

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

<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. 30-025-09628
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> INJECTOR <b>HOBBS OCD</b>		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator LEGACY RESERVES OPERATING LP <b>SEP 21 2015</b>		6. State Oil & Gas Lease No. 141560
3. Address of Operator P.O. BOX 10848, MIDLAND, TX 79702		7. Lease Name or Unit Agreement Name COOPER JAL UNIT
4. Well Location Unit Letter <u>A</u> : <u>660</u> feet from the <u>NORTH</u> line and <u>330</u> feet from the <u>EAST</u> line Section <u>24</u> Township <u>24S</u> Range <u>36E</u> NMPM County <u>LEA</u>		8. Well Number <u>201</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3316' GR		9. OGRID Number 240974
		10. Pool name or Wildcat Jalmat; Tansill-Yates-7Rivers

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 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 checked="" type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input 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 procedure----

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 09/15/15

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

**For State Use Only**

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 09/22/15

Conditions of Approval (if any):

SEP 23 2015

*hm*

**Cooper Jal Unit #201  
API: 30-025-09628  
Lea County, New Mexico  
9/10/2015**

**Note: Well will not pass a MIT. Suspect a shallow casing leak. During MIT production casing and surface casing communicated. Wellbore diagram has top of cement at 145' by calculation.**

**Proposed Procedure**

1. Dig up around well head to 4' below surface casing head.
2. MIRU pulling unit. Install BOP and POOH with injection packer and tubing, lay down tubing.
3. PU work string and set RBP at 2850'. Circulate hole with kill fluid.
4. Isolate casing leak.
5. Run CBL and CCL. From surface to 2850'. Lay down work string if room is needed.
6. Remove BOP. Remove slips from well head and pick up on production casing.
7. MIRU Back off service and attempt to back off production casing 2 collars below leak.
8. Rig down Back off service. POOH and lay down production casing.
9. Pickup new 5-1/2" 14#/ft casing, RIH, and screw into old casing.
10. Rebuild wellhead and install BOP.
11. Pressure test casing.
12. RIH with work string and remove RBP. TOOH and lay down.
13. PU and RIH with injection tubing and injection packer. Set packer at 2886' and circulate packer fluid.
14. Perform pressure test to 500 psi and Rig down
15. Do state MIT and return to injection.

John Saenz

## WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC		Cooper Jal Unit		WELL NO. (Formerly No. 233) 146 WIW
LEASE NAME		Active		Water Injector
STATUS:		Active		API# 30-025-09560
LOCATION:		1650 FSL & 990 FEL, Sec 13, T - 24S, R - 36E, Lee County, New Mexico		
SPUD DATE:		TD	3642	KB 3,334' DF
INT. COMP. DATE:		06/30/50	PBTD 3575	GL 3,326'
ELECTRIC LOGS:		GEOLOGICAL DATA		
GR-N from 2100 - 3641' (9-1-71 Dresser Atlas)		CORES, DST'S or MUD LOGS:		
Injection Profile (4-26-95 Houston, Inc.)				
GR-CCL from 3640 - 2800' (6-1-94 Halliburton)				
HYDROCARBON BEARING ZONE DEPTH TOPS:				
Yates @ 3001		7-Rivers @ 3216' Queen @ 3562'		
Casing Profile				
SURF. 8 5/8" - 28#, J-55 set@ 300' Cmt'd w/75 sxs - TOC @ 35' f/ surf by calc.				
PROD. 5 1/2" - 14#, J-55 set@ 3034' Cmt w/200 sxs - TOC @ 1980' by calc. DV tool @ 1269. Cmt w/200 sxs - TOC @ 200' by calc.				
LINER 4" - 9.11#, FJ-40 set from 2980 - 3642' Cmt'd w/50 sxs - cmt circ out TOL @ 2980'				
CURRENT PERFORATION DATA				
CSG. PERFS:		OPEN HOLE : 3433 - 3591'		
		Selectively Isolated behind 4" liner		
21-Sep-71	Perf'd Yates f/ 3008'-26', 3046'-60', 3079'-83', 3112'-18', 3126'-31', 3143'-50', 3193'-3202', 3207'-16' & 3260'-16',			
21-Sep-71	Perf'd 7-Rivers f/ 3260'-68', 3394'-96', 3404'-06', 3414'-16', 3428'-38', 3454'-72', & 3482'-90'			
21-Sep-71	Perf'd Queen f/ 3566'-70', 3607'-10' & 3625'-28'			
24-May-94	Perf'd Yates f/ 3027' - 3036' & 3085'-3095'			
	3027 - 36' w/ 2 spf (20 holes total)	3088 - 3268' w/1 spf (80 holes total)		
	3085 - 95' w/ 2 spf (20 holes total)	3394 - 3628' w/ 1 spf (48 holes total)		
TUBING DETAIL		ROD DETAIL		
5/14/2008				
Length (ft)		Detail		
11 KB				
2921 95 jts - 2 3/8" 4.7#, IPC, J-55, 8rd EUE tbg.				
3 1-4" x 2 7/8" Baker Model AD-1 packer				
2935 btm				
WELL HISTORY SUMMARY				
30-Jun-50 Initial completion interval: 3034 - 3235' (Yates/7RVRS OH). Acidz'd w/1,000 gals.				
IP=54 bopd, 0 bwpd, 61 Mcfgpd (flowing)				
25-Feb-71 Production: 305 Mcfgpd @ FTP=121 psig				
21-Sep-71 CONVERTED TO INJECTOR: Drld from 3235 - 3642'. Underreamed OH from 4 3/4" to 6". Installed 4" liner.				
Perf'd (Jalmat) 3008 - 3268' and (Langlie Mattix) 3394 - 3628'. Acidz'd w/5,360 gals 20% HCL.				
28-Sep-87 Attempt to pull dual inj. equip. C/O & acidz'd. Unable to recover fish (30' - 2 3/8" 4.7# EUE, 8rd CL tbg, Baker AD-1 PKR. flow controller & 1jt - 2 3/8" 4.7# EUE, 8rd cmt L/T w/bull plug.). TOF@ 3164'. Ran tbg & pkr. Set Pkr @ 2921'. PWOP.				
24-May-94 Recoverd all of fish lost in 9/87. C/O to 3575' pushing pkr rubber below bit. PBTD @ 3575'. Test liner top - communication. Ran GR-CCL from 3640 - 2800'. Perf'd 3027 - 36' and 3085 - 95'. Ran pkr on 2 3/8" IPC tbg. Set pkr at 2951'. Initiated injection @ 937 bwpd, TP=400 psi.				
14-Feb-02 Tag TD using SL unit ( 1 1/4" x 5' sinker bar). Tag fill @ 2971' (671' of fill).				
19-Feb-04 POOH w/ 2 3/8" IPC injection string & 5 1/2" Packer. RIH w/ 3 5/16" bit & 6 - 2 3/8" drill collars on 2 3/8" work string. Tagged at 3318', C/O to 3642' - recovered iron sulfide, scale, & rubber. Circulate clean. RIH /h 5 1/2" full bore packer to 2940'. Circ'd w/ 70 bbls 2% KCl water plus packer fluid. Set packer w/ 20 points & test backside to 500 psig - held. Pulled pressure chart for OCD. Prior rate & pressure: 183 BWPD @ 500 psig. After rate & pressure: 126 BWPD at 0 psig. Maximum allowable pressure - 600 psig.				
08-Dec-04 Prior rate & press: 94 BWPD @ 80 psig. RIH w/ 1 1/4" Perf-Clean Tool on 1 1/4" CT. Washed out perfs w/ 2% KCl (surfactant water). Acidized perfs w/ 4,200 gals 15% NEFE acid. Flushed w/ 10 bbls. After rate & Press: 185 bwpd @ 0#.				
08-Nov-05 RIH with 1 1/4" x 5' sinker bar and tagged at 3,010'.				
09-May-08 Bled down f/400 psi to 0 psi. POOH w/2 3/8" IPC tbg & 5 1/2" AD-1 PKR. RIH w/2 3/8" Notch Collar. Tagged fill @ 3124'. Cleaned out to 3642'. RIH with 2 3/8" IPC tbg with 5 1/2" AD-1 PKR. Circulated with PKR fluid, pull Press Chart for OCD.				
18-Jun-08 Foam CO2 Acid Treat Queen (3566'-3628') & 7-R (3260'-3490') w/3000 gals 15% NEFE HCl dropping 3000# RS. AIR= 5 bpm. Pavg= 1450 psig. Prior Rate/Press: 420 bpm @ 350#. After Rate/Press: 400 bpm @ 140 psig.				
19-Jun-12 Injection Profile shows: fill at 3,484', 44% into 7-Rivers, and 40% into Yates 2. Rate 735 BPD @ 650 psig.				
<p><b>Surface Csg</b></p> <p>Hole Size: 11 in</p> <p>Csg. Size: 8 5/8 in</p> <p>Set @: 300 ft</p> <p>Sxs Cmt: 75</p> <p>Circ: No</p> <p>TOC @: 35 ft f/ surf</p> <p>TOC by: calc</p>		<p>TOC @ 200'</p> <p>By Calc.</p> <p>DV Tool @ 1269'</p> <p>TOC @ 1980'</p> <p>By Calc.</p> <p>Jalmat</p> <p>Y @ 3001'</p> <p>3008'-26'</p> <p>3027'-36'</p> <p>3046'-60'</p> <p>3079'-83'</p> <p>3085'-95'</p> <p>3112'-18'</p> <p>3126'-31'</p> <p>3143'-50'</p> <p>3193'-3202'</p> <p>3207'-16'</p> <p>3260'-68'</p> <p>7-R @ 3216'</p> <p>Fill @ 3010'</p> <p>Langlie Mattix</p> <p>3394'-96'</p> <p>3404'-06'</p> <p>3414'-16'</p> <p>3428'-38'</p> <p>3458'-72'</p> <p>3482'-90'</p> <p>Fill @ 3484'</p> <p>Q @ 3562'</p> <p>3566'-70'</p> <p>3607'-10'</p> <p>3625'-28'</p>		
<p><b>Production Liner</b></p> <p>Hole Size: 6 in</p> <p>Csg. Size: 4 in</p> <p>Top: 2980 ft</p> <p>Btm: 3642 ft</p> <p>Sxs Cmt: 50</p> <p>Circ: Yes</p> <p>TOC @: TOL</p> <p>TOC by: circ</p>		<p>pkrr @ 2924'</p>		
<p><b>Production Csg</b></p> <p>Hole Size: 7 7/8 in</p> <p>Csg. Size: 5 1/2 in</p> <p>Set @: 3034 ft</p> <p>Sxs Cmt: 200</p> <p>Circ: No</p> <p>TOC @: 1980 f/ surf.</p> <p>TOC by: calc.</p> <p>PBTD: 3575 ft</p> <p>TD: 3642 ft</p>		<p>OH ID 4 3/4 in</p> <p>(Original) OH Interval</p> <p>3433 - 3591'</p>		
top Anhydrite 1175'				
PREPARED BY:		Lary S. Adams Domingo Carrizales		
UPDATED:		22-Jun-12		