

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

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

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Submit to appropriate District Office

☐ AMENDED REPORT

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

¹ Operator Name and Address Resaca Operating Company 1331 Lamar St. Ste. 1450, Houston, TX 77010		² OGRID Number 263848
		³ API Number 30 - 025-09642
³ Property Code 306443	³ Property Name Cooper Jal Unit	⁶ Well No. 148
⁹ Proposed Pool 1 Jalmat; Tansill-Yates-7Rivers (Oil) 33820		¹⁰ Proposed Pool 2 Langlie Mattix; 7Rivers-Queen-Grayburg 37240

⁷ Surface Location

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

⁸ 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

¹¹ Work Type Code E	¹² Well Type Code I	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3318'
¹⁶ Multiple	¹⁷ Proposed Depth 3550'	¹⁸ Formation 7 Rivers	¹⁹ Contractor	²⁰ Spud Date 3/15/2011

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12 1/4"	8 5/8"	28	279'	135	Surface
7 7/8"	5 1/2"	14	3465'	450	Unknown
	DV Tool @ 1209'				

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

1. Re-enter CJU #148 (This well was plugged 3/21/2011).
2. Drill out cement plugs at surface, 145'-400', 1400'-1145', 2700'-2975', CIBP @ 2976', cement @ 3319' and CIBP @ 3354'.
3. Clean out OH 3465'-3550' TD.
4. Perf Jalmat; Yates (3182'-90', 3192'-95', 3220'-33', and 3236'-42') and Upper 7 Rivers (3248'-52', 3290'-3307', 3360'-65', 3380'-83', 3431'-34' and 3439'-42').
5. Stimulate Perfs 3018'-3442' and OH 3465'-3550' with approximately 12,000 gallons 15% HCl (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.

Permit Expires 2 Years From Approval
Date Unless Drilling Underway

Re-Entry

²³ 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: 2/24/2011

Phone: (432) 580-8500

OIL CONSERVATION DIVISION

Approved by:

Denied

DENIED BY Oil Conservation Division
On 3/7/11 see attached letter
APD Reviewed by dm Kx
For more information on this matter, please call
Donna Mull @ (575) 393-6161 ext 115 or
email donna.mull@state.nm.us

DENIED because of Financial assurance per
Rule 19.14.5.9(A)(1).

act

WELLBORE SCHEMATIC AND HISTORY			
CURRENT COMPLETION SCHEMATIC		LEASE NAME Cooper Jal Unit	
STATUS: P&A'd (3-21-01) Oil		WELL NO. 148	
SPUD DATE: 03/06/54 TD		API# 30-025-09642	
INT. COMP. DATE: 03/28/54 PBD		LOCATION: 2310 FSL & 2310 FEL, Sec 24, T - 24S, R - 36E; Lee County, New Mexico	
ELECTRIC LOGS:		GEOLOGICAL DATA	
GR-N from 50 - 3553' (3-28-54 Schlumberger)		CORES, DST'S or MUD LOGS:	
HYDROCARBON BEARING ZONE DEPTH TOPS:		Cored 3005 - 3230': Avg Por.=21.1% Avg Perm = 37 md, Avg Sw=38.9%	
Yates @ 3018' 7-Rivers @ 3238' Queen @ 3615'		Casing Profile	
SURF. 8 5/8" - 28#, J-55 set @ 279' Cmt'd w/135 sxs - circ cmt to surf.		PROD. 5 1/2" - 14#, J-55 set @ 3465' Cmt'd w/300 sxs - TOC @ 1885' from surf. DV tool @ 1209' - pmp 150 sxs - TOC unknown	
LINER None		CURRENT PERFORATION DATA	
CSG. PERFS:		OPEN HOLE : 3465 - 3550'	
09-Aug-46 Perf'd 7-Rivers f/ 3465 - 3550'		25-Aug-59 Perf'd (Yates) w/ 2 spf 3222-30', 3235-39', & 3296 - 3306' (44 holes total)	
18-Jul-91 CMT SQZ'D: 3222-30', 3235-39', & 3296 - 3306' w/2 spf (44 holes total)		14-Oct-93 Perf'd Yates w/ 2 spf (.56" dia hole -120 deg phasing) 3018'-3042', 3045' -54', 3059'-3066', 3070'-89', 3100'-14', 3127'-42' & 3146'-74', (232 holes total)	
TUBING DETAIL		ROD DETAIL	
WELL HISTORY SUMMARY			
<p>09-Aug-46 Initial completion interval: 3465 - 3550' (7 RVRS/QUEEN OH). Frac'd w/ 4,000 gals lse oil & 6,000#'s sand. IP= 227 bopd, 0 bwpd, & 194 Mcfgpd (flowing)</p> <p>15-Oct-56 Refrac'd OH w/ 19,000 gals lse oil & 33,000#'s sand.</p> <p>25-Aug-59 Set CIBP @ 3375' & dmp'd 5 sxs cmt on top. Perf'd (Yates) intervals w/ 2 spf 3222-30', 3235-39', & 3296 - 3306' (44 holes total). Frac'd perfs w/15,000 gals lse oil & 23,300#'s sand.</p> <p>14-Jun-71 CONVERTED TO LANGLEIE MATTIX INJECTOR: Drld out CIBP @ 3375' & C/O to TS @ 3540'. Ran pkr on 2 3/8" CL tbg. set pkr @ 3391'. Initiated injection. Note- Yates perfs are not sqz'd & above pkr.</p> <p>01-Oct-79 SI Well. Discovered 350 psi annulus pressure. Bled off pressure in 3 days.</p> <p>26-Nov-79 Set BP @ 3350' & cmt sqz'd perf 3222 - 3306' w/ 200 sxs @ 1000 psi. D/O & tst sqz to 1000 psi. OK. D/O CIBP and C/O open hole from 3465 - 3550'. RIH with pkr on 2 3/8" CL tbg. Set pkr @ 3391' and placed well on injection.</p> <p>14-Oct-84 Acdz'd OH w/1,000 gals</p> <p>11-Mar-86 C/O & side-jet wash OH. Acdz OH w/2,000 gals. Found csg leaks @ 170' & old sqz'd perfs 3222'-3306'. Perf'd 2 holes @ 260' & sqz'd w/ 250 sxs - circ cmt to surface. Sqz'd cmt into old perfs 3222 - 3306' w/ 250 sxs. D/O and tst csg (0-3400') to 600 psig. Lost 20 psig in 30 minutes. Returned well to injection.</p> <p>25-Feb-88 Tst csg to 400 psi. Good tst. Acdz OH w/ 3000 gals. Did not C/O. Ran new flourline tbg. Returned well to injection. Step rate tst indicates frac pressure (surface) is 1020 psi.</p> <p>10-Mar-88 Failed MIT. Shut-in well. (Sqz'd perfs 3222 - 3306' leaking)</p> <p>18-Jul-91 Set CIBP @ 3354' & dmp 35' cmt on top. Perf w/ 2 spf (.56" dia hole -120 deg phasing) 3018'-3042', 3045' -54', 3059'-3066', 3070'-89', 3100'-14', 3127'-42', & 3146'-74' (232 holes total). Frac w/45,360 gals gel wtr carrying 184,140#'s 12/20 Brady sand & 40,900#'s 12/20 resin coated sand. AIR=34 bpm, PM=3800 - 2100 psi. ISIP=1600 psi. C/O sand f/ 3085'-3316'. Ran tubing pump and rods. After WO: 26 bopd, 286 bwpd, & 33 Mcfgpd.</p> <p>14-Oct-93 Set CIBP @ 2975' on WL. Circ well w/gelled brine. Spot 35 sxs cmt from 2975 - 2700'. WOC. Tag TOC @ 2680'. Perf 6 holes @ 1400'. Sqz 50 sxs cmt into perfs to 850 psi. WOC. Tag TOC @ 1145'. Perf 6 holes @ 400'. Sqz 150 sxs cmt into perfs to 750 psig. WOC. Tag TOC @ 145'. Spot cmt plug from 30' to surface. Cut off wellhead and cap 5 1/2" casing. Installed Dry hole marker & cleaned location. NMOCD notified - well P&A'd 3-21-2001.</p>			
PREPARED BY: Larry S. Adams UPDATED: 30-Apr-02			

Surface Csg

Hole Size: 12 1/4 in

Csg. Size: 8 5/8 in

Set @: 279 ft

Sxs Cmt: 135

Circ: Yes

TOC @: surf

TOC by: circ

Production Csg.

Hole Size: 7 7/8 in

Csg. Size: 5 1/2 in

Set @: 3465 ft

Sxs Cmt: 450

Circ: No

TOC @: unknown

TOC by:

OH Interval

3465 - 3550'

Queen @ 3615'

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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

RECEIVED

FEB 25 2011

HOBBSOCD

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-09642	² Pool Code 33820/37240	³ Pool Name Jalmat/ Langlie Mattix
⁴ Property Code 306443	⁵ Property Name Cooper Jal Unit	⁶ Well Number 148
⁷ OGRID No. 263848	⁸ Operator Name Resaca Operating Company	⁹ Elevation 3318'

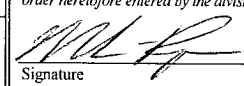
¹⁰ Surface Location

UL or lot no. J	Section 24	Township 24S	Range 36E	Lot Idn	Feet from the 2310	North/South line South	Feet from the 2310	East/West line East	County Lea
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¹¹ 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
¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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.

<div style="position: relative; height: 400px;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%);"> <div style="position: relative; width: 100px; height: 100px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black;"></div> </div> </div> </div>	¹⁷ OPERATOR CERTIFICATION 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. <div style="display: flex; justify-content: space-between;"> <div>  Signature </div> <div>2/24/2011 Date</div> </div> <div style="margin-top: 10px;"> Melanie Reyes Printed Name </div> <div style="margin-top: 10px;"> melanie.reyes@resacaexploitation.com E-mail Address </div>	
	¹⁸ SURVEYOR CERTIFICATION 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	