

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAR 07 2011

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No. LC- 063965
6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

7. If Unit of CA/Agreement, Name and/or No. NM 70926X

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other/ Injector

8. Well Name and No. Cooper Jal Unit #132

2. Name of Operator

Resaca Operating Company

9. API Well No. 30-025-09639

3a. Address

2509 Maurice Road Odessa, TX 79763

3b. Phone No. (include area code)

(432)- 580-8500

10. Field and Pool or Exploratory Area

Jalmat-T-Y-7Rvrs; Langlie Mattix: 7Rvrs-Q-Grayburg

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2310 Feet from South Line, 990 Feet from East Line, Section 24, Township-24S, Range-36E,

11. Country or Parish, State

Lea County, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input checked="" type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Clean out Injector w/ Bit
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

OBJECTIVE: Clean out Injector with Bit and Acidize

- 1.) MIRU Pulling Unit and Above Ground Steel Pit.
- 2.) POOH w/ 2 7/8" tubing and 5 1/2" x 2 7/8" Baker Model AD-1 Tension 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 3640'.
- 5.) Acidize perms 3024'-3474' & OH 3475'-3640' w/ 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 7/8" Baker Model AD-1 Tension Packer; circulate annulus with inhibited packer fluid
- 8.) Set Packer within 100' of top perf @ 3024'; 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 600 bwpd; Maximum permitted injection pressure is 675 psig.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Melanie Reyes

Title

Engineer Assistant

Signature

Date 02/22/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

/s/ JD Whitlock Jr

Title

LIE7

Date

3/3/11

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

CFO

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

COX

WELLBORE SCHEMATIC AND HISTORY			
CURRENT COMPLETION SCHEMATIC		LEASE NAME Cooper Jal Unit	
STATUS: Active		WELL NO 132 WIW.	
LOCATION: 2310 FSL & 990 FEL, Sec 24, T. 24S, R. 36E, Lee County, New Mexico		API# 30-025-09639	
SPUD DATE: 04/08/54 TD 3640		KB 3,315' DF	
INT. COMP. DATE: 05/12/64 PBTD		GL 3,307'	
ELECTRIC LOGS:		GEOLOGICAL DATA	
GR-N from 0 - 3556' (4/25/54 Schlumberger) GR-CBL-MSG-CCL from 2,000 - 3,300' (6-7-95 Halliburton) Injection Profile (1-29-97 Houston, Inc.)		CORES, DST's or MUD LOGS:	
HYDROCARBON BEARING ZONE DEPTH TOPS:		CASING PROFILE	
Yates @ 3016' 7-Rivers @ 3236' Queen @ 3628'		SURF. 8 5/8" - 24#, J-55 set @ 283' Cmt'd w/124 sxs - circ cmt to surf. PROD. 5 1/2" - 14#, J-55 set @ 3475' Cmt'd w/400 sxs - TOC @ 2420' from surf. DV tool @ 1211' - pmp 100 sxs - LINER None 5 1/2" - TOC @ 685' // surf by calc.	
CURRENT PERFORATION DATA			
CSG. PERFS: OPEN HOLE : 3475 - 3555' (7 RVRs/Queen OH). 1-Jun-95 Perf'd Yates // 3024'-42', 3066'-83', 3095'-3112', 3125'-33' & 3148'-70' w/ 2 spf (164 holes total) 26-Jan-09 Perf'd 7-R // 3466'-74', 3282'-93', 3212'-16'; Perf'd Yates // 3152'-70', 3124'-34', 3118'-22', & 3046'-54', 75 ft, 75 holes, 1 JHPF.			
TUBING DETAIL 1/28/2009		ROD DETAIL	
Length (ft) Detail		WELL HISTORY SUMMARY	
8 KB 2915 98 jts - 2 7/8" 6.5#, CL, J-55, 8rd EUE tbg. 3 1-5 1/2" x 2 7/8" Baker Model AD-1 packer 2926 blm		12-May-54 Initial completion interval: 3475 - 3555' (7 RVRs/Queen OH). Frac'd w/4,000 gals & 0 #s sand. Burst csg @ 280', Cement sqz csg leak w/200 sxs (3 jobs) Tst OK @ 875 psi. Frac'd w/4,000 gals & 6,000#s sand. IP = 173 bopd, 245 Mcf/d (flowing). 11-Apr-76 Acidz'd OH w/ 1,500 gals. Tight spot in csg @ 210' 18-Feb-85 C/O fill from 3473 - 3555' (82' of fill). Deepened to 3640'. Acidz'd OH 3475 - 3640' w/4,000 gals in 2 stages using 500# rock salt. Frac'd w/22,000 gals X-L gel & 56,000#s 12/20 sand ramping to 6 ppg. 11-Mar-87 C/O fill to 3640' 21-Apr-87 C/O fill to 3628' 15-Apr-88 Tag fill @ 3628' 01-Oct-93 Administrative Order No. WFX-648. Approved Division Order No. R-4019 & R-4020 for Waterflood Expansion. 01-Dec-93 CONVERTED TO INJECTOR: C/O from 3508 - 3640'. Acidz'd OH w/4,000 gals 20% NEFE combined with 110 gals UT-460 & 110 gals T-425 microlular solvent & 1400#s rock salt. AIR=3 bpm @ 900 psi. ISIP=680 psi. RIH w/ CL tbg & pkr. Set pkr @ 3370'. Noted pkr is 105' above hole in csg. Inject @ 263 bwpd w/ TP=vacuum. 01-Jun-95 Ran GR-CBL-CCL. Perf (Jalmat) 2950 - 3170 (selectively). Acidz'd w/5,000 gals 15% NEFE HCL & 250 RCN ball sealers in 6 stages. Ran 2 3/8" CL tbg & pkr. Set pkr @ 2962'. Tst pkr. OK. Inject @ 481 bwpd w/ TP=580 psi. Converted to DHC injector w/ Pmax surf injection press = 590 psi. 28-Jun-00 C/O hard scale from 3145 - 3370'. Set CIBP @ 3300' and dmp 35' cmt on top. (PBTD @ 3265'). Acidz'd perfs 3024'-3170' w/ 4,000 gals 15% NEFEHCL & 2,000#s rock salt in 3 stages. AIR=4 bpm @ 1380 psi. ISIP=570 psi, P15 min= 140 psig. Ran pkr on 2 3/8" CL tbg & set pkr @ 2955'. Injecting @ 250 bwpd, TP=160 psi. 14-Feb-02 Tag TD using SL unit (1 1/4" x 5' sinker bar). Tag fill @ 129' (3511' of fill) 14-Oct-03 Bladenhead Test failed: Bled CSG dn to 0 psi. SI for 15 min-press build up to 500#. Witnessed by OCD Rep-Buddy Hill. 28-Oct-03 POOH with 2 3/8" IPC tbg & 5 1/2" x 2 3/8" AD - 1 packer. Laid down 2 3/8" IPC tbg. Clean out to 3265'. POOH and laid down with 4 3/4" bit, 6 - 3 1/2" drill collars. RIH with redressed 5 1/2" x 2 3/8" AD-1 packer on reconditioned 90 - 2 3/8" IPC tubing to 2954'. Packer would not test. Set packer at 2925', would not test. POOH with injection string. Test casing to 500 psig - held. RIH with injection string to 2931'. Circulated annulus with 70 barrels of 2 % KCl & inhibited packer fluid. Set Packer with 20,000# tension. Test casing to 500 psig - held. Pulled pressure chart for OCD. 07-Nov-05 RIH with 1 1/4" sinker bar and tagged at 3,272' (PBTD). 20-Jan-09 POOH w/2 3/8" IPC tbg & 5 1/2" x 2 3/8" AD - 1 packer. RIH w/ 4 3/4" bit & DCs. Drilled cmt & CIBP @ 3300'. C/O to 3640'. Lost Perf Gun in open hole. Fished Perf Gun. Perf'd 7-R // 3466'-74', 3282'-93', 3212'-16'; Perf'd Yates // 3124'-34', 3118'-22', & 3046'-54', 75 ft, 75 holes, 1 jsfp, 120 degree phasing. Test annulus to 350 psig. 24-Apr-09 RU Gray WL. Tagged @ 37' w/ logging tool. RD wireline. Placed well on injection. Rate/Press: 781 bwpd, 694#.	
OH Interval ##		PREPARED BY: Larry S. Adams D. Carrizales	
Queen @ 3628'		UPDATED: 20-May-09	

Conditions of Approval

Resaca Operating Company

Cooper Jal Unit #132

March 3, 2011

1. Conduct a Mechanical Integrity Test of the tubing/casing annulus any time the packer or tubing is pulled.
 - a. The test pressure should be 500 psig or at least 200 psig above the tubing (at test time) pressure but no more than 70% of burst of casing test pressure as described by Onshore Order 2.III.B.1.h. (The reservoir pressure may need to be reduced). Trap that pressure and record it on a chart for 30 minutes.
 - b. Less than a 10% leakoff may not restrict injection approval. Any leak-off will be evaluated. Document the MIT on a calibrated recorder chart within 25 to 85 per cent of its full range. Notify Paul R. Swartz at 575-234-5985 and/or 575-200-7902 at least 24 hours before the test. If there is no response, notify the BLM on call drilling phone, 575-361-2822.
 - c. Submit the recorded MIT chart with a subsequent Sundry Form 3160-5 relating the MIT activity. **Include the original and three copies of the recorded chart and Sundry.** (the original will be returned to the operator)
2. Submit documentation, (NMOCD permit number) of the maximum tubing injection pressure allowed by NMOCD.
 - a. Approved injection pressure compliance is required.
 - b. Display real time tubing pressure values onsite. A bourdon tube gauge registering 25% to 85% of its full range is acceptable.
 - c. If injection pressure exceeds the maximum approved pressure you will be required to notify the BLM within 24 hours.
 - d. When injection pressure is within 50 psig of the maximum pressure, install automation equipment that will prevent exceeding that maximum.
 - i. Submit a subsequent report (Sundry Form 3160-5) describing the installed automation equipment.
 - e. Other unexplained significant variations of rate or pressure will be reported within 5 days of notice.

3. The casing/tubing annulus will be required to be monitored for communication with injection fluid or loss of casing integrity.
 - a. The use of automation equipment that will monitor and alarm is required when packer, tubing, or casing competence is questionable (such as pressure change during a MIT).
 - b. The annulus shall be maintained full of packer fluid at atmosphere pressure.
 - i. Verification of fluid level to a BLM inspector at any time is required.
 - c. Any loss of packer fluid above (5bbl/mth) requires notification to the BLM authorized officer.
 - d. Any gain of annular fluid requires notification to the BLM authorized officer within 5 days.
 - e. Should a failure be detected, cease injection and maintain a production casing pressure of Opsig. Notify the BLMs authorized officer (Paul R. Swartz at 575-200-7902) within 24 hours. If there is no response, notify the BLM on call drilling phone, 575-361-2822.
 - f. Also submit to this office a (Sundry Form 3160-5) Notice of Intent (NOI) for approval by BLM and NMOCD a plan for correction and the anticipated date of correction.
 - g. After the repairs submit a (Sundry Form 3160-5) Subsequent report, describing the repair(s) and Mechanical Integrity Test as per item 1 above.
 - i. Include the date(s) of the well work, descriptions of tubing, on/off equipment, profile nipple installation, and packer setting depth.