

# Application

Received: 11/4/2019

*This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete*

AWETK-191104-C-107B 623

Revised March 23, 2017

RECEIVED: 11/4/19	REVIEWER: DM	TYPE: PLC	APP NO: pDM1931240233
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Geological & Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

<b>Applicant:</b> COG OPERATING, LLC	<b>OGRID Number:</b> 229137
<b>Well Name:</b> LITTLE BEAR FEDERAL COM #4H	<b>API:</b> 30-025-45100
<b>Pool:</b> BERRY; BONE SPRING, NORTH	<b>Pool Code:</b> 5535

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW**

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
- A. Location – Spacing Unit – Simultaneous Dedication  
 NSL       NSP (PROJECT AREA)       NSP (PRORATION UNIT)       SD
- B. Check one only for [ I ] or [ II ]
- [ I ] Commingling – Storage – Measurement  
 DHC     CTB     PLC     PC     OLS     OLM
- [ II ] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery  
 WFX     PMX     SWD     IPI     EOR     PPR

FOR OCD ONLY	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	Application Content Complete

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.
- A.  Offset operators or lease holders  
 B.  Royalty, overriding royalty owners, revenue owners  
 C.  Application requires published notice  
 D.  Notification and/or concurrent approval by SLO  
 E.  Notification and/or concurrent approval by BLM  
 F.  Surface owner  
 G.  For all of the above, proof of notification or publication is attached, and/or,  
 H.  No notice required

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

**Note: Statement must be completed by an individual with managerial and/or supervisory capacity.**

BOBBIE J. GOODLOE  
 \_\_\_\_\_  
 Print or Type Name

11-4-19  
 \_\_\_\_\_  
 Date

  
 \_\_\_\_\_  
 Signature

575-748-6952  
 \_\_\_\_\_  
 Phone Number

bgoodloe@concho.com  
 \_\_\_\_\_  
 e-mail Address



November 4, 2019

Attn: Dean McClure  
 NM Oil Conservation Division  
 1220 South Saint Francis Drive  
 Santa Fe, New Mexico 87505

Re: *Amendment* to Application for Administrative Approval of Pool/Lease Commingle and CTB

Dear Mr. McClure,

COG Operating LLC, respectfully requests approval of the attached *amended* application for off-lease measurement and lease/pool commingling for the wells listed below. The original order, PLC-615, was approved on October 16, 2019. This amendment is necessary as the BLM cancelled Communization Agreement, NMNM140114 for the Wolfcamp zone.

Little Bear Federal Com #4H  
 API# 30-025-45100  
 Berry; Bone Spring, N  
 SHL: 384' FSL 1151' FWL, Ut. M, Sec. 33-T20S-R34E  
 BHL: 2420' FSL 1677' FWL, Ut. K, Sec. 28-T20S-34E  
 Lea County, NM

Little Bear Federal Com #5H  
 API# 30-025-45101  
 Berry; Bone Spring, N  
 SHL: 384' FSL 1091' FWL, Ut. B, Sec. 33-T20S-R34E  
 BHL: 2440' FSL 341' FWL, Ut. L, Sec. 28-T20S-R34E  
 Lea County, NM

Little Bear Federal Com #9H  
 API# 30-025-45105  
 WC-025 G-08 S203435D; Wolfcamp  
 SHL: 384' FSL 1121' FWL, Ut. M, Sec. 33-T20S-R34E  
 BHL: 2440' FSL 998' FWL, Ut. L, Sec. 28-T20S-34E  
 Lea County, NM

**Oil Production:**

Coriolis meters will be utilized for oil measurement on the downstream side of the heater treater vessels for each production train. These meters will act as allocation and will be proven as per API, NMOCD, and BLM specs upon initial installation. In addition to the on-lease measurement, the oil production from these wells may also be transported by truck to either the Red Hills Offload Station, located in Unit O, Section 4-T26S-R32E, or the Jal Offload Station, located in Unit D, Section 4-T26S-R37E, Lea County in the event the CTB on lease is over capacity or in the case of battery or pipeline repairs. In this case the oil will remain segregated and will be measured by lact meter when offloading at said stations.

**Gas Production:**

Orifice meters will be located downstream of each inlet 2-phase vessel, these will act as the gas allocation for each well entering the facility. These meters will meet API and AGA standards and will be calibrated on a regular interval per API, NMOCD, and BLM regulations. Gas from all the remaining process equipment will be gathered by the VRU and metered on the discharge side into the sales line. This VRU sales volume will be allocated back to

**CORPORATE ADDRESS**

ONE CONCHO CENTER | 600 WEST ILLINOIS AVENUE | MIDLAND, TEXAS 79701  
 P 432.683.7443 | F 432.683.7441

**ARTESIA WEST OFFICE**

2208 MAIN STREET | ARTESIA, NEW MEXICO 88210  
 P 575.748.6940 | F 575.746.2096

Page 2

November 4, 2019

NM Oil Conservation Division

each well based on the individual well's gas production. FMP's for both oil and gas will be at the point of custody transfer at the LACT unit and Targa owned sales gas meter.

All owners of interest have been notified by certified mail that should they have an objection to this off-lease measurement and surface commingling, they must file a formal protest with the NMOCD within 20 days of the date of this application. A Public Notice has also been posted in the Hobbs News Sun. Proof of owner notification and copy of Public Notice is enclosed.

Please see the enclosed Administrative Application Checklist, C-107B Application for Surface Commingling, plats for referenced wells, site facility diagram, maps with lease boundaries showing wells and facility locations and prior month's production along with copies of the submitted FMP sundries.

Thank you for your attention to this matter.

Sincerely,

A handwritten signature in blue ink that reads "Bobbie J Goodloe". The signature is fluid and cursive, with the first name being the most prominent.

Bobbie J Goodloe  
Regulatory Analyst

Enclosures

**District I**  
1625 N. French Drive, Hobbs, NM 88240  
**District II**  
811 S. First St., Artesia, NM 88210  
**District III**  
1000 Rio Brazos Road, Aztec, NM 87410  
**District IV**  
1220 S. St Francis Dr. Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107-B  
Revised August 1, 2011

**OIL CONSERVATION DIVISION**  
1220 S. St Francis Drive  
Santa Fe, New Mexico 87505

Submit the original application to the Santa Fe office with one copy to the appropriate District Office.

**APPLICATION FOR SURFACE COMMINGLING (DIVERSE OWNERSHIP)**

OPERATOR NAME: COG Operating LLC  
OPERATOR ADDRESS: 2208 W. Main Street, Artesia, NM 88210  
APPLICATION TYPE:

Pool Commingling  Lease Commingling  Pool and Lease Commingling  Off-Lease Storage and Measurement (Only if not Surface Commingled)

LEASE TYPE:  Fee  State  Federal

Is this an Amendment to existing Order?  Yes  No If "Yes", please include the appropriate Order No. PLC-615  
Have the Bureau of Land Management (BLM) and State Land office (SLO) been notified in writing of the proposed commingling  Yes  No

**(A) POOL COMMINGLING**  
Please attach sheets with the following information

(1) Pool Names and Codes	Gravities / BTU of Non-Commingled Production	Calculated Gravities / BTU of Commingled Production	Calculated Value of Commingled Production	Volumes
Berry; Bone Spring, North / 5535	47 / 1421.1			
WC-025 G-08 S203435D; WC / 98247	46 / 1425.6			

(2) Are any wells producing at top allowables?  Yes  No  
(3) Has all interest owners been notified by certified mail of the proposed commingling?  Yes  No  
(4) Measurement type:  Metering  Other (Specify)  
(5) Will commingling decrease the value of production?  Yes  No If "yes", describe why commingling should be approved

**(B) LEASE COMMINGLING**  
Please attach sheets with the following information

(1) Pool Name and Code.  
(2) Is all production from same source of supply?  Yes  No  
(3) Has all interest owners been notified by certified mail of the proposed commingling?  Yes  No  
(4) Measurement type:  Metering  Other (Specify)

**(C) POOL and LEASE COMMINGLING**  
Please attach sheets with the following information

(1) Complete Sections A and E.

**(D) OFF-LEASE STORAGE and MEASUREMENT**  
Please attached sheets with the following information

(1) Is all production from same source of supply?  Yes  No  
(2) Include proof of notice to all interest owners.

**(E) ADDITIONAL INFORMATION (for all application types)**  
Please attach sheets with the following information

(1) A schematic diagram of facility, including legal location.  
(2) A plat with lease boundaries showing all well and facility locations. Include lease numbers if Federal or State lands are involved.  
(3) Lease Names, Lease and Well Numbers, and API Numbers.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE:  TITLE: Regulatory Analyst DATE: 11-4-19  
TYPE OR PRINT NAME: Bobbie Goodloe TELEPHONE NO.: 575-748-6952  
E-MAIL ADDRESS: bgoodloe@concho.com

**DISTRICT I**  
1625 N. FRENCH DR., HOBBS, NM 88240  
Phone: (575) 393-8161 Fax: (575) 393-0720

**DISTRICT II**  
611 S. FIRST ST., ARTESIA, NM 88210  
Phone: (575) 748-1263 Fax: (575) 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) 476-3463

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 30-025-45100	Pool Code 5535	Pool Name Berry; Bone Spring, North
Property Code 322258	Property Name LITTLE BEAR FEDERAL COM	Well Number 4H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3805.2'

**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	33	20-S	34-E		384	SOUTH	1151	WEST	LEA

**Bottom Hole Location if Different From Surface**

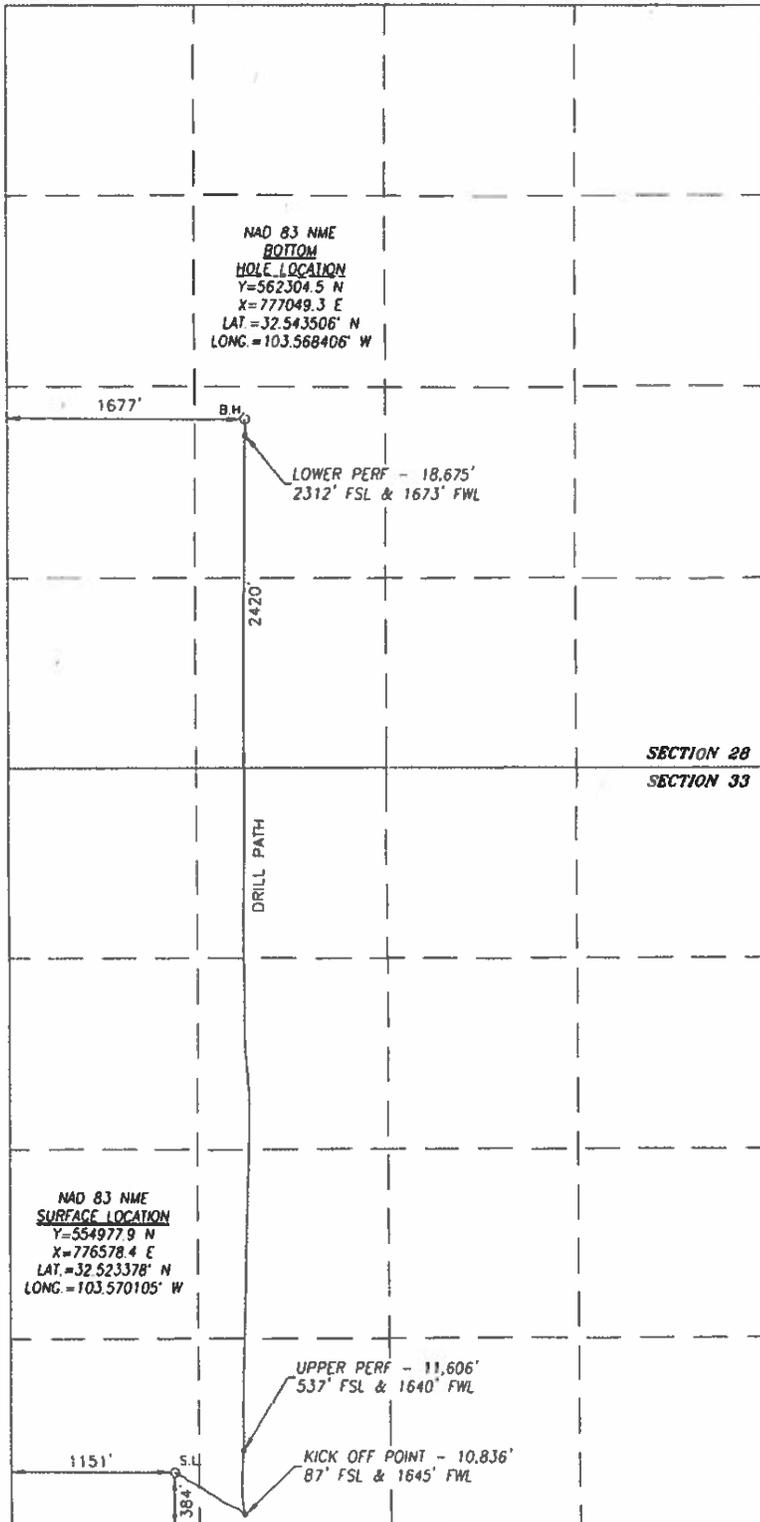
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	28	20-S	34-E		2420	SOUTH	1677	WEST	LEA

Dedicated Acres 240	Joint or Infill	Consolidation Code	Order No.
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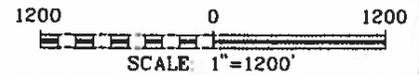
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SEE PAGE 2

Property Code 322258	Property Name LITTLE BEAR FEDERAL COM	Well Number 4H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3805.2'



BOREPATH SHOWN HEREON IS BASED ON DIRECTIONAL SURVEY REPORT PROVIDED BY COG OPERATING, LLC FOR THE LITTLE BEAR FEDERAL COM #4H SUPPLIED TO HARCROW SURVEYING, LLC ON JULY 1, 2019



**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.

*Bobbie Goodloe* 8-20-19  
 Signature Date

Bobbie Goodloe  
 Printed Name

bgoodloe@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.

FEB. 14, 2018/NOV. 21, 2018  
 Date of Survey/Date of Geographic Survey

Signature & Seal of Professional Surveyor



*Chad Harcrow* 7/22/19  
 Certificate No. CHAD HARCROW 17777

**DISTRICT I**  
1625 N. FRENCH DR., HOBBS, NM 88240  
Phone: (575) 393-6181 Fax: (575) 393-9720

**DISTRICT II**  
611 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) 334-6175 Fax: (505) 334-6170

**DISTRICT IV**  
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505  
Phone: (505) 476-5400 Fax: (505) 476-3482

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

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Revised August 1, 2011  
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District Office

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number 30-025-45101	Pool Code 5535	Pool Name Berry; Bone Spring North
Property Code 322258	Property Name LITTLE BEAR FEDERAL COM	
OGRID No. 229137	Operator Name COG OPERATING, LLC	
		Well Number 5H
		Elevation 3807.5'

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	33	20-S	34-E		384	SOUTH	1091	WEST	LEA

Bottom Hole Location If Different From Surface

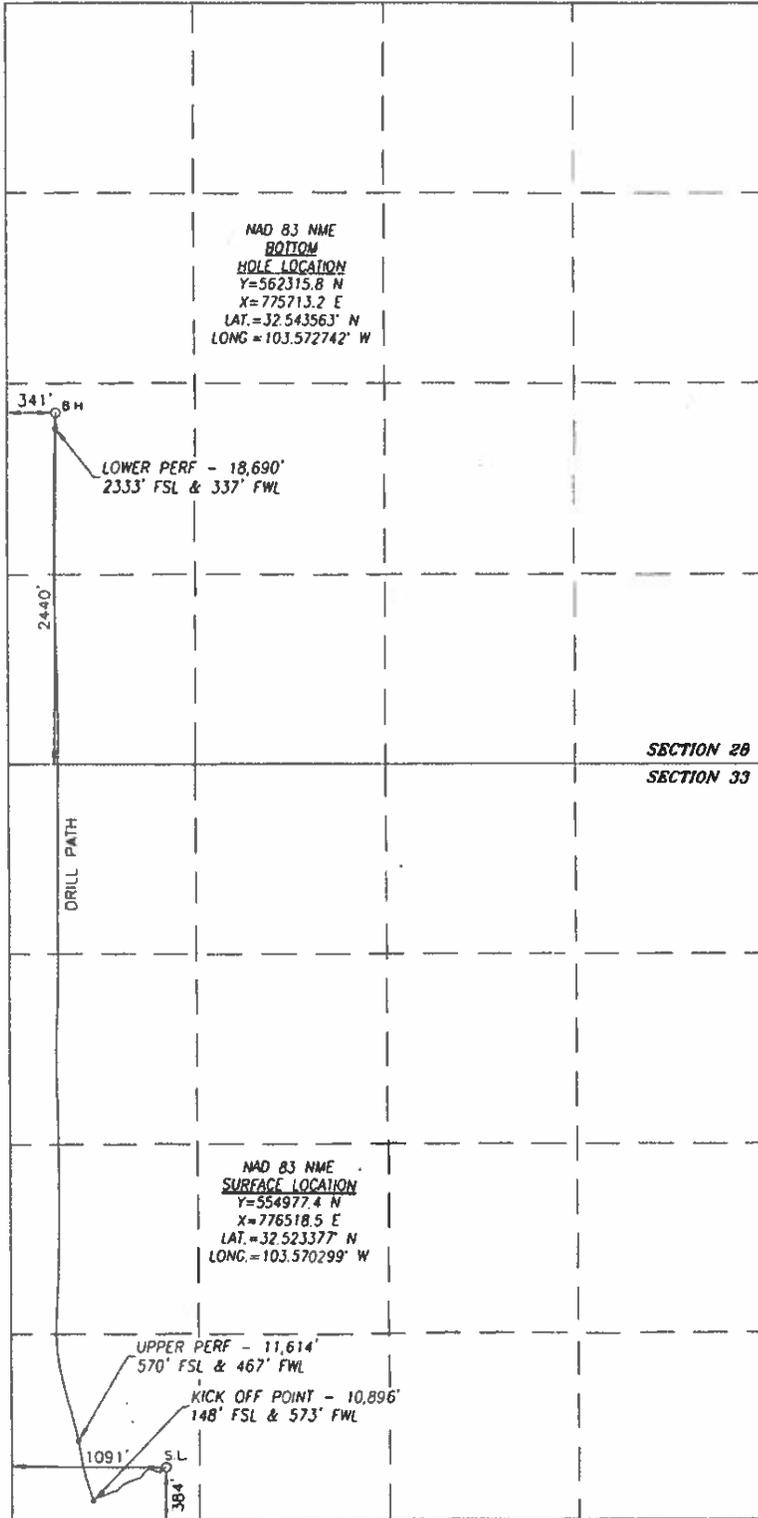
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	28	20-S	34-E		2440	SOUTH	341	WEST	LEA

Dedicated Acres 240	Joint or Infill	Consolidation Code	Order No.
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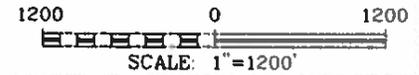
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SEE PAGE 2

Property Code 322258	Property Name LITTLE BEAR FEDERAL COM	Well Number 5H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3807.5'



BOREPATH SHOWN HEREON IS BASED ON DIRECTIONAL SURVEY REPORT PROVIDED BY COG OPERATING, LLC FOR THE LITTLE BEAR FEDERAL COM #5H SUPPLIED TO HARCROW SURVEYING, LLC ON JULY 1, 2019



**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.

*Bobbie Goodloe* 8-2019

Bobbie Goodloe  
Printed Name  
bgoodloe@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.

FEB. 14, 2018/OCT. 23, 2018  
Date of Survey/Date of Geographic Survey

Signature & Seal of Professional Surveyor



*Chad Hargrow* 7/22/19  
Certificate No. CHAD HARGROW 17777  
W.O. #19-1263 DRAWN BY: WN

**DISTRICT I**  
1625 N. FRENCH DR., HOBBS, NM 88240  
Phone: (575) 593-9191 Fax: (575) 593-9720

**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) 354-6176 Fax: (505) 354-6170

**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  
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1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

Form C-102  
Revised August 1, 2011  
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AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number 30-025-45105	Pool Code 98247	Pool Name WC-025 G-08 S203435D; WOLFCAMP
Property Code 322258	Property Name LITTLE BEAR FEDERAL COM	Well Number 9H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3804.5'

**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	33	20-S	34-E		384	SOUTH	1121	WEST	LEA

**Bottom Hole Location If Different From Surface**

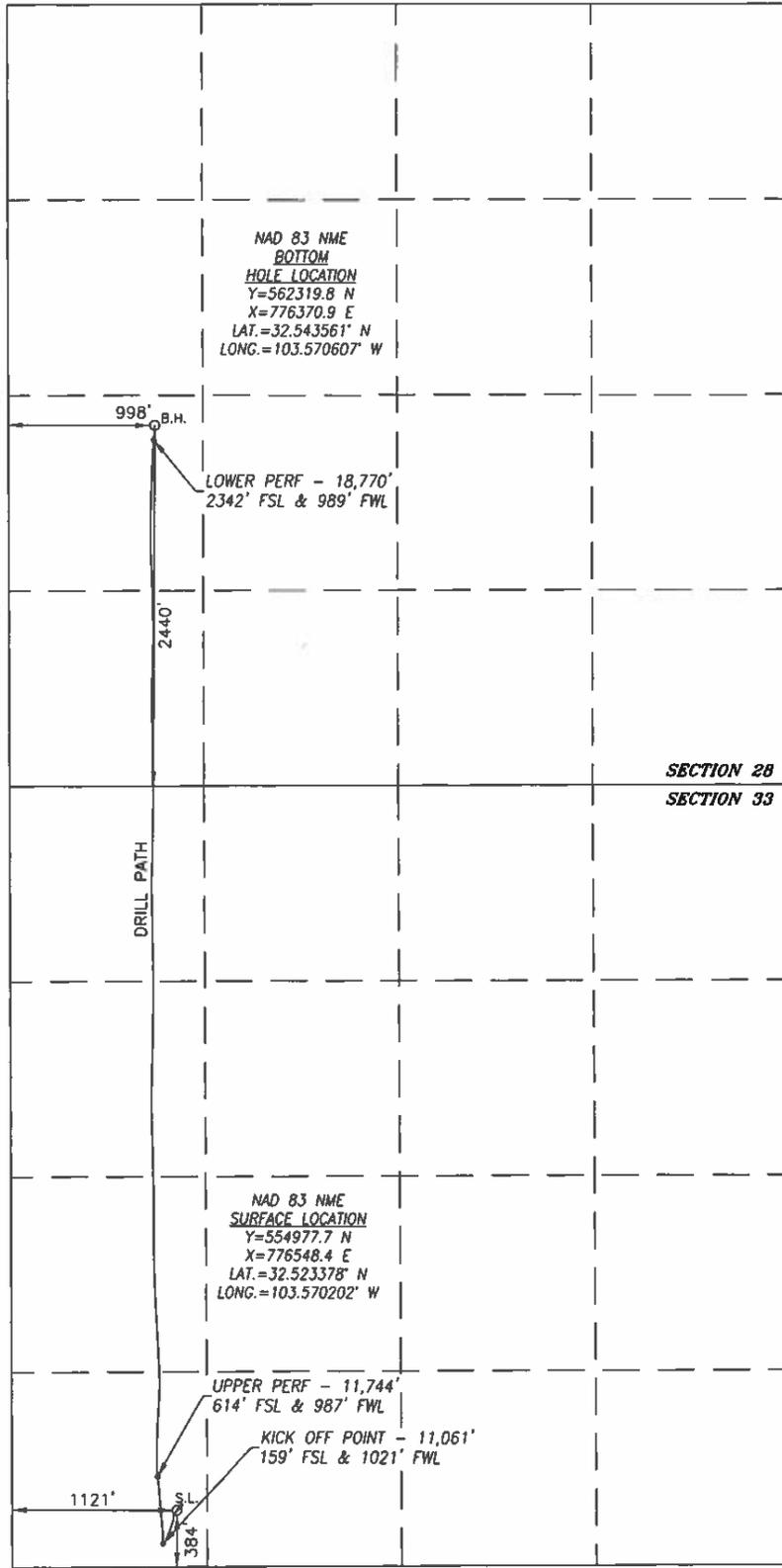
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	28	20-S	34-E		2440	SOUTH	998	WEST	LEA

Dedicated Acres 240	Joint or Infill	Consolidation Code	Order No.
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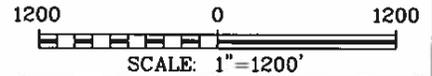
**NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION**

SEE PAGE 2

Property Code 322258	Property Name LITTLE BEAR FEDERAL COM	Well Number 9H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3804.5'



BOREPATH SHOWN HEREON IS BASED ON DIRECTIONAL SURVEY REPORT PROVIDED BY COG OPERATING, LLC FOR THE LITTLE BEAR FEDERAL COM #9H SUPPLIED TO HARCROW SURVEYING, LLC ON JULY 2, 2019



**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.

*Bobbie Goodloe* 8-2019

Signature Date

Bobbie Goodloe

Printed Name

bgoodloe@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.

FEB. 14, 2018/DEC. 27, 2018

Date of Survey/Date of Geographic Survey

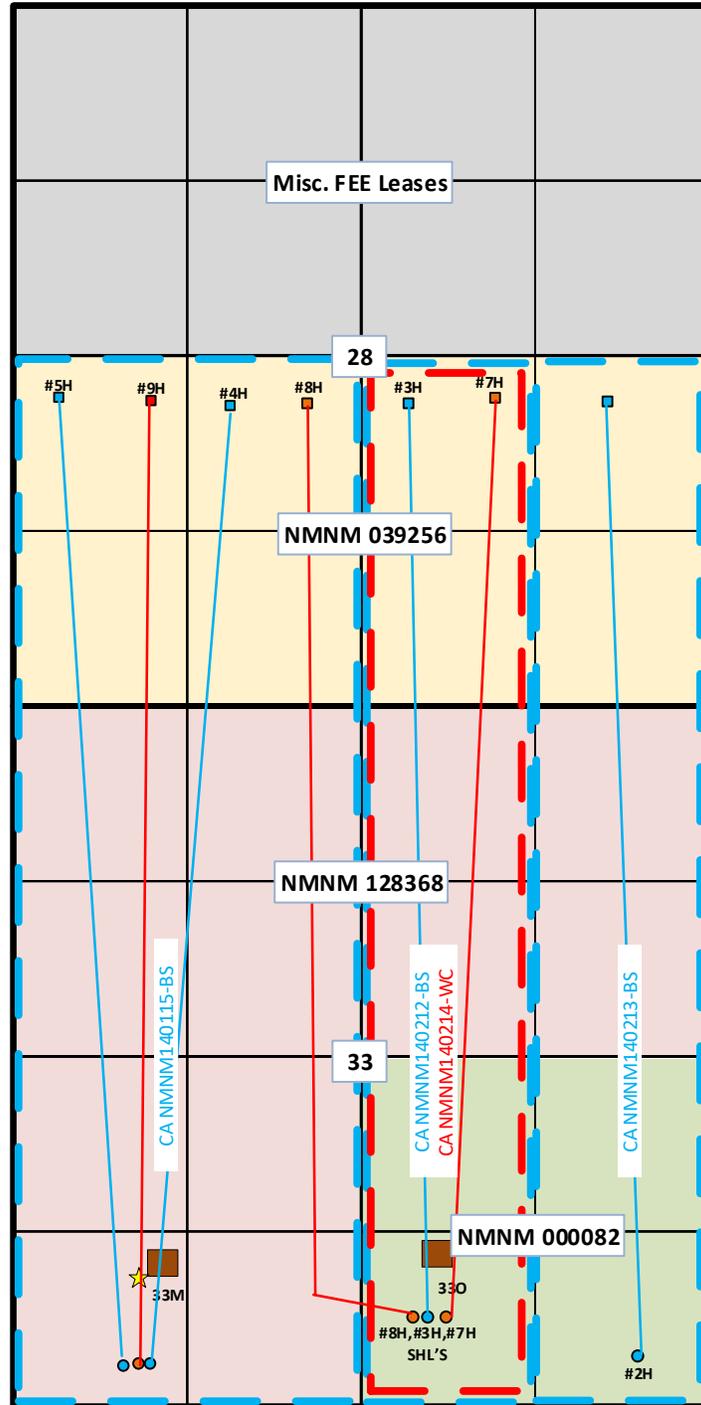
Signature & Seal of Professional Surveyor



*Chad Harcrow* 7/22/19

Certificate No. CHAD HARCROW 17777

# Little Bear Federal 33M & 33O CTB's



- Bone Spring SHL
- Bone Spring BHL
- Wolfcamp SHL
- Wolfcamp BHL
- CTB
- ★ GSM

**T20S-R34E**  
**Lea County, NM**

- Bone Spring CA's
- Wolfcamp CA'S

# Little Bear Fed 33M CTB

Little Bear Fed Com #4H, #5H, #9H  
Sec 33-T20S-R34E  
Lea County, NM

## Legend

-  Little Bear Fed 33M - Targa Gas Sales Meter #118001337
-  Little Bear Fed 33M CTB
-  Little Bear Fed Com SHL's

33

Little Bear Fed 33M CTB  Little Bear Fed 33M - Targa Gas Sales Meter #118001337

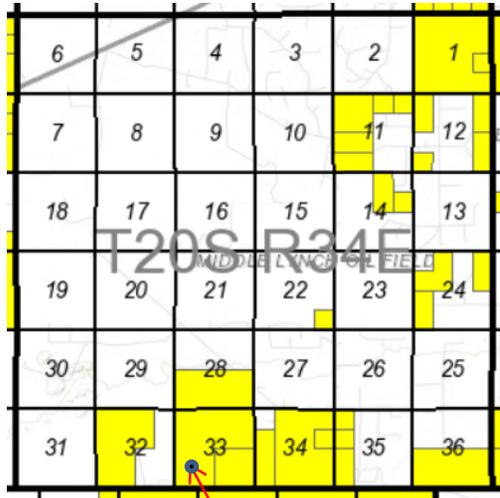
Little Bear Fed Com #5H - SHL  Little Bear Fed Com #9H - SHL  
Little Bear Fed Com #4H - SHL



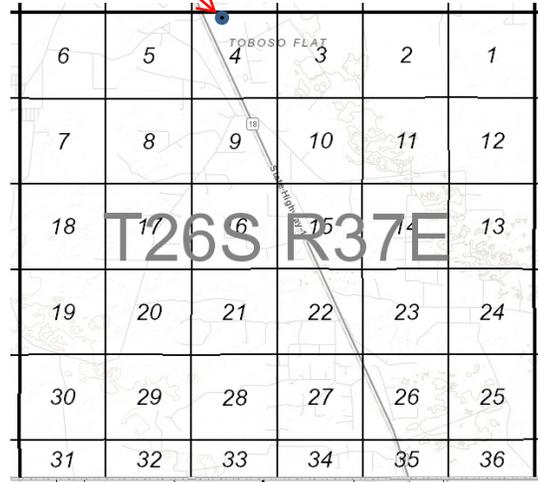
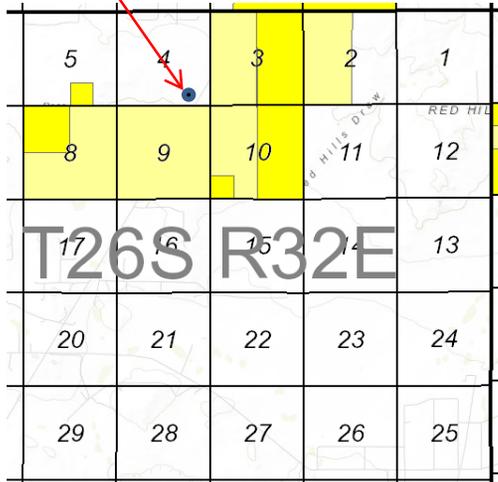
# Little Bear Federal 33M CTB (Little Bear Fed Com #4H, #5H & 9H) & Red Hills and Jal Offload Station Map

Red Hills Offload Station  
Lea County, NM

Jal Offload Station  
Lea County, NM



Little Bear Fed 33M CTB  
Lea County, NM



**LITTLE BEAR FEDERAL 33M CTB**  
 SECTION 33, T20S, R34E, UNIT M  
 COORDS: 32.525026, -103.570592  
 LEA COUNTY, NM

**WELLS:**  
 LITTLE BEAR FEDERAL COM #004H: 30-025-45100  
 LITTLE BEAR FEDERAL COM #005H: 30-025-45101  
 LITTLE BEAR FEDERAL COM #009H: 30-025-45105

**METERS**

#004H Gas Lift Meter: (L1): #39022618  
 #009H Gas Lift Meter: (L2): #39022620  
 #005H Gas Lift Meter: (L3): #39022619  
 HP Flare Gas Meter: (F1): #V25010-01.3  
 LP Flare Gas Meter: (F2): #FD40867A  
 Targa FMP Sales Gas Meter: (GS): #118001337  
 Targa Buy Back Gas Meter: (BB): #118100144

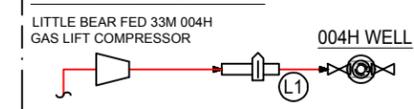
**ALLOC. METERS**

#004H Meters:  
 OIL (O1): #P1028916000  
 WATER (W1): #P3089D16000  
 GAS (G1): #39022562  
 #009H Meters:  
 OIL (O2): #P1028C16000  
 WATER (W2): #P3083C16000  
 GAS (G2): #39022564  
 #005H Meters:  
 OIL (O3): #P1028B16000  
 WATER (W3): #P402A516000  
 GAS (G3): #39022563

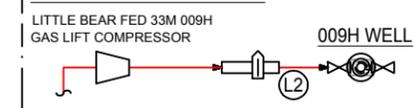
**FACILITY VOLUMES**

- OIL: 6,000 BPD  
 - WATER: 9,000 BPD  
 - GAS: 12 MMSCFD

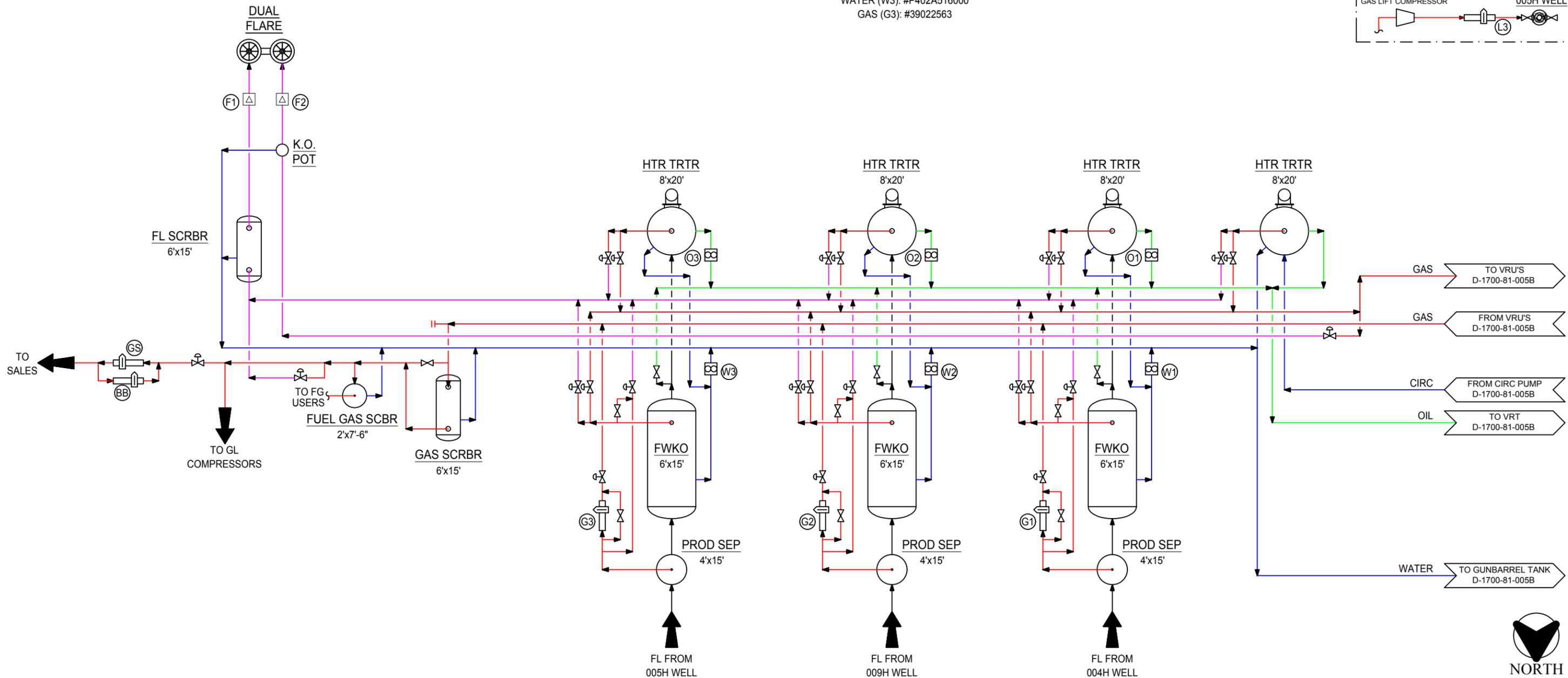
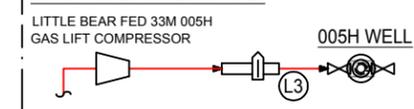
**NOT ON BATTERY PAD**



**NOT ON BATTERY PAD**



**NOT ON BATTERY PAD**



**NOTES:**

Type of Lease: Federal  
 State Lease #: N/A  
 Federal Lease #: NMNM128368 & NMNM0039256  
 CA/Agreement #: N/A  
 Property Code: 322258  
 OGRID #: 229137

**Ledger for Site Diagram**

Produced Fluid: —  
 Produced Oil: —  
 Produced Gas: —  
 Produced Water: —  
 Flare/Vent: —

**CONFIDENTIALITY NOTICE**

THIS DRAWING IS PROPERTY OF COG OPERATING LLC AND IS LENT TO THE BORROWER FOR CONFIDENTIAL USE ONLY AND IS SUBJECT TO RETURN UPON REQUEST AND SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY, NOR USED FOR ANY PURPOSE OTHER THAN THAT WHICH IT IS SPECIFICALLY FURNISHED.

**REFERENCE DRAWINGS**

NO.	TITLE
A	COG OPERATING LLC SITE SECURITY PLANS LOCATED AT:
B	ONE CONCHO CENTER 600 WEST ILLINOIS AVENUE MIDLAND, TEXAS 79701

**REVISIONS**

NO.	DATE	DESCRIPTION	BY	CHK.	APP.
A	02/25/19	ISSUED FOR REVIEW	JS	CB	
B	02/26/19	ISSUED PER PRELIM	JS	CB	
C	03/11/19	RE-ISSUED PER PRELIM	JS	CB	
D	05/17/19	REVISED PER AS-BUILT	JS	CB	

**ENGINEERING RECORD**

BY	DATE
DRN: JS	02/25/19
DES:	
CHK:	
APP:	
AFE NO:	
FACIL ENGR:	
OPER ENGR:	VARIES
SCALE:	NONE



NORTHERN DELAWARE BASIN ASSET  
 PRODUCTION FACILITIES  
 SITE FACILITY DIAGRAM  
 LITTLE BEAR FEDERAL 33M CTB

LEA COUNTY	NEW MEXICO
TWNESHIP/RANGE	DWG NO.
MULTIPLE	D-1700-81-005A (PAGE 1 OF 2)
	REV D



**LITTLE BEAR FEDERAL 33M CTB**  
 SECTION 33, T20S, R34E, UNIT M  
 COORDS: 32.525026, -103.570592  
 LEA COUNTY, NM

**WELLS:**  
 LITTLE BEAR FEDERAL COM #004H: 30-025-45100  
 LITTLE BEAR FEDERAL COM #005H: 30-025-45101  
 LITTLE BEAR FEDERAL COM #009H: 30-025-45105

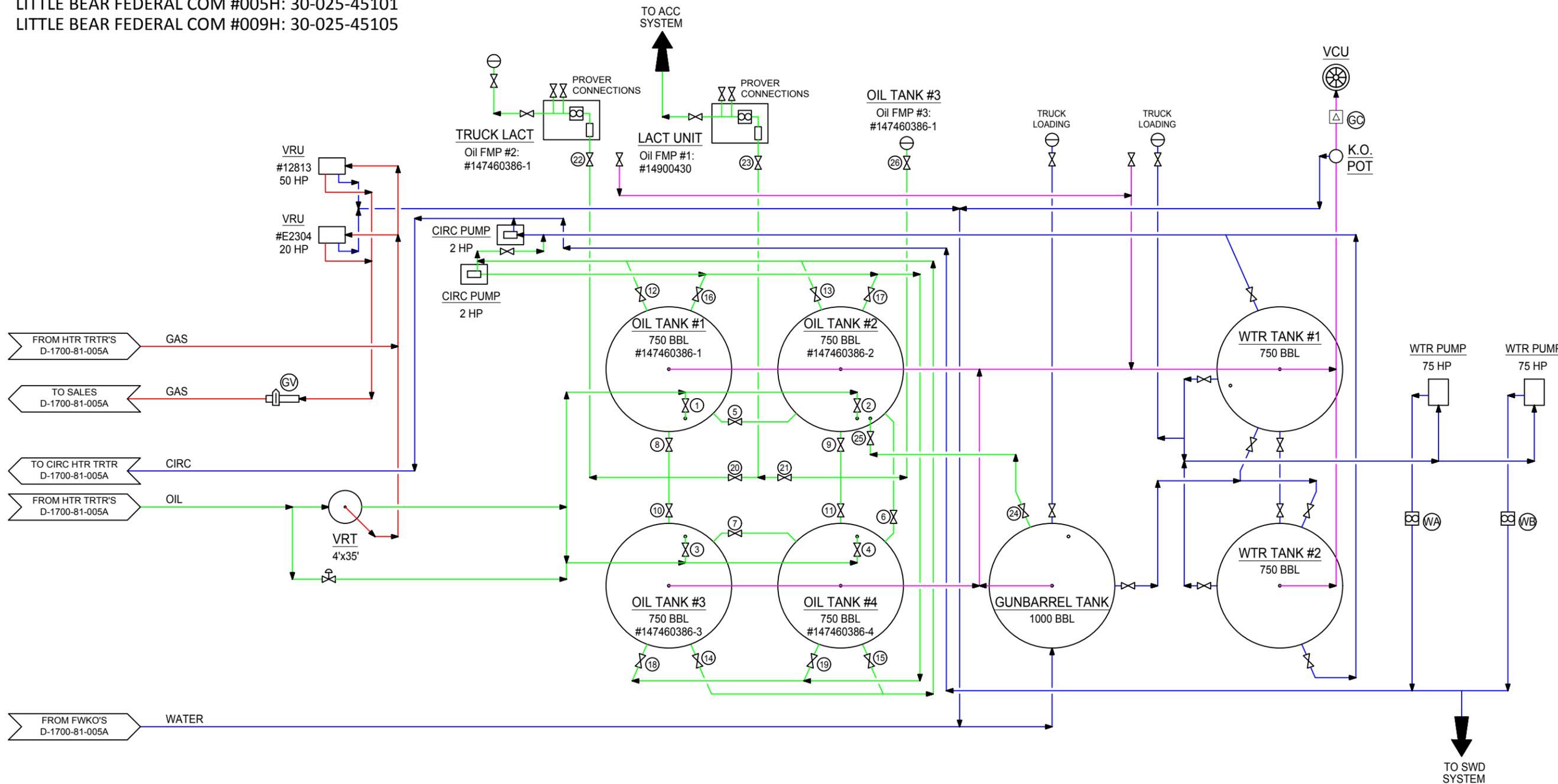
**GAS METERS**  
 VRU Gas Meter: (GV): #39022561  
 VCU Gas Meter: (GC): #FD39782A

**WATER METERS**  
 Water Transfer Meter: (WA): #NB061916000  
 Water Transfer Meter: (WB): #P308CB16000

**Production & Sales Phase - Oil Tank #2, #3, #4**  
 - Valve 1 and 2 closed  
 - Valves 3 thru 7 open  
 - Valves 8 and 9 closed  
 - Valves 10 and 11 open  
 - Valves 12 thru 19 closed  
 - Vales 20 and 22 thru 25 open  
 - Valve 21 and 26 closed

**Truck Sales Phase - Oil Tank #2, #3, #4**  
 - Valve 3, 10, 24, and 25 open  
 - All other valves closed

**FACILITY VOLUMES**  
 - OIL: 6,000 BPD  
 - WATER: 9,000 BPD  
 - GAS: 12 MMSCFD



**NOTES:**  
 Type of Lease: Federal  
 State Lease #: N/A  
 Federal Lease #: NMNM128368 & NMNM0039256  
 CA/Agreement #: N/A  
 Property Code: 322258  
 OGRID #: 229137

**Ledger for Site Diagram**  
 Produced Fluid: \_\_\_\_\_  
 Produced Oil: \_\_\_\_\_  
 Produced Gas: \_\_\_\_\_  
 Produced Water: \_\_\_\_\_  
 Flare/Vent: \_\_\_\_\_

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REFERENCE DRAWINGS		REVISIONS			ENGINEERING RECORD	
NO.	TITLE	NO.	DATE	DESCRIPTION	BY	DATE
A			02/25/19	ISSUED FOR REVIEW	JS CB	02/25/19
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C			03/11/19	RE-ISSUED PER PRELIM	JS CB	
D			05/17/19	REVISED PER AS-BUILT	JS CB	

COG OPERATING LLC  
 SITE SECURITY PLANS  
 LOCATED AT:

ONE CONCHO CENTER  
 600 WEST ILLINOIS AVENUE  
 MIDLAND, TEXAS 79701

ENGINEERING RECORD	
BY	DATE
DRN: JS	02/25/19
DES:	
CHK:	
APP:	
AFE NO:	
FACIL ENGR:	
OPER ENGR:	VARIABLES
SCALE:	NONE

**CONCHO**

NORTHERN DELAWARE BASIN ASSET  
 PRODUCTION FACILITIES  
 SITE FACILITY DIAGRAM  
 LITTLE BEAR FEDERAL 33M CTB

LEA COUNTY NEW MEXICO

TWNESHIP/RANGE: MULTIPLE  
 DWG NO.: D-1700-81-005B (PAGE 2 OF 2)  
 REV: D



### 30-025-45100 LITTLE BEAR FEDERAL COM #004H [322258]

#### General Well Information

<b>Operator:</b>	[229137] COG OPERATING LLC	<b>Direction:</b>	Horizontal
<b>Status:</b>	New	<b>Multi-Lateral:</b>	No
<b>Well Type:</b>	Oil	<b>Mineral Owner:</b>	Federal
<b>Work Type:</b>	New	<b>Surface Owner:</b>	Federal
<b>Surface Location:</b>	M-33-20S-34E 384 FSL 1151 FWL	<b>Sing/Mult Compl:</b>	Single
<b>Lat/Long:</b>	32.523378,-103.570105 NAD83	<b>Potash Waiver:</b>	False
<b>GL Elevation:</b>	3804		
<b>KB Elevation:</b>			
<b>DF Elevation:</b>			

#### [5535] BERRY; BONE SPRING, NORTH

<b>Status:</b>	New, Not Drilled	<b>Last Produced:</b>	
<b>Bottomhole Location:</b>	K-28-20S-34E 2440 FSL 1650 FWL		
<b>Lat/Long:</b>			
<b>Acreage:</b>	240 33-20S-34E Units: C F K N 28-20S-34E Units: K N		
<b>DHC:</b>		<b>Consolidation Code:</b>	
		<b>Production Method:</b>	

Earliest Production in OCD Records: 6/2019 Last 6/2019 [Show All Production](#)  [Export to Excel](#)

Time Frame	Production				Injection				
	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days P/I	Water(BBLS)	Co2(MCF)	Gas(MCF)	Other	Pressure
☐ 2019									
BERRY;BONE SPRING, NORTH									
Jun	6757	7758	36453	13	0	0	0	0	0

### 30-025-45101 LITTLE BEAR FEDERAL COM #005H [322258]

#### General Well Information

<b>Operator:</b>	[229137] COG OPERATING LLC	<b>Direction:</b>	Horizontal
<b>Status:</b>	New	<b>Multi-Lateral:</b>	No
<b>Well Type:</b>	Oil	<b>Mineral Owner:</b>	Federal
<b>Work Type:</b>	New	<b>Surface Owner:</b>	Federal
<b>Surface Location:</b>	L-33-20S-34E 384 FSL 1091 FWL		
<b>Lat/Long:</b>	32.523377,-103.570299 NAD83		
<b>GL Elevation:</b>	3808		
<b>KB Elevation:</b>		<b>Sing/Mult Compl:</b>	Single
<b>DF Elevation:</b>		<b>Potash Waiver:</b>	False

#### [5535] BERRY; BONE SPRING, NORTH

<b>Status:</b>	New, Not Drilled	<b>Last Produced:</b>	
<b>Bottomhole Location:</b>	L-28-20S-34E 2440 FSL 330 FWL		
<b>Lat/Long:</b>			
<b>Acreage:</b>	240 33-20S-34E Units: D E L M 28-20S-34E Units: L M		
<b>DHC:</b>		<b>Consolidation Code:</b>	
		<b>Production Method:</b>	

Earliest Production in OCD Records: 6/2019 Last 6/2019 [Show All Production](#) [Export to Excel](#)

Time Frame	Production				Injection				
	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days P/I	Water(BBLS)	Co2(MCF)	Gas(MCF)	Other	Pressure
☐ 2019									
BERRY;BONE SPRING, NORTH									
Jun	5598	6684	29649	13	0	0	0	0	0

### 30-025-45105 LITTLE BEAR FEDERAL COM #009H [322258]

#### General Well Information

<b>Operator:</b>	[229137] COG OPERATING LLC	<b>Direction:</b>	Horizontal
<b>Status:</b>	New	<b>Multi-Lateral:</b>	No
<b>Well Type:</b>	Oil	<b>Mineral Owner:</b>	Federal
<b>Work Type:</b>	New	<b>Surface Owner:</b>	Federal
<b>Surface Location:</b>	M-33-20S-34E 384 FSL 1121 FWL	<b>Sing/Mult Compl:</b>	Single
<b>Lat/Long:</b>	32.523378,-103.570202 NAD83	<b>Potash Waiver:</b>	False
<b>GL Elevation:</b>	3805		
<b>KB Elevation:</b>			
<b>DF Elevation:</b>			

#### [98247] WC-025 G-08 S203435D; WOLFCAMP

**Status:** New, Not Drilled **Last Produced:**

**Bottomhole Location:** L-28-20N-34E 2440 FSL 990 FWL

**Lat/Long:**

**Acreage:** 240 33-20S-34E Units: D E L M  
28-20N-34E Units: L M

Earliest Production in OCD Records: 6/2019 Last 6/2019 [Show All Production](#) [Export to Excel](#)

Time Frame	Production				Injection				
	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days P/I	Water(BBLS)	Co2(MCF)	Gas(MCF)	Other	Pressure
<div style="display: flex; justify-content: space-between; align-items: center;"> <span>☰ 2019</span> <span>WC-025 G-08 S203435D;WOLFCAMP</span> </div>									
Jun	6897	8071	39367	13	0	0	0	0	0

Form 3160-5  
(June 2015)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
NMNM128368

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
LITTLE BEAR FEDERAL COM 4H

9. API Well No.  
30-025-45100-00-X1

10. Field and Pool or Exploratory Area  
WILDCAT BONE SPRING

11. County or Parish, State  
LEA COUNTY, NM

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
COG OPERATING LLC  
Contact: BOBBIE GOODLOE  
E-Mail: bgoodloe@concho.com

3a. Address  
ONE CONCHO CENTER 600 W ILLINOIS AVENUE  
MIDLAND, TX 79701-4287

3b. Phone No. (include area code)  
Ph: 575-748-6952

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 33 T20S R34E SWSW 384FSL 1151FWL  
32.523376 N Lat, 103.570107 W Lon

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Production Facility Changes
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

COG OPERATING LLC RESPECTFULLY REQUESTS DESIGNATION OF OIL FACILITY MEASUREMENT POINTS FOR OUR LITTLE BEAR FEDERAL 33M CTB.

OIL FACILITY MEASUREMENT POINTS WILL BE LACT UNIT #14900430 AND TANK #1 AT THE BATTERY.

LITTLE BEAR FEDERAL COM #4H 30-025-45100  
LITTLE BEAR FEDERAL COM #5H 30-025-45101  
LITTLE BEAR FEDERAL COM #9H 30-025-45105

SEE ATTACHED SITE FACILITY DIAGRAM

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #478222 verified by the BLM Well Information System  
For COG OPERATING LLC, sent to the Hobbs  
Committed to AFMSS for processing by PRISCILLA PEREZ on 08/15/2019 (19PP2871SE)**

Name (Printed/Typed) BOBBIE GOODLOE	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 08/14/2019

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By <b>ACCEPTED</b>	DEBORAH MCKINNEY Title LEGAL INSTRUMENTS EXAMINER	Date 08/16/2019
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

Form 3160-5  
(June 2015)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
NMNM128368

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
LITTLE BEAR FEDERAL COM 4H

9. API Well No.  
30-025-45100-00-X1

10. Field and Pool or Exploratory Area  
WILDCAT BONE SPRING

11. County or Parish, State  
LEA COUNTY, NM

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
COG OPERATING LLC  
Contact: BOBBIE GOODLOE  
E-Mail: bgoodloe@concho.com

3a. Address  
ONE CONCHO CENTER 600 W ILLINOIS AVENUE  
MIDLAND, TX 79701-4287

3b. Phone No. (include area code)  
Ph: 575-748-6952

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 33 T20S R34E SWSW 384FSL 1151FWL  
32.523376 N Lat, 103.570107 W Lon

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Production Facility Changes
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

COG OPERATING LLC RESPECTFULLY REQUESTS DESIGNATION OF GAS FACILITY MEASUREMENT POINTS FOR OUR LITTLE BEAR FEDERAL 33M CTB.

TARGA GAS SALES METER #118001337 MEETS API AND AGA STANDARDS AND WILL MEASURE AND BE CALIBRATED ACCORDING TO ALL FEDERAL REQUIREMENTS AND REGULATIONS.

LITTLE BEAR FEDERAL COM #4H 30-025-45100  
LITTLE BEAR FEDERAL COM #5H 30-025-45101  
LITTLE BEAR FEDERAL COM #9H 30-025-45105

SEE ATTACHED SITE FACILITY DIAGRAM

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #478210 verified by the BLM Well Information System  
For COG OPERATING LLC, sent to the Hobbs  
Committed to AFMSS for processing by PRISCILLA PEREZ on 08/15/2019 (19PP2868SE)**

Name (Printed/Typed) BOBBIE GOODLOE	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 08/14/2019

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By <b>ACCEPTED</b>	DEBORAH MCKINNEY Title LEGAL INSTRUMENTS EXAMINER	Date 08/16/2019
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

**HOBBS NEWS SUN**  
**LEGAL NOTICES**

COG Operating LLC (COG), 2208 West Main, Artesia, New Mexico, 88210, has filed an application seeking administrative approval for a Central Tank Battery and commingling of oil and gas with the New Mexico Oil Conservation Division for the Little Bear Federal Com #4H, Little Bear Federal Com #5H and Little Bear Federal Com #9H wells. All wells are located in Section 33, Township 20 South, Range 34 East, Lea County, New Mexico. COG is seeking approval to commingle the oil and gas production of these three wells at the Little Bear Federal 33M CTB, located in UL M, Section 33-T20S-R34E, Lea County, and in the event the CTB is over capacity or in the case of battery or pipeline repairs, approval for off-lease measurement of the oil at the Red Hills Off-load Station in Unit O, Section 4-T26S-R32E or Jal Off-load Station in Unit D, Section 4-T26S-R37E, Lea County, NM. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Street, Santa Fe, New Mexico, 87505, within ten (10) days of this notice. Any interested party with questions or comments may contact Danny Kidwell (432) 685-2535 [dkidwell@concho.com](mailto:dkidwell@concho.com) at COG Operating LLC, 600 West Illinois, Midland, Texas 79701.

Published in the Hobbs News Sun, Hobbs, New Mexico \_\_\_\_\_, 2019.

**Little Bear Federal 33M CTB**  
**Little Bear Federal Com #4H 30-025-45100**  
**Little Bear Federal Com #5H 30-025-45101**  
**Little Bear Federal Com #9H 30-025-45105**  
**Application for Pool/Lease Commingle & Off Lease Measurement**  
**Notification List**

<b>Date Sent</b>	<b>Initials</b>	<b>Sent Certified Return Receipt to:</b>	<b>Receipt No.</b>	<b>Rec'd</b>
11/4/2019	BJG	Blue Door, Inc., 555 17th Street, Ste 1400, Denver, CO 80202	7017-3040-0000-1205-3771	
11/4/2019	BJG	EOG Resources Inc., 5509 Champions Drive, Midland, TX 79706	7017-3040-0000-1205-3764	
	BJG	*Heirs or Devises of F.L. Nohl et ux Margaret H. Nohl **No address**		

Mailed by

Bobbie J Goodloe

