

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.  
NMNM025528

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No.  
FEDERAL Z 2

9. API Well No.  
30-015-32494-00-S2

10. Field and Pool or Exploratory Area  
UNDESIGNATED

11. County or Parish, State  
EDDY COUNTY, NM

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
COG OPERATING LLC  
*Carlsbad Field Office*  
*Mike Pippin*  
*OCDA Artesia*

3a. Address  
600 W ILLINOIS AVENUE  
MIDLAND, TX 79701

3b. Phone No. (include area code)  
Ph: 505-327-4573

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 33 T17S R27E SWSE 660FSL 1830FEL

**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 checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<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.

THIS IS A REQUEST TO RECOMPLETE TO YESO.

*GC 6-29-18*  
*Accepted for record - NMOCD*

MIRUSU. TOH w/rods, pump, & tbg. Set a 5-1/2" CIBP @ 6830' & top w/25 sx cmt (226'). PT CIBP & 5-1/2" csg to 3500 psi. Set a 5-1/2" CBP @ 4700' & PT to 3500 psi. Perf Tubb @ 4270'-4489' w/27 holes. Treat new perms w/1500 gal 15% HCL acid & frac w/30,000# 100 mesh & 189,210# 40/70 sand in slick water.  
Set 5-1/2" CBP @ 4100' & PT to 3500 psi. Perf Yeso @ 3676'-3951' w/30 holes. Treat new Yeso perms w/1500 gal 15% HCL & frac w/30,000# 100 mesh & 245,280# 40/70 sand in slick water.  
Set 5-1/2" CBP @ 3630' & PT to 3500 psi. Perf Yeso @ 3370'-3593' w/26" holes. Treat new Yeso perms w/1500 gal 15% HCL & frac w/30,000# 100 mesh & 193,620# 40/70 sand in slick water.  
Set 5-1/2" CBP @ 3300' & PT to 3500 psi. Perf Yeso @ 2940'-3241' w/29" holes. Treat new Yeso perms w/1500 gal 15% HCL & frac w/30,000# 100 mesh & 272,580# 40/70 sand in slick water.

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

JUN 29 2018

**RECEIVED**

14. I hereby certify that the foregoing is true and correct.  
Electronic Submission #400378 verified by the BLM Well Information System  
For COG OPERATING LLC, sent to the Carlsbad  
Committed to AFMSS for processing by PRISCILLA PEREZ on 01/15/2018 (18PP0708SE)

Name (Printed/Typed) MIKE PIPPIN Title PETROLEUM ENGINEER

Signature (Electronic Submission) Date 01/11/2018

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

Approved By ZOTA STEVENS Title PETROLEUM ENGINEER Date 06/26/2018

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 Carlsbad

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

(Instructions on page 2)

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

*RWP 7-5-18*  
*7-12-18.*

**Additional data for EC transaction #400378 that would not fit on the form**

**32. Additional remarks, continued**

MIRUSU. CO after frac, drill CBPs @ 3300', 3630', & 4100', & CO to CBP @ 4700'. Land ESP on 2-7/8" 6.5# L-80 tbg @ 2890'. Release completion rig. Complete the well as a single Yeso oil well. See the attached C-102 for the Yeso & the proposed WBD.

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 87410  
Phone: (505) 334-6178 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, NM 87505

Form C-102  
Revised August 1,  
2011

Submit one copy to appropriate  
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015-32494		<sup>2</sup> Pool Code 51120 ✓		<sup>3</sup> Pool Name Red Lake, Glorieta-Yeso ✓	
<sup>4</sup> Property Code 319942		<sup>5</sup> Property Name FEDERAL Z			<sup>6</sup> Well Number 2
<sup>7</sup> OGRID No. 277558		<sup>8</sup> Operator Name LIME ROCK RESOURCES II-A, L.P.			<sup>9</sup> Elevation 3513'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	33	17S	27E		660	SOUTH	1830	EAST	EDDY

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.

33	<b><sup>17</sup> OPERATOR CERTIFICATION</b>			
	<p><i>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 released 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.</i></p> <p style="text-align: right;">1/11/18</p> <p>Signature _____ Date _____</p> <p>MIKE PIPPIN Printed Name</p> <p>E-mail Address _____</p>			
	<b><sup>18</sup> SURVEYOR CERTIFICATION</b>			
<p><i>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.</i></p> <p style="text-align: right;">9/6/02</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor: _____</p> <p>Gary L. Jones 7977</p> <p>Certificate Number _____</p>				
1830'	660'	O		

RWP 7-5-18

	County	EDDY	Well Name:	Federal Z #2	Field:	East Artesia Glorieta-Yeso	Well Sketch:	AFE R17017 LRR II-A, L.P.
	Surface Lat:	32.7852631	BH Lat:	32.7852631	Survey:	S33-T17S-R27E (NE/SE of O)	API #	30-015-32494
	Surface Long:	104.2809219	BH Long:	104.2809219		660' FSL & 1830' FEL	OGRID #	277558

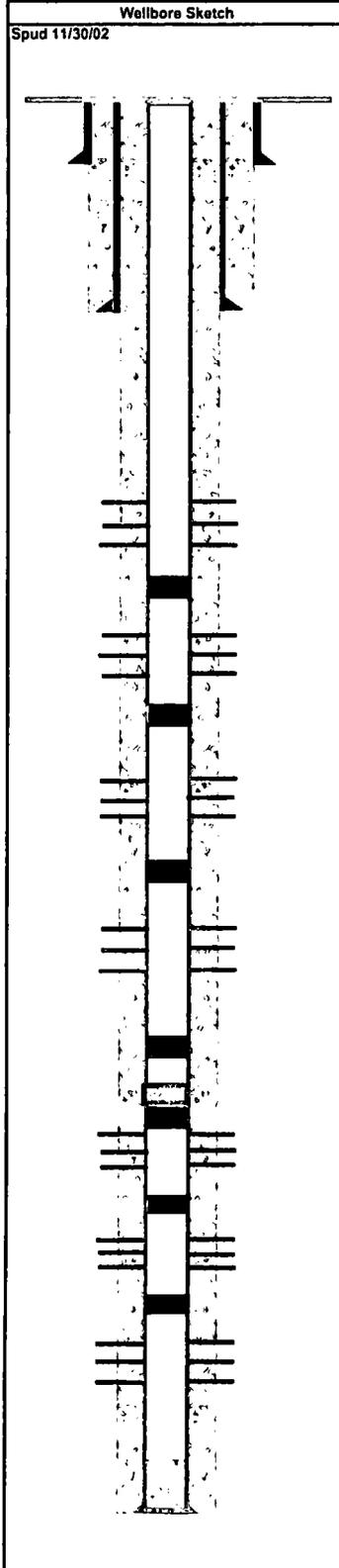
<b>Directional Data:</b>	
KOP	Vertical Well
Max Dev.:	
Dleg sev:	
Dev @ Perfs	
Ret to Vert:	

<b>Tubular Data</b>							
Tubulars	Size	Weight	Grade	Thread	TYE	MD	YGC
Surface	13 3/8"	48#	H40	STC	490'	490'	SURF
Intermediate	8 5/8"	32#	J-55	STC	2,600'	2,600'	SURF
Production Liner	5 1/2"	17#	N-80	LTC	9,773'	9,773'	1080'

<b>Wellhead Data</b>	
Type:	
WP:	
Tree Cap	Flange:
	Thread:
Tbg Hanger:	
8TM Flange:	
BPV Profile:	NA
Elevations:	GL - RKB = 16'
RKB:	3529'
GL:	3513'

<b>Drilling / Completion Fluid</b>	
Drilling Fluid:	10.2 PPG Brine / Salt Gel
Drilling Fluid:	
Completion Fluid:	2% KCL
Completion Fluid:	
Packer Fluid:	NA

<b>CEMENT DATA</b>							
	Links	Yd	Wt	Yds	Wt	XS	
Surface	185			530		10 sx	
Intermediate	775			200		263 sx	
Liner							
Production	575			965		0 SX	



Completion Information					DETAILS	
DEPTHS (MD)	FORMATION TOPS / WELL INFO	PERFORATIONS		# of HOLES		
		from	to			
0						
490'	17 1/2" Hole				13 3/8" 48# H40 Surf Csg. Circ 10 sx Cmt to surf	
667'	Queen					
1,004'	Grayburg					
1,436'	San Andres					
2,600'	12.25" Hole				8-5/8" Intermediate Csg Circ 263 sx Cmt to surf	
2,780'	Glorieta					
2,892'	Yeso					
2 7/8" 6.5# L80 Seamless tbg w Desander, 10 jts MA, and ESP at 2890'. New 1/4" cap string						
Start the ESP at 50 HZ						
	Yeso Stage #4	2,940'	3,241'	29	301'; 1500 g 15% HCL, 7414 bbls water	
	CBP at 3300'				30k # 100 Mesh, 272,580 # 40/70, 80-100 BPM	
	Yeso Stage #3	3,370'	3,593'	26	223'; 1500 g 15% HCL, 5914 bbls water	
	CBP at 3630'				30k # 100 Mesh, 193,620 # 40/70, 80-100 BPM	
	Yeso Stage #2	3,676'	3,951'	30	275'; 1500 g 15% HCL, 7014 bbls water	
	CBP at 4100'				30k # 100 Mesh, 245,280 # 40/70, 80-100 BPM	
4,282'	Tubb					
	Tubb Stage #1	4,270'	4,489'	27	219'; 1500 g 15% HCL, 5714 bbls water	
	CBP at 4700' Do Not Drill				New PBTD, Do Not Drill	
	CIBP at 6830' & 25 sks cement on top					
	Wolfcamp	6,840'	6,935'	33	95', 1300 g 15% HCL; 10,000 g 15% gelled acid	
	Completed 10/15/03					
	CIBP at 7600' & 35' cement					
	Wolfcamp	7,628'	7,657'	58	29', 4000 g 15%	
	Completed 10/15/03					
	CIBP at 9500' & 35' cement					
	Morrow	9,532'	9,557'	72	25'; 260 bbls of 7% KCL water & 3 bbls 10% acetic acid	
	Completed 1/28/03					
9,773'	PROD CSG				5-1/2" Prod Csg. TOC 1080'	
Comments: Originally drilled as a Morrow well by Ricks Exploration, Inc.					Plug back Depth:	7600' MD
Chesapeake became operator in 2004 and completed Wolfcamp. Concho became operator in July 2012 and Lime Rock become operator in Nov 2017.					Total Well Depth:	9,790' MD
					Prepared By:	Date:
					Eric McClusky	10-Jan-18

**BUREAU OF LAND MANAGEMENT**  
**Carlsbad Field Office**  
**620 East Greene Street**  
**Carlsbad, New Mexico 88220**  
**575-234-5972**

**Conditions of Approval**

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within **ninety (90)** days from the approval date of this Notice of Intent to Abandon.

**If you are unable to Recomplete the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when we can expect the well to be Recompleted. Failure to do so will result in enforcement action.**

**The rig used for the Recomplete procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.**

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any Recomplete operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-393-3612.

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat

Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

7. Subsequent Recomplete Reporting: Within 30 days after Recomplete work is completed, file one original and three copies of the Subsequent Report of Recomplete, Form 3160-5 to BLM. The report should give in detail the manner in which the recompletion was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well.

**Show date well was recompleted.**

8. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.