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

HOBBS OCD
MAR 10 2014
RECEIVED

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-103
Revised July 18, 2013

WELL API NO. 30-025-09646

5. Indicate Type of Lease STATE ☐ FEE ☒

6. State Oil & Gas Lease No. 306443

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.)

7. Lease Name or Unit Agreement Name: COOPER JAL UNIT

1. Type of Well: Oil Well ☐ Gas Well ☐ Other INJECTOR

8. Well Number 224

2. Name of Operator: LEGACY RESERVES OPERATING LP

9. OGRID Number: 240974

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

10. Pool name or Wildcat: JALMAT; TANSILL-YATES-7RIVERS

4. Well Location
Unit Letter C : 330 feet from the NORTH line and 2310 feet from the WEST line
Section 25 Township 24S Range 36E NMPM County LEA

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 3309' KB

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☒						
OTHER: CLEAN OUT & DEEPEN			☒	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 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: Maley Brown TITLE Compliance Officer DATE 3/12/2014

Conditions of Approval (if any):

R-4020

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

MAR 13 2014

PROCEDURE TO CLEAN OUT AND DEEPEN
Cooper Jal Unit #224 WIW
API: 30-025-09646
Lea County, New Mexico
2/25/2014
AFE #: 214027

WELL SUMMARY & OBJECTIVE:

The subject well is an active water injector in the Cooper Jal Unit. A clean-out and acidizing run in Jan, 2011 left the well TD at 3,230 ft. This AFE will provide funds to clean out and then 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 w/ tbg in well.
5. PU 4-3/4" bit, drill collars and 2-7/8" WS.
6. RIH to PBTD (previously cleaned-out to 3,230' on Jan 18, 2011).
7. Circulate hole and clean out well to 3,230' (current TD) if necessary.
8. Drill new hole from 3,230' to 3,780'.
9. At new TD of 3,780', circulate hole clean and POOH.
10. PU treating pkr on WS. RIH and set pkr at +/- 2,870'.
11. MIRU Acid 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

12. Obtain 5, 10, & 15 minute SIP's and flow back load if well has surface pressure. RDMO acid company.
13. If no flow back, RU swab and swab back load.
14. Unset pkr. POOH and LD pkr.
15. RIH w/ WS with notch collar and clean out rock salt to 3,780'.
16. POOH & PU Injection Packer. Hydrotest in the hole to +/- 2,870' (shallowest depth packer can be set is within 100' of open hole).
17. Circulate packer fluid around backside and set packer.
18. ND BOP & NU tree.
19. Test packer to 500 psi for 30 minutes, to ensure it will pass MIT.
20. RDMO PU.
21. Perform MIT. Upon approval from NMOCD, return well to injection.

PREPARED BY:_____ DATE:_____

APPROVED BY:_____ DATE:_____

Field: **Cooper Jal Unit**

CJU #224

	Location:
Footage:	330 FNL & 2310 FWL
Section:	Sec. 25, T-24S, R-36E
Block:	
Survey:	
County:	Lea, New Mexico
Lat:	
Long:	
	Elevations:
GL:	3,297'
KB:	3,309'
KB Calc:	12'
ck w/log?	No

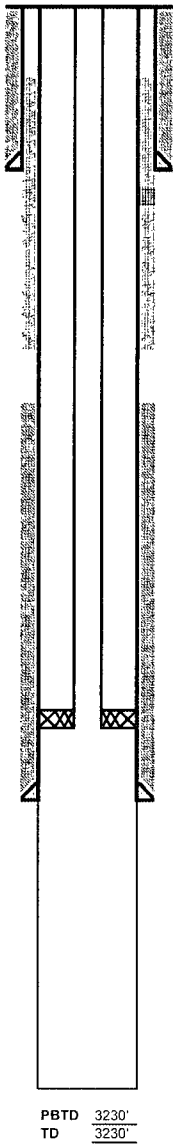
Date	History
2-Jun-50	Initial completion 2970 - 3230' (Yates/ 7 RVRS OH): No stimulation. IP=52
	bopd, 0 bwpd, & 0 Mcfgpd. (flowing)
16-Jun-71	CONVERTED WELL TO INJECTOR.
14-May-89	Found casing leak at 350'-418'. Squeezed with 150 sxs Class H neat cement.
	Pmax=1035 psig, AIR=2 bpm. Second squeeze (350'-418'): 50 sxs Class C
	w/4% calcium, Pmax=750 psig. Clean out open hole with side jet. Acidized
	with 4,000 gallons 15% HCl acid. Pulled MIT - 300 psig.
9-Jul-93	C/O fill (paraffin & iron sulfied) f/3085'-3235'. Jet wash across OH twice.
	Acdz'd OH (2970'-3230') w/4,200 gals 15% NEFE HCL 200 bbls Chloride-
	dioxide, & 42 gals citric acid using 1000# mesh salt to divert. AIR=3 bpm @
	1025 psi. ISIP= 967#. Ran pkr on 2 3/8" CL tbg. Set pkr @ 2881'. Tst csg.
	Ok. Initiated injection @ 168 bwpd, TP=680 psi.
8-Dec-97	C/O fill from 3052 - 3230' (78'). Ran sonic hammer tool and acid wash OH
	(2970 - 3230') w/ 130 bbls produced water. Ran pkr and acdz'd OH w/ 3,800
	gals 15 % NEFE HCL in 3 stages using 1000#'s rock salt between each
	stage. AIR=4 bpm @ 1232 psig. Ran pkr on 2 3/8" CL tbg. Set pkr @ 2896'.
	Tst csg. Ok. Initiated injection @ 400 bwpd.
14-Feb-02	Tag TD using SL unit (1 1/4" x 5' sinker bar). Tag fill @ 3043' (187' of fill).
30-Aug-04	POOH with 2 3/8" IPC tubing and 5 1/2" x 2 3/8" Baker. RIH with 4 3/4" bit ,
	6 -3 1/2" drill collars on 2 7/8" work string. C/O to 3230'. Laid down BHA. RIH
	with 5 1/2" x 2 7/8" Full Bore Pkr to 2883'. Set packer and test backside to
	500 psig. Lost 80 psig in 2 minutes. Dropped standing valve, test tubing to
	500# - lost 100# in 5 minutes. POOH with Full Bore PKR. RIH w/ 5 1/2" x 2
	3/8" Baker Model AD-1 packer on 2 3/8" IPC tubing to 610'. Test casing leak
	to 450# - lost 70# in 30 minutes. Move and set PKR two more time - lost
	pressure each time. Hydrotest 2 3/8" IPC tubing to 6000# except the top 20
	joints due scale built up. Set packer at 2892' - test annulus to 400# - lost 30#
	in 30 minutes.
7-Sep-04	Ran MIT at 420# for 30 min - held. Pulled press chart for NMOCD. Placed
	well on injection: 300 BWPD at 600 psig.
7-Dec-04	Prior rate & press: 330 bwpd @ 1000#. RIH w/1 1/4" Perf-Clean Tool on
	1-1/4" coiled tubing. Wasched OH f/2900' to 3021'. CTP=4000#, Annulus.
	Acidized f/2970'-3098', could not get below 3098'. After rate & press: 200
	bwpd @ 600#
8-Nov-05	RIH with 1 1/4" x 5' sinker bar and tagged at 3,078'.
11-Mar-08	POOH w/ 2 3/8" IPC tbg & 5 1/2" x 2 3/8" Baker. RIH w/4 3/4" bit , 6 -3 1/2"
	drill collars on 2 7/8" work string. Tagged fill at 3053', cleaned out to 3,230'.
	RIH with 5 1/2" AD-1 PKR on 2 3/8" cement lined tubing. Set PKR at 2,856'.
	H5 test.
22-May-08	Acidized Jalmat w/72 bbls 15% NEFE HCl acid, divert w/3000# rock salt.
	Rate = 4.5 bpm @ 1363 psi. ISIP = 1040 psi. Before Rate & Press: 254 bpd
	@ 931 psi. After Rate & Press: 270 bpm @ 580 psi.
16-Jun-09	POOH & laid dn 2 3/8" CL tbg & AD-1 PKR. RIH w/4 3/4" bit on 2 3/8" IPC,
	tagged @ 3030'. RIH w/5 1/2" AD-1 PKR 2 3/8" IPC tbg. Set PKR @ 2839'.
	Pull press chart for OCD. Prior 320 BWPD @ 1100#; after 340 BWPD @
	1000#.
18-Jan-11	POOH with 2 3/8" IPC tubing and 5 1/2" x 2 3/8" Baker. RIH with 4 3/4" bit ,
	6 -3 1/2" drill collars on 2 7/8" work string. C/O from 3,075' to 3,230'. Circ'd
	iron sulfite and scale. Hydrotest work string to 7,000 psig, set Loc-Set PKR
	at 2,840'. Acidized with 170 bbls 20% NEFE (90/10, acid/Xylene). Diverted
	with 13,750# RS. PKR failed. Ran new PKR. Acidized with 170 bbls aicd.
	AIR= 6 bpm. Pmax= 2,140 psig. Pavg= 1,650 psig. ISIP= 1,350 psig.
	Hydrotest injection string to 5,000 psig. MIT to 400 psig. Pull chart for OCD.
	Prior rate & press: 310 bwpd @ 1145#. After rate & press: 458 bwpd @ 920#.

Joints	Tubing Detail (top to bottom) Description	Footage	Depth
90	2-3/8" 4.7#, IPC, J-55, 8rd EUE tbg	2,835	2,835
1	2-3/8" x 5-1/2" Baker PC, AD-1 Packer	3	2,838

Rods	Rod Detail (top to bottom) Description	Footage	Depth

Pumping Unit:
Updated: 01/20/14 MLS

Wellbore Diagram



PBTD 3230'
TD 3230'

Reservoir: Cooper Jal

Well ID Info:	CJU #224
API No:	30-025-09646
Init. Comp. Date:	6/2/1950

Hole Size: 11"
Surface Csg: 8-5/8", 28#, J-55
Set @ 292'
Cement w/ 100 sx
Circ: Yes
TOC: Surface

Leak 350'-418' - squeezed 200 sxs
Hole Size: 7-7/8"
Prod. Csg: 5-1/2", 14#, J-55
Set at: 2970'
Cement: 200 sx
Circ: No
TOC: 1920' from surface by calc.
DV tool @ 1225' - pmp 200 sxs - TOC @ 140' f/surf by calc.

DV Tool @ 1225'
Sqzd w/150 sxs 2nd sqz w/50 sxs

TOC @ 1920' by calc.

pkr @ 2839'

OH Interval: 2970'-3230'
OH ID: 4-3/4"
Yates @ 3010'

7-R @ 3222'

Queen @ 3650'

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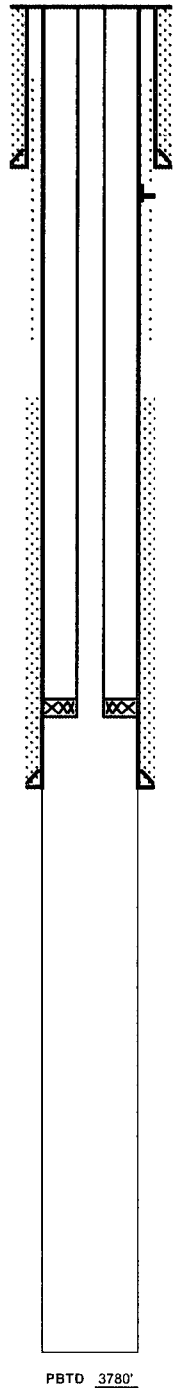
	Rod Detail (top to bottom)		
Rods	Description	Footage	Depth

Updated: 02/25/14 MLS

CJU #224
PROPOSED

Wellbore Diagram



PBTD 3780'
TD 3780'

Reservoir: Cooper Jal

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Hole Size: 7-7/8"
Prod. Csg: 5-1/2", 14#, J-55
Set at: 2970'
Cement: 200 sx
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TOC: 1920' from surface by calc.
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Sqzd w/150 sxs 2nd sqz w/50 sxs

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OH Interval: 2970'-3780'
OH ID: 4-3/4"
Yates @ 3010'

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Queen @ 3650'