

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**Carlsbad Field Office**  
**OCB Hobbs**

FORM APPROVED  
OMB NO. 1004-0137  
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.  
NM053434

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
LEA UNIT 11

9. API Well No.  
30-025-20338-00-S1

10. Field and Pool or Exploratory Area  
LEA

11. County or Parish, State  
LEA COUNTY, NM

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

**HOBBS OCB**  
**AUG 21 2019**  
**RECEIVED**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
BROTHERS PRODUCTION CO INC  
Contact: D. PATRICK DARDEN, PE  
E-Mail: pdarden@legacyp.com

3a. Address  
P O BOX 7515  
MIDLAND, TX 79708

3b. Phone No. (include area code)  
Ph: 432-689-5200 Ext: 5237

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 13 T20S R34E SESW 660FSL 1980FWL

**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.

Legacy Reserves will be recompleting the Lea Unit #11 uphole by opening pay in the Delaware formation. Legacy's planned procedure to recomplete the well is as follows:

- Rig up pulling unit early to mid July 2019.
- Set CIBP @ ~9,480' w/50' cmt on top.
- Perforate, acidize & tst Delaware zones from ~7,350'-8,100'.
- Return well to production in Delaware zone.

Current & proposed wellbore diagrams attached.

**SUBJECT TO LIKE APPROVAL BY BLM**

14. I hereby certify that the foregoing is true and correct.  
**Electronic Submission #471026 verified by the BLM Well Information System**  
**For BROTHERS PRODUCTION CO INC, sent to the Hobbs**  
**Committed to AFMSS for processing by PRISCILLA PEREZ on 06/27/2019 (19PP2328SE)**

Name (Printed/Typed) D. PATRICK DARDEN, PE Title SENIOR ENGINEERING ADVISOR

Signature (Electronic Submission) Date 06/27/2019

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

Approved By /s/ Jonathon Shepard Title Petroleum Engineer Date JUL 03 2019  
**Carlsbad Field Office**

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.

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

**FOR RECORD ONLY**

*K7 NM OCB 8-26-19*

CURRENT WB CONDITION



Lea Unit #11

LOCATION: See Below for SHL & BHL

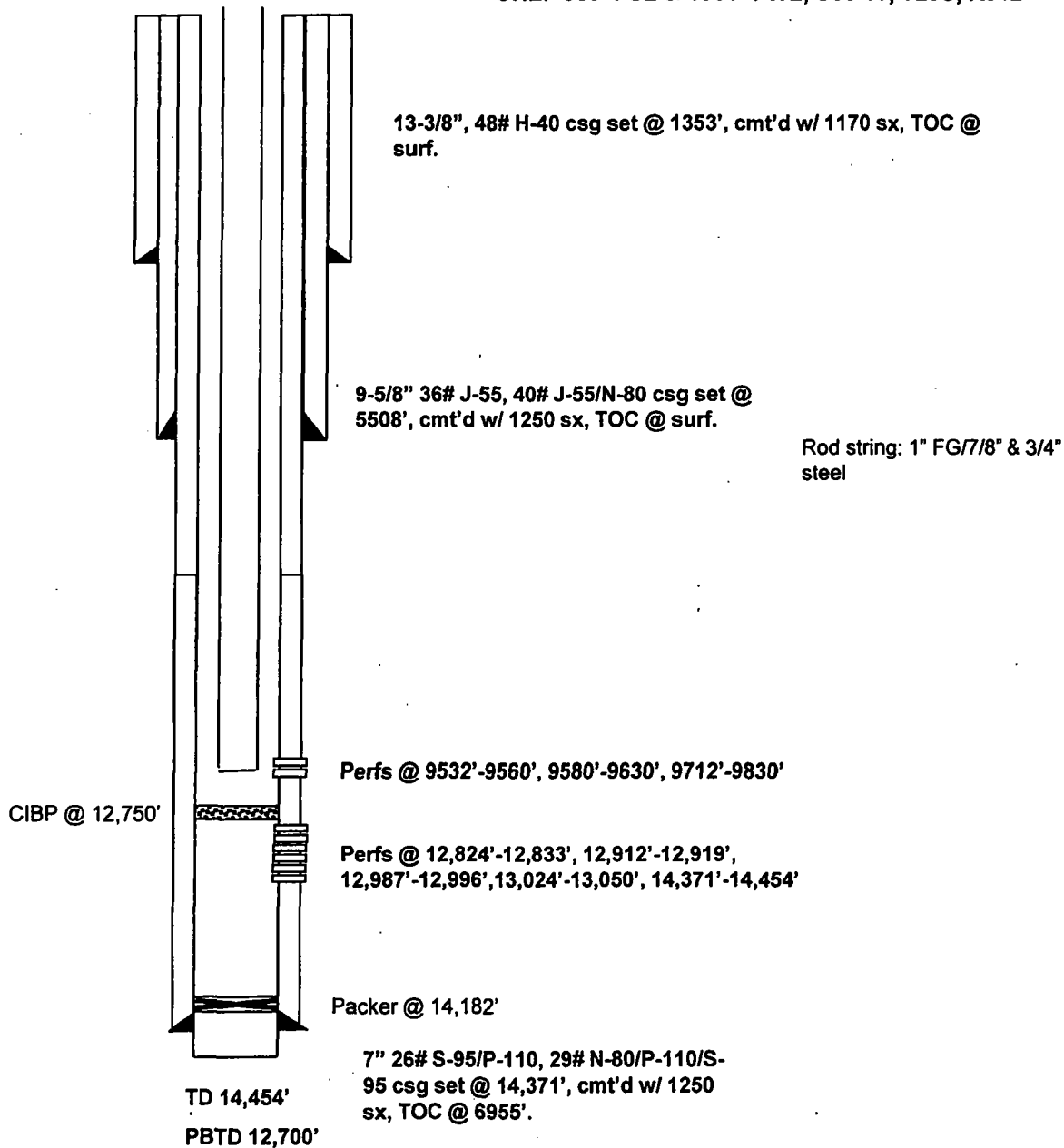
FIELD: Bone Spring  
COUNTY: Lea  
STATE: New Mexico

GL: 3656'  
KB: 3679'  
SPUD DATE: 04/25/94

LATEST UPDATE: 10/15/2013  
BY: MAL  
API No: 30-025-20338

Location:

SHL: 660' FSL & 1980' FWL, Sec 13, T20S, R34E



PROPOSED WB CONDITION



Lea Unit #11

LOCATION: See Below for SHL & BHL

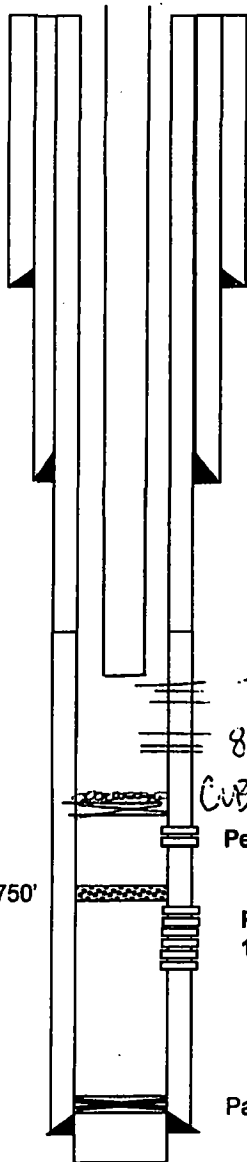
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13-3/8", 48# H-40 csg set @ 1353', cmt'd w/ 1170 sx, TOC @ surf.

9-5/8" 36# J-55, 40# J-55/N-80 csg set @ 5508', cmt'd w/ 1250 sx, TOC @ surf.

Rod string: 1" FG/7/8" & 3/4" steel

7350' PROPOSED OVERALL  
8100' PERF INTERVAL

CUBP @ 9440' w/ 50' CMT on Top (e-9433')

Perfs @ 9532'-9560', 9580'-9630', 9712'-9830'

CIBP @ 12,750'

Perfs @ 12,824'-12,833', 12,912'-12,919',  
12,987'-12,996', 13,024'-13,050', 14,371'-14,454'

Packer @ 14,182'

7" 26# S-95/P-110, 29# N-80/P-110/S-95 csg set @ 14,371', cmt'd w/ 1250 sx, TOC @ 6955'.

TD 14,454'

PBTD 12,700'

# BUREAU OF LAND MANAGEMENT

Carlsbad Field Office  
620 East Greene Street  
Carlsbad, New Mexico 88220  
575-234-5972

## Conditions of Approval for Permanent Abandonment of a Production Zone

1. **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
2. **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 9,100 feet, a 3M system for a well not deeper than 13,600 feet, or a 5M system for a well not deeper than 22,700 feet (all depths are for measured well depth).
3. **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.
4. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the approved 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 (or 35 feet with a bailer). Before pumping cement on top of CIBP, a 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.
5. **Subsequent Plug back Reporting:** Within 30 days after plug back work is completed, file a 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. If plugging back to a new zone submit a Completion Report (Form 3160-4) with the Subsequent Report.
6. **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.
7. **If well location is within the Timing Limitation Stipulation Area for Lesser Prairie-Chicken:** From March 1<sup>st</sup> through June 15<sup>th</sup> annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted.