

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FEB 21 2011

HOBBSDOCD

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

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.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <i>Trg</i>	3b. Phone No. (include area code) 432-580-8500
2. Name of Operator Resaca Operating Company	
3a. Address 2509 Maurice Road, Odessa, TX 79763	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 660' FSL & 628' FWL Sec. 19, T24S, R37E	

5. Lease Serial No. LC 063965
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No. NM 70926X
8. Well Name and No. Cooper Jal Unit #220
9. API Well No. 30-025-11162
10. Field and Pool, or Exploratory Area Jalmat; T-Y-7R/Langlie Mattix; 7R-Q-G
11. County or Parish, State Lea, NM

12. CHECK 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 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
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	to 3600'
	<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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

- 1.) Moved in, rigged up Pulling Unit and Above Ground Steel Pit. NU BOP.
- 2.) POOH w/ 2 3/8" tubing and 5 1/2" x 2 3/8" Baker PC AD-1 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 Perfs 2986'-3320' and OH 3350'-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/ 5 1/2" x 2 3/8" Baker PC AD-1 Packer; circulate annulus with inhibited packer fluid.
- 8.) Set Packer within 100' of top perf @ 2986'; 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 400 bwpd; Maximum permitted injection pressure is 730 psig.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL****SUBJECT TO LIKE
APPROVAL BY STATE**14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Melanie Reyes

Title Engineer Assistant

Signature

Date

02/11/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by *[Signature]*
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.

Title

Office

APPROVED

FEB 16 2011

Date

/s/ Dustin Winkler

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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 any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC

LEASE NAME

Cooper Jal Unit

WELL NO 220 WIW

STATUS:

Active

Water Injector

API#

30-025-11162

LOCATION:

660 FSL & 628 FWL, Sec 19, T - 24S, R - 37E, Lee County, New Mexico

SPUD DATE:

TD

3600

KB

3,294'

DF

INT. COMP. DATE:

03/22/50

PBD

3600

GL

3,284'

ELECTRIC LOGS:

GEOLOGICAL DATA

CORES, DSTS or MUD LOGS:

GR - Resistivity (3.17-50 Schlumberger)
 Ejecto Log Tracer (11-8-76 Cardinal Surveys Co.)
 GR-N (10-17-87 Wedge CRC Inc.)
 GR-MSFL-DLL from 3600 - 3350' (1-28-94 Halliburton)

GR-DSN-SDL from 3600 - 2600' (1-28-94 Halliburton)
 GR-BHC Sonic log from 3600 - 3350' (1-28-94 Halliburton)
 Injection Profile (4-24-95 Houston Inc.)

HYDROCARBON BEARING ZONE DEPTH TOPS:

Yates @ 2979'

7-Rivers @ 3210'

Queen @ 3548'

SURF.

8 5/8" - 22.70#, J-55 set @ 291' Cmt'd w/175 sxs - circ cmt to surf.

PROD.

5 1/2" - 15.5#, J-55 set @ 3350' Cmt'd w/1000 sxs - TOC @ 1450' from surface by Temperature Survey.

LINER

None

CURRENT PERFORATION DATA

CSG. PERFS:

25-Oct-87

22-Mar-50

Perf'd Jaimat // 3060 - 3158 w/ 4 spr (392 noies)

OPEN HOLE:

Langlie Mattix

Perf'd Jaimat // 2986 - 3050 w/ 1 spr (20 noies) & 3160-3320 w/ 1 spr (30 noies)

TUBING DETAIL

10/20/2005

ROD DETAIL

Length (ft)

Detail

10 KB

2941 91

2 3/8" 4.7#, C.P.L., J-55, 8rd EUE tbg.

3 1

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

2954 btm

WELL HISTORY SUMMARY

22-Mar-50 Initial completion (Yates) perf'd 3060 - 3158'. Acid'd w/ 1,000 gals. IP=84 bopd, 0 bwpd, & 63.7 Mcfgpd.
 2-Jul-71 CONVERTED TO INJECTOR.
 8-Nov-76 Ran injection survey. Tagged fill @ 3136'. No fluid flow below 3065'.
 25-Oct-87 Cmt sqz'd csg leak from 697'-729'. Perf'd intervals 2986 - 3050' & 3160 - 3320' (56 holes total). Acid'd perf'd w/ 7,000 gals in 4 stages. Installed new injection tbg & pkr. Placed well on injection.
 13-Jan-94 C/O scale // 3320'-3347' (127'). Deepened well w/ 4 3/4" bit to 3600' (TD). Ran GR-MSFL-DLL // 3600'-3350'. Run GR-DSN-SDL // 3600 - 2600'. Ran GR-BHC Sonic log // 3600 - 3350'. Set pkr @ 2936' & acid'd all perms & OH w/ 8,400 gals 20% NEFE HCL & 0.2% Claytrol in 3 stages diverted with 3,500#s rock salt (total). AIR=5.4 bpm. ISIP=655 psig. P15 min= 479 psi. Installed injection equipment. Initiated injection @ 519 bwpd, TP= 590 psi.
 14-Feb-02 Tag TD using SL unit (1 1/4" x 5' sinker bar). Tag fill @ 3449' (151' of fill).
 22-May-02 RIH w/coil tbg. wash down. Tag @ 3585' & clean to 3586'. Sand wash Pass up to pkr @ 2955' & down 2955' to 3586'. Fill to 3590'. check depth POH w/coil & found pinhole in coil @ 360' // per/clean tool. Cut & redo tool. RIH & wash to 3600'. SI annulus + pump acid pass. Pmp. rate- 9 BPM PSI- 3565# Csg.- 63# Pump 60 bbls 15% NEFE + flush to TD w/ 23 bbls. POOH w/ coil tbg. ISIP- 660# put on Inj. 350 BPD rate @ 300#.
 01-Oct-93 Administrative Order No. WFX-648. Approved Division Order No. R-4019 & R-4020 Waterflood Expansion.
 19-Oct-05 Found hole on top cmt lined tbg jt. POOH w/CL tbg & AD-1 pkr. Hydrotest tbg in hole to 4,000#. Circ'd pkr fluid, set PKR at 2,954'. Press test annulus to 280# - held. Pull press chart for OCD. PWOL: 300 BWPD at 400#.
 08-Nov-05 RIH with 1 1/4" x 5' sinker bar and tagged at 2,322'.
 22-Jan-08 SITP= 0#. POOH with injection tubing and AD-1 PKR. RIH with 4 3/4" mill tooth bit, 6 - 3 1/2" drill collars on 2 7/8" work string. Tag at 3,100', cleaned out to 3,600'. Recovered iron sulfide and formation. Waited one day for coated injection tubing from Permian Enterprises. RIH with 5 1/2" AD-1 PKR on 2 3/8". Circulated with packer fluid, set PKR at 2,950'. Pressure test annulus to 400 psig - okay. Pull chart for OCD.
 21-May-08 Acidized down injection string: Yates, Upper 7-Rivers & Lower 7-Rivers w/ 72 bbls 15% NEFE HCL acid, 3000# RS & 27 Tons CO Rate = 5.4 bpm @ 1817 psi. ISIP = 978 psi. Before: 369 bpd @ 715 psi; After: 432 bpd @ 400 psi.

Surface Csg

Hole Size: 11 in
 Csg. Size: 8 5/8 in
 Set @: 291 ft
 Sxs Cmt: 175
 Circ: Yes
 TOC @: surf
 TOC by: circ

Csg Lk at
 697'-729'
 Cmt Sqz'd

TOC @ 1450'
 By T. S.

Fill @ 2322'

pkr @ 2950'

Jaimat
 Yates @ 2979'

2986 - 3050'

3060 - 3158'

3160 - 3320
 7-R @ 3210'

Langlie Mattix

OH Interval
 ##

Queen @ 3548'

Production Csg.

Hole Size: 7 7/8 in
 Csg. Size: 5 1/2 in
 Set @: 3350 ft
 Sxs Cmt: 1000
 Circ: No
 TOC @: 1450 f/ surf.
 TOC by: TS

PBD: 3600 ft
 TD: 3600 ft

OH ID: 4 3/4 in

PREPARED BY:

Larry S. Adams

Domingo Carrizales

UPDATED:

10 Jun 08

Resaca Operating Company
NMLC-063965: Cooper Jal Unit #220
API: 30-025-11162
Lea County, New Mexico

RE: Clan out and Acidize – Conditions of Approval

There is to be no surface disturbance beyond the originally approved pad. A closed loop system is to be used. H2S monitoring and protection equipment is to be on site.

2000 (2M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (2M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.

Submit subsequent report with well test once work is completed.

DHW 021611