

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87400

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED

JAN 05 2011

HOBBSUCD

CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

<p>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.)</p>		<p>WELL API NO. 30-025-09624</p>
<p>1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Injector <input checked="" type="checkbox"/></p>		<p>5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/></p>
<p>2. Name of Operator Resaca Operating Company</p>		<p>6. State Oil & Gas Lease No. 306443</p>
<p>3. Address of Operator 2509 Maurice Road, Odessa, TX 79763</p>		<p>7. Lease Name or Unit Agreement Name Cooper Jal Unit</p>
<p>4. Well Location Unit Letter <u>O</u> : <u>330</u> feet from the <u>South</u> line and <u>1650</u> feet from the <u>East</u> line Section <u>24</u> Township <u>24S</u> Range <u>36E</u> NMPM Lea County</p>		<p>8. Well Number <u>218</u></p>
<p>11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3315' GL</p>		<p>9. OGRID Number <u>263848</u></p>
<p>10. Pool name or Wildcat Jalmat; Tansill-Yates-7Rivers</p>		

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 ☐

SUBSEQUENT REPORT OF:

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

OTHER: Clean Out & Acidize Injector ☒

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 3 1/2" x 2 3/8" Arrow Set 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 3250'.
- 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/ 3 1/2" x 2 3/8" Arrow Set Packer; circulate annulus with inhibited packer fluid
- 8.) Set Packer within 100' of top of OH @ 2991'; test annulus to 500 psig for 30 minutes; Pull chart for NMOCD.
- 9.) Place well on Injection at approximately 300 bwpd; Maximum permitted injection pressure is 600 psig.
- 10.) RDMO Pulling Unit.

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

Per Underground Injection Control Program Manual
11.6 C Packer shall be set within or less than 100 feet of the uppermost injection perfs or open hole.

g Release Date:

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

SIGNATURE Melanie Reyes 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: [Signature] TITLE Staff DATE 1-6-2011
Conditions of Approval (if any):

WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC		LEASE NAME Cooper Jal Unit		WELL NO. 218 WIW
		STATUS: Active	Water Injector	API# 30-025-09624
LOCATION: 330 FSL & 1650 FEL, Sec 24, T - 24S, R - 36E; Lee County, New Mexico SPUD DATE: 08/01/49 TD 3250 KB 3,325' DF INT. COMP. DATE: 10/25/49 PBDT 3250 GL 3,315'				
Surface Csg Hole Size: 11 in Csg. Size: 8 5/8 in Set @: 247 ft Sxs Cmt: 125 Circ: Yes TOC @: surf TOC by: circ		ELECTRIC LOGS: Ejectolog Tracer (MicroCaliper) (11-11-76 Cardinal Surveys Co.) GEOLOGICAL DATA CORES, DST'S or MUD LOGS: HYDROCARBON BEARING ZONE DEPTH TOPS: Yates @ 3016' 7-Rivers @ 3235' Queen @ 3596'		
CASING PROFILE				
SURF. 8 5/8" - 28#, J-55 set@ 247' Cmt'd w/125 sxs - circ cmt to surf.				
PROD. 5 1/2" - 15.5#, J-55 set@ 2991' Cmt'd w/350 sxs - TOC @ 1145' from surface by calculation.				
LINER 3 1/2" - 9.2#, Super Max set @ 2,957'. Cmt'd w/ 140 sxs Class C - circ'd 6 bbls cmt.				
CSG. PERFS: TOC @ 1145' By Calc.		CURRENT PERFORATION DATA OPEN HOLE : 2991 - 3250'		
TUBING DETAIL		ROD DETAIL		
4/9/2008				
Length (ft)		Detail		
7 KB (as used in 12/97 workover)				
2938	92	2 3/8" IPC J-55 4.6#, Super Max tbgr.		
3	1	3 1/2" x 2 3/8" Baker PC, AD-1 packer		
2948 btm				
WELL HISTORY SUMMARY				
25-Oct-49 Initial completion 2991 - 3250' (Yates OH): No stimulation. IP=54 bopd, 0 bwpd, & 82 Mcfgpd. (flowing) 12-Jun-53 C/O fill to 3241'. Hydra-Frac OH w/1,500 gals 08-Jul-65 C/O fill from 3005 - 3248' (243'). Had salt bridge from 3005 - 3244'. 29-Apr-71 CONVERTED TO INJECTOR: C/O fill from 3221 - 3238' (17') 11-Nov-76 Ran injection profile. Tagged fill @ 3084' (166'). No C/O. 01-Dec-76 C/O fill 3084 - 3250' (66'). Jetwashed OH. Encountered tight spot in OH @ 3120' 15-Jan-86 Replaced cmt lined tubing & pkr. 14-May-88 Acdz'd OH w/1,000 gals 15% NEFE HCL in 2 equal stages using 300#'s rock salt down IPC tbgr. 02-Dec-97 C/O fill (paraffin, formation & formation sand) f/ 3083 - 3250' (167'). Acdz'd OH using sonic hammer tool w/ 5,000 gals 15% NEFE HCL. AIR=1 bpm @ 750 psi. Ran pkr on 2 3/8" tbgr. Set pkr @ 2947'. Initiated injection. 09-Jul-98 Performed csg/pkr tst per NMOCD guidelines @ 500 psi for 30 min. Test OK. 14-Feb-02 Tag TD using SL unit (1 1/4" x 5' sinker bar). Tag fill @ 3059' (191' of fill). 18-Nov-04 POOH w/ 94 - 2 3/8" IPC tbgr & 5 1/2" AD-1 pkr. RIH w/4 3/4" bit & 6 - 3 1/2" DCs. Tagged at 3,057', drilled to 3250'. Recovered formation, sand & paraffin. RIH w/Perf-Clean Tool, jet clean w/surfactant water f/ 2,991' to 3,250'. Tbg Press= 3000#, csg press= 50#. Acidize: stage I. 25 bbls 15% NEFE f/3,250' to 3,188' TP= 3000#. CP= 990#, stage II 25 bbls 15% NEFE f/3,188'-3,126' @ 2.5 BPM TP=3000#, CP=900#; stage III 25 bbls 15% NEFE f/ 3,126' to 3,061' @ 2.5 BPM. TP= 3000#, CP= 900#; Stage IV 25 bbls 15% NEFE f/3,061'-2,991' @ 2.5 bpm. TP= 3000#, CP= 950#. ISIP @ 5 min= 667#. C/O to 3,250'. POOH & laid down Perf-Clean Tool & work string. Hydrotest injection string (2 3/8" IPC) to 7,000#. Circ'd annulus w/ inhibited PKR fluid. Set AD-1 PKR at 2,893'. Performed MIT to 540# for 30 minutes. Pulled press chart for 3 minutes. Pulled press chart for NMOCD.OCD Field Rep was not present to witness the test. Prior Rate & Press: 280 bwpd @ 900 psig. After Rated & pressure: 164 bwpd @ 300 psig. 08-Nov-05 RIH with 1 1/4" x 5' sinker bar and tagged at 3,100'. 27-Mar-08 POOH w/ 94 - 2 3/8" IPC tubing & 5 1/2" AD-1 packer. RIH w/ 4 3/4" bit & 6 - 3 1/2" drill collars. Tagged at 3,067' , drilled to 3250'; next day tagged at 3250'. RIH w/ 5 1/2" AD-1 PKR on 2 3/8" Duo tbgr. Set PKR @ 2895'. Pressure annulus to 400#. Bled off 400# in 3 minutes, reset PKR at 2890' & 2860'. Press test annulus - bled off both times. RIH with RBP test casing at 2890', 2875', 2865' & 2830', would not test. Found leak under wellhead. RIH w/ 5 1/2" AD-1. Test @ 1698', 773', & 7 no test. Found hole at 756'. Set Composite Plug @ 2964'. RIH hydrotesting (7000#) 3 1/2" Shoe. Float Collar & 89 jts liner to 2,957'. Pumped 100 sxs Class C cmt. tailed w/ 14 sx Class C. Circ'd 6 bb;s cement/ Cut & welded 3 1/2" bell nipple. RIH w/ 2 3/8" bear claw bit, tagged @2932'. Drilled shoe, float collar & composite plug, tagged at 3,250'. RIH w/ 3 1/2" Arrow-Set PKR on 2 3/8" IPC tubing. Circ'd annulus w/ Pkr fluid. Set PKR @ 2,938' , test to 480#. Pulled chart for OCD. 18-Jun-08 Foam CO2 Acid treat U. 7-R (3235'-3250') & Yates (3016'-3235') zones w/ 3000 gals 15% HCl acid plus 35 Tons CO2. AIR= 8 bpd. Pavg= 3,000#. PWOI. Prior Inj Rate/Press: 230 bpd @ 920#; After Rate/Press: 365 bpd @ 860#.				
3 1/2" 9.2# Super Max Tubing Liner - 2957'- Surf Cmt'd w/ 140 sxs Class C Cmt Circ'd		pkr @ 2,938' 3 1/2" Lnr Shoe at 2,957' Yates @ 3016' OH Interval 2991 - 3250' 7-Rivers @ 3235' Queen @ 3596'		
Production Csg. Hole Size: 7 7/8 in Csg. Size: 5 1/2 in Set @: 2991 ft Sxs Cmt: 350 Circ: No TOC @: 1145 f / surf. TOC by: calc.				
PBDT: 3250 ft TD: 3250 ft OH IC 4 3/4 in				
PREPARED BY: Larry S. Adams Doming Carrizales UPDATED: 20-May-09				