

ABOVE THIS LINE FOR DIVISION USE ONLY

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



Need Fed EX COPY

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

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR

- [D] Other: Specify _____

- CTB PLC CTB 813
- COG operating ULL
229137

RECEIVED OCS
 21 FEB - 1 P.M. 10

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

- [A] Working, Royalty or Overriding Royalty Interest Owners

- [B] Offset Operators, Leaseholders or Surface Owner

- [C] Application is One Which Requires Published Legal Notice

- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,

- [F] Waivers are Attached

Well
- King Air 8 Fed Com # 3H
30-025-41476
- King Air 8 Fed Com # 4H
30-025-4220
Pool
- Lusk, Bone Springs

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **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.

Debora L. Wilbourn
 Print or Type Name

Debora L. Wilbourn
 Signature

Regulatory Analyst
 Title

1/18/17
 Date

King Air 8 Federal Com #3H & #4H

dwilbourn@concho.com
 e-mail Address

4145

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.
NMNM036100

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

8. Well Name and No.
KING AIR 8 FEDERAL COM 3H

9. API Well No.
30-025-41476

10. Field and Pool or Exploratory Area
LUSK; BONE SPRING

11. County or Parish, State
LEA COUNTY, NM

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
COG OPERATING LLC
Contact: AMANDA AVERY
E-Mail: aavery@concho.com

3a. Address
2208 W MAIN STREET
ARTESIA, NM 88210

3b. Phone No. (include area code)
Ph: 575-748-6940

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 17 T19S R32E NENW 410FNL 1960FWL

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 Surface Commingling
	<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 administrative approval to pool/surface lease commingle gas production and off-lease gas sales for the following wells:

King Air 8 Federal Com #3H
Lusk; Bone Spring, North
Section 17-T19S-R32E
API # 30-025-41476
Fed Leases NMNM036100, NMNM092771, NMNM095641, NMNM1078391
Lea County, NM

King Air 8 Federal Com #4H
Lusk; Bone Spring

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #365615 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Hobbs

Name (Printed/Typed) AMANDA AVERY	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 02/01/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
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 _____

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.

Additional data for EC transaction #365615 that would not fit on the form

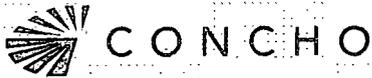
32. Additional remarks, continued

Section 8-T19S-R32E

API # 30-025-42200

Fed Leases: NMNM092771, NMNM095641

Lea County, NM



February 1, 2017

Michael McMillan
New Mexico Oil Conservation Division
1220 S. Saint Francis Dr.
Santa Fe, NM 87505

Re: Pool/Surface Lease Commingle and Off-Lease Measurement

King Air 8 Federal Com #3H
Lusk; Bone Spring, North (41450)
Sec. 17-T19S-R32E
API# 30-025-41476
Lease# NMNM092771, NMNM095641, NMNM107391
Lea County, NM

King Air 8 Federal Com #4H
Lusk; Bone Spring (41440)
Sec. 8-T19S-R32E
API# 30-025-42200
Lease# NMNM092771, NMNM095641
Lea County, NM

Mr. McMillan:

COG Operating LLC respectfully requests administrative approval for pool/surface lease commingling and off-lease measurement of the gas only from the referenced wells. Gas from each well will be measured prior to leaving the location, with the gas sales meter being off-lease and located in Unit C, Sec. 8-T19S-R32E, adjacent to the TBM Federal Com #1 battery.

The proposed commingling and off-lease measurement method is in the interest of conservation, economic feasibility and reduction of environmental impact. It will not result in reduced royalties or improper measurement of production. Without approval for pool/surface commingling, which will be necessary for supporting off-lease measurement at an existing point on Frontier's gas sales line, costs will greatly increase and shorten the economic life of the wells.

Please see the attached items:

- Administrative Application Checklist
- C-102s for the King Air wells
- Site facility diagrams for the King Air batteries and the TBM battery
- Map showing well spots and lease boundaries
- Map showing well spots and communitization agreements' dedicated acreage
- Data for production sources, measurement and allocation of the gas from the King Air wells
- Proof of notification of interest owners (ownership is diverse)

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 black ink that reads "Debora L. Wilbourn".

Debora L. Wilbourn
Regulatory Analyst

Enclosures

CORPORATE ADDRESS

ONE CONCHO CENTER | 600 WEST ILLINOIS AVENUE | MIDLAND, TEXAS 79701
P432.683.7443 | F432.683.7441

ARTESIA WEST OFFICE

2208 MAIN STREET | ARTESIA, NEW MEXICO 88210
P575.748.6940 | F575.746.2096

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. _____
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
Lusk; Bone Spring - 41440	See attached			
Lusk; Bone Spring, North - 41450	See attached			

(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: Debra Wilbourn TITLE: Regulatory Analyst DATE: 01/17/2017

TYPE OR PRINT NAME Debra Wilbourn TELEPHONE NO.: 575-748-6958

E-MAIL ADDRESS dwilbourn@concho.com

**Economic Justification Work Sheet
Frontier CDP Meter #6065029**

Pool/Surface Lease Commingle and Off-Lease Gas Sales

Individual Well Production

Federal Lease NMNM0036100, NMNM092771, NMNM095641, NMNM107391
Royalty Rate 12.5%; CA in progress

<u>Well Name</u>	<u>MCFPD</u>	<u>Dry BTU</u>	<u>Value/mcf</u>
King Air 8	633	1446	3.65/mcf
Federal Com 3H			
Allocation Meter #390022285			

H2S: None Detected

Federal Lease NMNM092771, NMNM95641

Royalty Rate 12.5%; CA# NMNM134754

<u>Well Name</u>	<u>MCFPD</u>	<u>Dry BTU</u>	<u>Value/mcf</u>
King Air 8	110	1239	3.65/mcf
Federal Com 4H			
Meter #???			

H2S: .0001 mol%

Combined Production

Federal Leases NMNM0036100, NMNM092771, NMNM095641, NMNM107391

Royalty Rate 12.5%

<u>Facility Name</u>	<u>MCFPD</u>	<u>Dry BTU</u>	<u>Value/mcf</u>
Frontier	743	1416	3.65/mcf
CDP Meter #6065029			

As per our contract with the gas purchaser, commingling gas production will not reduce royalty value.

Signed:



Printed Name: Debora L. Wilbourn

Title: Regulatory Analyst

Date: 1/19/17

CONFIDENTIAL

Atchafalaya Measurement, Inc.
416 East Main Street
Artesia, NM 88210

1/19/2017 10:46 AM
Phone: 575-746-3481
888-421-9453
Fax: 575-748-9852
jhernandez@ami.email

GAS ANALYSIS REPORT

Analysis For: COG OPERATING, L.L.C.
Field Name:
Well Name: KING AIR 8 #3H
Station Number: N/A
Purpose: SPOT
Sample Deg. F: 60.0
Volume/Day:
Formation:
Line PSIG: 55.6
Line PSIA: 68.8

Run No: 2170119-06
Date Run: 01/19/2017
Date Sampled: 01/18/2017
Producer: COG OPERATING, L.L.C.
County: LEA
State: NM
Sampled By: DERYL ELROD
Atmos Deg. F: 53

GAS COMPONENTS			
		MOL%	GPM
Oxygen	O2:	0.0000	
Carbon Dioxide	C02:	0.2302	
Nitrogen	N2:	2.3895	
Hydrogen Sulfide	H2S:	0.0000	
Methane	C1:	65.8416	
Ethane	C2:	15.6914	4.1954
Propane	C3:	8.8948	2.4499
Iso-Butane	IC4:	1.0867	0.3555
Nor-Butane	NC4:	2.7473	0.8659
Iso-Pentane	IC5:	0.6976	0.2551
Nor-Pentanes	NC5:	0.6955	0.2521
Hexanes Plus	C6+:	1.7254	0.7501
Totals		100.0000	9.1240

Pressure Base: 14.730
Real BTU Dry: 1446.483
Real BTU Wet: 1421.372

Calc. Ideal Gravity: 0.8568
Calc. Real Gravity: 0.8609
Field Gravity:
Standard Pressure: 14.696
Ideal BTU Dry: 1435.753
Ideal BTU Wet: 1410.771
Z Factor: 0.9949
Average Mol Weight: 24.8152
Average CuFt/Gal: 52.3573
26 lb. Product: 1.9726
Ethane+ GPM: 9.1240
Propane+ GPM: 4.9286
Butane+ GPM: 2.4787
Pentane+ GPM: 1.2573

Remarks:
H2S IN GAS STREAM ON LOCATION: NONE DETECTED

Analysis By: James Hernandez

Atchafalaya Measurement, Inc.
416 East Main Street
Artesia, NM 88210

1/19/2017 10:48 AM
Phone: 575-746-3481
888-421-9453
Fax: 575-748-9852
jhernandez@ami.email

GAS ANALYSIS REPORT

Analysis For: COG OPERATING, L.L.C.
Field Name:
Well Name: KING AIR 8 #4H
Station Number: N/A
Purpose: SPOT
Sample Deg. F: 60.0
Volume/Day:
Formation:
Line PSIG: 101.6
Line PSIA: 114.8

Run No: 2170119-07
Date Run: 01/19/2017
Date Sampled: 01/18/2017
Producer: COG OPERATING, L.L.C.
County: LEA
State: NM
Sampled By: DERYL ELROD
Atmos Deg. F: 53

GAS COMPONENTS			
		MOL%	GPM
Oxygen	O2:	0.0000	
Carbon Dioxide	CO2:	0.1963	
Nitrogen	N2:	3.5732	
Hydrogen Sulfide H2S:		0.0001	
Methane	C1:	75.9630	
Ethane	C2:	11.4267	3.0552
Propane	C3:	5.5378	1.5253
Iso-Butane	IC4:	0.6324	0.2069
Nor-Butane	NC4:	1.4806	0.4667
Iso-Pentane	IC5:	0.3095	0.1132
Nor-Pentanes	NC5:	0.2823	0.1023
Hexanes Plus	C6+:	0.5981	0.2600
Totals		100.0000	5.7296

Pressure Base: 14.730
Real BTU Dry: 1239.229
Real BTU Wet: 1217.716

Calc. Ideal Gravity: 0.7376
Calc. Real Gravity: 0.7400
Field Gravity:
Standard Pressure: 14.696
Ideal BTU Dry: 1232.026
Ideal BTU Wet: 1210.589
Z Factor: 0.9965
Average Mol Weight: 21.3640
Average CuFt/Gal: 55.5589
26 lb. Product: 0.7359
Ethane+ GPM: 5.7295
Propane+ GPM: 2.6743
Butane+ GPM: 1.1490
Pentane+ GPM: 0.4755

Remarks:
H2S IN GAS STREAM ON LOCATION: 0.0001% = 1.0 PPM

Analysis By: James Hernandez

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (576) 393-6101 Fax: (576) 393-0720

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

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

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 478-3460 Fax: (505) 478-3462

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 30-025-41476		Pool Code 41450	Pool Name Lusk; Bone Spring, North
Property Code 40109	Property Name KING AIR 8 FEDERAL COM		Well Number 3H
OGRID No. 229137	Operator Name COG OPERATING, LLC		Elevation 3609.4'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	17	19-S	32-E		410	NORTH	1960	WEST	LEA

Bottom Hole Location If Different From Surface

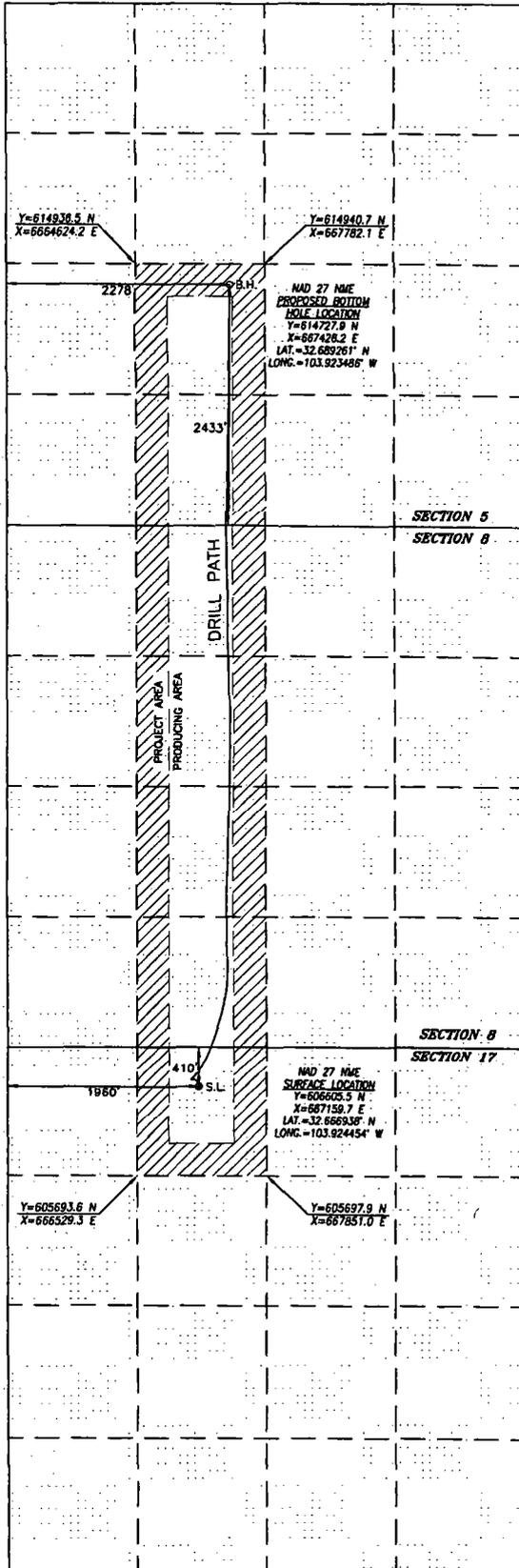
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	5	19-S	32-E		2433	SOUTH	2278	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
240			

**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 40109	Property Name KING AIR 8 FEDERAL COM	Well Number 3H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3609.4'



BOREPATH SHOWN HEREON IS BASED ON DIRECTIONAL SURVEY REPORT PROVIDED BY COG OPERATING, LLC FOR THE KING AIR 8 FEDERAL COM #3H SUPPLIED TO HARCROW SURVEYING, LLC ON JANUARY 5, 2017.

1800 0 1800
SCALE: 1"=1800'

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: 2/1/17

Debora L. Wilbourn

Printed Name

dwilbourn@concho.com

E-mail Address

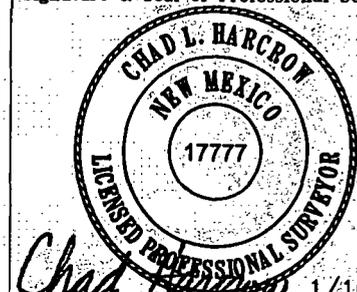
SURVEYOR CERTIFICATION

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.

JANUARY 5, 2017/SEPTEMBER 16, 2016

Date of Survey/Date of Geographic Survey

Signature & Seal of Professional Surveyor



1/10/17

Certificate No. CHAD HARCROW 17777

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (505) 393-6181 Fax: (505) 393-0720

DISTRICT II
611 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 748-1285 Fax: (505) 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) 478-3480 Fax: (505) 478-3482

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-42200	Pool Code 41440	Pool Name Lusk; Bone Spring
Property Code 40109	Property Name KING AIR 8 FEDERAL	Well Number 4H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3610.5

Surface Location

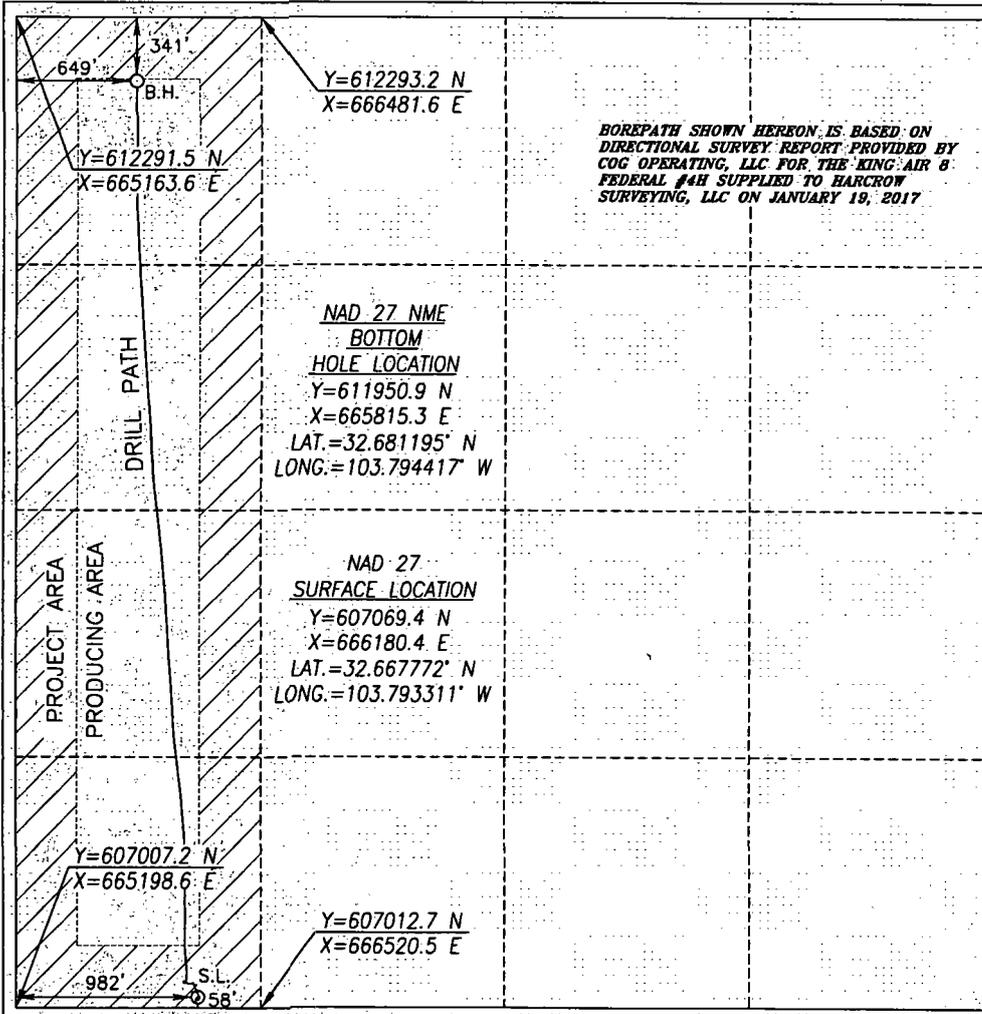
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	8	19-S	32-E		58	SOUTH	982	WEST	LEA

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	8	19-S	32-E		341	NORTH	649	WEST	LEA

Dedicated Acres 160	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.

Debra L. Wilbourn
Signature Date 2/1/17
Debra 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.

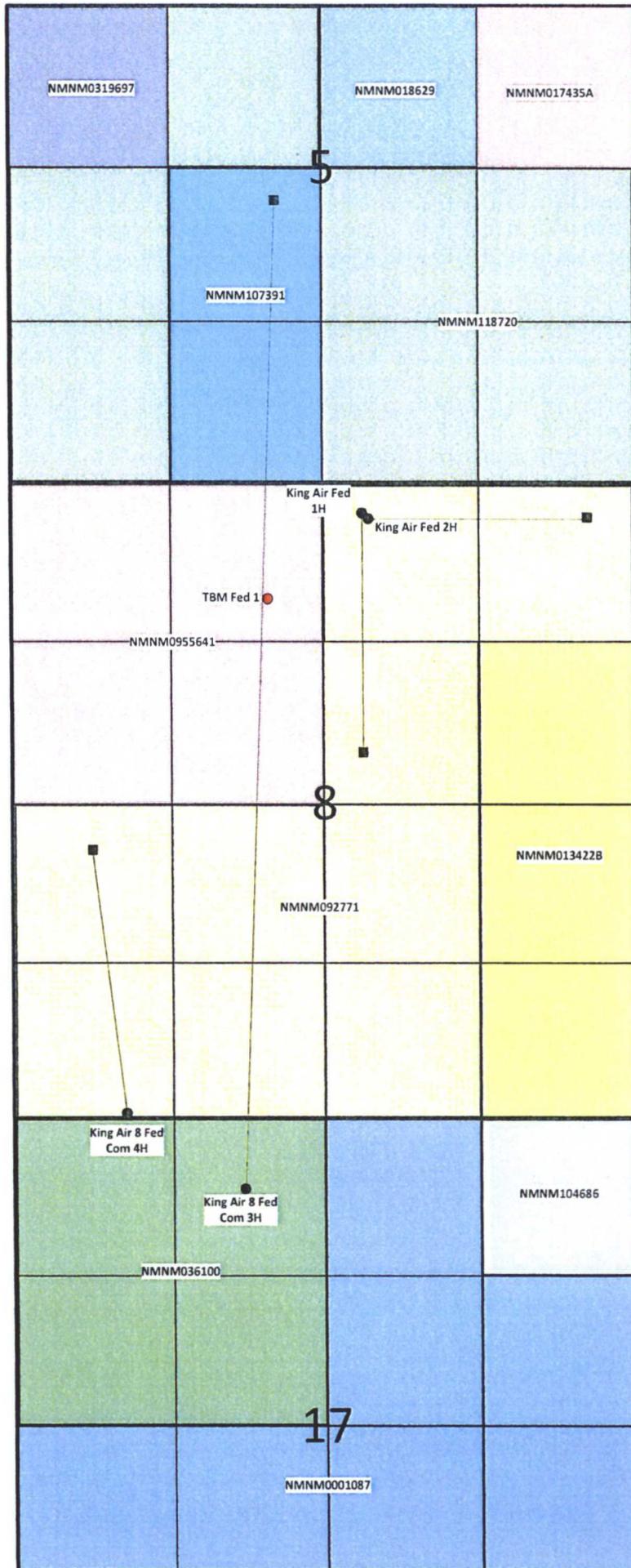
APRIL 10, 2013/JANUARY 2017
Date of Survey

Signature & Seal of Professional Surveyor

Chad L. Harcrow
1/31/17
Certificate No. CHAD HARCROW 17777
W/O: # 17-73 DRAWN BY: VD

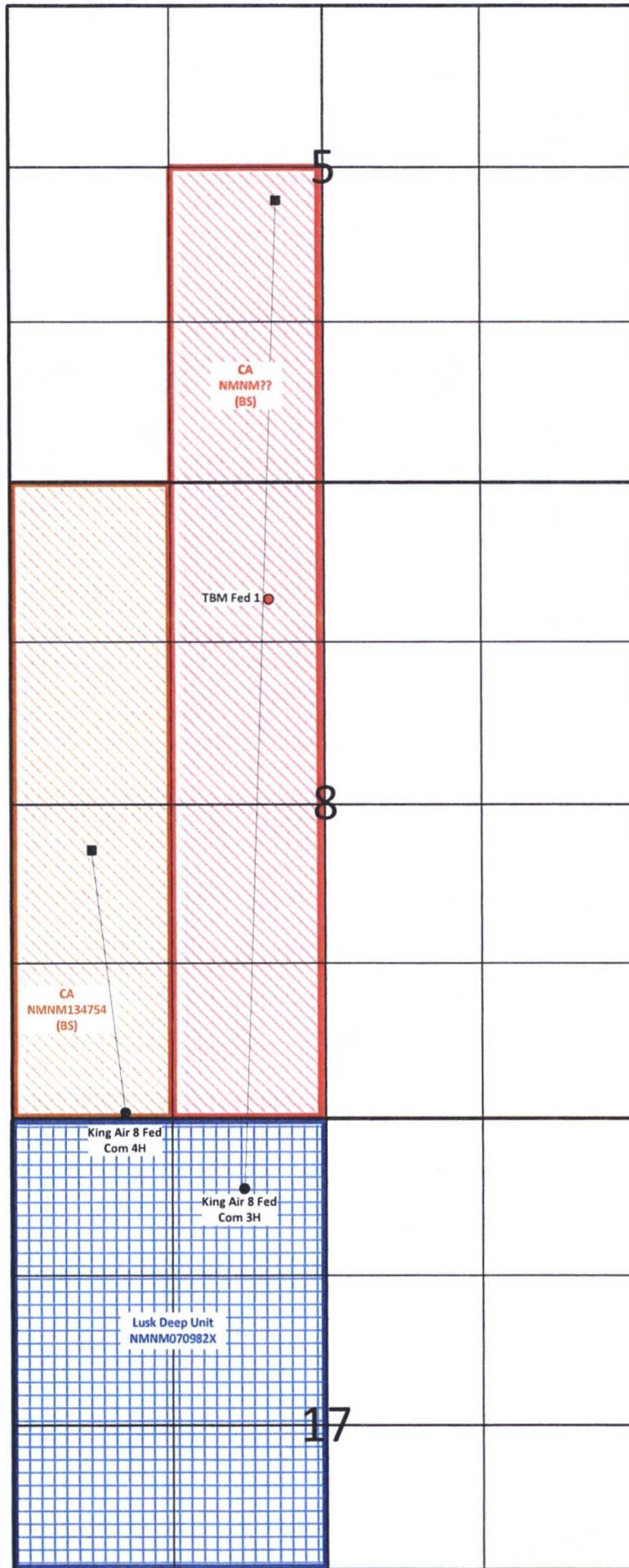
King Air Federal Wells

- Existing SHL
- Existing BHL
- Proposed SHL
- Proposed BHL



4"=1 mi

King Air Federal Wells



4"=1 mi

**DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
CASE RECORDATION
(MASS) Serial Register Page**

Run Time: 11:51 AM

Page 1 of 5

Run Date: 01/18/2017

01 02-25-1920;041STAT0437;30USC181ETSEQ

Total Acres

Serial Number

Case Type 311211: O&G LSE SIMO PUBLIC LAND

867.850

NMNM-- - 036100

Commodity 459: OIL & GAS

Case Disposition: CLOSED

Serial Number: NMNM-- - 036100

Name & Address	Int Rel	% Interest
SPEAR ELLIE BOX 309 HOBBS NM 88240	LESSEE	100.000000000

Serial Number: NMNM-- - 036100

Mer Twp	Rng	Sec	STyp	SNr Suff	Subdivision	District/Field Office	County	Mgmt Agency
23 0150N	0090W	006	LOTS		4-7;	FARMINGTON FIELD OFFICE	MCKINLEY	BUREAU OF LAND MGMT
23 0150N	0090W	020	ALIQ		E2;	FARMINGTON FIELD OFFICE	MCKINLEY	BUREAU OF LAND MGMT
23 0150N	0090W	022	ALIQ		N2;	FARMINGTON FIELD OFFICE	MCKINLEY	BUREAU OF LAND MGMT
23 0150N	0090W	030	ALIQ		S2SE;	FARMINGTON FIELD OFFICE	MCKINLEY	BUREAU OF LAND MGMT

Serial Number: NMNM-- - 036100

Act Date	Code	Action	Action Remark	Pending Office
02/12/1979	387	CASE ESTABLISHED	PARCEL #378	
02/13/1979	888	DRAWING HELD		
03/22/1979	237	LEASE ISSUED		
04/01/1979	530	RLTY RATE - 12 1/2%		
04/01/1979	868	EFFECTIVE DATE		NM
03/29/1982	111	RENTAL RECEIVED	04/01/1982-03/31/1983	
03/08/1983	111	RENTAL RECEIVED	04/01/1983-03/31/1984	
03/05/1984	111	RENTAL RECEIVED	04/01/1984-03/31/1985	
02/04/1985	111	RENTAL RECEIVED	04/01/1985-03/31/1986	
03/04/1986	111	RENTAL RECEIVED	04/01/1986-03/31/1987	
04/02/1987	111	RENTAL RECEIVED	04/01/1987-03/31/1988	
08/31/1987	974	AUTOMATED RECORD VERIF		MLO/GB
10/27/1988	963	CASE MICROFILMED/SCANNED	CNUM 565,122	
03/31/1989	202	COMP PENDING		
03/31/1989	234	EXPIRED		
03/31/1989	970	CASE CLOSED		
07/24/1989	974	AUTOMATED RECORD VERIF		LBO/LVM
08/11/1989	600	RECORDS NOTED		
10/06/1989	121	COMP REPORT REQUESTED		
11/06/1989	123	COMP REPORT RECEIVED		
12/03/1991	163	CASE SENT TO NARA		

Serial Number: NMNM-- - 036100

Line Nr	Remarks
0001	049-92-0006, 90F34, 218510

**DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
CASE RECORDATION
(MASS) Serial Register Page**

Run Time: 11:49 AM

Page 1 of 2

Run Date: 01/18/2017

01 12-22-1987;101STAT1330;30USC181 ET SE
Case Type 312021: O&G LSE COMP PD -1987
Commodity 459: OIL & GAS
Case Disposition: AUTHORIZED

Total Acres 680.000
Serial Number NMNM-- - 092771

			Serial Number: NMNM-- - 092771	
Name & Address			Int Rel	% Interest
COG OPERATING LLC	600 W ILLINOIS AVE	MIDLAND TX 797014882	OPERATING RIGHTS	0.000000000
CONCHO OIL & GAS LLC	600 W ILLINOIS AVE, ONE CONCHO CEI	MIDLAND TX 797014882	OPERATING RIGHTS	0.000000000
WESTALL FAMILY OIL PROPERTIES	704 W BULLOCK AVE	ARTESIA NM 882102337	OPERATING RIGHTS	0.000000000
WESTALL OIL & GAS CO LLC	PO BOX 4	LOCO HILLS NM 882550004	OPERATING RIGHTS	0.000000000
WESTALL RAY	PO BOX 4	LOCO HILLS NM 88255	LESSEE	100.000000000
ZPZ DELAWARE I LLC	2000 POST OAK BLVD STE 100	HOUSTON TX 770564497	OPERATING RIGHTS	0.000000000

								Serial Number: NMNM-- - 092771		
Mer Twp	Rng	Sec	STyp	SNr Suff	Subdivision	District/Field Office	County	Mgmt Agency		
23	01905	0320E	008	ALIQ	NENE,W2E2,SW;	CARLSBAD FIELD OFFICE	LEA	BUREAU OF LAND MGMT		
23	01905	0320E	011	ALIQ	S2NW,SW,W2SE;	CARLSBAD FIELD OFFICE	LEA	BUREAU OF LAND MGMT		

						Serial Number: NMNM-- - 092771	
Act Date	Code	Action	Action Remark	Pending Office			
01/18/1994	387	CASE ESTABLISHED	9401083				
01/19/1994	191	SALE HELD					
01/19/1994	267	BID RECEIVED	\$52360.00;				
01/19/1994	392	MONIES RECEIVED	\$52360.00;				
02/04/1994	237	LEASE ISSUED					
02/04/1994	974	AUTOMATED RECORD VERIF		MCS/MV			
02/24/1994	111	RENTAL RECEIVED	\$1020.00;21/MULTIPLE				
03/01/1994	496	FUND CODE	05;145003				
03/01/1994	530	RLTY RATE - 12 1/2%					
03/01/1994	868	EFFECTIVE DATE					
03/02/1994	600	RECORDS NOTED					
02/03/1995	084	RENTAL RECEIVED BY ONRR	\$1020.00;21/000000003				
02/16/1996	084	RENTAL RECEIVED BY ONRR	\$1020.00;21/000000004				
01/21/1997	084	RENTAL RECEIVED BY ONRR	\$1020.00;21/000000005				
02/03/1997	932	TRF OPER RGTS FILED	WESTALL/ARCO				
03/12/1997	933	TRF OPER RGTS APPROVED	EFF 03/01/97;				
03/12/1997	974	AUTOMATED RECORD VERIF	JLV				
02/12/1998	084	RENTAL RECEIVED BY ONRR	\$1020.00;21/000000006				
02/03/1999	084	RENTAL RECEIVED BY ONRR	\$1360.00;21/000000007				
01/18/2000	084	RENTAL RECEIVED BY ONRR	\$1360;21/75				
04/05/2000	932	TRF OPER RGTS FILED	WESTALL/MARBOB				
04/18/2000	932	TRF OPER RGTS FILED	ATLANTIC/MARBOB				
06/09/2000	933	TRF OPER RGTS APPROVED	EFF 05/01/00;1				
06/09/2000	933	TRF OPER RGTS APPROVED	EFF 05/01/00;2				
06/09/2000	974	AUTOMATED RECORD VERIF	JLV				
02/16/2001	084	RENTAL RECEIVED BY ONRR	\$1360;21/91				
06/12/2001	650	HELD BY PROD - ACTUAL	/1/				
07/11/2001	643	PRODUCTION DETERMINATION	/1/				
07/11/2001	658	MEMO OF 1ST PROD-ACTUAL	/1/01;				
10/26/2001	899	TRF OF ORR FILED	WESTALL, RAY;1				

**DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
CASE RECORDATION
(MASS) Serial Register Page**

Run Time: 11:51 AM

Page 2 of 5

Run Date: 01/18/2017

01 12-22-1987;101STAT1330;30USC181 ET SE
Case Type 312021: O&G LSE COMP PD -1987
Commodity 459: OIL & GAS
Case Disposition: AUTHORIZED

Total Acres
160.000

Serial Number
NMNM-- - 095641

Serial Number: NMNM-- - 095641

Name & Address			Int Rel	% Interest
COG OPERATING LLC	600 W ILLINOIS AVE	MIDLAND TX 797014882	OPERATING RIGHTS	0.000000000
CONCHO OIL & GAS LLC	600 W ILLINOIS AVE, ONE CONCHO CEI	MIDLAND TX 797014882	OPERATING RIGHTS	0.000000000
ELM RIDGE EXPLORATION CO LLC	12225 GREENVILLE AVE STE 950	DALLAS TX 752430597	OPERATING RIGHTS	0.000000000
WESTALL RAY	PO BOX 4	LOCO HILLS NM 88255	LESSEE	100.000000000
ZPZ DELAWARE I LLC	2000 POST OAK BLVD STE 100	HOUSTON TX 770564497	OPERATING RIGHTS	0.000000000

Serial Number: NMNM-- - 095641

Mer Twp	Rng	Sec	STyp	SNr Suff	Subdivision	District/Field Office	County	Mgmt Agency
23	0190S	0320E	008	ALIQ	NW;	CARLSBAD FIELD OFFICE	LEA	BUREAU OF LAND MGMT

Serial Number: NMNM-- - 095641

Act Date	Code	Action	Action Remark	Pending Office
01/17/1995	600	RECORDS NOTED		
07/18/1995	387	CASE ESTABLISHED	9507135	
07/19/1995	191	SALE HELD		
07/19/1995	267	BID RECEIVED	\$14400.00;	
07/19/1995	392	MONIES RECEIVED	\$14400.00;	
08/10/1995	237	LEASE ISSUED		
08/10/1995	974	AUTOMATED RECORD VERIF	LBO	
08/22/1995	084	RENTAL RECEIVED BY ONRR	\$240.00;21/MULTIPLE	
09/01/1995	496	FUND CODE	05;145003	
09/01/1995	530	RLTY RATE - 12 1/2%		
09/01/1995	868	EFFECTIVE DATE		
09/18/1995	963	CASE MICROFILMED/SCANNED		JDS
08/22/1996	084	RENTAL RECEIVED BY ONRR	\$240.00;21/0000000050	
02/03/1997	932	TRF OPER RGTS FILED	WESTALL/ARCO	
03/12/1997	933	TRF OPER RGTS APPROVED	EFF 03/01/97;	
03/12/1997	974	AUTOMATED RECORD VERIF	JLV	
08/18/1997	084	RENTAL RECEIVED BY ONRR	\$240.00;21/0000000061	
08/13/1998	084	RENTAL RECEIVED BY ONRR	\$240.00;21/0000000067	
09/16/1999	084	RENTAL RECEIVED BY ONRR	\$240.00;11/73	
11/01/1999	791	TERMINAT'N NOTICE ISSUED	CLASS II;	
11/01/1999	974	AUTOMATED RECORD VERIF	GSB	
01/11/2000	791	TERMINAT'N NOTICE ISSUED	CLASS I;	
01/11/2000	792	TERMINATION VACATED	CLASS II;	
01/11/2000	974	AUTOMATED RECORD VERIF	LBO	
01/18/2000	284	REINSTATEMENT FILED		
01/31/2000	282	REINSTATEMENT APPROVED	CLASS I EFF 9/1/00;	
01/31/2000	974	AUTOMATED RECORD VERIF	LBO	
04/05/2000	932	TRF OPER RGTS FILED	WESTALL/MARBOB	
04/18/2000	932	TRF OPER RGTS FILED	ATLANTIC/MARBOB	
06/09/2000	933	TRF OPER RGTS APPROVED	01EFF 05/01/00;	
06/09/2000	933	TRF OPER RGTS APPROVED	02EFF 05/01/00;	
06/09/2000	974	AUTOMATED RECORD VERIF	JLV	

NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA FOR PURPOSES NOT INTENDED BY BLM

**DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
CASE RECORDATION
(MASS) Serial Register Page**

Run Time: 11:51 AM

Page 4 of 5

Run Date: 01/18/2017

01 12-22-1987;101STAT1330;30USC181 ET SE
Case Type 312021: O&G LSE COMP PD -1987
Commodity 459: OIL & GAS
Case Disposition: AUTHORIZED

Total Acres 80.000
Serial Number NMNM-- - 107391

Serial Number: NMNM-- - 107391

Name & Address		Int Rel	% Interest
CHEVRON MIDCONTINENT LP	6301 DEAUVILLE	MIDLAND TX 797062964	OPERATING RIGHTS 0.000000000
ECHO PROD INC	PO BOX 1210	GRAHAM TX 76450	LESSEE 100.000000000
LATIGO PETROLEUM INC	15 W 6TH ST #1100	TULSA OK 74119	OPERATING RIGHTS 0.000000000
OXY USA INC	5 GREENWAY PLZ #110	HOUSTON TX 770460521	OPERATING RIGHTS 0.000000000
TALUS INC	PO BOX 1210	GRAHAM TX 76450	OPERATING RIGHTS 0.000000000
THE ALLAR CO	PO BOX 1567	GRAHAM TX 76450	OPERATING RIGHTS 0.000000000
TWIN MONTANA INC	BOX 1210	GRAHAM TX 76450	OPERATING RIGHTS 0.000000000

Serial Number: NMNM-- - 107391

Mer Twp	Rng	Sec	STyp	SNr Suff	Subdivision	District/Field Office	County	Mgmt Agency
23	0190S	0320E	005	ALIQ	E2SW;	CARLSBAD FIELD OFFICE	LEA	BUREAU OF LAND MGMT

Serial Number: NMNM-- - 107391

Act Date	Code	Action	Action Remark	Pending Office
10/16/2001	387	CASE ESTABLISHED	200110098	
10/17/2001	191	SALE HELD		
10/17/2001	267	BID RECEIVED	\$60000.00;	
10/17/2001	392	MONIES RECEIVED	\$60000.00;	
11/14/2001	237	LEASE ISSUED		
11/14/2001	974	AUTOMATED RECORD VERIF	GSB	
12/01/2001	496	FUND CODE	05;145003	
12/01/2001	530	RLTY RATE - 12 1/2%		
12/01/2001	868	EFFECTIVE DATE		
01/28/2002	963	CASE MICROFILMED/SCANNED		
06/03/2002	899	TRF OF ORR FILED	ECHO PRODUCTION INC;1	
11/12/2002	932	TRF OPER RGTS FILED	ECHO PRODUCTION INC;1	
01/30/2003	933	TRF OPER RGTS APPROVED	EFF 12/01/02;	
01/30/2003	974	AUTOMATED RECORD VERIF	MV	
04/30/2003	817	MERGER RECOGNIZED	KUKUI INC/ANIMAS ENE	
06/27/2003	932	TRF OPER RGTS FILED	ANIMAS/SAGA;	
07/29/2003	933	TRF OPER RGTS APPROVED	EFF 07/01/03;	
07/29/2003	974	AUTOMATED RECORD VERIF	MV	
07/12/2004	932	TRF OPER RGTS FILED	SAGA PETRO/LATIGO	
08/20/2004	933	TRF OPER RGTS APPROVED	EFF 08/01/04;	
08/20/2004	974	AUTOMATED RECORD VERIF	MV	
10/19/2006	650	HELD BY PROD - ACTUAL	/1/	
12/08/2006	932	TRF OPER RGTS FILED	LATIGO PE/CHEVRON M;1	
02/05/2007	643	PRODUCTION DETERMINATION	/1/	
02/05/2007	658	MEMO OF 1ST PROD-ACTUAL	/1/#1 BONANZA FED;	
02/13/2007	933	TRF OPER RGTS APPROVED	EFF 01/01/07;	
02/13/2007	974	AUTOMATED RECORD VERIF	MV	
03/31/2008	932	TRF OPER RGTS FILED	LATIGO PETR/OXY USA;1	
05/13/2008	933	TRF OPER RGTS APPROVED	EFF 04/01/08;	
05/13/2008	974	AUTOMATED RECORD VERIF	ANN	
01/08/2009	932	TRF OPER RGTS FILED	LATIGO PETR/OXY USA;1	

KING AIR 8 FEDERAL COM 4H BATTERY
 SWSW SECTION 8, T19S, R32E, UNIT M
 LEA COUNTY, NM

WELLS:
 KING AIR 8 FEDERAL COM #004H: 30-025-42200

Production Phase - Oil Tank #1

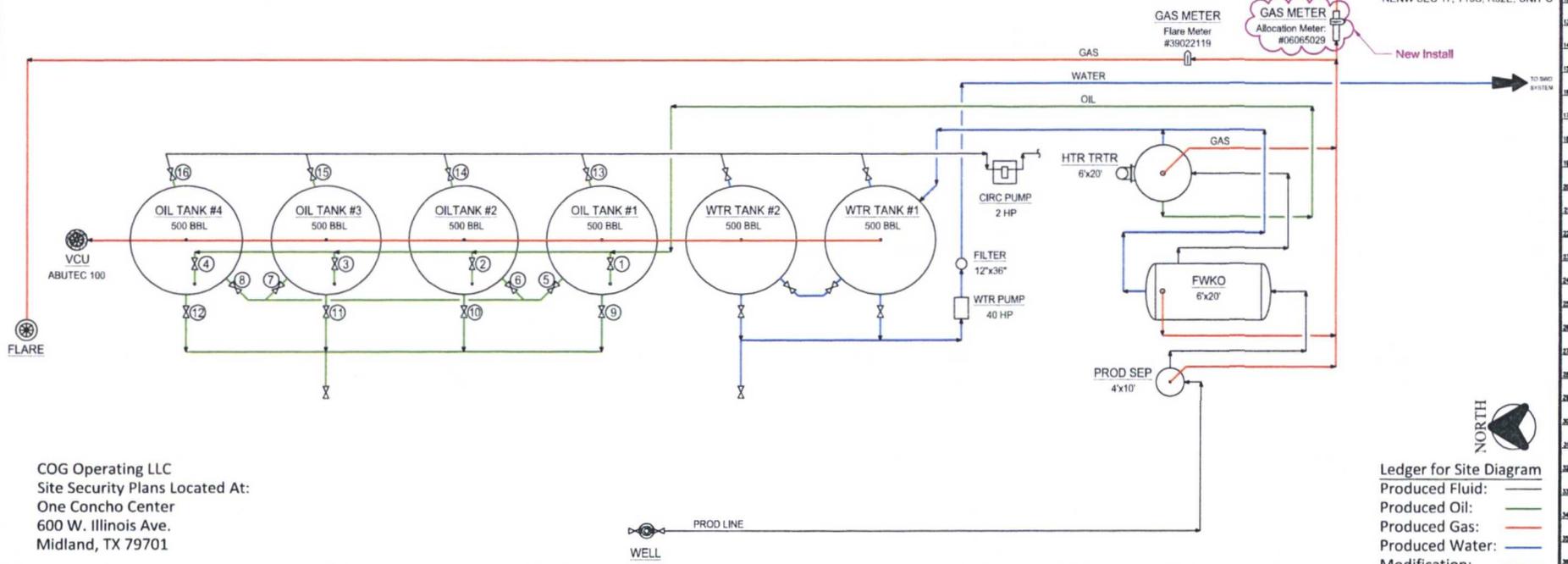
- Valve 1 open
- Valves 2, 3, and 4 closed
- Valves 5, 6, 7, and 8 open
- Valves 9, 10, 11, and 12 closed
- Valve 13 open
- Valves 14, 15, and 16 closed

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

TO FRONTIER GAS SALES LINE
 METER #06065029 LOCATED:
 FED LEASE # NMNM 095641
 NENW SEC 8, T19S, R32E, UNIT C

FROM KING AIR 8 FED COM
 3H BATTERY LOCATED:
 FED LEASE #: NMNM 036100
 NENW SEC 17, T19S, R32E, UNIT C



COG Operating LLC
 Site Security Plans Located At:
 One Concho Center
 600 W. Illinois Ave.
 Midland, TX 79701

NORTH

Ledger for Site Diagram

Produced Fluid: —

Produced Oil: —

Produced Gas: —

Produced Water: —

Modification: —

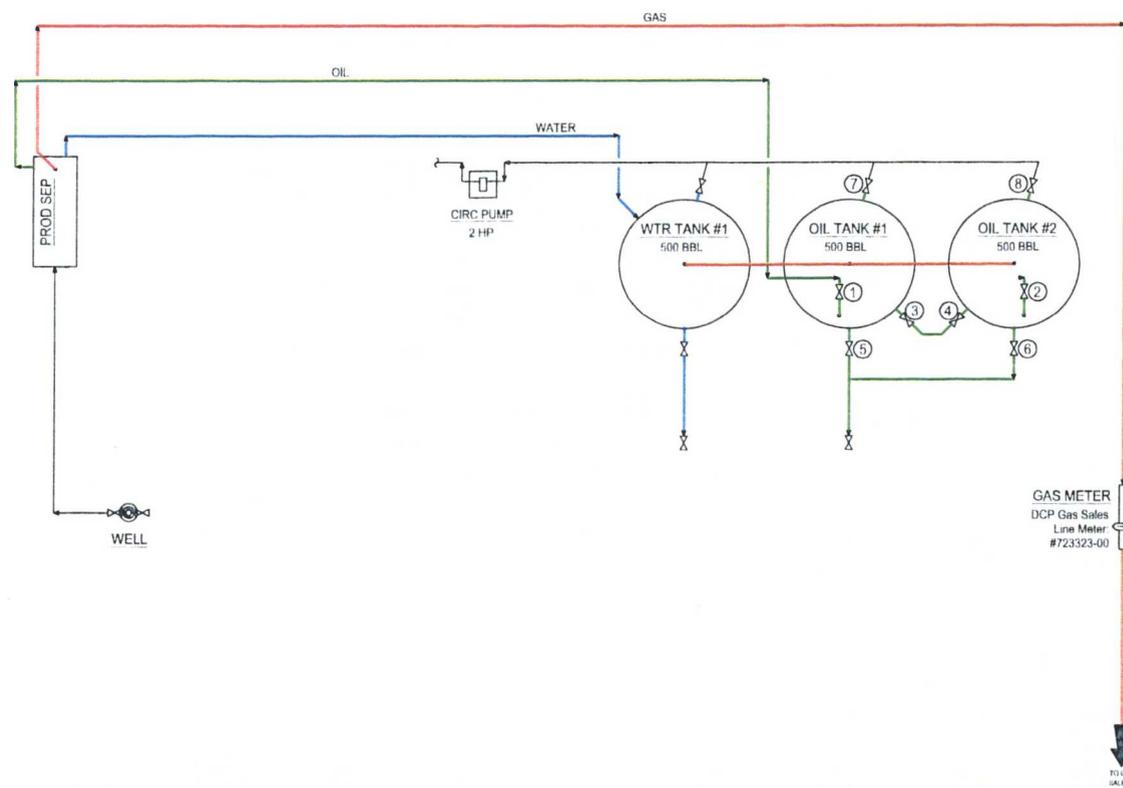
NOTES: Type of Lease: Federal Federal Lease SHL #: NMNM 092771 CA/Agreement #: NMNM 134754 Property Code: 40109 OGRID #: 229137	CONFIDENTIALITY NOTICE THIS DRAWING IS PROPERTY OF COG OPERATING LLC AND IS LOANED TO THE BORROWER FOR CONFIDENTIAL USE ONLY AND IS SUBJECT TO RETURN UPON REQUEST AND SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISPOSED OF OR USED FOR ANY PURPOSE OTHER THAN THAT WHICH IT IS SPECIFICALLY FURNISHED.	REFERENCE DRAWINGS		REVISIONS			ENGINEERING RECORD			
		NO.	TITLE	NO.	DATE	DESCRIPTION	BY	CHK.	APP.	BY
			A	06/01/12	ISSUE FOR SITE PERMITTING	CHB			CHB	06/01/12
			B	06/23/18	UPDATED FOR KING AIR 8 FED 4H BTY	CHB			CHB	06/01/12
		COG OPERATING LLC 800 WEST ILLINOIS AVENUE MIDLAND, TEXAS 79701					CONCHO NEW MEXICO SHELF ASSET PRODUCTION FACILITIES SITE FACILITY DIAGRAM KING AIR 8 FEDERAL COM 4H BATTERY			
							LEA COUNTY: NEW MEXICO TOWNSHIP/RANGE: MULTIPLE SCALE: NONE DWG NO.: D-1700-81-005 REV: B			

TBM FEDERAL COM 1 BATTERY
 NENW SECTION 8, T19S, R32E, UNIT C
 LEA COUNTY, NM

WELLS:
 TBM FEDERAL COM #001: 30-025-37343

- Production Phase - Oil Tank #1**
- Valve 1 open
 - Valve 2 closed
 - Valves 3 and 4 open
 - Valves 5 and 6 closed
 - Valve 7 open
 - Valve 8 closed

- Sales Phase - Oil Tank #1**
- Valve 1 closed
 - Valve 2 open
 - Valves 3 and 4 closed
 - Valve 5 open
 - Valve 6 closed
 - Valve 7 closed
 - Valve 8 open



COG Operating LLC
 Site Security Plans Located At:
 One Concho Center
 600 W. Illinois Ave.
 Midland, TX 79701

FROM KING AIR 8 FED COM
 4H BATTERY LOCATED:
 FED LEASE # NMNM 092771
 SWSW SEC 8, T19S, R32E, UNIT M

Ledger for Site Diagram

Produced Fluid: — (black line)
 Produced Oil: — (green line)
 Produced Gas: — (red line)
 Produced Water: — (blue line)

NOTES:

Type of Lease: Federal
 Federal Lease #: NMNM 095641
 CA/Agreement #: NMNM 114006
 Property Code: 308439
 OGRID #: 229137

CONFIDENTIALITY NOTICE		REFERENCE DRAWINGS		REVISIONS			ENGINEERING RECORD		
NO.	TITLE	NO.	DATE	DESCRIPTION	BY	CHK.	APP.	BY	DATE
		A	06/01/12	ISSUE FOR SITE FORMATING	CRB			CRB	06/01/12
		B	01/05/17	UPDATED FOR TBM FED COM 1 BTY	CMR			CRB	06/01/12
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 UNLESS OR INAPPROPRIATELY, FOR USE FOR ANY PURPOSE OTHER THAN THAT WHICH IT IS SPECIFICALLY FURNISHED.		COG OPERATING LLC 600 WEST ILLINOIS AVENUE MIDLAND, TEXAS 79701					AFE NO.: FACI ENGR: C. BLEDSOE OPER ENGR: VARIES SCALE: NONE		

CONCHO

NEW MEXICO BASIN ASSET
 PRODUCTION FACILITIES
 SITE FACILITY DIAGRAM
 TBM FEDERAL COM 1 BATTERY

LEA COUNTY NEW MEXICO

TWNSHIP/RANGE: MULTIPLE
 DWG NO: D-1700-81-005
 REV: B

King Air 8 Federal Com #3H API# 30-025-41476
King Air 8 Federal Com #4H API# 30-025-42200

Owner Notification List

Date Sent	Initials	Well	Sent Certified Return Receipt to:	Receipt No.	Rec'd
02/01/17	DLW	3H & 4H	Randall L. Harris, 439 W. James Funk Road, Artesia, NM 88210	9590 9402 2182 6193 5579 99	
02/01/17	DLW	3H	Sandra M. Thoma, 8530 Mill Run Road, Athens, TX 75751	9590 9402 2182 6193 5579 82	
02/01/17	DLW	4H	BP American Production Company, P. O. Box 591, Tulsa, OK 75102	9590 9402 2182 6193 5579 75	
02/01/17	DLW	3H	Cornerstone Family Trust, John Lawrence Thoma, Trustee, P. O. Box 17656, Golden, CO 80403	9590 9402 2182 6193 5579 68	
02/01/17	DLW	3H	HH & P Energy LLC, P. O. Box 687, Graham, TX 76450	9590 9402 2182 6193 5579 51	
02/01/17	DLW	3H	Limpinbear Family Partnership, Ltd., 600 17th St., Ste 1700N, Denver, CO 80202	9590 9402 2182 6193 5579 44	
02/01/17	DLW	3H	Morse Family Security Trust, 410 17th St., Suite 1150, Denver, CO 80202	9590 9402 2182 6193 5579 37	
02/01/17	DLW	3H & 4H	Nestegg Energy Corporation, 2308 Sierra Vista Road, Artesia, NM 88210	9590 9402 2182 6193 5579 20	
02/01/17	DLW	3H & 4H	Ray Westall Operating, Inc., Ray Westall, P. O. Box 4, Loco Hills, NM 88255	9590 9402 2182 6193 5579 13	
02/01/17	DLW	3H	The Allar Company, P. O. Box 1567, Graham, TX 75450	9590 9402 2182 6193 5579 06	
02/01/17	DLW	3H	Twin Montana, Inc. & Talus, Inc., P. O. Box 1210, Graham, TX 76450	9590 9402 2182 6193 5578 90	
02/01/17	DLW	3H & 4H	JPZ Delaware LLC, 303 Veterans Airpark Lane, Suite 3000, Midland, TX 79705	9590 9402 2182 6193 5575 31	

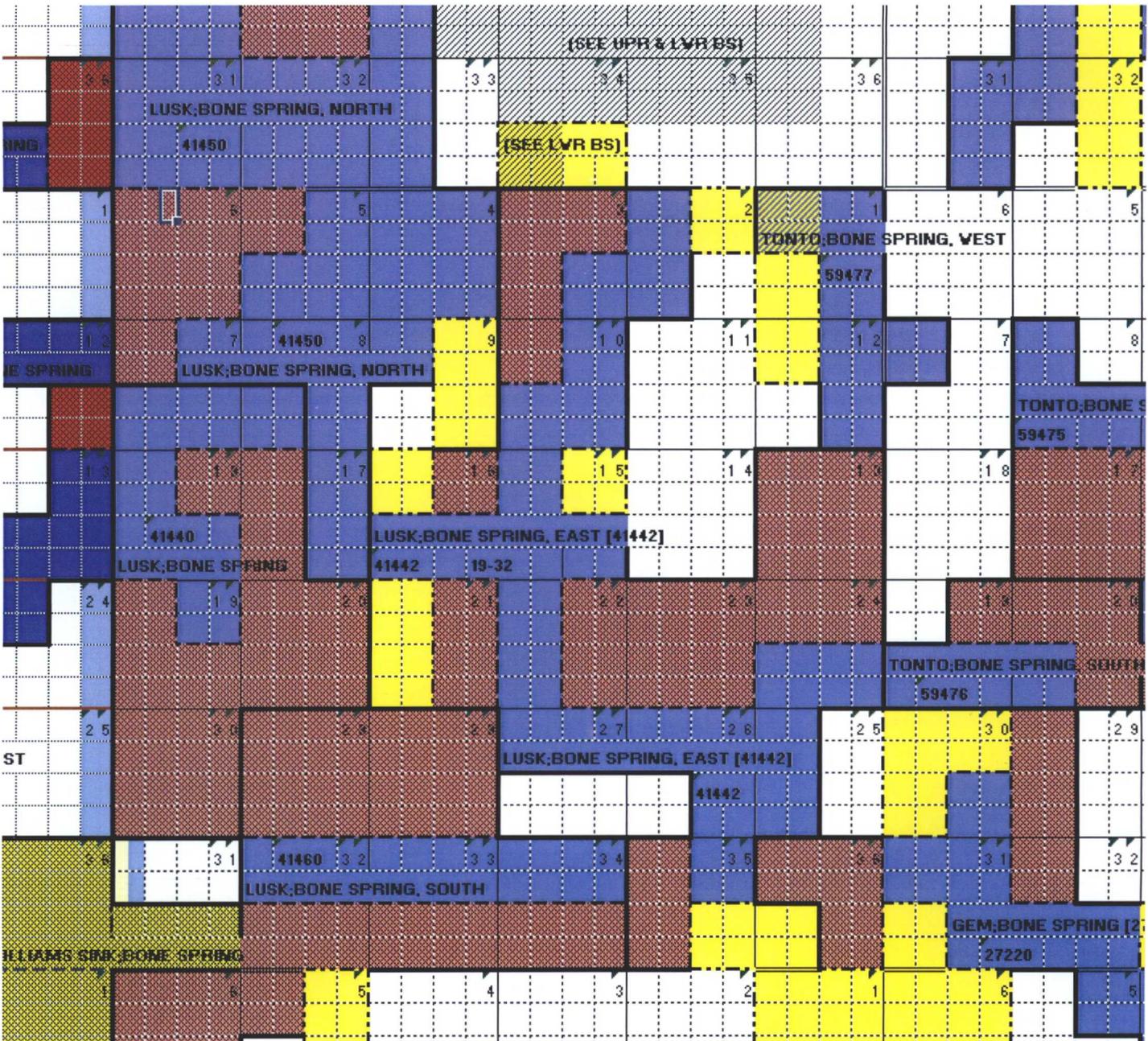
Mailed 2/1/17
 Debora L. Wilbourn

McMillan, Michael, EMNRD

From: Kautz, Paul, EMNRD
Sent: Thursday, February 16, 2017 9:35 AM
To: McMillan, Michael, EMNRD
Subject: RE: Pool designation for the COG Operating King Air 8 Fed Com Well No.3H and King Air and Fed Com Well No. 4H

Hi Michael,

This area is very complicated by pools with boundaries established by vertical wells which was later developed by horizontal wells.



As the pool boundaries are presently drawn both the COG Operating King Air 8 Fed Com Well No.3H and King Air and Fed Com Well No. 4H are in the LUSK;BONE SPRING, NORTH [41450] and the LUSK;BONE SPRING [41440]. Since the vertical wells are plugged in the SW/4 of section 8 it is planned to contract the SW/4 from the LUSK;BONE SPRING [41440] and extend the LUSK;BONE SPRING, NORTH [41450] to include the SW/4 of Section 8. By doing this both wells will be entirely in the LUSK;BONE SPRING, NORTH [41450].

Paul Kautz
Hobbs District Geologist
Energy Minerals Natural Resources Dept.
Oil Conservation Division
1625 N. French Dr.
Hobbs, NM 88240
575-393-6161 ext. 104

From: McMillan, Michael, EMNRD
Sent: Thursday, February 16, 2017 8:32 AM
To: Kautz, Paul, EMNRD <paul.kautz@state.nm.us>
Subject: Pool designation for the COG Operating King Air 8 Fed Com Well No.3H and King Air and Fed Com Well No. 4H

Paul:
Can you check the pool designation for the COG King Air 8 Fed Com Well No.3H and King Air and Fed Com Well No. 4H?

King Air 8 Federal Com Well No. 3H (API 30-025-41476) is designated in the Lusk; Bone Spring, North Pool (Pool code 41450).

King Air 8 Federal Com Well No. 4H (API 30-025-42200) is designated in the Lusk; Bone Spring Pool (Pool code 41440).

Mike

MICHAEL A. MCMILLAN
Engineering Bureau, Oil Conservation Division
1220 south St. Francis Dr., Santa Fe NM 87505
O: 505.476.3448
Michael.McMillan@state.nm.us

Production Summary Report
API: 30-025-41476
KING AIR 8 FEDERAL COM #003H

		Production				
Year	Pool	Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days P/I
2016	[41450] LUSK;BONE SPRING, NORTH	Nov	98	108	2165	3
2016	[41450] LUSK;BONE SPRING, NORTH	Dec	10192	30504	2165	3
CUM			10290	30612		

Production Summary Report
API: 30-025-42200
KING AIR 8 FEDERAL COM #004H

		Production				
Year	Pool	Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days P/I
2016	[41440] LUSK;BONE SPRING	Jun	1094	1462	2288	30
2016	[41440] LUSK;BONE SPRING	Jul	1147	1646	2442	31
2016	[41440] LUSK;BONE SPRING	Aug	1138	1614	2689	31
2016	[41440] LUSK;BONE SPRING	Sep	1032	1529	2171	30
2016	[41440] LUSK;BONE SPRING	Oct	278	399	535	10
2016	[41440] LUSK;BONE SPRING	Nov	732	766	1280	15
2016	[41440] LUSK;BONE SPRING	Dec	1162	1282	1280	15
CUM			48493	71212		

King Air 8 Federal Com #3H API# 30-025-41476
King Air 8 Federal Com #4H API# 30-025-42200

Owner Notification List

Date Sent	Initials	Well	Sent Certified Return Receipt to:	Receipt No.	Rec'd
02/22/17	DLW	3H & 4H	Randall L. Harris, 439 W. James Funk Road, Lake Arthur, NM 88253	9590 9402 2182 6193 5575 24	
02/01/17	DLW	3H	Sandra M. Thoma, 8530 Mill Run Road, Athens, TX 75751	9590 9402 2182 6193 5579 82	02/07/17
02/01/17	DLW	4H	BP American Production Company, P. O. Box 591, Tulsa, OK 75102	9590 9402 2182 6193 5579 75	returned addressee unkown
02/01/17	DLW	3H	Cornerstone Family Trust, John Lawrence Thoma, Trustee, P. O. Box 17656, Golden, CO 80403	9590 9402 2182 6193 5579 68	
02/01/17	DLW	3H	HH & P Energy LLC, P. O. Box 687, Graham, TX 76450	9590 9402 2182 6193 5579 51	02/07/17
02/01/17	DLW	3H	Limpinbear Family Partnership, Ltd., 600 17th St., Ste 1700N, Denver, CO 80202	9590 9402 2182 6193 5579 44	02/07/17
02/01/17	DLW	3H	Morse Family Security Trust, 410 17th St., Suite 1150, Denver, CO 80202	9590 9402 2182 6193 5579 37	02/06/17
02/01/17	DLW	3H & 4H	Nestegg Energy Corporation, 2308 Sierra Vista Road, Artesia, NM 88210	9590 9402 2182 6193 5579 20	02/06/17
02/01/17	DLW	3H & 4H	Ray Westall Operating, Inc., Ray Westall, P. O. Box 4, Loco Hills, NM 88255	9590 9402 2182 6193 5579 13	02/06/17
02/01/17	DLW	3H	The Allar Company, P. O. Box 1567, Graham, TX 75450	9590 9402 2182 6193 5579 06	02/07/17
02/01/17	DLW	3H	Twin Montana, Inc. & Talus, Inc., P. O. Box 1210, Graham, TX 76450	9590 9402 2182 6193 5578 90	02/07/17
02/01/17	DLW	3H & 4H	ZPZ Delaware LLC, 303 Veterans Airpark Lane, Suite 3000, Midland, TX 79705 <i>(BP American Interest)</i>	9590 9402 2182 6193 5575 31	

Mailed 2/1/17
 Debora L. Wilbourn

March 1, 2017

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

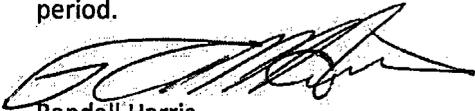
Re: Pool/Surface Lease Commingle and Off-Lease Measurement

King Air 8 Federal Com #3H
Lusk; Bone Spring, North (41450)
Sec. 17-T19S-R32E
API# 30-025-41476
Lease# NMNM092771, NMNM095641, NMNM107391
Lea County, NM

King Air 8 Federal Com #4H
Lusk; Bone Spring (41440)
Sec. 8-T19S-R32E
API# 30-025-42200
Lease# NMNM092771, NMNM095641
Lea County, NM

Gentlemen:

I have no objection to the proposed gas measurement configuration and waive the 20 day waiting period.



Randall Harris
439 W James Funk RD
Lake Arthur, NM 88253

575.365.2237