Submit I Copy To Appropriate District Office	State of New Mexico	Form C-103
District I = (575) 393-6161	Energy, Minerals and Natural Resource	es Revised July 18, 2013 WELL API NO.
1625 N. French Dr., Hobbs, NM 88240 HOBBS C <u>District II</u> – (575) 748-1283		20.025.00561
	OIL CONSERVATION DIVISION 2014 1220 South St. Francis Dr.	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	STATE FEE 6. State Oil & Gas Lease No.
District IV – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505	,	312454 Gas Lease No.
SUNDRY NOTICES A	AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLICATION PROPOSALS.)	O DRILL OR TO DEEPEN OR PLUG BACK TO A N FOR PERMIT" (FORM C TOT) FOR SUCH	COOPER JAL UNIT
1. Type of Well: Oil Well Gas W	Vell Other INJECTOR	8. Well Number 234
2. Name of Operator	TES OPEN ATRICAL P	9. OGRID Number
3. Address of Operator	ES OPERATING LP	240974  10. Pool name or Wildcat
_	DLAND, TX 79702	JALMAT; TANSILL-YATES-7RIVERS
4. Well Location		
Unit Letter O : 330	<del>_</del>	d <u>1650</u> feet from the <u>EAST</u> line
Section <u>13</u>	Township 24S Range 3	
	Elevation (Show whether DR, RKB, RT, GA 3315' GL	K, etc.)
	·	
12. Check Appro	priate Box to Indicate Nature of No	tice, Report or Other Data
NOTICE OF INTEN	TION TO:	SUBSEQUENT REPORT OF:
<del></del>	IG AND ABANDON ☐ REMEDIAL	<del>_</del>
<del></del> -		E DRILLING OPNS. P AND A
PULL OR ALTER CASING MULDOWNHOLE COMMINGLE	TIPLE COMPL CASING/CE	EMENT JOB
CLOSED-LOOP SYSTEM		
OTHER: DEEPEN & RUN LINER	OTHER:	
		ils, and give pertinent dates, including estimated date le Completions: Attach wellbore diagram of
proposed completion or recomple		
		`
SEE ATTACHED PROCEDUR	E ALONG WITH CURRENT AND PROP	POSED WELLBORE DIAGRAMS
		4
		- Total Control Contro
Spud Date:	Rig Release Date:	MAR
I hereby certify that the information above	is true and complete to the best of my know	wledge and belief.
SIGNATURE XIMA WA	TITLEREGULATO	RY TECH DATE 03/06/2014
Type or print name <u>LAURA PINA</u>	E-mail address: <u>lpina@legac</u>	<u>eylp.com</u> PHONE: 432-689-5200
For State Use Only	/ A .	011 ' -1 /
APPROVED BY:	DUM STITLE (DMD) AM	12/7014
Conditions of Approval (if any)	THEE CONTRACTOR	DAIL SI-JUI
··· · · · · · · · · · · · · · · · · ·	CONDITION OF District Office 2	APPROVAL: Operator shall give the OCD 4 hour notice before running the MIT test and chart.
	Lisaici Oince 2	- Troughouse running the min test and chart.

# PROCEDURE TO WORKOVER

Cooper Jal Unit #234 WIW API: 30-025-09561 Lea County, New Mexico 2/25/2014 AFE#: 214020

## **WELL SUMMARY & OBJECTIVE:**

The subject well was an active water injector in the Cooper Jal Unit, until a hole in the casing was discovered in November 2013. The hole was isolated and found to be from 414 ft. to 429 ft. After an unsuccessful attempt to establish injection, 4 holes were perforated at 440 ft. and the well was squeezed with cement. Once the cement was drilled out inside the casing, a 500 psi pressure test resulted in the squeeze breaking down and fluid coming around the wellhead.

This AFE will provide funds to deepen the well through the Queen and acid stimulate the open hole. A 4" Flush Joint Liner will then be ran and cemented. 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 & POOH w/ tbg in well.
- 4. PU 4-3/4" bit, drill collars and 2-7/8" WS.
- 5. RIH & tag top of cement at +/- 2905' (above CIBP @ 2940'). Circulate hole.
- 6. Drill out cement and CIBP. Push to PBTD of 3,228'.
- **7.** Drill new hole from 3,228' to 3,780'.
- 8. At new TD of 3,780', circulate hole clean and POOH.
- 9. PU treating pkr on WS. RIH and set pkr at +/- 2,900'.
- **10.** 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
- **11.** Obtain 5, 10, & 15 minute SIP's and flow back load if well has surface pressure. RDMO acid company.
- 12. If no flow back, RU swab and swab back load.
- 13. Unset pkr. POOH and LD pkr.
- 14. RIH w/ WS with notch collar and clean out rock salt to 3,780'.
- 15. POOH and PU CIBP.
- **16.** RIH, set CIBP at +/- 2,970' and POOH.
- 17. MIRU csg crew and run 4" Flushed Joint Liner. Tag CIBP & PU 1'.
- **18.** RDMO csg crew and MIRU cementers. Cement liner, circulating cement to surface per cement proposal.
- **19.** ND BOP, cut csg and install wellhead. NU BOP onto new wellhead. WO cement 24 hrs.
- 20. PU 3-1/8" bit & RIH. Drill out Float Equipment & CIBP. Continue in hole to 3,780'.
- 21. POOH & LD bit and WS.
- 22. PU 4" x 2-3/8" Injection Packer and hydrotest in the hole to +/- 2,900' (shallowest depth packer can be set is within 100' of open hole 2,985').
- 23. Circulate packer fluid around backside and test packer.
- 24. ND BOP & NU tree.
- 25. Test packer to 500 psi for 30 minutes, to ensure it will pass MIT.
- 26. RDMO PU.
- 27. Perform MIT. Upon approval from NMOCD, return well to injection.

PREPARED BY:	DATE:
APPROVED BY:	DATE:

	Location:
Footage:	330 FSL & 1650 FEL
Section:	13, T-24S, R-36E
Block:	
Survey:	
County:	Lea, New Mexico
Lat:	
Long:	
	Elevations:
GL:	3,315'
KB:	3,325'
KB Calc:	10'
ck w/log?	n/a

Date	History
6-Jun-50	Initial completion interval: (Yates/7 RVRS OH) 2,985 - 3,228': No
	stimulation. IP = 48 bopd, 0 bwopd, & 54 Mcfgpd (flowing)
1-Jun-65	TA'd well.
1-Aug-71	Convert to injector. C/O to 3150' (hole continued to cave in and bridge).
1-Sep-81	Ran injection profile. Fill tagged at 3101'. Did not C/O fill.
4-Feb-02	RIH with 1 1/4" x 5' sinker bar and tagged at 2,980'.
2-May-02	RIH w/ CT & tag at 2985'. CO to 2989' - could not CO deeper.
9-Nov-05	RIH with 1 1/4" x 5' sinker bar and tagged at 2,973'.
25-Jan-11	CO to TD w/ 4-3/4" bit - recovered oil & paraffin. Acidize w/ 10,000 gal
	15% 90/10 acid & 17,500# RS. RWTI.
14-Mar-12	Repair HIT / pkr leak.
15-Nov-13	Found Hole in csg at 414' - 429'. Perf 4 holes at 440' & cmt sqz to 500#.
	Tag cmt at 20' & DO. Broke out of cmt at 448'. Test to 500 psi and broke
	back with fluid coming around wellhead.
	1

	Tubing Detail (top to bottom)		
Joints	Description	Footage	Depth
92	2-3/8" 4.7#, IPC, J-55, 8rd EUE	2,890	2,890

	Rod Detail (top to bottom)		
Rods	Description	Footage	Depth
		1	

Pumping Unit	:	
	40/0/40	

	Reservoir:	Cooper Jal
	Well ID Info:	CJU #234
Wellbore Diagram	API No:	30-025-09561
	Spud Date:	6/6/1950
	Hole Size:	11"
	Surf. Csg:	8 5/8" - 28#, J-55
	Sat @	304'

Hole Size:	11"
Surf. Csg:	8 5/8" - 28#, J-55
Set @	304'
Cement w/	125 sxs
Circ:	Yes
TOC:	Surface

TOC:	85' (Calc)

Found Hole in Csg f/ 414' - 429' - 11/15/2013

DV Tool at 1161' (Cement w/ 200 sx)

TOC: 1930' (Calc)

Open Ended Tbg at 2,890'

CIBP at 2940' w/ cmt to 2905'

Yales @ 2988

Hole Size: 7 7/8"

Prod. Csg: 5 1/2" - 14#, J-55

Set @ 2985'

Cement: 200 sxs

DV Tool: 200 sxs

7-R @ 3212'

PBTD 3228' TD 3228'

Queen @ 3585'

#### Field:

### Cooper Jal Unit

	Location:	
Footage:	330 FSL & 1650 FEL	
Section:	13, T-24S, R-36E	
Block:		
Survey:		
County:	Lea, New Mexico	
Lat:		
Long:		
	Elevations:	
GL:	3,315'	
KB:	3,325'	
KB Calc:	10'	
ck w/log?	n/a	

Date	History
6-Jun-50	Initial completion interval: (Yates/7 RVRS OH) 2,985 - 3,228': No
	stimulation. IP = 48 bopd, 0 bwopd, & 54 Mcfgpd (flowing)
1-Jun-65	TA'd well.
1-Aug-71	Convert to injector. C/O to 3150' (hole continued to cave in and bridge).
1-Sep-81	Ran injection profile. Fill tagged at 3101'. Did not C/O fill.
4-Feb-02	RIH with 1 1/4" x 5' sinker bar and tagged at 2,980'.
2-May-02	RIH w/ CT & tag at 2985', CO to 2989' - could not CO deeper.
9-Nov-05	RIH with 1 1/4" x 5' sinker bar and tagged at 2,973'.
25-Jan-11	CO to TD w/ 4-3/4" bit - recovered oil & paraffin. Acidize w/ 10,000 gal
	15% 90/10 acid & 17,500# RS. RWTI.
14-Mar-12	Repair HIT / pkr leak.
15-Nov-13	Found Hole in csg at 414' - 429'. Perf 4 holes at 440' & cmt sqz to 500#.
	Tag cmt at 20' & DO. Broke out of cmt at 448'. Test to 500 psi and broke
	back with fluid coming around wellhead.
	2.2.00
*	<u> </u>
	-
	<del>-</del>
· · ·	
	<del></del>
	· · · · · · · · · · · · · · · · · · ·

	Tubing Detail (top to bottom)		
Joints	Description	Footage	Depth
92	2-3/8" 4.7#, IPC, J-55, 8rd EUE	2,890	2,890
	2-3/8" x 4", coated AS-1X Pkr	10	2,900
	i	1	

	Rod Detail (top to bottom)  Description		
Rods	Description	Footage	Depth

Pumping Unit: Updated: 2/25/14 MLS

## CJU #234

## **PROPOSED**

Wellbore Diagram

Reservoir:	Cooper Jal
Well ID Info:	CJU #234
API No:	30-025-09561
Spud Date:	6/6/1950
Hole Size: Surf. Csg: Set @ Cement w/	11" 8 5/8" - 28#, J-55 304' 125 sxs
Circ: TOC:	Yes Surface

Found Hole in Csg f/ 414' - 429' - 11/15/2013

85' (Calc)

DV Tool at 1161' (Cement w/ 200 sx)

TOC:

TOC:

1930' (Calc)

Hole Size: Prod. Csg: Set @ Cement Lead:

5.012" 4" - 9.5#, J-55 FJ Liner 2969'

Tail: 2-3/8" tbg w/ pkr set at 2,900'

Yates @ 2988'

Hole Size: Prod. Csg: 7 7/8" 5 1/2" - 14#, J-55 2985'

Set @ Cement Lead: Lead: 200 sxs DV Tool: 200 sxs

7-R @ 3212'

Queen @ 3585'

PBTD 3780' TD 3780'