

OCD-HOBBS RECEIVED

Form 3160-5
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FEB 21 2011

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>Inj</i>		5. Lease Serial No. NM-12612
2. Name of Operator Resaca Operating Company		6. If Indian, Allottee or Tribe Name
3a. Address 1331 Lamar, Suite 1450 Houston, TX 77010	3b. Phone No. (include area code) 432-580-8500	7. If Unit or CA/Agreement, Name and/or No. Cooper Jal Unit- NM 070926X
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1400' FSL & 280' FWL Sec. 19, T24S, R37E		8. Well Name and No. Cooper Jal Unit #153
		9. API Well No. 30-025-26128
		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 Knock Out CIBP's,
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Clean Out & put on
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	DHC Injection

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.) Move in, rig 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" Guiberson UNI VI, IPC Packer.
 - 3.) RIH w/ 4 3/4" Bit & 6- 3 1/2" Drill Collars on 2 7/8" work string.
 - 4.) RU Swivel, knock out CIBP @ 3260' and CIBP @ 3570', clean out to 3696', circulate well clean.
 - 5.) Acidize Perfs 3003'-3696' w/ 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" Guiberson UNI VI, IPC Packer; circulate annulus w/ inhibited packer fluid.
 - 8.) Set Packer within 100' of top perf @ 3003'; 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 DHC Injection (Jalmat/Langlie Mattix) at approximately 600 bwpd; Maximum permitted injection pressure is 601 psig.
- *WFX- 671, DHC R-5590

SEE ATTACHED FOR
CONDITIONS OF APPROVALSUBJECT TO LIKE
APPROVAL BY STATE14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Melanie Reyes

Title Engineer Assistant

Signature

Date

02/10/2011

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

Date

FEB 16 2011

/s/ Dustin Winkler

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)

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Cox

WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC

LEASE NAME

Cooper Jal Unit

STATUS

Active

Water Injector

WELL NO.

153 WIW

LOCATION:

1400 FSL & 280 FWL, Sec 19, T - 24S, R - 37E, Lee County, New Mexico

API#

30-025-26128

SPUD DATE:

01/04/79 TD

3711

KB

3,302'

DF

INT. COMP. DATE:

02/01/79 PBTD

3250

GL

3,291'

ELECTRIC LOGS:

GR-N (1-17-79 WELEX)

Forxo-Guard log (1-5-55 Halliburton)

CORES, DST'S or MUD LOGS:

GR-N (12-27-48 Lane Wells)

Tracer Survey (6-27-91 Cardinal Surveys)

GEOLOGICAL DATA

HYDROCARBON BEARING ZONE DEPTH TOPS:

Yates @ 2993'

7-Rivers @ 3224'

Queen @ 3573'

CASING PROFILE

SURF. 8 5/8" - 24#, K-55 set@ 368' Cmt'd w/250 sxs - circ cmt to surf.

PROD. 5 1/2" - 15.5#, K-55 set@ 3711' Cmt'd w/1000 sxs - circ cmt to surface.

LINER None

CURRENT PERFORATION DATA

CSG. PERFS:

01-Feb-79 **Perf'd 7 Rivers** 1/ 3278', 80', 82', 84', 3337', 39', 3409', 11', 14', 41', 44', 47', 70', 74', 78', 3574' & 76' w/ spf (17 holes - .49")

07-May-87 **Perf's Queen** 1/ 3616 - 96' (86 holes);

07-May-87 **Perf'd Yates** 1/ 3003', 05', 07', 10', 13', 15', 17', 19', 21', 22', 23', 24', 25', 27', 44', 47', 49', 55', 57', 59', 61', 62', 63', 64', 65', 67', 85', 87', 89', 90', 91', 92', 93', 95', 97', 3102', 17', 19', 31', 33', 34', 35', 37', 39', 43', 47', 49', 51', 57', 59', 71', 73', 75', 3211', 13', 15', 25', 27', & 29' w/ 2 spf (118 holes)

TUBING DETAIL

1/28/2000

ROD DETAIL

Length (ft)

Detail

0 KB

2860 92

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

7 1

5 1/2" x 2 3/8" Guiberson UNI VI, IPC, packer

2867 btm

WELL HISTORY SUMMARY

01-Feb-79 Initial completion - **perf'd (Seven Rivers) 3278'-3576'**; Acdd'd w/4,500 gals dropping 25 ball sealers. Fraced w/42,200 gals gelled water carrying 32,500#s 20/40 sand & 15,000#s 10/20 sand dropping 18 ball sealers. Generating 2 equal stages (Max sand concentration was 2 ppg). IP= 49 bopd, 189 bwpd, & 45.6 Mcfgpd (pumping).

07-May-87 C/O to 3700'; **Added Queen perf's 3616 - 96' (86 holes)**. Acdd'd w/ 3,500 gals; Frac'd w 30,000 gals carrying 59,000#s 12/20 (Max sand concentration was 7 ppg). **Added perf's 3003 - 3229' (118 holes)**. Acdd'd w/ 6,000 gals; Frac'd w/ 44,100 gals carrying 75,000#s 12/20 sand. AIR=17.5 bpm, PM=2200 - 1400 psi. C/O frac sand from 3155 - 3570'. **Drid CIBP @ 3260' and pushed to 3700'**. Lost cone off 4 3/4" bit. TOF (4 3/4" cone) est. @ 3700'. Set CIBP @ 3570' and dumped 15' cmt on top. **PBTD @ 3555'. After WO: 50 bopd, 149 bwpd, GOR=840**

01-Oct-93 **Administrative Order No.-648. Approved Division Order No. R2019 & R-4020 for Waterflood Expansion.**

01-Aug-95 C/O & CONVERT TO INJECTOR: Set CIBP @ 3260'. Dmp 10' cmt on top of CIBP. **PBTD @ 3250'**. Acdd'd perfs 3003'-3229' w/5000 gals 15% NEFE HCL & 1700#s rock salt in 4 stages. AIR=5.2 bpm, ISIP=vacuum. Ran injection tubing & Pkr. Set pkr @ 2944'. **Initiated injection at 672 bwpd, TP=vacuum**

05-Jan-00 C/O (scale and iron sulfide) from 3033' - 3252' (219'). RIH w/pkr to 3200' & tst csg to 500 psi. OK. Acdd'd perfs 3003 - 3229' w/4,000 gals 15% NEFE HCL. Swab perfs recovering 108 BLW w/ no oil skim. Ran pkr on 2 3/8" IPC tbg. Set pkr at 2867'. **Initiated injection @ 500 bwpd, TP=0 psi.**

14-Feb-02 Tag TD using SL unit (1 1/4" x 5' sinker bar). Tag fill @ 3243' (7' of fill)

08-Nov-04 POOH w/ 2 3/8" IPC tubing & 5 1/2" x 2 3/8" Guiberson Packer. Hydrotest tubing in hole to 6000# - okay. Circulate 65 bbls of fresh water w/ 10 gallons of packer fluid. Set packer at 2,867'. Pressure test annulus to 400 psig for 30 minutes - okay. Pulled pressure chart for NWOD. Field Rep B. Hill witness the test. **Before: 0 bwpd; after: 606 bwpd @ 410 psig.**

20-Jan-05 **Shut In. Pressure test annulus to 330 psig for 30 minutes - held. Field Rep B. Hill witness the MIT. Before: 0 bwpd; After: 622 bwpd @ 410 psig.**

08-Nov-05 RIH with 1 1/4" x 5' sinker bar and tagged at 3,185'.

Surface Csg

Hole Size: 12 1/2 in
Csg. Size: 8 5/8 in
Set @: 368 ft
Sxs Cmt: 250
Circ: Yes
TOC @: surf
TOC by: circ

pkr @ 2867'

Yates @ 2993'

3003'

Fill @ 3185'

3229'

TOC @ 3250'

CIBP @ 3260'

7-Rivers @ 3224'

3278 - 3576'

TOC @ 3555'

CIBP @ 3570'

Queen @ 3573'

3616 - 96'

4 3/4" bit cone

CIBP @ 3700'

PBTD: 3250 ft

TD: 3711 ft

PREPARED BY:

Larry S. Adams

Domino Carrizales

ILLUSTRATED:

Resaca Operating Company
NM-12612: Cooper Jal Unit #153
API: 30-025-26128
Lea County, New Mexico

RE: Clean 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