



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

TABLE OF CONTENTS

COG Exhibit A – Compulsory Pooling Application Checklists

COG Exhibit B – Applications of COG Operating LLC for Compulsory Pooling, Lea County, New Mexico

COG Exhibit C – Affidavit of Brian Dart, Landman

COG Exhibit C-1 – Resume

COG Exhibit C-2 – C-102s

COG Exhibit C-3 – Tract Map and Ownership Interests

COG Exhibit C-4 – Chronology of Contacts

COG Exhibit C-5 – Cimarex Letter of Support

COG Exhibit C-6 – Well Proposal/AFE

COG Exhibit D – Affidavit of Joseph Dishron, Geologist

COG Exhibit D-1 – Resume

COG Exhibit D-2 – Locator Map – Bone Spring

COG Exhibit D-3 – Subsea Structure Map – Bone Spring

COG Exhibit D-4 – Cross-Section Map – Bone Spring

COG Exhibit D-5 – Stratigraphic Cross-Section – Bone Spring

COG Exhibit D-6 – Locator Maps – Wolfcamp

COG Exhibit D-7 – Subsea Structure Maps – Wolfcamp

COG Exhibit D-8 – Cross-Section Maps – Wolfcamp

COG Exhibit D-9 – Stratigraphic Cross-Sections – Wolfcamp

COG Exhibit E – Notice Affidavit

COG Exhibit F – Notice of Publication

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

| Case: 22460 | 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 |
| Formation/Pool | |
| 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 |
| Spacing Unit | |
| 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 |
| Other Situations | |
| 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 |
| Well(s) | |
| Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard) | |
| Well #1 | <p>Gin and Tectonic Federal Com #504H well SHL: SE/4 SW/4 (Unit N) of Section 5, Township 24 South, Range 32 East. BHL: NE/4 NW/4 (Unit C) of Section 32, Township 23 South, Range 32 East.</p> <p>Completion Target: Bone Spring formation Well Orientation: south to north Completion Location expected to be: Standard</p> |
| Well #2 | <p>Gin and Tectonic Federal Com #505H well SHL: SW/4 SW/4 (Unit M) of Section 5, Township 24 South, Range 32 East. BHL: NW/4 NW/4 (Unit D) of Section 32, Township 23 South, Range 32 East.</p> <p>Completion Target: Bone Spring formation Well Orientation: south to north Completion Location expected to be: Standard</p> |
| Well #3 | <p>Gin and Tectonic Federal Com #506H well SHL: SW/4 SW/4 (Unit M) of Section 5, Township 24 South, Range 32 East. BHL: NW/4 NW/4 (Unit D) of Section 32, Township 23 South, Range 32 East.</p> <p>Completion Target: Bone Spring formation Well Orientation: south to north Completion Location expected to be: Standard</p> |
| Horizontal Well First and Last Take Points | Exhibit C-2 |
| Completion Target (Formation, TVD and MD) | Exhibit C-2, D-5 |
| AFE Capex and Operating Costs | |
| Drilling Supervision/Month \$ | \$8,000 |
| Production Supervision/Month \$ | \$800 |
| Justification for Supervision Costs | Exhibit C |
| Requested Risk Charge | 200% |
| Notice of Hearing | |
| Proposed Notice of Hearing | Exhibit B |

| | |
|--|-------------|
| Proof of Mailed Notice of Hearing (20 days before hearing) | Exhibit E |
| Proof of Published Notice of Hearing (10 days before hearing) | Exhibit F |
| Ownership Determination | |
| Land Ownership Schematic of the Spacing Unit | Exhibit C-3 |
| Tract List (including lease numbers and owners) | Exhibit C-3 |
| Pooled Parties (including ownership type) | Exhibit C-3 |
| Unlocatable Parties to be Pooled | N/A |
| Ownership Depth Severance (including percentage above & below) | N/A |
| Joinder | |
| Sample Copy of Proposal Letter | Exhibit C-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 |
| Geology | |
| 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 |
| Forms, Figures and Tables | |
| C-102 | Exhibit C-2 |
| Tracts | Exhibit C-3 |
| Summary of Interests, Unit Recapitulation (Tracts) | Exhibit C-3 |
| General Location Map (including basin) | Exhibit D-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 |
| Additional Information | |
| Special Provisions/Stipulations | None |

CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.

Printed Name (Attorney or Party Representative):

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 |
| Formation/Pool | |
| 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 |
| Spacing Unit | |
| 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 |
| Other Situations | |
| 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 |

| | |
|--|---|
| Well(s) | |
| Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard) | |
| Well #1 | <p><u>Gin and Tectonic Federal Com #701H well</u> SHL: SE/4 SE/4 (Unit P) of Section 5, Township 24 South, Range 32 East. BHL: NE/4 NE/4 (Unit A) of Section 32, Township 23 South, Range 32 East.</p> <p>Completion Target: Wolfcamp formation Well Orientation: south to north Completion Location expected to be: Standard</p> |
| Well #2 | <p><u>Gin and Tectonic Federal Com #702H well</u> SHL: SE/4 SE/4 (Unit P) of Section 5, Township 24 South, Range 32 East. BHL: NE/4 NE/4 (Unit A) of Section 32, Township 23 South, Range 32 East.</p> <p>Completion Target: Wolfcamp formation Well Orientation: south to north Completion Location expected to be: Standard</p> |
| Well #3 | <p><u>Gin and Tectonic Federal Com #703H well</u> SHL: SE/4 SE/4 (Unit P) of Section 5, Township 24 South, Range 32 East. BHL: NW/4 NE/4 (Unit B) of Section 32, Township 23 South, Range 32 East.</p> <p>Completion Target: Wolfcamp formation Well Orientation: south to north Completion Location expected to be: Standard</p> |
| Well #4 | <p><u>Gin and Tectonic Federal Com #704H well</u> SHL: SW/4 SE/4 (Unit O) of Section 5, Township 24 South, Range 32 East. BHL: NW/4 NE/4 (Unit B) of Section 32, Township 23 South, Range 32 East.</p> <p>Completion Target: Wolfcamp formation Well Orientation: south to north Completion Location expected to be: Standard</p> |
| Horizontal Well First and Last Take Points | Exhibit C-2 |
| Completion Target (Formation, TVD and MD) | Exhibit C-2, D-9 |
| AFE Capex and Operating Costs | |
| Drilling Supervision/Month \$ | \$8,000 |
| Production Supervision/Month \$ | \$800 |
| Justification for Supervision Costs | Exhibit C |
| Requested Risk Charge | 200% |
| Released to Imaging: 4/5/2022 11:12:27 AM Notice of Hearing | |

| | |
|--|-------------|
| Proposed Notice of Hearing | Exhibit B |
| Proof of Mailed Notice of Hearing (20 days before hearing) | Exhibit E |
| Proof of Published Notice of Hearing (10 days before hearing) | Exhibit F |
| Ownership Determination | |
| Land Ownership Schematic of the Spacing Unit | Exhibit C-3 |
| Tract List (including lease numbers and owners) | Exhibit C-3 |
| Pooled Parties (including ownership type) | Exhibit C-3 |
| Unlocatable Parties to be Pooled | N/A |
| Ownership Depth Severance (including percentage above & below) | N/A |
| Joinder | |
| Sample Copy of Proposal Letter | Exhibit C-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 |
| Geology | |
| 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 |
| Forms, Figures and Tables | |
| C-102 | Exhibit C-2 |
| Tracts | Exhibit C-3 |
| Summary of Interests, Unit Recapitulation (Tracts) | Exhibit C-3 |
| General Location Map (including basin) | Exhibit D-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 |
| Additional Information | |

| | |
|--|--|
| Special Provisions/Stipulations | None |
| CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate. | |
| Printed Name (Attorney or Party Representative): | 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: 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 |
| Formation/Pool | |
| 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 |
| Spacing Unit | |
| 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 |
| Other Situations | |
| 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 |

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

| | |
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| Proposed Notice of Hearing | Exhibit B |
| Proof of Mailed Notice of Hearing (20 days before hearing) | Exhibit E |
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| Ownership Depth Severance (including percentage above & below) | N/A |
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| Sample Copy of Proposal Letter | Exhibit C-6 |
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| Well Orientation (with rationale) | Exhibit D |
| Target Formation | Exhibit D-9 |
| HSU Cross Section | Exhibit D-9 |
| Depth Severance Discussion | N/A |
| Forms, Figures and Tables | |
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| Tracts | Exhibit C-3 |
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| 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 |
| Additional Information | |

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

**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.

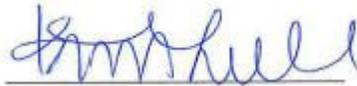
7. In order to permit Applicant to obtain its just and fair share of the oil and gas underlying the subject lands, all uncommitted interests in this horizontal spacing unit should be pooled and Applicant should be designated the operator of the proposed horizontal well spacing unit.

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
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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
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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.

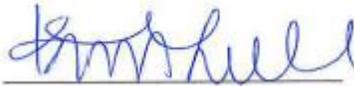
WHEREFORE, Applicant requests that this application be set for hearing before an Examiner of the Oil Conservation Division on January 6, 2022, and, after notice and hearing as required by law, the Division enter an order:

- 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
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Santa Fe, New Mexico 87504-2208
(505) 988-4421
(505) 983-6043 Facsimile
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jbroggi@hollandhart.com
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

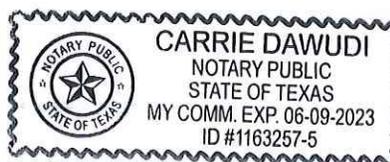
STATE OF TEXAS)
)
COUNTY OF HARRIS)

SUBSCRIBED and SWORN to before me this 1st 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 86240
Phone: (878) 895-8161 Fax: (878) 895-0780

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 86210
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 E. 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 30-025- | Pool Code 96229 | Pool Name Mesa verde; Bone Spring |
| Property Code | Property Name GIN AND TECTONIC FEDERAL COM | Well Number 504H |
| OGRID No. 229137 | Operator Name COG OPERATING, LLC | Elevation 3590.1' |

Surface Location

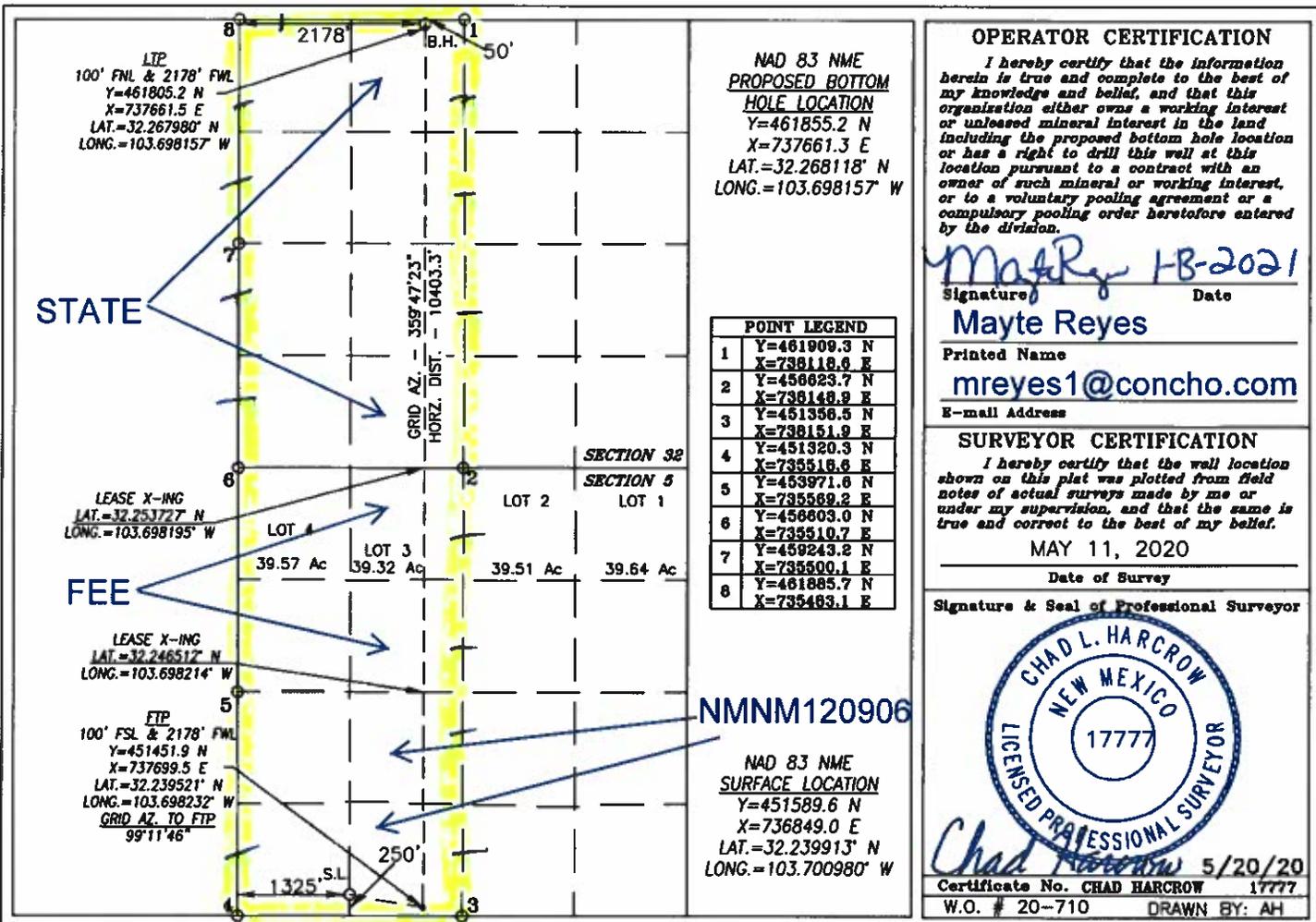
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| N | 5 | 24-S | 32-E | | 250 | SOUTH | 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 639.87 | 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



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) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (876) 748-1283 Fax: (876) 748-0720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (606) 334-0176 Fax: (606) 334-0170

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

Surface Location

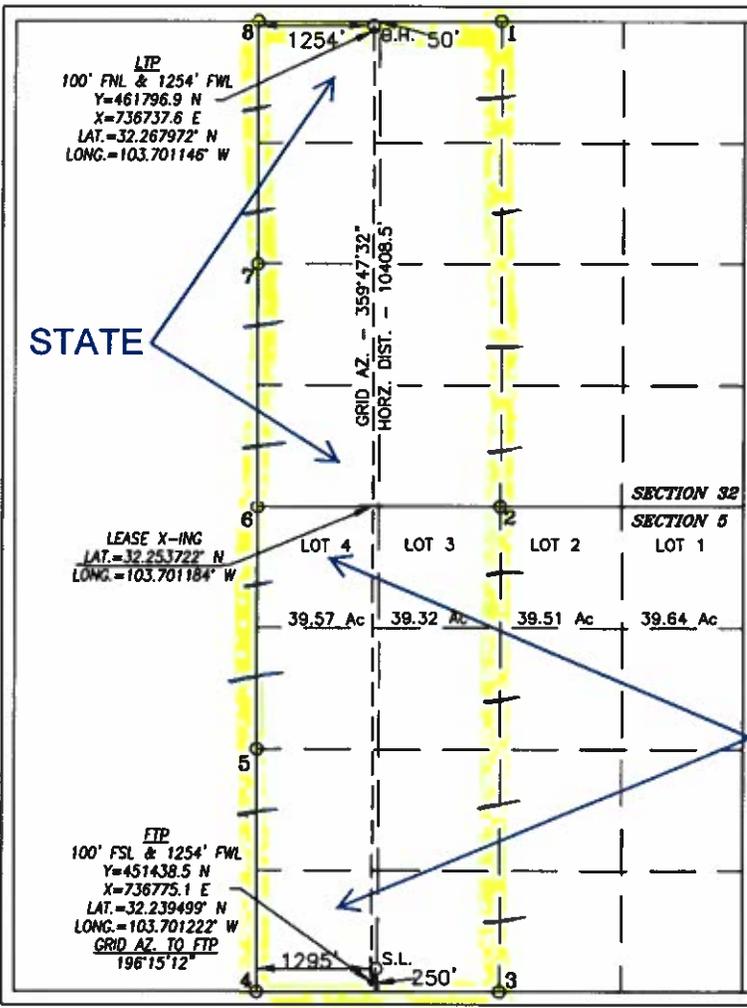
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| M | 5 | 24-S | 32-E | | 250 | SOUTH | 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 639.87 | Joint or Infill | Consolidation Code | Order No. |
|----------------------------------|-----------------|--------------------|-----------|

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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

Signature: _____ Date: 1/3-2021

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

5/20/20

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
Phone: (878) 748-1283 Fax: (878) 748-9720

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

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

Surface Location

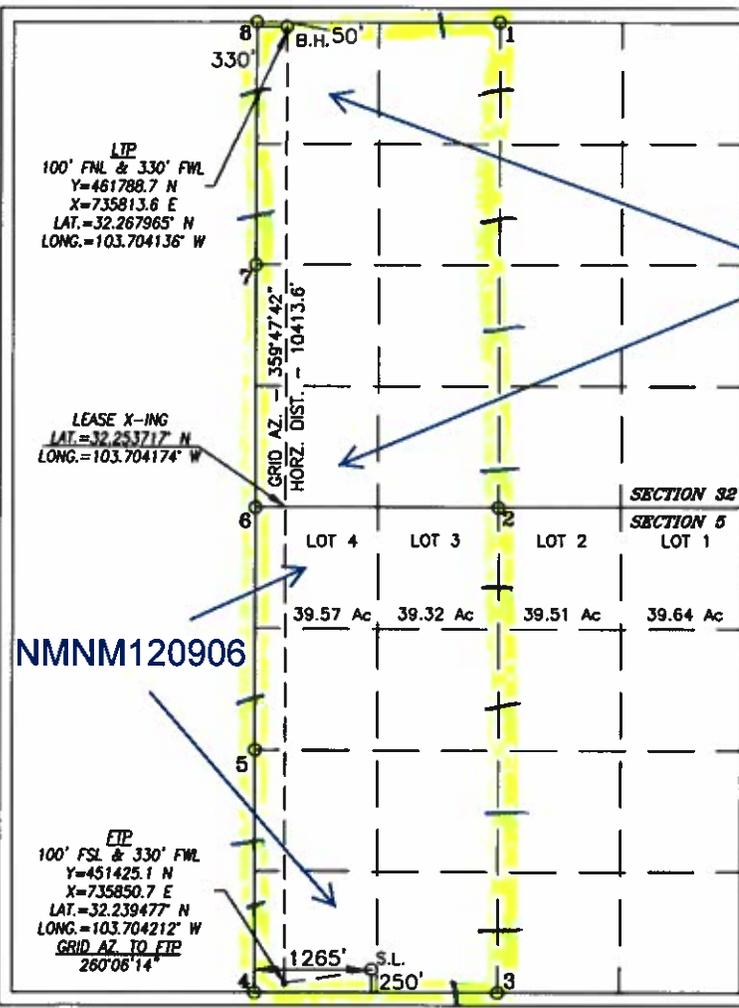
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| M | 5 | 24-S | 32-E | | 250 | SOUTH | 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 639.87 | 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 L. HARCROW
NEW MEXICO
LICENSED PROFESSIONAL SURVEYOR
17777

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

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

Surface Location

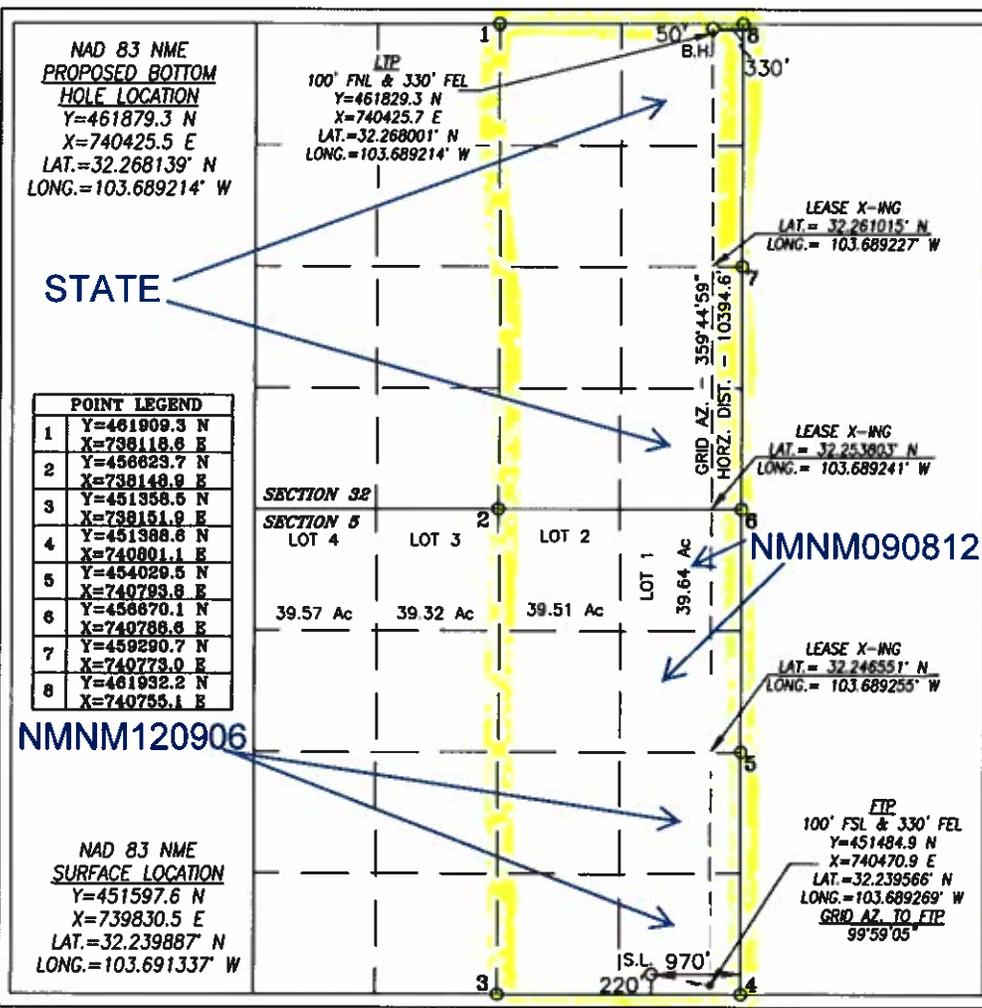
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| P | 5 | 24-S | 32-E | | 220 | SOUTH | 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 639.13 | 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



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 11/3/2021
 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 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. # 20-713 DRAWN BY: DS

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

DISTRICT I
1636 N. FRANK DR., HOES, 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 30-025- | Pool Code 98248 | Pool Name WC-025 G-08 S243217P; Upper Wolfcamp |
| Property Code | Property Name GIN AND TECTONIC FEDERAL COM | Well Number 702H |
| OGRID No. 229137 | Operator Name COG OPERATING, LLC | Elevation 3645.4' |

Surface Location

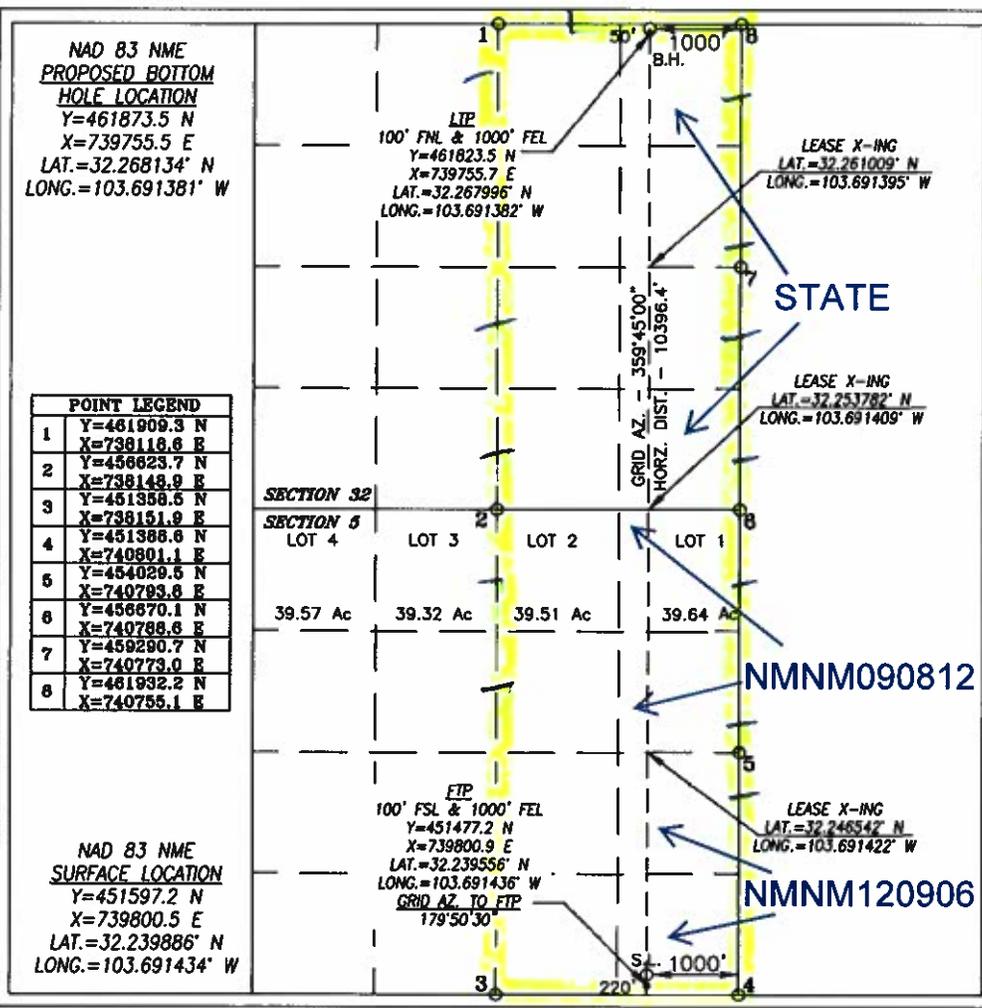
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| P | 5 | 24-S | 32-E | | 220 | SOUTH | 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. |
|-----------------|-----------------|--------------------|-----------|
| 639.13 | | | |

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 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
1420 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 30-025- | Pool Code 98248 | Pool Name WC-025 G-08 S243217P; Upper Wolfcamp |
| Property Code | Property Name GIN AND TECTONIC FEDERAL COM | Well Number 703H |
| OGRID No. 229137 | Operator Name COG OPERATING, LLC | Elevation 3645.7' |

Surface Location

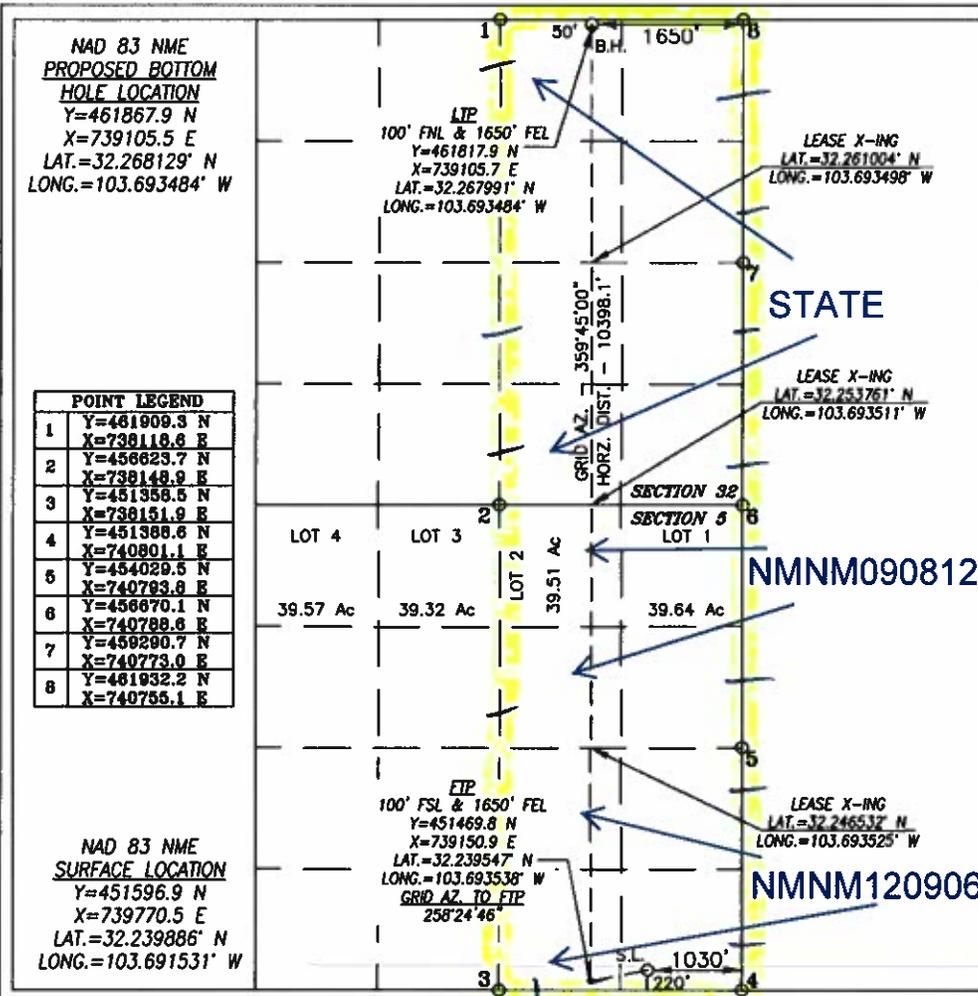
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| P | 5 | 24-S | 32-E | | 220 | SOUTH | 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. |
|-----------------|-----------------|--------------------|-----------|
| 639.13 | | | |

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 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 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 8, 2020
Date of Survey

Signature & Seal of Professional Surveyor

CHAD L. HARCROW
NEW MEXICO
17777
LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 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) 748-1283 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 30-025- | Pool Code 98248 | Pool Name WC-025 G-08 S243217P; Upper Wolfcamp |
| Property Code | Property Name GIN AND TECTONIC FEDERAL COM | Well Number 704H |
| OGRID No. 229137 | Operator Name COG OPERATING, LLC | Elevation 3620.7' |

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 639.13 | 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

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

STATE

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.

Signature: *Mayte Reyes* Date: *11-3-2021*

Printed Name: **Mayte Reyes**

E-mail Address: **mreyes1@concho.com**

SURVEYOR CERTIFICATION

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

MAY 11, 2020

Date of Survey

Signature & Seal of Professional Surveyor

CHAD L. HARCROW
 NEW MEXICO
 LICENSED PROFESSIONAL SURVEYOR
 17777

Signature: *Chad Harcrow* Date: *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) 334-8176 Fax: (505) 334-8170

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
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 District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

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 639.87 | 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

LEASE X-ING
 LAT.=32.253728° N
 LONG.=103.697768° W

NMNM120906

FEE

GRID AZ. = 359°47'22"
 HORZ. DIST. = 10402.6'

SECTION 32
 SECTION 5
 LOT 4
 LOT 3
 LOT 2
 LOT 1

39.57 Ac
 39.32 Ac
 39.51 Ac
 39.64 Ac

2620'
 300'

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 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 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=461908.3 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. FRENCH 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 30-025- | Pool Code 98248 | Pool Name WC-025 G-08 S243217P; Upper Wolfcamp |
| Property Code | Property Name GIN AND TENTONIC FEDERAL COM | Well Number 706H |
| OGRID No. 229137 | Operator Name COG OPERATING, LLC | Elevation 3586.1' |

Surface Location

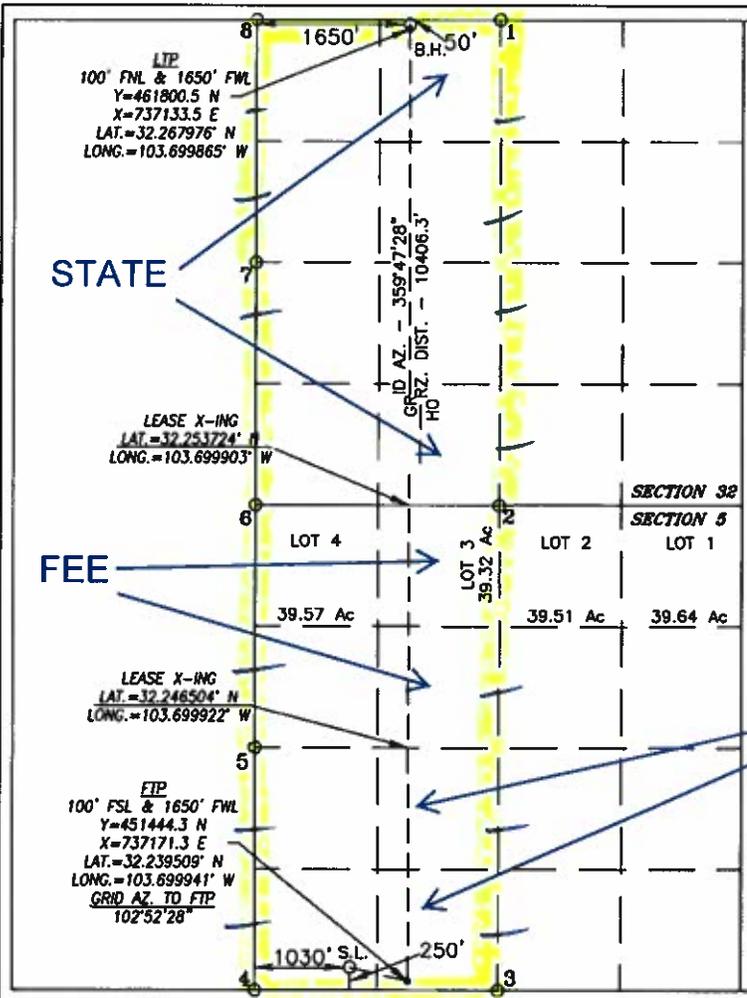
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| M | 5 | 24-S | 32-E | | 250 | SOUTH | 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 639.87 | 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
 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 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

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
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District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

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 639.87 | 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

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

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'

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

SECTION 32
SECTION 5

1000' 250'

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 10-20-21
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

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=461885.7 N |
| | X=735483.1 E |

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

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

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., BOBBS, NM 88240
Phone: (978) 883-6181 Fax: (978) 883-0720

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Phone: (505) 476-3460 Fax: (505) 476-3462

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Santa Fe, New Mexico 87505

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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Surface Location

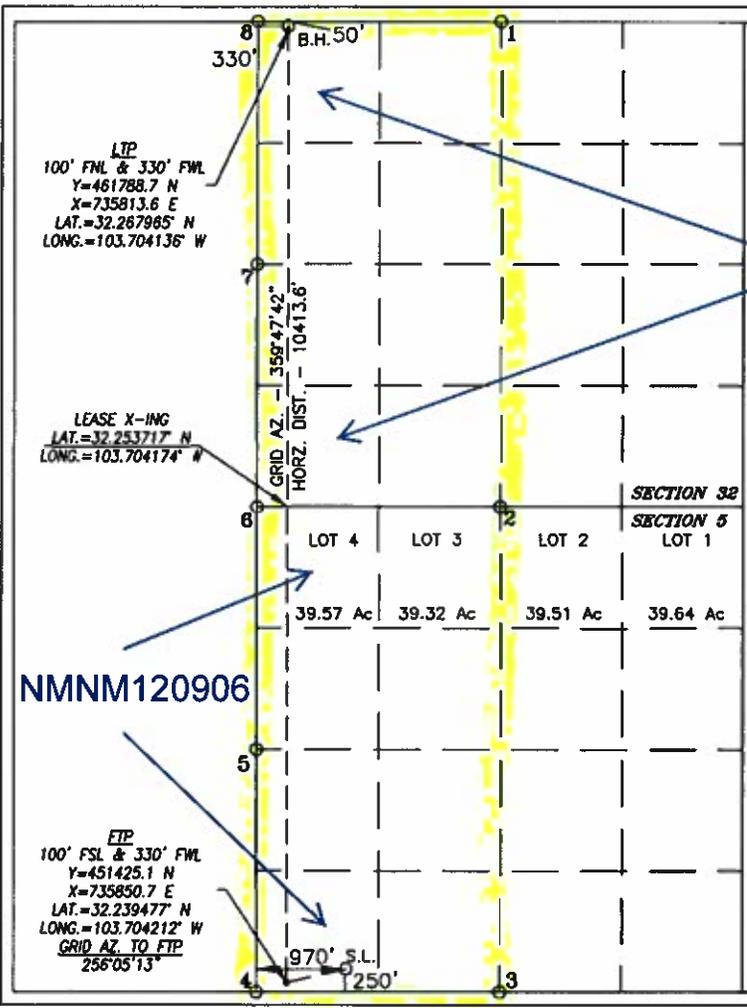
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| M | 5 | 24-S | 32-E | | 250 | SOUTH | 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 639.87 | 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=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.

Signature: *Mayte Reyes* Date: *1-15-2021*

Printed Name: **Mayte Reyes**

E-mail Address: **mreyes1@concho.com**

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

MAY 8, 2020
Date of Survey

Signature & Seal of Professional Surveyor

CHAD L. HARCROW
NEW MEXICO
17777
LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 5/20/20

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 |
| | | | |
| | | | |
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| | |
|--|-----------------|
| | 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

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

| | |
|-----------------------------------|-------------------|
| COG Oil & Gas, LP | 25.000000% |
| Anthracite Energy Partners | 4.500000% |

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

| | |
|-------------------------------|-------------------|
| AmericaWest Resources | 1.500000% |
| Tailwag Resources, LLC | 1.500000% |
| Betelgeuse Production | 7.500000% |
| Cimarex Energy Co. | 60.000000% |

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

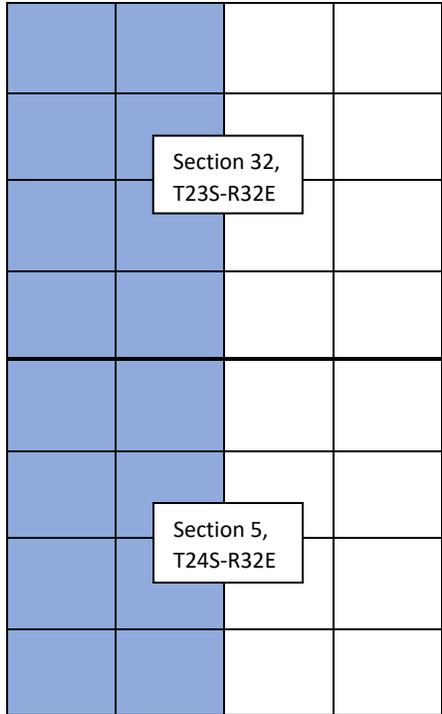
| | |
|---------------------------|--------------------|
| COG Production LLC | 100.000000% |
| Total: | 100.000000% |

Participating Parties

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

| | |
|----------------------------------|--------------------|
| COG Production LLC | 33.333333% |
| COG Operating LLC | 31.666667% |
| Hanley Petroleum, LLC | 28.000000% |
| Concho Oil & Gas, LLC | 1.666667% |
| H6 Holding LLC | 1.666667% |
| LHAH Properties, LLC | 3.333333% |
| TBO Oil & Gas, LLC | 3.333333% |
| Total: | 100.000000% |

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% |
| WPX Energy Permian, LLC | 5.626143% |
| Hanley Petroleum, LLC | 3.493710% |
| Anthracite Energy Partners | 0.562614% |
| AmericaWest Resources | 0.187538% |
| Tailwag Resources, LLC | 0.187538% |
| Betelgeuse Production | 0.937690% |
| H6 Holding LLC | 0.415918% |
| LHAH Properties, LLC | 0.207959% |
| TBO Oil & Gas, LLC | 0.041592% |
| Total: | 100.000000% |

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% |
| COG Operating, LLC | 20.000000% |

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%

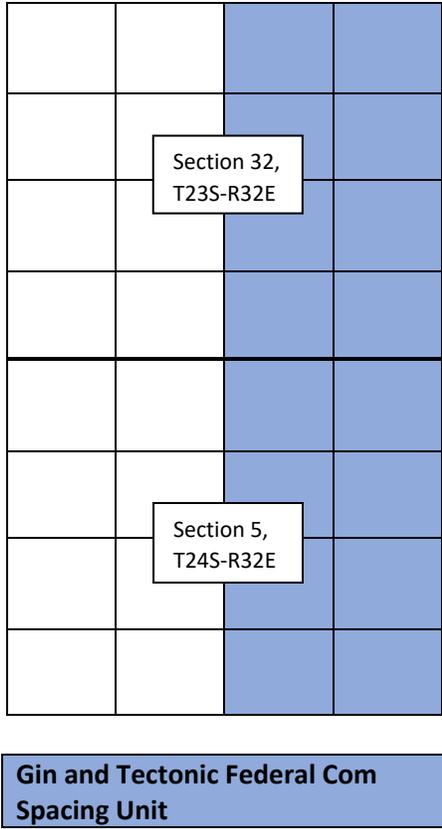
Participating Parties

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

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

Case No. 22462

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

Township 23 South – Range 32 East, NMPM.

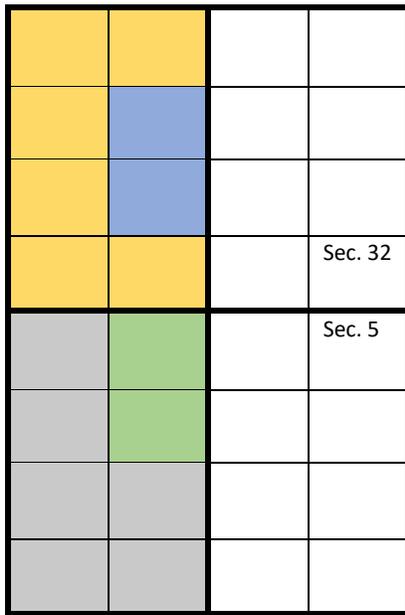
Section 32: W2

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

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

| | |
|-----------------------------------|-------------------|
| COG Oil & Gas, LP | 25.000000% |
| Anthracite Energy Partners | 4.500000% |

| | |
|-------------------------------|-------------------|
| AmericaWest Resources | 1.500000% |
| Tailwag Resources, LLC | 1.500000% |
| Betelgeuse Production | 7.500000% |
| Cimarex Energy Co. | 60.000000% |

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

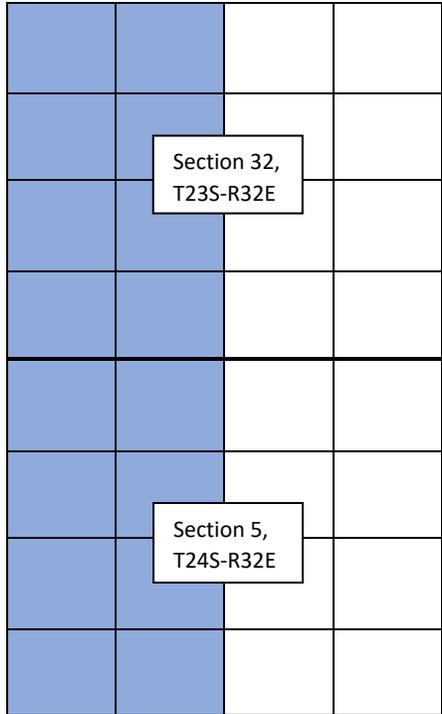
| | |
|---------------------------|--------------------|
| COG Production LLC | 100.000000% |
| Total: | 100.000000% |

Participating Parties

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

| | |
|----------------------------------|--------------------|
| COG Production LLC | 33.333333% |
| COG Operating LLC | 31.666667% |
| Hanley Petroleum, LLC | 28.000000% |
| Concho Oil & Gas, LLC | 1.666667% |
| H6 Holding LLC | 1.666667% |
| LHAH Properties, LLC | 3.333333% |
| TBO Oil & Gas, LLC | 3.333333% |
| Total: | 100.000000% |

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% |
| WPX Energy Permian, LLC | 5.626143% |
| Hanley Petroleum, LLC | 3.493710% |
| Anthracite Energy Partners | 0.562614% |
| AmericaWest Resources | 0.187538% |
| Tailwag Resources, LLC | 0.187538% |
| Betelgeuse Production | 0.937690% |
| H6 Holding LLC | 0.415918% |
| LHAH Properties, LLC | 0.207959% |
| TBO Oil & Gas, LLC | 0.041592% |
| Total: | 100.000000% |

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.

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

_____ 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 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.

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

_____ 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:

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 Gin and Tectonic Wolfcamp 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 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.

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

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 |

| | | Drig - Rig Release(D) | Completion(C) | Tank Btty Constrctn(TB) | Pmpg Equipment(PEQ) | TOTAL | | | |
|---------------------------------------|-----|----------------------------------|----------------------|------------------------------------|--------------------------------|----------------|-----|---------------|------------------|
| INTANGIBLE COSTS | | | | | | | | | |
| 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 |
| TOTAL INTANGIBLES | | 2,534,290 | | 3,684,500 | | 101,343 | | 40,000 | 6,360,133 |

| TANGIBLE COSTS | | | | | | | | | |
|-------------------------------|-----|------------------|-----|------------------|-----|----------------|--------|----------------|------------------|
| 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 |
| TOTAL TANGIBLES | | 549,000 | | 207,000 | | 582,952 | | 94,000 | 1,432,952 |
| TOTAL WELL COSTS | | 3,083,290 | | 3,891,500 | | 684,295 | | 134,000 | 7,793,085 |

| | | | | |
|-----------------------------|------------|------------|-----------|-----------|
| % of Total Well Cost | 40% | 50% | 9% | 2% |
| 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: GIN AND TECTONIC FED COM 505H | 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 |

| | | Drig - Rig Release(D) | Completion(C) | Tank Btty Constrctn(TB) | Pmpg Equipment(PEQ) | TOTAL | | | |
|---------------------------------------|-----|----------------------------------|----------------------|------------------------------------|--------------------------------|----------------|-----|---------------|------------------|
| INTANGIBLE COSTS | | | | | | | | | |
| 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 |
| TOTAL INTANGIBLES | | 2,534,290 | | 3,684,500 | | 101,343 | | 40,000 | 6,360,133 |

| TANGIBLE COSTS | | | | | | | | | |
|-------------------------------|-----|------------------|-----|------------------|-----|----------------|--------|----------------|------------------|
| 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 |
| TOTAL TANGIBLES | | 549,000 | | 207,000 | | 582,952 | | 94,000 | 1,432,952 |
| TOTAL WELL COSTS | | 3,083,290 | | 3,891,500 | | 684,295 | | 134,000 | 7,793,085 |

| | | | | |
|-----------------------------|------------|------------|-----------|-----------|
| % of Total Well Cost | 40% | 50% | 9% | 2% |
| 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: GIN AND TECTONIC FED COM 506H | 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 |

| | | Drig - Rig Release(D) | Completion(C) | Tank Btty Constrctn(TB) | Pmpg Equipment(PEQ) | TOTAL |
|---------------------------------------|-----|----------------------------------|----------------------|------------------------------------|--------------------------------|------------------|
| INTANGIBLE COSTS | | | | | | |
| 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 | 6,000 | 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 |
| Water | 212 | 120,000 | 312 | 511,000 | | 368 |
| Bits | 213 | 83,000 | 313 | | | 369 |
| Mud & Chemicals | 214 | 90,000 | 314 | | | 370 |
| Drill Stem Test | 215 | | 315 | 315,000 | | |
| Coring & Analysis | 216 | | | | | |
| Cement Surface | 217 | 40,920 | | | | |
| Cement Intermediate | 218 | 61,380 | | | | |
| Cement 2nd Intermediate/Production | 219 | 132,990 | | | | |
| Cement Squeeze & Other (Kickoff Plug) | 220 | | | | | |
| Float Equipment & Centralizers | 221 | 65,000 | | | | |
| Casing Crews & Equipment | 222 | 55,000 | | | | |
| Fishing Tools & Service | 223 | | 323 | | | |
| Geologic/Engineering | 224 | | 324 | | | |
| Contract Labor | 225 | 6,500 | 325 | 2,000 | 356 | 73,713 |
| Company Supervision | 226 | 36,000 | 326 | 15,000 | 357 | 2,888 |
| Contract Supervision | 227 | 80,000 | 327 | 128,000 | 358 | |
| Testing Casing/Tubing | 228 | 40,000 | 328 | | | |
| Mud Logging Unit | 229 | 31,000 | 329 | 48,000 | | |
| Logging | 230 | | | | | |
| Perforating/Wireline Services | 231 | | 331 | 242,000 | | |
| Stimulation/Treating | | | 332 | | | |
| Completion Unit | | | 333 | | | |
| Swabbing Unit | | | 334 | | | |
| Rentals-Surface | 235 | 125,000 | 335 | | 359 | |
| Rentals-Subsurface | 236 | 80,000 | 336 | | | |
| Trucking/Forklift/Rig Mobilization | 237 | 200,000 | 337 | 10,000 | 360 | |
| Welding Services | 238 | 3,000 | 338 | | 361 | |
| Water Disposal | 239 | | 339 | 20,000 | 362 | |
| Plug to Abandon | 240 | | 340 | | | |
| Seismic Analysis | 241 | | 341 | | | |
| Miscellaneous | 242 | | 342 | 3,000 | | |
| Contingency | 243 | 66,000 | 343 | 73,000 | 363 | |
| Closed Loop & Environmental | 244 | 205,000 | 344 | | 364 | |
| Fuel - Diesel | 245 | | 345 | 314,000 | | |
| Coil Tubing | | | 346 | 241,000 | | |
| Flowback Crews & Equip | | | 347 | 10,000 | | |
| Offset Directional/Frac | 248 | | 348 | | | |
| TOTAL INTANGIBLES | | 2,534,290 | | 3,684,500 | | 101,343 |
| | | | | | 40,000 | 6,360,133 |

| TANGIBLE COSTS | | | | | | |
|-------------------------------|-----|------------------|-----|------------------|---------|------------------|
| 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 | 32,000 |
| 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 |
| 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 |
| Miscellaneous | 419 | | 519 | | 535 | 0 |
| Contingency | 420 | | 520 | | 536 | 0 |
| Meters/LACT | | | | 525 | | 0 |
| Flares/Combusters/Emission | | | | 526 | 75,514 | 75,514 |
| Gas Lift/Compression | | | 527 | | 528 | 37,000 |
| TOTAL TANGIBLES | | 549,000 | | 207,000 | | 1,432,952 |
| TOTAL WELL COSTS | | 3,083,290 | | 3,891,500 | | 134,000 |
| | | | | | | 7,793,085 |

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: GIN AND TECTONIC FED COM 701H | 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 |

| | | Drig - Rig Release(D) | Completion(C) | Tank Btty Constrctn(TB) | Pmpg Equipment(PEQ) | TOTAL | | | |
|---------------------------------------|-----|----------------------------------|----------------------|------------------------------------|--------------------------------|----------------|-----|----------------|------------------|
| INTANGIBLE COSTS | | | | | | | | | |
| 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 | 6,900 | 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 |
| TOTAL INTANGIBLES | | 2,937,170 | | 3,836,500 | | 101,343 | | 40,000 | 6,915,013 |
| TANGIBLE COSTS | | | | | | | | | |
| 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 | 32,000 | 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 | 10,000 | 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 | 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 |
| TOTAL TANGIBLES | | 812,000 | | 160,000 | | 582,952 | | 94,000 | 1,648,952 |
| TOTAL WELL COSTS | | 3,749,170 | | 3,996,500 | | 684,295 | | 134,000 | 8,563,965 |
| % of Total Well Cost | | 44% | | 47% | | 8% | | 2% | |

COG Operating LLC

Date Prepared: 9/14/21

We approve: _____
% Working Interest

COG Operating LLC

AW-PS-CB

Company: _____
By: _____

Printed Name: _____
Title: _____
Date: _____

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

**COG OPERATING LLC
AUTHORITY FOR EXPENDITURE
DRILLING**

| | |
|---|---------------------------------|
| WELL NAME: GIN AND TECTONIC FED COM 702H | 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 |

| | | Drig - Rig Release(D) | Completion(C) | Tank Btty Constrctn(TB) | Pmpg Equipment(PEQ) | TOTAL | | | |
|---------------------------------------|-----|----------------------------------|----------------------|------------------------------------|--------------------------------|----------------|-----|---------------|------------------|
| INTANGIBLE COSTS | | | | | | | | | |
| 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 | 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 |
| TOTAL INTANGIBLES | | 2,937,170 | | 3,836,500 | | 101,343 | | 40,000 | 6,915,013 |

| TANGIBLE COSTS | | | | | | | | | |
|-------------------------------|-----|------------------|-----|------------------|---------|----------------|---------|----------------|------------------|
| 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 | 32,000 | 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 | 10,000 | 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 | 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 |
| TOTAL TANGIBLES | | 812,000 | | 160,000 | | 582,952 | | 94,000 | 1,648,952 |
| TOTAL WELL COSTS | | 3,749,170 | | 3,996,500 | | 684,295 | | 134,000 | 8,563,965 |

| | | | | |
|-----------------------------|------------|------------|-----------|-----------|
| % of Total Well Cost | 44% | 47% | 8% | 2% |
| 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: GIN AND TECTONIC FED COM 703H | 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 |

| | | Drig - Rig | | | Tank Btty | | Pmpg | |
|---------------------------------------|-----|-------------------|-----|----------------------|----------------------|----------------|-----------------------|------------------|
| | | Release(D) | | Completion(C) | Constrctn(TB) | | Equipment(PEQ) | TOTAL |
| 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 | 10,000 |
| Offset Directional/Frac | 248 | | 348 | | | | | 0 |
| TOTAL INTANGIBLES | | 2,937,170 | | 3,836,500 | | 101,343 | 40,000 | 6,915,013 |

| TANGIBLE COSTS | | | | | | | | |
|-------------------------------|-----|------------------|-----|------------------|-----|----------------|----------------|------------------|
| 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 |
| TOTAL TANGIBLES | | 812,000 | | 160,000 | | 582,952 | 94,000 | 1,648,952 |
| TOTAL WELL COSTS | | 3,749,170 | | 3,996,500 | | 684,295 | 134,000 | 8,563,965 |

| | | | | | |
|-------------------|-----------------------------|------------|------------|-----------|-----------|
| | % of Total Well Cost | 44% | 47% | 8% | 2% |
| COG Operating LLC | | | | | |

Date Prepared: 9/14/21

We approve: _____
% Working Interest

COG Operating LLC

AW-PS-CB

Company: _____
By: _____
Printed Name: _____
Title: _____
Date: _____

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

**COG OPERATING LLC
AUTHORITY FOR EXPENDITURE
DRILLING**

| | |
|---|---------------------------------|
| WELL NAME: GIN AND TECTONIC FED COM 704H | 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 |

| | | Drig - Rig | | | Tank Btty | | Pmpg | |
|---------------------------------------|-----|-------------------|-----|----------------------|----------------------|----------------|-----------------------|------------------|
| | | Release(D) | | Completion(C) | Constrctn(TB) | | Equipment(PEQ) | TOTAL |
| 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 | 10,000 |
| Offset Directional/Frac | 248 | | 348 | | | | | 0 |
| TOTAL INTANGIBLES | | 2,937,170 | | 3,836,500 | | 101,343 | 40,000 | 6,915,013 |

| TANGIBLE COSTS | | | | | | | | |
|-------------------------------|-----|------------------|-----|------------------|-----|----------------|----------------|------------------|
| 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 |
| TOTAL TANGIBLES | | 812,000 | | 160,000 | | 582,952 | 94,000 | 1,648,952 |
| TOTAL WELL COSTS | | 3,749,170 | | 3,996,500 | | 684,295 | 134,000 | 8,563,965 |

| | | | | |
|-----------------------------|------------|------------|-----------|-----------|
| % of Total Well Cost | 44% | 47% | 8% | 2% |
| 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: GIN AND TECTONIC FED COM 705H | 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 | 18,000 |
| Offset Directional/Frac | 248 | | 348 | | | | | 0 |
| TOTAL INTANGIBLES | | 3,816,470 | | 3,836,500 | | 101,343 | 40,000 | 7,794,313 |
| TANGIBLE COSTS | | | | | | | | |
| 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 |
| TOTAL TANGIBLES | | 812,000 | | 160,000 | | 582,952 | 94,000 | 1,648,952 |
| TOTAL WELL COSTS | | 4,628,470 | | 3,996,500 | | 684,295 | 134,000 | 9,443,265 |
| % of Total Well Cost | | 49% | | 42% | | 7% | 1% | |

COG Operating LLC

Date Prepared: 9/14/21

We approve: _____
% Working Interest

COG Operating LLC

AW-PS-CB

Company: _____
By: _____

Printed Name: _____
Title: _____
Date: _____

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

**COG OPERATING LLC
AUTHORITY FOR EXPENDITURE
DRILLING**

| | |
|---|---------------------------------|
| WELL NAME: GIN AND TECTONIC FED COM 706H | 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 |

| | | Drig - Rig | | | Tank Btty | | Pmpg | |
|---------------------------------------|-----|-------------------|-----|----------------------|----------------------|----------------|-----------------------|------------------|
| | | Release(D) | | Completion(C) | Constrctn(TB) | | Equipment(PEQ) | TOTAL |
| 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 |
| TOTAL INTANGIBLES | | 2,937,170 | | 3,836,500 | | 101,343 | 40,000 | 6,915,013 |

| TANGIBLE COSTS | | | | | | | | |
|-------------------------------|-----|------------------|-----|------------------|-----|----------------|----------------|------------------|
| 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 |
| TOTAL TANGIBLES | | 812,000 | | 160,000 | | 582,952 | 94,000 | 1,648,952 |
| TOTAL WELL COSTS | | 3,749,170 | | 3,996,500 | | 684,295 | 134,000 | 8,563,965 |

| | | | | |
|-----------------------------|------------|------------|-----------|-----------|
| % of Total Well Cost | 44% | 47% | 8% | 2% |
| 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: GIN AND TECTONIC FED COM 707H | 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 |

| | | Drig - Rig Release(D) | Completion(C) | Tank Btty Constrctn(TB) | Pmpg Equipment(PEQ) | TOTAL | | | |
|---------------------------------------|-----|----------------------------------|----------------------|------------------------------------|--------------------------------|----------------|-------|---------------|------------------|
| INTANGIBLE COSTS | | | | | | | | | |
| 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 | 352 | | 87,000 | | | |
| Location/Pits/Road Expense | 205 | 165,000 | 305 | 353 | 23,779 | 366 | 4,000 | 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 | 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 |
| TOTAL INTANGIBLES | | 2,937,170 | | 3,836,500 | | 101,343 | | 40,000 | 6,915,013 |

| TANGIBLE COSTS | | | | | | | | | |
|-------------------------------|-----|------------------|-----|------------------|-----|----------------|-----|----------------|------------------|
| 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 | 32,000 | 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 | 10,000 | 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 | 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 |
| TOTAL TANGIBLES | | 812,000 | | 160,000 | | 582,952 | | 94,000 | 1,648,952 |
| TOTAL WELL COSTS | | 3,749,170 | | 3,996,500 | | 684,295 | | 134,000 | 8,563,965 |

| | | | | | |
|-------------------------|-----------------------------|------------------------|------------|-----------|-----------|
| | % of Total Well Cost | 44% | 47% | 8% | 2% |
| COG Operating LLC | | | | | |
| | | Date Prepared: 9/14/21 | | | |
| We approve: | | COG Operating LLC | | | |
| _____% Working Interest | | AW-PS-CB | | | |
| Company: | | | | | |
| By: | | | | | |
| Printed Name: | | | | | |
| Title: | | | | | |
| Date: | | | | | |

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

**COG OPERATING LLC
AUTHORITY FOR EXPENDITURE
DRILLING**

| | |
|---|---------------------------------|
| WELL NAME: GIN AND TECTONIC FED COM 708H | 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 |

| | | Drig - Rig Release(D) | Completion(C) | Tank Btty Constrctn(TB) | Pmpg Equipment(PEQ) | TOTAL | | | |
|---------------------------------------|-----|----------------------------------|----------------------|------------------------------------|--------------------------------|----------------|-----|---------------|------------------|
| INTANGIBLE COSTS | | | | | | | | | |
| 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 | 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 |
| TOTAL INTANGIBLES | | 2,937,170 | | 3,836,500 | | 101,343 | | 40,000 | 6,915,013 |

| TANGIBLE COSTS | | | | | | | | |
|-------------------------------|-----|------------------|-----|------------------|---------|----------------|----------------|------------------|
| 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 | 32,000 | 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 | 10,000 | 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 | 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 |
| TOTAL TANGIBLES | | 812,000 | | 160,000 | | 582,952 | 94,000 | 1,648,952 |
| TOTAL WELL COSTS | | 3,749,170 | | 3,996,500 | | 684,295 | 134,000 | 8,563,965 |

COG Operating LLC **% of Total Well Cost** **44%** **47%** **8%** **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.

**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.

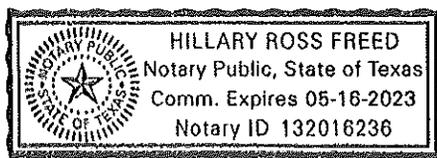
FURTHER AFFIANT SAYETH NAUGHT.



 JOSEPH DISHRON

STATE OF TEXAS)
)
 COUNTY OF MIDLAND)

SUBSCRIBED and SWORN to before me this 1st 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

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

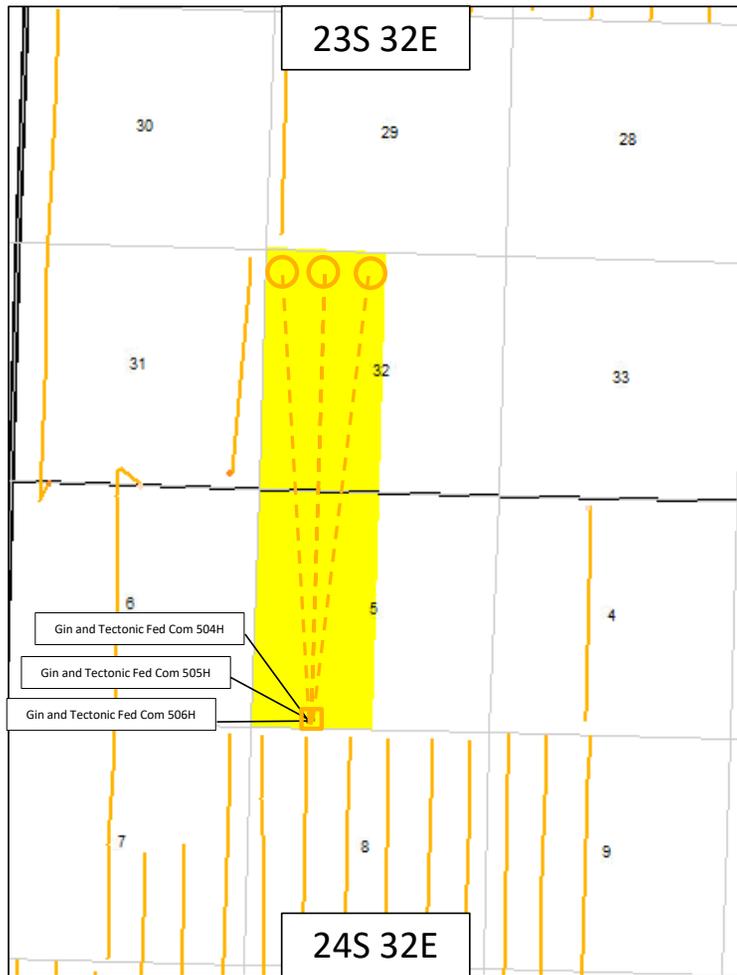
Alpine, TX

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

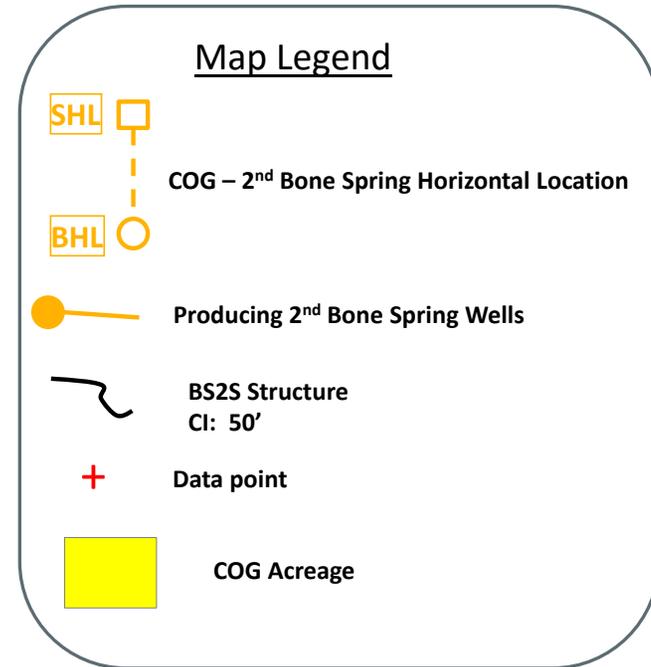
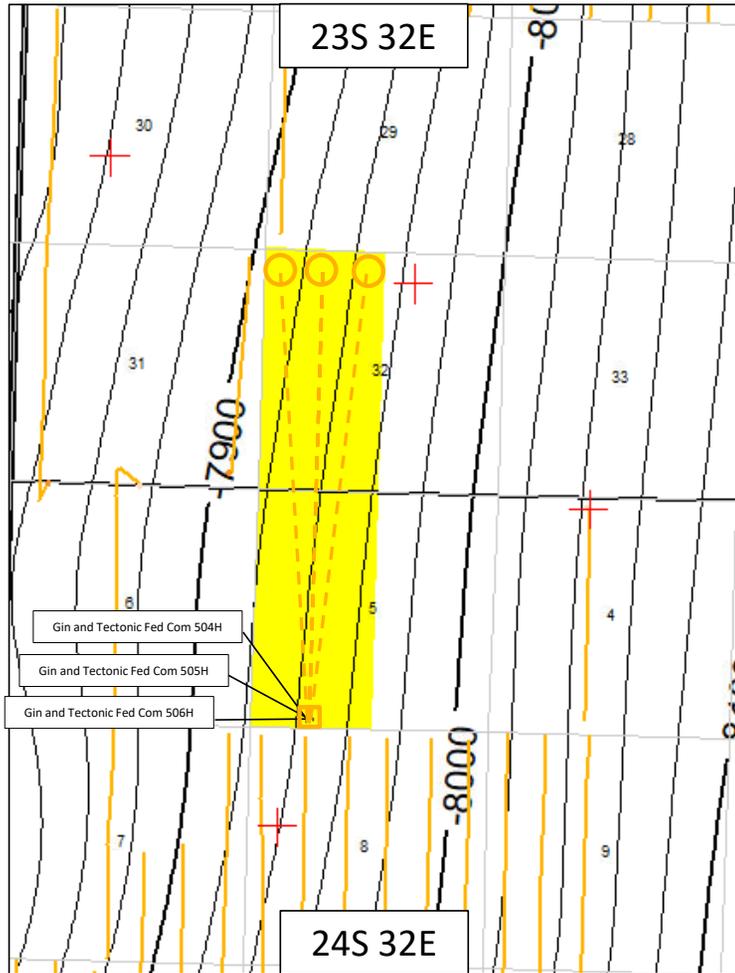
Case No. 22460: Gin & Tectonic Fed Com (W/2 BS) 504H, 505H, 506H



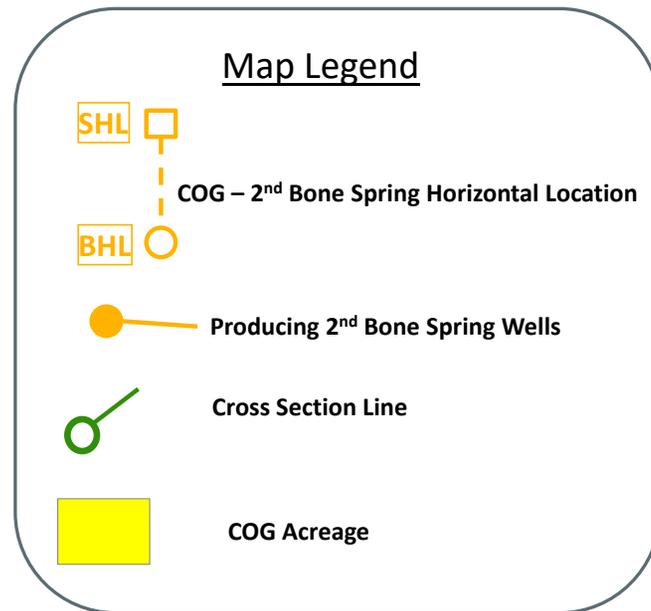
Map Legend

- SHL COG – 2nd Bone Spring Horizontal Location
- BHL Producing 2nd Bone Spring Wells
- COG Acreage

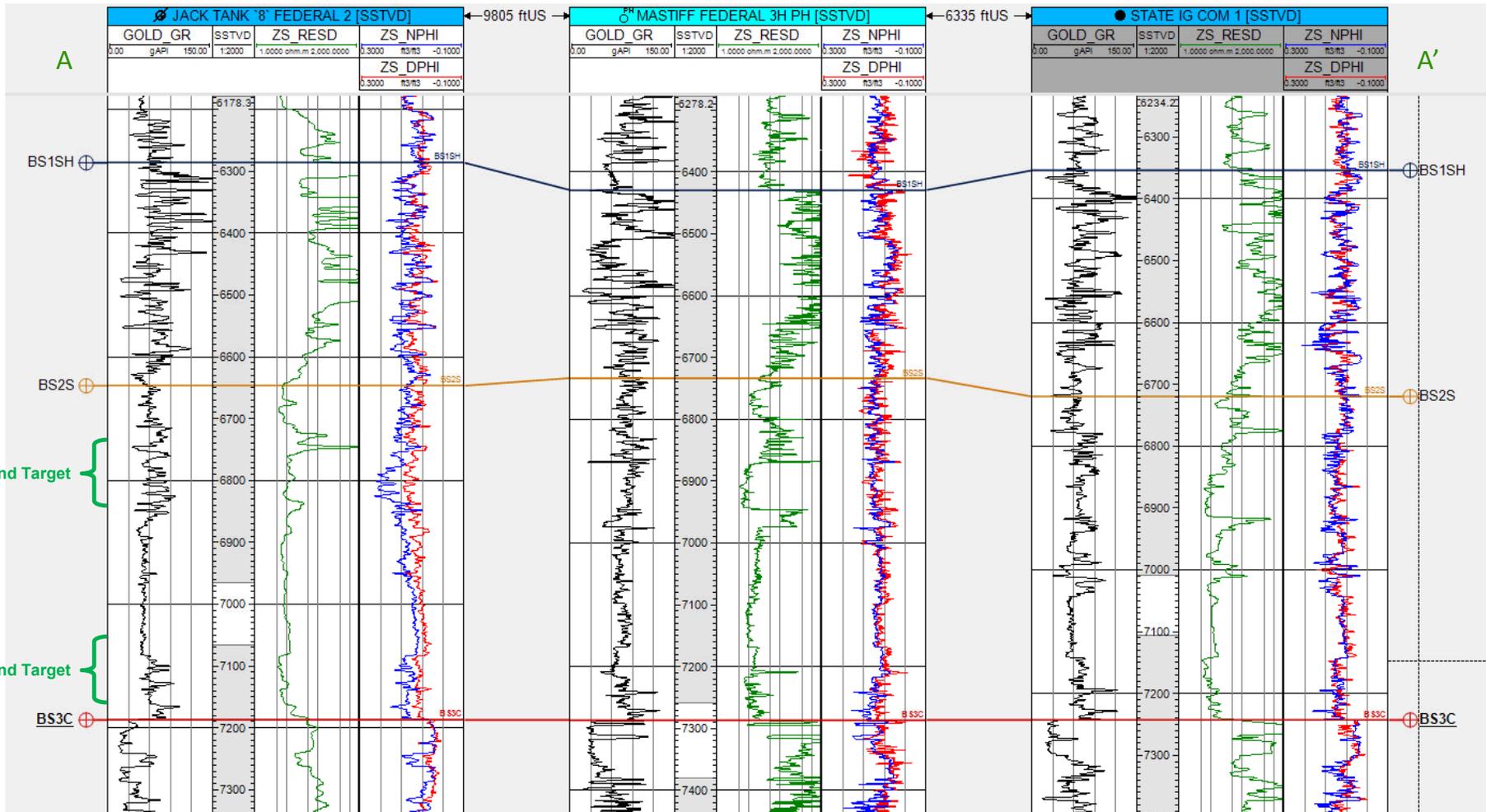
Case No. 22460: Gin & Tectonic Fed Com – 3rd Bone Spring Carb Structure Map



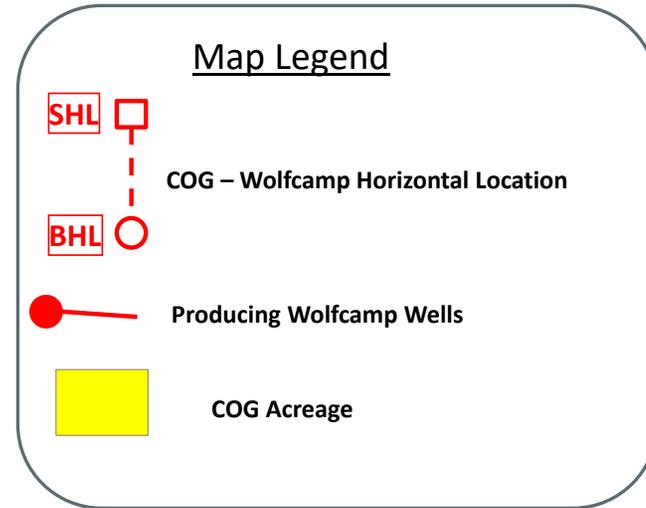
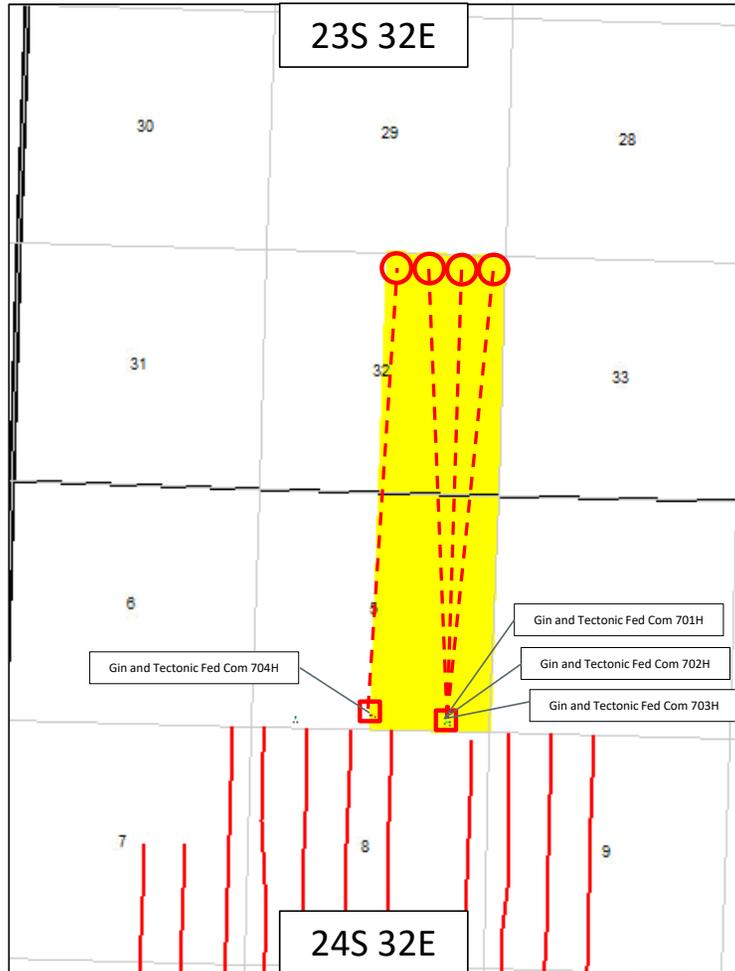
Case No. 22460: Gin & Tectonic Fed Com – Cross Section Map



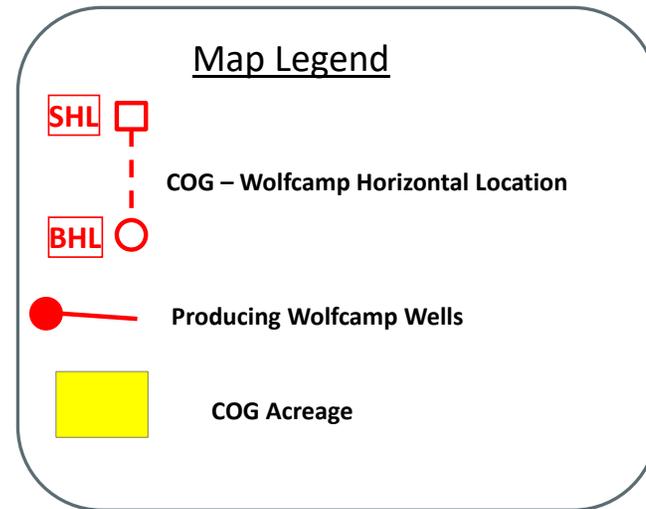
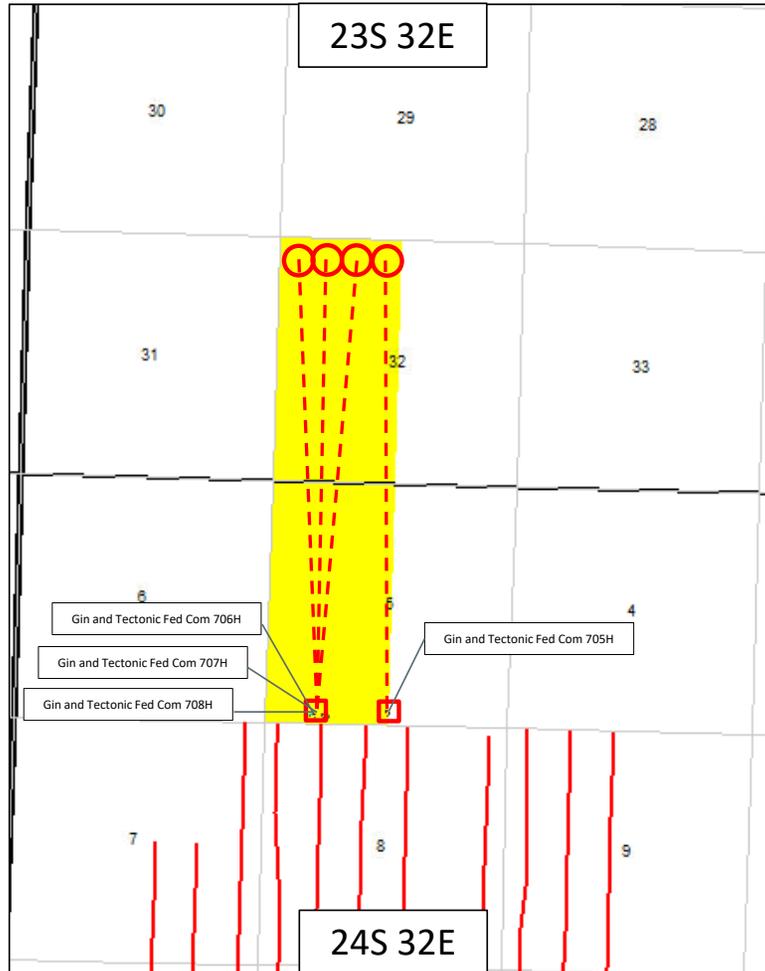
Case No. 22460: Gin & Tectonic Fed Com – Stratigraphic Cross Section A – A'



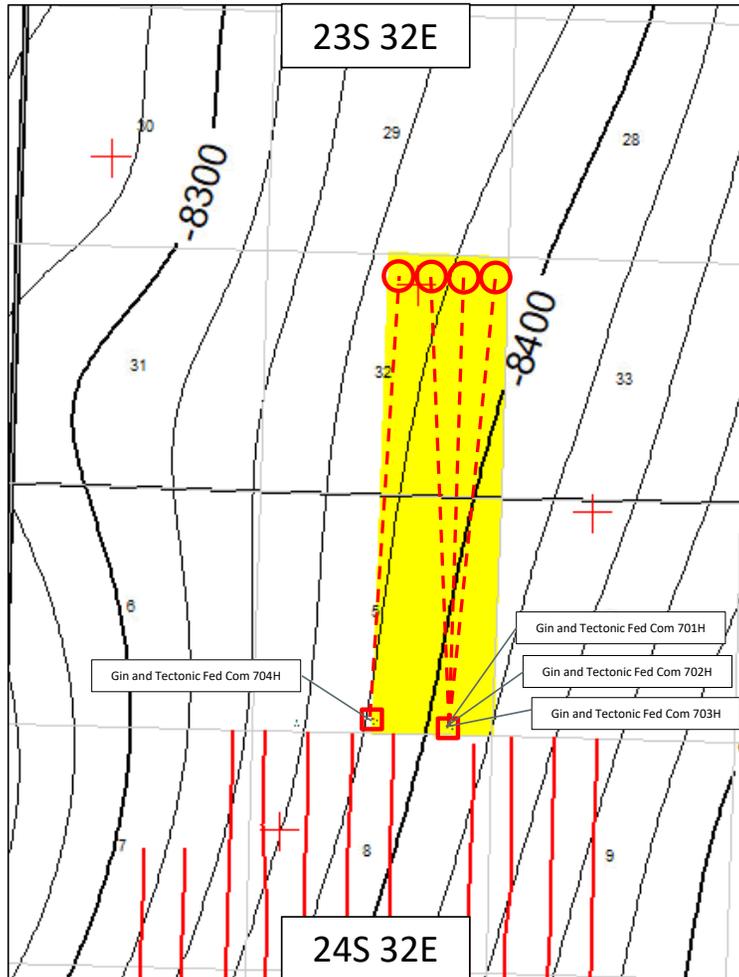
Case No. 22461: Gin & Tectonic Fed Com (E/2 WC) 701H, 702H, 703H, 704H



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



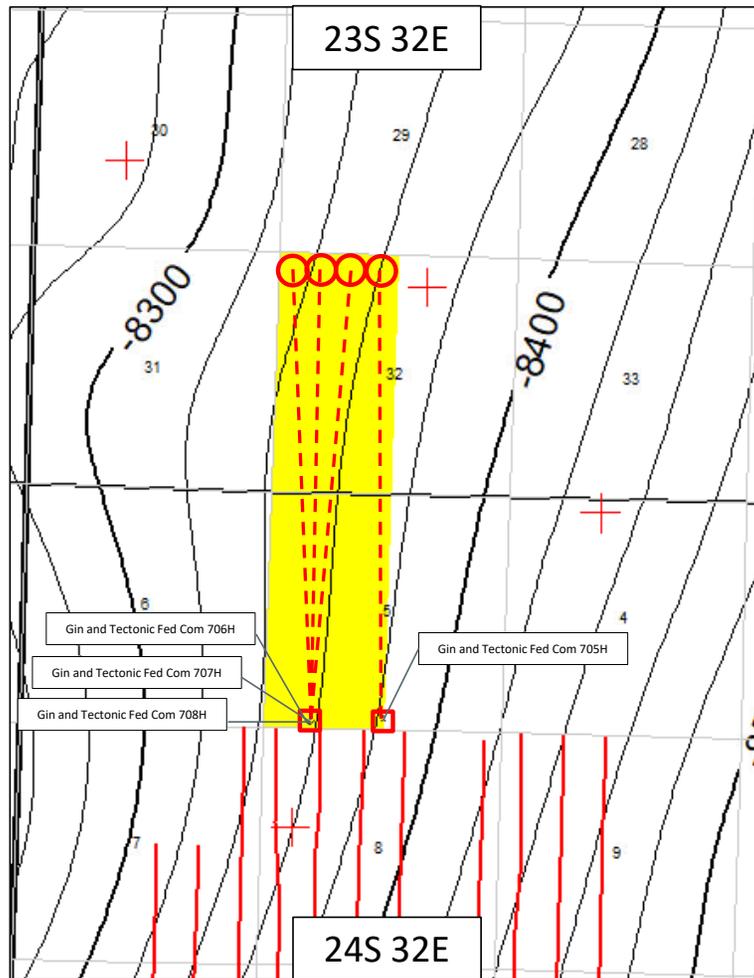
Case No. 22461: Gin & Tectonic Fed Com – Wolfcamp Structure Map



Map Legend

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

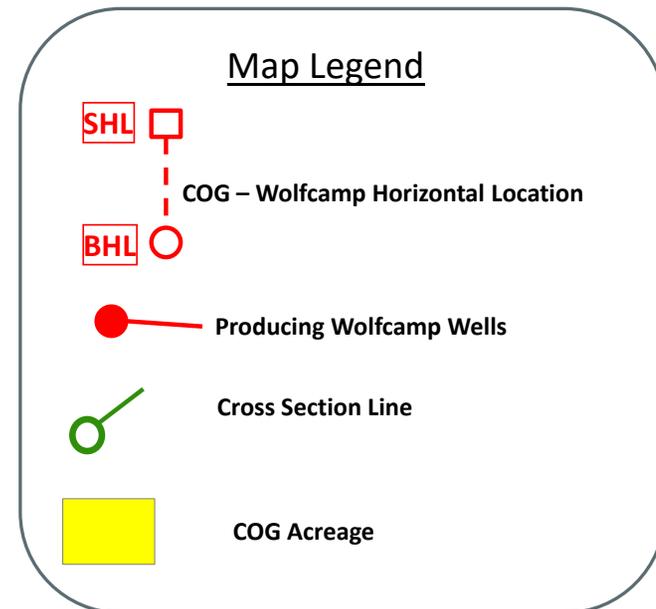
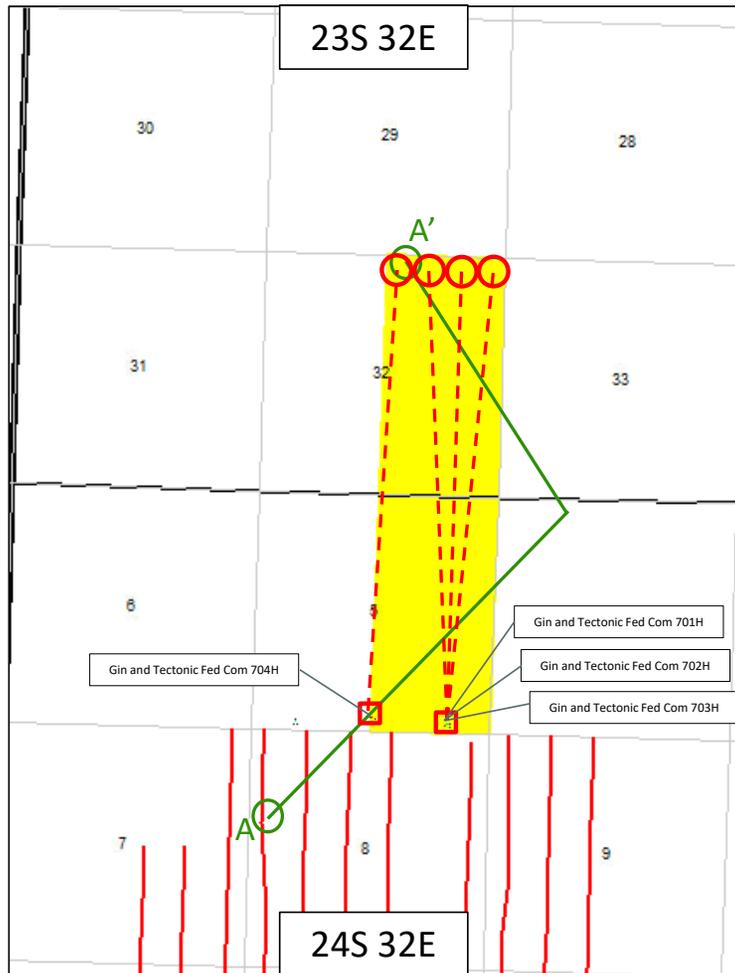
Case No. 22462: Gin & Tectonic Fed Com – Wolfcamp Structure Map



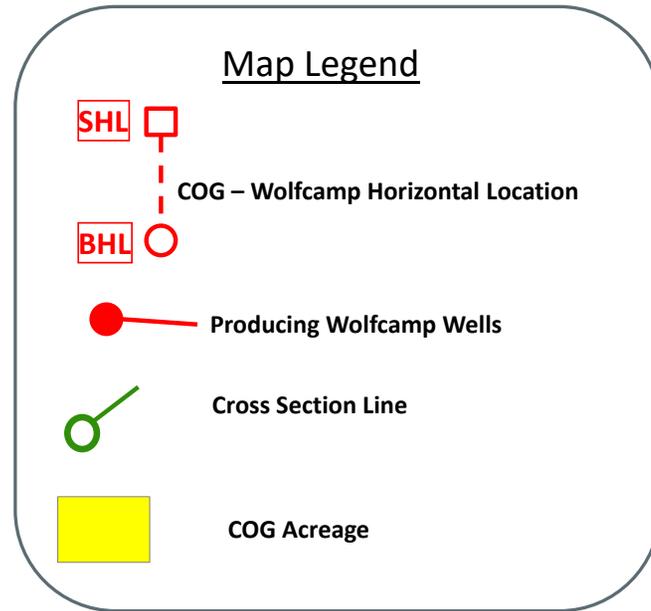
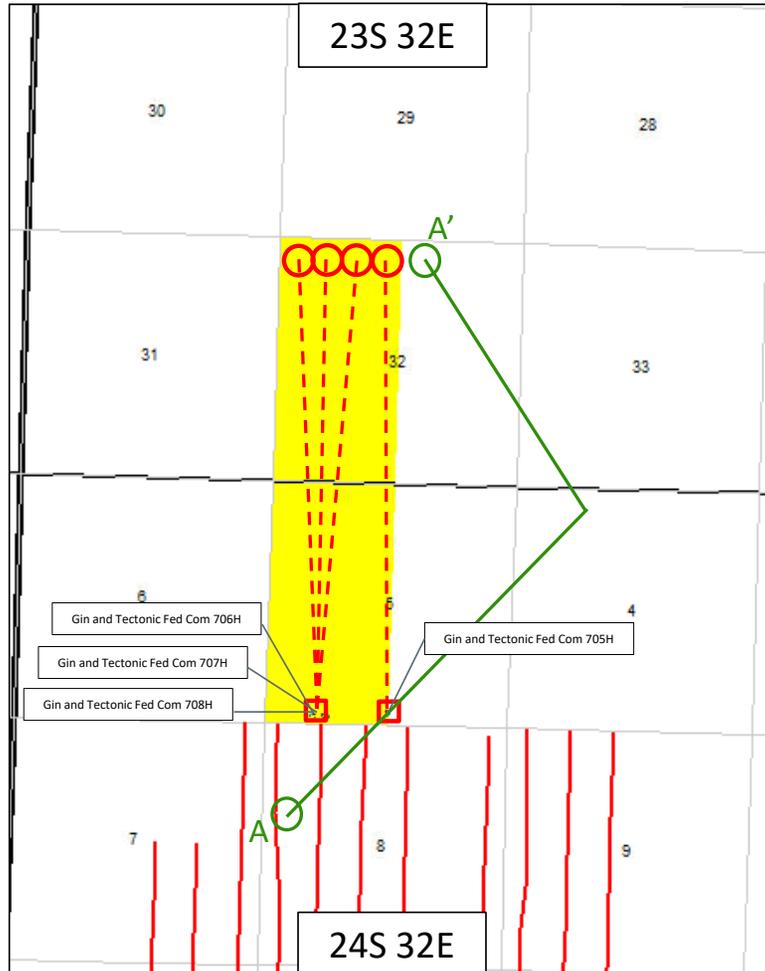
Map Legend

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

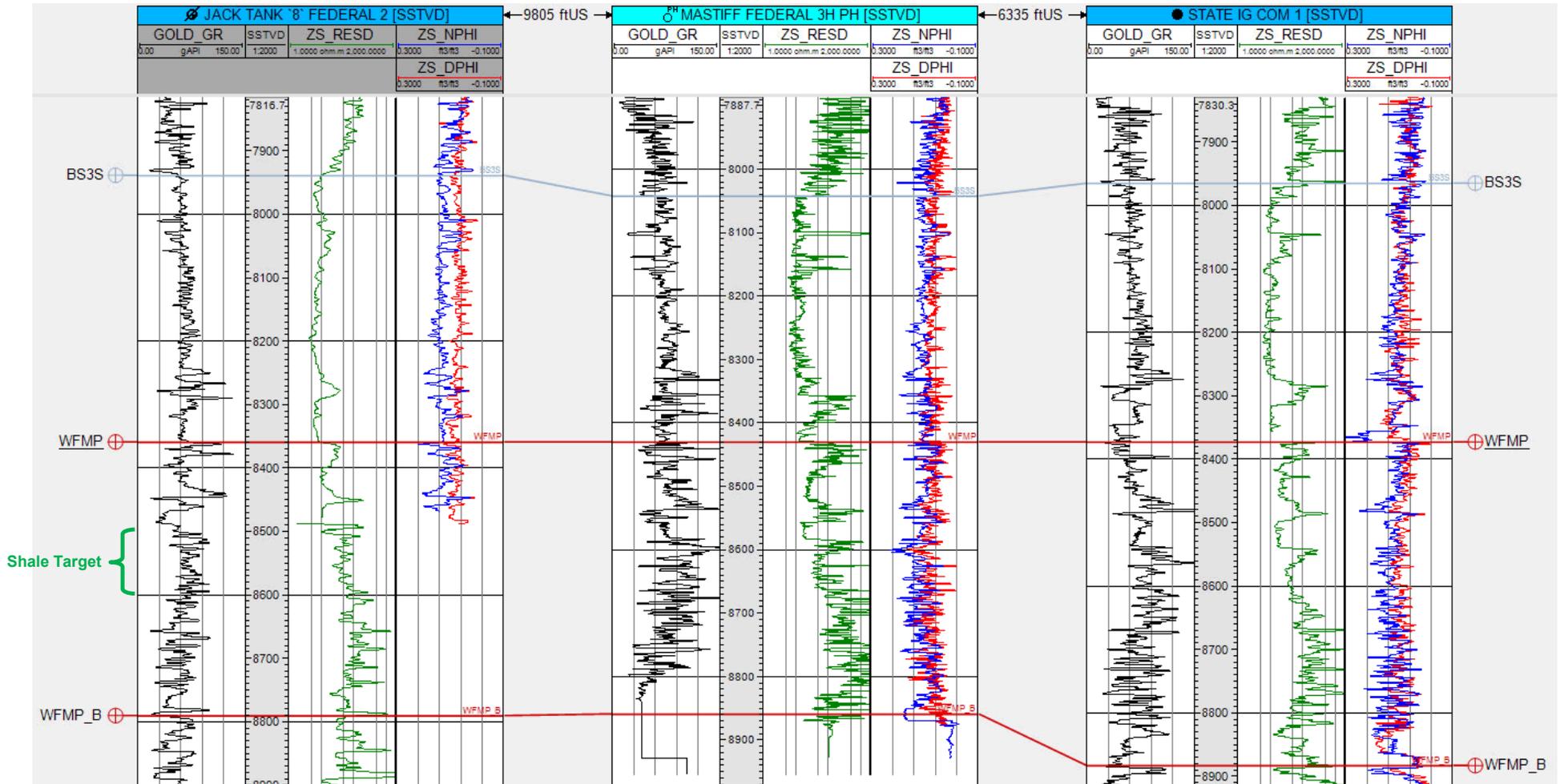
Case No. 22461: Gin & Tectonic Fed Com – Cross Section Map



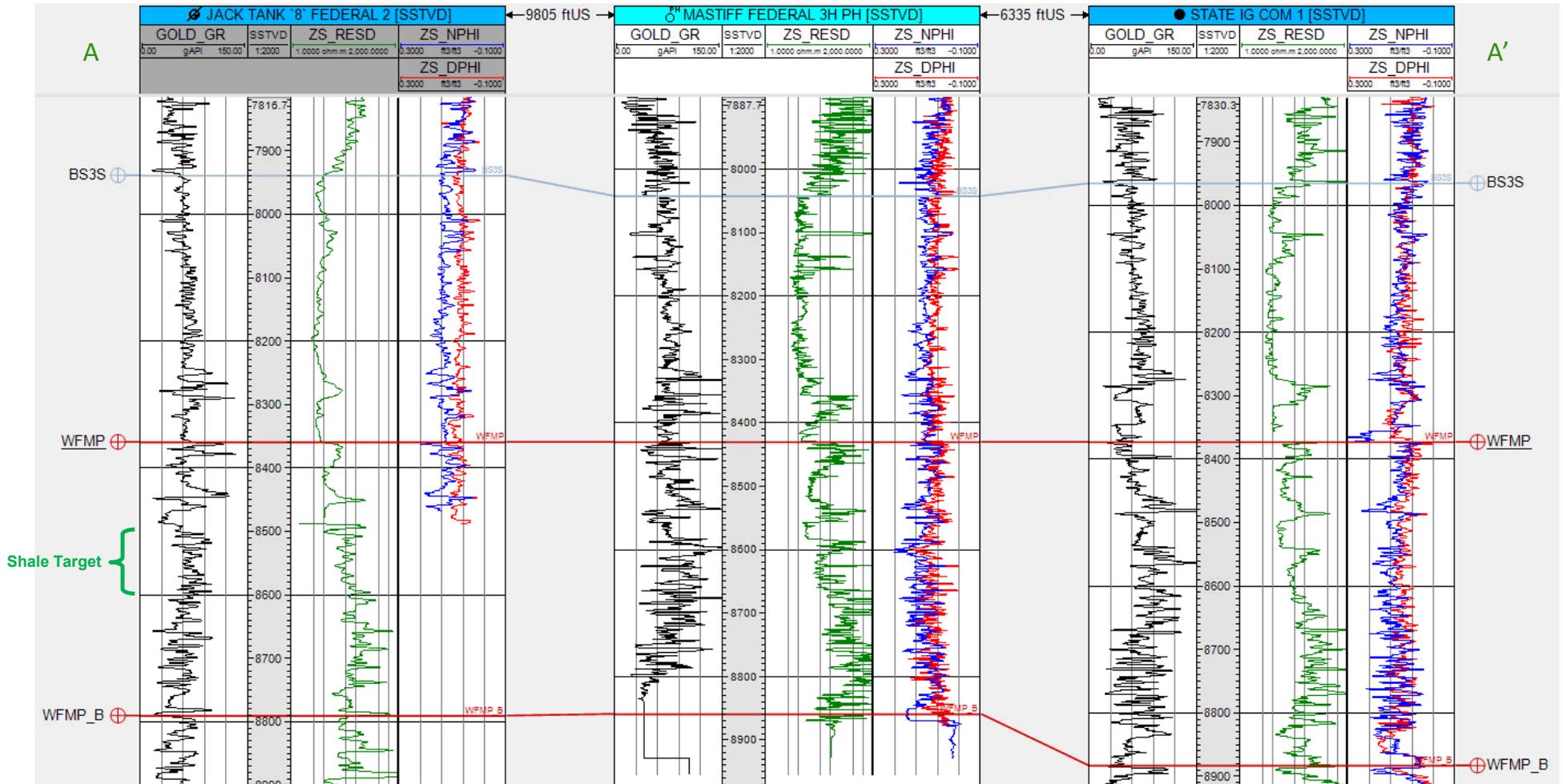
Case No. 22462: Gin & Tectonic Fed Com – Cross Section Map



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.

Sincerely,

A handwritten signature in blue ink, appearing to read 'AG Rankin', is written over a light blue horizontal line.

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.

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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.

Sincerely,

A handwritten signature in blue ink, appearing to be "A.G. Rankin", written over a blue horizontal line.

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.

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.

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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.

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

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



Adam G. Rankin
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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.

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,

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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If you have any questions about this matter, please contact Ryan Curry, at (432) 253-9744 or 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

| | | |
|----------|------------|------------------|
| 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. 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, 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
Access code: 2483 816 0092

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

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)

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

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

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Event number: 2483 816 0092
Event password: mJKbXvy44W2

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Numeric Password: 468428
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Join by audio: 1-844-992-4726 United States Toll Free
Access code: 2483 816 0092

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

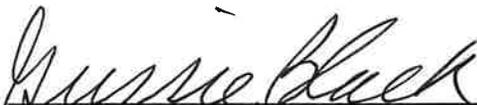
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

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



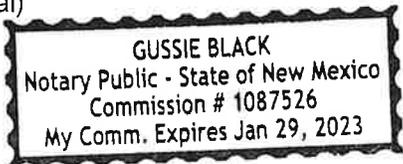
Publisher

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



Business Manager

My commission expires
January 29, 2023
(Seal)



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LEGAL NOTICE
March 20, 2022

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

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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