

Submit 1 Copy To Appropriate District 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

WELL API NO. 30-015-32890
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B-2613
7. Lease Name or Unit Agreement Name IMPALA STATE
8. Well Number 1
9. OGRID Number 240974
10. Pool name or Wildcat TAMANO; DELAWARE

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.)

1. Type of Well: Oil Well  Gas Well  Other

2. Name of Operator  
LEGACY RESERVES OPERATING LP

3. Address of Operator  
PO BOX 10848, MIDLAND, TX 79702

4. Well Location  
 Unit Letter O : 990 feet from the SOUTH line and 1650 feet from the EAST line  
 Section 36 Township 17S Range 31E NMPM County LEA

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
3827' GR

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL. <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input checked="" type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

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.

SEE ATTACHED PLUGGING PROCEDURE ALONG WITH CURRENT & PROPOSED WELLBORE DIAGRAMS

Approved for plugging of well bore only.  
 Liability under bond is retained pending receipt of C-103 (Subsequent Report of Well Plugging) which may be found at OCD Web Page under Forms. www.emnrd.state.nm.us/oed.

NM OIL CONSERVATION  
 ARTESIA DISTRICT  
 JUN 4 2015

RECEIVED

Spud Date:

Rig Release Date:

well bore must be plugged by 6-11-2016

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

SIGNATURE Kent Williams TITLE SENIOR ENGINEER DATE 06/02/2015

Type or print name KENT WILLIAMS E-mail address: kwilliams@legacylp.com PHONE: 432-689-5200

For State Use Only

APPROVED BY: RDaele TITLE Dist. Supervisor DATE 6/11/2015

Conditions of Approval (if any):

\* See Attached COA's

## PLUG AND ABANDONMENT PROCEDURE-PROPOSED

### **Impala State #1**

Tamano (Delaware) Field  
Lea Co., NM  
API: 30-015-32890

Engineer: Kent Williams  
Company: Legacy Reserves Operating, LP  
Date: 6/1/2015

Purpose Of Procedure: Plug and abandon. Will perform turn-key PXA with approved vendor.

### **Pre-Job:**

- Check location for required dirtwork
- Test pulling unit anchors if necessary

### **Procedure:**

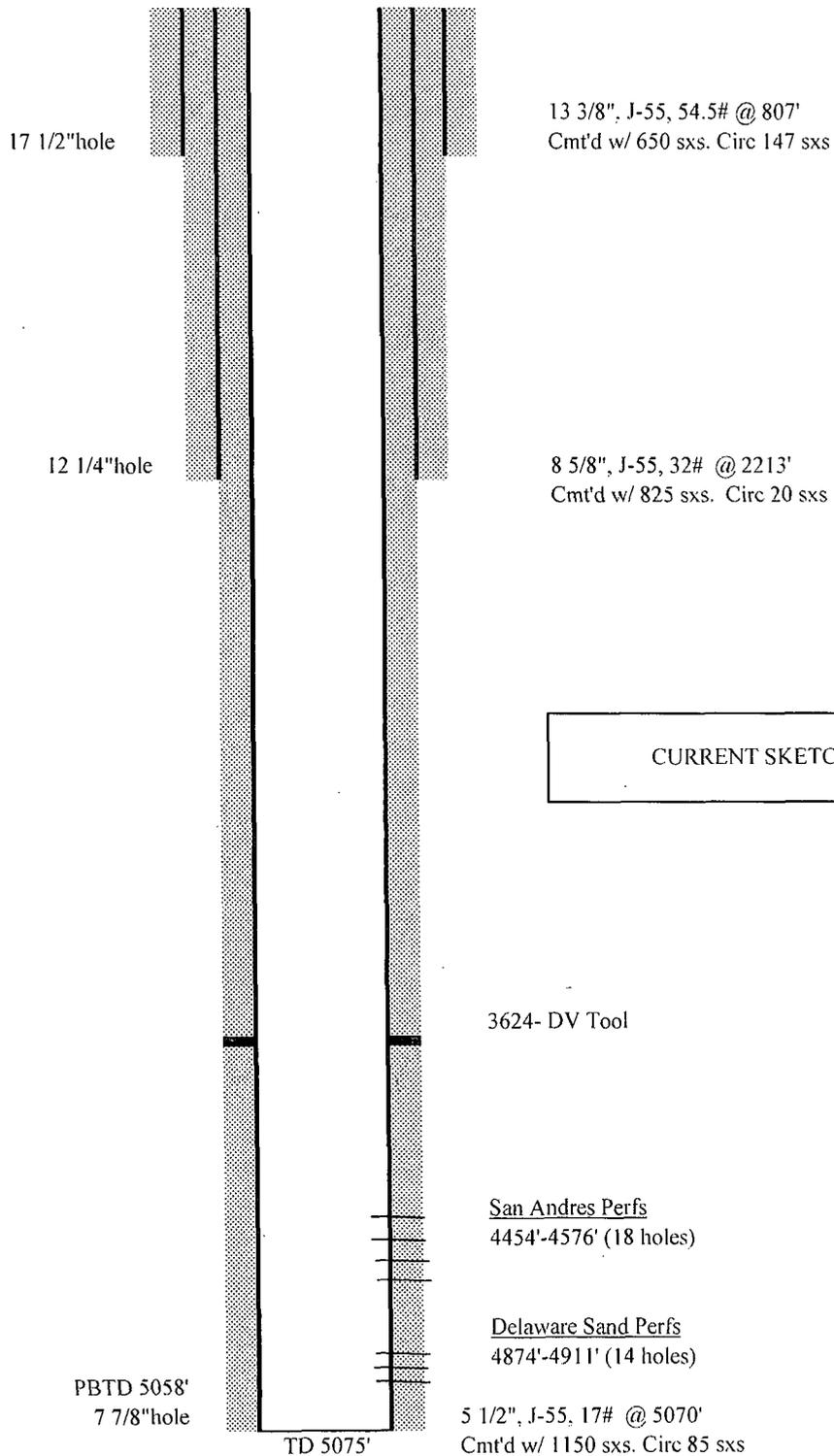
1. MIRU plugging company. NU 2000# minimum rated BOP.
2. POH w/ rods, pump and 2 7/8" tbg.
3. Plug #1 (Perforation Plug) RIH and set 5 1/2" CIBP at 4400' (16' KB). Wireline dump bail 4 sxs cmt on top of plug from 4400'-4365' (35'). No tag required.
4. RIH tbg. Circulate the casing w/ 9.5 PPG mud laden fluid. Csg Volume = 101 bbls
5. Plug #2 (Casing Plug) Spot 18 sxs cmt from 3300'-3150' (150'). No tag required.
6. Plug #3 (Casing Shoe Plug) Spot 18 sxs cmt from 2263'-2113' (150'). WOC, Tag plug.
7. Plug #4 (Surface Plug) Circ 6 sxs from 60'-0' (60'). Top off csg at surface as necessary.
8. Cut off well head. Weld on dry hole marker. Backfill cellar as necessary. Clean location. RDMO.

### **Note:**

- Use Class "C" Neat Cement , 1.32 ft<sup>3</sup>/sx cmt yield
- Use 9.5 PPG mud laden fluid (25 sxs @ 50 # gel/sx in 100 bbls brine).
- Notify NNOCD office (Hobbs , NM) at (575) 393-6161 at least 24 hrs prior to initiating plugging.

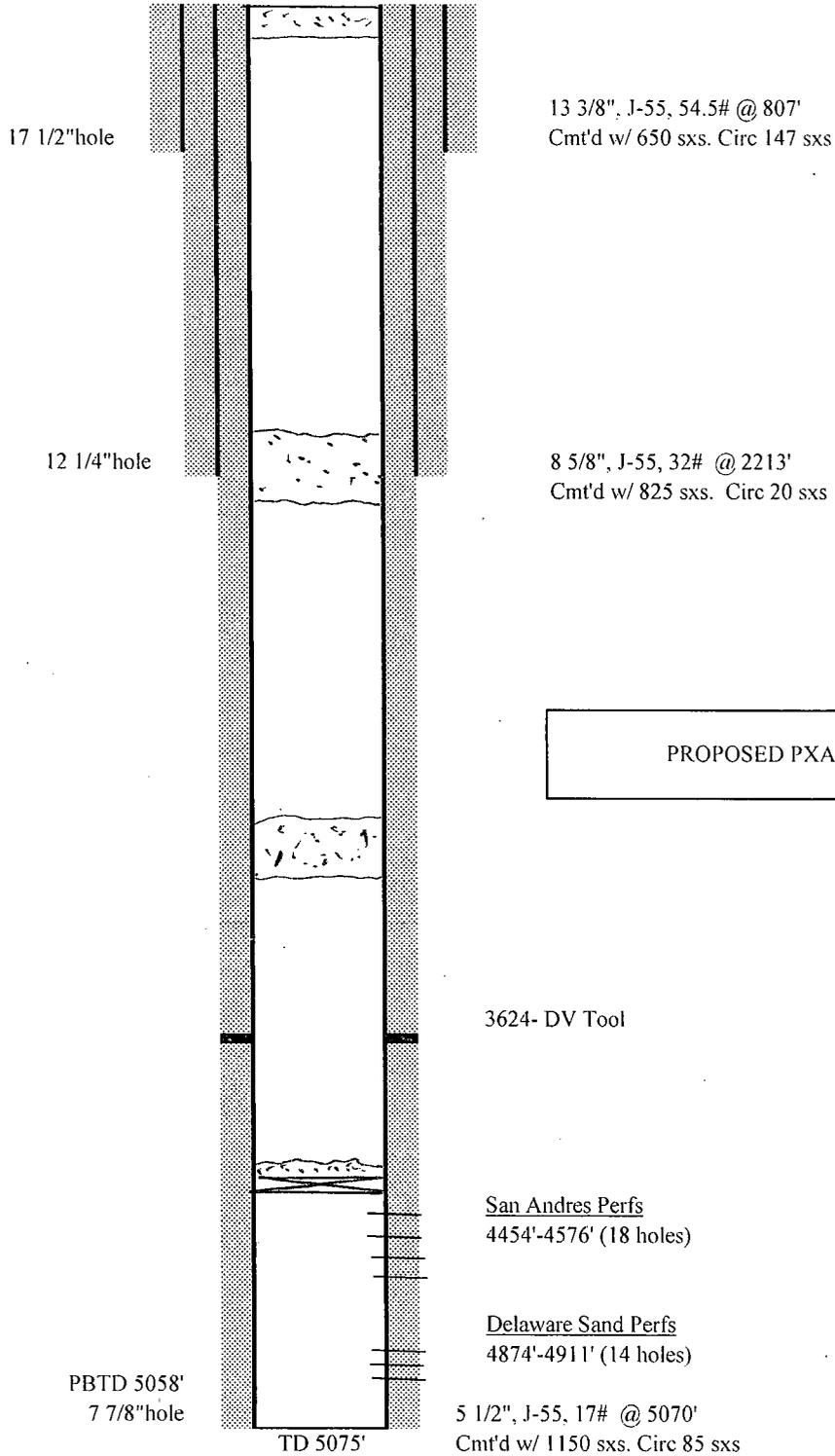
## WELLBORE SCHEMATIC

Well Name & No.:	Impala State #1		
Field:	Tamano (Delaware) Field		
Location:	990' FSL, 1650' FEL, Sec. 36, T-17-S, R-31-E		
County:	Eddy	State:	NM API #: 30-015-32890
GR Elev:	3827.0	Spud Date:	08/31/03
KB:	16.0	Original Operator:	Mack Energy Corp
GR Elev:	3843.0	Original Lease Name:	Same



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GR Elev:	3843.0	Original Lease Name:	Same



NEW MEXICO OIL CONSERVATION DIVISION  
DISTRICT 2 OFFICE  
811 S. FIRST STREET  
ARTESIA, NM 88210  
(575)748-1283

**CONDITIONS OF APPROVAL FOR PLUGGING & ABANDONMENT**

Operator: Legacy  
Well Name & Number: Impala State 1  
API #: 30-015-32890

1. Produced water **will not** be used during any part of the plugging & abandonment operation.
2. Notify NMOCD Dist. 2 office at least 24 hrs before beginning work.
3. Closed Loop System is to be used for entire plugging operation. Upon completion, contents of steel pit are to be hauled to a permitted disposal location.
4. 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 place prior to performing work. Drivers shall produce a copy upon request of NMOCD Field Inspectors.
5. A subsequent C-103 will serve as notification that the well bore has been plugged **ONLY**. A C-103 **FINAL** shall be filed before any bonding can be released on the well. Upon receipt of the Final, an inspection will be performed to verify that the location has been satisfactorily cleaned to NMOCD standards.
6. If work has not begun within 90 days of the approval of this procedure, an extension request must be filed, stating reason that well has not been plugged.
7. Every attempt must be made to clean the well bore out to below the perms, before any plugs can be set, by whatever means possible.
8. **Cement Retainers may not be used.**
9. **Squeeze pressures are not to exceed 500 PSI, unless approval is given by NMOCD.**
10. **Plugs may be combined after consulting with and getting approval from NMOCD.**
11. **Minimum WOC time for tag plugs will be 4 Hrs.**

*AD*

6/11/2015

# GUIDELINES FOR PLUGGING AND ABANDONMENT

## DISTRICT II / ARTESIA

- All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater.
- Mud laden fluids must be placed between all cement plugs.
- Mud laden fluids must be mixed at 25 sacks of gel per 100 bbls of water.
- A cement plug is required to be set 50' below and 50' above all casing shoes and casing stub plugs. These plugs must be tagged.
- A CIBP with 35' of cement on top may be set in lieu of 100' cement plug.
- A plug as indicated above must be placed within 100' of top perforation. This plug must be tagged.
- Plugs set below and above salt zones must be tagged.
- No more than 2000' is to be allowed between cement plugs in open hole and no more than 3000' in cased hole.
- DV tools are required to have a 100' cement plug set 50' above and below the tool and must be tagged.
  
- Formations to be isolated with plugs placed at the top of each formation are:
  - Fusselman
  - Devonian
  - Morrow
  - Wolfcamp
  - Bone Spring
  - Delaware
  - Any Salt Section (Plug at top and bottom)
  - Abo
  - Glorieta
  - Yates (this plus is usually at base of salt section)
  
- If cement does not exist behind casing strings at recommended formation depths, the casing must be cut and pulled with plugs set at these depths or casing must be perforated and cement squeezed behind casing at the formation depths.
- 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 common to the section penetrated and in suitable proportions, but not more than a 3% calcium chloride by weight of cement will be considered the desired mixture whenever possible (50' below and 50' above).