

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. 30-025-11290	
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>	
6. State Oil & Gas Lease No. 141560	
7. Lease Name or Unit Agreement Name COOPER JAL UNIT	
8. Well Number 228	
9. OGRID Number 240974	
10. Pool name or Wildcat Jalmat; Tansill-Yates-7Rivers	
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 <input type="checkbox"/> Gas Well <input type="checkbox"/> Other INJECTOR	
2. Name of Operator LEGACY RESERVES OPERATING LP	
3. Address of Operator P.O. BOX 10848, MIDLAND, TX 79702	
4. Well Location Unit Letter <u>C</u> : <u>660</u> feet from the <u>NORTH</u> line and <u>1917</u> feet from the <u>WEST</u> line Section <u>30</u> Township <u>24S</u> Range <u>37E</u> NMPM County <u>LEA</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3267' GL	

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

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

**Condition of Approval: notify  
 OCD Hobbs office 24 hours  
 prior of running MIT Test & Chart**

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 [Signature] TITLE OPERATIONS ENGINEER DATE 09/24/2015

Type or print name JOHN SAENZ E-mail address: jsaenz@legacylp.com PHONE: (432) 689-5200

**For State Use Only**

APPROVED BY: [Signature] TITLE Dist. Supervisor DATE 9/29/2015  
 Conditions of Approval (if any)

OCT 07 2015

Cooper Jal Unit #228  
API: 30-025-11290  
Lea County, New Mexico  
9/10/2015

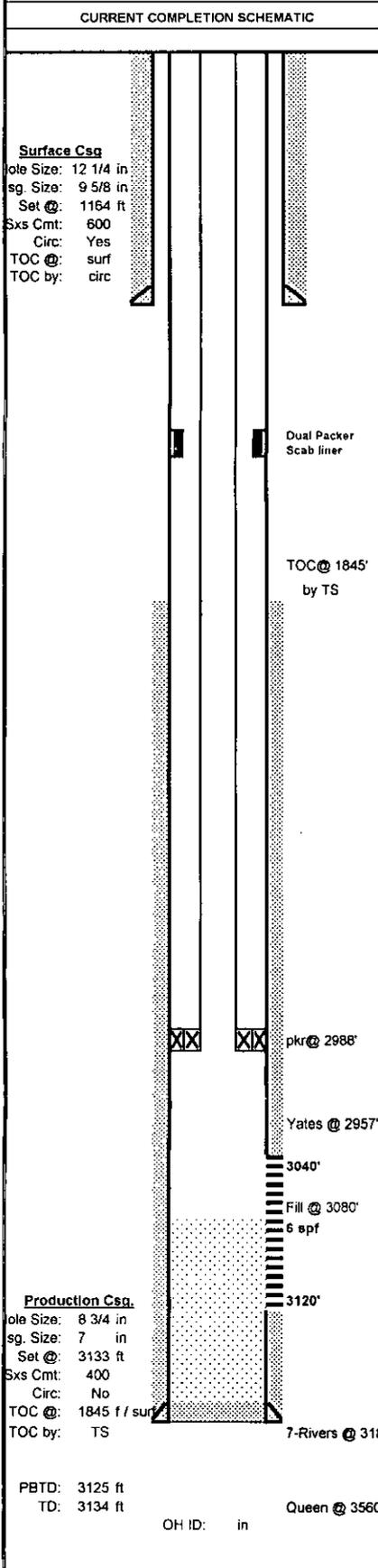
**Note: Well will not pass a MIT.**

**Proposed Procedure**

1. MIRU pulling unit. Install BOP and POOH with injection packer and tubing.
2. PU work string and set RBP at 2900'. Circulate hole with kill fluid.
3. Isolate casing leak.
4. TOOH with RBP. RIH with injection packer with plug in place. Set and test injection packer @ 2988'.
5. TOOH and lay down extra work string. Pick up and run in with dual packer scab liner. Set scab liner across casing leak.
6. Pressure test casing.
7. TOOH and lay down work string.
8. PU and RIH with injection tubing. Circulate packer fluid.
9. Perform pressure test to 500 psi and Rig down
10. Do state MIT and return to injection.

John Saenz

**WELLBORE SCHEMATIC AND HISTORY**



LEASE NAME: **Cooper Jal Unit** WELL NO: **228 WIW**  
 STATUS: **Active** Water Injector API#: **30-025-11290**

LOCATION: **660 FNL & 1917 FWL, Sec 30, T - 24S, R - 37E; Lee County, New Mexico**  
 SPUD DATE: **TD 3134 KB 3,278' DF 3,276'**  
 INT. COMP. DATE: **11/24/49 PBDT 3125 GL 3,287'**

**ELECTRIC LOGS:** GR-N from surface - 3130' (11-13-49 Lane Wells)  
 Temperature Survey (11-14-49 Halliburton)  
 Tracer Survey ( 11-8-76 Cardinal Surveys)

**GEOLOGICAL DATA** **CORES, DST'S or MUD LOGS:**

**HYDROCARBON BEARING ZONE DEPTH TOPS:**  
 Yates @ 2957'      7-Rivers @ 3187'      Queen @ 3560'

**CASING PROFILE**  
 SURF. 9 5/8" - 32#, J-55 set@ 1164' Cmt'd w/600 sxs - circ cmt to surf.  
 PROD. 7" - 20#, J-55 set@ 3133' Cmt'd w/400 sxs - TOC @ 1845' from surface by Temp. Survey.  
 LINER None

**CURRENT PERFORATION DATA**  
 CSG. PERFS: 3040 - 3120' w/6 spf (480 holes total) OPEN HOLE :  
**TUBING DETAIL** 5/8/2008 **ROD DETAIL**

Length (ft)	Detail
9 KB	(as used in 10-17-88 workover)
2988 92	2 3/8" 4.7#, CL, J-55, 8rd EUE tbg.
4 1	7" x 2 3/8" Baker AD-1 packer
3001	btm

**WELL HISTORY SUMMARY**

24-Nov-49 Initial completion interval: (Yates) 3040 - 3120' w/ 6 spf (480 holes total): treated w/ 500 gals 15% HCL and 500 gals 20% HCl acid. IP = 63 bopd, 0 bwopd, & 74 Mcfgpd (flowing). API Grvty = 35.8

30-Apr-74 **CONVERTED TO INJECTION:** Tagged TD @ 3125'. Acidz'd perfs (3040 - 3120') w/ 3,000 gals 15% HCL in two stages. Ran pkr on 2 3/8" CL tbg. Initiated injection @ 100 bwpd.

18-Mar-76 Replaced 1 jt tbg. Ran new pkr. Set pkr @ 2954'. Initiated injection.

8-Nov-76 Ran injection profile. Found 39' of fill and no flow below 3081'.

11-Aug-88 SI due to tbg. Leak.

20-Oct-88 C/O fill (scale & iron sulfide) f/ 3051'-3125' (74'). Acidz'd perfs (3040'-3120') w/ 2,500 gals containing 2% Mutual Solvent. Ran new pkr & 2 3/8" CL tbg. Set pkr @ 2924'. Initiated injection @ 560 bwpd, TP=450 psi. Tag TD using SL unit ( 1 1/4" x 5' sinker bar). Tag fill @ 3029' (104' of fill)

14-Feb-02 POOH w/ 2 3/8" IPC tubing string & 2 3/8" x 7" Baker Model AD-1 PKR. RIH w/ 6 1/8" bit & 4 - 4 1/4" drill collars on 2 7/8" tubing. Tagged fill at 3003'. Cleaned out to PBDT at 3125'. POOH & laid down w/ work string, drill collars, & bit. RIH w/ 2 3/8" x 7" Baker Model AD-1 Tension packer hydrotesting 2 3/8" IPC tbg to to 5000#. Located packer at 2988'. Circ'd annulus w/ 100 bbls of 2 % KCl water plus PKR fluid. Set packer & pressure test to 560 psig for 30 minutes. Pulled chart for TRC filing. Prior rate and pressure: 339 BWPD at 600 psig. After rate & pressure: 336 BWPD at 600 psig. Maximum allowable pressure is 600 psig.

25-Mar-04 Pumped 30 bbls surfactant water. Acidized with 1000 gals 15% NEFE HCl acid @ 2.3 BPM. Flushed with 13.2 bbls water. Prior rate & pressure: 360 BWPD @ 775 psig. After rate & pressure: 335 @ 650 psig.

06-Dec-04 Prior rate & press: 300 BWPD @ 1000#. RIH w/1 1/4" Perf-Clean Tool on 1 1/4" coil. Washed f/2995' to 3125', made a passes w/ surfactant water. CTP=3500#, Annulus Press=100#. Acidized w/3500 gals 15% NEFE acid, could not go passed 3077'. CTP=4000#, Annulus Press= 900#. ISIP=820#. PWOI. After rate & pressure: 278 bwpd @ 600#. RIH with 1 1/4" sinker bar and tagged at 3,100'.

09-Nov-05 02-May-08 SITP = 900 psi.- Bled pressure. POOH w/ injection string & 7" AD-1 PKR. RIH w/ 6 1/8" bit on work string. Tagged fill @ 3057'. Cleaned out to 3134' - recovered scale & iron sulfide. RIH with 7" AD-1 PKR on 2 3/8" IPC tubing. Set PKR @ 2988'. Circ'd annulus, pressure test to 400 psi. Pulled pressure chart for OCD.

27-Sep-11 Injection profile shows: fill @ 3080' (60' fill), 90% into main pay, 10 into fill. Rate: 377 bwpd @ 800 psig.

OH ID: in  
 Queen @ 3560' Top of Anhydrite @ 1110'

PREPARED BY: **Larry S. Adams** Domingo Carrizales UPDATED: **06-Jun-08**