

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

RECEIVED

Submit to appropriate District Office

MAR 07 2011

☒ AMENDED REPORT

HOBBSOCD

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
⁵ Property Code 306443	⁵ 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 4D	¹² Well Type Code I	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3318'
¹⁶ Multiple	¹⁷ Proposed Depth 3720'	¹⁸ Formation Queen	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.

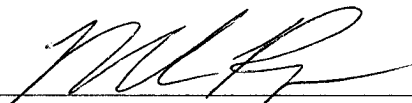
1. Re-enter CJU #148 (This well was plugged 3/21/2001).
2. Drill out cement plugs at surface, 145'-400', 1400'-1145', 2700'-2975', CIBP @ 2976', cement @ 3319' and CIBP @ 3354'.
3. Clean out OH 3465'-3550' TD. Deepen well to 3720' and clean out . *
4. Perf Jalmat; Yates (3182'-90', 3192'-95', 3220'-33', 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'-3720' 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.

*Amended #17, #18 & line 3 & line 5 of proposed program summary to indicate deepening of well to 3720'

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: 3/4/2011

Phone: (432) 580-8500

OIL CONSERVATION DIVISION

Approved by:


PETROLEUM ENGINEER

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 recomplete and Test each zone for injection, but cannot inject into wellbore until OCD Santa Fe approves injection order.

16				<div data-bbox="1133 991 1484 1021">17 OPERATOR CERTIFICATION</div> <div data-bbox="1066 1021 1521 1232"><i>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.</i></div> <div data-bbox="1066 1232 1521 1281"><div data-bbox="1066 1232 1302 1281"></div><div data-bbox="1382 1240 1463 1261">2/24/2011</div></div> <div data-bbox="1066 1281 1521 1310"><div data-bbox="1066 1281 1141 1310">Signature</div><div data-bbox="1390 1281 1433 1310">Date</div></div> <div data-bbox="1066 1336 1185 1355">Melanie Reyes</div> <div data-bbox="1066 1355 1170 1376">Printed Name</div> <div data-bbox="1066 1410 1338 1430">melanie.reyes@resacaexploitation.com</div> <div data-bbox="1066 1430 1185 1451">E-mail Address</div>
		<div data-bbox="526 1447 605 1500">24</div>		<div data-bbox="1066 1485 1513 1521">18 SURVEYOR CERTIFICATION</div> <div data-bbox="1066 1525 1513 1666"><i>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.</i></div> <div data-bbox="1066 1715 1185 1740">Date of Survey</div> <div data-bbox="1066 1751 1390 1774">Signature and Seal of Professional Surveyor:</div> <div data-bbox="1066 1925 1206 1949">Certificate Number</div>
		<div data-bbox="613 1536 680 1591"></div>	<div data-bbox="826 1515 920 1551">2310'</div>	
		<div data-bbox="591 1774 628 1874">2310'</div>		

WELLBORE SCHEMATIC AND HISTORY					
CURRENT COMPLETION SCHEMATIC		LEASE NAME Cooper Jal Unit			
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Surface Csg</p> <p>Hole Size: 12 1/4 in</p> <p>Csg. Size: 8 5/8 in</p> <p>Set @: 279 ft</p> <p>Sxs Cmt: 135</p> <p>Circ: Yes</p> <p>TOC @: surf</p> <p>TOC by: circ</p> </div> <div style="width: 50%;"> <p>Cmt Plug 30'-surface 10 sxs</p> <p>9.5 ppg gelled brine</p> <p>Cmt Plug 145'-400' 150 sxs sqz'd</p> <p>Perf'd 6 holes @ 400'</p> <p>9.5 ppg gelled brine</p> <p>TOC @ unknown</p> <p>DV Tool @ 1209'</p> <p>Perf'd 6 holes @ 1400'</p> <p>9.5 ppg gelled brine</p> <p>TOC @ 1885' By Calc.</p> <p>Cmt Plug 1400'-1145' 50 sxs sqz'd</p> <p>Cmt Plug 2700 - 2975' 35 sxs</p> <p>CIBP @ 2976'</p> <p>Yates @ 3018'</p> <p>3018 - 3174'</p> <p>7-Rivers @ 3238'</p> <p>3222 - 3306' cmt sqz'd</p> <p>TOC @ 3319'</p> <p>CIBP @ 3354'</p> <p>OH Interval 3465 - 3550'</p> <p>OH IC 4 3/4 in Queen @ 3615'</p> </div> </div> <div style="margin-top: 20px;"> <p>Production Csg.</p> <p>Hole Size: 7 7/8 in</p> <p>Csg. Size: 5 1/2 in</p> <p>Set @: 3465 ft</p> <p>Sxs Cmt: 450</p> <p>Circ: No</p> <p>TOC @: unknown</p> <p>TOC by:</p> <p>PBTD: 3330 ft</p> <p>TD: 3550 ft</p> </div>		<p>STATUS: P&A'd (3-21-01) Oil</p> <p>WELL NO. 148</p> <p>API# 30-025-09642</p> <p>LOCATION: 2310 FSL & 2310 FEL, Sec 24, T - 24S, R - 36E, Lee County, New Mexico</p> <p>SPUD DATE: 03/06/54 TD 3550 KB 3,328' DF</p> <p>INT. COMP. DATE: 03/28/54 PBTD 3330 GL 3,318'</p>			
		<p>ELECTRIC LOGS:</p> <p>GR-N from 50 - 3553' (3-28-54 Schlumberger)</p>		<p>GEOLOGICAL DATA</p> <p>CORES, DST'S or MUD LOGS:</p> <p>Cored 3005 - 3230': Avg Por.=21.1% Avg Perm = 37 md, Avg Sw=38.9%</p>	
		<p>HYDROCARBON BEARING ZONE DEPTH TOPS:</p> <p>Yates @ 3018' 7-Rivers @ 3238' Queen @ 3615'</p>			
		<p>CASING PROFILE</p> <p>SURF. 8 5/8" - 28#, J-55 set@ 279' Cmt'd w/135 sxs - circ cmt to surf.</p> <p>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</p> <p>LINER None</p>			
<p>CURRENT PERFORATION DATA</p> <p>CSG. PERFS:</p> <p>09-Aug-46 Perf'd 7-Rivers f/ 3465 - 3550'</p> <p>25-Aug-59 Perf'd (Yates) w/ 2 spf 3222-30', 3235-39', & 3296 - 3306' (44 holes total)</p> <p>18-Jul-91 CMT SQZ'D: 3222-30', 3235-39', & 3296 - 3306' w/2 spf (44 holes total)</p> <p>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)</p> <p>OPEN HOLE : 3465 - 3550'</p>					
<p>TUBING DETAIL</p>		<p>ROD DETAIL</p>			
<p>WELL HISTORY SUMMARY</p> <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 LANGLIE 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.</p> <p>10-Mar-88 Step rate tst indicates frac pressure (surface) is 1020 psi.</p> <p>18-Jul-91 Failed MIT. Shut-in well. (Sqz'd perfs 3222 - 3306' leaking)</p> <p>14-Oct-93 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>16-Mar-01 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>					
<p>PREPARED BY: Larry S. Adams</p>		<p>UPDATED: 30-Apr-02</p>			