

RECEIVED: 05/01/2019	REVIEWER: MAM	TYPE: CTB	APP NO: pMAM1912137017
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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

Applicant: <u>COG Operating LLC</u>	OGRID Number: <u>229137</u>
Well Name: <u>Huckleberry State Com 501H & others</u>	API: <u>30-025-45231 & others</u>
Pool: <u>WC-025 G-08 S213304D; Bone Spring</u>	Pool Code: <u>97895</u>

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

CTB-899

- 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

- 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

FOR OCD ONLY

- ☐ Notice Complete
- ☐ Application
Content
Complete

- 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.

Deborah L. Wilbourn

Print or Type Name

Signature

4/30/19
 Date
575-748-6958

Phone Number

dwilbourn@concho.com

e-mail Address

McMillan, Michael, EMNRD

From: Debora Wilbourn <DWilbourn@concho.com>
Sent: Wednesday, May 1, 2019 8:52 AM
To: McMillan, Michael, EMNRD
Cc: Cody Blair; Debora Wilbourn
Subject: [EXT] Huckleberry Sate Com 501H-507H CTB & OLM Application
Attachments: Huckleberry State Com 501H-507H CTB - NMOCD Application.pdf

Good morning Mike,

Attached is COG's application for CTB & OLM for the referenced wells. Please let me know if you need anything further.

Thanks,

Debora L. Wilbourn

Production Compliance Lead

dwilbourn@concho.com

O - 575.748.6958

C - 575-513-0168

Concho - Artesia West | 2208 W Main St | Artesia, NM | 88210-3720 | 575.748.6940





April 30, 2019

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

RE: Application for CTB and Off-lease Measurement

Huckleberry State Com 501H, API# 30-025-45231, Ut. A, Sec. 27-T21S-R33E, Lea County, NM
Huckleberry State Com 502H, API# 30-025-45232, Ut. B, Sec. 27-T21S-R33E, Lea County, NM
Huckleberry State Com 503H, API# 30-025-45233, Ut. B, Sec. 27-T21S-R33E, Lea County, NM
Huckleberry State Com 504H, API# 30-025-45234, Ut. C, Sec. 27-T21S-R33E, Lea County, NM
Huckleberry State Com 505H, API# 30-025-45207, Ut. D, Sec. 27-T21S-R33E, Lea County, NM
Huckleberry State Com 506H, API# 30-025-45208, Ut. D, Sec. 27-T21S-R33E, Lea County, NM
Huckleberry State Com 507H, API# 30-025-45209, Ut. D, Sec. 27-T21S-R33E, Lea County, NM

Dear Mr. McMillan,

COG Operating LLC (COG), respectfully requests approval for surface lease commingling (CTB) and off-lease measurement of oil and gas for the referenced wells.

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. Proof of owner notification is enclosed.

Please see the following enclosed documents: Administrative Application Checklist, C-107B Application for Surface Commingling, C-102 plats for referenced wells, lease map depicting communitization agreement boundaries with associated wellbores, facility imagery map, oil offload station map, and expected rate of decline data.

Facility Information:

COG proposes to construct the Huckleberry State Com 22 "N" CTB, which will utilize a bulk production separator and two test separators. This facility, as indicated by its name, is located in Section 22, Unit "N" of T21S-R33E. Automated periodic well tests will be used to allocate production back to diversely owned wells feeding into the facility. COG is proposing this facility plan due to the considerable cost

April 30, 2019

NM Oil Conservation Division

for the additional separators or multiphase meters that would be required to provide constant metering for the diverse ownership wells.

Meeting our design criteria at peak production rates for individual wells would require an over-designed facility that would only be fully utilized for a few months, due to the expected rapid decline of production. The wells would, in most cases, begin production at staggered intervals, therefore production equipment designed around the concept of well testing is most efficient. This testing method will increase the likelihood of proper design and utilization of the Coriolis and gas meters. The sizing and application of COG's proposed design will accommodate slug flow and sand production which is common in the early life of Bone Spring horizontal wells.

COG's proposed well testing methodology exceeds API MPMS 20.1 standards in both frequency and accuracy. Well testing frequency will be defined by the peak production case and will be maintained throughout the life of the wells by utilizing an automated test header.

Oil Production:

Oil production will be measured at each test vessel using Coriolis meters, then all oil streams will be combined to go to the facility's storage tanks. The oil in the tanks will be inventoried, then sold using a Coriolis pipeline LACT owned by Plains Pipeline that is located at the facility. Coriolis meters will be utilized for both custody transfer and allocation of the oil from the diverse ownership wells. 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 on-lease tanks are 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:

Gas production will be measured at each test vessel using orifice plate gas allocation meters, then all gas streams will be combined to go to the gas sales meter owned by Targa Resources. Orifice meters will be utilized for both custody transfer and allocation of the gas from the diverse ownership wells.

Production Decline Data:

The decline life cycle of these Bone Spring Horizontal wells would be partitioned into four stages beginning with the flowback after fracturing to shortly after peak production rate. Testing based on API MPMS 20.1 for each of these stages would require wells be tested at differing frequencies for optimum accuracy. For example, the early time stage could need more frequent testing of that well to accurately

April 30, 2019

NM Oil Conservation Division

utilize well tests to allocate monthly production volumes among all wells being commingled prior to sales.

The wells included in this commingle application consist of hyperbolically declining horizontally drilled Bone Spring wells. Concho Resources is proposing Range 1 as the period during initial flowback until shortly after peak production rate. Range 2 would be from shortly after peak production until the end of month 3. Range 3 would be months 4-12, and range four would be the remaining life of the well. Based on production rates, the frequency of the tests could be decreased as the well progressed through the ranges, with Range 1 requiring the most frequent testing and Range 4 requiring the least. However, by taking advantage of our automated test header equipment, COG plans to maintain the highest well test frequency throughout the life of the well to ensure well test accuracy.

Thank you for your attention to this matter. If you have questions or need further information, please email me at dwilbourn@concho.com or call 575.748.6958.

Sincerely,

A handwritten signature in blue ink that reads "Debora L. Wilbourn". The signature is fluid and cursive, with the first name being the most prominent.

Debora L. Wilbourn

Production Compliance Lead

Enclosures

xc: Hobbs OCD

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 St, 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. _____

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

(2) Are any wells producing at top allowables? ☐ Yes ☐ No

(3) Have 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) Have all interest owners been notified by certified mail of the proposed commingling? ☒ Yes ☐ No

(4) Measurement type: ☐ Metering ☒ Other (Specify) Well Tests

(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: Debora L. Wilbourn

TITLE: REGULATORY ANALYST

DATE: 4/30/19

TYPE OR PRINT NAME: DEBORA L. WILBOURN TELEPHONE NO.: 575-748-6958 E-MAIL ADDRESS: dwilbourn@concho.com

DISTRICT IV
1220 E. ST. FRANCIS DR., SANTA FE, NM 87506
Phone: (505) 476-3460 Fax: (505) 476-3462

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

□ AMENDED REPORT

NO LEASE X-ING

NAD 83 NME
PROPOSED BOTTOM
HOLE LOCATION
Y=541238.2 N
X=781336.4 E
LAT.=32.485519° N
LONG.=103.554994° W

SECTION 18
SECTION 28

SECTION 27
SECTION 29

PROJECT AREA
PRODUCING AREA

Y=541437.3 N
X=780998.1 E

Y=541440.8 N
X=782324.7 E

LTP
330' FNL & 990' FEL
Y=541108.2 N
X=781337.4 E
LAT.=32.485162° N
LONG.=103.534994° W

GRID AZ. - 359°32'58"
HORZ. DIST. - 10020.8'

Y=530886.0 N
X=781080.5 E

Y=530892.8 N
X=782407.7 E

330' FSL & 990' FEL
Y=531217.7 N
X=781415.2 E
LAT.=32.457976° N
LONG.=103.554976° W
GRID AZ. TO LTP
34°48'28"

NAD 83 NME
SURFACE LOCATION
Y=530741.0 N
X=781083.8 E
LAT.=32.456672° N
LONG.=103.556061° W

145' S.L. 1325'

CHAD L. HARCROW
NEW MEXICO
17777
LICENSED PROFESSIONAL SURVEYOR

AUGUST 1, 2018

DATE OF SURVEY

SIGNATURE & SEAL OF PROFESSIONAL SURVEYOR

CHAD L. HARCROW
NEW MEXICO
17777
LICENSED PROFESSIONAL SURVEYOR

CERTIFICATE NO. CHAD HARCROW 17777
W.O. # 18-836 DRAWN BY: JH

DISTRICT I
1625 N. VANCE DR., HOHNS, NM 86840
Phone: (575) 393-6161 Fax: (575) 393-6780

DISTRICT II
811 E. FIRST ST., ARTESIA, NM 86810
Phone: (505) 748-1223 Fax: (505) 748-9720

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

DISTRICT IV
1250 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-5400 Fax: (505) 476-5408

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 30-025-45232	Pool Code 97895	Pool Name WC-025 G-08 S213304D; Bone Spring
Property Code 322447	Property Name HUCKLEBERRY STATE COM	Well Number 502H
OGRI No. 229137	Operator Name COG OPERATING, LLC	Elevation 3764.8'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	27	21-S	33-E		145	NORTH	1355	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	15	21-S	33-E		200	NORTH	1650	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

**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**

<p>NO LEASE X-ING</p> <p>NAD 83 NME <u>PROPOSED BOTTOM HOLE LOCATION</u> Y=541236.4 N X=780676.4 E LAT.=32.485527° N LONG.=103.557135° W</p> <p>NAD 83 NME <u>SURFACE LOCATION</u> Y=530740.8 N X=781053.8 E LAT.=32.456672° N LONG.=103.556159° W</p>		<p>OPERATOR CERTIFICATION</p> <p>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.</p> <p><i>Debora L. Wilbourn</i> Signature Date <u>4/30/18</u></p> <p><u>Debora L. Wilbourn</u> Printed Name</p> <p><u>dwillbourn@concho.com</u> E-mail Address</p> <p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>AUGUST 1, 2018 Date of Survey</p> <p>Signature & Seal of Professional Surveyor</p> <p> Chad L. Harcrow 8/15/18 Certificate No. CHAD HARCROW 17777 W.O. # 18-835 DRAWN BY: JH</p>
--	--	---

DISTRICT I
1825 N. VANCE DR., BOBBS, NM 86240
Phone: (505) 334-6181 Fax: (505) 334-6178

DISTRICT II
511 S. FIRST ST., ARTESIA, NM 86210
Phone: (505) 748-1255 Fax: (505) 748-9720

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

DISTRICT IV
1825 N. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-5400 Fax: (505) 476-5405

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 30-025-45233	Pool Code 97895	Pool Name WC-025 G-08 S213304D; Bone Spring
Property Code 322447	Property Name HUCKLEBERRY STATE COM	Well Number 503H
OGRI No. 229137	Operator Name COG OPERATING, LLC	Elevation 3743.9'

Surface Location

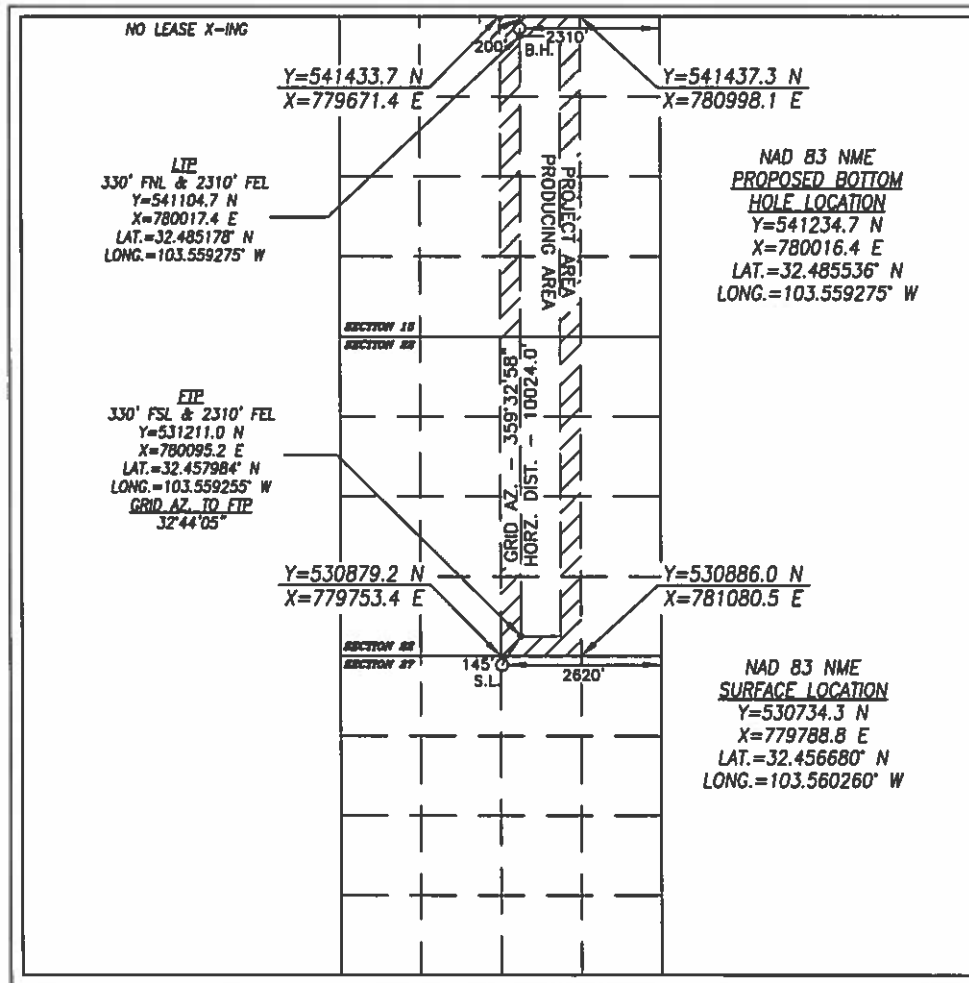
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	27	21-S	33-E		145	NORTH	2620	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	15	21-S	33-E		200	NORTH	2310	EAST	LEA

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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**NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION**



OPERATOR CERTIFICATION

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

Signature Debora L. Wilbourn Date 4/30/19

Printed Name Debora L. Wilbourn

E-mail Address dwlbourn@concho.com

SURVEYOR CERTIFICATION

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

AUGUST 1, 2018

Date of Survey

Signature & Seal of Professional Surveyor

CHAD L. HARCROW
NEW MEXICO
17777
LICENSED PROFESSIONAL SURVEYOR
8/15/18
Certificate No. CHAD HARCROW 17777
W.O. # 18-838 DRAWN BY: JH

DISTRICT I
1925 N. FRENCH DR., BOBBS, NM 86840
Phone: (575) 362-6141 Fax: (575) 362-0780

DISTRICT II
511 E. FIRST ST., ARTESIA, NM 86210
Phone: (575) 748-1883 Fax: (575) 748-9780

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

DISTRICT IV
1250 S. ST. FRANCIS DR., SANTA FE, NM 87506
Phone: (505) 476-3480 Fax: (505) 476-3488

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-45234	Pool Code 97895	Pool Name WC-025 G-08 S213304D; Bone Spring
Property Code 322447	Property Name HUCKLEBERRY STATE COM	Well Number 504H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3741.6'

Surface Location

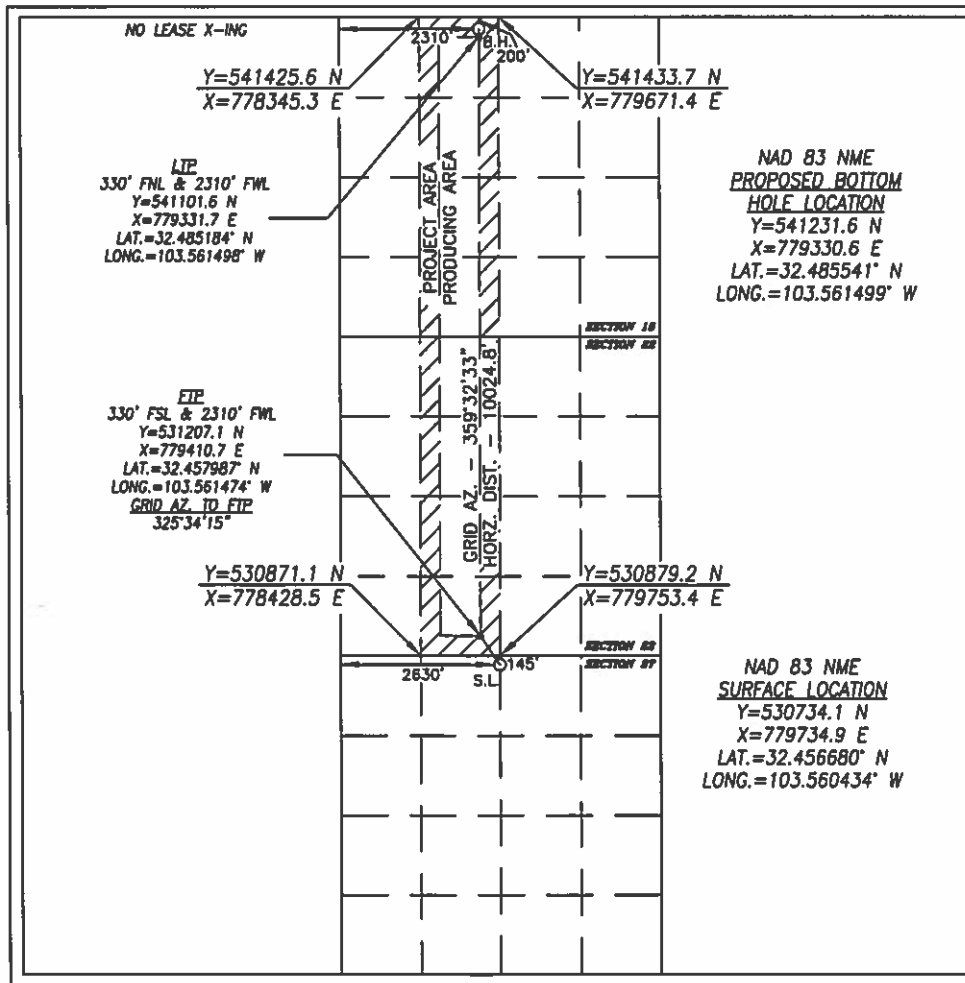
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	27	21-S	33-E		145	NORTH	2630	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	15	21-S	33-E		200	NORTH	2310	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

**NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION**



OPERATOR CERTIFICATION

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

Debra L. Wilbourn
Signature Date **4/30/19**

Debra L. Wilbourn

Printed Name

dwlilbourn@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.

AUGUST 1, 2018

Date of Survey

Signature & Seal of Professional Surveyor



Chad Harcrow **8/15/18**
Certificate No. **CHAD HARCROW 17777**
W.O. # **18-837** DRAWN BY: **JH**

DISTRICT I
1625 N. FRANKLIN DR., BOBBS, NM 88240
Phone: (575) 369-8181 Fax: (575) 369-8780

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1883 Fax: (575) 748-8780

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-45207	Pool Code 97895	Pool Name WC-025 G-08 S213304D; Bone Spring
Property Code 322447	Property Name HUCKLEBERRY STATE COM	Well Number 505H
OGRI No. 229137	Operator Name COG OPERATING, LLC	Elevation 3716.1'

Surface Location

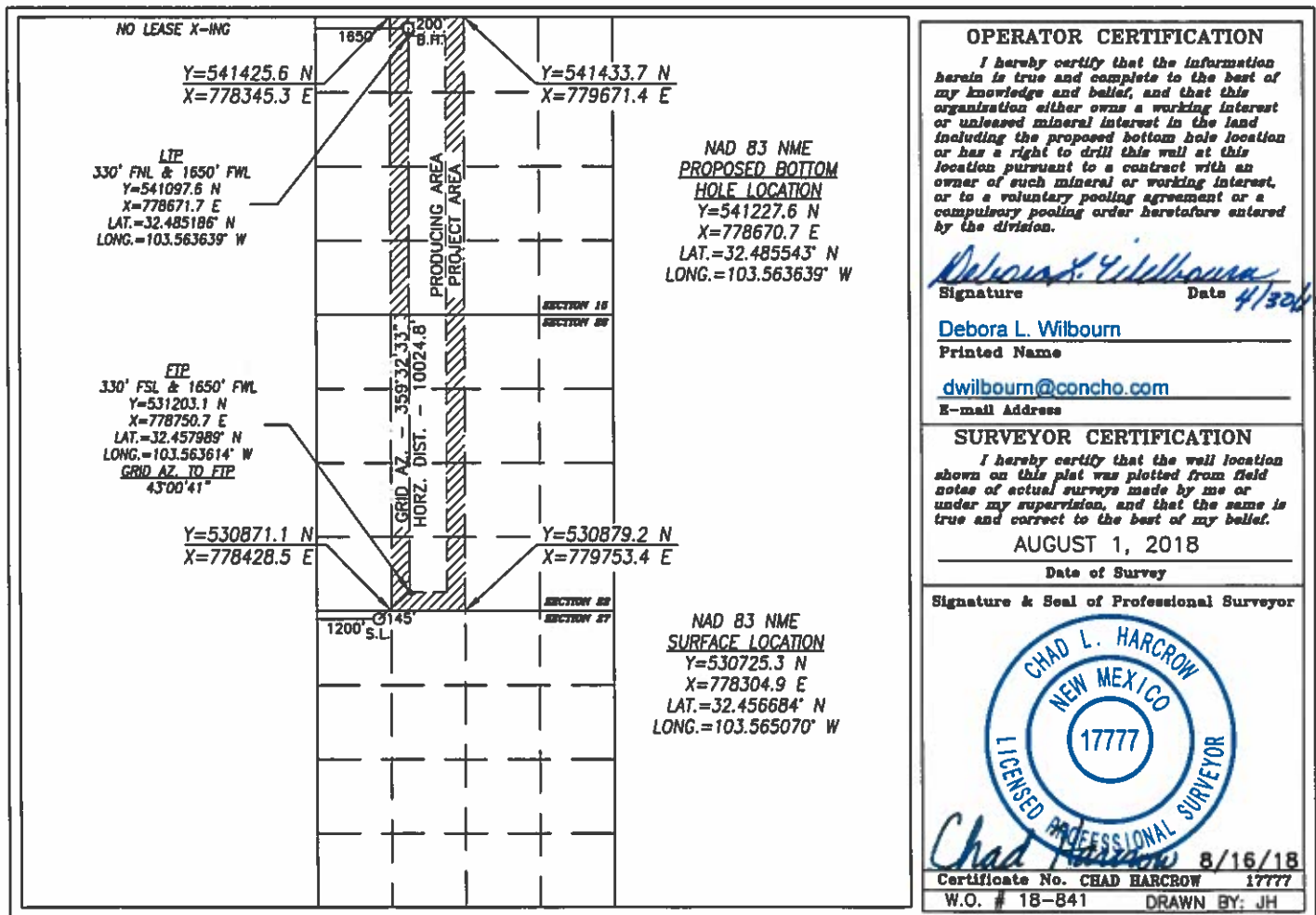
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	27	21-S	33-E		145	NORTH	1200	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	15	21-S	33-E		200	NORTH	1650	WEST	LEA

Dedicated Acres 320	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**



DISTRICT I
1825 N. FRENCH DR., HOHNS, NM 88340
Phone: (575) 333-0161 Fax: (575) 333-0780

DISTRICT II
611 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1853 Fax: (575) 748-9780

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-0178 Fax: (505) 334-0170

DISTRICT IV
1250 S. ST. FRANCIS DR., SANTA FE, NM 87506
Phone: (505) 476-5400 Fax: (505) 476-5408

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 30-025-45208	Pool Code 97895	Pool Name WC-025 G-08 S213304D; Bone Spring
Property Code 322447	Property Name HUCKLEBERRY STATE COM	Well Number 506H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3715.5'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	27	21-S	33-E		145	NORTH	1170	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	15	21-S	33-E		200	NORTH	990	WEST	LEA

Dedicated Acres 320	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**

	<p>NAD 83 NME <u>PROPOSED BOTTOM HOLE LOCATION</u> Y=541223.5 N X=778010.7 E LAT.=32.485545° N LONG.=103.565779° W</p>	<p>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.</p> <p><i>Debora L. Wilbourn</i> Signature Date <u>4/30/18</u></p> <p>Debora L. Wilbourn Printed Name dwilbourn@concho.com E-mail Address</p>
	<p>NAD 83 NME <u>SURFACE LOCATION</u> Y=530725.1 N X=778275.0 E LAT.=32.456684° N LONG.=103.565167° W</p>	<p>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.</p> <p>AUGUST 1, 2018 Date of Survey</p> <p>Signature & Seal of Professional Surveyor</p> <p> Chad L. Harcrow Certificate No. CHAD HARCROW 17777 W.O. # 18-840 DRAWN BY: JH</p>

DISTRICT I
1625 N. FRENCH DR., BOBBS, NM 88240
Phone: (575) 893-6181 Fax: (575) 893-0720

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

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

DISTRICT IV
1850 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-45209	Pool Code 97895	Pool Name WC-025 G-08 S213304D; Bone Spring
Property Code 322447	Property Name HUCKLEBERRY STATE COM	Well Number 507H
GRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3714.8'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	27	21-S	33-E		145	NORTH	1140	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	15	21-S	33-E		200	NORTH	330	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

**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=541219.4 N
X=777350.7 E
LAT.=32.485547° N
LONG.=103.567920° W

**NAD 83 NME
SURFACE LOCATION**
Y=530725.0 N
X=778244.9 E
LAT.=32.456685° N
LONG.=103.565265° 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.

Debora L. Wilbourn
Signature Date 4/30/18

Debora L. Wilbourn
Printed Name

dwilbourn@concho.com
E-mail Address

SURVEYOR CERTIFICATION

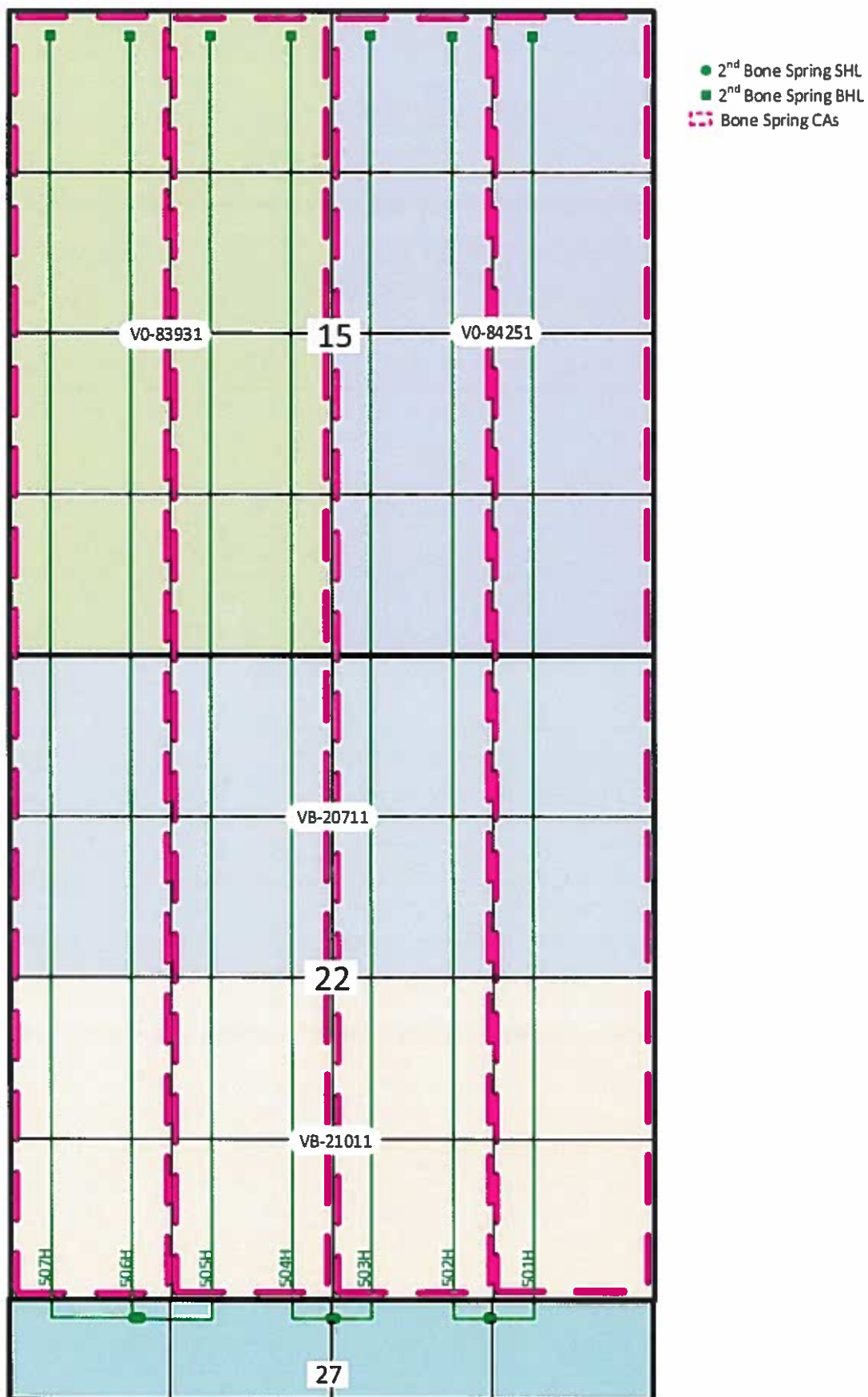
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

AUGUST 1, 2018
Date of Survey

Signature & Seal of Professional Surveyor

Chad L. Harcrow
Professional Surveyor
NEW MEXICO
17777
8/16/18
Certificate No. CHAD HARCROW 17777
W.O. # 18-839 DRAWN BY: JH

Huckleberry State Com Wells



Sec. 15, 22, 27-T21S-R33E
Lea County, NM

HUCKLEBERRY STATE 22 N CTB

SECTION 22, T21S, R33E, UNIT N
COORDS: 32.458055, -103.562222

LEA COUNTY, NM

WELLS:

HUCKLEBERRY STATE COM #501H: 30-025-45231
HUCKLEBERRY STATE COM #502H: 30-025-45232
HUCKLEBERRY STATE COM #503H: 30-025-45233
HUCKLEBERRY STATE COM #504H: 30-025-45234
HUCKLEBERRY STATE COM #505H: 30-025-45207
HUCKLEBERRY STATE COM #506H: 30-025-45208
HUCKLEBERRY STATE COM #507H: 30-025-45209

Production Phase - Oil Tank #1

- Valve 1 open
- Valves 2, 3, and 4 closed
- Valves 5, 6, 7, and 8 open
- Valves 9, 10, 11, and 12 closed
- Valve 13 open
- Valves 14, 15, and 16 closed

Sales Phase - Oil Tank #1

- Valve 1 closed
- Valves 2, 3, or 4 open
- Valve 5 closed
- Valves 6, 7, and 8 open
- Valve 9 open
- Valves 10, 11, and 12 closed
- Valve 13 closed
- Valves 14, 15, or 16 open

(ON HOLD)

NORTH



NOTES:

Type of Lease: State
State Lease #: VB-21011, VB-20711, V0-83931, V0-84251

Federal Lease #: N/A

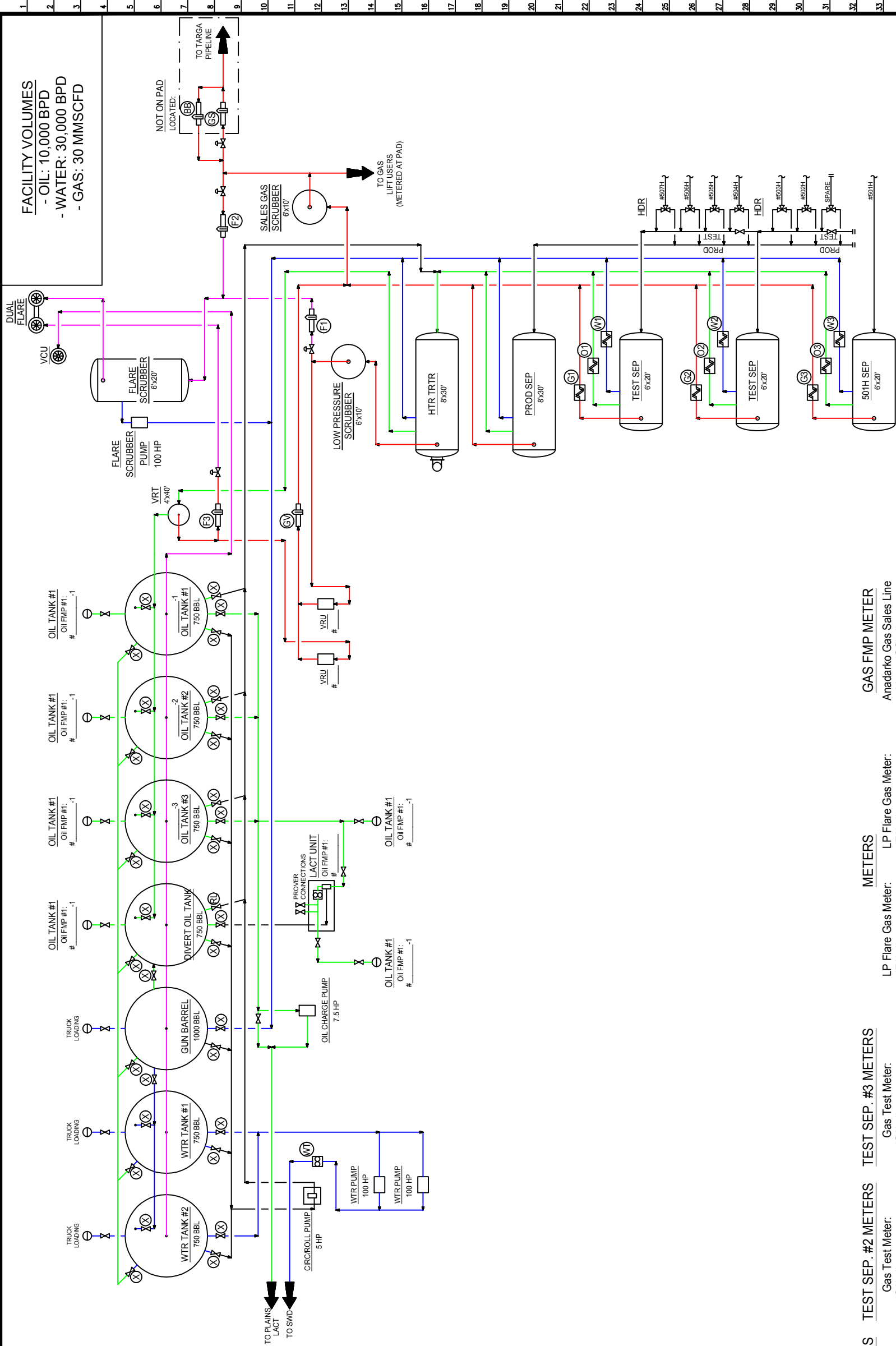
CA/Agreement #: N/A

Property Code: 322447

OGRID #: 229137

10

A



GAS FMP METER

Anadarko Gas Sales Line
 Meter (GS): # _____
 Anadarko Buy Back Gas Sales Line
 Meter (BB): # _____

METERS

LP Flare Gas Meter: _____
(F1): # _____

LP Flare Gas Meter: _____
(F3): # _____

HP Flare Gas Meter: _____
(F2): # _____

VRU/Booster Gas Meter: _____
(GV): # _____

Water Transfer Meter: _____
(WT): # _____

TEST SEP. #3 METERS

Gas Test Meter:
(G3): # _____

Oil Test Meter:
(O3): # _____

Water Test Meter:
(W3): # _____

TEST SEP. #2 METERS

Gas Test Meter: (G1): #	Gas Test Meter: (G2): #
Oil Test Meter: (O1): #	Oil Test Meter: (O2): #
Water Test Meter: (W1): #	Water Test Meter: (W2): #

TEST SEP. #1 METERS

Gas Test Meter:
(G1): # _____

Oil Test Meter:
(O1): # _____

Water Test Meter:
(W1): # _____

NOTES:

Type of Lease: State

State Lease #: VB-21011, VB-20711, V0-83931, V0-84251

Federal Lease #: N/A

CA/Agreement #: N/A

Property Code: 32

10

A

	NORTHERN DELAWARE BASIN ASSET PRODUCTION FACILITIES SITE FACILITY DIAGRAM HUCKLEBERRY STATE 22 N CTB NEW MEXICO		41 REV
	LEA COUNTY	DWG NO.	D-1700-81-005 MULTIPLE

[illegible]

NOTES:

Type of Lease: State	
State Lease #: VB-21011, VB-20711, VB-83931, VB-84251	
Federal Lease #: N/A	
CA/Agreement #: N/A	
Property Code: 322447	
OGRID #: 229137	

Ledger for Site Diagram

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

3

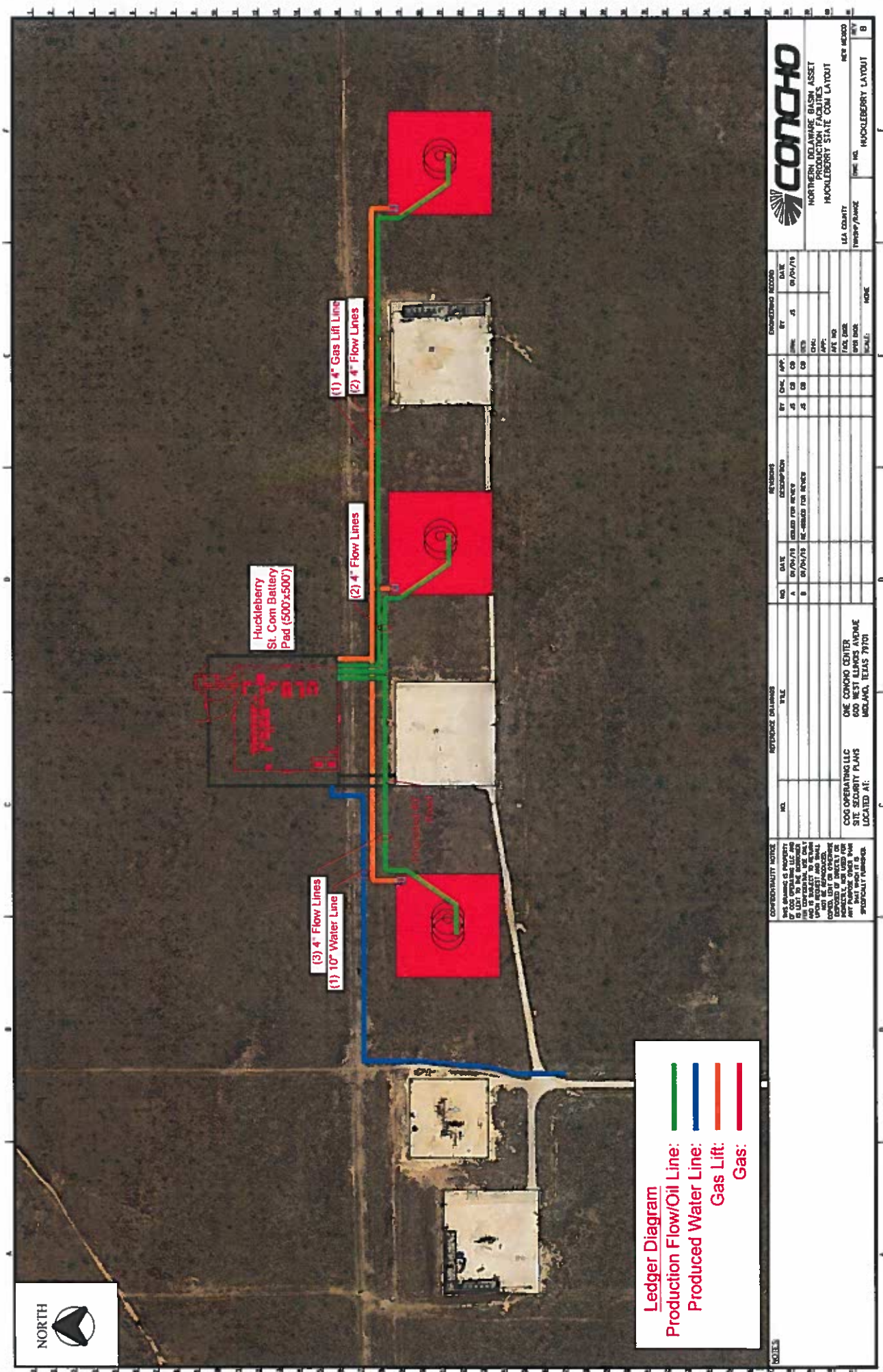
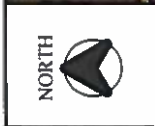
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1

A

1



Ledger Diagram

Production Flow/Oil Line: —

Produced Water Line: —

Gas Lift: —

Gas: —

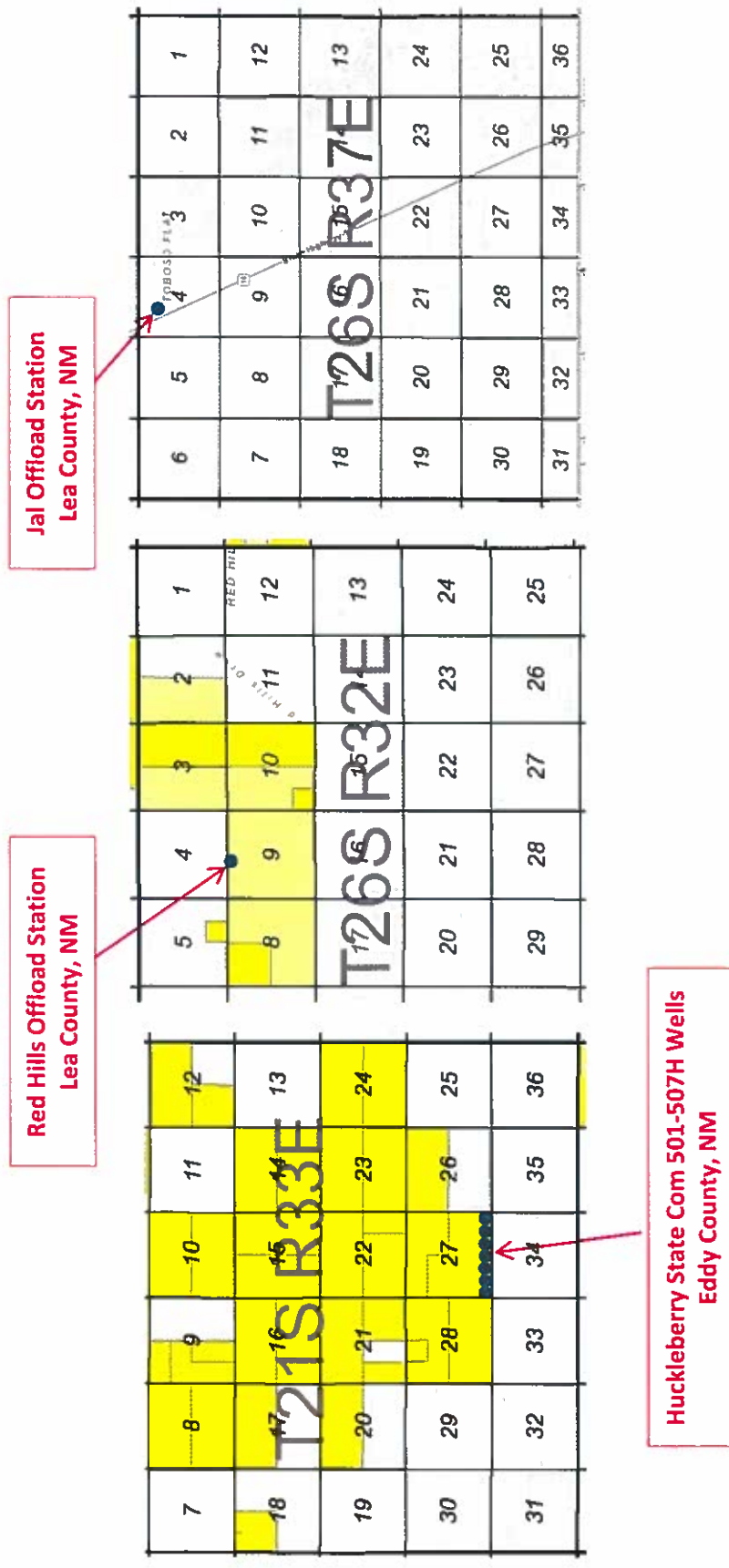
NOTES

CONCHO										NORTHERN OILWAVE BASIN ASSET PRODUCTION FACILITIES HUCKLEBERRY STATE COM LAYOUT										NEW RECORD									
LGA COUNTY										TOWNSHIP/RANGE		TIME IN		HUCKLEBERRY LAYOUT		REV													
NONE										NONE		NONE		8															
CONTRACTING RECORD										REFERENCE CHAIRMAN										CONTRACTING NOTICE									
NO. DATE BY CHG. APP. BY CHG. APP.										NO. DATE BY CHG. APP. BY CHG. APP.										NO. DATE BY CHG. APP. BY CHG. APP.									
A 01/01/19 J.S. C3 C3 C3 C3										A 01/01/19 J.S. C3 C3 C3 C3										A 01/01/19 J.S. C3 C3 C3 C3									
B 01/01/19 J.S. C3 C3 C3 C3										B 01/01/19 J.S. C3 C3 C3 C3										B 01/01/19 J.S. C3 C3 C3 C3									
C 01/01/19 J.S. C3 C3 C3 C3										C 01/01/19 J.S. C3 C3 C3 C3										C 01/01/19 J.S. C3 C3 C3 C3									
D 01/01/19 J.S. C3 C3 C3 C3										D 01/01/19 J.S. C3 C3 C3 C3										D 01/01/19 J.S. C3 C3 C3 C3									
E 01/01/19 J.S. C3 C3 C3 C3										E 01/01/19 J.S. C3 C3 C3 C3										E 01/01/19 J.S. C3 C3 C3 C3									
F 01/01/19 J.S. C3 C3 C3 C3										F 01/01/19 J.S. C3 C3 C3 C3										F 01/01/19 J.S. C3 C3 C3 C3									
G 01/01/19 J.S. C3 C3 C3 C3										G 01/01/19 J.S. C3 C3 C3 C3										G 01/01/19 J.S. C3 C3 C3 C3									
H 01/01/19 J.S. C3 C3 C3 C3										H 01/01/19 J.S. C3 C3 C3 C3										H 01/01/19 J.S. C3 C3 C3 C3									
I 01/01/19 J.S. C3 C3 C3 C3										I 01/01/19 J.S. C3 C3 C3 C3										I 01/01/19 J.S. C3 C3 C3 C3									
J 01/01/19 J.S. C3 C3 C3 C3										J 01/01/19 J.S. C3 C3 C3 C3										J 01/01/19 J.S. C3 C3 C3 C3									
K 01/01/19 J.S. C3 C3 C3 C3										K 01/01/19 J.S. C3 C3 C3 C3										K 01/01/19 J.S. C3 C3 C3 C3									
L 01/01/19 J.S. C3 C3 C3 C3										L 01/01/19 J.S. C3 C3 C3 C3										L 01/01/19 J.S. C3 C3 C3 C3									
M 01/01/19 J.S. C3 C3 C3 C3										M 01/01/19 J.S. C3 C3 C3 C3										M 01/01/19 J.S. C3 C3 C3 C3									
N 01/01/19 J.S. C3 C3 C3 C3										N 01/01/19 J.S. C3 C3 C3 C3										N 01/01/19 J.S. C3 C3 C3 C3									
O 01/01/19 J.S. C3 C3 C3 C3										O 01/01/19 J.S. C3 C3 C3 C3										O 01/01/19 J.S. C3 C3 C3 C3									
P 01/01/19 J.S. C3 C3 C3 C3										P 01/01/19 J.S. C3 C3 C3 C3										P 01/01/19 J.S. C3 C3 C3 C3									
Q 01/01/19 J.S. C3 C3 C3 C3										Q 01/01/19 J.S. C3 C3 C3 C3										Q 01/01/19 J.S. C3 C3 C3 C3									
R 01/01/19 J.S. C3 C3 C3 C3										R 01/01/19 J.S. C3 C3 C3 C3										R 01/01/19 J.S. C3 C3 C3 C3									
S 01/01/19 J.S. C3 C3 C3 C3										S 01/01/19 J.S. C3 C3 C3 C3										S 01/01/19 J.S. C3 C3 C3 C3									
T 01/01/19 J.S. C3 C3 C3 C3										T 01/01/19 J.S. C3 C3 C3 C3										T 01/01/19 J.S. C3 C3 C3 C3									
U 01/01/19 J.S. C3 C3 C3 C3										U 01/01/19 J.S. C3 C3 C3 C3										U 01/01/19 J.S. C3 C3 C3 C3									
V 01/01/19 J.S. C3 C3 C3 C3										V 01/01/19 J.S. C3 C3 C3 C3										V 01/01/19 J.S. C3 C3 C3 C3									
W 01/01/19 J.S. C3 C3 C3 C3										W 01/01/19 J.S. C3 C3 C3 C3										W 01/01/19 J.S. C3 C3 C3 C3									
X 01/01/19 J.S. C3 C3 C3 C3										X 01/01/19 J.S. C3 C3 C3 C3										X 01/01/19 J.S. C3 C3 C3 C3									
Y 01/01/19 J.S. C3 C3 C3 C3										Y 01/01/19 J.S. C3 C3 C3 C3										Y 01/01/19 J.S. C3 C3 C3 C3									
Z 01/01/19 J.S. C3 C3 C3 C3										Z 01/01/19 J.S. C3 C3 C3 C3										Z 01/01/19 J.S. C3 C3 C3 C3									
AA 01/01/19 J.S. C3 C3 C3 C3										AA 01/01/19 J.S. C3 C3 C3 C3										AA 01/01/19 J.S. C3 C3 C3 C3									
AB 01/01/19 J.S. C3 C3 C3 C3										AB 01/01/19 J.S. C3 C3 C3 C3										AB 01/01/19 J.S. C3 C3 C3 C3									
AC 01/01/19 J.S. C3 C3 C3 C3										AC 01/01/19 J.S. C3 C3 C3 C3										AC 01/01/19 J.S. C3 C3 C3 C3									
AD 01/01/19 J.S. C3 C3 C3 C3										AD 01/01/19 J.S. C3 C3 C3 C3										AD 01/01/19 J.S. C3 C3 C3 C3									
AE 01/01/19 J.S. C3 C3 C3 C3										AE 01/01/19 J.S. C3 C3 C3 C3										AE 01/01/19 J.S. C3 C3 C3 C3									
AF 01/01/19 J.S. C3 C3 C3 C3										AF 01/01/19 J.S. C3 C3 C3 C3										AF 01/01/19 J.S. C3 C3 C3 C3									
AG 01/01/19 J.S. C3 C3 C3 C3										AG 01/01/19 J.S. C3 C3 C3 C3										AG 01/01/19 J.S. C3 C3 C3 C3									
AH 01/01/19 J.S. C3 C3 C3 C3										AH 01/01/19 J.S. C3 C3 C3 C3										AH 01/01/19 J.S. C3 C3 C3 C3									
AI 01/01/19 J.S. C3 C3 C3 C3										AI 01/01/19 J.S. C3 C3 C3 C3										AI 01/01/19 J.S. C3 C3 C3 C3									
AJ 01/01/19 J.S. C3 C3 C3 C3										AJ 01/01/19 J.S. C3 C3 C3 C3										AJ 01/01/19 J.S. C3 C3 C3 C3									
AK 01/01/19 J.S. C3 C3 C3 C3										AK 01/01/19 J.S. C3 C3 C3 C3										AK 01/01/19 J.S. C3 C3 C3 C3									
AL 01/01/19 J.S. C3 C3 C3 C3										AL 01/01/19 J.S. C3 C3 C3 C3										AL 01/01/19 J.S. C3 C3 C3 C3									
AM 01/01/19 J.S. C3 C3 C3 C3										AM 01/01/19 J.S. C3 C3 C3 C3										AM 01/01/19 J.S. C3 C3 C3 C3									
AN 01/01/19 J.S. C3 C3 C3 C3										AN 01/01/19 J.S. C3 C3 C3 C3										AN 01/01/19 J.S. C3 C3 C3 C3									
AO 01/01/19 J.S. C3 C3 C3 C3										AO 01/01/19 J.S. C3 C3 C3 C3										AO 01/01/19 J.S. C3 C3 C3 C3									
AP 01/01/19 J.S. C3 C3 C3 C3										AP 01/01/19 J.S. C3 C3 C3 C3										AP 01/01/19 J.S. C3 C3 C3 C3									
AQ 01/01/19 J.S. C3 C3 C3 C3										AQ 01/01/19 J.S. C3 C3 C3 C3										AQ 01/01/19 J.S. C3 C3 C3 C3									
AR 01/01/19 J.S. C3 C3 C3 C3										AR 01/01/19 J.S. C3 C3 C3 C3										AR 01/01/19 J.S. C3 C3 C3 C3									
AS 01/01/19 J.S. C3 C3 C3 C3										AS 01/01/19 J.S. C3 C3 C3 C3										AS 01/01/19 J.S. C3 C3 C3 C3									
AT 01/01/19 J.S. C3 C3 C3 C3										AT 01/01/19 J.S. C3 C3 C3 C3										AT 01/01/19 J.S. C3 C3 C3 C3									
AU 01/01/19 J.S. C3 C3 C3 C3										AU 01/01/19 J.S. C3 C3 C3 C3										AU 01/01/19 J.S. C3 C3 C3 C3									
AV 01/01/19 J.S. C3 C3 C3 C3										AV 01/01/19 J.S. C3 C3 C3 C3										AV 01/01/19 J.S. C3 C3 C3 C3									
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AX 01/01/19 J.S. C3 C3 C3 C3										AX 01/01/19 J.S. C3 C3 C3 C3										AX 01/01/19 J.S. C3 C3 C3 C3									
AY 01/01/19 J.S. C3 C3 C3 C3										AY 01/01/19 J.S. C3 C3 C3 C3										AY 01/01/19 J.S. C3 C3 C3 C3									
AZ 01/01/19 J.S. C3 C3 C3 C3										AZ 01/01/19 J.S. C3 C3 C3 C3										AZ 01/01/19 J.S. C3 C3 C3 C3									
BA 01/01/19 J.S. C3 C3 C3 C3										BA 01/01/19 J.S. C3 C3 C3 C3										BA 01/01/19 J.S. C3 C3 C3 C3									
BB 01/01/19 J.S. C3 C3 C3 C3										BB 01/01/19 J.S. C3 C3 C3 C3										BB 01/01/19 J.S. C3 C3 C3 C3									
BC 01/01/19 J.S. C3 C3 C3 C3										BC 01/01/19 J.S. C3 C3 C3 C3										BC 01/01/19 J.S. C3 C3 C3 C3									
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BE 01/01/19 J.S. C3 C3 C3 C3										BE 01/01/19 J.S. C3 C3 C3 C3										BE 01/01/19 J.S. C3 C3 C3 C3									
BF 01/01/19 J.S. C3 C3 C3 C3										BF 01/01/19 J.S. C3 C3 C3 C3										BF 01/01/19 J.S. C3 C3 C3 C3									
BG 01/01/19 J.S. C3 C3 C3 C3										BG 01/01/19 J.S. C3 C3 C3 C3										BG 01/01/19 J.S. C3 C3 C3 C3									
BH 01/01/19 J.S. C3 C3 C3 C3										BH 01/01/19 J.S. C3 C3 C3 C3										BH 01/01/19 J.S. C3 C3 C3 C3									
BI 01/01/19 J.S. C3 C3 C3 C3										BI 01/01/19 J.S. C3 C3 C3 C3										BI 01/01/19 J.S. C3 C3 C3 C3									
BJ 01/01/19 J.S. C3 C3 C3 C3										BJ 01/01/19 J.S. C3 C3 C3 C3										BJ 01/01/19 J.S. C3 C3 C3 C3									
BK 01/01/19 J.S. C3 C3 C3 C3										BK 01/01/19 J.S. C3 C3 C3 C3										BK 01/01/19 J.S. C3 C3 C3 C3									
BL 01/01/19 J.S. C3 C3 C3 C3										BL 01/01/19 J.S. C3 C3 C3 C3										BL 01/01/19 J.S. C3 C3 C3 C3									
BM 01/01/19 J.S. C3 C3 C3 C3										BM 01/01/19 J.S. C3 C3 C3 C3										BM 01/01/19 J.S. C3 C3 C3 C3									
BN 01/01/19 J.S. C3 C3 C3 C3										BN 01/01/19 J.S. C3 C3 C3 C3										BN 01/01/19 J.S. C3 C3 C3 C3									
BO 01/01/19 J.S. C3 C3 C3 C3										BO 01/01/19 J.S. C3 C3 C3 C3										BO 01/01/19 J.S. C3 C3 C3 C3									
BP 01/01/19 J.S. C3 C3 C3 C3										BP 01/01/19 J.S. C3 C3 C3 C3										BP 01/01/19 J.S. C3 C3 C3 C3									
BQ 01/01/19 J.S. C3 C3 C3 C3										BQ 01/01/19 J.S. C3 C3 C3 C3										BQ 01/01/19 J.S. C3 C3 C3 C3									
BR 01/01/19 J.S. C3 C3 C3 C3										BR 01/01/19 J.S. C3 C3 C3 C3										BR 01/01/19 J.S. C3 C3 C3 C3									
BS 01/01/19 J.S. C3 C3 C3 C3										BS 01/01/19 J.S. C3 C3 C3 C3										BS 01/01/19 J.S. C3 C3 C3 C3									
BT 01/01/19 J.S. C3 C3 C3 C3										BT 01/01/19 J.S. C3 C3 C3 C3										BT 01/01/19 J.S. C3 C3 C3 C3									
BU 01/01/19 J.S. C3 C3 C3 C3										BU 01/01/19 J.S. C3 C3 C3 C3										BU 01/01/19 J.S. C3 C3 C3 C3									
BV 01/01/19 J.S. C3 C3 C3 C3										BV 01/01/19 J.S. C3 C3 C3 C3										BV 01/01/19 J.S. C3 C3 C3 C3									
BW 01/01/19 J.S. C3 C3 C3 C3										BW 01/01/19 J.S. C3 C3 C3 C3										BW 01/01/19 J.S. C3 C3 C3 C3									
BX 01/01/19 J.S. C3 C3 C3 C3										BX 01/01/19 J.S. C3 C3 C3 C3										BX 01/01/19 J.S. C3 C3 C3 C3									
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CC 01/01/19 J.S. C3 C3 C3 C3										CC 01/01/19 J.S. C3 C3 C3 C3										CC 01/01/19 J.S. C3 C3 C3 C3									
CD 01/01/19 J.S. C3 C3 C3 C3										CD 01/01/19 J.S. C3 C3 C3 C3										CD 01/01/19 J.S. C3 C3 C3 C3									
CE 01/01/19 J.S. C3 C3 C3 C3										CE 01/01/19 J.S. C3 C3 C3 C3										CE 01/01/19 J.S. C3 C3 C3 C3									
CF 01/01/19 J.S. C3 C3 C3 C3										CF 01/01/19 J.S. C3 C3 C3 C3										CF 01/01/19 J.S. C3 C3 C3 C3									
CG 01/01/19 J.S. C3 C3 C3 C3										CG 01/01/19 J.S. C3 C3 C3 C3										CG 01/01/19 J.S. C3 C3 C3 C3									
CH 01/01/19 J.S. C3 C3 C3 C3										CH 01/01/19 J.S. C3 C3 C3 C3										CH 01/01/19 J.S. C3 C3 C3 C3									
CI 01/01/19 J.S. C3 C3 C3 C3										CI 01/01/19 J.S. C3 C3 C3 C3										CI 01/01/19 J.S. C3 C3 C3 C3									
CJ 01/01/19 J.S. C3 C3 C3 C3										CJ 01/01/19 J.S. C3 C3 C3 C3										CJ 01/01/19 J.S. C3 C3 C3 C3									
CK 01/01/19 J.S. C3 C3 C3 C3										CK 01/01/19 J.S. C3 C3 C3 C3										CK 01/01/19 J.S. C3 C3 C3 C3									
CL 01/01/19 J.S. C3 C3 C3 C3										CL 01/01/19 J.S. C3 C3 C3 C3										CL 01/01/19 J.S. C3 C3 C3 C3									
CM 01/01/19 J.S. C3 C3 C3 C3										CM 01/01/19 J.S. C3 C3 C3 C3										CM 01/01/19 J.S. C3 C3 C3 C3									
CN 01/01/19 J.S. C3 C3 C3 C3										CN 01/01/19 J.S. C3 C3 C3 C3										CN 01/01/19 J.S. C3 C3 C3 C3									
CO 01/01/19 J.S. C3 C3 C3 C3										CO 01/01/19 J.S. C3 C3 C3 C3										CO 01/01/19 J.S. C3 C3 C3 C3									
CP 01/01/19 J.S. C3 C3 C3 C3										CP 01/01/19 J.S. C3 C3 C3 C3										CP 01/01/19 J.S. C3 C3 C3 C3									
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CS 01/01/19 J.S. C3 C3 C3 C3										CS 01/01/19 J.S. C3 C3 C3 C3										CS 01/01/19 J.S. C3 C3 C3 C3									
CT 01/01/19 J.S. C3 C3 C3 C3										CT 01/01/19 J.S. C3 C3 C3 C3										CT 01/01/19 J.S. C3 C3 C3 C3									
CU 01/01/19 J.S. C3 C3 C3 C3										CU 01/01/19 J.S. C3 C3 C3 C3										CU 01/01/19 J.S. C3 C3 C3 C3									
CV 01/01/19 J.S. C3 C3 C3 C3										CV 01/01/19 J.S. C3 C3 C3 C3										CV 01/01/19 J.S. C3 C3 C3 C3									
CW 01/01/19 J.S. C3 C3 C3 C3										CW 01/01/19 J.S. C3 C3 C3 C3										CW 01/01/19 J.S. C3 C3 C3 C3									
CX 01/01/19 J.S. C3 C3 C3 C3										CX 01/01/19 J.S. C3 C3 C3 C3										CX 01/01/19 J.S. C3 C3 C3 C3									
CY 01/01/19 J.S. C3 C3 C3 C3										CY 01/01/19 J.S. C3 C3 C3 C3										CY 01/01/19 J.S. C3 C3 C3 C3									
CZ 01/01/19 J.S. C3 C3 C3 C3										CZ 01/01/19 J.S. C3 C3 C3 C3										CZ 01/01/19 J.S. C3 C3 C3 C3									
DA 01/01/19 J.S. C3 C3 C3 C3										DA 01/01/19 J.S. C3 C3 C3 C3										DA 01/01/19 J.S. C3 C3 C3 C3									
DB 01/01/19 J.S. C3 C3 C3 C3										DB 01/01/19 J.S. C3 C3 C3 C3										DB 01/01/19 J.S. C3 C3 C3 C3									
DC 01/01/19 J.S. C3 C3 C3 C3										DC 01/01/19 J.S. C3 C3 C3 C3										DC 01/01/19 J.S. C3 C3 C3 C3									
DD 01/01/19 J.S. C3 C3 C3 C3										DD 01/01/19 J.S. C3 C3 C3 C3										DD 01/01/19 J.S. C3 C3 C3 C3									
DE 01/01/19 J.S. C3 C3 C3 C3										DE 01/01/19 J.S. C3 C3 C3 C3										DE 01/01/19 J.S. C3 C3 C3 C3									
DF 01/01/19 J.S. C3 C3 C3 C3										DF 01/01/19 J.S. C3 C3 C3 C3										DF 01/01/19 J.S. C3 C3 C3 C3									
DG 01/01/19 J.S. C3 C3 C3 C3										DG 01/01/19 J.S. C3 C3 C3 C3										DG 01/01/19 J.S. C3 C3 C3 C3									
DH 01/01/19 J.S. C3 C3 C3 C3										DH 01/01/19 J.S. C3 C3 C3 C3										DH 01/01/19 J.S. C3 C3 C3 C3									
DI 01/01/19 J.S. C3 C3 C3 C3										DI 01/01/19 J.S. C3 C3 C3 C3										DI 01/01/19 J.S. C3 C3 C3 C3									
DJ 01/01/19 J.S. C3 C3 C3 C3										DJ 01/01/19 J.S. C3 C3 C3 C3										DJ 01/01/19 J.S. C3 C3 C3 C3									
DK 01/01/19 J.S. C3 C3 C3 C3										DK 01/01/19 J.S. C3 C3 C3 C3										DK 01/01/19 J.S. C3 C3 C3 C3									
DL 01/01/19 J.S. C3 C3 C3 C3										DL 01/01/19 J.S. C3 C3 C3 C3										DL 01/01/19 J.S. C3 C3 C3 C3									
DM 01/01/19 J.S. C3 C3 C3 C3										DM 01/01/19 J.S. C3 C3 C3 C3										DM 01/01/19 J.S. C3 C3 C3 C3									
DN 01/01/19 J.S. C3 C3 C3 C3										DN 01/01/19 J.S. C3 C3 C3 C3										DN 01/01/19 J.S. C3 C3 C3 C3									
DO 01/01/19 J.S. C3 C3 C3 C3										DO 01/01/19 J.S. C3 C3 C3 C3										DO 01/01/19 J.S. C3 C3 C3 C3									
DP 01/01/19 J.S. C3 C3 C3 C3										DP 01/01/19 J.S. C3 C3 C3 C3										DP 01/01/19 J.S. C3 C3 C3 C3									
DQ 01/01/19 J.S. C3 C3 C3 C3										DQ 01/01/19 J.S. C3 C3 C3 C3										DQ 01/01/19 J.S. C3 C3 C3 C3									
DR 01/01/19 J.S. C3 C3 C3 C3										DR 01/01/19 J.S. C3 C3 C3 C3										DR 01/01/19 J.S. C3 C3 C3 C3									
DS 01/01/19 J.S. C3 C3 C3 C3										DS 01/01/19 J.S. C3 C3 C3 C3										DS 01/01/19 J.S. C3 C3 C3 C3									
DT 01/01/19 J.S. C3 C3 C3 C3										DT 01/01/19 J.S. C3 C3 C3 C3										DT 01/01/19 J.S. C3 C3 C3 C3									
DU 01/01/19 J.S. C3 C3 C3 C3										DU 01/01/19 J.S. C3 C3 C3 C3										DU 01/01/19 J.S. C3 C3 C3 C3									
DV 01/01/19 J.S. C3 C3 C3 C3										DV 01/01/19 J.S. C3 C3 C3 C3										DV 01/01/19 J.S. C3 C3 C3 C3									
DW 01/01/19 J.S. C3 C3 C3 C3										DW 01/01/19 J.S. C3 C3 C3 C3										DW 01/01/19 J.S. C3 C3 C3 C3									
DX 01/01/19 J.S. C3 C3 C3 C3										DX 01/01/19 J.S. C3 C3 C3 C3										DX 01/01/19 J.S. C3 C3 C3 C3									
DY 01/01/19 J.S. C3 C3 C3 C3										DY 01/01/19																			

Huckleberry State Com 501H-507H Wells

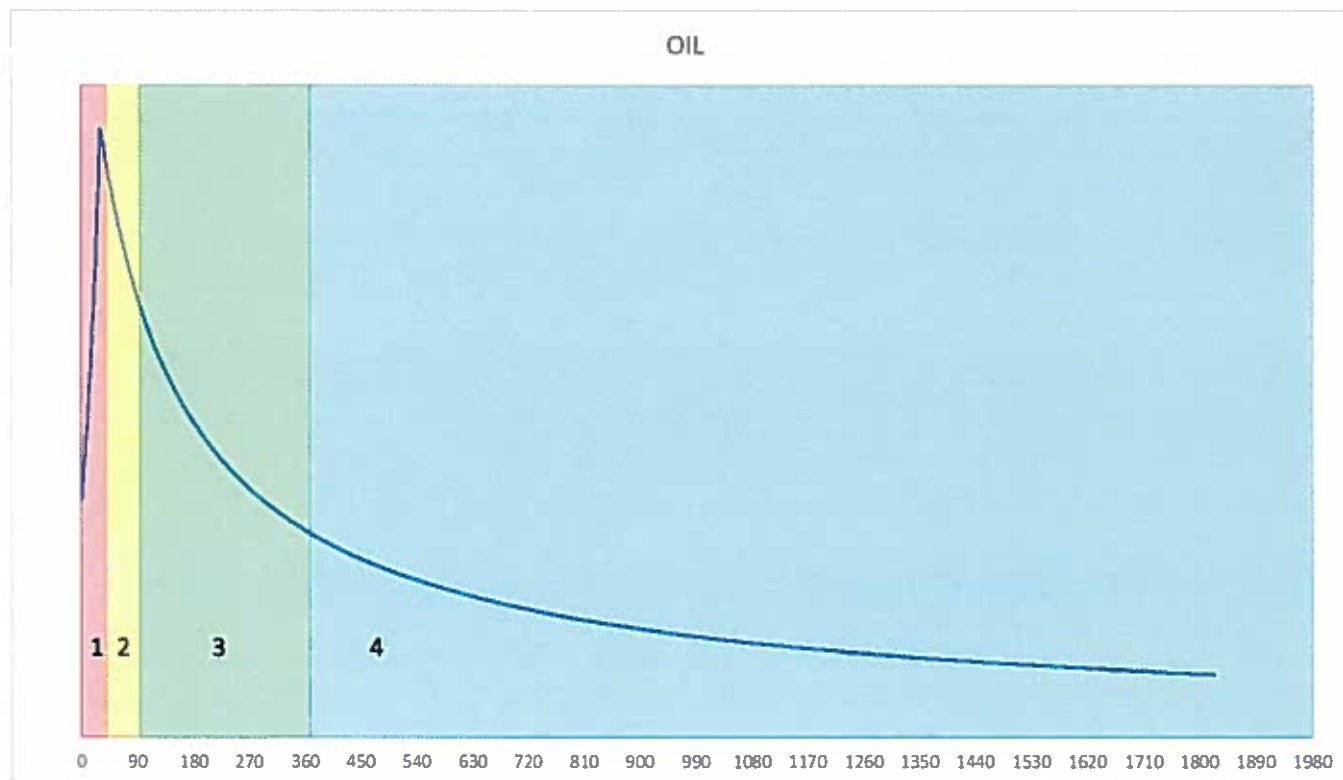
&

Red Hills and Jal Offload Station Map



EXPECTED RATE OF DECLINE

COG's reservoir team generated "type curves" for production from the various Bone Spring zones using available production "Rate vs Time" data and volumetric estimates of recoverable oil. The generated Rate vs Time plots were supplied to the facility engineer for properly designing production equipment.



Range 1 (red): This is the flowback period and occurs from first production until shortly after peak. During this stage we will have a third party flowback company on location measuring rates and volumes hourly and reporting daily well tests via meters and equipment that are proven regularly in accordance with API MPMS 20.1. Rates will be ramped up until peak production is reached and the well begins to decline. Daily volume changes of 3-5% per day are typical.

Range 2 (yellow): This is the period of highest decline, early in the life of the well. It is recommended that well tests through the battery separator are conducted twice weekly. Changes of 0.5-1.0% per day are typical.

Range 3 (green): The well is still in hyperbolic decline, though daily decline percentages have dropped. Monthly well tests are recommended at this point. Changes of 0.2-0.5% per day are typical.

Range 4 (blue): The well is approaching exponential decline and fluctuations in daily rates have minimized. Semi-annual well tests are recommended at this stage and for the remaining life of the well. Changes of 0.0-0.2% per day are typical.

Huckleberry State Com 501H-507H – Owner Notification List

<u>Owner</u>	<u>Certified Return Receipt No.</u>	<u>Delivered</u>
Centennial Resource Production 1001 17 th St., Ste. 1800 Denver, CO 80202	7017 3040 0000 2540 4140	
EOG A Resources Inc. EOG Y Resources Inc. EOG M Resources Inc. 5509 Champions Dr. Midland, TX 79706	7017 3040 0000 2540 4133	
The Allar Company 735 Elm St. Graham, TX 76450	7017 3040 0000 2540 4126	
Charis Royalty F, LP 1401 Rainbow St. Southlake, TX 76092	7017 3040 0000 2540 4119	
DG Royalty, LLC 110 N. Marienfeld, Ste. 200 Midland, TX 79701	7017 3040 0000 2540 4102	
GMT New Mexico Royalty Company, LLC 1560 Broadway, Ste. 2000 Denver, CO 80202	7017 3040 0000 2540 4096	



April 30, 2019

CERTIFIED MAIL RECEIPT REQUESTED
7017 3040 0000 2540 4140

Centennial Resource Production
1001 17th St, Ste. 1800
Denver, CO 80202

Re: Surface Lease Commingling (CTB) and Off-Lease Measurement

Gentlemen:

Attached is a copy of COG Operating LLC's application for surface lease commingling (CTB) and off-lease measurement of production from the Huckleberry State Com 501H-507H wells. These wells are located in Section 27-T21S-R33E, Lea County, NM.

You are receiving this information per NMOCD's requirement to notify all parties owning an interest in the minerals affected by this application. Any objections to these proposals should be registered with the NMOCD within 20 days of the date of this letter.

If you have any questions regarding this application, please contact me at 575-748-6958 or by email at dwilbourn@concho.com.

Sincerely,

A handwritten signature in blue ink that reads "Debora L. Wilbourn".

Debora L. Wilbourn
Production Compliance Lead

Enclosures

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



April 30, 2019

**CERTIFIED MAIL RECEIPT REQUESTED
7017 3040 0000 2540 4133**

EOG A Resources Inc.
EOG M Resources Inc.
EOG Y Resources Inc.
5509 Champions Dr.
Midland, TX 79706

Re: Surface Lease Commingling (CTB) and Off-Lease Measurement

Gentlemen:

Attached is a copy of COG Operating LLC's application for surface lease commingling (CTB) and off-lease measurement of production from the Huckleberry State Com 501H-507H wells. These wells are located in Section 27-T21S-R33E, Lea County, NM.

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Sincerely,

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P 575.748.6940 | F 575.746.2096



April 30, 2019

**CERTIFIED MAIL RECEIPT REQUESTED
7017 3040 0000 2540 4126**

The Allar Company
P. O. Box 1576
Graham, TX 76450-1567

Re: Surface Lease Commingling (CTB) and Off-Lease Measurement

Gentlemen:

Attached is a copy of COG Operating LLC's application for surface lease commingling (CTB) and off-lease measurement of production from the Huckleberry State Com 501H-507H wells. These wells are located in Section 27-T21S-R33E, Lea County, NM.

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April 30, 2019

CERTIFIED MAIL RECEIPT REQUESTED
7017 3040 0000 2540 4119

Charis Royalty F, LP
1401 Rainbow St.
Southlake, TX 76092

Re: Surface Lease Commingling (CTB) and Off-Lease Measurement

Gentlemen:

Attached is a copy of COG Operating LLC's application for surface lease commingling (CTB) and off-lease measurement of production from the Huckleberry State Com 501H-507H wells. These wells are located in Section 27-T21S-R33E, Lea County, NM.

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P 575.748.6940 | F 575.746.2096



April 30, 2019

**CERTIFIED MAIL RECEIPT REQUESTED
7017 3040 0000 2540 4102**

DG Royalty, LLC
110 N. Marienfeld, Ste. 200
Midland, TX 79701

Re: Surface Lease Commingling (CTB) and Off-Lease Measurement

Gentlemen:

Attached is a copy of COG Operating LLC's application for surface lease commingling (CTB) and off-lease measurement of production from the Huckleberry State Com 501H-507H wells. These wells are located in Section 27-T21S-R33E, Lea County, NM.

You are receiving this information per NMOCD's requirement to notify all parties owning an interest in the minerals affected by this application. Any objections to these proposals should be registered with the NMOCD within 20 days of the date of this letter.

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Debora L. Wilbourn
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P 432.683.7443 | F 432.683.7441

ARTESIA WEST OFFICE

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P 575.748.6940 | F 575.746.2096



April 30, 2019

**CERTIFIED MAIL RECEIPT REQUESTED
7017 3040 0000 2540 4096**

GMT New Mexico Royalty Company, LLC
1560 Broadway, Ste. 2000
Denver, CO 80202

Re: Surface Lease Commingling (CTB) and Off-Lease Measurement

Gentlemen:

Attached is a copy of COG Operating LLC's application for surface lease commingling (CTB) and off-lease measurement of production from the Huckleberry State Com 501H-507H wells. These wells are located in Section 27-T21S-R33E, Lea County, NM.

You are receiving this information per NMOCD's requirement to notify all parties owning an interest in the minerals affected by this application. Any objections to these proposals should be registered with the NMOCD within 20 days of the date of this letter.

If you have any questions regarding this application, please contact me at 575-748-6958 or by email at dwilbourn@concho.com.

Sincerely,

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P 575.748.6940 | F 575.746.2096



April 30, 2019

Commissioner of Public Lands
NM State Land Office
P. O. Box 1148
Santa Fe, NM 87504-1148

RE: Application for CTB and Off-lease Measurement

Huckleberry State Com 501H, API# 30-025-45231, Ut. A, Sec. 27-T21S-R33E, Lea County, NM
Huckleberry State Com 502H, API# 30-025-45232, Ut. B, Sec. 27-T21S-R33E, Lea County, NM
Huckleberry State Com 503H, API# 30-025-45233, Ut. B, Sec. 27-T21S-R33E, Lea County, NM
Huckleberry State Com 504H, API# 30-025-45234, Ut. C, Sec. 27-T21S-R33E, Lea County, NM
Huckleberry State Com 505H, API# 30-025-45207, Ut. D, Sec. 27-T21S-R33E, Lea County, NM
Huckleberry State Com 506H, API# 30-025-45208, Ut. D, Sec. 27-T21S-R33E, Lea County, NM
Huckleberry State Com 507H, API# 30-025-45209, Ut. D, Sec. 27-T21S-R33E, Lea County, NM

To Whom it May Concern:

Please find enclosed check in the amount of \$150.00, which constitutes payment of the required fee for the referenced Surface Commingling and Off-lease Measurement application.

If you have any questions, please do not hesitate to contact me at dwilbourn@concho.com or 575-748-6958.

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Debora L. Wilbourn
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