

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTOCD Hobbs  
**HOBBS OCD**FORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2014**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.****DEC 16 2013**Lease Serial No.  
LC-055546

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

## 1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other INJECTOR

## 2. Name of Operator

LEGACY RESERVES OPERATING LP

## 3a. Address

P.O. BOX, 10848  
MIDLAND, TX 79702

## 3b. Phone No. (include area code)

(432) 689-5200

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

1830' FSL &amp; 660' FEL, SEC. 5, T-25S, R-37E, UNIT LETTER I

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

LANGLIE JAL UNIT- NM70970A

## 8. Well Name and No.

LANGLIE JAL UNIT #60

## 9. API Well No.

30-025-24879

## 10. Field and Pool or Exploratory Area

LANGLIE MATTIX; 7RIVERS-QUEEN-GRAYBURG

## 11. County or Parish, State

LEA CO., 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"/> 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 type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" 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 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.)

ATTACHED IS THE RECOMMENDED PLUGGING PROCEDURE ALONG WITH THE CURRENT AND PROPOSED WELLBORE DIAGRAMS.

INSTALL CLOSED-LOOP SYSTEM WITH STEEL TANKS. HAUL CONTENTS FROM CLOSED-LOOP SYSTEM TO APPROVED NMOC DISPOSAL LOCATION ACCORDING TO RULE 19.15.17.

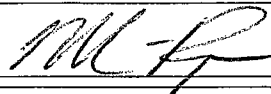
RECLAMATION PROCEDURE  
ATTACHEDSEE ATTACHED FOR  
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

MELANIE REYES

Title REGULATORY TECH

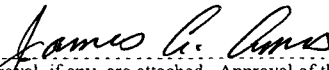
Signature



Date 10/29/2013

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

Approved by



Title

SEPS

Date

12-10-13

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

NO

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)

**DEC 16 2013**

**PROCEDURE TO PLUG AND ABANDON**  
**Langlie Jal Unit #60**  
**Langlie Mattix (7-Rivers, & Queen) Field**  
**Lea County, New Mexico**  
**10/7/13**

**GENERAL WELL DATA**

- KB 3,230'
- 13-3/8" surface csg @ 30', cmt'd w/75 sx. TOC @ surf (circ'd)
- 8-5/8" intermdt. csg @ 814', cmt'd w/600 sx. TOC @ surf (circ'd)
- 4-1/2" prod. csg @ 3848', cmt'd w/1100 sx. TOC @ surf (circ'd)
- TD @ 3,850'
- PBD @ 3,783'
- 7-Rivers perfs: 3,425'-3,427'
- Queen perfs: 3,497'-3,724'

**OBJECTIVE:** *Plug and Abandon Well.*

**PROCEDURE**

1. Hold Safety Meeting. High concentrations of H2S may be present. MIRU plugging equipment.
2. Kill well if necessary and ND WH, remove any tubing joints, and NU BOP.
3. PU work string and RIH to set CIBP @ 3400'.
4. Circulate well with mud.
5. Spot ~~25~~ sxs of cement on top of CIBP. *Adequate to bring cmt to 2877' WOC Tag*
6. PU to 2510 and spot 25 sxs of cement @ 2510'-2150'.
7. POOH with work string.
8. MIRU WL. Pick up perf gun and perf 4-1/2" csg @ 1175'.
9. POOH wireline and RIH with tubing and packer.
10. Pump & squeeze 75 sxs of cement into perfs at 1175' and flush to ~~775'~~. *764'*
11. POOH with work string and WOC.
12. Tag top of plug @ ~~775'~~. *764'*
13. Pick up perf gun and perf 4-1/2" csg @ 590' and POOH w/wire line.
14. Pump cement down casing and circulate cement to surface.

15. RDMO plugging equipment.

16. ND BOP.

17. Cut off well head and weld on marker.

PREPARED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

Field: **Langlie Mattix (7-Rivers & Queen)**

Location:	
Footage:	1830 FNL & 660 FEL
Section:	5, T - 25S, R - 37E
Block:	
Survey:	
County:	Lea
Lat:	32.1570565
Long:	103.1785151
Elevations:	
GL:	3,220'
KB:	3,230'
KB Calc:	10'
ck w/og?	n/a

Date	History
13-Dec-74	Perf'd Q & 7-R 1/3425'-27', 3497'-3506', 3518', 3534'-40', 3558', 3562'-64', 3567'-77', 3592', 3602', 3606'-10', 3616', 3629'-32', 1 JHPF, 40', 47 holes. Acidized perfs (L. Queen 3,562' to 3,632') w/ 2,500 gals 15% HCl. Divert 40 BS. Acidized perfs (3425'-3540') w, 1,000 gals 15% HCl acid and 40 BS. Frac'd w/ 40,000 gals 2% KCl & 40,000# 20/40 sand in 3 stages using rock salt to divert. IP: 142.8 BOPD & 88.6 BWPD.
12-May-77	Spotted with 100 gals 15% HCl acid. Acidized with 1,000 gals 15% HCl acid.
4-Dec-85	Drilled out to 3,783'; PBTD. Perf'd Q & 7-R 1/3425'-27', 3582', 3593', 3616', 3673' 76', 3688'-94', 3720'-3724', 1 JHPF, 18', 25 holes. Acidized with 3,500 gals 15% HCl acid. Well converted to water injection well. IP: 1025 bWPE @ 340 psig.
4-Dec-92	Cleaned out with Coiled tubing using 1 1/4" Hydroblast Tool from 3,577' to 3,770'.
20-Dec-92	Cleaned out with Coiled tubing using 1 3/4" Hydroblast Tool from 3,330' to 3,780'. Recovered iron sulfide.
7-Aug-02	Squeezed casing leak (497'-1027') with 6.5 bbls polymer. Well passed pressure test.
17-Sep-06	Squeezed casing leak (497'-1027') with 6 bbls polymer. Well passed pressure test.
23-Apr-12	POOH with injection string. Hydrotest tubing - found hole on 54th joint. RIH with RBP & PKR. Set RBP at 3,358' and test to 1500 psig - leaked 120# in 5 minute. Moved RBP to 3,335' - no test. POOH with RBP & PKR. Re-dress Tool and re-ran. Set RBP @ 1,780' - no test. Set RBP at 1080' - no test. Well circulated to surface. Laid down work string. Failed MIT. Shut in well.

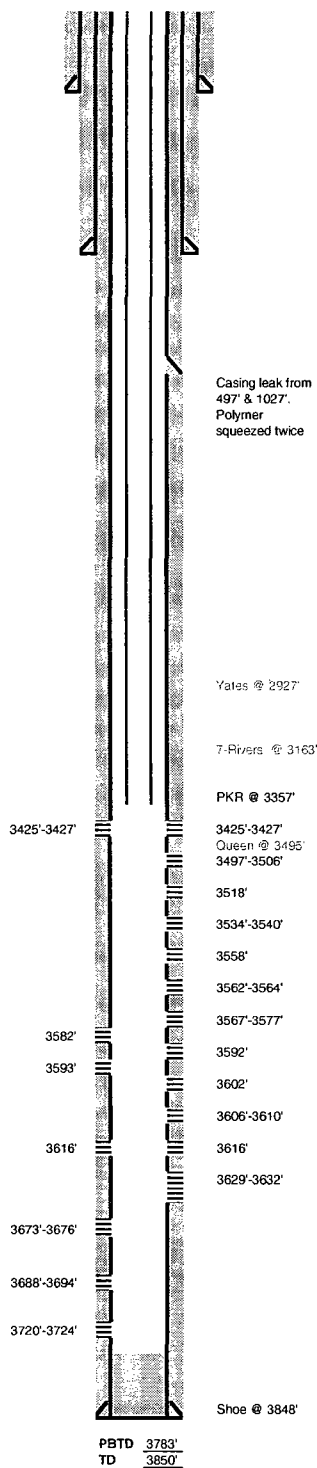
Tubing Detail (top to bottom)			
Joints	Description	Footage	Depth
104	2-3/8" IPC tubing	3,238	3,238
1	Uni-Pkr	1	3,239

Rod Detail (top to bottom)			
Rods	Description	Footage	Depth

Pumping Unit: Injector  
Updated: 23-May-12

Langlie Jal Unit # 60

## Wellbore Diagram



Reservoir:	Langlie Jal
Well ID Info:	60
API No:	30-025-24879
Spud Date:	11/24/1974

Hole Size:	20"
Surf. Csg:	13 3/8" - 61#, K-55
Set @	30'
Cement w/	75 sxs
Circ:	Yes
TOC:	Surface

Hole Size:	12-1/2"
Intermdt. Csg:	8 5/8" - 24#, J-55
Set @	814'
Cement w/	600 sxs Class C
Circ:	Yes
TOC:	Surface

Hole Size:	6 1/6"
Prod. Csg:	4-1/2" - 10.5#, J-55
Set @	3848'
Cement w/	1100 sxs Class C
Circ:	Yes
TOC:	Surface

Field: **Langlie Mattix (7-Rivers & Queen)**

	<b>Location:</b>
Footage:	1830 FNL & 660 FEL
Section:	5, T - 25S, R - 37E
Block:	
Survey:	
County:	Lea
Lat:	32.1570565
Long:	103.1785151
	<b>Elevations:</b>
GL:	3,220'
KB:	3,230'
KB Calc:	10'
ck w/long?	n/a

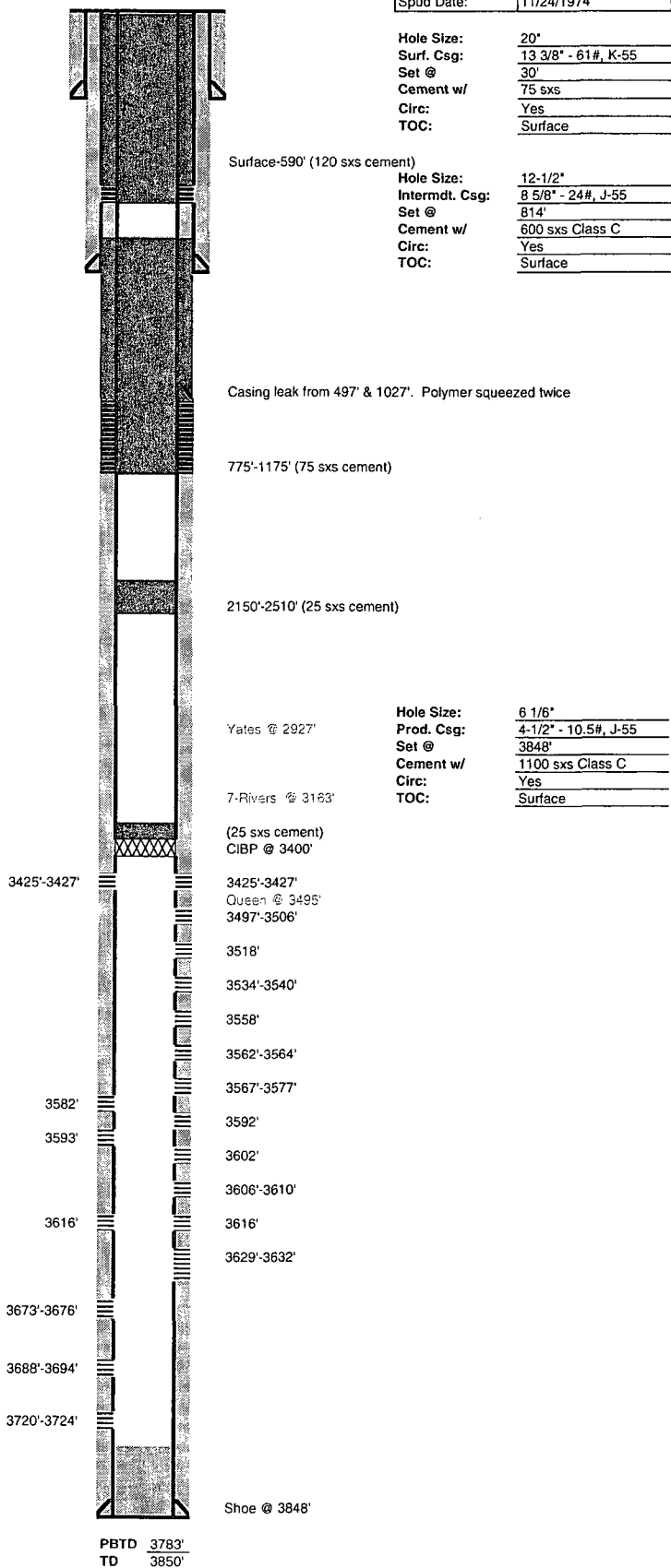
[illegible][illegible]

	Rod Detail (top to bottom)		
Rods	Description	Footage	Depth

Pumping Unit: Injector  
Updated: 23-May-12

**Langlie Jal Unit # 60**  
**Proposed**

### Wellbore Diagram



Reservoir:	Langlie Jal
Well ID Info:	60
API No:	30-025-24879
Soud Date:	11/24/1974

Hole Size:	20"
Surf. Csg:	13 3/8" - 61#, K-55
Set @	30'
Cement w/	75 sxs
Circ:	Yes
TOC:	Surface

Male Size:	12-1/2"
Intermdt. Csg:	8 5/8" - 24#, J-55
Set @	814'
Cement w/	600 sxs Class C
Circ:	Yes
TOC:	Surface

Hole Size:	6 1/8"
Prod. Csg:	4-1/2" - 10.5#, J-55
Set @	3848'
Cement w/	1100 sxs Class C
Circ:	Yes
TOC:	Surface