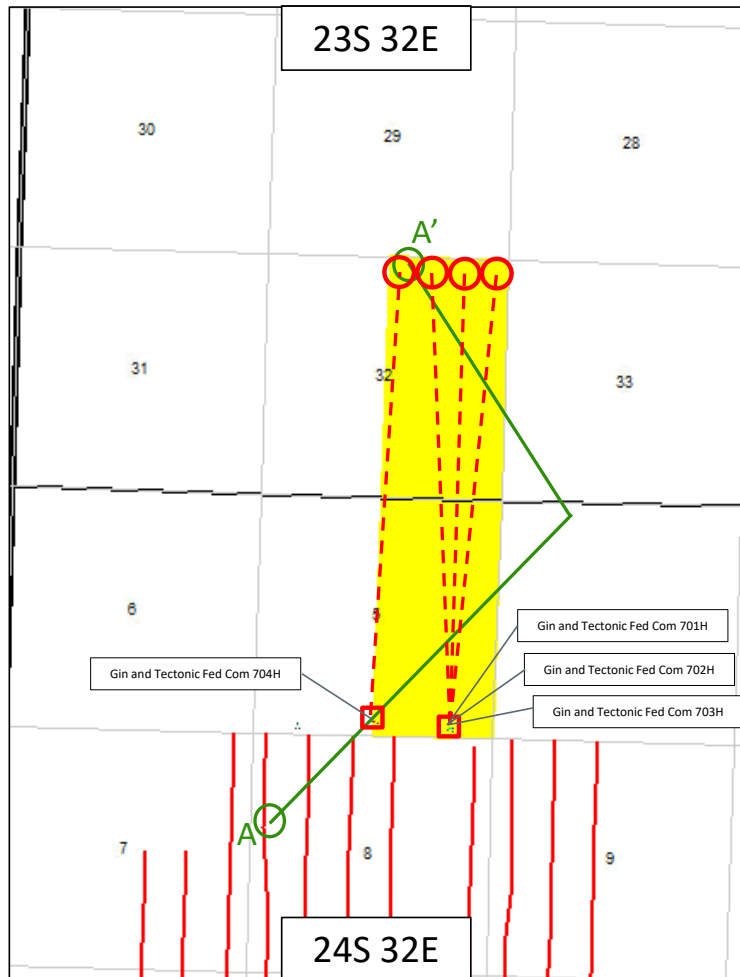
-  **SHL**  **COG – Wolfcamp Horizontal Location**
-  **BHL** 
-  **Producing Wolfcamp Wells**
-  **WFMP Structure**  
CI: 50'
-  **Data point**
-  **COG Acreage**

# Case No. 22462: Gin & Tectonic Fed Com – Wolfcamp Structure Map

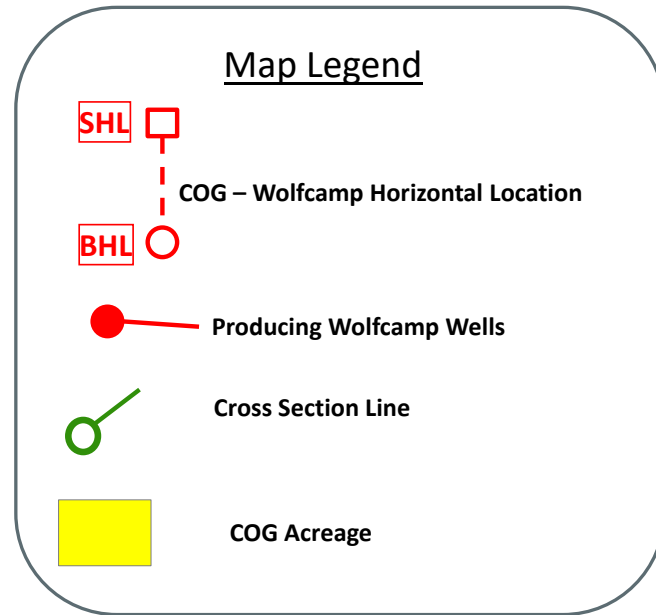
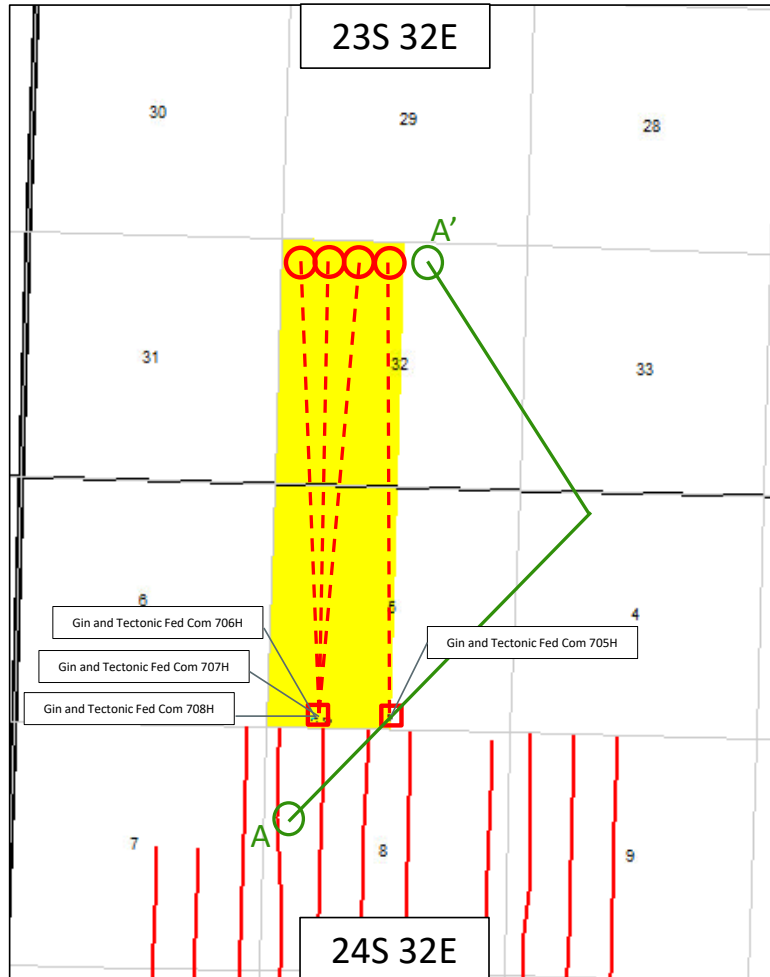




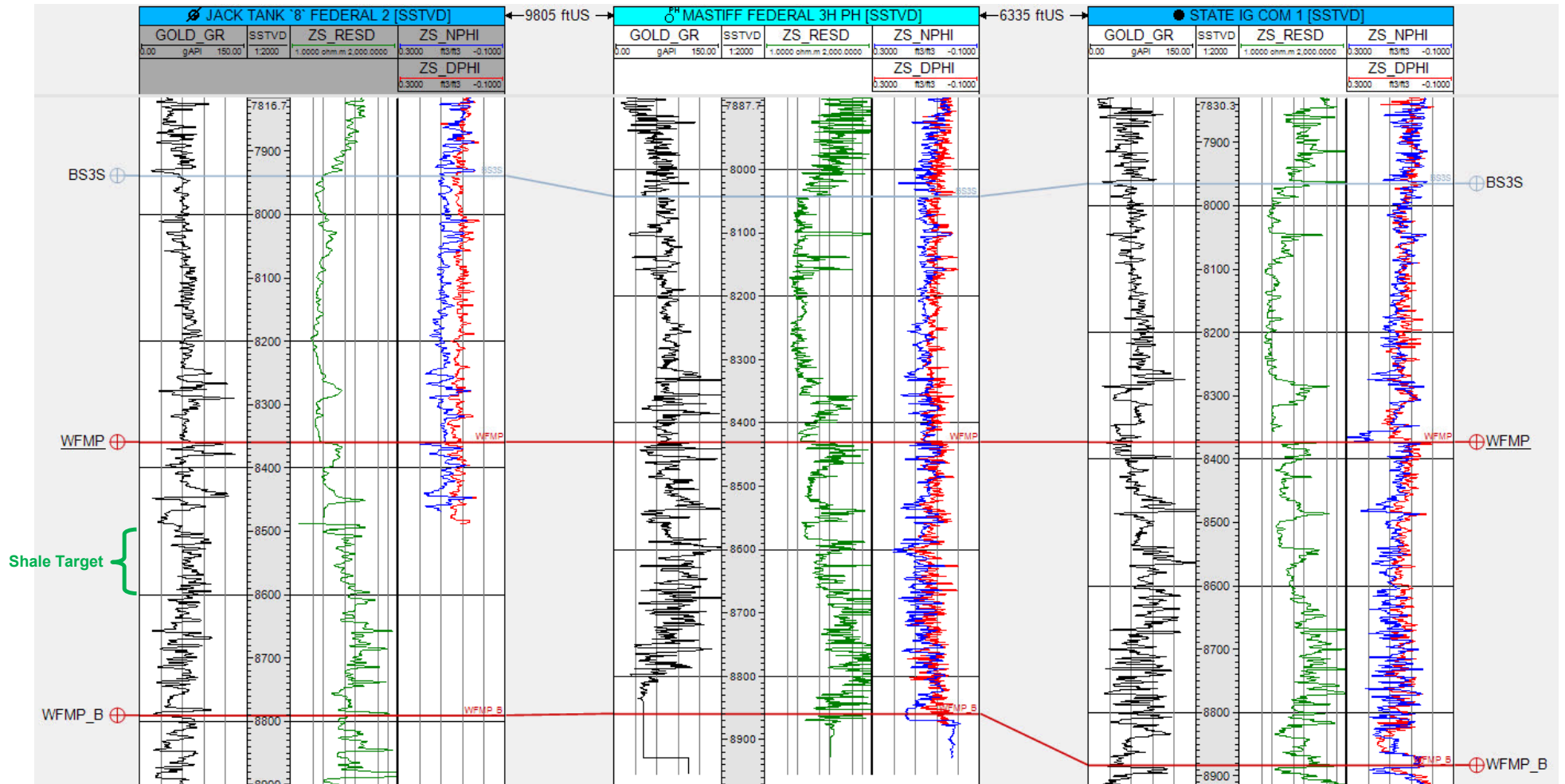
# Case No. 22461: Gin & Tectonic Fed Com – Cross Section Map



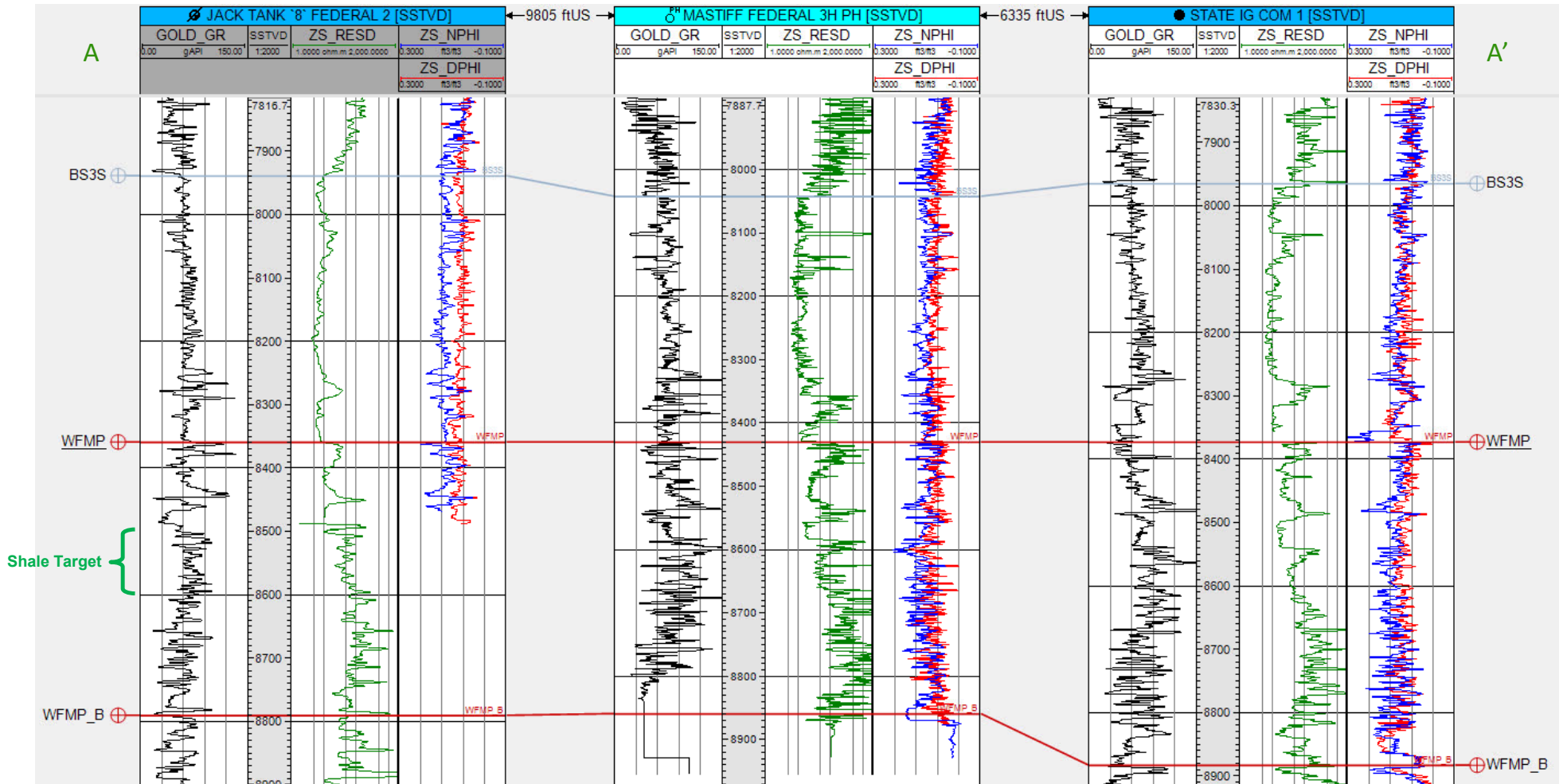
# Case No. 22462: Gin & Tectonic Fed Com – Cross Section Map



# Case No. 22461: Gin & Tectonic Fed Com – Stratigraphic Cross Section A – A'



# Case No. 22461: Gin & Tectonic Fed Com – Stratigraphic Cross Section A – A'







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

December 17, 2021

**VIA CERTIFIED MAIL**  
**CERTIFIED RECEIPT REQUESTED**

**TO: ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS**

**Re: Application of COG Operating, LLC for Compulsory Pooling, Lea County,  
New Mexico.  
Gin and Tectonic Federal Com #504H-#506H 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.

**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 January 6, 2022 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>. 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.**

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 Ryan Curry, at (432) 253-9744 or [Ryan.Curry@conocophillips.com](mailto:Ryan.Curry@conocophillips.com).

Sincerely,

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

Adam G. Rankin  
**ATTORNEY FOR COG OPERATING LLC**



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

December 17, 2021

**VIA CERTIFIED MAIL**  
**CERTIFIED RECEIPT REQUESTED**

**TO: ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS**

**Re: Application of COG Operating, LLC for Compulsory Pooling, Lea County,  
New Mexico.**  
**Gin and Tectonic Federal Com #701H-704H 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.

**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 January 6, 2022 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>. 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.**

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 Ryan Curry, at (432) 253-9744 or [Ryan.Curry@conocophillips.com](mailto:Ryan.Curry@conocophillips.com).

Sincerely,

A handwritten signature in blue ink, appearing to read "A.G. Rankin", with a long horizontal flourish extending to the right.

Adam G. Rankin  
ATTORNEY FOR COG OPERATING LLC



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

December 17, 2021

**VIA CERTIFIED MAIL**  
**CERTIFIED RECEIPT REQUESTED**

**TO: ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS**

**Re: Application of COG Operating, LLC for Compulsory Pooling, Lea County,  
New Mexico.  
Gin and Tectonic Federal Com #705H-#708H 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.

**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 January 6, 2022 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>. 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 Ryan Curry, at (432) 253-9744 or [Ryan.Curry@conocophillips.com](mailto:Ryan.Curry@conocophillips.com).

Sincerely,

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

Adam G. Rankin  
ATTORNEY FOR COG OPERATING LLC





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

March 18, 2022

**VIA CERTIFIED MAIL**  
**CERTIFIED RECEIPT REQUESTED**

**TO: ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS**

**Re: Application of COG Operating, LLC for Compulsory Pooling, Lea County,  
New Mexico.  
Gin and Tectonic Federal Com #504H-#506H 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.

**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 April 7, 2022 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>. 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.**

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 Ryan Curry, at (432) 253-9744 or [Ryan.Curry@conocophillips.com](mailto:Ryan.Curry@conocophillips.com).

Sincerely,

Adam G. Rankin  
**ATTORNEY FOR COG OPERATING LLC**

T 505.988.4421 F 505.983.6043  
110 North Guadalupe, Suite 1, Santa Fe, NM 87501-1849  
Mail to: P.O. Box 2208, Santa Fe, NM 87504-2208  
[www.hollandhart.com](http://www.hollandhart.com)

Alaska	Montana	Utah
Colorado	Nevada	Washington, D.C.
Idaho	New Mexico	Wyoming



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

March 18, 2022

**VIA CERTIFIED MAIL**  
**CERTIFIED RECEIPT REQUESTED**

**TO: ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS**

**Re: Application of COG Operating, LLC for Compulsory Pooling, Lea County,  
New Mexico.  
Gin and Tectonic Federal Com #701H-704H 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.

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Sincerely,

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

Adam G. Rankin  
ATTORNEY FOR COG OPERATING LLC



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

March 18, 2022

**VIA CERTIFIED MAIL**  
**CERTIFIED RECEIPT REQUESTED**

**TO: ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS**

**Re: Application of COG Operating, LLC for Compulsory Pooling, Lea County,  
New Mexico.  
Gin and Tectonic Federal Com #705H-#708H 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.

**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 April 7, 2022 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>. 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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Sincerely,

**Adam G. Rankin**  
**ATTORNEY FOR COG OPERATING LLC**

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Alaska	Montana	Utah
Colorado	Nevada	Washington, D.C.
Idaho	New Mexico	Wyoming

COG\_Gin and Tectonic  
Case Nos. 22460-22462 Postal Delivery Report

9414811898765845500399	Cimarex Energy Company	600 N Marienfeld St	Midland	TX	79701-4395	Your item was delivered to an individual at the address at 10:21 am on December 23, 2021 in MIDLAND, TX 79701.
9414811898765845500382	WPX Energy Permian, LLC	3500 One Williams Ctr	Tulsa	OK	74172-0135	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765845500337	Otter Creek, LLC	PO Box 1557	Sealy	TX	77474-1557	Your item was picked up at the post office at 11:21 am on December 20, 2021 in SEALY, TX 77474.
9414811898765845500375	Betelgeuse Production	PO Box 1937	Fredericksburg	TX	78624-1909	This is a reminder to arrange for redelivery of your item or your item will be returned to sender.
9414811898765845500016	Curtis A Anderson & Edna I Anderson, Trustees Of The Edna & Curtis Anderson Revocable Trust Dated August 31, 2021	9314 Cherry Brook Ln	Frisco	TX	75033-0651	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765845500054	John Lawrence Thoma, Trustee of the Cornerstone Family Trust	1664 Foothills Dr S	Golden	CO	80401-9168	Your item departed our USPS facility in ALBUQUERQUE, NM 87101 on December 29, 2021 at 3:01 pm. The item is currently in transit to the destination.
9414811898765845500061	Crown Rock Minerals, L.P.	PO Box 51933	Midland	TX	79710-1933	Your item was picked up at a postal facility at 5:38 pm on December 20, 2021 in MIDLAND, TX 79705.
9414811898765845500023	Kimbell Art Foundation	301 Commerce St Ste 2300	Fort Worth	TX	76102-4123	Your item was delivered to the front desk, reception area, or mail room at 11:11 am on December 21, 2021 in FORT WORTH, TX 76102.
9414811898765845500009	MAP00-NET	101 N Robinson Ave	Oklahoma City	OK	73102-5504	Your item was delivered to an individual at the address at 10:54 am on December 21, 2021 in OKLAHOMA CITY, OK 73102.
9414811898765845500092	The Roach Foundation	777 Taylor St	Fort Worth	TX	76102-4919	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765845500047	Bill Burton	301 Commerce St Ste 3301	Fort Worth	TX	76102-4133	Your item arrived at the SANTA FE, NM 87504 post office at 10:12 am on December 27, 2021 and is ready for pickup.
9414811898765845500085	Ben J. Fortson, III, Trustee of the Ben J. Fortson, III Childrens Trust	301 Commerce St Ste 3301	Fort Worth	TX	76102-4133	Your item arrived at the SANTA FE, NM 87504 post office at 10:12 am on December 27, 2021 and is ready for pickup.
9414811898765845500030	Robert C. Grable	4447 Crestline Rd	Fort Worth	TX	76107-1502	Your item was delivered to an individual at the address at 12:52 pm on December 23, 2021 in FORT WORTH, TX 76107.
9414811898765845500078	Ben J. Fortson, Jr., Trustee of the Mwb 1998 Trust	301 Commerce St Ste 3301	Fort Worth	TX	76102-4133	Your item arrived at the SANTA FE, NM 87504 post office at 10:12 am on December 27, 2021 and is ready for pickup.
9414811898765845500412	Ben J. Fortson, Jr., Trustee of the Ccb 1998 Trust	301 Commerce St Ste 3301	Fort Worth	TX	76102-4133	Your item arrived at the SANTA FE, NM 87504 post office at 10:12 am on December 27, 2021 and is ready for pickup.
9414811898765845500450	Ben J. Fortson, Jr., Trustee of the Dcb 1998 Trust	301 Commerce St Ste 3301	Fort Worth	TX	76102-4133	Your item arrived at the SANTA FE, NM 87504 post office at 10:12 am on December 27, 2021 and is ready for pickup.
9414811898765845500467	Sundance Minerals I	PO Box 17744	Fort Worth	TX	76102-0744	Your item was delivered at 9:03 am on December 21, 2021 in FORT WORTH, TX 76102.
9414811898765845500429	Malaga Royalty, LLC	400 N Marienfeld St Ste 200	Midland	TX	79701-4559	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765845500498	Malaga EF7, LLC	1100 Louisiana St Ste 4900	Houston	TX	77002-5217	Your item was delivered to an individual at the address at 10:34 am on December 23, 2021 in HOUSTON, TX 77002.
9414811898765845500443	Oak Valley Mineral and Land, LP	731 W Wadley Ave Bldg L	Midland	TX	79705	Your item could not be delivered on December 29, 2021 at 12:38 pm in SANTA FE, NM 87501. It was held for the required number of days and is being returned to the sender.
9414811898765845500481	CD Ray Exploration, LLC	4 Churchill Way	Midland	TX	79705-1804	Your item was delivered to an individual at the address at 10:58 am on December 21, 2021 in MIDLAND, TX 79705.
9414811898765845500474	Stillwater Investments	6403 Sequoia Dr	Midland	TX	79707-1547	Your item was delivered to an individual at the address at 11:30 am on December 21, 2021 in MIDLAND, TX 79707.
9414811898765845500511	Devon Energy Production Company, LP.	333 W Sheridan Ave	Oklahoma City	OK	73102-5010	Your item was delivered at 9:23 am on December 21, 2021 in OKLAHOMA CITY, OK 73102.
9414811898765845500559	Cimarex Energy Company	600 N Marienfeld St	Midland	TX	79701-4395	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765845500566	WPX Energy Permian, LLC	3500 One Williams Ctr	Tulsa	OK	74172-0135	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765845500528	Harvard Petroleum Company, LLC	PO Box 936	Roswell	NM	88202-0936	Your item was picked up at the post office at 10:52 am on December 21, 2021 in ROSWELL, NM 88201.
9414811898765845500597	Capitan Mountain Oil and Gas, LLC	PO Box 1401	Roswell	NM	88202-1401	Your item was delivered at 1:59 pm on December 22, 2021 in ROSWELL, NM 88201.
9414811898765845500542	Ball Oil and Gas, LLC	PO Box 1401	Roswell	NM	88202-1401	This is a reminder to arrange for redelivery of your item or your item will be returned to sender.
9414811898765845500580	Gerald Childress and wife, Martha G. Childress	2015 Brazos St	Roswell	NM	88201-3361	Your item was delivered to an individual at the address at 11:06 am on December 20, 2021 in ROSWELL, NM 88201.
9414811898765845500535	Har-Vest, LLC	PO Box 936	Roswell	NM	88202-0936	Your item was picked up at the post office at 10:52 am on December 21, 2021 in ROSWELL, NM 88201.
9414811898765845500573	H. Lee Harvard and Jeffrey L. Harvard, H. Lee And Joanne W. Harvard Trust, Co-Trustees	PO Box 936	Roswell	NM	88202-0936	Your item was picked up at the post office at 9:58 am on December 27, 2021 in ROSWELL, NM 88201.

COG\_Gin and Tectonic  
Case Nos. 22460-22462 Postal Delivery Report

9414811898765845508210	J 4 Family Limited Partnership	PO Box 936	Roswell	NM	88202-0936	Your item was picked up at the post office at 10:52 am on December 21, 2021 in ROSWELL, NM 88201.
9414811898765845508258	Patricia Darlene Rodak	817 E 5th St	Roswell	NM	88201-7329	Your item was delivered at 11:08 am on December 24, 2021 in ROSWELL, NM 88201.
9414811898765845508265	Alpha Energy Partners, LLC	PO Box 10701	Midland	TX	79702-7701	Your item could not be delivered on December 29, 2021 at 12:38 pm in SANTA FE, NM 87501. It was held for the required number of days and is being returned to the sender.
9414811898765845508227	Curtis A Anderson & Edna I Anderson, Trustees Of The Edna & Curtis Anderson Revocable Trust Dated August 31, 2021	9314 Cherry Brook Ln	Frisco	TX	75033-0651	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765845508203	John Lawrence Thoma, Trustee of the Cornerstone Family Trust	1664 Foothills Dr S	Golden	CO	80401-9168	Your item departed our USPS facility in ALBUQUERQUE, NM 87101 on December 29, 2021 at 3:01 pm. The item is currently in transit to the destination.
9414811898765845508296	Crown Rock Minerals, L.P.	PO Box 51933	Midland	TX	79710-1933	Your item was picked up at a postal facility at 9:32 am on December 21, 2021 in MIDLAND, TX 79710.
9414811898765845508241	Kimbell Art Foundation	301 Commerce St Ste 2300	Fort Worth	TX	76102-4123	Your item was delivered to the front desk, reception area, or mail room at 11:11 am on December 21, 2021 in FORT WORTH, TX 76102.
9414811898765845508289	MAP00-NET	101 N Robinson Ave	Oklahoma City	OK	73102-5504	Your item was delivered to an individual at the address at 10:54 am on December 21, 2021 in OKLAHOMA CITY, OK 73102.
9414811898765845508234	The Roach Foundation	777 Taylor St	Fort Worth	TX	76102-4919	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765845508272	Bill Burton	301 Commerce St Ste 3301	Fort Worth	TX	76102-4133	Your item arrived at the SANTA FE, NM 87504 post office at 10:12 am on December 27, 2021 and is ready for pickup.
9414811898765845508814	Ben J. Fortson, III, Trustee of the Ben J. Fortson, III Childrens Trust	301 Commerce St Ste 3301	Fort Worth	TX	76102-4133	Your item arrived at the SANTA FE, NM 87504 post office at 10:12 am on December 27, 2021 and is ready for pickup.
9414811898765845508852	Robert C. Grable	4447 Crestline Rd	Fort Worth	TX	76107-1502	Your item was delivered to an individual at the address at 11:29 am on December 21, 2021 in FORT WORTH, TX 76107.
9414811898765845508869	Ben J. Fortson, Jr., Trustee of the Mwb 1998 Trust	301 Commerce St Ste 3301	Fort Worth	TX	76102-4133	Your item arrived at the SANTA FE, NM 87504 post office at 10:12 am on December 27, 2021 and is ready for pickup.
9414811898765845508821	Ben J. Fortson, Jr., Trustee of the Ccb 1998 Trust	301 Commerce St Ste 3301	Fort Worth	TX	76102-4133	Your item arrived at the SANTA FE, NM 87504 post office at 10:12 am on December 27, 2021 and is ready for pickup.
9414811898765845508807	Ben J. Fortson, Jr., Trustee of the Dcb 1998 Trust	301 Commerce St Ste 3301	Fort Worth	TX	76102-4133	Your item arrived at the SANTA FE, NM 87504 post office at 10:12 am on December 27, 2021 and is ready for pickup.
9414811898765845508890	Sundance Minerals I	PO Box 17744	Fort Worth	TX	76102-0744	Your item was delivered at 9:03 am on December 21, 2021 in FORT WORTH, TX 76102.
9414811898765845508845	Mitchell Brinninstool	3129 Clearview Dr	San Angelo	TX	76904-7593	Your item was delivered to an individual at the address at 2:42 pm on December 21, 2021 in SAN ANGELO, TX 76904.
9414811898765845508838	Brinninstool XL Ranch, LLC	1523 Butler Dr	San Angelo	TX	76904-9001	Your item was delivered to an individual at the address at 10:38 am on December 21, 2021 in SAN ANGELO, TX 76904.
9414811898765845508876	First America Bank, Trustee of the Annalisa Brinninstool Trust	PO Box 1857	Roswell	NM	88202-1857	Your item was delivered at 12:48 pm on December 20, 2021 in ROSWELL, NM 88201.
9414811898765845508753	Worrall Investment Corporation	PO Box 1834	Roswell	NM	88202-1834	Your item was picked up at a postal facility at 2:26 pm on December 21, 2021 in ROSWELL, NM 88201.
9414811898765845508760	Mitchell Exploration, Inc.	500 N Kentucky Ave	Roswell	NM	88201-4721	Your item arrived at the SANTA FE, NM 87501 post office at 7:37 am on December 28, 2021 and is ready for pickup.
9414811898765845508722	Scott-Winn, LLC	40 First Plaza Ctr NW Ste 610	Albuquerque	NM	87102-5801	Your item was delivered to the front desk, reception area, or mail room at 3:03 pm on December 20, 2021 in ALBUQUERQUE, NM 87102.
9414811898765845508708	Permian Basin Investment Corporation	648 Petroleum Bldg	Roswell	NM	88201	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765845508791	Susan S. Murphy, Trustee of the Susan S. Murphy Marital Trust U/T/A/ Dated November 15, 2012	PO Box 2484	Roswell	NM	88202-2484	Your item was delivered at 11:09 am on December 20, 2021 in ROSWELL, NM 88201.
9414811898765845508746	Susan S. Murphy, as separate property	PO Box 2484	Roswell	NM	88202-2484	Your item was delivered at 11:09 am on December 20, 2021 in ROSWELL, NM 88201.
9414811898765845508784	Frank S. Morgan an wife, Robin L. Morgan	135 W Cottonwood Rd	Artesia	NM	88210-9224	Your item was delivered to an individual at the address at 7:10 am on December 21, 2021 in ARTESIA, NM 88210.
9414811898765845508739	Hutchings Oil Company	3235 Calle De Deborah NW	Albuquerque	NM	87104-3001	Your item was delivered to an individual at the address at 3:12 pm on December 20, 2021 in ALBUQUERQUE, NM 87104.
9414811898765845508777	Harvard Petroleum Company, LLC	200 E 2nd St	Roswell	NM	88201-6212	Your item was delivered to the front desk, reception area, or mail room at 12:18 pm on December 20, 2021 in ROSWELL, NM 88201.
9414811898765845508913	Malaga Royalty, LLC	400 N Marienfeld St Ste 200	Midland	TX	79701-4559	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765845508951	Malaga EF7, LLC	1100 Louisiana St Ste 4900	Houston	TX	77002-5217	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765845508968	XTO Holdings, LLC	22777 Springwoods Village Pkwy	Spring	TX	77389-1425	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765845508920	Devon Energy Production Company, LP.	333 W Sheridan Ave	Oklahoma City	OK	73102-5010	Your item was delivered at 9:23 am on December 21, 2021 in OKLAHOMA CITY, OK 73102.

COG\_Gin and Tectonic  
Case Nos. 22460-22462 Postal Delivery Report

9414811898765845508906	Case-Pomeroy Oil Corporation	521 5th Ave Fl 36	New York	NY	10175-3699	Your item has been delivered to an agent for final delivery in NEW YORK, NY 10175 on December 20, 2021 at 9:53 am.
9414811898765845508999	EOG Resources, Inc	5509 Champions Dr	Midland	TX	79706-2843	Your item was picked up at a postal facility at 7:55 am on December 27, 2021 in MIDLAND, TX 79701.
9414811898765845508944	Cimarex Energy Company	600 N Marienfeld St Ste 600	Midland	TX	79701-4405	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765845508982	WPX Energy Permian, LLC	3500 One Williams Ctr	Tulsa	OK	74172-0135	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765845508937	Otter Creek, LLC	PO Box 1557	Sealy	TX	77474-1557	Your item was picked up at the post office at 10:41 am on December 21, 2021 in SEALY, TX 77474.
9414811898765845508616	Betelgeuse Production	PO Box 1937	Fredericksburg	TX	78624-1909	This is a reminder to arrange for redelivery of your item or your item will be returned to sender.
9414811898765845508661	Curtis A Anderson & Edna I Anderson, Trustees Of The Edna & Curtis Anderson Revocable Trust Dated August 31, 2021	9314 Cherry Brook Ln	Frisco	TX	75033-0651	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765845508609	John Lawrence Thoma, Trustee of the Cornerstone Family Trust	1664 Foothills Dr S	Golden	CO	80401-9168	Your item departed our USPS facility in ALBUQUERQUE, NM 87101 on December 29, 2021 at 3:01 pm. The item is currently in transit to the destination.
9414811898765845508678	Crown Rock Minerals, L.P.	PO Box 51933	Midland	TX	79710-1933	Your item was picked up at a postal facility at 9:32 am on December 21, 2021 in MIDLAND, TX 79710.
9414811898765845508159	Kimbell Art Foundation	301 Commerce St Ste 2300	Fort Worth	TX	76102-4123	Your item was delivered to the front desk, reception area, or mail room at 11:11 am on December 21, 2021 in FORT WORTH, TX 76102.
9414811898765845508128	MAP00-NET	101 N Robinson Ave	Oklahoma City	OK	73102-5504	Your item has been delivered to an agent for final delivery in OKLAHOMA CITY, OK 73102 on December 20, 2021 at 2:30 pm.
9414811898765845508197	The Roach Foundation	777 Taylor St	Fort Worth	TX	76102-4919	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765845508135	Bill Burton	301 Commerce St Ste 3301	Fort Worth	TX	76102-4133	Your item arrived at the SANTA FE, NM 87504 post office at 10:12 am on December 27, 2021 and is ready for pickup.
9414811898765845508357	Ben J. Fortson, III, Trustee of the Ben J. Fortson, III Childrens Trust	301 Commerce St Ste 3301	Fort Worth	TX	76102-4133	Your item arrived at the SANTA FE, NM 87504 post office at 10:12 am on December 27, 2021 and is ready for pickup.
9414811898765845508364	Robert C. Grable	4447 Crestline Rd	Fort Worth	TX	76107-1502	Your item was delivered to an individual at the address at 11:30 am on December 21, 2021 in FORT WORTH, TX 76107.
9414811898765845508302	Ben J. Fortson, Jr., Trustee of the Mwb 1998 Trust	301 Commerce St Ste 3301	Fort Worth	TX	76102-4133	Your item arrived at the SANTA FE, NM 87504 post office at 10:12 am on December 27, 2021 and is ready for pickup.
9414811898765845508340	Ben J. Fortson, Jr., Trustee of the Ccb 1998 Trust	301 Commerce St Ste 3301	Fort Worth	TX	76102-4133	Your item arrived at the SANTA FE, NM 87504 post office at 10:12 am on December 27, 2021 and is ready for pickup.
9414811898765845508333	Ben J. Fortson, Jr., Trustee of the Dcb 1998 Trust	301 Commerce St Ste 3301	Fort Worth	TX	76102-4133	Your item arrived at the SANTA FE, NM 87504 post office at 10:12 am on December 27, 2021 and is ready for pickup.
9414811898765845508012	Sundance Minerals I	PO Box 17744	Fort Worth	TX	76102-0744	Your item was delivered at 9:03 am on December 21, 2021 in FORT WORTH, TX 76102.
9414811898765845508067	Malaga Royalty, LLC	400 N Marienfeld St Ste 200	Midland	TX	79701-4559	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765845508098	Malaga EF7, LLC	1100 Louisiana St Ste 4900	Houston	TX	77002-5217	Your item was delivered to the front desk, reception area, or mail room at 12:28 pm on December 21, 2021 in HOUSTON, TX 77002.
9414811898765845508036	Oak Valley Mineral and Land, LP	731 W Wadley Ave Bldg L	Midland	TX	79705	Your item could not be delivered on December 29, 2021 at 12:38 pm in SANTA FE, NM 87501. It was held for the required number of days and is being returned to the sender.
9414811898765845508418	CD Ray Exploration, LLC	4 Churchill Way	Midland	TX	79705-1804	Your item was delivered to an individual at the address at 10:58 am on December 21, 2021 in MIDLAND, TX 79705.
9414811898765845508463	Stillwater Investments	6403 Sequoia Dr	Midland	TX	79707-1547	Your item was delivered to an individual at the address at 11:30 am on December 21, 2021 in MIDLAND, TX 79707.
9414811898765845508401	Devon Energy Production Company, LP.	333 W Sheridan Ave	Oklahoma City	OK	73102-5010	Your item was delivered at 9:23 am on December 21, 2021 in OKLAHOMA CITY, OK 73102.
9414811898765841899640	Anthracite Energy Partners, LLC	PO Box 52370	Midland	TX	79710-2370	This is a reminder to arrange for redelivery of your item or your item will be returned to sender.
9414811898765841899688	AmericaWest Resources, LLC	PO Box 3383	Midland	TX	79702-3383	Your item was delivered at 11:04 am on March 25, 2022 in MIDLAND, TX 79701.
9414811898765841899633	Tailwag Resources, LLC	201 W Wall St Ste 201	Midland	TX	79701-4570	Your item was delivered to the front desk, reception area, or mail room at 10:17 am on March 22, 2022 in MIDLAND, TX 79701.
9414811898765841899114	Apollo Permian, LLC	PO Box 14779	Oklahoma City	OK	73113-0779	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414811898765841899169	HW Land Company, LLC	3711 N Classen Blvd	Oklahoma City	OK	73118-2839	Your item was picked up at the post office at 9:45 am on March 22, 2022 in OKLAHOMA CITY, OK 73118.

# Affidavit of Publication

STATE OF NEW MEXICO  
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated  
March 20, 2022  
and ending with the issue dated  
March 20, 2022.



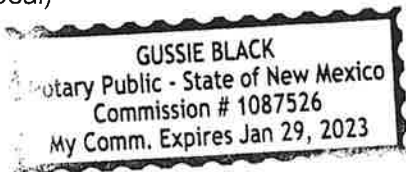
Publisher

Sworn and subscribed to before me this  
20th day of March 2022.



Business Manager

My commission expires  
January 29, 2023  
(Seal)



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

**LEGAL NOTICE**  
March 20, 2022

**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 public hearing for the following case will be electronic and conducted remotely. The hearing will be conducted on **Thursday, April 7, 2022, beginning at 8:15 a.m.** To participate in the electronic hearing, see the instructions posted below. The docket may be viewed at <https://www.emnrd.nm.gov/ocd/hearing-info/> or obtained from Marlene Salvidrez, at [Marlene.Salvidrez@state.nm.us](mailto:Marlene.Salvidrez@state.nm.us). Documents filed in the case may be viewed at <https://ocdimage.emnrd.nm.gov/Imaging/Default.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](mailto:Marlene.Salvidrez@state.nm.us), or the New Mexico Relay Network at 1-800-659-1779, no later than **March 27, 2022**.

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

<https://nmemnrd.webex.com/nmemnrd/onstage/g.php?MTID=e7a826ddc565491e5572809154e64648d>  
Event number: 2483 816 0092  
Event password: mJKbXvy44W2

Join by video: 24838160092@nmemnrd.webex.com  
Numeric Password: 468428  
You can also dial 173.243.2.68 and enter your meeting number

Join by audio: 1-844-992-4726 United States Toll Free  
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**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 interest owners subject to pooling proceedings, including: Anthracite Energy Partners, LLC; AmericaWest Resources, LLC; and Tailwag Resources, LLC.**

**Case No. 22460: Application of COG Operating LLC for compulsory pooling, Lea County, New Mexico.** Applicant in the above-styled cause seeks an order pooling all uncommitted interests in a portion of the Bone Spring formation, from a depth of 10,000 feet to the base of the Bone Spring formation, underlying a standard 639.87-acre, more or less, horizontal spacing unit comprised of Lots 3 & 4, S/2NW/4, SW/4 (W/2 equivalent) of Section 5, Township 24 South, Range 32 East and the W/2 of Section 32, Township 23 South, Range 32 East, N.M.P.M., Lea County, New Mexico. Applicant seeks to dedicate the above-referenced horizontal spacing unit to the following proposed wells:

- the **Gin and Tectonic Federal Com #504H** well, to be drilled from a surface hole location in SE/4 SW/4 (Unit N) of Section 5 to a bottom hole location in the NE/4 NW/4 (Unit C) of Section 32; and
- the **Gin and Tectonic Federal Com #505H** well and the **Gin and Tectonic Federal Com #506H** well, to be drilled from a surface hole location in SW/4 SW/4 (Unit M) of Section 5 to a bottom hole location in the NW/4 NW/4 (Unit D) of Section 32.

The completed interval for the proposed **Gin and Tectonic Federal Com #505H** well will be within 330' of the line separating the E/2 W/2 and W/2 W/2 to allow inclusion of this acreage in the spacing unit. 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 22 miles east of Malaga, New Mexico.

**#37452**

67100754

00264911

HOLLAND & HART LLC  
PO BOX 2208  
SANTA FE, NM 87504-2208

**BEFORE THE OIL CONSERVATION DIVISION**  
Santa Fe, New Mexico  
Exhibit No. F  
Submitted by: COG OPERATING LLC  
Hearing Date: April 7, 2022  
Case Nos. 22460-22462

# Affidavit of Publication

STATE OF NEW MEXICO  
COUNTY OF LEA

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Beginning with the issue dated  
March 20, 2022  
and ending with the issue dated  
March 20, 2022.



Publisher

Sworn and subscribed to before me this  
20th day of March 2022.



Business Manager

My commission expires  
January 29, 2023  
(Seal)

**GUSSIE BLACK**  
Notary Public - State of New Mexico  
Commission # 1087526  
My Comm. Expires Jan 29, 2023

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**LEGAL NOTICE**  
March 20, 2022

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**ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT**  
**OIL CONSERVATION DIVISION**  
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**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 interest owners subject to pooling proceedings, including: Apollo Permian, LLC and HW Land Company, LLC.**

**Case No. 22461: Application of COG Operating LLC for compulsory pooling, Lea County, New Mexico.** Applicant in the above-styled cause seeks an order pooling all uncommitted interest owners in the Wolfcamp formation underlying a standard 639.13-acre, more or less, horizontal spacing unit comprised of Lots 1 & 2, S/2NE/4, SE/4 (E/2 equivalent) of Section 5, Township 24 South, Range 32 East and the E/2 of Section 32, Township 23 South, Range 32 East, N.M.P.M., Lea County, New Mexico. Applicant seeks to dedicate the above-referenced horizontal spacing unit to the following proposed wells:

- the Gin and Tectonic Federal Com #701H well, and the Gin and Tectonic Federal Com #702H well, to be drilled from a surface hole location in SE/4 SE/4 (Unit P) of Section 5 to a bottom hole location in the NE/4 NE/4 (Unit A) of Section 32;
- the Gin and Tectonic Federal Com #703H well, to be drilled from a surface hole location in SE/4 SE/4 (Unit P) of Section 5 to a bottom hole location in the NW/4 NE/4 (Unit B) of Section 32; and
- the Gin and Tectonic Federal Com #704H well, to be drilled from a surface hole location in SW/4 SE/4 (Unit O) of Section 5 to a bottom hole location in the NW/4 NE/4 (Unit B) of Section 32.

The completed interval of the **Gin and Tectonic Federal Com #702H well** will be within 330' of the line separating the E/2 E/2 and W/2 E/2 to allow inclusion of this acreage in the spacing unit. 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 22 miles east of Malaga, New Mexico.

**#37453**

67100754

00264912

HOLLAND & HART LLC  
PO BOX 2208  
SANTA FE, NM 87504-2208



# Affidavit of Publication

STATE OF NEW MEXICO  
COUNTY OF LEA

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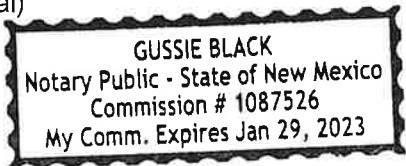
Publisher

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20th day of March 2022.



Business Manager

My commission expires  
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(Seal)



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March 20, 2022

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OIL CONSERVATION DIVISION  
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**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 interest owners subject to pooling proceedings, including: Anthracite Energy Partners, LLC; AmericaWest Resources, LLC; and Tailwag Resources, LLC.**

**Case No. 22462: Application of COG Operating LLC for compulsory pooling, Lea County, New Mexico.** Applicant in the above-styled cause seeks an order pooling all uncommitted interest owners in the Wolfcamp formation underlying a standard 639.87-acre, more or less, horizontal spacing unit comprised of Lots 3 & 4, S/2NW/4, SW/4 (W/2 equivalent) of Section 5, Township 24 South, Range 32 East and the W/2 of Section 32, Township 23 South, Range 32 East, N.M.P.M., Lea County, New Mexico. Applicant seeks to dedicate the above-referenced horizontal spacing unit to the following proposed wells:  
• the Gin and Tectonic Federal Com #705H well, to be drilled from a surface hole location in SE/4 SW/4 (Unit N) of Section 5 to a bottom hole location in the NE/4 NW/4 (Unit C) of Section 32;  
• the Gin and Tectonic Federal Com #706H well to be drilled from a surface hole location in SW/4 SW/4 (Unit M) of Section 5 to a bottom hole location in the NE/4 NW/4 (Unit C) of Section 32; and  
• the Gin and Tectonic Federal Com #707H well, and the Gin and Tectonic Federal Com #708H well, to be drilled from a surface hole location in SW/4 SW/4 (Unit M) of Section 5 to a bottom hole location in the NW/4 NW/4 (Unit D) of Section 32.  
The completed interval for the proposed **Gin and Tectonic Federal Com #707H** well will be within 330' of the line separating the E/2 W/2 and W/2 W/2 to allow inclusion of this acreage in the spacing unit. 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 22 miles east of Malaga, New Mexico.  
**#37454**

67100754

00264914

HOLLAND & HART LLC  
PO BOX 2208  
SANTA FE, NM 87504-2208