

Office  
 District I – (575) 393-6161  
 1625 N. French Dr., Hobbs, NM 88240  
 District II – (575) 748-1283  
 811 S. First St., Artesia, NM 88210  
 District III – (505) 334-6178  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV – (505) 476-3460  
 1220 S. St. Francis Dr., Santa Fe, NM  
 87505

State of New Mexico  
 Energy, Minerals and Natural Resources

Form C-103  
 Revised July 18, 2013

OIL CONSERVATION DIVISION  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-10383
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator LEGACY RESERVES OPERATING LP		6. State Oil & Gas Lease No.
3. Address of Operator 15 SMITH ROAD, SUITE 3000, MIDLAND, TX 79705		7. Lease Name or Unit Agreement Name Langlie Mattix Penrose Sand Unit
4. Well Location Unit Letter <u>I</u> : <u>1980</u> feet from the <u>SOUTH</u> line and <u>660</u> feet from the <u>EAST</u> line Section <u>21</u> Township <u>22S</u> Range <u>37E</u> NMPM County <u>LEA</u>		8. Well Number 101
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3361' GR		9. OGRID Number 240974
		10. Pool name or Wildcat Langlie Mattix; 7 Rvrs-Q-Grayburg

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒  
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
 DOWNHOLE COMMINGLE ☐  
 CLOSED-LOOP SYSTEM ☐  
 OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
 COMMENCE DRILLING OPNS. ☐ P AND A ☐  
 CASING/CEMENT JOB ☐  
 OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

1. MIRU. Pull Injection string and AD-1 packer from 3195'.
2. PUMU 6.625" AW scraper. RIH to 3320'.
3. PUMU 6.625" CIBP. RIH and set @ 3300'.
4. MIRU cementers. RIH with tubing, tag CIBP, spot 25 sx. WOC & Tag- record depth.
5. Circ hole with MLF and P/T casing to 500 # witnessed by NMOC rep.
6. Spot 25 sx cmt @2658'-2558'. (yates)
7. Spot 71 sx cmt @ 2488-2098'. WOC & Tag (Transil (B-salt)/ Est TOC in 6.625")
8. Perf & Sqz 59 sx cmt @ 1273'-1070'. WOC & Tag (Rustler T-salt/ Int. Casing Shoe/ Sqz holes)
9. Perf & Sqz 30 sx cmt @ 300'-200'. WOC & Tag. (Surf Csg Shoe)
10. Spot 25 sx cmt @ 100'. (Surface Plug)
11. Cut off well head, verify cmt at surface, weld on dry hole marker

4" diameter 4' tall Above Ground Marker

Spud Date:

Rig Release Date:

SEE ATTACHED CONDITIONS  
OF APPROVAL

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Melanie Reyes TITLE Regulatory Tech DATE 01/23/2023

Type or print name MELANIE REYES E-mail address: mreyes@legacyreserves.com PHONE: 432-221-6358

For State Use Only

APPROVED BY: Kerry Fortner TITLE Compliance Officer A DATE 2/15/23  
 Conditions of Approval (if any): 575-263-6633

**CONDITIONS OF APPROVAL  
FOR PLUGGING AND ABANDONMENT  
OCD - Southern District**

The following is a guide or checklist in preparation of a plugging program, this is not all inclusive and care must be exercised in establishing special plugging programs in unique and unusual cases, Notify NMOCD District Office I (Hobbs) at (575)-263-6633 at least 24 hours before beginning work. After MIRU rig will remain on well until it is plugged to surface. OCD is to be notified before rig down.

**Company representative will be on location during plugging procedures.**

1. A notice of intent to plug and abandon a wellbore is required to be approved before plugging operations are conducted. A cement evaluation tool is required in order to ensure isolation of producing formations, protection of water and correlative rights. A cement bond log or other accepted cement evaluation tool is to be provided to the division for evaluation if one has not been previously run or if the well did not have cement circulated to surface during the original casing cementing job or subsequent cementing jobs. Insure all bradenheads have been exposed, identified and valves are operational prior to rig up.
2. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to a permitted disposal location.
3. Trucking companies being used to haul oilfield waste fluids to a disposal - commercial or private- shall have an approved NMOCD C-133 permit. A copy of this permit shall be available in each truck used to haul waste products. It is the responsibility of the operator as well as the contractor, to verify that this permit is in place prior to performing work. Drivers shall be able to produce a copy upon request of an NMOCD Field inspector.
4. Filing a subsequent C-103 will serve as notification that the well has been plugged.
5. A final C-103 shall be filed (and a site inspection by NMOCD Inspector to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to Meet NMOCD standards) before bonding can be released.
6. If work has not begun within 1 Year of the approval of this procedure, an extension request must be file stating the reason the well has not been plugged.
7. Squeeze pressures are not to exceed 500 psi, unless approval is given by NMOCD.
8. Produced water will not be used during any part of the plugging operation.
9. Mud laden fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
10. All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
11. Class 'C' cement will be used above 7500 feet.
12. Class 'H' cement will be used below 7500 feet.
13. A cement plug is required to be set 50' above and 50' below, casing stubs, DV tools, attempted casing cut offs, cement tops outside casing, salt sections and anywhere the casing is perforated, these plugs require a 4 hour WOC and then will be tagged
14. All Casing Shoes Will Be Perforated 50' below shoe depth and Attempted to be Squeezed, cement needs to be 50' above and 50' Below Casing Shoe inside the Production Casing.
16. When setting the top out cement plug in production, intermediate and surface casing, wellbores should remain full at least 30 minutes after plugs are set
17. A CIBP is to be set within 100' of production perforations, capped with 100' of cement, WOC 4 hours and tag.
18. A CIBP with 35' of cement may be used in lieu of the 100' plug if set with a bailer. This plug will be placed within 100' of the top perforation, (WOC 4 hrs and tag).

19. No more than 3000' is allowed between cement plugs in cased hole and 2000' in open hole.
20. Some of the Formations to be isolated with cement plugs are: These plugs to be set to isolate formation tops
- A) Fusselman
  - B) Devonian
  - C) Morrow
  - D) Wolfcamp
  - E) Bone Springs
  - F) Delaware
  - G) Any salt sections
  - H) Abo
  - I) Glorieta
  - J) Yates.
  - K) Potash---(In the R-111-P Area (Potash Mine Area),  
A solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts that are common to the section penetrated and in suitable proportions, not more than 3% calcium chloride (by weight of cement) will be considered the desired mixture whenever possible, WOC 4 hours and tag, this plug will be 50' below the bottom and 50' above the top of the Formation.
21. If cement does not exist behind casing strings at recommended formation depths, the casing can be cut and pulled with plugs set at recommended depths. If casing is not pulled, perforations will be shot and cement squeezed behind casing, WOC and tagged. These plugs will be set 50' below formation bottom to 50' above formation top inside the casing.

### **DRY HOLE MARKER REQUIREMENTS**

The operator shall mark the exact location of the plugged and abandoned well with a steel marker not less than four inches in diameter, 3' below ground level with a plate of at least ¼" welded to the top of the casing and the dry hole marker welded on the plate with the following information welded on the dry hole marker:

1. Operator name
2. Lease and Well Number
3. API Number
4. Unit letter
5. Quarter Section (feet from the North, South, East or West)
6. Section, Township and Range
7. Plugging Date
8. County

### **SPECIAL CASES -----AGRICULTURE OR PRARIE CHICKEN BREEDING AREAS**

In these areas, a below ground marker is required with all pertinent information mentioned above on a plate, set 3' below ground level, a picture of the plate will be supplied to NMOCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to NMOCD (We typically require a current survey to verify the GPS)

### **SITE REMEDIATION DUE WITHIN ONE YEAR OF WELL PLUGGING COMPLETION**

## Wellbore Schematic

Printed: 1/18/2023

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LMPSU # 101

BOLO ID: 300029.10.01

API # 3002510383

LMPSU # 101, 1/18/2023

2310 FNL & 660 FEL	GL Elev:	3,361.00	KOP:	
Section 21, Township 22S, Range 37E			EOC:	
County, State: Lea, NM			Fill Depth:	
Aux ID: 39520			PBTD:	3,550.00
'KB' correction: ; All Depths Corr To:			TD:	3,550.00
			BOP:	

## Hole Size

Diameter	Top At	Btm At	Date Drilled
9.8750	0.00	1,350.00	
8.2500	1,350.00	3,350.00	
6.0000	3,350.00	3,636.00	

Open hole. Bore size estimated.

## Surface Casing

Date Ran: 10/30/2008

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing		8.6250			1,350.00	0.00	1,350.00

## Production Casing

Date Ran: 10/30/2008

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing		7.0000			3,350.00	0.00	3,350.00

## Production Liner

Date Ran: 10/30/2008

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing		4.5000	10.50		3,308.00	0.00	3,308.00

## Cement

Top At	Btm At	ID	OD	TOC Per	# - Type	# Sx	Class	Wt.
0.00	1,350.00	8.625	9.875	Circ	10	300		
0.00	3,350.00	7.000	8.250	Circ	20	200		
0.00	3,308.00	4.500	7.000	Circ	30	250		

## Zone and Perfs

## SEVEN RIVERS

## Comments / Completion Summary

6/28/36: Shot from 3490 - 3548 with Nitro.  
 5/11/1938: drilled to 3636 and shot with Nitro.  
 11/15/1955: Frac treatment.  
 5/21/1971: Frac treatment.

## Perforations

Top	Bottom	Formation	Status	Opened	Closed	# / Ft	Ttl #
3,350.00	3,636.00	Penrose Sand					

## Tubing

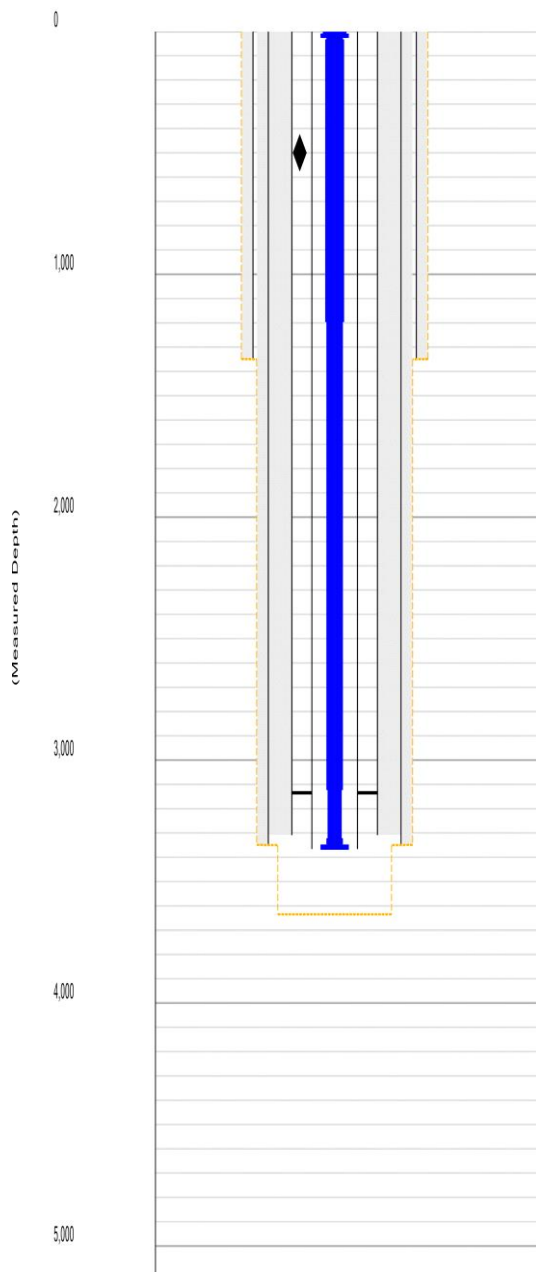
Date Ran: 11/26/2013

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Tubing	98	2.3750			3,133.00	0.00	3,133.00
Tubing Anchor	1	4.5000			3.00	3,133.00	3,136.00
Tubing	5	2.3750			161.00	3,136.00	3,297.00
Tubing	2	2.3750			64.00	3,297.00	3,361.00
Seat Nipple	1	2.3750			1.00	3,361.00	3,362.00

## Rods

Date Ran: 2/17/2016

Description	#	Diameter	Rod Box	Grade	Length	Top At	Btm At
Polish Rod	1	1.2500	SH SM		26.00	0.00	26.00
Polish Rod Liner	1	1.5000			16.00	10.00	26.00
Pony Rods	2	0.8750	SH SM		8.00	26.00	34.00
Rods	31	1.0000	SH SM	FG	1,162.50	34.00	1,196.50
Rods	77	0.8750	SH SM	N90	1,925.00	1,196.50	3,121.50
Rods	8	0.7500	Full SM	N90	200.00	3,121.50	3,321.50
Rods	1	0.8750	SH SM	N90	25.00	3,321.50	3,346.50
Rods	1	0.7500	Full SM		2.00	3,346.50	3,348.50



◇ = Fluid Level with Gas


◇ = Net Fluid Level

Wellbore Schematic

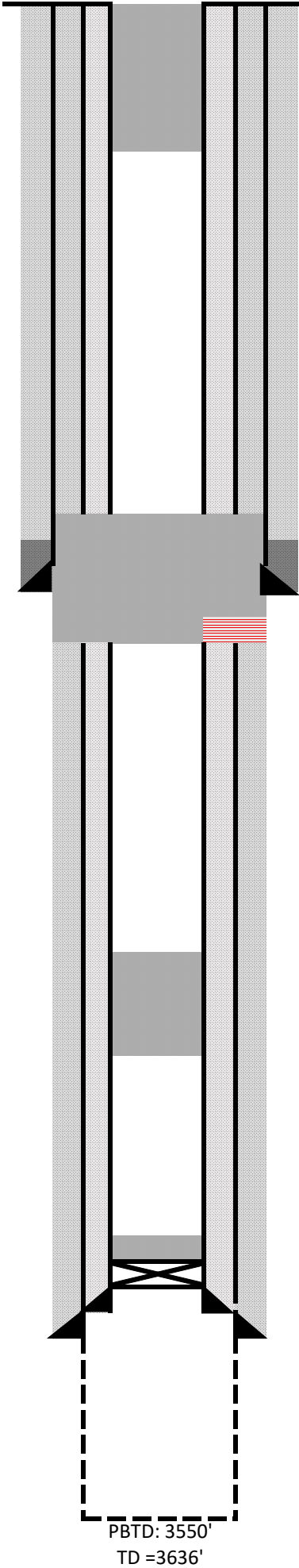
Printed: 1/18/2023

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LMPSU # 101			BOLO ID: 300029.10.01			API # 3002510383		
Pump	1	1.5000			20.00	3,348.50	3,368.50	
2 x 1 1/2 x 20 - 4								



Langlie-Mattix Penrose Sand Unit #101		API#:	30-025-10383		Author: J. Valdez
Field/Pool:	Langlie-Mattix; 7Rvrs-Queen-Grayburg	Section:	21		
County:	Lea	Township:	22S	Range: 37E	
State:	New Mexico	Location:	1980' FSL x 660' FEL		
Spud Date:	5/3/1936	GL:	3361'	PBTD: 3550'	



Description	O.D.	Weight	Top	Depth	Hole	Cmt Sx	TOC
Surface	8.25	29	0	1350	9.875	300	Unknown- Est 0'
Production	7	20	0	3350	7.875	200 sx	0' calc
Production Inner-string	4.5	10.5	0	3308	7	350 sx	Circ'd
Open Hole	3.875" est		3350	3636	5.75/3.875	0	Open Hole

7. Cut off well head, verify cmt at surface, weld on dry hole marker.

6. Spot 25 sx cmt @ 100'. (Surface Plug)

8.25" Surface Casing @ 1350'

5. Perf & Sqz 31 sx cmt @ 1400'-1175'. WOC & Tag (Rustler T-salt/ Surf Casing Shoe)

4. Spot 25 sx cmt @2674'-2406'. WOC & Tag (Yates/ Transil (B-salt))

3. Circ hole with MLF and P/T casing to 500 # witnessed by NMOCD rep.

2. MIRU cementers. RIH with tubing, tag CIBP, spot 25 sx. WOC & Tag- record depth.

1. PUMU 4.5" CIBP. RIH and set @ 3280'.

4.5" Production Inner-String @3308' (1993)

7" Production Casing @ 3350'

2.375" Tubing to 3360' with 1.5" Insert Pump

5.75"/3.875" (est) Open Hole 3350'-3636'

PBTD: 3550'

TD =3636'

Formation Tops:	
Rustler (T-Salt)	1225'*
Transil (B-Salt)	2456'*
Yates	2624'*
7Rivers	2830'*
Queen	3394'*

\* Used offset well LMPSU #522

**District I**  
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**District III**  
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**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

COMMENTS

Action 178360

COMMENTS

Operator: LEGACY RESERVES OPERATING, LP 15 Smith Road Midland, TX 79705	OGRID: 240974
	Action Number: 178360
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

COMMENTS

Created By	Comment	Comment Date
plmartinez	DATA ENTRY PM	2/16/2023

**District I**  
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CONDITIONS

Created By	Condition	Condition Date
kfortner	See attached COA	2/15/2023