

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

HOBBS OCO
MAR 10 2014
RECEIVED

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

WELL API NO. 30-025-09631
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No. 306443
7. Lease Name or Unit Agreement Name COOPER JAL UNIT
8. Well Number 120
9. OGRID Number 240974
10. Pool name or Wildcat Jalmat; T-Y-7R; Langlie Mattix; 7R-Q-G

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 <u>INJECTOR</u>	
2. Name of Operator LEGACY RESERVES OPERATING LP	
3. Address of Operator PO 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>1980</u> feet from the <u>WEST</u> line Section <u>24</u> Township <u>24S</u> Range <u>36E</u> NMPM County <u>LEA</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3315' GL	

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 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: CLEAN OUT & DEEPEN <input checked="" 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 ALONG WITH CURRENT AND PROPOSED WELLBORE DIAGRAMS---

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 Laura Pina TITLE REGULATORY TECH DATE 03/06/2014

Type or print name LAURA PINA E-mail address: lpina@legacylp.com PHONE: 432-689-5200

For State Use Only

APPROVED BY: Malay Brown TITLE Compliance Officer DATE 3/12/2014

CONDITION OF APPROVAL: Operator shall give the OCO District Office 24 hour notice before running the MIT test and chart.

R-4020 MAR 13 2014

PROCEDURE TO CLEAN OUT AND DEEPEN

Cooper Jal Unit #120 WIW

API: 30-025-09631

Lea County, New Mexico

02/25/2014

AFE #: 214017

WELL SUMMARY & OBJECTIVE:

The subject well is an active water injector in the Cooper Jal Unit. The well was last cleaned out to 3,572' in April 2011. This AFE will provide funds to clean out to 3,604 ft. (current TD) and deepen the well to 3,780' (through the Queen Formation). Upon deepening, the well will be acid stimulated and once a Mechanical Integrity Test is achieved, the well will be returned to Water Injection.

PROCEDURE

1. Test anchors prior to moving in Pulling Unit.
2. Hold pre job safety meeting and MIRU PU.
3. Kill well if necessary. ND tree & NU BOP.
4. Unset pkr & POOH with tbg.
5. PU shoe, drill collars and 2-3/8" WS.
6. RIH to top of fill and circulate hole.
7. Clean out to top of junk (possibly part of pkr) left in well during workover in 1994.
8. Mill over junk with shoe until shoe plugs off. TOH and check for recovery. May need to run shoe again. If not, go to step 9.
9. PU 3-1/8" bit and drill collars. TIH with WS and drill new hole to 3,780'.
10. At new TD of 3,780', circulate hole clean. POOH and spot 200 gals of 15% HCL acid from 3780' to 3400' to cover new open hole and perms from 3408-3516.
11. PU 4" treating pkr on WS. RIH and set pkr at +/- 2,950'.
12. MIRU service company and acidize down tubing with 10,000 gals of 15% HCL acid and 10,000 lbs of rock salt. Pump acid and rock salt at 5 to 10 BPM with a max surface treating pressure of 4500 psig. Pump acid stages alternating acid and rock salt in brine water.
 - a. Pump 1000 gals acid
 - b. Pump 700#'s rock salt in brine water
 - c. Pump 1500 gals acid
 - d. Pump rock salt stage and increase or decrease rock salt based on pressure response of previous diversion stage.
 - e. Pump 2000 gals acid

- f. Pump rock salt stage. Choose rock salt volume based on pressure response
 - g. Pump 2500 gals acid
 - h. Pump rock salt stage. Choose rock salt volume based on pressure response
 - i. Pump 3000 gals acid
 - j. Displace acid to top perf with 2%KCL water
-
- 13. Obtain 5, 10, & 15 minute SIP's and flow back load if well has surface pressure. RDMO acid company.
 - 14. If no flow back, RU swab and swab back load.
 - 15. Unset pkr. POOH and LD pkr.
 - 16. RIH w/ WS with notch collar and clean out rock salt to 3,780'.
 - 17. POOH & PU Injection Packer. Hydrotest in the hole to +/- 2,937' (shallowest depth packer can be set is within 100' of top perf at 3,011').
 - 18. Circulate packer fluid around backside and set packer.
 - 19. ND BOP & NU tree.
 - 20. Test packer to 500 psi for 30 minutes, to ensure it will pass MIT.
 - 21. RDMO PU
 - 22. Perform MIT. Upon approval from NMOCD, return well to injection.

PREPARED BY: _____ DATE: _____

APPROVED BY: _____ DATE: _____

	Location:
Footage:	660 FNL & 1980 FEL
Section:	Sec. 24, T-24S, R-36E
Block:	
Survey:	
County:	Lea, New Mexico
Lat:	
Long:	
	Elevations:
GL:	3,315'
KB:	3,326'
KB Calc:	11'
ck w/log?	Yes

Date	History
11-Nov-51	Hydrafrac OH 3000' - 3195' w/ 1500 gal Kerosene & 800# Ottawa Sand.
13-Dec-54	Deepen to 3804' & ran 4" FJ Liner. Perf 3500' - 3516' & frac w/ 500 gal mud acid & 6000 gal lse oil + 6000# sand.
7-Oct-71	Selectively perforate 3101' - 3270' & 3408' - 3492'. Acidize perms w/ 5628 gal 20% acid in 3 stages w/ BS. Dual Inject w/ pkr at 3314' & pkr at 2820'.
14-Oct-88	Dual injection equipment plugged up. Well St.
23-May-94	Fish dual pkr - junk possibly left in hole. CO to 3574' & add perms at 3,156' - 3,176'. RWTL.
14-Feb-02	Tag fill at 3046' w/ sinker bar.
11-Aug-04	CO to 3575' - had iron carbonate scale in returns.
3-Dec-04	CO w/ CT to 3574' & acidize w/ 4200 gals 15% in 3 stages.
7-Nov-05	Tag fill at 3558' w/ sinker bar while running BHP survey.
1-May-08	CO to 3578'.
10-Jul-08	Acidize w/ 3080 gals 15% NEFEE HCl & 35 Tons CO2.
29-Apr-11	CO to 3572' & acidize w/ 17000 gals 90/10 & 14000# RS.

[illegible][illegible]

CJU #120

Wellbore Diagram

Reservoir: Cooper Jal

Well ID Info:	CJU #120
API No:	30-025-09631
Spud Date:	10/23/1951

Hole Size:	10-3/4"
Conductor:	8-5/8" - 29.75#
Set @	315'
Cement w/	150 sx Neat Cmt
Circ:	Yes (20 sx)
TOC:	Surface

TOC: 294' (By sinker bar)

TOL @ 2,854'

PKR at 2,937"

Hole Size:	7-7/8"
Prod. Csg:	5-1/2" - 15.5# & 17#
Set @	3000'
Lead Cement:	550 sx Portland + 10% Gel
Tail Cement:	100 sx Neat Cement

Yales @ 3007'

Perf 3,030' - 3,036' - 10/7/1971

Perf 3.054' - 3.078' - 10/7/1971

Perf 3,092' - 3,100' - 10/7/1971

Perf 3,112' - 3,120' - 10/7/1971

Perf 3,146' - 3,154' - 10/7/1971

Perf 3,156' - 3,176' - 5/23/1994

Perf 3,196' - 3,204' - 10/7/1971

7-R @ 3216'

Perf 3,212' - 3,218' - 10/7/1971

Perf 3,262' - 3,270' - 10/7/1971

Perf 3.408' - 3.412' - 10/7/1971

Perf 3,418' - 3,424' - 10/7/1971

Perf 3,433' - 3,435' - 10/7/1971

Perf 3,450' - 3,460' - 10/7/1971

Perf 3,482' - 3,492' - 10/7/1971

Perf 3,500' - 3,516' - 12/13/1954

Queen @ 3572'

Hole Size:	4-3/4"
Prod. Liner:	4", 9.5# FJ
TOL:	2854'
Liner Set at:	3604'
Cement:	45 sx Neat Cement
TOC:	TOL

PBTD	3572'
TD	<u>3604'</u>

Field: **Cooper Jal Unit**

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Block:	
Survey:	
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KB:	3,326'
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ck w/log?	Yes

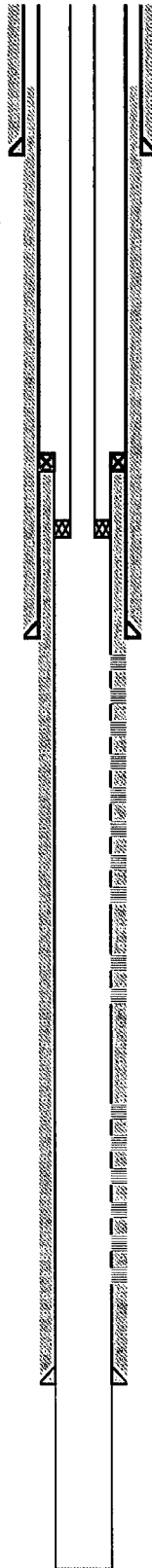
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Tubing Detail (top to bottom)			
Joints	Description	Footage	Depth
	KB	11	11
3	2-3/8" 4.7#, IPC, J-55, 8rd subs (8', 4', 2').	14	25
95	2-3/8" 4.7#, IPC, J-55, 8rd tbq.	2,909	2,934
1	4" x 2 3/8" Baker Model AD-1 packer	3	2,937

Rod Detail (top to bottom)			
Rods	Description	Footage	Depth

Pumping Unit:
Updated: 02/25/14 MLS**CJU #120
PROPOSED**

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