

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs
HOBBS OCD

DEC 09 2013

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.

5. Lease Serial No. 10055546

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

7. If Unit of CA/Agreement, Name and/or No.
LANGLIE JAL UNIT- NM70970A

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
LANGLIE JAL UNIT #48

2. Name of Operator
LEGACY RESERVES OPERATING LP

9. API Well No.
30-025-11457

3a. Address
PO BOX 10848
MIDLAND, TX 79702

3b. Phone No. (include area code)
(432) 689-5200

10. Field and Pool or Exploratory Area
LANGLIE MATTIX; 7RIVERS-QUEEN-GRAYBURG

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980' FNL & 660' FWL, UNIT LETTER E, SEC. 5, T25S, R37E

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 checked="" 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 checked="" type="checkbox"/> Other <u>RETURN TO PRODUCTION</u>
	<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 recomplate 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.)

OBJECTIVE: Drill out CIBP @ 3161', add perfs in Seven Rivers, Acidize entire interval, and install rod pump equipment.

---See attached procedure---

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
LAURA PINA Title REGULATORY TECH

Signature *Laura Pina* Date 10/09/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by *James A. Jones* Title *SEPS* Date *12-5-13*

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 *CFD*

MW/OCD 12/9/2013

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.

DEC 10 2013

PROCEDURE TO REACTIVATE
Langlie Jal Unit #48
Langlie Mattix (7-Rivers, & Queen) Field
Lea County, New Mexico
- 9/9/13

GENERAL WELL DATA

- KB 3,242'
- 9-5/8" csg @ 1205', cmt'd w/500 sx. TOC @ surf (circ'd)
- 7" csg @ 3,383', cmt'd w/300 sx. TOC @ 1415' (calc'd)
- 4-1/2" csg @ 3541', cmt'd w/400 sx. TOC @ srf (circ'd)
- TD @ 3,707'
- PBTD @ 3,707'
- 7-Rivers perfs: 3,335-3,405'
- Queen perfs: 3,406-3,707'

OBJECTIVE: Drill out CIBP @ 3161', add perfs in Seven Rivers, Acidize entire interval, and install rod pump equipment.

PROCEDURE

1. Hold Safety Meeting. High concentrations of H₂S may be present. MIRU PU.
2. Kill well if necessary and ND WH and NU BOP.
3. PU bit, collars, and 2-3/8" work string and TIH to CIBP at 3161'.
4. Drill out CIBP and continue pushing plug and cleaning out to PBTD of 3707'. Circ well clean and POOH with work string and BHA.
5. MIRU WL. Pick up csg gun and perf 4-1/2' csg as follows with 2 JSPF @ 180 deg phasing.
 - 3172-3178' 6 feet
 - 3188-3218' 30 feet
 - 3260-3270' 10 feet
 - 3275-3285' 10 feet
 - 3320-3335' 15 feetTotal of 71 feet of new perfs
RDMO WL.
6. Pick up treating packer and RIH with packer on work string to 3125'. Set packer and test back side to 300 psi. Bleed off pressure.
7. MIRU service company and acidize down tubing with 10,000 gals of 15% HCL acid and 10,000 lbs of rock salt. Pump acid and rock salt at 5 to 10 BPM with a max surface treating pressure of 4500 psig. Pump acid stages alternating acid and rock salt in brine water.
 - a. Pump 1000 gals acid
 - b. Pump 700#'s rock salt in brine water

- c. Pump 1500 gals acid
 - d. Pump rock salt stage and increase or decrease rock salt based on pressure response of previous diversion stage.
 - e. Pump 2000 gals acid
 - f. Pump rock salt stage. Choose rock salt volume based on pressure response
 - g. Pump 2500 gals acid
 - h. Pump rock salt stage. Choose rock salt volume based on pressure response
 - i. Pump 3000 gals acid
 - j. Displace acid to top perf with 2%KCL water
8. Obtain 5, 10, & 15 minute SIP's and flow back load if well has surface pressure. If not RU swab and swab back load. Report results to Woodlands office.
 9. Release pkr and TOH with WS and pkr. LD pkr.
 10. TIH with notched collar and WS and wash salt to PBTD.
 11. TOH and lay down WS.
 12. PUH 2-7/8" mud anchor jt, 2-3/8" perf sub, 2-3/8" SN, pump barre, 16 jts 2-3/8" tbg, TAC, and remainder of 2-3/8" tbg. Set TAC at +/- 3125'.
 13. ND BOP and NU WH. PU 1-3/4" plunger assembly w/ 15' gas anchor, 300' 1-1/4" k-bars, 2000' 3/4" D sucker rods, and 1350' 7/8" D sucker rods.
 14. Install pumping tee and stuffing box. Check pump action and hang well on.
 15. RDMO PU.
 16. Check alignment on PU and start pmpg unit at 7.5 spm ccw rotation.
 17. As well stabilizes get well test and fluid level.

PREPARED BY: _____ DATE: _____

APPROVED BY: _____ DATE: _____

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

LJU #48

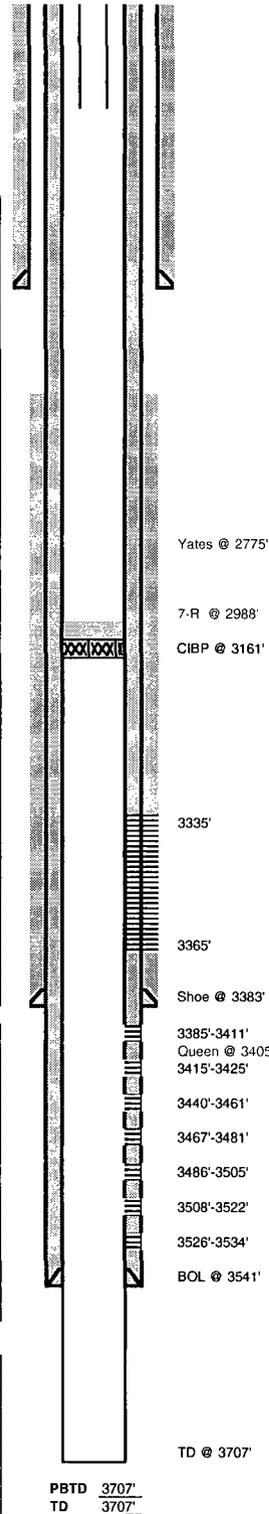
Reservoir: Langlie Jal

Well ID Info:	LJU #48
API No:	30-025-11457
Spud Date:	4/28/1939

Hole Size:	12"
Surf. Csg:	9 5/8" - 25.7#, K-55
Set @:	1205'
Cement w/:	500 sxs
Circ:	Yes
TOC:	Surface

Location:	
Footage:	1980 FNL & 660 FWL
Section:	5, T - 25S, R - 37E
Block:	
Survey:	
County:	Lea
Lat:	
Long:	
Elevations:	
GL:	3,233'
KB:	3,242'
KB Calc:	9'
ck w/log?	n/a

Wellbore Diagram



Hole Size:	8 3/4"
Prod. Csg:	7" - 22#, J-55
Set @:	3383'
Cement w/:	300 sxs
Circ:	
TOC:	1415' calc'd @ 75%

Date	History
1-Dec-39	Natural completed open hole (3413'-3543'). Flowing : Test - 240 bopd 1200 GOR. API Gravity - 40.3 degrees.
23-Apr-43	When well stop flowing. Equiped with Gas Lift System.
29-May-74	Cleaned out to 3,545'. Ran Csg Inspection Log to 3545'. Ran 4 1/2" liner from Surface to 3,541'. Cmt'd w/ 400 sx Class C. Drilled out Cmt to 3541'. Perf'd Queen f/3385'-3411', 3415'-25', 3440'-61', 3467'-81', 3486'-3505', 3508'-22', & 3526'-34', 119 holes. Acidized with 2,000 gals 15% HCl acid.
20-Jan-78	Cleaned out to 3,538'. Acidized with 2,000 gals 15%. Test: 28 bopd 32 bwpd & 15 mcfpd.
29-Apr-87	Drilled 3 7/8" hole from 3,545' to 3,707'. Acidized perms and open hole with 9,500 gals 7.5% HCl & N2. Frac 3385'-3707' with 30# cross linked fluid containing 1000 SCF/bbl. N2. Perf'd 7-Rivers from 3335'-3365' with 3 1/8" gun, 2 JPF, 41 holes. Acidized with 3,300 gals 7 1/2% acid.
15-May-08	RIH with 4 1/2" CIBP on wireline and set at 3,161'. Dumped with 20' of cement. Well T&A'd.

Tubing Detail (top to bottom)			
Joints	Description	Footage	Depth
1	2 3/8"	31.50	31.50

Rod Detail (top to bottom)			
Rods	Description	Footage	Depth

Hole Size:	6 2/7"
Liner:	4 1/2" - 10.5#, J-55
TOL Set @:	Surface
BOL Set @:	3541'
Cement w/:	400 sxs Class C. Circ'd
TOC:	Surface
Circ:	Yes

Pumping Unit:
Updated: 10/4/13 MS

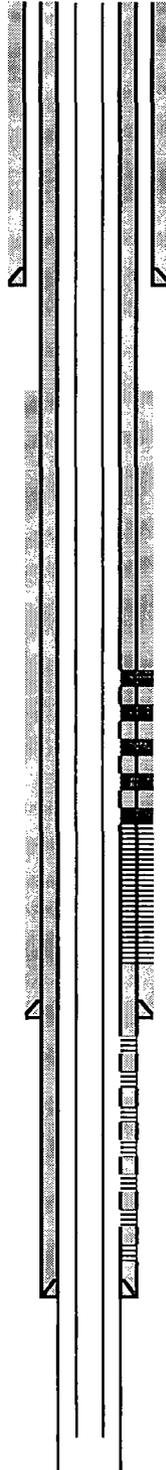
Field: **Langlie Mattix (7-Rivers & Queen)**

LJU #48
Proposed

Reservoir: Langlie Jal

Location:	
Footage:	1980 FNL & 660 FWL
Section:	5, T - 25S, R - 37E
Block:	
Survey:	
County:	Lea
Lat:	
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Elevations:	
GL:	3,233'
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ck w/fog?	n/a

Wellbore Diagram



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Set @:	1205'
Cement w/:	500 sxs
Circ:	Yes
TOC:	Surface

Date	History
1-Dec-39	Natural completed open hole (3413'-3543'). Flowing : Test - 240 bopd 1200 GOR. API Gravity - 40.3 degrees.
23-Apr-43	When well stop flowing. Equiped with Gas Lift System.
29-May-74	Cleaned out to 3,545'. Ran Csg Inspection Log to 3545'. Ran 4 1/2" liner from Surface to 3,541'. Cmt'd w/ 400 sx Class C. Drilled out Cmt to 3541'. Perf'd Queen f/3385'-3411', 3415'-25', 3440'-61', 3467'-81', 3486'-3505', 3508'-22', & 3526'-34', 119 holes. Acidized with 2,000 gals 15% HCl acid.
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Prod. Csg:	7" - 22#, J-55
Set @:	3383'
Cement w/:	300 sxs
Circ:	
TOC:	1415' calc'd @ 75%

Tubing Detail (top to bottom)			
Joints	Description	Footage	Depth
99	2-3/8" tubing	3,119	3,119
1	Tubing Anchor	4	3,123
16	2-3/8" tubing	504	3,627
1	Pump barrel	25	3,652
1	2-3/8" seat nipple	1	3,653
1	2-3/8" perforated sub	4	3,657
1	2-7/8" mud anchor joint	32	3,689

Hole Size:	6 2/7"
Liner:	4 1/2" - 10.5#, J-55
TOL Set @:	Surface
BOL Set @:	3541'
Cement w/:	400 sxs Class C. Circ'd
TOC:	Surface
Circ:	Yes

Rod Detail (top to bottom)			
Rods	Description	Footage	Depth
54	7/8" D sucker rods (25 ft each)	1,350	1,350
80	3/4" D sucker rods (25 ft each)	2,000	3,350
12	1-1/4" K-bars (25 ft each)	300	3,650
1	1-3/4" plunger assembly	1	3,651
1	Gas anchor	15	3,666

PBTD 3707'
TD 3707'

Pumping Unit:
Updated: