

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

NOV-HOBBS  
HOBBS OCD

JUN 09 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.**

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. <b>032592B</b> LC- 063965
2. Name of Operator Resaca Operating Company		6. If Indian, Allottee or Tribe Name
3a. Address 2509 Maurice Road, Odessa, TX 79763	3b. Phone No. (include area code) (432) 580-8500	7. If Unit of CA/Agreement, Name and/or No. Cooper Jal Unit- NM 70926X
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Unit D, 330' FNL, 330' FWL, Sec. 30, T-24S, R-37E		8. Well Name and No. Cooper Jal Unit #141
		9. API Well No. 30-025-11292
		10. Field and Pool or Exploratory Area Jalmat; Tansill-Yates-7Rivers
		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 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 checked="" 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 <u>Clean Out &amp; add perforations</u>
	<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.)

- 1.) MIRU Pulling Unit and Above Ground Steel Pit; NU BOP; POOH w/ rods and tubing.
- 2.) Clean out to CIBP @ 3370'.
- 3.) Perforate Yates f/ 3064'-3200' (2 JHPF, 43', 86 holes) and 7 Rivers f/ 3206'-3334' (2 JHPF, 46', 92 holes).
- 4.) RU Service Company & prep to fracture stimulate well down 4 1/2" work string.
- 5.) Foam Sand Frac Perfs f/ 2980'-3334' w/ approximately 105,000#'s 16/30 Brady Brown Sand & 105,000#'s 16/30 resin coated Brady Brown Sand plus 1.71 MMCF Nitrogen, diverting w/ 130 Ball Sealers.
- 6.) RD Service Company. Install adjustable choke manifold w/ pressure gauge. Flow back well & clean up well, monitoring pressure and sand production until pressure depletes.
- 7.) POOH w/ 2 7/8" work string and lay down packer; clean out frac sand down to 3370'.
- 8.) RIH w/ 2 7/8" tubing, pump and rods.
- 9.) RDMO Pulling Unit, clean location, clean and dispose of pit fluids.

**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 04/06/2011
<b>THIS SPACE FOR FEDERAL OR STATE OFFICE USE</b>		
Approved by	Title	Office
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.		<div style="border: 2px solid black; padding: 5px; text-align: center;"> <b>APPROVED</b>   <b>JUN 2 2011</b>  Date   <b>WESLEY W. INGRAM</b>  <b>PETROLEUM ENGINEER</b> </div>

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.

## WELLBORE SCHEMATIC AND HISTORY

## CURRENT COMPLETION SCHEMATIC

LEASE NAME

Cooper Jal Unit

WELL NO

141

STATUS:

Active

Oil

API#

30-025-11292

LOCATION: 330 FNL &amp; 330 FWL, Sec 30, T - 24S, R - 37E; Lee County, New Mexico

SPUD DATE: TD 3535 KB 3,292' DF

INT. COMP. DATE: 09/09/55 PBTD 3335 GL 3,279'

## ELECTRIC LOGS:

## GEOLOGICAL DATA

## CORES, DSTS or MUD LOGS:

GR-N from surface - 3535' (9-6-55 Lane Wells)

Temperature Survey (9-1-55 Halliburton)

GR-CCL from 2800 - 3425' (10-5-93 Halliburton)

## HYDROCARBON BEARING ZONE DEPTH TOPS:

Yates @ 2977'

7-Rivers @ 3210'

Queen @ 3560'

## CASING PROFILE

SURF. 8 5/8" - 24#, J-55 set @ 1140' Cmt'd w/700 sxs - circ cmt to surf.

PROD. 5 1/2" - 14#, J-55 set @ 3410' Cmt'd w/400 sxs - TOC @ 2240' from surface by Temp. Survey.

LINER None

## CURRENT PERFORATION DATA

CSG. PERFS:

OPEN HOLE : 3410 - 3535'

Isolated below CIBP @ 3370'

4-Oct-93 Perf'd Yates (Jalmat) f/ 2980 - 91', 2994 - 99', 3004 - 11', 3016 - 38', 3042'-52', 3058'-62', 3085'-88',  
3090'-3100', 3112 - 36', 3141 - 46' w/ 2 spf (202 holes total - 0.56 dia., 120 deg phasing)

## TUBING DETAIL

7/28/2009

## ROD DETAIL

10/30/2010

## Length (ft)

## Detail

## Length (ft)

## Detail

2830 87 2 7/8" 6.5#, J-55, 8rd EUE tbg.

20 1 26' x 1 1/4" polish rod w/7/8" pin

3 1 5 1/2" x 2 7/8" TAC

0 1 1 1/4" x 1 1/2" x 14' liner

298 9 2 7/8" 6.5#, J-55, 8rd EUE tbg.

2 1 2' - 1" Pony Rod

31 1 2 7/8" x 3 1/2" Blast Joint

975 39 1" D steel rods

4 1 2 7/8" perf Sub

1450 58 7/8" D steel rods

1 1 2 7/8" SN

500 20 1 1/2" sinker bars

31 1 3 1/2" Mud Anchor

20 1 2 1/2" x 1 1/2" X 20' RHBC pump

3198

0

1 1/4" x 8' gas anchor

2967

TOC @ 2240'  
By TS

## WELL HISTORY SUMMARY

9-Sep-55 IC: 3410 - 3535' (7 RVRS/Queen OH). Acld'd with 500 gals mud acid. Frac'd with 4,000 gals lease oil with 10,000#s sand.  
IP= 141 bopd, 0 bwpd, & 133.5 Mcfgpd (flowing).

18-Aug-71 CONVERTED WELL TO INJECTION: C/O to TD @ 3535. Ran 2 3/8" CL tubing &amp; PKR. Set PKR @ 3370. Initiated injection.

28-Sep-74 Replaced 1 joint tubing. Return to injection.

30-Mar-77 Replaced 1 joint tubing. Return to injection.

6-Feb-93 C/O fill 3416 - 3535'. Acld'd with 5,000 gals 15% with 3% mutual solvent in 3 stages using 500# rock salt each for diversion.

4-Oct-93 Set CIBP @ 3370'. Dump 35' cement on top of CIBP. PBTD @ 3335'. Perf'd Yates (Jalmat) f/ 2980'-3146' ( 10 intervals, 2  
spf, 202 holes). Frac perfs with 41,000 glas 30# X-L gel carrying 183,600#s 12/20 sand and 40,580#s resin coated 12/20  
sand. AIR= 34.5 bpm. Pmax= 1923 psig. ISIP+1380 psig, P15min=1066 psig. Cleaned out sand f/ 3180'-3335'. Install tubing  
pump, and rods. PWOP. After WO: 46 bopd, 422 bwpd, & 16 Mcfgpd.

Yates @ 2977'

17-Feb-95 Replaced 1 bad jt tbg. Returned well to production.

9-Oct-95 Change out pmp. Returned well to production.

7-Oct-97 Ran tubing inspection. Replaced 22 joints of tubing. Ran new gas anchor and pump on rods. Placed well on production.

14-Oct-99 Replaced 1 bad joint tubing. Returned well to production.

27-Mar-00 Change out pmp. Returned well to production.

27-Feb-04 POOH with rods and pump. Tagged at 3282'. POOH with tubing. Hydrotest tubing to 7000 psig - found hole 3 joints above  
SN.RIH with pump and rods. PWOP.17-Aug-06 POOH w/ rods, pump and tubing - found hole on joint above SN. Laid down 5 joints due to pitting. Hydrotest tubing to 7000  
psig in hole - burst 92nd joint. Replaced 52 - 7/8" and 6 - 1" rod boxes. Load and test pump to 500 psig. PWOP.

19-Jul-07 POOH w/ rods, pump &amp; tbg. Hydrotest tubing to 7000# in hole - found hole on 96th joint. RIH w/ tbg, pump &amp; rods. PWOP.

20-Oct-08 POOH w/rods, pump &amp; tbg (laid 3 jts w/severe pitting). Hydrotest tbg to 7000# in hole - burst 2 jts. RIH w/tbg. PWOP.

24-Nov-08 POOH with rods and stuck pump in tubing. Hydrotest tubing to 7000#. RIH with pump and rods.

27-Jul-09 POOH w/ rods, pump &amp; tbg. RIH w/Tag Bar - tagged at 3,220'. RIH w/Pressure Tool, ran pressure gradient every 500'.

Pressure @ 3000' = 404 psig. Hydrotest tubing to 7000# in hole - test good. RIH with tubing, pump &amp; rods. PWOP.

1-Oct-10 POOH with rods and pump. Changed out pump. RIH with pump and rods. PWOP.

28-Oct-10 POOH with rods and pump. RIH pump and rods. PWOP.

2980'-91'

2994'-99'

3004'-11'

3016'-38'

3042'-52'

3058'-62'

3090'-3100'

3112'-36'

3141'-46'

## Surface Csg

Hole Size: 11 in

Csg. Size: 8 5/8 in

Set @: 1140 ft

Sxs Cmt: 700

Circ: Yes

TOC @: surf

TOC by: circ

## Production Csg

Hole Size: 7 7/8 in

Csg. Size: 5 1/2 in

Set @: 3410 ft

Sxs Cmt: 400

Circ: No

TOC @: 2240 f/ surf

TOC by: TS

7-R @ 3210'

Fill @ 3220'

TOC @ 3335'

CIBP @ 3370'

PBTD: 3335 ft  
TD: 3535 ft

OH ID 4 3/4 in

Queen @ 3560'

PREPARED BY:

Larry S. Adams

Domingo Carrizales

UPDATED:

15-Nov-10

**Cooper Jal Unit 141  
30-025-11292  
Resaca Operating Company  
June 2, 2011  
Conditions of Approval**

**NOTE: IN FUTURE, OPERATOR TO INCLUDE BEFORE/AFTER DIAGRAMS.**

- 1. Surface disturbance beyond the originally approved pad must have prior approval.**
- 2. Closed loop system required.**
- 3. Operator to have H2S monitoring equipment on location.**
- 4. A minimum of a 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.**
- 5. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.**
- 6. Operator to submit subsequent sundry with well test results when work is complete. Include final well bore schematic.**
- 7. Work to be completed by December 31, 2011.**

**WWI 060211**