

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Hobbs

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. NMNM016497
2. Name of Operator COG OPERATING LLC		6. If Indian, Allottee or Tribe Name
Contact: MAYTE X REYES E-Mail: mreyes1@concho.com		7. If Unit or CA/Agreement, Name and/or No. 891006783D
3a. Address ONE CONCHO CENTER 600 W ILLINOIS AVENUE MIDLAND, TX 79701-4287	3b. Phone No. (include area code) Ph: 575-748-6945	8. Well Name and No. LUSK DEEP UNIT A 26H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 19 T19S R32E SESW 330FSL 1780FWL		9. API Well No. 30-025-42750-00-X1
		10. Field and Pool, or Exploratory LUSK
		11. County or Parish, and State LEA COUNTY, NM

SEP 29 2015

RECEIVED

## 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"/> Subsequent Report	<input type="checkbox"/> Alter Casing <input type="checkbox"/> Fracture Treat
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair <input type="checkbox"/> New Construction
	<input type="checkbox"/> Change Plans <input checked="" type="checkbox"/> Plug and Abandon
	<input type="checkbox"/> Convert to Injection <input type="checkbox"/> Plug Back

E-PERMITTING <SWD INJECTION  
CONVERSION RBDMS  
RETURN TO TA  
CSNG ENVIRO CHG LOC  
INT TO P&A NR P&A R

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 recompleteness 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 recompleteness 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 approval for the following changes to the original approved APD.

COG Operating LLC proposes to P&A the subject well with the following cement plugs:

Plug 1:  
400? f/ 600? to 1,000? WOC + Tag  
400 sx Class C Neat  
14.8 ppg 1.33cf/sk  
Plug 2:  
150? f/ 0? to 150?  
100 sx Class C Neat

FILE ATTACHED FOR  
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct. Electronic Submission #317539 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Hobbs Committed to AFMSS for processing by CHRISTOPHER WALLS on 09/23/2015 (15CRW0088SE)	
Name (Printed/Typed) MAYTE X REYES	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 09/23/2015
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
APPROVED	
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.	Date
	SEP 23 2015
	/s/ Chris Walls
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 Federal, State, or local agency or official any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.	
BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE	

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

MSB/ocd 9/30/2015

OCT 07 2015

jm

**Additional data for EC transaction #317539 that would not fit on the form**

**32. Additional remarks, continued**

14.8 ppg 1.33cf/sk

Base of salt plug is already installed. The operator (Concho) tagged at 2,139?, with a planned tag at 2,150?. Due to being so close to planned calculations with about a 3% error that brought cement 11? higher than 2,150?, the operator successfully placed a good cement plug below the base of salt that came up above the casing fish.

See attached.

Lea County, NM  
Section 19 T19S R32E

Lusk Deep Unit A 26H  
2nd Bone Spring Sand

SHL BHL  
330' FSL 330' FNL  
1780' FWL 1980' FWL

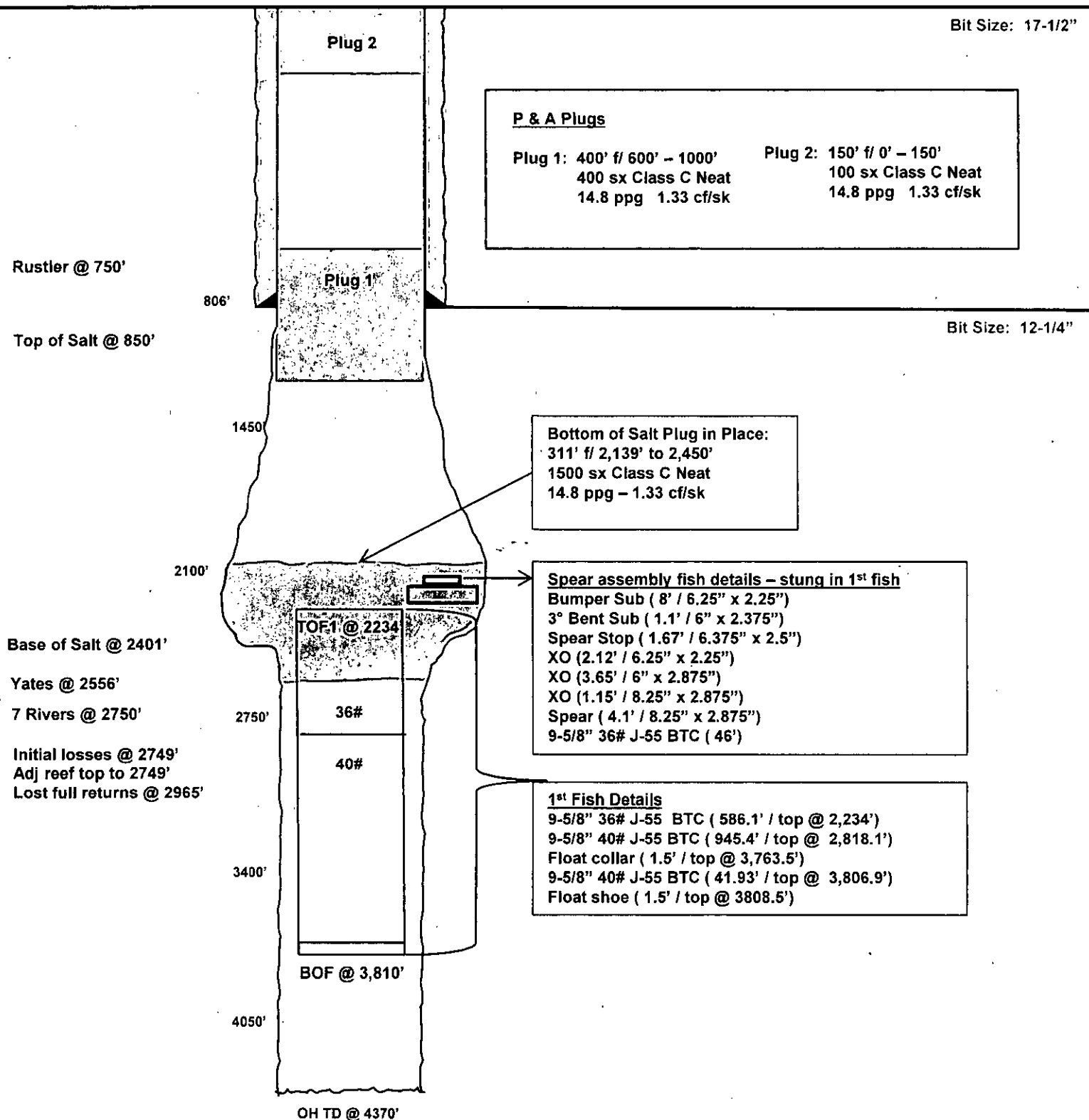
API: 30-025-42750

Plug Back Schematic

Rig: Patriot 6  
Cmt: Hlbrtn  
Mud: Nova  
Dir Drlg: Nexus  
Wellhead: AFS

32.639528°N / 103.807913°W

KB: 3561'  
GL: 3543'



# HALLIBURTON

Permian Basin, Hobbs

Lab Results- PTA Plug

## Job Information

Request/Slurry	2246086/1	Rig Name	Patriot 2	Date	JUN/01/2015
		Job Type	Plug to Abandon	Bulk Plant	Hobbs, NM
Customer	COG	Location	Lea	Well	Lusk Deep Unit A 26H

## Cement Information - Plug Design

Conc	UOM	Cement/Additive	Sample Type	Sample Date	Lot No.	Cement Properties
100	% BWOC	Cemex Premium Plus C				Slurry Density 14.8 lbm/gal
6.38	gal/sack	Fresh Water				Slurry Yield 1.3293 ft3/sack
						Water Requirement 6.3793 gal/sack
						Total Mix Fluid 6.38 gal/sack
						Water Source Fresh Water
						Water Chloride N/A

## Pilot Test Results Request ID 2246086/1

### Thickening Time - ON-OFF-ON, Historical Data

JUN/01/2015

Test Temp (°F)	Pressure (psi)	Reached in (min)	70 Bc (hh:mm)
82	1500	4	3:55

## Pilot Test Results Request ID 2101060/2

### UCA Comp. Strength, Historical Data

End Temp (°F)	Pressure (psi)	50 psi (hh:mm)	500 psi (hh:mm)	8 hr CS (psi)	12 hr CS (psi)	24 hr CS (psi)	48 hr CS (psi)
86	3000	4:04	8:41	416	922	2087	2851

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

**Permanent Abandonment of Federal Wells**  
**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 plug 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 plugged. Failure to do so will result in enforcement action.**

**The rig used for the plugging 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 plugging 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 – operator will place full tubing weight on plug when tagged.

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.

**Before pumping 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. **The Neat cement shall be mixed according to the API water requirement. If operator requests a variance from the API water requirement, the plug(s) will be tagged and possibly pressure tested.**

6. Dry Hole Marker: All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). **The BLM is to be notified a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10<sup>th</sup> day, the BLM is to be contacted with justification to receive an extension for completing the cut off.**

The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement, unless otherwise noted in COA (requirements will be attached). The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds).

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging 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 well was plugged.**

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.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation procedure.