

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

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

CASE NO. 22716

EXHIBIT INDEX

Compulsory Pooling Checklist for Case No. 22716

Exhibit A	Self-Affirmed Statement of Jeffrey S. Stout
A-1	Application & Proposed Notice of Hearing
A-2	C102s for Wells
A-3	Plat of Tracts, Ownership Interests, Uncommitted Interests to be Pooled
A-4	Sample Well Proposal Letter and AFEs
A-5	Chronology of Contact
Exhibit B	Self-Affirmed Statement of Jessica Pontiff
B-1	Regional Locator Map
B-2	Wolfcamp – Structure Map
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Exhibit C	Self-Affirmed Statement of Dana S. Hardy
C-1	Sample Notice Letter to All Interested Parties and Overriding Royalty Interest Owners
C-2	Chart of Notice to All Interested Parties and Overriding Royalty Interest Owners
C-3	Certified Mail Receipts
C-4	Affidavit of Publication for April 15, 2022

COMPULSORY POOLING APPLICATION CHECKLIST

ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS

Case No.:	22716
Hearing Date:	5/5/2022
Applicant	COG Operating LLC
Designated Operator & OGRID	229137
Applicant's Counsel	Hinkle Shanor LLP
Case Title	Application of COG Operating LLC for Compulsory Pooling, Eddy County, New Mexico
Entries of Appearance/Intervenors	N/A
Well Family	Tomahawk
Formation/Pool	
Formation Name(s) or Vertical Extent	Wolfcamp
Primary Product (Oil or Gas)	Oil
Pooling this vertical extent	Wolfcamp
Pool Name and Pool Code	Purple Sage; Wolfcamp (Gas) 98220
Well Location Setback Rules	Purple Sage; Wolfcamp (Gas) 98220
Spacing Unit Size	640
Spacing Unit	
Type (Horizontal/Vertical)	Horizontal
Size (Acres)	640
Building Blocks	320 acres
Orientation	Laydown
Description: TRS/County	E/2 of Sections 18 and 19, Township 24 South, Range 28 East, Eddy County, New Mexico
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes
Other Situations	
Depth Severance: Y/N. If yes, description	No
Proximity Tracts: If yes, description	No
Proximity Defining Well: if yes, description	N/A
Well(s)	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)	Add wells as needed
Well #1	Tomahawk WC Unit 714H (API # pending) SHL: 500' FNL & 1079' FEL (Unit A) of Section 30, T24S, R28E BHL: 200' FNL & 148' FEL (Unit A) of Section 18, T24S, R28E Completion Target: Wolfcamp A (Approximately 9374' TVD) Completion status: Standard
Well #2	Tomahawk WC Unit 715H (API # pending) SHL: 500' FNL & 1109' FEL (Unit A) of Section 20, T24S, R28E BHL: 200' FNL & 1109' FEL (Unit A) of Section 18, T24S, R28E Completion Target: Wolfcamp A (Approximately 9353' TVD) Completion status: Standard

Well #3	Tomahawk WC Unit 716H (API # pending) SHL: 500' FNL & 1139' FEL (Unit A) of Section 30, T24S, R28E BHL: 200' FNL & 2070' FEL (Unit B) of Section 18, T24S, R28E Completion Target: Wolfcamp A (Approximately 9324' TVD) Completion status: Standard
Horizontal Well First and Last Take Points	Exhibit A-2
Completion Target (Formation, TVD and MD)	Exhibit A-4
AFE Capex and Operating Costs	
Drilling Supervision/Month \$	8,000
Production Supervision/Month \$	800
Justification for Supervision Costs	Exhibit A
Requested Risk Charge	200%
Notice of Hearing	
Proposed Notice of Hearing	Exhibit A-1
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibits C-2, C-3
Proof of Published Notice of Hearing (10 days before hearing)	Exhibit C-4
Ownership Determination	
Land Ownership Schematic of Spacing Unit	Exhibit A-3
Tract List (including lease numbers & owners)	Exhibit A-3
Pooled Parties (including ownership type)	Exhibit A-3
Unlocatable Parties to be Pooled	None
Ownership Depth Severance	N/A
Joinder	
Sample Copy of Proposal Letter	Exhibit A-4
List of Interest Owners (ie Exhibit A of JOA)	Exhibit A-3
Chronology of Contact with Non-Joined Working Interests	Exhibit A-5
Overhead Rates In Proposal Letter	N/A
Cost Estimate to Drill and Complete	Exhibit A-4
Cost Estimate to Equip Well	Exhibit A-4
Cost Estimate for Production Facilities	Exhibit A-4
Geology	
Summary (including special considerations)	Exhibit B
Spacing Unit Schematic	Exhibit B-1
Gunbarrel/Lateral Trajectory Schematic	Exhibit B-1
Well Orientation (with rationale)	Exhibit B
Target Formation	Exhibit B
HSU Cross Section	Exhibit B-3
Depth Severance Discussion	N/A
Forms, Figures and Tables	
C-102	Exhibit A-2
Tracts	Exhibit A-3
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit A-3
General Location Map (including basin)	Exhibit B-1
Well Bore Location Map	Exhibit B-1
Structure Contour Map - Subsea Depth	Exhibit B-2
Cross Section Location Map (including wells)	Exhibit B-2
Cross Section (including Landing Zone)	Exhibit B-3
Additional Information	

CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.	
Printed Name (Attorney or Party Representative):	Dana S. Hardy
Signed Name (Attorney or Party Representative):	/s/ Dana S. Hardy
Date:	5/3/2022

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

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

CASE NO. 22716

SELF-AFFIRMED STATEMENT
OF JEFFREY S. STOUT

1. I am a landman at COG Operating LLC (“COG”) and am over 18 years of age. I have personal knowledge of the matters addressed herein and am competent to provide this Self-Affirmed Statement. I have previously testified before the New Mexico Oil Conservation Division (“Division”) and my credentials as a petroleum land professional have been accepted and made a matter of record.

2. I am familiar with the land matters involved in the above-referenced case. Copies of COG’s application and proposed hearing notice are attached as **Exhibit A-1**.

3. None of the parties proposed to be pooled in this case indicated opposition to this matter proceeding by affidavit, therefore I do not expect any opposition at hearing.

4. COG seeks an order pooling all uncommitted interests in the Purple Sage; Wolfcamp (Gas) (pool code 98220) within the Wolfcamp formation underlying a 640-acre, more or less, standard horizontal spacing unit comprised of the E/2 of Sections 18 and 19, Township 24 South, Range 28 East, Eddy County, New Mexico (“Unit”).

5. The Unit will be dedicated to the following wells (“Wells”):

- a. **Tomahawk WC Unit 714H** and **Tomahawk WC Unit 715H** to be horizontally drilled from surface hole locations in the NE/4 NE/4 (Unit A) of Section 30 to bottom hole locations in the NE/4 NE/4 (Unit A) of Sections 18; and

- b. **Tomahawk WC Unit 716H** to be horizontally drilled from a surface hole location in the NE/4 NE/4 (Unit A) of Section 30 to a bottom hole location in the NW/4 NE/4 (Unit B) of Section 18.
6. The completed interval of the Tomahawk WC Unit 714H will be unorthodox. The completed intervals of the remaining Wells will be orthodox.
7. **Exhibit A-2** contains the C-102 for the Wells.
8. **Exhibit A-3** contains a plat identifying ownership by tract in the Unit. This exhibit also includes any applicable lease numbers, a unit recapitulation, and the interests COG seeks to pool.
9. **Exhibit A-4** contains a sample well proposal letter and AFEs sent to working interest owners for the Well. The estimated costs reflected on the AFE are fair and reasonable and comparable to the cost of other wells of similar depth and length drilled in the subject formation in the area.
10. COG has conducted a diligent search of all county public records including phone directories and computer databases.
11. All interest owners COG seeks to pool are locatable.
12. In my opinion, COG made a good-faith effort to reach voluntary joinder of uncommitted interests in the Well as indicated by the chronology of contact described in **Exhibit A-5**.
13. COG requests overhead and administrative rates of \$8,000 per month while the Well is being drilled and \$800 per month while the Well is producing. These rates are fair and are comparable to the rates charged by COG and other operators in the vicinity.

14. The attached exhibits attached were either prepared by me or under my supervision or were compiled from company business records.

15. In my opinion, the granting of COG's application would serve the interests of conservation, the protection of correlative rights, and the prevention of waste.

16. I understand this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony in paragraphs 1 through 15 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.



Jeffrey S. Stout

4/20/2022
Date

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

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

CASE NO. 22716

APPLICATION

Pursuant to NMSA § 70-2-17, COG Operating LLC (“Applicant”) (OGRID No. 229137) applies for an order pooling all uncommitted interests within the Wolfcamp formation underlying a 640-acre, more or less, standard horizontal spacing unit comprised of the E/2 of Sections 18 and 19, Township 24 South, Range 28 East, Eddy County, New Mexico (“Unit”). In support of its application, Applicant states:

1. Applicant is a working interest owner in the Unit and has the right to drill wells thereon.
2. The Unit will be dedicated to the following wells (“Wells”):
 - a. **Tomahawk WC Unit 714H** and **Tomahawk WC Unit 715H** to be horizontally drilled from surface hole locations in the NE/4NE/4 (Unit A) of Section 30 to bottom hole locations in the NE/4NE/4 (Unit A) of Section 18, and
 - b. **Tomahawk WC Unit 716H** to be horizontally drilled from a surface hole location in the NE/4NE/4 (Unit A) of Section 30 to a bottom hole location in the NW/4NE/4 (Unit B) of Section 18.
3. The completed interval of the Tomahawk WC Unit 714H will be unorthodox. The completed intervals of the remaining Wells will be orthodox.

COG Operating, LLC
Case No. 22716
Exhibit A-1

4. Applicant has undertaken diligent, good-faith efforts to obtain voluntary agreements from all interest owners to participate in the drilling of the Wells but has been unable to obtain voluntary agreements from all interest owners.

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

6. In order to allow Applicant to obtain its just and fair share of the oil and gas underlying the subject lands, all uncommitted mineral interests in the Unit should be pooled and Applicant should be designated the operator of the Wells and Unit.

WHEREFORE, Applicant requests this application be set for hearing on May 5, 2022, and that after notice and hearing, the Division enter an order:

- A. Pooling all uncommitted interests in the Unit;
- B. Approving the Wells in the Unit;
- C. Designating Applicant as operator of the Unit and the 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 while drilling and after completion, together with a provision adjusting the rates pursuant to the COPAS accounting procedures; and
- F. Imposing a 200% penalty for the risk assumed by 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,

HINKLE SHANOR LLP

/s/ Dana S. Hardy

Dana S. Hardy
Jaclyn McLean
P.O. Box 2068
Santa Fe, NM 87504-2068
Phone: (505) 982-4554
dhardy@hinklelawfirm.com
jmclean@hinklelawfirm.com
Counsel for COG Operating LLC

Application of COG Operating LLC for Compulsory Pooling, Eddy County, New Mexico.

Applicant applies for an order pooling all uncommitted interests within the Wolfcamp formation underlying a 640-acre, more or less, standard horizontal spacing unit comprised of the E/2 of Sections 18 and 19, Township 24 South, Range 28 East, Eddy County, New Mexico ("Unit"). The Unit will be dedicated to the following wells ("Wells"): Tomahawk WC Unit 714H and Tomahawk WC Unit 715H to be horizontally drilled from surface hole locations in the NE/4NE/4 (Unit A) of Section 30 to bottom hole locations in the NE/4NE/4 (Unit A) of Section 18, and Tomahawk WC Unit 716H to be horizontally drilled from a surface hole location in the NE/4NE/4 (Unit A) of Section 30 to a bottom hole location in the NW/4NE/4 (Unit B) of Section 18. The completed interval of the Tomahawk WC Unit 714H will be unorthodox. The completed intervals of the remaining Wells will be orthodox. Also, to be considered will be the cost of drilling and completing the Wells and the allocation of the costs, the designation of Applicant as the operator of the Wells, and a 200% charge for the risk involved in drilling and completing the Wells. The Wells are located approximately 2.75 miles west of Malaga, New Mexico.

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (576) 393-6181 Fax: (576) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (576) 748-1283 Fax: (576) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-8178 Fax: (505) 334-8170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

X AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-47500	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 328919	Property Name 330184 TOMAHAWK WC UNIT	Well Number 714H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3071.6'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	30	24-S	28-E		500	NORTH	1079	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	18	24-S	28-E		200	NORTH	148	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
640			

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=445476.0 N
X=607688.8 E
LAT.=32.224508" N
LONG.=104.118764" W

POINT LEGEND	
1	Y=445680.9 N X=805188.3 E
2	Y=440380.7 N X=805185.4 E
3	Y=435055.3 N X=805209.0 E
4	Y=435099.2 N X=807880.7 E
5	Y=437746.7 N X=807882.4 E
6	Y=440391.8 N X=807847.2 E
7	Y=443034.4 N X=807841.8 E
8	Y=445878.9 N X=807838.4 E

NAD 83 NME SURFACE LOCATION
Y=434581.3 N
X=606802.4 E
LAT.=32.194564" N
LONG.=104.121700" 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.

Stan Wagner 11/3/20
Signature Date

Stan Wagner
Printed Name

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.

FEBRUARY 13, 2020
Date of Survey

Signature & Seal of Professional Surveyor

Chad Harcrow 2/20/20
Certificate No. CHAD HARCROW 17777
W.O. # 20-1110R DRAWN BY: WN

COG Operating, LLC
Case No. 22716
Exhibit A-2

DISTRICT I
1825 N. FRENCH DR., HOBBS, NM 88240
Phone: (576) 393-6181 Fax: (576) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (576) 748-1283 Fax: (575) 748-9720

DISTRICT III
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Phone: (505) 334-8178 Fax: (505) 334-6170

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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-47501	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 338919X 330184	Property Name TOMAHAWK WC UNIT	Well Number 715H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3071.8'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	30	24-S	28-E		500	NORTH	1109	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	18	24-S	28-E		200	NORTH	1109	EAST	EDDY

Dedicated Acres 640	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

POINT LEGEND

1	Y=445660.0 N	X=605168.3 E
2	Y=440360.7 N	X=605185.4 E
3	Y=435055.3 N	X=605209.8 E
4	Y=435099.2 N	X=607880.7 E
5	Y=437745.7 N	X=607862.4 E
6	Y=440391.8 N	X=607847.2 E
7	Y=443034.4 N	X=607841.6 E
8	Y=445676.9 N	X=607838.4 E

PROPOSED BOTTOM HOLE LOCATION
Y=445470.3 N
X=606727.8 E
LAT.=32.224497° N
LONG.=104.121872° W

SURFACE LOCATION
Y=434580.9 N
X=606772.3 E
LAT.=32.194563° N
LONG.=104.121797° 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.

Stan Wagner 11/3/2020
Signature Date
Stan Wagner
Printed Name

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.

FEBRUARY 13, 2020
Date of Survey

Chad Harcrow 2/20/20
Signature & Seal of Professional Surveyor
Certificate No. CHAD HARCROW 17777
W.O. # 20-1110Q DRAWN BY: WN

DISTRICT I
1825 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-9720

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811 S. FIRST ST., ARTESIA, NM 88210
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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-47502	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 328919	Property Name 330184 TOMAHAWK WC UNIT	Well Number 716H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3072.1'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	30	24-S	28-E		500	NORTH	1139	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	18	24-S	28-E		200	NORTH	2070	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
640			

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POINT LEGEND

1	Y=445660.9 N	X=605188.3 E
2	Y=440380.7 N	X=605185.4 E
3	Y=435055.3 N	X=605209.0 E
4	Y=435089.2 N	X=607880.7 E
5	Y=437745.7 N	X=607862.4 E
6	Y=440391.0 N	X=607847.2 E
7	Y=443034.4 N	X=607841.8 E
8	Y=445878.9 N	X=607836.4 E

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.
Stan Wagner 11/3/2020
Signature Date
Printed Name
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.
FEBRUARY 13, 2020
Date of Survey
Signature & Seal of Professional Surveyor
CHAD L. HARCROW
NEW MEXICO
LICENSED PROFESSIONAL SURVEYOR
17777
Chad Harcrow 2/20/20
Certificate No. CHAD HARCROW 17777
W.O. # 20-1110P DRAWN BY: WN

NAD 83 NME PROPOSED BOTTOM HOLE LOCATION
Y=445464.5 N
X=605766.8 E
LAT.=32.224486° N
LONG.=104.124980° W

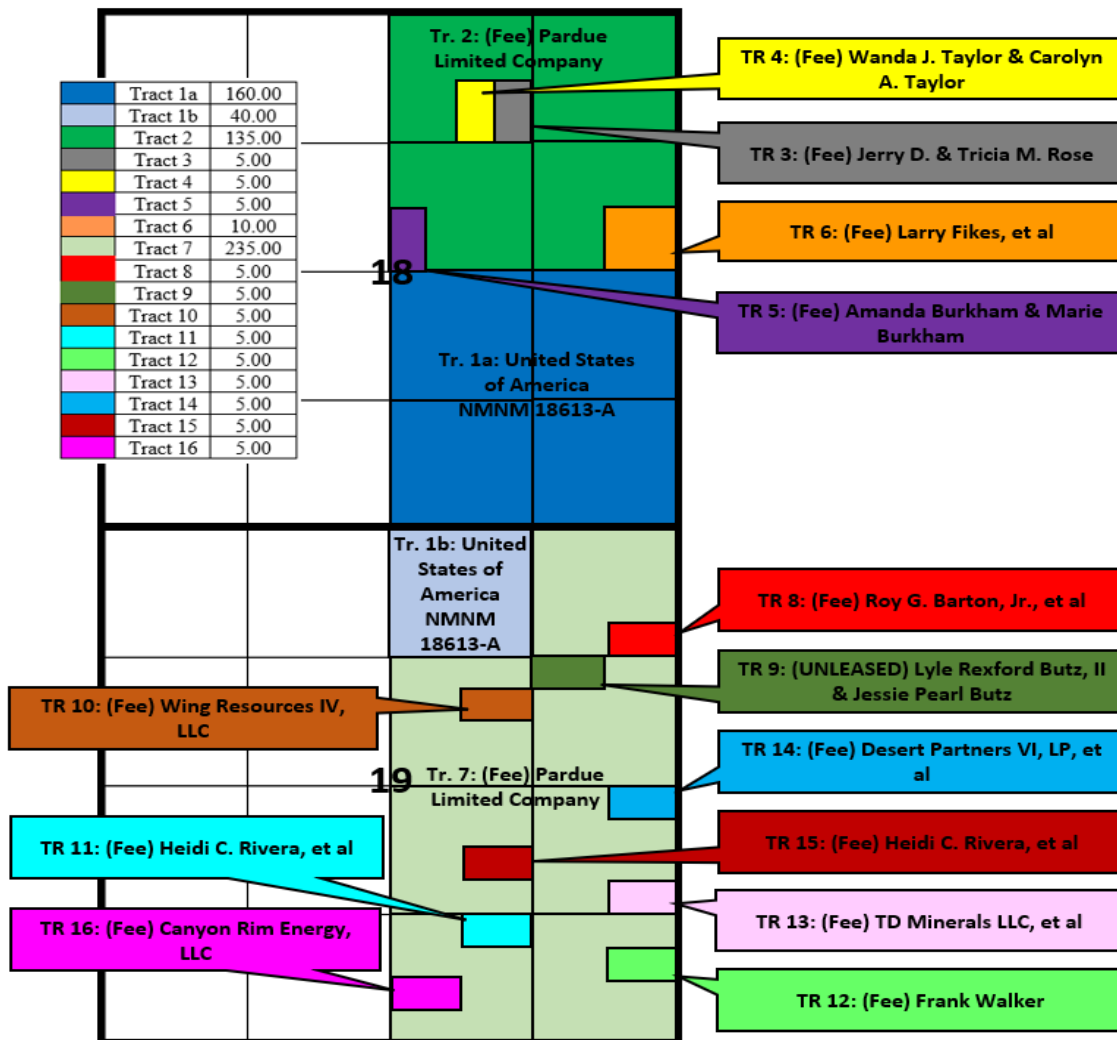
LEASE X-ING
LAT.=32.217756° N
LONG.=104.124962° W

LEASE X-ING
LAT.=32.206831° N
LONG.=104.124932° W

LEASE X-ING
LAT.=32.195900° N
LONG.=104.124844° W

NAD 83 NME SURFACE LOCATION
Y=434580.4 N
X=606742.3 E
LAT.=32.194562° N
LONG.=104.121894° W

TOMAHAWK WC UNIT #714H, #715H, & #716H - E/2 SECTIONS 18 & 19, T24S-R28E, EDDY COUNTY, NEW MEXICO



Tomahawk WC Unit 714H, 715H, 716H
E/2 of Sections 18 & 19 of T24S-R28E

East Half of Sections 18 & 19 - Tract Leasehold Ownership																
	Tract 1	Tract 2	Tract 3	Tract 4	Tract 5	Tract 6	Tract 7	Tract 8	Tract 9	Tract 10	Tract 11	Tract 12	Tract 13	Tract 14	Tract 15	Tract 16
COG	97.964039%	97.96%	97.96%	97.96%		97.96%	97.96%	97.96%	97.96%	97.96%	97.96%	97.96%	97.96%	97.96%	97.96%	97.96%
CONCHO	0.292039%	0.292039%	0.292039%	0.292039%		0.292039%	0.292039%	0.292039%	0.292039%	0.292039%	0.292039%	0.292039%	0.292039%	0.292039%	0.292039%	0.292039%
FEATHERSTONE	0.100704%	0.100704%	0.100704%	0.100704%		0.100704%	0.100704%	0.100704%	0.100704%	0.100704%	0.100704%	0.100704%	0.100704%	0.100704%	0.100704%	0.100704%
BIG THREE	0.100704%	0.100704%	0.100704%	0.100704%		0.100704%	0.100704%	0.100704%	0.100704%	0.100704%	0.100704%	0.100704%	0.100704%	0.100704%	0.100704%	0.100704%
PARROT HEAD	0.134271%	0.134271%	0.134271%	0.134271%		0.134271%	0.134271%	0.134271%	0.134271%	0.134271%	0.134271%	0.134271%	0.134271%	0.134271%	0.134271%	0.134271%
NORTHERN OIL & GAS	0.833653%	0.833653%	0.833653%	0.833653%		0.833653%	0.833653%	0.833653%	0.833653%	0.833653%	0.833653%	0.833653%	0.833653%	0.833653%	0.833653%	0.833653%
PROSPECTOR	0.402813%	0.402813%	0.402813%	0.402813%		0.402813%	0.402813%	0.402813%	0.402813%	0.402813%	0.402813%	0.402813%	0.402813%	0.402813%	0.402813%	0.402813%
BRETT BARTON	0.051560%	0.051560%	0.051560%	0.051560%		0.051560%	0.051560%	0.051560%	0.051560%	0.051560%	0.051560%	0.051560%	0.051560%	0.051560%	0.051560%	0.051560%
HEIDI RIVERA	0.051560%	0.051560%	0.051560%	0.051560%		0.051560%	0.051560%	0.051560%	0.051560%	0.051560%	0.051560%	0.051560%	0.051560%	0.051560%	0.051560%	0.051560%
ROY BARTON JR	0.025645%	0.025645%	0.025645%	0.025645%		0.025645%	0.025645%	0.025645%	0.025645%	0.025645%	0.025645%	0.025645%	0.025645%	0.025645%	0.025645%	0.025645%
NORMA CHANLEY	0.025645%	0.025645%	0.025645%	0.025645%		0.025645%	0.025645%	0.025645%	0.025645%	0.025645%	0.025645%	0.025645%	0.025645%	0.025645%	0.025645%	0.025645%
ROY BARTON III	0.017368%	0.017368%	0.017368%	0.017368%		0.017368%	0.017368%	0.017368%	0.017368%	0.017368%	0.017368%	0.017368%	0.017368%	0.017368%	0.017368%	0.017368%
LYLE R. BUTZ II & JESSIE PEARL BUTZ					100%											

TOMAHAWK WC UNIT - SEC 18 & 19 SPACING UNIT WI RECAPITULATION	
OWNER	WORKING INTEREST
COG OPERATING LLC*	97.453384%
CONCHO OIL & GASS LLC*	0.290517%
FEATHERSTONE DEVELOPMENT CORP*	0.100179%
BIG THREE ENERGY GROUP*	0.100178%
PARROT HEAD PROPERTIES LLC*	0.133571%
NORTHERN OIL AND GAS, INC.*	0.829307%
PROSPECTOR LLC*	0.400713%
BRETT C. BARTON*	0.051292%
HEIDI C. RIVERA*	0.051292%
ROY BARTON JR*	0.025511%
NORMA CHANLEY*	0.025511%
ROY BARTON III*	0.017277%
LYLE R. BUTZ II & JESSIE PEARL BUTZ	0.521268%
	100.000000%

TOMAHAWK WC UNIT SECTION 18 & 19 SPACING UNIT PARTIES TO POOL	
LYLE R. BUTZ II & JESSIE PEARL BUTZ (UNLEASED MINERAL OWNER) Tract 5	
SAP, LLC (OVERRIDING ROYALTY INTEREST OWNER) Tracts 1a & 1b	

*Working Interest Parties Committed to the Tomahawk WC Unit Agreement and Operating Agreement



February 28, 2022

Via CMRRR No. 91 7199 9991 7038 7772 3477
Jessie Pearl Butz, OR Heir(s) of Jessie Pearl Butz,
OR Personal Representative(s) of the Estate of Jessie Pearl Butz
6565 Clearwater Drive
Loveland, CO 80538-7037

Re: **Tomahawk Fed Unit 714H, 715H, 716H**
East-Half (E/2) of Sections 18 & 19, T24S-R28E
Eddy County, New Mexico

Dear Sir or Madam:

COG Operating, LLC ("COG"), as Operator, hereby proposes the drilling of the following horizontal wells with productive laterals located in East-Half (E/2) of Sections 18 & 19, Township 24 South, Range 28 East, Eddy County, New Mexico (collectively, the "Operation"). The surface pad locations will be located in Unit A of Section 30, T24S-R28E (subject to change).

- **Tomahawk WC Unit 714H**, to be drilled to a depth sufficient to test the Wolfcamp A formation at an approximate total vertical depth of 9,374'. The surface location for this well is proposed at a legal location in Unit A of Section 30, and a bottom hole location at a legal location in Unit A of Section 18. The dedicated horizontal spacing unit will be the East-Half (E/2) of Sections 18 & 19, T24S-R28E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$9,131,000.00, as shown on the attached Authority for Expenditure ("AFE").
- **Tomahawk WC Unit 715H**, to be drilled to a depth sufficient to test the Wolfcamp A formation at an approximate total vertical depth of 9,353'. The surface location for this well is proposed at a legal location in Unit A of Section 30, and a bottom hole location at a legal location in Unit A of Section 18. The dedicated horizontal spacing unit will be the East-Half (E/2) of Sections 18 & 19, T24S-R28E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$9,131,000.00, as shown on the attached AFE.
- **Tomahawk WC Unit 716H**, to be drilled to a depth sufficient to test the Wolfcamp A formation at an approximate total vertical depth of 9,324'. The surface location for this well is proposed at a legal location in Unit A of Section 30, and a bottom hole location at a legal location in Unit B of Section 18. The dedicated horizontal spacing unit will be the East-Half (E/2) of Sections 18 & 19, T24S-R28E, Eddy County, New Mexico. The total estimated cost to drill and complete said well is \$9,131,000.00, as shown on the attached AFE.

COG Operating, LLC
Case No. 22716
Exhibit A-4

February 28, 2022– Page 2
Tomahawk WC Unit 714H – 716H

COG is proposing to drill these Federal Exploratory Unit Wells under the terms of the previously provided Tomahawk WC Unit Agreement and Tomahawk Joint Operating Agreement, which I have enclosed for your review. If you wish to participate in any current or future wells under the Tomahawk Federal Exploratory Unit Agreement, it will be necessary for you to execute said Unit Agreement and Operating Agreement. Also enclosed is a Federal Communitization Agreement for your signature as a Working Interest Owner OR Unleased Mineral Owner in this spacing unit.

Should you wish not to participate in this operation and would rather enter into an oil and gas lease as previously offered, please contact the undersigned.

Please indicate your participation elections in the space provided below, sign and return this letter, along with a signed copy of the enclosed AFEs and a copy of your geologic requirements, to my attention at the letterhead address or by email to jeff.s.stout@conocophillips.com. If you wish to further discuss the options of leasing or selling your minerals, please do not hesitate to contact me at 432.818.1372.

Sincerely,

COG Operating LLC



Jeffrey S. Stout
Staff Land Negotiator

JSS:bh
Enc

February 28, 2022– Page 3
 Tomahawk Fed Unit 714H – 716H

Please mark your elections below and execute where indicated:

WELL NAME	Election to PARTICIPATE in drilling & completion of well, and PARTICIPATE in the Tomahawk Fed Exploratory Unit Agreement*	Election NOT TO PARTICIPATE in drilling & completion of well, but PARTICIPATE in the Tomahawk Fed Exploratory Unit Agreement*	Election NOT TO PARTICIPATE in drilling & completion of well, and NOT TO PARTICIPATE in the Tomahawk Fed Exploratory Unit Agreement*
Tomahawk WC Unit 714H			
Tomahawk WC Unit 715H			
Tomahawk WC Unit 716H			

* If you wish to participate in any current or future wells under the Tomahawk Federal Exploratory Unit Agreement, it will be necessary for you to execute said Unit Agreement.

JESSIE PEARL BUTZ

-- OR --

HEIR(S) OF JESSIE PEARL BUTZ

 Name: _____

-- OR --

PERSONAL REPRESENTATIVE(S) OF THE ESTATE OF JESSIE PEARL BUTZ

 Name: _____

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

Well Name TOMAHAWK FED UNIT 714H
SHL A-30-245 28E
BHL A-18-245 28E
Formation WOLFCAAMP
Legal E2 18 & 19, T245-R28E
AFE Numbers

Prospect TOMAHAWK 2428
State & County HEW MEXICO, EDDY
Objective DRILL & COMPLETE
TVD 9,374

Cost Description	Code	PreSpud (PS)	Pre-Set Casings (PC)	Drilling (DR)	Completions (C)	Tank Btty Constructn (TB)	Prmpq Equip (PEQ)	Revision	Total
Intangible Costs									
D-Levy/Pits/Roads	205			\$ 91,000.00				\$ -	\$ 91,000.00
D-Drilling Overhead	206			\$ 7,000.00				\$ -	\$ 7,000.00
D-Daywork Contract	209			\$ 496,000.00				\$ -	\$ 496,000.00
D-Directional Drng Services	210			\$ 265,000.00				\$ -	\$ 265,000.00
D-Fuel & Power	211			\$ 86,000.00				\$ -	\$ 86,000.00
D-Water	212			\$ 72,000.00				\$ -	\$ 72,000.00
D-Bits	213			\$ 91,000.00				\$ -	\$ 91,000.00
D-Mud & Chemicals	214			\$ 187,000.00				\$ -	\$ 187,000.00
D-Cement Surface	217			\$ 19,000.00				\$ -	\$ 19,000.00
D-Cement Intermed	218			\$ 72,000.00				\$ -	\$ 72,000.00
D-Prod 2nd Int Cmt	219			\$ 106,000.00				\$ -	\$ 106,000.00
D-Float Equipment & Centrifzrs	221			\$ 58,000.00				\$ -	\$ 58,000.00
D-Csg Crews & Equip	222			\$ 63,000.00				\$ -	\$ 63,000.00
D-Contract Labor	225			\$ 7,000.00				\$ -	\$ 7,000.00
D-Company Spvsn	226			\$ 42,000.00				\$ -	\$ 42,000.00
D-Contract Spvsn	227			\$ 104,000.00				\$ -	\$ 104,000.00
D-Tslg Csg/Tbg	228			\$ 39,000.00				\$ -	\$ 39,000.00
D-Mud Logging Unit	229			\$ 39,000.00				\$ -	\$ 39,000.00
D-Rentals Surface	235			\$ 161,000.00				\$ -	\$ 161,000.00
D-Rentals-Subsfc	236			\$ 75,000.00				\$ -	\$ 75,000.00
D-Trucking/Forkfltr/Rig Mob	237			\$ 154,000.00				\$ -	\$ 154,000.00
D-Welding Services	238			\$ 3,000.00				\$ -	\$ 3,000.00
D-Contingency	243			\$ 58,000.00				\$ -	\$ 58,000.00
D-Erromntl/Clsd Loop	244			\$ 253,000.00				\$ -	\$ 253,000.00
C-Wellbore Frac Prep	304				\$ 127,000.00			\$ -	\$ 127,000.00
C-LctrvPits/Roads	305				\$ 14,000.00			\$ -	\$ 14,000.00
C-Completion OH	306				\$ 20,000.00			\$ -	\$ 20,000.00
C-Frac Equipment	307				\$ 865,000.00			\$ -	\$ 865,000.00
C-Frac Chemicals	308				\$ 548,000.00			\$ -	\$ 548,000.00
C-Frac Proppant	309				\$ 249,000.00			\$ -	\$ 249,000.00
C-Frac Proppant Transportation	310				\$ 387,000.00			\$ -	\$ 387,000.00
C-Fuel Delivery & Services	311				\$ 56,000.00			\$ -	\$ 56,000.00
C-Water	312				\$ 366,000.00			\$ -	\$ 366,000.00
C-Frac Surface Rentals	315				\$ 345,000.00			\$ -	\$ 345,000.00
C-Contract Labor	325				\$ 14,000.00			\$ -	\$ 14,000.00
C-Company Spvsn	326				\$ 14,000.00			\$ -	\$ 14,000.00
C-Contract Spvsn	327				\$ 184,000.00			\$ -	\$ 184,000.00
C-Artificial Lift Instalt	329				\$ 60,000.00			\$ -	\$ 60,000.00
C-Perf/Wireline Svc	331				\$ 425,000.00			\$ -	\$ 425,000.00
C-Trucking/Forkfltr/Rig Mob	337				\$ 14,000.00			\$ -	\$ 14,000.00
C-Water Disposal	339				\$ 53,000.00			\$ -	\$ 53,000.00
C-Contingency	343				\$ 99,000.00			\$ -	\$ 99,000.00
C-Dyed Diesel	345				\$ 207,000.00			\$ -	\$ 207,000.00
C-Drillout	346				\$ 395,000.00			\$ -	\$ 395,000.00
TB-Damages/Right of Way	351					\$ 2,000.00		\$ -	\$ 2,000.00
TB-Location/Pits/Roads	353					\$ 40,000.00		\$ -	\$ 40,000.00
TB-Contract Labor	356					\$ 216,000.00		\$ -	\$ 216,000.00
PEQ-Contract Labor	374						\$ 18,000.00	\$ -	\$ 18,000.00
PEQ-Water Disposal	387						\$ 81,000.00	\$ -	\$ 81,000.00
PEQ-HRZ Well Offset Frac	391						\$ 9,000.00	\$ -	\$ 9,000.00
Total Intangible Costs		\$ -	\$ -	\$ 2,548,000.00	\$ 4,442,000.00	\$ 268,000.00	\$ 108,000.00	\$ -	\$ 7,366,000.00
Tangible Costs									
PEQ-Flowback Crews & Equip	392						\$ 49,000.00	\$ -	\$ 49,000.00
D-Surface Casng	401			\$ 21,000.00				\$ -	\$ 21,000.00
D-Intermed Csg	402			\$ 159,000.00				\$ -	\$ 159,000.00
D-Production Casing/Liner	403			\$ 395,000.00				\$ -	\$ 395,000.00
D-Wellhead Equip	405			\$ 72,000.00				\$ -	\$ 72,000.00
C-Tubing	504				\$ 69,000.00			\$ -	\$ 69,000.00
C-Wellhead Equip	505				\$ 37,000.00			\$ -	\$ 37,000.00
TB-Tanks	510					\$ 69,000.00		\$ -	\$ 69,000.00
TB-Flowlines/Pipelines	511					\$ 31,000.00		\$ -	\$ 31,000.00
TB-Hlr Trb/Seprtr	512					\$ 222,000.00		\$ -	\$ 222,000.00
TB-Electrical System/Equipment	513					\$ 137,000.00		\$ -	\$ 137,000.00
C-Pckrs/Anchors/Hgrs	514				\$ 86,000.00			\$ -	\$ 86,000.00
TB-Couplings/Fittings/Valves	515					\$ 232,000.00		\$ -	\$ 232,000.00
TB-Pumps-Surface	521					\$ 31,000.00		\$ -	\$ 31,000.00
TB-Instrumentation/SCADA/POC	522					\$ 23,000.00		\$ -	\$ 23,000.00
TB-Fluoresceaneous	523					\$ 23,000.00		\$ -	\$ 23,000.00
TB-Meters/Lacts	525					\$ 31,000.00		\$ -	\$ 31,000.00
TB-Flares/Combusters/Emission	526					\$ 37,000.00		\$ -	\$ 37,000.00
C-Gas Lift/Compression	527				\$ 33,000.00			\$ -	\$ 33,000.00
PEQ-Wellhead Equipment	531						\$ 18,000.00	\$ -	\$ 18,000.00
Total Tangible Costs		\$ -	\$ -	\$ 647,000.00	\$ 225,000.00	\$ 836,000.00	\$ 67,000.00	\$ -	\$ 1,775,000.00
Total Gross Cost		\$ -	\$ -	\$ 3,195,000.00	\$ 4,667,000.00	\$ 1,094,000.00	\$ 175,000.00	\$ -	\$ 9,131,000.00

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

COG Operating LLC

By: _____

Date Prepared: _____

We approve:
% Working Interest

COG Operating LLC

By: _____

Company:
By: _____

Printed Name:
Title:
Date: _____

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

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

Well Name TOMAHAWK FED UHIT 715H
SHL A-30-245-28E
BHL A-18-245-28E
Formation WOLF CAMP
Legal E2 18 & 19, T245-R28E
AFE Numbers

Prospect TOMAHAWK 2428
State & County NEW MEXICO, EDDY
Objective DRILL & COMPLETE
TVD 9,353

Cost Description	Code	Pre-Set (PS)	Pre-Set Casing (PC)	Drilling (DR)	Completions (C)	Tank Btry Constrctn (TB)	Prmpd Equip (PEQ)	Revisions	Total
Intangible Costs									
D-Lctr/Pits/Roads	205			\$ 91,000.00				\$ -	\$ 91,000.00
D-Dring Overhead	206			\$ 7,000.00				\$ -	\$ 7,000.00
D-Daywork Contract	209			\$ 496,000.00				\$ -	\$ 496,000.00
D-Directional Drly Services	210			\$ 265,000.00				\$ -	\$ 265,000.00
D-Fuel & Power	211			\$ 86,000.00				\$ -	\$ 86,000.00
D-Water	212			\$ 72,000.00				\$ -	\$ 72,000.00
D-Bbs	213			\$ 91,000.00				\$ -	\$ 91,000.00
D-Mud & Chemicals	214			\$ 187,000.00				\$ -	\$ 187,000.00
D-Cement Surface	217			\$ 19,000.00				\$ -	\$ 19,000.00
D-Cement Intermed	218			\$ 72,000.00				\$ -	\$ 72,000.00
D-Prod-2nd Int Cml	219			\$ 106,000.00				\$ -	\$ 106,000.00
D-Float Equipment & Centrfzrs	221			\$ 58,000.00				\$ -	\$ 58,000.00
D-Csg Crews & Equip	222			\$ 63,000.00				\$ -	\$ 63,000.00
D-Contract Labor	225			\$ 7,000.00				\$ -	\$ 7,000.00
D-Company Spvsn	228			\$ 42,000.00				\$ -	\$ 42,000.00
D-Contract Spvsn	227			\$ 104,000.00				\$ -	\$ 104,000.00
D-Tstg Csg/Tbg	228			\$ 39,000.00				\$ -	\$ 39,000.00
D-Mud Logging Unit	229			\$ 39,000.00				\$ -	\$ 39,000.00
D-Rentals-Surface	235			\$ 161,000.00				\$ -	\$ 161,000.00
D-Rentals-Subsrfc	236			\$ 75,000.00				\$ -	\$ 75,000.00
D-Trucking/Forkfltr/Rig Mob	237			\$ 154,000.00				\$ -	\$ 154,000.00
D-Welding Services	238			\$ 3,000.00				\$ -	\$ 3,000.00
D-Contingency	243			\$ 58,000.00				\$ -	\$ 58,000.00
D-Emvmt/Clsd Loop	244			\$ 253,000.00				\$ -	\$ 253,000.00
C-Wellbore Frac Prep	304				\$ 127,000.00			\$ -	\$ 127,000.00
C-Lctr/Pits/Roads	305				\$ 14,000.00			\$ -	\$ 14,000.00
C-Completion OH	306				\$ 20,000.00			\$ -	\$ 20,000.00
C-Frac Equipment	307				\$ 865,000.00			\$ -	\$ 865,000.00
C-Frac Chemicals	308				\$ 548,000.00			\$ -	\$ 548,000.00
C-Frac Proppant	309				\$ 249,000.00			\$ -	\$ 249,000.00
C-Frac Proppant Transportation	310				\$ 387,000.00			\$ -	\$ 387,000.00
C-Fuel Delvry & Services	311				\$ 56,000.00			\$ -	\$ 56,000.00
C-Water	312				\$ 366,000.00			\$ -	\$ 366,000.00
C-Frac Surface Rentals	315				\$ 345,000.00			\$ -	\$ 345,000.00
C-Contract Labor	325				\$ 14,000.00			\$ -	\$ 14,000.00
C-Company Spvsn	326				\$ 14,000.00			\$ -	\$ 14,000.00
C-Contract Spvsn	327				\$ 184,000.00			\$ -	\$ 184,000.00
C-Antifal Lift Install	329				\$ 60,000.00			\$ -	\$ 60,000.00
C-PerfVlve Svc	331				\$ 425,000.00			\$ -	\$ 425,000.00
C-Trucking/Forkfltr/Rig Mob	337				\$ 14,000.00			\$ -	\$ 14,000.00
C-Water Disposal	339				\$ 53,000.00			\$ -	\$ 53,000.00
C-Contingency	343				\$ 99,000.00			\$ -	\$ 99,000.00
C-Dyed Diesel	345				\$ 207,000.00			\$ -	\$ 207,000.00
C-Drkout	346				\$ 395,000.00			\$ -	\$ 395,000.00
TB-Damages/Right of Way	351					\$ 2,000.00		\$ -	\$ 2,000.00
TB-Location/Pits/Roads	353					\$ 40,000.00		\$ -	\$ 40,000.00
TB-Contract Labor	356					\$ 216,000.00		\$ -	\$ 216,000.00
PEQ-Contract Labor	374						\$ 18,000.00	\$ -	\$ 18,000.00
PEQ-Water Disposal	387						\$ 81,000.00	\$ -	\$ 81,000.00
PEQ-HRZ Well Offset Frac	391						\$ 9,000.00	\$ -	\$ 9,000.00
Total Intangible Costs				\$ 2,548,000.00	\$ 4,442,000.00	\$ 258,000.00	\$ 108,000.00	\$ -	\$ 7,358,000.00
Tangible Costs									
PEQ-Flowback Crews & Equip	392						\$ 49,000.00	\$ -	\$ 49,000.00
D-Surface Casing	401			\$ 21,000.00				\$ -	\$ 21,000.00
D-Intermed Csg	402			\$ 159,000.00				\$ -	\$ 159,000.00
D-Production Casing/Liner	403			\$ 395,000.00				\$ -	\$ 395,000.00
D-Wellhead Equip	405			\$ 72,000.00				\$ -	\$ 72,000.00
C-Tubing	504				\$ 69,000.00			\$ -	\$ 69,000.00
C-Wellhead Equip	505				\$ 37,000.00			\$ -	\$ 37,000.00
TB-Tanks	510					\$ 69,000.00		\$ -	\$ 69,000.00
TB-Flowlines/Pipelines	511					\$ 31,000.00		\$ -	\$ 31,000.00
TB-Hlr Trib/Seprtr	512					\$ 222,000.00		\$ -	\$ 222,000.00
TB-Electrical System/Equipment	513					\$ 137,000.00		\$ -	\$ 137,000.00
C-Pckts/Anchors/Hgts	514				\$ 86,000.00			\$ -	\$ 86,000.00
TB-Couplings/Fittings/Valves	515					\$ 232,000.00		\$ -	\$ 232,000.00
TB-Pumps-Surface	521					\$ 31,000.00		\$ -	\$ 31,000.00
TB-Instrumentation/SCADA/POC	522					\$ 23,000.00		\$ -	\$ 23,000.00
TB-Miscellaneous	523					\$ 23,000.00		\$ -	\$ 23,000.00
TB-Meters/Lacts	525					\$ 31,000.00		\$ -	\$ 31,000.00
TB-Flares/Combusters/Emission	526					\$ 37,000.00		\$ -	\$ 37,000.00
C-Gas Lift/Compression	527				\$ 33,000.00			\$ -	\$ 33,000.00
PEQ-Wellhead Equipment	531						\$ 18,000.00	\$ -	\$ 18,000.00
Total Tangible Costs				\$ 647,000.00	\$ 226,000.00	\$ 836,000.00	\$ 67,000.00	\$ -	\$ 1,776,000.00
Total Gross Cost				\$ 3,195,000.00	\$ 4,668,000.00	\$ 1,094,000.00	\$ 175,000.00	\$ -	\$ 9,131,000.00

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

COG Operating LLC

By: _____

Date Prepared: _____

We approve:
1/3 Working Interest

COG Operating LLC

Company:
By: _____

By: _____

Printed Name:
Title:
Date: _____

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

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

Well Name TOMAHAWK FED UNIT 716H
SHL A-30-245-28E
BHL B-18-245-28E
Formation WOLFECAMP
Legal E2 18 & 19, T245-R28E
AFE Numbers

Prospect TOMAHAWK 2428
State & County NEW MEXICO, EDDY
Objective DRILL & COMPLETE
TVD 9,324

Cost Description	Code	PreSpud (PS)	Pre-Set Casing (PC)	Drilling (DR)	Completions (CI)	Tank Bldg Constr (TB)	PEQ Equip (PEQ)	Revision	Total
Intangible Costs									
D-Lcty/Pits/Roads	205			\$ 91,000.00					\$ 91,000.00
D-Onsng Overhead	206			\$ 7,000.00					\$ 7,000.00
D-Daywork Contract	209			\$ 496,000.00					\$ 496,000.00
D-Directional Drlg Services	210			\$ 265,000.00					\$ 265,000.00
D-Fuel & Power	211			\$ 86,000.00					\$ 86,000.00
D-Water	212			\$ 72,000.00					\$ 72,000.00
D-Bits	213			\$ 91,000.00					\$ 91,000.00
D-Mud & Chemicals	214			\$ 187,000.00					\$ 187,000.00
D-Cement Surface	217			\$ 19,000.00					\$ 19,000.00
D-Cement Intermed	218			\$ 72,000.00					\$ 72,000.00
D-Prod-2nd Int Cmt	219			\$ 106,000.00					\$ 106,000.00
D-Float Equipment & Centrifzrs	221			\$ 58,000.00					\$ 58,000.00
D-Csg Crews & Equip	222			\$ 63,000.00					\$ 63,000.00
D-Contract Labor	225			\$ 7,000.00					\$ 7,000.00
D-Company Sprvsn	226			\$ 42,000.00					\$ 42,000.00
D-Contract Sprvsn	227			\$ 104,000.00					\$ 104,000.00
D-Tstg Csg/Tbg	228			\$ 39,000.00					\$ 39,000.00
D-Mud Logging Unit	229			\$ 39,000.00					\$ 39,000.00
D-Rentals-Surface	235			\$ 161,000.00					\$ 161,000.00
D-Rentals-Subsrfc	236			\$ 75,000.00					\$ 75,000.00
D-Trucking/Forklift/Rig Mob	237			\$ 154,000.00					\$ 154,000.00
D-Welding Services	238			\$ 3,000.00					\$ 3,000.00
D-Contingency	243			\$ 58,000.00					\$ 58,000.00
D-Environ/Chld Loop	244			\$ 253,000.00					\$ 253,000.00
C-Wellbore Frac Prep	304				\$ 127,000.00				\$ 127,000.00
C-Lcty/Pits/Roads	305				\$ 14,000.00				\$ 14,000.00
C-Completion OH	306				\$ 20,000.00				\$ 20,000.00
C-Frac Equipment	307				\$ 865,000.00				\$ 865,000.00
C-Frac Chemicals	308				\$ 548,000.00				\$ 548,000.00
C-Frac Proppant	309				\$ 249,000.00				\$ 249,000.00
C-Frac Proppant Transportation	310				\$ 387,000.00				\$ 387,000.00
C-Fuel Delivery & Services	311				\$ 56,000.00				\$ 56,000.00
C-Water	312				\$ 366,000.00				\$ 366,000.00
C-Frac Surface Rentals	315				\$ 345,000.00				\$ 345,000.00
C-Contract Labor	325				\$ 14,000.00				\$ 14,000.00
C-Company Sprvsn	326				\$ 14,000.00				\$ 14,000.00
C-Contract Sprvsn	327				\$ 184,000.00				\$ 184,000.00
C-Artificial Lift Instal	329				\$ 60,000.00				\$ 60,000.00
C-Perf/Wireline Svc	331				\$ 425,000.00				\$ 425,000.00
C-Trucking/Forklift/Rig Mob	337				\$ 14,000.00				\$ 14,000.00
C-Water Disposal	339				\$ 53,000.00				\$ 53,000.00
C-Contingency	343				\$ 99,000.00				\$ 99,000.00
C-Dyrd Diesel	345				\$ 207,000.00				\$ 207,000.00
C-Drillout	346				\$ 395,000.00				\$ 395,000.00
TB-Damages/Rislt of Way	351					\$ 2,000.00			\$ 2,000.00
TB-Location/Pile/Roads	353					\$ 40,000.00			\$ 40,000.00
TB-Contract Labor	356					\$ 216,000.00			\$ 216,000.00
PEQ-Contract Labor	374						\$ 18,000.00		\$ 18,000.00
PEQ-Water Disposal	387						\$ 81,000.00		\$ 81,000.00
PEQ-HRZ Well Offset Frac	391						\$ 9,000.00		\$ 9,000.00
Total Intangible Costs				\$ 2,548,000.00	\$ 4,442,000.00	\$ 268,000.00	\$ 108,000.00		\$ 7,366,000.00
Tangible Costs									
PEQ-Flowback Crews & Equip	392						\$ 49,000.00		\$ 49,000.00
D-Surface Casing	401			\$ 21,000.00					\$ 21,000.00
D-Intermed Csg	402			\$ 159,000.00					\$ 159,000.00
D-Production Casing/Liner	403			\$ 395,000.00					\$ 395,000.00
D-Wellhead Equip	405			\$ 72,000.00					\$ 72,000.00
C-Tubing	504				\$ 69,000.00				\$ 69,000.00
C-Wellhead Equip	505				\$ 37,000.00				\$ 37,000.00
TB-Tanks	510					\$ 69,000.00			\$ 69,000.00
TB-Flowlines/Pipelines	511					\$ 31,000.00			\$ 31,000.00
TB-Hlr Trlb/Seprtr	512					\$ 222,000.00			\$ 222,000.00
TB-Electrical System/Equipment	513					\$ 137,000.00			\$ 137,000.00
C-Pctrs/Anchors/Hgrs	514			\$ 86,000.00					\$ 86,000.00
TB-Couplings/Fittings/Valves	515					\$ 232,000.00			\$ 232,000.00
TB-Pumps-Surface	521					\$ 31,000.00			\$ 31,000.00
TB-Instrumentation/SCADA/POC	522					\$ 23,000.00			\$ 23,000.00
TB-Miscellaneous	523					\$ 23,000.00			\$ 23,000.00
TB-Meters/Scale	525					\$ 31,000.00			\$ 31,000.00
TB-Flares/Combusters/Emission	526					\$ 37,000.00			\$ 37,000.00
C-Gas Lfr/Compression	527				\$ 33,000.00				\$ 33,000.00
PEQ-Wellhead Equipment	531						\$ 18,000.00		\$ 18,000.00
Total Tangible Costs				\$ 647,000.00	\$ 228,000.00	\$ 816,000.00	\$ 67,000.00		\$ 1,778,000.00
Total Gross Cost				\$ 3,195,000.00	\$ 4,667,000.00	\$ 1,084,000.00	\$ 175,000.00		\$ 9,131,000.00

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

COG Operating LLC

By: _____

Date Prepared: _____

We approve:
% Working Interest

COG Operating LLC

By: _____

Company:
By: _____

Printed Name:
Title:
Date: _____

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

DATE	DESCRIPTION	ADDRESS	CMRRR	DELIVERY CONFIRMATION DATE
4/6/2022	Fed Comm Agreement to Lyle Rexford Butz and Jessie Pearl Butz and/or Heirs or Estate of Lyle Rexford Butz II and Jessie Pearl Butz - 714H-716H	6565 Clearwater Drive, Loveland CO 80538	Overnight mail	4/7/2022
4/6/2022	Fed Comm Agreement to Lyle Rexford Butz and Jessie Pearl Butz and/or Heirs or Estate of Lyle Rexford Butz II and Jessie Pearl Butz - 714H-716H	10939 Yukon St, Westminster CO 80021	Overnight mail	4/7/2022
4/6/2022	Fed Comm Agreement to Lyle Rexford Butz and Jessie Pearl Butz and/or Heirs or Estate of Lyle Rexford Butz II and Jessie Pearl Butz - 714H-716H	222 Fashion Lane Suite 205, Tustin CA 92780	Overnight mail	Unknown
3/14/2022	Tomahawk WC Unit 1st Revision to 2022 POD - Lyle Rexford Butz II OR Heirs of Lyle Rexford Butz or Per Rep of Estate of Lyle Rexford Butz II	6565 Clearwater Drive, Loveland CO 80538	91 7199 9991 7038 7772 3422	3/18/2022
2/28/2022	Well proposal to Lyle Rexford Butz II OR Heirs of Lyle Rexford Butz or Per Rep of Estate of Lyle Rexford Butz II - 714H-716H	222 Fashion Lane Suite 205, Tustin CA 92780	9489 0090 0027 6357 7567 71	"In transit"
2/28/2022	Well proposal to Lyle Rexford Butz II OR Heirs of Lyle Rexford Butz or Per Rep of Estate of Lyle Rexford Butz II - 714H-716H	6565 Clearwater Drive, Loveland CO 80538	91 7199 9991 7038 7772 3422	3/18/2022
2/28/2022	Well proposal to Jessie Pearl Butz OR Per Rep of Estate of Jessie Pearl Butz - 714H-716H	222 Fashion Lane Suite 205, Tustin CA 92780	91 7199 9991 7038 7772 3484	3/22/2022
2/28/2022	Well proposal to Jessie Pearl Butz OR Per Rep of Estate of Jessie Pearl Butz - 714H-716H	6565 Clearwater Drive, Loveland CO 80538	91 7199 9991 7038 7772 3477	3/3/2022
2/17/2022	Attempted Phone Call to Lyle Eric Beutz; left message			
5/11/2021	Ratification of Tomahawk WC Unit Agreement to SAP LLC	4901 Whitney Lane, Roswell NM 88203	9489 0090 0027 6171 4603 28	5/14/2021
5/7/2020	Well proposal to Lyle Rexford Butz II, et ux - 701H-705H & 709H-713H	10939 Yukon St, Westminster CO 80021	91 7199 9991 7039 8000 4272	5/11/2020
5/6/2020	Revisions to OA - Page 5 - to Lyle Rexford Butz II, et ux	10939 Yukon St, Westminster CO 80021	91 7199 9991 7039 8000 4272	5/11/2021
4/20/2020	Ratification of Tomahawk WC Unit Agreement to SAP LLC	4901 Whitney Lane, Roswell NM 88203	9489 0090 0027 6155 1854 14	4/23/2020
4/20/2020	Ratification of Tomahawk WC Unit Agreement to Lyle Rexford Butz II and Jesse Pearl Butz	10939 Yukon St, Westminster CO 80021	9489 0090 0027 6155 1854 52	4/23/2020

1/14/2020	Revisions to OA - Ex A - to Lyle Rexford Butz II, et ux	11240 Sunburst St, Sylmar CA 91342	91 7199 9991 7039 7971 8579	Unknown
7/30/2019	Ratification of Tomahawk WC Unit Agreement to SAP LLC	4901 Whitney Lane, Roswell NM 88203	9414 8149 0246 9822 0198 21	Unknown
7/30/2019	Revisions to OA - TOC, Pg 15 - to Lyle Rexford Butz II, et ux	11240 Sunburst St, Sylmar CA 91342	9414 8149 0246 9822 0194 87	Unknown
6/27/2019	Letter proposing Unit Agreement - to Lyle Rexford Butz II and wife, Jessie Pearl Butz	11240 Sunburst St, Sylmar CA 91342	91 7199 9991 7039 1755 6492	Unknown

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

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

CASE NO. 22716

**SELF-AFFIRMED STATEMENT
OF JESSICA PONTIFF**

1. I am a geologist at COG Operating LLC (“COG”) and am over 18 years of age. I have personal knowledge of the matters addressed herein and am competent to provide this Self-Affirmed Statement. I have previously testified before the New Mexico Oil Conservation Division (“Division”), and my credentials as an expert in petroleum geology matters were accepted and made a matter of record.

2. I am familiar with the geological matters that pertain to this case.

3. **Exhibit B-1** is a location map for the proposed horizontal spacing units (“Unit”) within the Wolfcamp formation. The approximate wellbore paths for the proposed **Tomahawk WC Unit 714H, Tomahawk WC Unit 715H, and Tomahawk WC Unit 716H** wells (“Wells”) are represented by red dashed lines. Existing producing wells in the targeted interval are represented by light purple solid lines.

4. **Exhibit B-2** is a subsea structure map for the top of the formation that is representative of the targeted interval within the formation. The data points are indicated by red crosses. The approximate wellbore paths for the Wells are depicted by red dashed lines. The map demonstrates the formation is gently dipping to the east in this area. I do not observe any faulting, pinch-outs, or geologic impediments to developing the targeted intervals with horizontal wells.

COG Operating LLC
Case No. 22716
Exhibit B

5. **Exhibit B-2** also identifies three wells penetrating the targeted interval I used to construct a stratigraphic cross-section from A to A'. I used these well logs because they penetrate the targeted interval, are of good quality, and are representative of the geology in the area.

6. **Exhibit B-3** is a stratigraphic cross-section using the representative wells identified on **Exhibit B-2**. It contains gamma ray, resistivity and porosity logs. The proposed landing zone for the Wells is labeled on the exhibit. This cross-section demonstrates the target interval is continuous across the Unit.

7. In my opinion, a standup orientation for the Wells is appropriate to properly develop the subject acreage configuration because of consistent rock properties throughout the Unit and equivalent orientation versus east and west offset producers.

8. Based on my geologic study of the area, the targeted interval underlying the Unit is suitable for development by horizontal wells and the tracts comprising the Unit will contribute more or less equally to the production of the Wells.

9. In my opinion, the granting of COG's application will serve the interests of conservation, the protection of correlative rights, and the prevention of waste.

10. The exhibits attached hereto were either prepared by me or under my supervision or were compiled from company business records.

11. I understand this Self-Affirmed Statement will be used as written testimony in this case. I affirm my testimony in paragraphs 1 through 10 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date identified next to my signature below.



Jessica Pontiff

4.22.2022
Date



COG OPERATING LLC

Tomahawk WC Unit 714H

Tomahawk WC Unit 715H

Tomahawk WC Unit 716H

Sections 30 (SHL), 19 and 18, T24S R28E

Eddy County, New Mexico



Wolfcamp Pool

Tomahawk WC Unit 714H, 715H and 716H

25S 28E



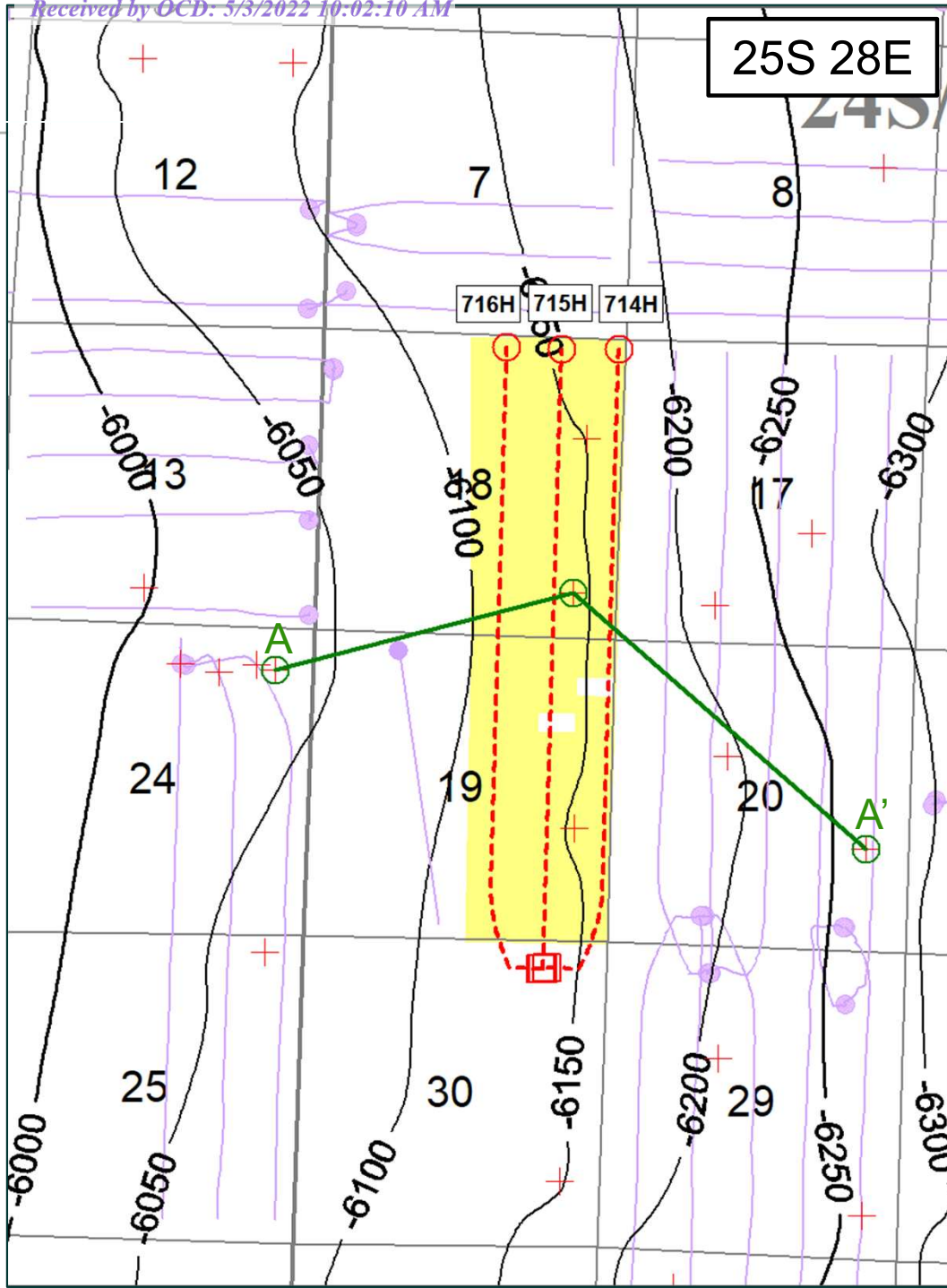
Map Legend

- SHL COG – Wolfcamp Horizontal Location
- BHL Existing Wolfcamp A Sand Producer
- COG Acreage
- COG Acreage

COG Operating LLC
Case No. 22716
Exhibit B-1

Wolfcamp Pool Wolfcamp Structure Map

25S 28E



Map Legend



COG – Wolfcamp Horizontal Location



Existing Wolfcamp A Sand Producer



Wolfcamp Subsea Structure
CI: 50'



Cross Section Line A-A'



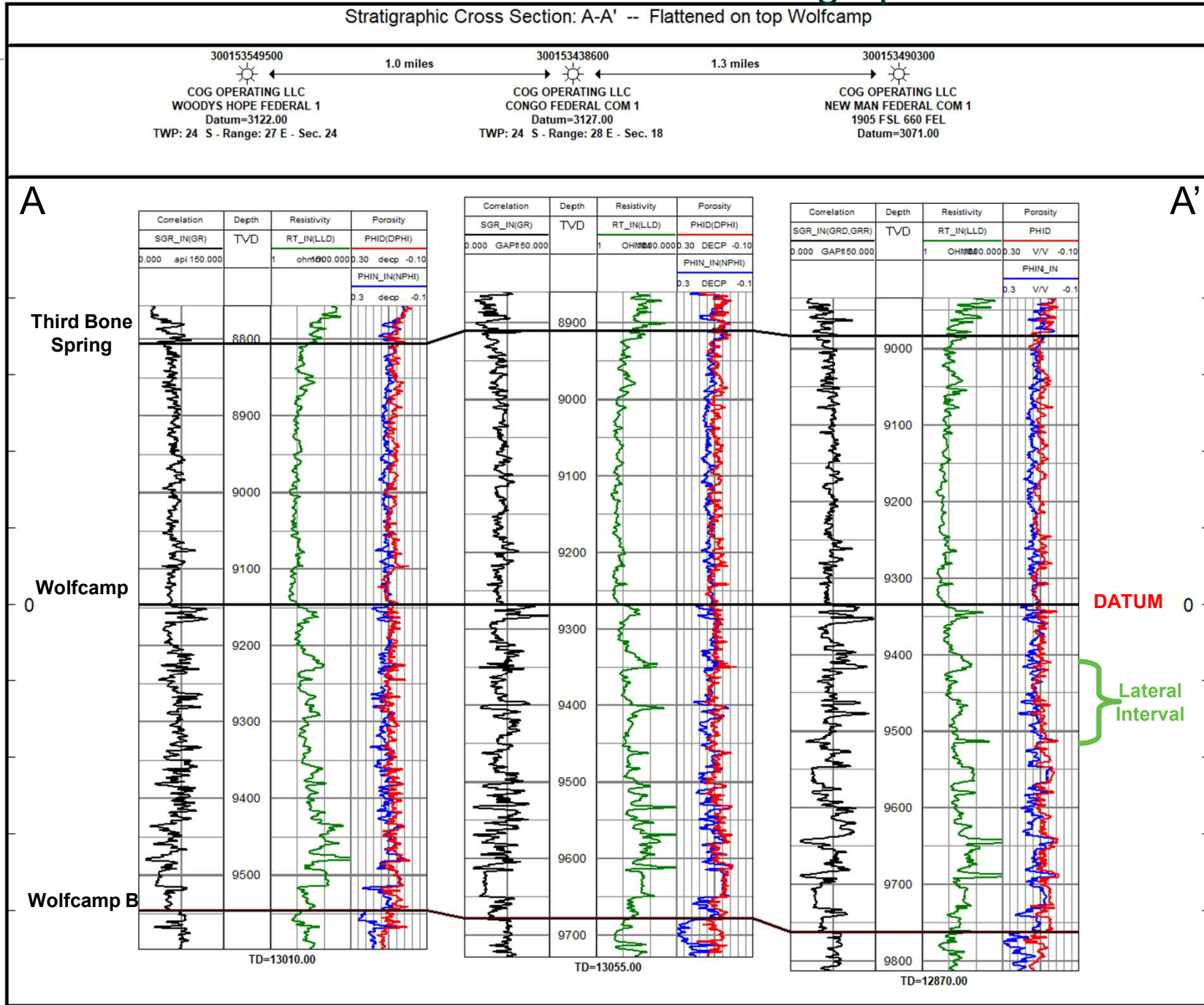
Structural Data Point



COG Acreage

COG Operating LLC
Case No. 22716
Exhibit B-2

Stratigraphic Cross Section A – A'



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

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

CASE NO. 22716

SELF-AFFIRMED STATEMENT
OF DANA S. HARDY

1. I am an attorney in fact and authorized representative of COG Operating LLC, the Applicant herein, and being first duly sworn, upon oath, state as follows.

2. I am familiar with the Notice Letter attached as **Exhibit C-1** and caused the Notice Letter to be sent to the parties set out in the chart attached as **Exhibit C-2**.

3. The above-referenced Application was provided, along with the Notice Letters, to the recipients listed in Exhibit C-2.

4. Exhibit C-2 also provides the date each Notice Letter was sent and the date each return was received.

5. Copies of the certified mail green cards and white slips are attached as **Exhibit C-3** as supporting documentation for proof of mailing and the information provided on Exhibit C-2.

6. On April 15, 2022, I caused a notice to be published to all interested parties in the Carlsbad Current Argus. An Affidavit of Publication from the Legal Clerk of the Carlsbad Current Argus, along with a copy of the notice publication, is attached as **Exhibit C-4**.

/s/ Dana S. Hardy

May 3, 2022

COG Operating, LLC
Case No. 22716
Exhibit C



hinklelawfirm.com

HINKLE SHANOR LLP

ATTORNEYS AT LAW

PO BOX 2068

SANTA FE, NEW MEXICO 87504

505-982-4554 (FAX) 505-982-8623

WRITER:

Dana S. Hardy, Partner
dhardy@hinklelawfirm.com

April 1, 2022

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

TO ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS

Re: Case No. 22716 - Application of COG Operating, LLC for Compulsory Pooling, Lea County, New Mexico.

To whom it may concern:

This letter is to advise you that COG Operating, LLC filed the enclosed application with the New Mexico Oil Conservation Division. The hearing will be conducted on **May 5, 2022** beginning at 8:15 a.m.

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

Pursuant to Division Rule 19.15.4.13.B, a party who intends to present evidence at the hearing shall file a pre-hearing statement and serve copies on other parties, or the attorneys of parties who are represented by counsel, at least four business days in advance of a scheduled hearing, but in no event later than 5:00 p.m. mountain time, on the Thursday preceding the scheduled hearing date. The statement must be filed at the Division's Santa Fe office or electronically submitted to ocd.hearings@state.nm.us and should include: the names of the parties and their attorneys, a concise statement of the case, the names of all witnesses the party will call to testify at the hearing, the approximate time the party will need to present its case, and identification of any procedural matters that are to be resolved prior to the hearing.

Please do not hesitate to contact me if you have any questions about this matter.

Sincerely,

/s/ Dana S. Hardy

Dana S. Hardy

Enclosure

COG Operating, LLC
Case No. 22716
Exhibit C-1

PO BOX 10
ROSWELL, NEW MEXICO 88202
575-622-6510
(FAX) 575-623-9332

PO BOX 2068
SANTA FE, NEW MEXICO 87504
505-982-4554
(FAX) 505-982-8623

7601 JEFFERSON ST NE • SUITE 180
ALBUQUERQUE, NEW MEXICO 87109
505-858-8320
(FAX) 505-858-8321



HINKLE SHANOR LLP
 ATTORNEYS AT LAW
 PO BOX 2068
 SANTA FE, NEW MEXICO 87504
 505-982-4554 (FAX) 505-982-8623

WRITER:

Dana S. Hardy, Partner
dhardy@hinklelawfirm.com

April 5, 2022

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

TO ALL OVERRIDING ROYALTY INTEREST OWNERS

Re: Case No. 22716 - Application of COG Operating, LLC for Compulsory Pooling, Lea County, New Mexico.

To whom it may concern:

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Please do not hesitate to contact me if you have any questions about this matter.

Sincerely,

/s/ Dana S. Hardy

Dana S. Hardy

Enclosure

PO BOX 10
 ROSWELL, NEW MEXICO 88202
 575-622-6510
 (FAX) 575-622-9332

PO BOX 2068
 SANTA FE, NEW MEXICO 87504
 505-982-4554
 (FAX) 505-982-8623

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 ALBUQUERQUE, NEW MEXICO 87109
 505-858-8320
 (FAX) 505-858-8321

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

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

Case No. 22716

NOTICE LETTERS

PARTY	NOTICE LETTER SENT	RETURN RECEIVED
Jessie Pearl Butz, or Heir(s) of Jessie Pearl Butz or Personal Representative(s) of the Estate 6565 Clearwater Drive Loveland, CO 80538-7037	04/05/22	04/11/22
Jessie Pearl Butz, or Heir(s) of Jessie Pearl Butz or Personal Representative(s) of the Estate 222 Fashion Lane, Suite 205 Tustin, CA 92780-3318	04/05/22	04/18/22
Lyle Rexford Butz II, or Heir(s) of Lyle Rexford Butz II, or Personal Representative of the Estate 6565 Clearwater Drive Loveland, CO 80538-7037	04/05/22	04/08/22
Lyle Rexford Butz II, or Heir(s) of Lyle Rexford Butz II, or Personal Representative of the Estate 222 Fashion Lane, Suite 205 Tustin, CA 92780-3318	04/05/22	04/18/22
SAP, LLC 4901 Whitney Lane Roswell, NM 88203	04/05/22	04/11/22

COG Operating, LLC
Case No. 22716
Exhibit C-2

7021 0950 0002 0364 5372

U.S. Postal Service™
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OFFICIAL USE

Certified Mail Fee \$ _____

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total Postage and Fees \$ _____

Sent To Lyle Rexford Butz, II and Jessie Pearl Butz
 Street and Address and/or Heirs or Estate of Lyle Rexford Butz II
 and Jessie Pearl Butz
 222 Fashion Lane, Suite 205
 City, State, Z _____

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SANTA FE, NM 87501
 APR 05 2022
 USPS

HINKLE SHANOR LLP
 ATTORNEYS AT LAW
 POST OFFICE BOX 2068
 SANTA FE, NEW MEXICO 87504



7021 0950 0002 0364 5372

Lyle Rexford Butz, II and Jessie Pearl Butz
 and/or Heirs or Estate of Lyle Rexford Butz
 II and Jessie Pearl Butz
 222 Fashion Lane, Suite 205
 Tustin, CA 92780

ANK 19 TJK

FIRST-CLASS



US POSTAGE™ PITNEY BOWES

ZIP 87501 \$ 007.33⁰
 02 7H
 0006052409 APR 05 2022

NIXIE 911 DE 1 0004/14/22

RETURN TO SENDER
 NO SUCH NUMBER
 UNABLE TO FORWARD

BC: 87504206868 *2255-00782-05-42

87504206868

COG Operating, LLC
 Case No. 22716
 Exhibit C-3

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APR 01 2022
USPS

7021 0950 0002 0364 5020

Certified Mail Fee \$

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$


Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To Jessie Pearl Butz, or Heir(s) of Jessie Pearl Butz
 or Personal Representative(s) of the Estate
 Street and Ap 222 Fashion Lane, Suite 205
 City, State, Zi Tustin, CA 92780-3318

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY																
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. <p>1. Article Addressed to:</p> <p>Jessie Pearl Butz, or Heir(s) of Jessie Pearl Butz or Personal Representative(s) of the Estate 222 Fashion Lane, Suite 205 Tustin, CA 92780-3318</p> <div style="text-align: center;">  9590 9402 6746 1074 2479 69 </div> <p>2. Article Number (Transfer from service label)</p> <p>7021 0950 0002 0364 5020</p>	<p>A. Signature</p> <p><input checked="" type="checkbox"/> <i>Jessie Pearl Butz</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____</p> <p>C. Date of Delivery 4/14/22</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>3. Service Type</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input checked="" type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</td> <td></td> </tr> </table>	<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery	<input type="checkbox"/> Collect on Delivery Restricted Delivery		<input type="checkbox"/> Insured Mail		<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)	
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®																
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™																
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery																
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation™																
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery																
<input type="checkbox"/> Collect on Delivery Restricted Delivery																	
<input type="checkbox"/> Insured Mail																	
<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)																	
PS Form 3811, July 2020 PSN 7530-02-000-9053	Domestic Return Receipt																

7021 0950 0002 0364 6096

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Certified Mail Fee \$

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

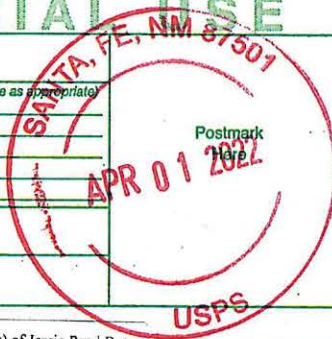
Adult Signature Restricted Delivery \$


Postage \$

Total Postage and Fees \$

Sent To
Street and A Jessie Pearl Butz, or Heir(s) of Jessie Pearl Butz
or Personal Representative(s) of the Estate
6565 Clearwater Drive
City, State, Loveland, CO 80538-7037

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> <i>JB R14 C19</i> <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>Buttz</i></p> <p>C. Date of Delivery <i>4-5</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input checked="" type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p>Jessie Pearl Butz, or Heir(s) of Jessie Pearl Butz or Personal Representative(s) of the Estate 6565 Clearwater Drive Loveland, CO 80538-7037</p>  <p>9590 9402 6746 1074 2480 10</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery</p> <p><input checked="" type="checkbox"/> Certified Mail®</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery</p> <p><input type="checkbox"/> Collect on Delivery</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery</p> <p><input type="checkbox"/> Insurec Mail</p> <p><input type="checkbox"/> Insurec Mail Restricted Delivery (over \$500)</p> <p><input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Registered Mail™</p> <p><input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Signature Confirmation Restricted Delivery</p>
<p>2. Article Number (Transfer from service label)</p> <p>7021 0950 0002 0364 6096</p>	
PS Form 3811, July 2020 PSN 7530-02-000-9053	Domestic Return Receipt

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Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy)

Return Receipt (electronic)

Certified Mail Restricted Delivery

Adult Signature Required

Adult Signature Restricted Delivery

Postage \$ _____

Total Postage and Fees \$ _____

Sent To

Street and A Lyle Rexford Butz II, or Heir(s) of Lyle Rexford Butz II, or Personal Representative of the Estate

City, State, & Zip 222 Fashion Lane, Suite 205 Tustin, CA 92780-3318

PS Form 3800, April 2015 PSN 7580-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY																
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature</p> <p>X <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>																
<p>1. Article Addressed to:</p> <p>Lyle Rexford Butz II, or Heir(s) of Lyle Rexford Butz II, or Personal Representative of the Estate 222 Fashion Lane, Suite 205 Tustin, CA 92780-3318</p>	<p>B. Received by (Printed Name) _____</p> <p>C. Date of Delivery <u>4/14/22</u></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>																
<p style="text-align: center;"></p> <p style="text-align: center;">9590 9402 6746 1074 2479 45</p> <p>2. Article Number (Transfer from service label)</p> <p style="font-size: 1.2em; font-weight: bold;">7021 0950 0002 0364 5044</p>	<p>3. Service Type</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input checked="" type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input checked="" type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</td> <td></td> </tr> </table>	<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input checked="" type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery	<input type="checkbox"/> Collect on Delivery Restricted Delivery		<input type="checkbox"/> Insured Mail		<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)	
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®																
<input checked="" type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™																
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery																
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation™																
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery																
<input type="checkbox"/> Collect on Delivery Restricted Delivery																	
<input type="checkbox"/> Insured Mail																	
<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)																	
PS Form 3811, July 2020 PSN 7530-02-000-9053	Domestic Return Receipt																

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Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total Postage and Fees \$ _____

Sent To Lyle Rexford Butz II, or Heir(s) of Lyle Rexford Butz II, or Personal Representative of the Estate

Street and Ap 6565 Clearwater Drive

City, State, Zi Loveland, CO 80538-7037

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Postmark Here
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SANTA FE, NM 87501
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SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> RB RLC <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) Butz</p> <p>C. Date of Delivery 4-5</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input checked="" type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p>Lyle Rexford Butz II, or Heir(s) of Lyle Rexford Butz II, or Personal Representative of the Estate 6565 Clearwater Drive Loveland, CO 80538-7037</p> <p>9590 9402 6746 1074 2479 52</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™</p> <p><input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery</p> <p><input type="checkbox"/> Insured Mail</p> <p><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>
<p>2. Article Number (Transfer from service label)</p> <p>7021 0950 0002 0364 5037</p>	
PS Form 3811, July 2020 PSN 7530-02-000-9053	Domestic Return Receipt

7021 0950 0002 0364 5358

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Certified Mail Fee \$ _____

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total Postage and Fees \$ _____


Sent To _____
 and/or Heirs or Estate of Lyle Rexford Butz II

Street and A/C _____
 and Jessie Pearl Butz
 6565 Clearwater Dr.

City, State, ZIP+4® _____
 Loveland, CO 80538

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature  <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <u>Butz</u> C. Date of Delivery <u>4-9</u></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If YES, enter delivery address below:</p>
<p>1. Article Addressed to:</p> <p>Lyle Rexford Butz, II and Jessie Pearl Butz and/or Heirs or Estate of Lyle Rexford Butz II and Jessie Pearl Butz 6565 Clearwater Dr. Loveland, CO 80538</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™</p> <p><input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery</p> <p><input type="checkbox"/> Insured Mail</p> <p><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>
<p>9590 9402 6746 1074 2377 86</p> <p>2. Article Number (Transfer from service label) 7021 0950 0002 0364 5358</p>	
PS Form 3811, July 2020 PSN 7530-02-000-9053	Domestic Return Receipt

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 Return Receipt (hardcopy) \$
 Return Receipt (electronic) \$
 Certified Mail Restricted Delivery \$
 Adult Signature Required \$
 Adult Signature Restricted Delivery \$

Postage \$
 Total Postage and Fees \$

Sent To
 Street and Address Lyle Rexford Butz, II and Jessie Pearl Butz
 and/or Heirs or Estate of Lyle Rexford Butz II
 and Jessie Pearl Butz
 City, State, ZIP+4® 10939 Yukon Street

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

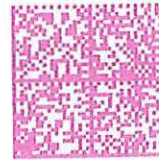


LINKLE SHANOR LLP
 ATTORNEYS AT LAW
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Lyle Rexford Butz, II and Jessie Pearl Butz
 and/or Heirs or Estate of Lyle Rexford Butz
 II and Jessie Pearl Butz
 10939 Yukon Street
 Loveland, CO 80021

NEXIE 871 NFE 1 2210004/01/2
 RETURN TO SENDER
 NOT DELIVERABLE AS ADDRESSED
 UNABLE TO FORWARD

RT: 87504788888 * 33441-00004-1001

0364 5365 0002 0950 2107

7207 0560 2000 4960 5341

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Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total Postage and Fees \$ _____

Sent To SAP, LLC
Street and 4901 Whitney Lane
Roswell, NM 88203
City, State, _____

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY.
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/></p> <p><i>D. Marley</i> <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>D. Marley</i> C. Date of Delivery <i>4/8/22</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If YES, enter delivery address below:</p>
<p>1. Article Addressed to:</p> <p>SAP, LLC 4901 Whitney Lane Roswell, NM 88203</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™</p> <p><input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>
<p>2. Article Number (Transfer from service label)</p> <p>9590 9402 6746 1074 2376 01</p> <p>7021 0950 0002 0364 5341</p>	

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Affidavit of Publication

Ad # 0005215958

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218 MONTEZUMA

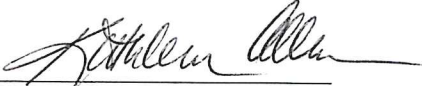
SANTA FE, NM 87501

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

04/15/2022


Legal Clerk

Subscribed and sworn before me this April 15, 2022:


State of WI, County of Brown
NOTARY PUBLIC
1-7-25
My commission expires

KATHLEEN ALLEN
Notary Public
State of Wisconsin

Ad # 0005215958
PO #:
of Affidavits 1

This is not an invoice

This is to notify all interested parties, including Jessie Pearl Butz; Heir(s) of Jessie Pearl Butz; Personal Representative of the Estate of Jessie Pearl Butz; Lyle Rexford Butz II; Heir(s) of Lyle Rexford Butz II; Personal Representative of the Estate of Lyle Rexford Butz II; SAP, LLC; and their successors and assigns, that the New Mexico Oil Conservation Division will conduct a hearing on an application submitted by COG Operating LLC (Case No. 22716). 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 May 5, 2022 beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted on the docket for the hearing date: <http://www.emnrd.state.nm.us/OCD/hearings.html>. Applicant applies for an order pooling all uncommitted interests within the Wolfcamp formation underlying a 640-acre, more or less, standard horizontal spacing unit comprised of the E/2 of Sections 18 and 19, Township 24 South, Range 28 East, Eddy County, New Mexico ("Unit"). The Unit will be dedicated to the following wells ("Wells"): Tomahawk WC Unit 714H and Tomahawk WC Unit 715H to be horizontally drilled from surface hole locations in the NE/4NE/4 (Unit A) of Section 30 to bottom hole locations in the NE/4NE/4 (Unit A) of Section 18, and Tomahawk WC Unit 716H to be horizontally drilled from a surface hole location in the NE/4NE/4 (Unit A) of Section 30 to a bottom hole location in the NW/4NE/4 (Unit B) of Section 18. The completed interval of the Tomahawk WC Unit 714H will be unorthodox. The completed intervals of the remaining Wells will be orthodox. Also, to be considered will be the cost of drilling and completing the Wells and the allocation of the costs, the designation of Applicant as the operator of the Wells, and a 200% charge for the risk involved in drilling and completing the Wells. The Wells are located approximately 2.75 miles west of Malaga, New Mexico.
#5215958, Current Argus,
April 15, 2022

COG Operating, LLC
Case No. 22716
Exhibit C-4