

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103

June 19, 2008

RECEIVED

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

FEB 14 2011

HOBBSUCD

WELL API NO. 30-025-09787
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 211
9. OGRID Number 263848
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 ☐ Gas Well ☐ Other ☒ Injector2. Name of Operator
Resaca Operating Company3. Address of Operator
2509 Maurice Road, Odessa, TX 797634. Well Location
Unit Letter K : 2310 feet from the South line and 2310 feet from the West line
Section 24 Township 24S Range 36E NMPM Lea County11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3312' GL

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 and Above Ground Steel Pit.
- 2.) POOH w/ 2 3/8" tubing and 4" x 2 3/8" Baker AD-1 Tension Packer.
- 3.) RIH w/ 4 3/4" Bit & 6- 3 1/2" Drill Collars on 2 7/8" work string.
- 4.) RU swivel and clean out well to 3600'.
- 5.) Acidize OH 3001'-3600' w/ approximately 10,000 gallons 90/10 Mixture of NEFE 15% Acid/ Xylene.
- 6.) POOH w/ 2 7/8" work string; RIH w/ 2 3/8" tubing.
- 7.) RIH w/ 4" x 2 3/8" Baker AD-1 Tension Packer; circulate annulus with inhibited packer fluid
- 8.) Set Packer within 100' of top OH @ 3001'; test annulus to 500 psig for 30 minutes; Pull chart for NMOCD.
- 9.) RDMO Pulling Unit, clean location, clean and dispose of pit fluids.
- 10.) Place well on Injection at approximately 500 bwpd; Maximum permitted injection pressure is 800 psig.

Per Underground Injection Control Program Manual

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

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

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 2/11/11

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 MGR DATE 2-15-2011
 Conditions of Approval (if any):

WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC		LEASE NAME Cooper Jal Unit		WELL NO. 211 W	
STATUS: Active		Water Injector		API# 30-025-09787	
LOCATION: 2310 FSL & 2310 FWL, Sec 24, T - 24S, R - 36E; Lee County, New Mexico		SPUD DATE: TD 3600 KB 3,325' DF		INT. COMP. DATE: 04/04/50 PBTD 3600 GL 3,312'	
Surface Csg Hole Size: 11 in Csg. Size: 8 5/8 in Set @: 302 ft Sxs Cmt: 125 Circ: Yes TOC @: surf TOC by: circ		ELECTRIC LOGS: Injection Profile (3-18-97 Houston Inc.) Injection Profile (5-4-95 Houston Inc.)			
		GEOLOGICAL DATA GR-DSN-DLL from 3600 - surface (2-1-94 Halliburton) GR-DSN-SDL from 3600 - 3001' (2-1-94 Halliburton) GR- Compensated Sonic from 3600 - 3001' (2-1-94 Halliburton)			
		HYDROCARBON BEARING ZONE DEPTH TOPS: Yates @ 3018' 7-Rivers @ 3235' Queen @ 3605'			
		CASING PROFILE SURF. 8 5/8" - 29.75#, J-55 set@ 302' Cmt'd w/125 sxs - circ cmt to surface. PROD. 5 1/2" - 14#, J-55 set@ 3001' Cmt'd w/400 sxs - TOC @ 895' from surface by calculation. LINER 4" - 10.46# Hydrill F. J. set at 2970', Cemented with 200 sx Class C to surface.			
5 1/2" csg lk @ 320'-350' sqz w/150 cl c sqz w/200 cl c Nov-03 TOC @ 895' By Calc.		CURRENT PERFORATION DATA CSO. PERFS: OPEN HOLE: 3001 - 3400'			
		TUBING DETAIL 1/23/2009		ROD DETAIL	
		Length (ft) Detail 0 KB 2921 92 2 3/8" 4.7#, IPC, J-55, 8rd EUE tbg. 3 1 4" x 2 3/8" Baker AD-1 packer 2924 btm			
		WELL HISTORY SUMMARY 04-Apr-50 Initial completion 3001 - 3244' (Yates OH): No stimulation. IP=56 bopd, 0 bwppd, & 53 Mcfgpd. (flowing) 09-Sep-54 Frac OH w/2,000 gals lse oil carrying 3,000#s sand. Re-frac OH w/14,000 gals lse oil carrying 18,000#s sand. 14-Jul-57 C/O to 3244' & place on pmp. 22-Feb-59 C/O to 3244'. (No report on location of fill) 17-Nov-70 CONVERTED TO INJECTOR: C/O fill to 3244'. 07-Jul-89 C/O fill from 3030 - 3244' (214'). Acid'd OH w/4,000 gals 15% NEFE HCL in 4 equal stages diverting w/500# rock salt blocks. Ran PKR on 2 3/8" CL tbg. Placed well on injection @ 445 bwppd, TP=875 psi. 11-Jan-94 RIH 4 3/4" bit, 12 - 3 1/2" OD DCs. Tagged @ 3235', getting returns out of bradenhead. Found holes in 5 1/2" csg'. At 320' to 350'. Sqzd w/ 150 sacks class "c" w/2%. Circ'd w/ 22 sxs cmt. Drilled & test sqzd to 500#-held. Tagged junk at 3255'. Drilled junk & deepened well to new TD of 3600'. Ran GR-MSFL-DLL, GR-DSN-SDL, & GR-Borehole Compensated Sonic Logs. Acid'd OH w/ 8,400 gals 20% NEFE HCL. Well DHC Injection (Jal & L M). Begin injection @ 339 bwppd @ 450 psig. 04-May-95 Ran injection profile. Results: 73% fluid - 3060 -70', 11% fluid - 3300-11', & 16% fluid - 3528-43'. 06-Mar-97 Tagged fill @ 3538'. (62') Dumped sand in OH & PB f/ 3538 - 3420'. Omp cmt f/ 3420-3400'. Acid'd OH (3001'-3400') w/ 4,000 gals 15% using N2 foam as diverter using coiled tubing. AIR (fluid)=1.2 bpm. Ran PKR on 2 3/8" CL tbg. Set PKR @ 2952'. Test casing - good test. Initiated injection @ 486 bwppd, TP=250 psi. 14-Feb-02 Tag TD using SL unit (1 1/4" x 5' sinker bar). Tag fill @ 3048' (352' of fill). 23-May-02 Wash w/surfactant H2O. 3 passes & wash w/acid. Pump w/1240 gals. Pmp., flush w/ acid. Flow Bk. Put on Inj. @ 200 BWPD. 01-Oct-93 Administrative Order No. WFX-648. Approved Division Order No. R-4019 & R-4020 for Waterflood Expansion. 17-Nov-03 POOH w/ 2 3/8" IPC tbg & AD-1 pkr. RIH w/ 4 3/4" bit, 6 3 1/2" DCs & tagged @ 3148'. C/O to 3400'. Located 5 1/2" csg lk between 325' to 356'. Sqz'd w/200 sx Class C Neat w/2% CaCl. Hesitation sqz - final press was 330 psig, dropped 200# in 5 minutes. Drilled cmt f/ 230' to 300'. Test sqz to 500 psig - bled to 300# in 5 minute. Recovered RBP. RIH w/ 5 1/2" Baker AD-1 Tension packer and set 2901'. Pressure annulus to 500 psig. Pull pressure chart for OCD filing. 26-Jan-04 POOH w/ 2 3/8" IPC tbg & lay down AD-1 pkr. RIH w/ 4.45" Junk Basket & CCL on W/L. Found end of csg @ 3001'. RIH w/ Composite Bridge Plug & set @ 2980'. RIH w/72'-4" Lnr. Cmt w/ 200 sx Class C Neat cmt, circ'd w/ 34 bbls cmt. Test 5 1/2" csg to 500# - did not held. D/O wiper plug, float shoe, & tagged Composite Bridge Plug @ 2970'. Test 4" lnr to 500# - held. Composite Bridge Plug & tagged @ 3400'. Circ'd clean & laid down work string & BHA. RIH w/ 4" Baker Model AD-1 PKR. Hydrotest tbg to 5000#. Locate PKR @ 2962', circ annulus w/ 50 bbls of inhibited 2% KCl wtr. Set PKR & test annulus to 500# - held. PBTD @ 3400'. Pulled chart for OCD. Prior rate & press: S/I. After rate & press: 230 BWPD @ 420 psig. 25-Mar-04 Pumped 30 bbls surfactant water. Acidized with 1000 gals 15% NEFE acid @ 2.5 BPM. Flushed with 12.5 bbls water. Prior rate & pressure: 288 BWPD @ 700 psig. After rate & pressure: 255 @ 500 psig. 04-Dec-04 Before Rate & Press: 279 bwppd at 820 psig. RIH w/1 1/4" Perf-Clean Tool on 1 1/4" CT. Washed OH (2975'-3400') w/ surfactant 2% KCl fresh water. Made 3 passes: TP= 3500#, Annulus Press= 100#. Acidized open hole (2975'-3400') w/ 4200 ga 15% NEFE HCL. Made 3 passes: TP= 3700psig, Annulus Press= 960#, ISIP= 770#. After Rate & Press: 208 bwppd @ 500 psi 08-Nov-05 RIH with 1 1/4" x 5' sinker bar and tagged at 3,092'. 18-Apr-08 POOH w/inj String & AD-1 PKR. RIH w/3 1/4" on 2 3/8" tbg, tagged fill @ 3107'. Bit kept plugging up. RIH w/Notch Collar. C/O 1 3107' to 3251', circ'd form. & oil. Next day tagged at 3251', C/O to 3400'. RIH w/ 4" AD-1 PKR on 2 3/8" CL tbg. Discovered cra in cement line through out tubing string. Laid down 91 joints CL tubing. RIH w/ AD-1 PKR on new 2 3/8" IPC tubing. Set PKR at pressure annulus to 420 psig for 30 minutes. Pulled chart for OCD. 21-May-08 Acidized Jalmat w/ 71 bbls 15% NEFE HCL acid 3000# rock salt & d 29 Tons of CO2. Rate = 7.8 bpm @ 2827 psi. ISIP = 751 p Before Rate & Press: 253 bwppd at 733 psig. After Rate & Press: 341 bpd @ 680 psi. 20-Jan-09 POOH with injection string & AD-1 PKR. RIH with 3 1/4" on 2 3/8" tbg, tagged bridge @ 3089'. Cleaned out from 3372' to 3,5 Recovered 80% sand & 20% formation. Cleaned from 3450' to 3600'. Hydrotest tubing - no holes. Test annulus to 560#. 27-Apr-09 RU Gray Wireline. Tagged @ 3,058' with 1" sinker bar. RD wireline. Placed well on injection. Rate/Press: 539 bwppd/750#.			
Liner Lnr Size: 4" HD Set @: 2970' Sx Cmt: 200 Circ: yes		pkr @ 2923' Jalmat Yates @ 3018' OH Interval 3001 - 3400'			
Production Csg. Hole Size: 7 7/8 in Csg. Size: 5 1/2 in Set @: 3001 ft Sxs Cmt: 400 Circ: No TOC @: 895 f/ surf. TOC by: calc.		7-Rivers @ 3235' Langlie Mattix at 3400' Queen @ 3605'			
PBTD: 3600 ft TD: 3600 ft OH IE 4 3/4 in					
PREPARED BY:		Larry S. Adams		Domingo Carrizales	
				UPDATED: 20-May-09	