

RECEIVED: <u>1/17/2014</u>	REVIEWER: <u>hkm</u>	TYPE: <u>NSL</u>	APP NO: <u>PMNH1901743104</u>
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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: COG Operating LLC

OGRID Number: 229137

Well Name: Fez Federal Com 711H

API: 30-025-Pending

Pool: Wolfcamp

Pool Code: 98098

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

NSL 78241) **TYPE OF APPLICATION:** Check those which apply for [I]

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☐ PPR2) **NOTIFICATION REQUIRED TO:** Check those which apply.A. ☒ Offset operators or lease holdersB. ☐ Royalty, overriding royalty owners, revenue ownersC. ☐ Application requires published noticeD. ☐ Notification and/or concurrent approval by SLOE. ☐ Notification and/or concurrent approval by BLMF. ☐ Surface ownerG. ☒ 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.

Debora L. Wilbourn

Print or Type Name

Signature

Date

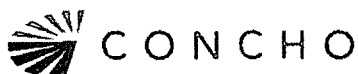
1/15/19

575-748-6958

Phone Number

dwilbourn@concho.com

e-mail Address



January 15, 2019

Oil Conservation Division
Attention: Mr. Leonard Lowe
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

Re: Application for Nonstandard Wellbore Location
Fez Federal Com #711H
SHL: 330' FSL 2390' FEL (Unit O), Section 9-T25S-R35E
Proposed FTP: 100' FSL 2580' FEL (Unit O), Section 9-T25S-R35E
BHL: 50' FNL 2580' FEL (Lot 2), Section 4-T25S-R35E
Proposed LTP: 100' FNL 2580' FEL (Lot 2), Section 4-T25S-R35E
Lea County, New Mexico

Dear Mr. Lowe:

Pursuant to Division Rule 19.15.15.13, COG Operating LLC (COG) respectfully requests administrative approval of a non-standard wellbore location for its Fez Federal Com #711H well. The producing interval of this well does not meet the requirement of the producing area being 330' from the outer boundary. Attached is a Form C-102 showing the project/producing area of this well.

COG is seeking approval of the unorthodox location in order to maximize recovery of reserves. The New Mexico Oil Conservation Division's approval of the unorthodox completed interval for the Fez Federal Com #711H well will allow for efficient recovery of reserves, thereby preventing waste and improving well performance.

The affected offset tract is W/2 of both Sections 4, 9-T25S-R35E. COG is the operator of the offset tract, so the other working interest owner has been notified by Certified Mail of the proposed non-standard location. The notice letter advises said owner that in the event they have an objection to COG's application, they must file a written letter with the Division within twenty (20) days from the date the Division receives this application.

Thank you for your consideration of this application. Should you have questions or require further information, please contact me at 575-748-6958 or by email at dwilbourn@concho.com.

Sincerely,

Debora L. Wilbourn
Production Compliance Lead

Enclosure
cc: OCD Hobbs

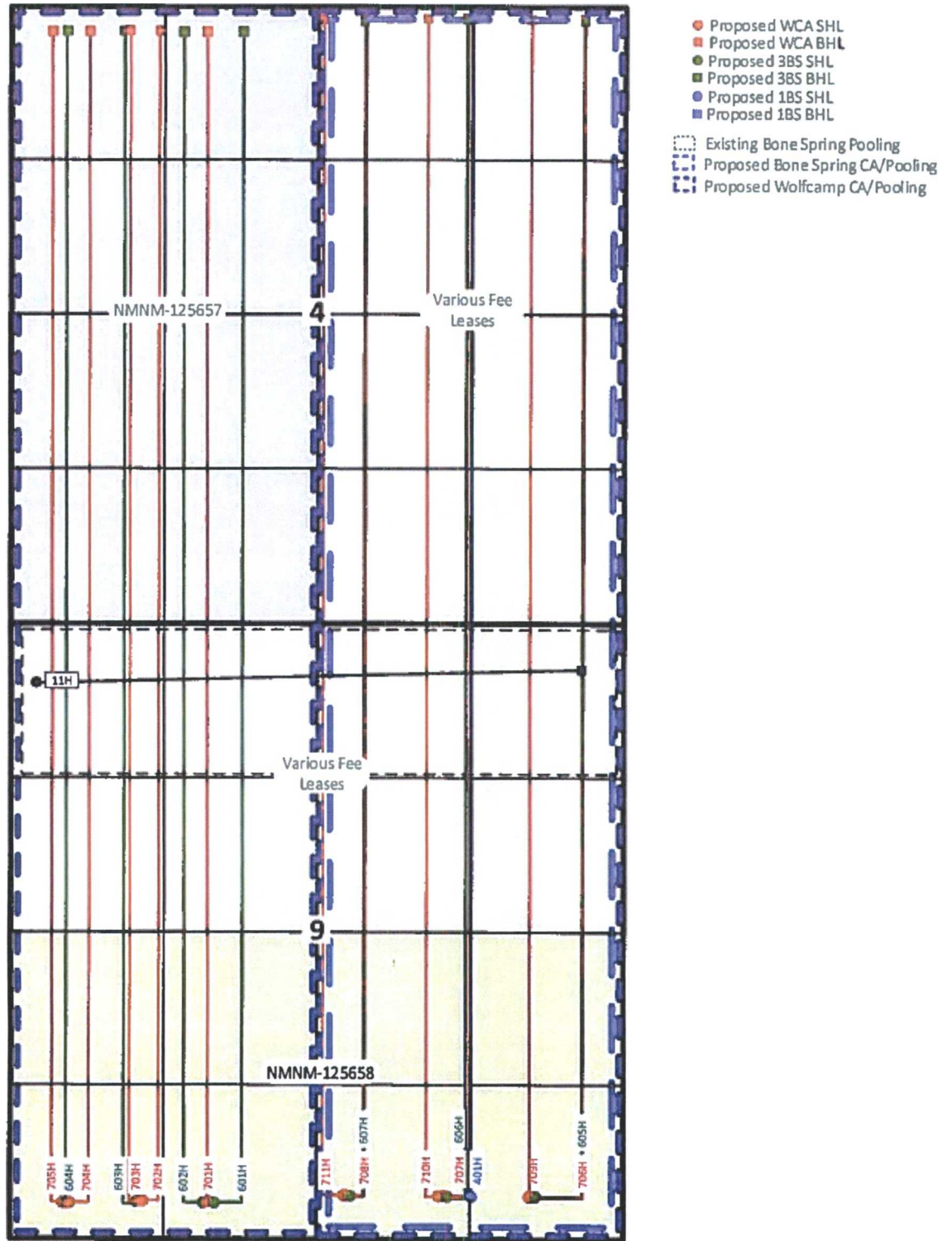
CORPORATE ADDRESS

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

Fez Federal Wells



Sec. 4, 9-T25S-R35E
Lea County, NM

DISTRICT I
1825 N. FRENCH DR., BOBBS, NM 88240
Phone: (505) 334-8181 Fax: (505) 334-8720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 748-1283 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) 476-3450 Fax: (505) 476-3452

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name Wolfcamp
Property Code	Property Name FEZ FEDERAL COM	Well Number 711H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3243.2'

Surface Location

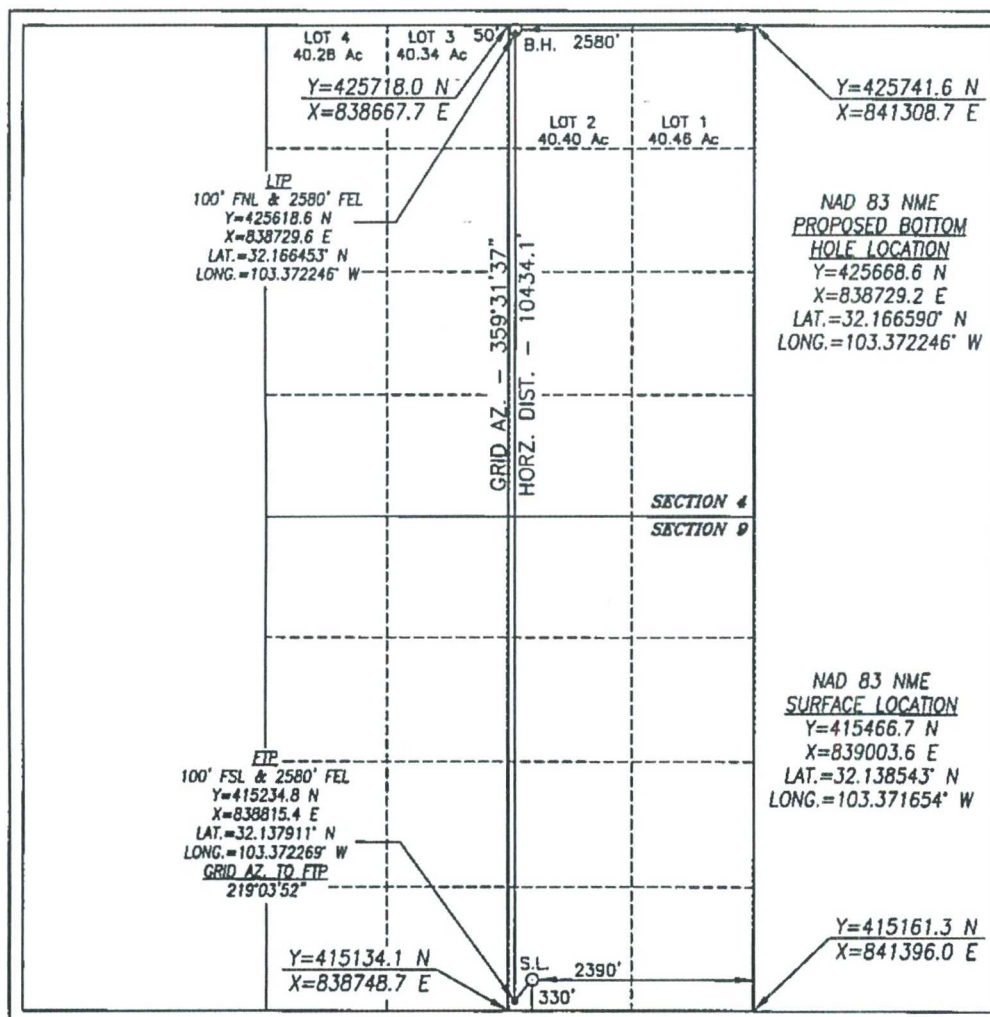

UL or lot No. 0	Section 9	Township 25-S	Range 35-E	Lot Idn	Feet from the 330	North/South line SOUTH	Feet from the 2390	East/West line EAST	County LEA
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Bottom Hole Location If Different From Surface

UL or lot No. 2	Section 4	Township 25-S	Range 35-E	Lot Idn	Feet from the 50	North/South line NORTH	Feet from the 2580	East/West line EAST	County LEA
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Dedicated Acres 640	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<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 11/15/19</p> <p>Debora L. Wilbourn Printed Name dwilbourn@concho.com 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>NOVEMBER 14, 2018 Date of Survey</p> <p>Signature & Seal of Professional Surveyor</p> <p> Chad L. Harcrow 12/22/18 Certificate No. CHAD HARCROW 17777 W.O. # 18-1354 DRAWN BY: VD</p>
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Fez Federal Com #711H





January 15, 2019

V-F Petroleum
P. O. Box 1889
Midland, TX 79702

Certified Mail – Return Receipt Request
7017 3040 0000 2540 4065

Re: Application for Nonstandard Wellbore Location
Fez Federal Com #711H
SHL: 330' FSL 2390' FEL (Unit O), Section 9-T25S-R35E
Proposed FTP: 100' FSL 2580' FEL (Unit O), Section 9-T25S-R35E
BHL: 50' FNL 2580' FEL (Lot 2), Section 4-T25S-R35E
Proposed LTP: 100' FNL 2580' FEL (Lot 2), Section 4-T25S-R35E
Lea County, New Mexico

Gentlemen:

Attached is a copy of COG Production LLC (COG)'s Application for Unorthodox Well Location for the Fez Federal Com #711H well, the SHL of which is located in Section 9-T25S-R35E, Lea County, New Mexico. You are being provided a copy of this Application per OCD's requirement to notify the operators/working interest owners of the affected offset acreage. If you have any objection to this Application, notification should be given to OCD within 20 days of receipt of this letter.

COG is seeking approval of the unorthodox location in order to allow for the efficient recovery of reserves, thereby preventing waste.

If you have any questions regarding this application, please contact Megan Tipton at (432) 685-2588 or Sean Johnson at (432) 818-2230 or by email at mtipton@concho.com or sjohnson@concho.com.

Sincerely,

A handwritten signature in cursive script that reads "Debora L. Wilbourn".

Debora L. Wilbourn
Production Compliance Lead

Enclosure

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

Fez Federal Com #711H – Offset WI Owners

WI Owners

V-F Petroleum, Inc.
Attention: Jerry M. Gahr
P.O. Box 1889
Midland, Texas 79702

Certified Return Receipt No. Delivered

7017 3040 0000 2540 4065

Fez Federal Com 711H

Engineering Statement for NSL Application

The Fez Federal Com 706H, 707H, 708H, 709H, 710H, and 711H wells are part of a development project in which COG Operating LLC (COG) will test reduced spacing in the Wolfcamp A Shale interval. There are a total of 11 wells in Sec. 4, 9-T25S-R35E that will be testing this reduced spacing.

Approval of the NSL for the Fez Federal Com 711H well will provide adequate spacing for the planned spacing test and will allow economic recovery along with the co-development of the other wells in the section. By testing the viability of simultaneous development on reduced spacing within a single interval, COG is attempting to maximize recoverable resources from the interval and minimize waste created, should we not simultaneously develop these targets.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010WELL COMPLETION OR RECOMPLETION REPORT AND LOGS
HOBBS OCD5. Lease Serial No.
NMNM101608

- 1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator
COG OPERATING LLC

Contact: STORMI DAVIS

8. Lease Name and Well No.
MONTERA FEDERAL 23H3. Address ONE CONCHO CENTER 600 W ILLINOIS AVENUE
MIDLAND, TX 79701-42873a. Phone No. (include area code)
Ph: 575.748.69469. API Well No.
30-025-43924-00-S1

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface Sec 10 T25S R35E Mer NMP

SESW 190FSL 1650FWL 32.138161 N Lat, 103.358604 W Lon

At top prod interval reported below Sec 10 T25S R35E Mer NMP

SESW 330FSL 1980FWL 32.138542 N Lat, 103.357536 W Lon

At total depth Sec 3 T25S R35E Mer NMP

NESW 2438FSL 1979FWL

10. Field and Pool, or Exploratory
WOLFCAMP11. Sec., T., R., M., or Block and Survey
or Area Sec 10 T25S R35E Mer NMP12. County or Parish
LEA13. State
NM14. Date Spudded
12/04/201715. Date T.D. Reached
01/11/201816. Date Completed
☐ D & A ☒ Ready to Prod.
05/02/201817. Elevations (DF, KB, RT, GL)*
3221 GL18. Total Depth: MD 19659
TVD 1231519. Plug Back T.D.: MD 19550
TVD 1230820. Depth Bridge Plug Set: MD 19550
TVD 1230821. Type Electric & Other Mechanical Logs Run (Submit copy of each)
NONE22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
13.500	10.750 L80	45.5	0	1000		750		0	
6.750	5.500 P110	23.0	0	11163		1565		0	
9.875	7.625 P110	29.7	0	11694	5246	1825		0	
6.750	5.000 P110	18.0	11163	19650					

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	11382	11374						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	12558	19525	12558 TO 19468	0.000	2024	OPEN
B)			19515 TO 19525		60	OPEN
C)						
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
12558 TO 19468	SEE ATTACHED

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
05/04/2018	05/05/2018	24	→	403.0	163.0	2325.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
17/64	SI 3800	2200.0	→	403	163	2325			

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #421024 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

ACCEPTED FOR RECORD

AUG 11 2018
Mirah Aguiar
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Reclamation Due: 11/2/2018

K2

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
DELAWARE	5241	5274		RUSTLER	729
BELL CANYON	5275	6244		TOP OF SALT	1076
CHERRY CANYON	6245	7715		BASE OF SALT	4841
BRUSHY CANYON	7716	8955		DELAWARE	5241
BONE SPRING LIME	8956	10285		BELL CANYON	5275
BONE SPRING 1ST	10286	10882		CHERRY CANYON	6245
BONE SPRING 2ND	10883	11897		BRUSHY CANYON	7716
BONE SPRING 3RD	11898	12394		BONE SPRING LIME	8956

32. Additional remarks (include plugging procedure):
Additional Tops: Wolfcamp 12395'

Perfs-Stimulation and Surveys attached.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #421024 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Hobbs
Committed to AFMSS for processing by DUNCAN WHITLOCK on 05/25/2018 (18DW0180SE)

Name (please print) STORMI DAVIS

Title REGULATORY ANALYST

Signature _____ (Electronic Submission)

Date 05/22/2018

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.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87401
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3466 Fax: (505) 476-3463

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT
(As Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-4392		² Pool Code 17980	³ Pool Name Dogie Draw; Wolfcamp
⁴ Property Code 319402	⁵ Property Name Montera Federal		⁶ Well Number 23H
⁷ OGRID No. 229137	⁸ Operator Name COG Operating LLC		⁹ Elevation 3221' GR

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	10	25S	35E		190	South	1650	West	Lea

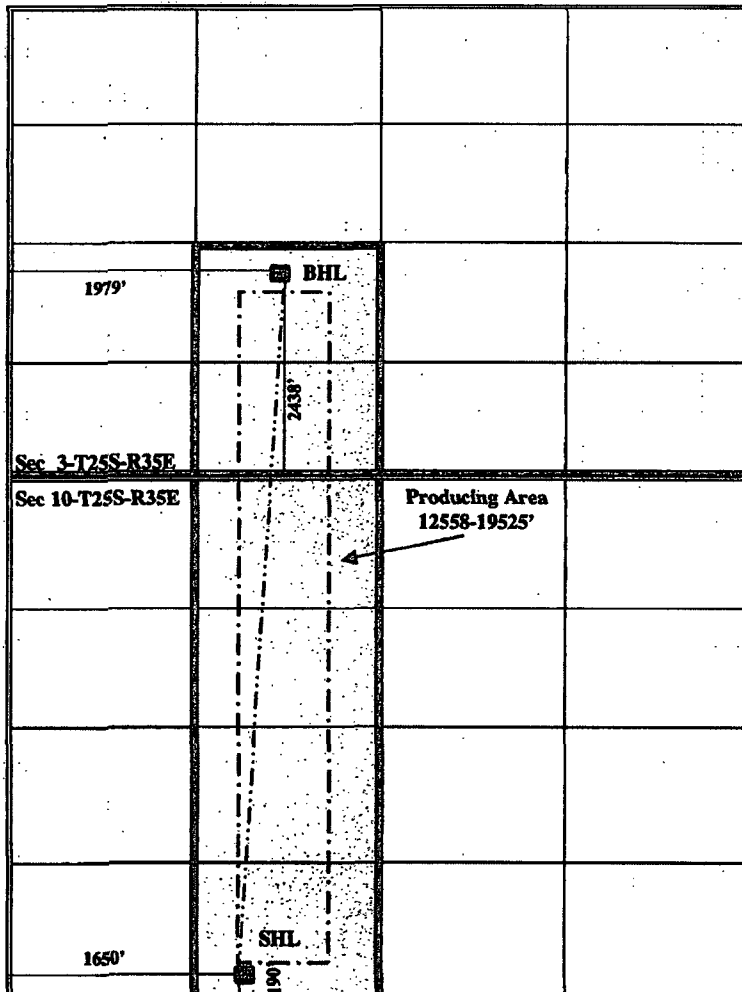
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	3	25S	35E		2438	South	1979	West	Lea

¹² Dedicated Acres 240	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

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¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Stormi Davis 5/17/18
Signature Date

Stormi Davis

Printed Name

sdavis@concho.com

E-mail Address

¹⁸ 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.

Date of Survey

Signature and Seal of Professional Surveyor:

REFER TO ORIGINAL PLAT

Certificate Number



**COG OPERATING LLC Pre-Drill Geological Prognosis
WOLFCAMP TWO MILE LATERAL W/O PILOT HOLE**

Wildcat, Wolfcamp

WFMP	NO PH
-------------	--------------

Fez Federal Com #711H
Enter API#

Rig:	TBD
-------------	------------

Target Zone: Wolfcamp					
Regular section		FNL	FSL	FEL	Unit
§-T-R (SHL)	9-25S-35E		330	2390	0
§-T-R (BHL)	4-25S-35E	50		2580	2

GL:	3243	actual
KB:	3272	estmtd

PROPOSED WELL					REFERENCE WELL	
COG OPERATING LLC					COG Operating	
Fez Federal Com #711H					White Falcon 16 State #H	
9-25S-35E					16-25S-35E	
Lea Co., NM					Lea Co., NM	
Est. KB:	3272	Est. MD:	22700	AFE type:	TopHat WC No-PH	KB: 3281

Formations	TVD	Subsea	Iso to Tgt	Lith	Hazards/Misc	TVD	Subsea	Iso
Rustler	776	2496		Mixed lithologies		862	2419	341
TOS	1122	2150		Salt		1203	2078	3793
BOS (Fletcher)	4921	-1648		Anhydrite		4996	-1715	330
LMAR (Top Delaware)	5294	-2021		Limestone		5326	-2045	49
BLCN	5350	-2078		Silt, Sand & Carb		5375	-2094	923
CYCN	6262	-2989		Silt, Sand & Carb		6298	-3017	1460
BYCN	7770	-4498		Silt, Sand & Carb		7758	-4477	1237
Bone Sprg (BSGL)	8989	-5717		Limestone		8995	-5714	210
U Avalon Sh	9243	-5971	3199	Silt, Shale & Carb		9205	-5924	537
L Avalon Sh	9688	-6416	2754	Silt, Shale & Carb		9742	-6461	642
FBSG sand	10324	-7051	2119	Fine Sand & Carb		10384	-7103	521
SBSG sand	10844	-7572	1598	Fine Sand & Carb		10905	-7624	474
SBSG sand base	11343	-8071	1099	Limestone		11379	-8098	587
TBSG sand	11926	-8654	516	Fine Sand & Carb		11966	-8685	399
WFMP	12311	-9039	131	Silt, Shale & Carb		12365	-9084	92
☆ WFMP Lith	12379	-9107	63	Silt, Shale & Carb		12457	-9176	251
WFMP B	12637	-9365		Silt, Shale & Carb		12708	-9427	197
WFMP C	12828	-9556		Silt, Shale & Carb		12905	-9624	-

Lateral Targeting						
	X	Y	Dist from FTP	TVD	TVDss	INC
FTP	797628.70	415176.50	0	12442	-9170	91.3
WP1			3500	12362	-9090	89.1
WP2			7000	12417	-9145	89.9
PBHL	797543	425610	10434	12422	-9150	-

DATUM: NAD 27		
NM State Plane East 3001		
Dist from FTP	TVD	INC
WP3		-
WP4		-
WP5		-

Comments

Two mile WFMP A Shale well to be drilled south to north. Same pad as #607H and #708H. GR in lateral for correlation.

Upper WFMP A Shale Target

Wireline Evaluation

CH Logs Only

Coring and Testing

Mudlogging

Log out from intermediate casing to TD with a 2-man unit keeping 1 set of 20' samples & capturing 1' drill time.

Land (obligations and deadlines)

Version/Geologist

v1 Allison Holcomb

DATE: 2/12/2019

SAVED TO: EWP