

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**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.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMLC028784C
2. Name of Operator COG OPERATING LLC		6. If Indian, Allottee or Tribe Name
3a. Address ONE CONCHO CENTER 600 W ILLINOIS AVENUE MIDLAND, TX 79701		7. If Unit or CA/Agreement, Name and/or No. NMNM88525X
3b. Phone No. (include area code) Ph: 432-685-4332		8. Well Name and No. BURCH KEELY UNIT 636
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 24 T17S R29E SWSE 10FSL 2299FEL		9. API Well No. 30-015-38558-00-S1
		10. Field and Pool, or Exploratory BURCH KEELY-GLORIETA-UPPER YE
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK 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"/> Fracture Treat	<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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall 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 to recomplete as follows:

We are going to set a CIBP at 4200' (50' above the Paddock perfs) w/ 40' of CMT on top of the plug to have our PBTD @ 4160'. We plan to have our bottom perfs from 3700' - 3900'. Ideally, we like to have as much rathole below our bottom perfs as possible to give our bottomhole assembly room and prevent tubing from getting stuck with sand. In addition to having desired rathole space this gives COG the option to re-enter the Paddock at later time.

Rod Pull Procedure
? MIRU WSU, NU BOP
? Unseat Pump and POOH with rods
? PU scrapper and RIH to 4262?

NM OIL CONSERVATION
ARTESIA DISTRICT**SEE ATTACHED FOR**
CONDITIONS OF APPROVAL
RECEIVED

Accepted for record

JW NMOC 6/23/15

14. I hereby certify that the foregoing is true and correct. Electronic Submission #305198 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad Committed to AFMSS for processing by JENNIFER SANCHEZ on 06/17/2015 (15JAS0401SE)	
Name (Printed/Typed) KANICIA CASTILLO	Title PREPARER
Signature (Electronic Submission)	Date 06/16/2015
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By	Title
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.	

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

Additional data for EC transaction #305198 that would not fit on the form

32. Additional remarks, continued

- ? RU Wireline
- ? Set CIBP @ 4200?
- ? Wireline truck dump 40? Class C cement of top of CIBP
- ? Tag cement plug to verify depth of 4160?
- ? Pull up 4? to circulate hole clean with fresh water, and displace w/ 2% KCL and 1% packer corrosion inhibitor.
- ? Test Casing to 1000 psi and report back to engineering if the pressure holds.
- ? Secure wellbore
- ? RDMO WSU

Tentative Recompletion Procedure

- ? NU frac valve, and test casing to 4200 psi
- ? Rig up wireline.
- ? RIH w/ perforating guns and perforate San Andres Zone from 3600? to 3900? w/ 3 spf, 60? phasing, 54 holes.
- ? Acidize w/ 1500 gals of 15% HCl.
- ? Frac zone w/ 181,250 # of sand.
- ? Record ISIP and FG, Get 5, 10, 15 min SIP
- ? Rig up Wireline
- ? RIH w/ WL and set Composite Plug @ 3550?
- ? Perforate San Andres Zone from 3260' - 3520' w/ 3 spf, 60? phasing, 54 holes.
- ? Acidize w/ 1500 gals of 15% HCl.
- ? Frac zone w/ 181,250 # of sand.
- ? Record ISIP and FG, Get 5, 10, 15 min SIP
- ? Rig up Wireline
- ? RIH w/ WL and set Composite Plug @ 3200?
- ? Perforate San Andres Zone from 2810' - 3010' w/ 3 spf, 60? phasing, 54 holes.
- ? Acidize w/ 1500 gals of 15% HCl.
- ? Frac zone w/ 181,250 # of sand.
- ? Record ISIP and FG, Get 5, 10, 15 min SIP
- ? RIH with Production tbg and drill Composite plugs @ 3200? and 3550?
- ? Clean out fill to new PBTD @ 3960?
- ? POOH bailer and tbg
- ? RIH with production tubing and locate intake at 3900?.
- ? Set TAC @ 3150?
- ? RIH w/ rods and pump.
- ? RDMO rig.

COG Operating LLC

Lease & Well

30-015-38558

Spud: 6/18/11

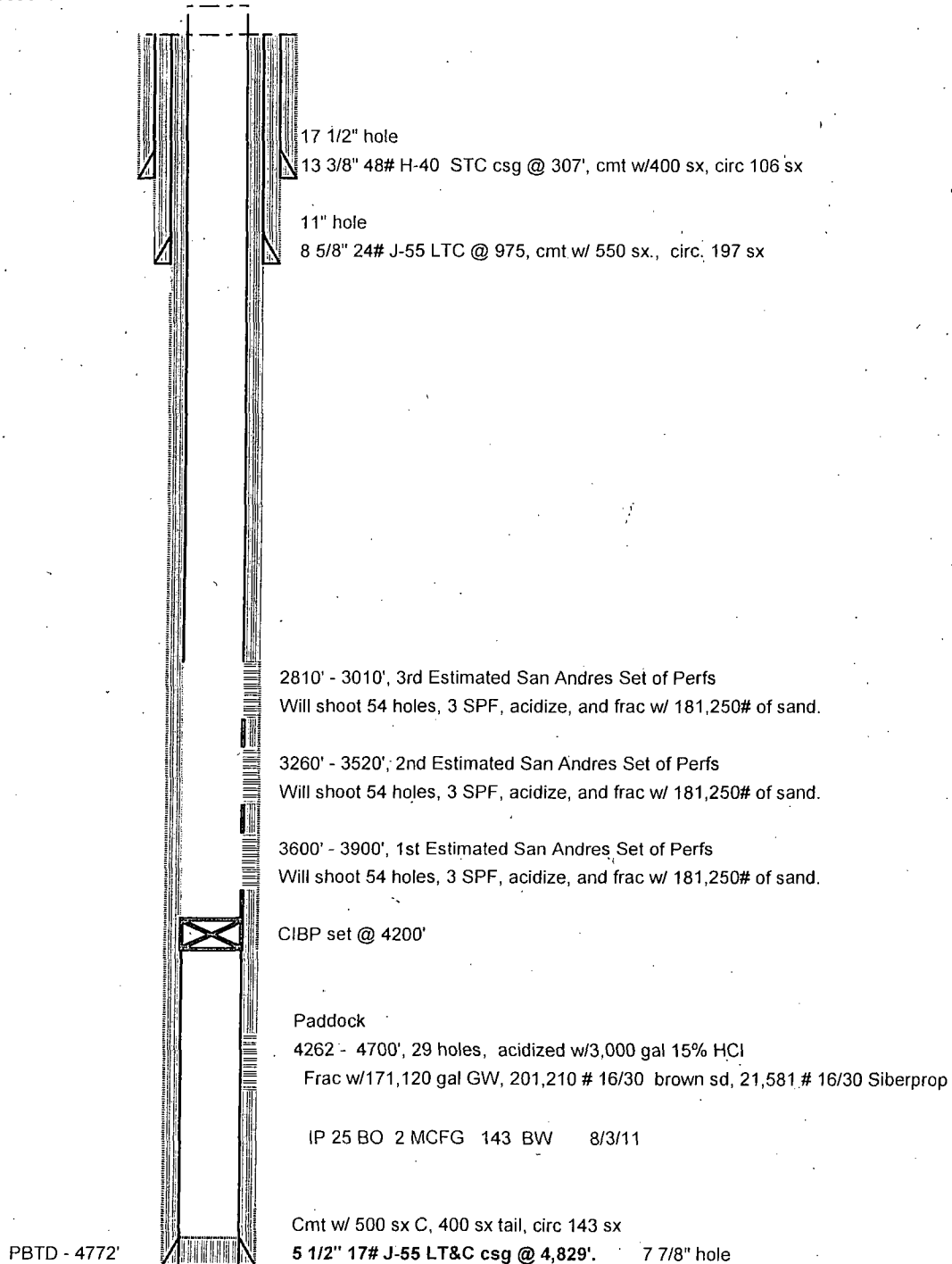
Completion: 7/21/11

Elevation - 3598' GR

Burch Keely Unit #636

Sec 24 T17S R29E 10 FSL & 2299 FWL Lot O

Eddy Co., NM



COG Operating LLC

Lease & Well

30-015-38558

Spud: 6/18/11

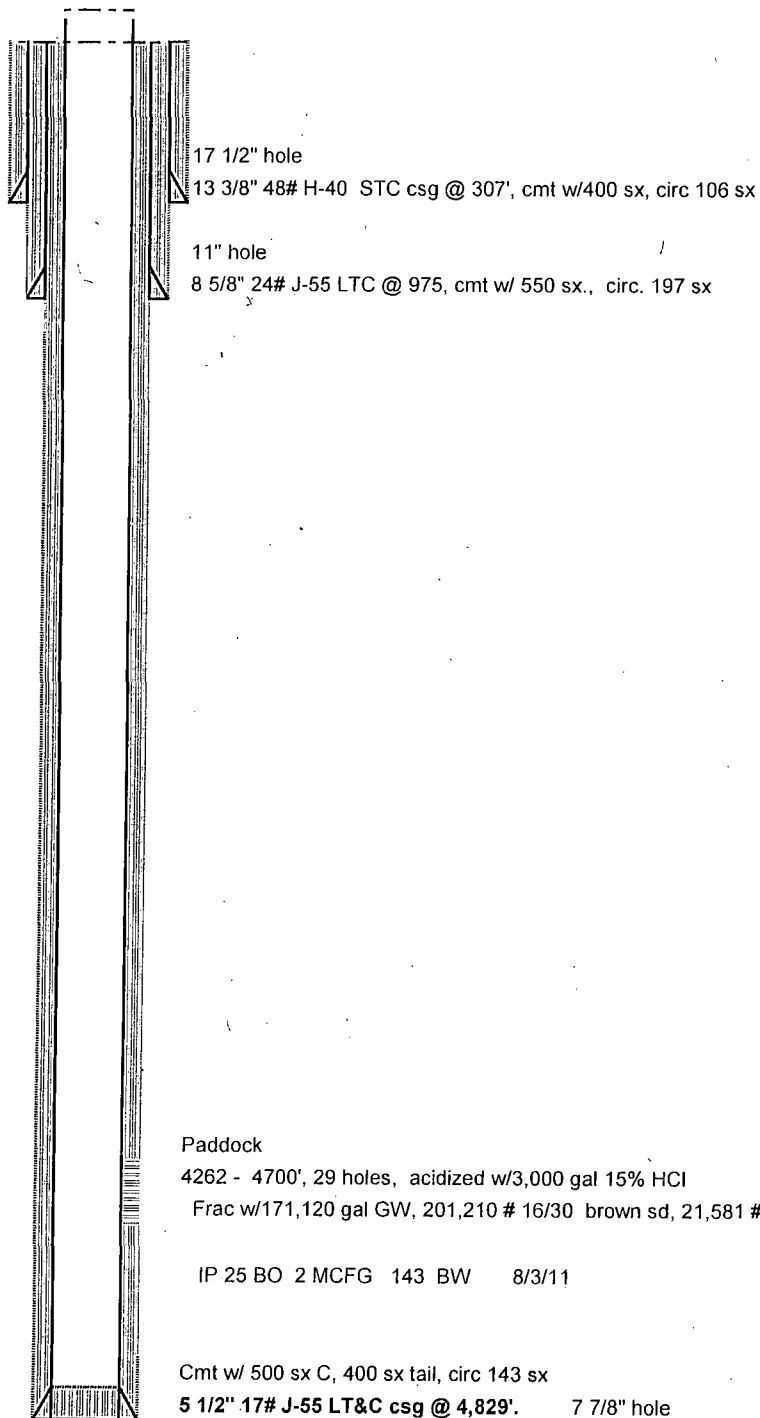
Completion: 7/21/11

Elevation - 3598' GR

Burch Keely Unit #636

Sec 24 T17S R29E 10 FSL & 2299 FWL Lot O

Eddy Co., NM



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

RECEIVED
 JUN 01 2012
 NM OCD ARTESIA

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-38558	² Pool Code 97918	³ Pool Name Burch Keely-Glorieta-Upper Yeso
⁴ Property Code 308086	⁵ Property Name Burch Keely Unit	⁶ Well Number 636
⁷ OGRID No. 229137	⁸ Operator Name COG Operating LLC	⁹ Elevation 3598

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
0	24	17S	29E		10	South	2299	East	Eddy

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
0	24	17S	29E		20	South	2633	East	Eddy

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-10067-E
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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>¹⁷ OPERATOR CERTIFICATION</p> <p>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</p> <p>Signature: <u>Kanicia Castillo</u> Date: <u>4/23/12</u></p> <p>Printed Name: <u>Kanicia Castillo</u></p> <p>E-mail Address: <u>kcastillo@concho.com</u></p>
	<p>¹⁸ 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>Date of Survey: _____</p> <p>Signature and Seal of Professional Surveyor: _____</p> <p>Certificate Number: _____</p>

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410

DISTRICT IV
11885 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
11885 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-38558	Pool Code 28509	Pool Name GRAYBURG JACKSON; SR-Q-G-SA
Property Code 308086	Property Name BURCH KEELY UNIT	Well Number 636
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3598'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	24	17-S	29-E		10	SOUTH	2299	EAST	EDDY

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
0	24	17-S	29-E		20	SOUTH	2633	EAST	EDDY

Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No. NSL-6307
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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>GEODETIC COORDINATES NAD 27 NME</p> <p>SURFACE LOCATION Y=659507.2 N X=594231.1 E</p> <p>LAT.=32.812698° N LONG.=104.026621° W</p> <p>BOTTOM HOLE LOCATION Y=659506.2 N X=593900.3 E</p> <p>SECTION 24</p> <p>SECTION 25</p> <p>GRID AZ.=289°49'34" HORZ. DIST.=330.9'</p> <p>S.L. SEE DETAIL</p> <p>20'</p> <p>10'</p> <p>2299'</p> <p>2633'</p> <p>3595.5'</p> <p>3602.3'</p> <p>3595.6'</p> <p>3602.3'</p> <p>600'</p> <p>600'</p> <p>DETAIL</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>Chasity Jackson</i> 8/5/11 Signature Date</p> <p>Chasity Jackson Printed Name</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 3, 2010</p> <p>Date Surveyed Signature & Seal of Professional Surveyor NEW MEXICO Ronald J. Edson 02/21/2011 1115.0394</p> <p>Certificate No. GARY O. EDSON 12661 RONALD J. EDSON 3239</p>
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**Burch Keely Unit 636
30-015-38558
COG Operating, LLC.
June 17, 2015
Conditions of Approval**

Notify BLM at 575-361-2822 a minimum of 24 hours prior to commencing work.

Work to be completed by September 17, 2015.

- 1. Operator shall set a CIBP at 4,200' and place 40' Class C cement on top. Tag required.**

Note: At a later date, the Glorieta formation must be abandoned properly.

- 2. Must conduct a casing integrity test before perforating and fracturing. Submit results to BLM. The CIT is to be performed on the production casing to max treating pressure. Notify BLM if test fails.**
- 3. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.**
- 4. Surface disturbance beyond the originally approved pad must have prior approval.**
- 5. Closed loop system required.**
- 6. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.**
- 7. Operator to have H2S monitoring equipment on location.**
- 8. A minimum of a 2000 (2M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (2M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.**

9. **Subsequent sundry required detailing work done and completion report for the new formations. Operator to include well bore schematic of current well condition when work is complete.**

10. **See attached for general requirements.**

JAM 061715

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

Permanent Abandonment of Production Zone 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 this approval.

If you are unable to plug back the well by the 90th day provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged back. Failure to do so will result in enforcement action.

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plug back operations. For wells in Eddy County, call 575-361-2822. For wells in 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.**

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.

6. **Subsequent Plug back Reporting:** Within 30 days after plug back work is completed, file one original and three copies of the Subsequent Report, Form 3160-5 to BLM. The report should give in detail the manner in which the plug back work 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 work was completed.**

7. 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.