

RECEIVED

JAN 05 2011

HOBBSOCD

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO. 30-025-09646
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 224
9. OGRID Number 263848
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 ☐ Gas Well ☐ Other ☐ Injector ☒2. Name of Operator  
Resaca Operating Company3. Address of Operator  
2509 Maurice Road, Odessa, TX 797634. 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 Lea County11. 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:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
 DOWNHOLE COMMINGLE ☐

OTHER: Clean Out & Acidize Injector ☒

## SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
 COMMENCE DRILLING OPNS. ☐ P AND A ☐  
 CASING/CEMENT JOB ☐

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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

- 1.) MIRU Pulling Unit
- 2.) POOH w/ 2 3/8" IPC tubing and 5 1/2" x 2 3/8" Baker AD-1 Packer.
- 3.) RIH w/ 4 3/4" Bit & 6- 3 1/2" Drill Collars on 2 7/8" work string.
- 4.) Clean out well to 3230'.
- 5.) Acidize OH with approximately 10,000 gallons 90/10 Mixture of NEFE 15% Acid/ Xylene.
- 6.) POOH w/ 2 7/8" work string.
- 7.) RIH w/ 5 1/2" x 2 3/8" Baker AD-1 Packer; circulate annulus with inhibited packer fluid
- 8.) Set Packer within 100' of top of OH @ 2970'; test annulus to 500 psig for 30 minutes; Pull chart for NMOCD.
- 9.) Place well on Injection at approximately 300 bwpd; Maximum

10.) RDMO Pulling Unit

Condition of Approval: Notify OCD Hobbs office 24 hours prior of running MIT Test &amp; Chart

Per Underground Injection Control Program Manual

Spu 11.6 C Packer shall be set within or less than 100 feet of the uppermost injection perfs or open hole.

Use Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

TITLE

Engineer Assistant

DATE

12/29/10

Type or print name

Melanie Reyes

E-mail address:

melanie.reyes@resacaexploitation.com

PHONE: (432)580-8500

For State Use Only

APPROVED BY:

TITLE

Staff member

DATE

1-6-2011

Conditions of Approval (if any):

## WELLBORE SCHEMATIC AND HISTORY

## CURRENT COMPLETION SCHEMATIC

LEASE NAME

Cooper Jal Unit

WELL NO.

224 WIW

STATUS:

Active

Water Injector

API#

30-025-09646

LOCATION:

330 FNL &amp; 2310 FWL, Sec 25, T - 24S, R - 36E, Lee County, New Mexico

SPUD DATE:

TD

3230

KB

3,309'

DF

INT. COMP. DATE:

06/02/50

PBTD

GL

## ELECTRIC LOGS:

## GEOLOGICAL DATA

## CORES, DSTS or MUD LOGS:

## HYDROCARBON BEARING ZONE DEPTH TOPS:

Yates @ 3010'

7-Rivers @ 3222'

Queen @ 3650'

## CASING PROFILE

SURF.

8 5/8" - 28#, J-55 set @ 292' Cmt'd w/100 sxs - circ cmt to surf.

PROD.

5 1/2"-14#, J-55 set @ 2970' Cmt'd w/200 sxs - TOC @ 1920' f/surf by calc. DV tool @ 1225' - pmp 200 sxs -

LINER

None

5 1/2" - TOC @ 140' f/surf by calc.

## CURRENT PERFORATION DATA

CSG. PERFS:

OPEN HOLE:

2970 - 3230'

## TUBING DETAIL

6/17/2009

## ROD DETAIL

## Length (ft)

## Detail

12

KB (as used in 10-17-88 workover)

2825

90

2 3/8" 4.7#, CL, J-55, IPC 8rd EUE tbg.

3

1

5 1/2" x 2 3/8" Baker PC, AD-1 packer

2840

## WELL HISTORY SUMMARY

- 02-Jun-50 Initial completion 2970 - 3230' (Yates / 7 RVRS OH): No stimulation. IP=52 bopd, 0 bwpd, & 0 Mcf/gpd. (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.
- 09-Jul-93 C/O fill (paraffin & iron sulfide) f/3085'-3235'. Jet wash across OH twice. Acid'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 @ 163 bwpd, TP=680 psi.**
- 08-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 acid'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.**
- 07-Sep-04 Ran MIT at 420# for 30 min - held. Pulled press chart for NMOCD. Placed well on injection: **300 BWPD at 600 psig.**
- 07-Dec-04 Prior rate & press: **330 bwpd @ 1000#.** RIH w/1 1/4" Perf-Clean Tool on 1 1/4" coiled tubing. Washed OH f/2900' to 3021'. CTP=4000#, Annulus. Acidized f/2970'-3098', **could not get below 3098'.** After rate & press: **200 bwpd @ 600#**
- 08-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#.**

pkr @ 2839'

Jalmat  
Yates @ 3010'  
**OH Interval**  
2970 - 3230'

Top of fill  
at 3030'  
TOF @ 3043'

7-R @ 3222'

Queen @ 3650'

## Surface Csg

Hole Size: 11 in

Csg. Size: 8 5/8 in

Set @: 292 ft

Sxs Cmt: 100

Circ: Yes

TOC @: surf

TOC by: circ

Leak 350'-418'

Sqzd w/150 sxs

2nd Sqz - 50 sxs

DV Tool @ 1225'

TOC @ 1920'

By Calc.

## Production Csg.

Hole Size: 7 7/8 in

Csg. Size: 5 1/2 in

Set @: 2970 ft

Sxs Cmt: 200

Circ: No

TOC @: 1920 f / surf.

TOC by: calc.

PBTD: 3230 ft  
TD: 3230 ft

OH IC 4 3/4 in

PREPARED BY:

Larry S. Adams

Domingo Carrizales

UPDATED:

06-Jul-09