

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Hobbs

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.***HOBBS OCD**Lease Serial No.  
NM12612 ✓

6. If Indian, Allottee or Tribe Name

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

8910115840 NM 70926X

8. Well Name and No.

COOPER JAL UNIT 503 ✓

9. API Well No.

30-025-38330-00-C1 ✓

10. Field and Pool or Exploratory Area

JALMAT-TAN-YATES-7RVRS  
LANGLIE MATTIX-7RVRS-QN-GB

11. County or Parish, State

LEA COUNTY, NM

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

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

LEGACY RESERVES OPERATING LP-Mail: jsaenz@legacyp.com

Contact: JOHN SAENZ

3a. Address

303 W WALL SUITE 1600  
MIDLAND, TX 79702

3b. Phone No. (include area code)

Ph: 432-689-5200

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 18 T24S R37E NWSW 1332FSL 1207FWL

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

## TYPE OF SUBMISSION

## TYPE OF ACTION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Hydraulic Fracturing☐ New Construction☒ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☐ Other

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 recompleat 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 recompleat 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.

**Proposed P&A Procedure:**

All plugs to be minimum 25 sacks of cement.

1. MIRU. Pick up work string.

2. RIH tag cement at 3225'.

3. Circulate minimum 9.5 ppg P&amp;A mud to surface and spot 100' of cement on top of cement at 3225'.

4. Pull up hole. Spot balanced cement plug from 3000' to 2900'.

5. Pull up hole. Spot balanced cement plug from 1200' to 1100'.

6. Pull up hole. Spot balanced cement plug from 480' to 380'.

7. TOOH. Perforate at 100'. Attempt to inject.

8. Circulate cement from 100' to surface.

35 SX min. WOC  
Tag 287525 SX min. Tag  
462-362. WOC Tag.

60'

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #438041 verified by the BLM Well Information System  
For LEGACY RESERVES OPERATING LP, sent to the Hobbs  
Committed to AFMSS for processing by DEBORAH MCKINNEY on 10/03/2018 (19DLM0011SE)

Name(Printed/Typed) JOHN SAENZ

Title OPERATIONS ENGINEER

Signature

(Electronic Submission)

Date 10/02/2018

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

Approved By

Title

SPET

Date

11-26-18

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

C/O

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 \*\*

KA NM OCD 6-3-19

**FOR RECORD ONLY**

**Additional data for EC transaction #438041 that would not fit on the form**

**32. Additional remarks, continued**

9. POOH, top off casing, remove WH, set P&A marker, clean and reclaim location.

Current & proposed wellbore diagrams attached.

## WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC		Cooper Jal Unit		WELL NO. 503							
<p><b>Surface Cas</b></p> <p>Hole Size: 12 1/4 in</p> <p>Csg. Size: 8 5/8 in</p> <p>Set @: 412 ft</p> <p>Sxs Cmt: 250</p> <p>Circ: Yes</p> <p>TOC @: surf</p> <p>TOC by: circ</p>		<p>LEASE NAME: Active</p> <p>STATUS: Active</p> <p>LOCATION: 1332 FSL &amp; 1207 FWL, Sec 18, Unit L, T-24-S, R-37-E, Lee County, New Mexico</p> <p>SPUD DATE: 12/12/06 TD 3729 KB 3x3x3 DF 3x3x3</p> <p>INT. COMP. DATE: PBTD 3725 GL 3x3x3 KB 12.5</p>		<p>API# 30-025-38330</p>							
		<p><b>ELECTRIC LOGS:</b></p> <p>Spectral PE-Density, CNL- from 3739' - 200' (12-19-06 Weatherford)</p> <p>Microspherically Focused - Dual Laterolog- from 3737' - 400' (12-19-06 Weatherford)</p> <p>Cement Top Log from 3634' - 100' (12-21-06 Gray Wireline)</p>		<p><b>CORES, DST'S or MVD LOGS:</b></p>							
		<p><b>HYDROCARBON BEARING ZONE DEPTH TOPS:</b></p> <p>Tarsall @ 2,812' Yates @ 2,970' UPP 7-Rivers @ 3,200' LWR 7-Rivers @ 3,310' Queen @ 3,570'</p>									
		<p><b>CASING PROFILE</b></p> <p>SURF. 8 5/8" - 24#, Grade 55, LT&amp;C set @ 412'. Cmt'd w/ 250 sxs Class C w/ 2% CaCl - circ'd w/ 94 sxs cmt to surface.</p> <p>PROD. 5 1/2" - 15.5#, Grade 55, LT&amp;C set @ 3729' Cmt'd w/ 350 sxs Class H w/ 5% Salt + 300 sxs Class H w/ 5% Salt.</p> <p>LINER. None</p>									
		<p><b>CURRENT PERFORMANCE DATA</b></p> <p>CSD. PERFS:</p> <p>02-May-07 Perf'd Queen // 3652'-3655', 48'-50', 38'-40', 26'-28', 16'-18', 08'-12', 3586'-3588', 3569'-3571'</p> <p>02-May-07 Perf'd L 7-Rivers // 3549'-3558', 3518'-3521', 3473'-3478', 3442'-3464' &amp; 3412'-3422'</p> <p>02-May-07 Perf'd (L. M.) L 7-Rivers // 3378'-3383', 68'-72', &amp; 3310'-3313', 80 ft, 240 holes, 3 JSPF 120 degree phasing.</p>									
<p><b>Production Cas.</b></p> <p>Hole Size: 7 7/8 in</p> <p>Csg. Size: 5 1/2 in</p> <p>Set @: 3729 ft</p> <p>Sxs Cmt: 650</p> <p>Circ: no</p> <p>TOC @: 100'</p> <p>TOC by: CBL</p>		<p><b>TURNING DETAIL</b></p> <p><b>ROD DETAIL</b></p>		<p><b>WELL HISTORY SUMMARY</b></p> <p>02-May-07 Perf'd Queen // 3652'-3655', 48'-50', 38'-40', 26'-28', 16'-18', 08'-12', 3586'-3588', 3569'-71'. Perf'd L 7-Rivers // 3549'-3558', 3518'-21', 3473'-78', 3442'-64' &amp; 3412'-22'. Perf'd L. M. Lower 7-Rivers // 3378'-83', 3368'-72', &amp; 3310'-13', 80 feet, 240 holes, 3 JSPF 120 degree phasing. Foam CO2 Acid Frac Queen &amp; L 7-Rivers w/ 190 bbls 15% NEFE acid plus 88 Tons CO2. AIR=15.6 bpm. Pmax=5673#. Pavg= 3794#. Diverted with 12,000# rock salt. ISIP= 735#. CION. Next day SITP= 460#. Flowed on 16/64th choke for 9 hrs: 13 bbls @ 5% oil cut. CION. Flowed for 3 additional days, same oil cut. RIH production string, pump and rods. PWOP.</p> <p>28-Jun-08 POOH with parted 50th 3/4" rod (box break) due to severe wear. POOH with rods, pump and tubing. Changed out 20' - 78" and 70' - 3/4" rod boxes. RIH with tubing, pump and rods. PWOP.</p> <p>15-Nov-11 POOH with rods, pump and tubing. Hydrotest tubing to 7000#. Laid down all 3/4" rods. RIH with plunger &amp; rods. PWOP.</p>							
					<p><b>FORMATION TOPS</b></p> <table border="1"> <tr><td>Rustler</td><td>1100'</td></tr> <tr><td>Tarsall</td><td>2817'</td></tr> <tr><td>Yates</td><td>2970'</td></tr> <tr><td>Seven Rivers</td><td>3149'</td></tr> <tr><td>Queen</td><td>3602'</td></tr> </table>		Rustler	1100'	Tarsall	2817'	Yates
Rustler	1100'										
Tarsall	2817'										
Yates	2970'										
Seven Rivers	3149'										
Queen	3602'										
<p><b>PREPARED BY:</b></p>		<p><b>UPDATED:</b></p>									

Plan

7/salt 1045

8/salt 2760

## FORMATION TOPS

Rustler	1100'
Tarsall	2817'
Yates	2970'
Seven Rivers	3149'
Queen	3602'

1045

2760

3800

3559

## WELLBORE SCHEMATIC AND HISTORY

## CURRENT COMPLETION SCHEMATIC

## LEASE NAME

Cooper Jal Unit

## WELL NO.

503

## STATUS:

Active

Oil

## API#

30-025-38330

## LOCATION:

1332 FSL &amp; 1207 FWL, Sec 18, Unit L, T - 24-S, R - 37-E, Lee County, New Mexico

## SPUD DATE:

12/12/06 TD

3729

KB

3xxt

DF

3xxt

## INT. COMP. DATE:

PBTD

3725

GL

3xxt

KB 12.5

## ELECTRIC LOGS:

Spectral PE-Density, CNL - from 3739' - 200' (12-19-06 Weatherford)

Microspherically Focused - Dual Laterolog - from 3737' - 400' (12-19-06 Weatherford)

Cement Top Log from 3834' - 100' (12-21-06 Gray Wireline)

## CORES DATA &amp; MUD LOGS:

## HYDROCARBON BEARING ZONE DEPTH TOPS:

Tansil @ 2,812'

Yates @ 2,970'

UPP 7-Rivers @ 3,200'

LWR 7-Rivers @ 3,310'

Queen @ 3,570'

## CASINO PROFILE

SURF. 8 5/8" - 24#, Grade 55, LT&amp;C set @ 412'. Cmt'd w/ 250 sxs Class C w/ 2% CaCl - circ'd w/ 94 sxs cmt to surface.

PROD. 5 1/2" - 15.5#, Grade 55, LT&amp;C set @ 3729' Cmt'd w/ 350 sxs Class H w/ 5% Salt + 300 sxs Class H w/ 5% Salt -

LINER. None

CBL TOC @ 100'.

## CURRENT PERFORMANCE DATA

## CSG. PERFS:

02-May-07 Perf'd Queen / 3652'-3655', 48'-50', 38'-40', 26'-28', 16'-18', 08'-12', 3586'-3588', 3569'-3571'

02-May-07 Perf'd L 7-Rivers / 3549'-3558', 3518'-3521', 3473'-3478', 3442'-3464' &amp; 3412'-3422'.

02-May-07 Perf'd (L. M.) L 7-Rivers / 3378'-3383', 68'-72', &amp; 3310'-3313', 80 ft, 240 holes, 3 JSPF 120 degree phasing.

## OPEN HOLE:

## TUBING DETAIL

11/17/11

## ROD DETAIL

11/17/11

Length (ft)	Detail	Length (ft)	Detail
0	KB	20	1 26' x 1 1/4" polish rod w/ 7/8" Pin Spray Metal
4	1 2 7/8" 6.5#, J-55 Super Max tbg.	0	1 1 1/4" x 1 1/2" x 14' lnr
3071	101 2 7/8" 6.5#, J-55 Super Max tbg.	2	1 2', 8'- 7/8" pony rods
3	1 2 7/8" x 5 1/2" TAC	925	37 7/8" KD-80 rods
458	15 2 7/8" 6.5#, J-55 Super Max tbg.	2000	80 3/4" C-70 rods
4	1 2 7/8" 6.5#, 8 rd Lift Sub	600	24 1 1/4" sinker bars
24	1 2 1/2" Working Barrel	4	1 2 1/4"x4' fluted plunger
4	1 1 - 2 7/8" Perf Sub e/ Bull Plug	3551	
31	1 2 7/8" 8 rd MABP		
3599	btm		

## WELL HISTORY SUMMARY

02-May-07 Perf'd Queen / 3652'-3655', 48'-50', 38'-40', 26'-28', 16'-18', 08'-12', 3586'-3588', 3569'-71'. Perf'd L 7-Rivers / 3549'-3558', 3518'-21', 3473'-78', 3442'-64' & 3412'-22'. Perf'd L. M. Lower 7-Rivers / 3378'-83', 3368'-72', & 3310'-13', 80 feet, 240 holes, 3 JSPF 120 degree phasing. Foam CO2 Acid Frac Queen & L 7-Rivers w/ 190 bbls 15% NEFE acid plus 88 Tons CO2. AIR=15.6 bpm. Pmax=5673#. Pavg= 3794#. Diverted with 12,000# rock salt. ISIP= 735#. CION. Next day STP= 460#. Flowed on 18/64th choke for 9 hrs: 13 bbls @ 5% oil cut. CION. Flowed for 3 additional days, same oil cut. RIH production string, pump and rods. PWOP.

26-Jun-08 POOH with parted 50th 3/4" rod (box break) due to severe wear. POOH with rods, pump and tubing. Changed out 20 - 7/8" and 70 - 3/4" rod boxes. RIH with tubing, pump and rods. PWOP.

15-Nov-11 POOH with rods, pump and tubing. Hydrotest tubing to 7000#. Laid down all 3/4" rods. RIH with plunger & rods. PWOP.

Jalmat

Yates @

7-Rivers @

L. M.

3310'-13'

3368'-72'

3378'-83'

3412'-22'

3442'-64'

3473'-78'

3518'-21'

3549'-58'

Queen @

3569'-71'

3586'-88'

3608'-12'

3616'-18'

3626'-28'

3638'-40'

3648'-50'

3652'-55'

## Surface Csg

Hole Size: 12 1/4 in

Csg. Size: 8 5/8 in

Set @: 412 ft

Sxs Cmt: 250

Circ: Yes

TOC @: surf

TOC by: circ

## Production Csg.

Hole Size: 7 7/8 in

Csg. Size: 5 1/2 in

Set @: 3729 ft

Sxs Cmt: 650

Circ: no

TOC @: 100'

TOC by: CBL

PBTD: 3725 ft

TD: 3729 ft

PREPARED BY:

UPDATED:

**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.

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.

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 objectives.