

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.

File No.
NMNM053434

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator BROTHERS PRODUCTION CO INC		7. If Unit or CA/Agreement, Name and/or No.
Contact: D. PATRICK DARDEN, PE E-Mail: pdarden@legacyp.com		8. Well Name and No. LEA UNIT 11
3a. Address P O BOX 7515 MIDLAND, TX 79708	3b. Phone No. (include area code) Ph: 432-689-5200 Ext. 6208	9. API Well No. 30-025-20338-00-S1
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 13 T20S R34E SESW 660FSL 1980FWL		10. Field and Pool or Exploratory Area LEA
		11. County or Parish, State LEA COUNTY, NM

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 type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input checked="" 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 recomple 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 recomple 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 request permission to temporarily abandon (TA) the Lea Unit #11 for up to two (2) years as follows:

CIBP was set & tested to 500# on 08/15/19 @ 7,365'.

Notify BLM of operations to run pressure test & chart on casing w/CIBP set @ 7,365' (set on 08/15/19).

Secure well for future utilization.

See attached Wellbore Diagram.

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #482597 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 09/10/2019 (19PP3098SE)	
Name (Printed/Typed) D. PATRICK DARDEN, PE	Title SENIOR ENGINEERING ADVISOR
Signature (Electronic Submission)	Date 09/10/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>/s/ Jonathon Shepard</u>	Title <u>PE</u>	Date <u>SEP 19 2019</u>
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 <u>Cfo</u>		

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**

FOR RECORD ONLY

X7 NMOC 10-11-19

Wellbore Schematic

Printed: 9/10/2019

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Lea Unit # 11	BOLO ID: 300033.11.11	API # 3002520338
Lea Unit # 11, 9/10/2019	1660 FNL & 1980 FWL	GL Elev: 3,676.00 KOP:
	Section 13, Township 20S, Range 34E	EOC:
	County, State: Lea, NM	Fill Depth: 9,505
	Aux ID: 23000	PBTD: 12,700.00
	'KB' correction: 23; All Depths Corr To:	TD: 14,464.00
		BOP:

Hole Size

Diameter	Top At	Btm At	Date Drilled
17.5000	0.00	1,354.00	6/5/1963
12.2500	1,354.00	5,508.00	6/17/1963
8.3750	5,508.00	14,371.00	9/4/1963
6.1250	14,371.00	14,464.00	9/8/1963
Open Hole			

Surface Casing

Date Ran: 6/5/1963

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Set Below GL					27.00		
Casing	32	13.3750	48.00	H40	1,325.68	50.00	1,375.68
Guide Shoe	1	13.3750			1.40	1,375.68	1,377.08

Intermediate Casing

Date Ran: 6/17/1963

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Set Below GL					24.00		
Casing	81	9.6250	36.00	J55	3,328.94	47.00	3,375.94
Casing	1	9.6250	40.00	J55	41.79	3,375.94	3,417.73
Float Collar	1	9.6250			3.30	3,417.73	3,421.03
Casing	30	9.6250	40.00	J55	1,261.01	3,421.03	4,682.04
Casing	20	9.6250	40.00	N80	845.87	4,682.04	5,527.91
Guide Shoe	2	9.6250			2.79	5,527.91	5,530.70

Baker Flex Flow collar and guide shoe

Production Casing

Date Ran: 9/4/1963

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Set Below GL					21.70		
Casing	67	7.0000	26.00	P110	2,745.63	44.70	2,790.33
Casing	38	7.0000	29.00	N80	1,543.08	2,790.33	4,333.41
Casing	1	7.0000	29.00	P110	31.67	4,333.41	4,365.08
Casing	122	7.0000	26.00	S-95	5,659.03	4,365.08	10,024.11
Casing	94	7.0000	29.00	S-95	4,366.70	10,024.11	14,390.81
Float Collar	1	7.0000			2.21	14,390.81	14,393.02
Guide Shoe	1	7.0000			0.98	14,393.02	14,394.00

Cement

Top At	Btm At	I D	O D	TOC Per	# - Type	# Sx	Class	Wt.
0.00	1,354.00	13.375	17.500	Circ	10 - All	1170	Regular	
0.00	5,508.00	9.625	12.250	Circ	20 - All	1250	Lite	
6,955.00	14,371.00	7.000	8.375	TS	30 - All	1250	Regular	
14,081.00	14,155.00	0.000	7.000	Calc	40 - All	35	Inferno	
12,700.00	12,750.00	0.000	7.000	Calc	50			

Zone and Perfs

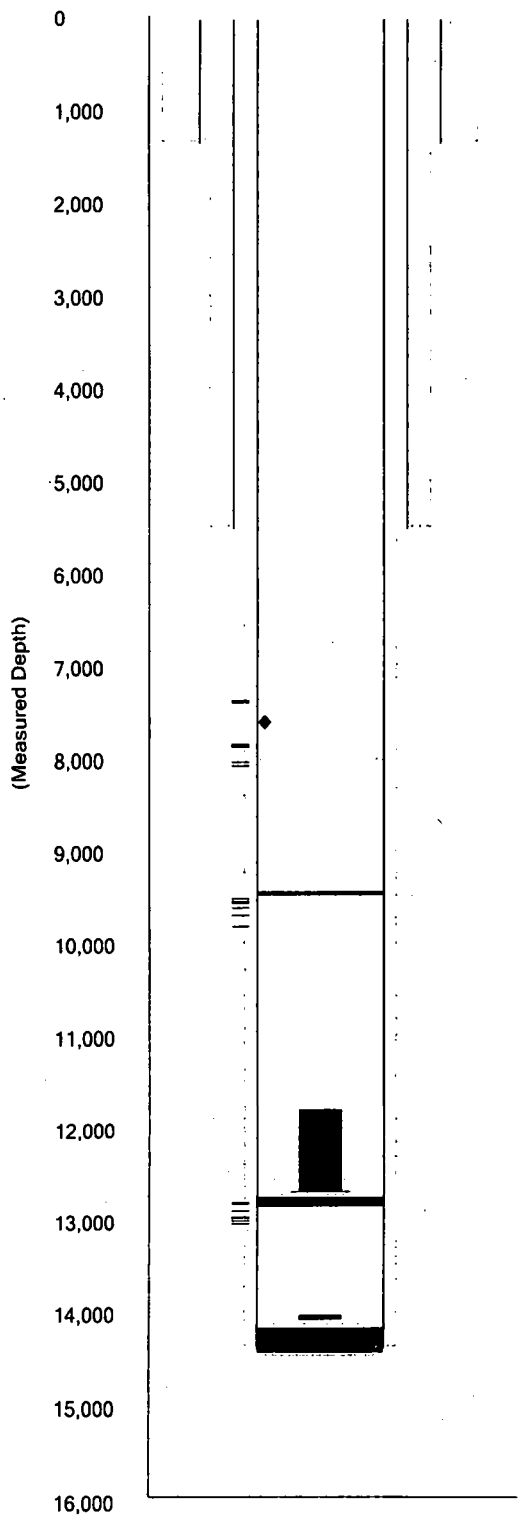
Bone Spring

Comments / Completion Summary

Spud: 06/03/1963, Comp: 11/14/1963 - Devonian and Penn
05/29/1965 - Devonian TA
05/16/1994 - Recomplete to Bone Spring

08/11/1994:
Fish

TOF @11797', collar looking up (collar failed during pull on final fish attempt), 24 joints 2-3/8" TBG, TBG anchor, 14 joints 2-3/8" tbg, Seating nipple, perf sub, mud joint and purge valve. Note in



= Fluid Level with Gas
♦ = Net Fluid Level

Wellbore Schematic

Printed: 9/10/2019

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Lea Unit # 11 BOLO ID: 300033.11.11 API # 3002520338

file suggest collar pieces or split collar on top of TAC. A collar was not recovered on the first partial recovery of the fish. Note: wireline tagged at 12025' in 2013.

Perforations

Top	Bottom	Formation	Status	Opened	Closed	# / Ft	Ttl #
7,395.00	7,417.00	DELAWARE	TA	8/12/2019	8/16/2019	2	46
under CIBP							
7,862.00	7,877.00	DELAWARE	TA	8/5/2019	8/16/2019	2	30
under CIBP							
7,884.00	7,897.00	DELAWARE	TA	8/5/2019	8/16/2019	2	30
under CIBP							
8,059.00	8,090.00	DELAWARE	TA	7/31/2019	8/16/2019	2	64
under CIBP							
9,532.00	9,560.00	Bone Spring	TA	5/1/1994	7/30/2019	4	112
9,580.00	9,630.00	Bone Spring	TA	8/1/1994	7/30/2019	4	168
9,712.00	9,830.00	Bone Spring	TA	4/29/1994	7/30/2019	4	184
12,824.00	12,833.00	Morrow	PA	5/27/1965	4/27/1994	2	
12,912.00	12,919.00	Morrow	PA	5/27/1965	4/27/1994	2	
12,987.00	12,996.00	Morrow	PA	10/15/1963	5/20/1965	2	
13,024.00	13,050.00	MORROW LOWER	PA	10/5/1983	4/27/1994	2	
14,371.00	14,454.00	Devonian	PA	9/8/1963	5/24/1965		

Wellbore Plugs and Junk

Top	Bottom	Type	Diameter	Solid	Date
7,365.00	7,367.00	CIBP	7.000	Yes	8/16/2019
DB-10 CIBP W.L. Set/ No Cement on Top					
7,832.00	7,834.00	CIBP	7.000	Yes	8/12/2019
DB-10 CIBP W.L. Set/ No Cement on Top					
8,015.00	8,017.00	CIBP	7.000	Yes	8/5/2019
DB-10 CIBP W.L. Set/ no cement on top					
9,440.00	9,480.00	CIBP	7.000	Yes	7/30/2019
DB-10 CIBP W.L. set with 40' Class H cement/ tagged to confirm TOC					
11,797.00	12,693.00	Tubing	2.375	Yes	8/11/1994
see note on Completion Summary					
12,693.00	12,700.00	Junk	3.300	Yes	8/5/1994
Perf clean tool, 3.3" OD 7' long					
12,750.00	12,850.00	CIBP	7.000	Yes	4/27/1994
14,030.00	14,080.00	Junk	2.375	Yes	7/25/1985
part of a 10' 2-3/8" 8rd TBG sub, 4' 2-3/8" handling sub, 1.6' Vantage Mechanical extended firing head, 26' Perforating gun (5' fired gun, 18' blank, 3' fired gun), and a 2.5' 4" bull plug.					
14,182.00	14,200.00	Junk	1.900	Yes	5/22/1965
Inside tailpipe, gauge ring with rope socket and cutter bar. Lost @14168'					
14,182.00	14,437.00	Packer	7.000	Yes	5/24/1965
Otis WA pkr with J-Latch seal assy, OTIS X type nipples @ 14307' and 14336", Circ Valve @ 14425', 2-3/8" CS Hydril TBG @ 14396', and 2" IJ TBG @ 14437'.					
14,182.00	14,185.00	Packer	7.000	Yes	8/24/1965

Tubing

Date Ran: 8/19/2019

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Tubing	1	2.8750			10.00	23.00	33.00
Bull Plug	1	2.8750			1.00	33.00	34.00

BUREAU OF LAND MANAGEMENT

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

Conditions of Approval for Temporary Abandonment of Wells

Definition: A temporarily abandoned well is a completion that is not capable of production in paying quantities but which may have future value. Pursuant to 43 CFR 3162.3-4 (c), no well may be temporarily abandoned for more than 30 days without the prior approval of the authorized officer.

Note: TA status "will be effective for a period up to 1 year from the date of NOI approval and can be renewed annually thereafter" per IM NM-2016-017.

1. A bridge plug (CIBP) must be installed 50 to 100 feet above any open perforations or open hole. The CIBP must be capped with either a minimum of 25 sacks of cement if placed with tubing or 35 feet of cement if placed with a bailer. The top of the cement must be verified by tagging.
2. The wellbore must be filled with corrosion inhibited fluid and pressure tested to 500 psi. The casing shall be capable of holding this pressure for at least 30 minutes. If the well does not pass the casing integrity test, then the operator shall, within 30 days, submit a procedure to either repair the casing or to plug and abandon the well.
3. Contact the appropriate BLM office at least 24 hours prior to the scheduled Casing Integrity Test. For wells in Eddy County, 575-361-2822; Lea County 575-393-3612.
4. All downhole production/injection equipment (tubing, rods, etc.) shall be removed from the casing if it is not isolated by a packer.
5. A bradenhead test must be conducted. If the test indicates a problem, a remedial plan and time frame for remediation shall be submitted within ninety (90) days of the test.
6. Submit a subsequent Sundry Notice (Form 3160-5) with the following information:
 - a. A well bore diagram with all perforations, CIBP's, and tops of cement on CIBP's.
 - b. A description of the temporary abandonment procedure.
 - c. A clear copy or the original of the pressure test chart.