

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

RECEIVED  
MAR 18 2011  
HOBBSOCD

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.*

<b>SUBMIT IN TRIPLICATE- Other instructions on reverse side.</b>		7. If Unit or CA/Agreement, Name and/or No. <b>Cooper Jal Unit- NM 070926X</b>
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. <b>Cooper Jal Unit #412</b>
2. Name of Operator <b>Resaca Operating Company</b>		9. API Well No. <b>30-025-32892</b> <b>SI</b>
3a. Address <b>1331 Lamar, Suite 1450 Houston, TX 77010</b>	3b. Phone No. (include area code) <b>432-580-8500</b>	10. Field and Pool, or Exploratory Area <b>Jalmat; Tansill-Yates-7Rivers</b>
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>980' FSL &amp; 225' FEL Sec. 24, T24S, R36E</b>		11. County or Parish, State <b>Lea, NM</b>

**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 <b>Clean Out and Stimulate Perfs w/ Foam Frac</b>
	<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 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 3/4" Bit and drill collars on 2 7/8" work string.
- 3.) Clean out to 3410' PBTD.
- 4.) RU Service Company & prep to fracture stimulate well down work string.
- 5.) Foam Sand Frac Perfs 3016'-3283' 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 3410' PBTD.
- 8.) RIH w/ 2 7/8" tubing. RIH w/ pump and rods.
- 9.) RDMO Pulling Unit, clean location, clean and dispose of pit fluids.

*Report under SI Completion. Queen plugged off 12-12-97 below CIBP + 35' emil.*

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) <b>Melanie Reyes</b>		Title <b>Engineer Assistant</b>
Signature <i>[Signature]</i>		Date <b>03/03/2011</b>

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by <i>[Signature]</i>	Title <b>SEPS</b>	Date <b>3-13-11</b>
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 <b>CPO</b>	

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**

## WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC		LEASE NAME <b>Cooper Jal Unit</b>		WELL NO. <b>412</b>																																																
		STATUS: <b>Active</b>	Oil	API# <b>30-025-32892</b>																																																
<b>LOCATION:</b> 980 FSL & 225 FEL, Sec 24, T - 24S, R - 36E, Lee County, New Mexico <b>SPUD DATE:</b> 05/19/95 <b>TD</b> 3800 <b>KB</b> 3,310' <b>DF</b> <b>INT. COMP. DATE:</b> 06/13/95 <b>PBTD</b> 3410 <b>GL</b> 3,295'																																																				
<b>Surface Csg</b> Hole Size: 12 1/4 in Csg. Size: 8 5/8 in Set @: 406 ft Sxs Cmt: 250 Circ: Yes TOC @: surf TOC by: circ		<b>ELECTRIC LOGS:</b> GR-DLL-MSFL-CSL (5-25-95 Halliburton) GR-CSNG-SDL-DSN (5-25-95 Halliburton) GR-CCL (5-28-95 Halliburton)  <b>GEOLOGICAL DATA</b> Yates @ 3002'      7-Rivers @ 3230'      Queen @ 3628'  <b>CASING PROFILE</b> <b>SURF.</b> 8 5/8" - 24#, WC-50, ST&C set@ 406'. Cmt'd w/250 sxs - circ cmt to surface. <b>PROD.</b> 5 1/2" - 15.5#, WC-50, LT&C set@ 3786' Cmt'd w/1179 sxs - circ cmt to surface. <b>LINER.</b> None  <b>CURRENT PERFORATION DATA</b> CSG. PERFS: 29-May-95 Perf'd LM f/ 3476 - 90', 3508 - 13', 3553 - 57', 3586 - 91', & 3625'-28' w/ 4 spf (124 holes total) 29-May-95 Perf'd Jalmat f/ 3086'-3100' w/ 4 spf (56 holes total) 13-Sep-96 Perf'd Jalmat f/ 3016'-27', 3031'-36', 3046'-74', 3131'-42', 3145 - 51', 3173 - 77', & 3276 - 83', w/ 4 spf (316 holes total)																																																		
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">TUBING DETAIL      11/17/06</th> <th colspan="2" style="text-align: left;">ROD DETAIL      11/17/06</th> </tr> <tr> <th style="text-align: left;">Length (ft)</th> <th style="text-align: left;">Detail</th> <th style="text-align: left;">Length (ft)</th> <th style="text-align: left;">Detail</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>KB</td> <td>18</td> <td>1 26' x 1 1/4" polish rod w/ 7/8" pin</td> </tr> <tr> <td>3179</td> <td>92 2 7/8" 6.5#, J-55, 8rd EUE tbg.</td> <td>0</td> <td>1 1 1/4" x 1 1/2" x 14' liner</td> </tr> <tr> <td>3</td> <td>1 5 1/2" x 2 7/8" TAC w/ 18,000# tension</td> <td>4</td> <td>1 4' - 1" pony rod</td> </tr> <tr> <td>300</td> <td>10 2 7/8" 6.5#, J-55, 8rd EUE tbg.</td> <td>925</td> <td>37 1" D-90 steel rods</td> </tr> <tr> <td>1</td> <td>1 2 7/8" SN</td> <td>1175</td> <td>47 7/8" D-90 steel rods</td> </tr> <tr> <td>31</td> <td>1 3 1/2" Mud Anchor</td> <td>1025</td> <td>41 3/4" D-90 steel rods</td> </tr> <tr> <td>3514</td> <td>btm</td> <td>150</td> <td>6 1 1/2" sinker bars</td> </tr> <tr> <td></td> <td></td> <td>20</td> <td>1 2 1/2" x 1 1/2" X 20' HVRC rod pump</td> </tr> <tr> <td></td> <td></td> <td>0</td> <td>1 1 1/4" x 8' gas anchor</td> </tr> <tr> <td></td> <td></td> <td>3317</td> <td>btm</td> </tr> </tbody> </table>					TUBING DETAIL      11/17/06		ROD DETAIL      11/17/06		Length (ft)	Detail	Length (ft)	Detail	0	KB	18	1 26' x 1 1/4" polish rod w/ 7/8" pin	3179	92 2 7/8" 6.5#, J-55, 8rd EUE tbg.	0	1 1 1/4" x 1 1/2" x 14' liner	3	1 5 1/2" x 2 7/8" TAC w/ 18,000# tension	4	1 4' - 1" pony rod	300	10 2 7/8" 6.5#, J-55, 8rd EUE tbg.	925	37 1" D-90 steel rods	1	1 2 7/8" SN	1175	47 7/8" D-90 steel rods	31	1 3 1/2" Mud Anchor	1025	41 3/4" D-90 steel rods	3514	btm	150	6 1 1/2" sinker bars			20	1 2 1/2" x 1 1/2" X 20' HVRC rod pump			0	1 1 1/4" x 8' gas anchor			3317	btm
TUBING DETAIL      11/17/06		ROD DETAIL      11/17/06																																																		
Length (ft)	Detail	Length (ft)	Detail																																																	
0	KB	18	1 26' x 1 1/4" polish rod w/ 7/8" pin																																																	
3179	92 2 7/8" 6.5#, J-55, 8rd EUE tbg.	0	1 1 1/4" x 1 1/2" x 14' liner																																																	
3	1 5 1/2" x 2 7/8" TAC w/ 18,000# tension	4	1 4' - 1" pony rod																																																	
300	10 2 7/8" 6.5#, J-55, 8rd EUE tbg.	925	37 1" D-90 steel rods																																																	
1	1 2 7/8" SN	1175	47 7/8" D-90 steel rods																																																	
31	1 3 1/2" Mud Anchor	1025	41 3/4" D-90 steel rods																																																	
3514	btm	150	6 1 1/2" sinker bars																																																	
		20	1 2 1/2" x 1 1/2" X 20' HVRC rod pump																																																	
		0	1 1 1/4" x 8' gas anchor																																																	
		3317	btm																																																	
<b>WELL HISTORY SUMMARY</b>  ##### Perf'd 7-Rivers f/ 3476 - 90' w/ 4 spf (56 holes total). Frac'd w/38,000 gals XLG 2% KCL carrying 162,000#s 16/30 brady sand last 15% of sand RC. Perf'd Jalmat f/ 3476'-90', 3508'-13', 53'-57', 3586'-91', & 3625'-28' with 4 spf (125 holes). Acdd'd with 2,000 gals 7 1/2% NEFE HCL. Frac w/ 38,000 gals XLG 2% KCL carrying 162,000#s 16/30 mesh sand. Pump test perfs 3476'-3628', recovering 23 bw & 2 Mcf in 23 hrs. Perf f/ Yates f/ 3086'-3100' with 4 spf (56 holes). Frac'd with 43,000 gals carrying 220,000#s sand. Commingled all perfs - gals carrying 220,000#s sand. Commingled all perfs. <b>IP= 62 bopd, 119 bwpd, and 21 Mcfgpd (pumping).</b> 13-Sep-96 Perf'd Yates f/ 3016'-27', 3031'-36', 3046'-74', 3131'-42', 3145'-51', 3173'-77', & 3276'-83' with 4 spf (316 holes). Acdd'd perfs with 3,000 gals 15% NEFE HCL dropping 280 7/8" RCN ball sealers. AIR=8 bpm @ 1500 psi. ISIP=vacuum. Isolated and acdd'd perfs 3131'-3283' with 3,000 gals 15% NEFE HCL dropping 190 7/8" RCN ball sealers. AIR=8.1 bpm @ 1700 psig. ISIP= vacuum. C/O with bailer from 3590 - 3717' (127"). <b>AFTER WO: 41 bopd, 250 bwpd, &amp; 12 Mcfgpd.</b> 12-Dec-97 Lost 4 1/2" gauge ring. Pushed to 3526' but could not recover. Set CIBP @ 3445' on wireline and dumped 35' of cmt on top. <b>PBTD= 3410'. T/A'd Langlie Mattix.</b> Acdd'd perfs 3016 - 3100' with 2,000 gals 15% NEFE HCL thru Sonic Hammer tool. AIR= 3.9 bpm @ 1260'. <b>After WO: 36 bopd, 216 bwpd, &amp; 9 Mcfgpd.</b> 07-Oct-98 Changed out all rod boxes and pump. 09-Jan-04 POOH w/rods, pump, & tubing. RIH w/new string 101 - 2 7/8" tbg. Set TAC w/ 12,000#. RIH w/ pump & rods. PWOP. 04-Jun-04 POOH with rods and pump. Scanalog 2 7/8" tubing out of hole: found 30 yellow, 44 blue, 20 green, and 7 red band joints. RIH with 20 new, 30 yellow, and 44 blue band joints of 2 7/8" tubing. RIH with pump and rods. Replace 6 - 1" boxes, 62 - 7/8" slim hole boxes to 7/8" full size boxes, and 17 - 3/4" slim hole to 3/4" full size boxes. PWOP. 19-Jul-05 POOH with rods and pump. Hydrotest tubing in hole - found hole on joint above SN. PWOP. 29-Nov-05 POOH w/rods, pump & tubing. Hydrotest tubing in hole to 6000# - found hole on jt above SN. RIH w/pump & rods. PWOP. 17-Nov-06 POOH w/rods, pump, & tbg. Tagged @ 3393'. Hydrotest tbg to 7000# - found hole on jt above SN. RIH w/pump & rods. PWOP. 21-Jan-10 Well parted at polish rod. Replaced polishe rod and PWOP. 23-Aug-10 POOH with rods, pump and tubing. Hydrotest tubing to 7000 psig - found hole on joint above SN. Repaired Saddle Bearing. PWOP.																																																				
<b>Production Csg.</b> Hole Size: 7 7/8 in Csg. Size: 5 1/2 in Set @: 3786 ft Sxs Cmt: 1179 Circ: Yes TOC @: surface TOC by: circ		Yates @ 3002' 3016'-27' 3031'-36' 3046'-74' 3086'-3100' 3131'-42' 3145'-51' 3173'-77' 7-Rivers @ 3230' 3276'-83'  TOC @ 3410' CIBP @ 3445' 3476'- 90' 3508'-13' TOF @ 3,526' 4 1/2" Gauge Ring 3553'-57' 3586'-91' Queen @ 3628' 3625'-28'  PBTD: 3410 ft TD: 3800 ft Csg at 3786'																																																		