

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 August 1, 2011

HOBBS OCD  
JUN 06 2013

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

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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. 30-025-34019
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 P.O. BOX 10848 MIDLAND, TX 79702		7. Lease Name or Unit Agreement Name SKELLY PENROSE A UNIT
4. Well Location Unit Letter <u>I</u> : <u>2300</u> feet from the <u>SOUTH</u> line and <u>1250</u> feet from the <u>EAST</u> line Section <u>3</u> Township <u>23S</u> Range <u>37E</u> NMPM County <u>LEA</u>		8. Well Number <u>89</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3298' GR		9. OGRID Number 240974
		10. Pool name or Wildcat Langlie Mattix; 7 Rvrs-Queen-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 ☐

SUBSEQUENT REPORT OF:

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

OTHER: ACIDIZE AND RTP ☒

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.

---SEE ATTACHED PROCEDURE---

OCD Condition of Approval:  
After remedial work has been done. Forms required are:  
C-103 Subsequent Report with dates and the work that was done, and  
C-104 with transporter(s), perms producing from, tubing size and depth  
& 24 hour production test.

Spud Date:

Rig Release Date:

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 06/04/2013

Type or print name KENT WILLIAMS E-mail address: \_\_\_\_\_ PHONE: 432-689-5200

For State Use Only

APPROVED BY: Maribel Pita TITLE Compliance Officer DATE 06-07-2013

Conditions of Approval (if any):

## ACIDIZE & RETURN TO PRODUCTION PROCEDURE

### **Skelly Penrose A Unit # 89**

Field: Landlie Mattix

Zone: Penrose Sand (Queen)

County: Lea Co, NM

Date: 4/12/13

Engineer: Kent Williams

Company: Legacy Reserves Operating, LP

Purpose Of Procedure: Return TA'ed well to active production. Acid stimulate pay section to increase production. Will have to purchase pumping unit, rods and tubing. Well was TA'ed in June 2004.

### Procedure:

1. MIRU pulling unit. Install 3000# minimum WP BOP.
2. RIH w/ 4.375" bit, DC's and 2 7/8" workstring tbg. RU reverse unit and power swivel.
3. Drillout 5" CIBP at 3455' and 35' cement on top at 3420'. Push CIBP to btm.
4. CO fill to PBTD of 3740'
5. RIH w/ 5 1/2" pkr, 2 7/8" tbg and SN to btm perf at 3640'. Hydrotest tbg to 5000# going in hole. Leave pkr swinging. Run swab thru tubing to cleanout tubing. Flush tbg with 21+ bbls 2% KCL. Drop 2500# spot control valve into SN. Spot 200 gal (4.8 bbl) 15% NEFE Dbl Inhibited HCL across perfs.. Do not move tubing for 15 minutes.
6. PU pkr and set pkr at 3470'. Load annulus w/ 2% KCL. Test csg and pkr to 500#. Bleed off pressure.
7. RU acidizers. Acidize Penrose Sand perfs 3520'-3640' (120') w/ 5,000 gal 15% NEFE HCL at 6 BPM with 2,500 gal (60 bbl) of gelled brine and 5,000# rock salt to divert. Test lines to 5000# before job. Maximum pressure 4500#.

### Acid Procedure:

- 1). 2,500 gal (48 bbls) 15% NEFE HCL
- 2). 1,500 gal (36 bbls) gelled brine w/ 3,000 # rock salt @ 2 PPG
- 3). 1,500 gal (48 bbls) 15% NEFE HCL
- 4). 1,000 gal (24 bbls) gelled brine w/ 2,000 # rock salt @ 2 PPG
- 5). 1,000 gal (248 bbls) 15% NEFE HCL
- 6). Displace acid with 75 bbls of 2% KCL water to clear tbg and casing and dissolve rock salt.  
(Displacement : 75 bbls = 18 bbls (btm perf) + 57 bbls (overflush)  
Monitor 5,10 and 15 min shutin.
8. Flow back to frac tank
9. POH w/ tbg and treating pkr. LD workstring tbg.
10. RIH w/ production equipment for rod pump installation. Hydrotest production tubing to 5000# going in hole. Set SN at btm perf of 3640'. Rodstring design will be supplied by Midland Office.
11. RD BOP. Flange up wellhead. RDMO pulling unit.

Note: Production Department will move pumping unit to location from another SPAU well and hang well on pump.

## **Skelly Penrose A Unit # 89**

### **Misc Information:**

AFE Cost - \$ 105,000    AFE # - 213064

BWO – 0 x 0 x 0 (TA'ed)

AWO - 4 x 127 x 0 (Forecast)

### **Volumes & Strengths –**

Tubing :	2 7/8" 6.5# J-55 -	<u>0.0058 bbl/ft</u> , 2.441" ID, 2.347" Drift, Burst 7260#, Collapse 7680#, Cplg OD 3.668"
Casing:	5 1/2" 17# J-55-	<u>0.0232 bbl/ft</u> , 4.892" ID, 4.767" Drift, , Burst 5320# , Collapse 4910#
Annulus:	2 7/8" x 5 1/2" 17#-	<u>0.0152 bbl/ft</u>

## WELLBORE SCHEMATIC

Well Name & No.:	Skelly Penrose A Unit # 89			
Field:	Langlie Mattix (7Rivers/Queen/Grayburg)			
Location:	2300 ' FSL x 1250' FEL, Sec. 3 , Unit Letter I, T-23-S, R-37-E			
County:	Lea	State:	NM	API #:
				30-025-34019
GR Elev:	3298	Spud Date:	06/23/97	
KB :	10.0	Original Operator:	Apache Corp.	
KB Elev:	3308	Original Lease Name:	Skelly Penrose A Unit # 89	

