

District I  
1625 N. French Dr., Hobbs, NM 88240

District II  
1301 W. Grand Avenue, Artesia, NM 88210

District III  
1000 Rio Brazos Road, Aztec, NM 87410

District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-101  
June 16, 2008

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Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

<sup>1</sup> Operator Name and Address Resaca Operating Company 1331 Lamar St. Ste. 1450, Houston, TX 77010		<sup>2</sup> OGRID Number 263848
		<sup>3</sup> API Number 30 - 025-09649
<sup>5</sup> Property Code 306443	<sup>6</sup> Property Name Cooper Jal Unit	<sup>7</sup> Well No. 230
<sup>9</sup> Proposed Pool 1 Jalmat; Tansill-Yates-7Rivers (Oil) 33820		<sup>10</sup> Proposed Pool 2

<sup>7</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	25	24S	36E		1650	North	2310	West	Lea

<sup>8</sup> Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Additional Well Information

<sup>11</sup> Work Type Code E	<sup>12</sup> Well Type Code I	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Code P	<sup>15</sup> Ground Level Elevation 3302'
<sup>16</sup> Multiple	<sup>17</sup> Proposed Depth 3226'	<sup>18</sup> Formation 7 Rivers	<sup>19</sup> Contractor	<sup>20</sup> Spud Date

<sup>21</sup> Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
13"	10 3/4"	42	275'	100	Surface
9 7/8"	5 1/2"	15	2946'	400	1950'
4 3/4"	4"	46	2900'-3226'	620	circ. cmt out top of liner

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and the proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

1. Re-enter CJU #230 (This well was plugged 3/08/2001).
2. Drill out cement plugs at surface-450'; test squeeze perfs @ 325' & 400' to 500 psig.
3. Drill out cement plugs 1050'-1300', 2300'-2600', 2865'-2900' & CIBP @ 2900'; Clean out 4" liner from 2900' to 3226'.
4. Perf Jalmat; Yates (3000'-14', 3016'-45', 3060'-77', and 3081'-3104', 3110'-17', 3120'-37', 3140'-46', 3148'-56', 3174'-84' & 3184'-95').
5. Stimulate Perfs 2983'-3226' with approximately 16,000 gallons 15% Star Acid (90/10 Acid/Xylene); Divert with 20,000#'s salt.
6. RDMO Pulling Unit, clean location, clean and dispose of pit fluids.

This well will be drilled using a Closed Loop System. C-144 will be filed accordingly.

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name: Melanie Reyes

Title: Engineer Assistant

E-mail Address: melanie.reyes@resacaexploitation.com

Date: 3/01/2011

Phone: (432) 580-8500

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

APR 06 2011

Expiration Date:

Oil Conservation Division

Conditions of approval : Approval for drilling/workover ONLY-- CANNOT produce Downhole Commingled until DHC is approved in Santa Fe.

Condition of Approval: Approval to recompleat and Test each zone for injection, but cannot inject into wellbore until OCD Santa Fe approves injection order.

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State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised July 16, 2010  
Submit one copy to appropriate  
District Office  
☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-09649		<sup>2</sup> Pool Code 33820		<sup>3</sup> Pool Name Jalmat; Tansill-Yates-7Rivers	
<sup>4</sup> Property Code 306443		<sup>5</sup> Property Name Cooper Jal Unit			<sup>6</sup> Well Number 230
<sup>7</sup> OGRID No. 263848		<sup>8</sup> Operator Name Resaca Operating Company			<sup>9</sup> Elevation 3302'

### <sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	25	24S	36E		1650	North	2310	West	Lea

### <sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<sup>16</sup> 	<sup>17</sup> <b>OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  Signature 3/01/2011 Date Melanie Reyes Printed Name melanie.reyes@resacaexploitation.com E-mail Address
	<sup>18</sup> <b>SURVEYOR CERTIFICATION</b> I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
	Date of Survey Signature and Seal of Professional Surveyor:
	Certificate Number

## WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC		LEASE NAME	Cooper Jal Unit		WELL NO.	230
		STATUS:	P&A'd	(3-8-01)	Oil	API# 30-025-09649
		LOCATION:	1650 FNL & 2310 FWL, Sec 25, T - 24S, R - 36E, Lee County, New Mexico			
		SPUD DATE:	TD	3226	KB	3,307' DF
		INT. COMP. DATE:	02/06/51	PBTD	3226	GL 3,302'
		GEOLOGICAL DATA				
		ELECTRIC LOGS:				
		GR-N (11-8-79 WELEX)				
		HYDROCARBON BEARING ZONE DEPTH TOPS:				
		Yates @ 2998'      7-Rivers @ 3215'      Queen @ 3585'				
		CASING PROFILE				
		SURF. 10 3/4" - 42#, J-55 set @ 275' Cmt'd w/100 sxs - circ cmt to surf.				
		PROD. 5 1/2" - 15#, J-55 set @ 2946' Cmt'd w/400 sxs - TOC @ 1950' from surface by calculation.				
		LINER 4" - 10.46#, J-55, FJ csg set from 3226 - 2900'. Cmt'd w/620 sxs - circ cmt out TOL.				
		CURRENT PERFORATION DATA				
		CSG. PERFS: OPEN HOLE : 2946 - 3226 original OH isolated w/4" liner				
		5-Nov-79 Perf'd Yates f/ 2976', 2982', 2986', 2991', 3002', 3004', 3027', 3033', 3041', 3043', 3045' 3069', 3071', 3089', 3092' 3097', 3110', 3128', 3132', 3142' 3180', 3184', 3191', 3195' w/ 1 spf (24 holes total)				
		TUBING DETAIL				
		ROD DETAIL				
		WELL HISTORY SUMMARY				
		6-Feb-51 Initial completion interval: (Yates OH) 2946 - 3186' trt (3030 - 3183') w/ 250 qts nitro. IP = 60 bopd, 0 bwopd, and 56 Mcf/gpd (pumping).				
		6-Jul-79 C/O fill from 3031 - 3183'. Deepened to 3226'.				
		5-Nov-79 C/O f/3102'-3226'. Installed 4" liner. Perf'd (Yates) 2976' - 3195' w/1 spf (24 holes). Acdd'd perfs w/4,500 gals 15% HCl and 25 BSs in 3 stages. AIR=2.6 bpm @ 1800 psi. Frac'd w/51,000 gals gel wtr carrying 36,000#s 20/40 sand & 18,000#s 12/20 sd in 3 stages. AIR=20 bpm @ 3200#. After WO: 24 bopd, 52 bwopd, & GOR=740				
		7-Dec-93 Replaced 1 bad jt and 2 bad collars in 2 3/8" tbg string. Ran new pmp and rods. Returned to production.				
		22-Jun-99 Set CIBP @ 2900'. Dmp 35' cmt on top of CIBP. PBTD @ 2865'. Circ pkr. Fluid. Tst csg. Would not tst. Well TA'd.				
		8-Mar-01 Tag PBTD @ 2875'. Circ well w/ gelled brine mud. Spot 25 sxs cmt from 2600'-2400'. WOC. Tag TOC @ 2300'. Perf'd 6 holes @ 1300'. Sqz'd 50 sxs cmt into perfs @ 1300 ft @ 1 1/2 bpm & 1300#. SIP=1050 psi. WOC. Tag TOC @ 1050'. Tst csg to 1700 psi. OK. Perf'd 6 holes @ 400'. Pressured to 1700#. No pmp in rate. Perf'd 6 holes @ 325'. Pressured to 1700 psi No pmp in rate. Spotted 50 sxs cmt from 450' to surf. Removed wellhead. Cap casing. Installed Cap casing. Installed Dry hole marker & cleaned location. NMOCD notified - well P&A'd 3-8-2001.				
<p><b>Surface Csg</b></p> <p>Hole Size: 13 in</p> <p>Csg. Size: 10 3/4 in</p> <p>Set @: 275 ft</p> <p>Sxs Cmt: 100</p> <p>Circ: Yes</p> <p>TOC @: surf</p> <p>TOC by: circ</p>		<p>Cmt plug surface - 450'</p> <p>50 sxs cmt</p> <p>Perf'd 6 holes @ 325'</p> <p>Perf'd 6 holes @ 400'</p> <p>9.5 ppg gel brine</p> <p>Cmt plug 1050 - 1300'</p> <p>50 sxs sqz</p> <p>Perf'd 6 holes @ 1300'</p> <p>9.5 ppg gel brine</p> <p>TOC @ 1950' By Calc.</p> <p>Cmt plug 2600 - 2300'</p> <p>25 sxs cmt</p> <p>9.5 ppg gel brine</p> <p>TOC @ 2865'</p> <p>CIBP @ 2900'</p> <p>Yates @ 2998'</p> <p>2976 - 3195'</p> <p>7-R @ 3215'</p> <p>Original OH Interval 2946 - 3226</p> <p>OH ID ### in</p> <p>PBTD: 3226 ft</p> <p>TD: 3226 ft</p>				
<p><b>Production Liner</b></p> <p>Hole Size: 4 3/4 in</p> <p>Csg. Size: 4 in</p> <p>Top: 2900 ft</p> <p>Btm: 3226 ft</p> <p>Sxs Cmt: 620</p> <p>Circ: Yes</p> <p>TOC @: TOL</p> <p>TOC by: circ.</p>						
<p><b>Production Csg.</b></p> <p>Hole Size: 9 7/8 in</p> <p>Csg. Size: 5 1/2 in</p> <p>Set @: 2946 ft</p> <p>Sxs Cmt: 400</p> <p>Circ: No</p> <p>TOC @: 1950 f/ surf.</p> <p>TOC by: calc.</p>						

PREPARED BY:

Larry S. Adams

UPDATED:

30-Apr-02