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Form 3160-3
(April 2004)

MAR 18 2011

HOBBSON

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

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
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator Resaca Operating Company

3a. Address
1331 Lamar, Suite 1450 Houston, TX 77010

3b. Phone No. (include area code)
432-580-8500

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

2150' FSL & 50' FWL
Sec. 19, T24S, R37E

5. Lease Serial No.

LC-063965-032715

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

Cooper Jal Unit- NM 070926X

8. Well Name and No.

Cooper Jal Unit #402

9. API Well No.

30-025-32292

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 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 and
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Stimulate Perfs w/
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	Foam Frac

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 recompleate 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 recompleation 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.) MIRU Pulling Unit and Above Ground Steel Pit; NU BOP; POOH w/ rods and tubing.
- 2.) RIH w/ 4 1/4" Bit and drill collars on 2 7/8" work string.
- 3.) Clean out to 3750' TD.
- 4.) RU Service Company & prep to fracture stimulate well down work string.
- 5.) Foam Sand Frac Perfs 3006'-3658' w/ approximately 105,000# 16/30 Brady Brown Sand & 105,000# 16/30 resin coated Brady Brown Sand; plus 1.71 MMCF Nitrogen diverting with 130 Bio 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 3750' TD.
- 8.) RIH w/ 2 7/8" tubing. RIH w/ pump and rods.
- 9.) RDMO Pulling Unit, clean location, clean and dispose of pit fluids.

Change completion to SI. Queen plugged off
11-11-97 when CIBT + 35' amt set

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

Melanie Reyes

Title Engineer Assistant

Signature

Date

03/03/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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

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)

PETROLEUM ENGINEER

MAR 21 2011

WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC

LEASE NAME

Cooper Jal Unit

WELL NO.

402

STATUS:

Active

Oil

API#

30-025-32292

LOCATION: 2150 FSL & 50 FWL, Sec 19, T - 24S, R - 37E, Lee County, New Mexico

SPUD DATE: 11/06/93 TD 3750 KB 3,304' DF

INT. COMP. DATE: 02/06/94 PBTD 3365 GL 3,294'

GEOLOGICAL DATA

ELECTRIC LOGS:

GR-DLL-MSFL (11-11-93 Halliburton)

GR-CSL (11-12-93 Halliburton)

GR-SDL-DSN-CSNG (11-12-93 Halliburton)

GR-CCL (11-17-93)

CORES, DST'S or MUD LOGS:

HYDROCARBON BEARING ZONE DEPTH TOPS:

Yates @ 3003'

7-Rivers @ 3230'

Queen @ 3587'

CASING PROFILE

SURF. 8 5/8" - 24# WC-50, ST&C set @ 400' Cmt'd w/250 sxs - circ cmt to surface.

PROD. 5 1/2" - 15.5# WC-50, LT&C set @ 3750' Cmt'd w/1050 sxs - circ cmt to surface.

LINER. None

CURRENT PERFORATION DATA

CSG. PERFS:

OPEN HOLE:

16-Nov-93 Perf'd Langlie Mattix f/ 3426'-30', 3457'-63', 3483'-97', 3510'-13', 3518'-20', 3629'-33' & 3652'-58' w/ 2 spf (78 holes total).

16-Nov-93 Perf'd Jalmat f/ 3006'-15', 3020'-34', 3037'-39', 3046'-49', 3061'-68', 3071'-74', 3087'-3102', 3110'-12', 3117'-21', 3132'-41', 3149'-51', 3155'-58', 3168'-70', 3173'-75', 3178'-80', 3210'-17', 3223'-28', & 3277'-95' w/ 2 spf (218 holes total)

TUBING DETAIL

2/17/05

ROD DETAIL

2/18/05

Length (ft)

Detail

Length (ft)

Detail

0

KB

16

1 1/4" x 16' polish rod

2893

92

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

0

1 1/2" x 16' liner

3

1

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

4

1" Pony Rod

340

11

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

925

37 1" D steel rods

32

1

2 7/8" Super Max Blast Joint

1075

43 7/8" D steel rods

1

1

2 3/8" SN

925

37 3/4" D steel rods

4

1

2 7/8" Perf Sub

300

12 1 1/2" steel K Bars

16

1

3 1/2" Mud Anchor

20

1 2 1/2" x 1 1/4" RHR Pump w/ 1 1/4" x 8" GA

3289 btm

3265

WELL HISTORY SUMMARY

16-Nov-93 Perf'd Langlie Mattix (7-Rivers & Queen) f/ 3426'-0', 3457'-63', 3483'-97', 3510'-13', 3518'-20', 3629'-33', 3652'-58' w/ 2 spf (78 holes). Frac'd w/29,000 gals XLG 2% KCL carrying 136,000#s 16/30 brady sand. **24-hours Test: 1 bo, 92 blw & 35 Mcfg. Perf'd Jalmat (Yates) f/ 3006'-15', 20'-34', 37'-39', 46'-49', 61'-68', 71'-74', 3087'-3102', 10'-12', 17'-21', 32'-41', 49'-51', 3155'-58', 68'-70', 73'-75', 3178'-80', 3210'-17', 23'-28' & 3277'-95' w/2 spf (218 holes total) w/ 43,000 gals XLG 2% KCL carrying 220,000#s 12/20 sand.**

Pump tst 24 hours - 32 bopd, 183 blwpd, & 11 Mcfgpd. Commingled all perfs: IP= 50 bopd, 367 blw, & 49 Mcfgpd.

28-Feb-94 Repair rod part. Replaced 1 3/4" rod and exchanged pump.

11-Apr-94 Replaced rod pump.

23-Sep-94 Relaced 1 jt 2 7/8" tbg and 51- 3/4" rod boxes.

7-Nov-94 Replaced broken 1 1/4" polish rod.

20-Dec-95 Replaced 1 jt 2 7/8" tbg.

7-May-96 Replaced 7 sinker bars, pump, & polish rod.

4-Jun-96 Repaired rod part. Replaced 40 - 7/8" rod boxes and rod pump.

12-Sep-96 Repaired rod part. Replaced all rods and pump.

27-Jan-97 Repaired rod part. Replaced 13 - 3/4" rods.

11-Nov-97 Set CIBP @ 3400' and dumped 35' of cmt on top. PBTD=3365'. Replaced pump & all rod boxes.

13-May-99 Replaced 1 1/2" polish rod liner.

19-Nov-02 POOH with rods and pump. Changed out rod string and pump to increase production.

23-Nov-02 Parted (box) @ 7/8" KD rod. Did not pull pump.

23-Dec-02 Tally out of hole with tubing string. Hydrotest in hole, busted 5 jts.

1-Mar-04 POOH with rods, pump, and tubing. Hydrotest tubing to 7000# - busted 2 joints (found holes in 5th jt above SN). RIH with pump and rods. PWOP.

11-Dec-04 POOH w/ rods & pump. Changed out 17 - 7/8" rods, 29 - 3/4" and 9 - 1" rod boxes due to rod wear. Hydrotest tubing in hole. Found 90th joint with hole, busted 3 joints. PWOP.

3-Feb-05 Parted 3/4" rod (body break) @ 81th rod. POOH & laid 43 - 7/8" and 42 - 3/4" rods due to severe pitting. PWOP.

17-Feb-05 POOH w/rods & pump. Scan tubing: 1 - Yellow, 12 - Blue, 57 - Green, 23 - Double Green, & 10 - Red. Replaced 33 joints. PWOP.

Surface Csg

Hole Size: 12 1/4 in

Csg. Size: 8 5/8 in

Set @: 400 ft

Sxs Cmt: 250

Circ: Yes

TOC @: surf

TOC by: circ

Production Csg.

Hole Size: 7 7/8 in

Csg. Size: 5 1/2 in

Set @: 3750 ft

Sxs Cmt: 1050

Circ: Yes

TOC @: surface

TOC by: circ.

PBTD: 3365 ft

TD: 3750 ft

PREPARED BY:

Larry S. Adams

Domingo Carrizales

UPDATED:

03-Mar-05