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 District I - (575) 393-6161  
 1625 N. French Dr., Hobbs, NM 88201  
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 District III - (505) 334-6178  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV - (505) 476-3460  
 1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico  
 Energy, Minerals and Natural Resources

Form C-103  
 Revised August 1, 2011

**HOBBS OCD**  
**MAR 15 2012**  
**RECEIVED**

OIL CONSERVATION DIVISION  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

WELL API NO. 30-025-11493
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/> FED <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No. 309574
7. Lease Name or Unit Agreement Name Langlie Jal Unit
8. Well Number 85
9. OGRID Number 263848
10. Pool name or Wildcat Langlie Mattix: 7Rivers-Queen-Grayburg
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3171' GL

**SUNDRY NOTICES AND REPORTS ON WELLS**  
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well  Gas Well  Other Injector

2. Name of Operator  
Resaca Operating Company

3. Address of Operator  
1331 Lamar Street, Suite 1450 Houston, TX 77010

4. Well Location  
 Unit Letter P : 660 feet from the South line and 660 feet from the East line  
 Section 8 Township 25S Range 37E NMPM Lea County

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

<b>NOTICE OF INTENTION TO:</b> PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/> OTHER: Locate casing leak & cement squeeze if necessary, Run MIT <input checked="" type="checkbox"/>	<b>SUBSEQUENT REPORT OF:</b> REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/> OTHER: <input type="checkbox"/>
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13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

**MIT FAILURE**

Objective: Locate casing leak & repair with cement squeeze if necessary. Run Mechanical Integrity Test.

- MIRU Pulling Unit & Above Ground Steel Pit
- Pressure Test casing to locate leak.
- Once leak is located, cement squeeze if necessary, w/ appropriate sacks of cement.
- Drill out cement & circulate well clean.
- Pressure Test casing to make sure casing repair was successful.
- Run Mechanical Integrity Test (Notify NMOCD- Hobbs 24 hrs. prior to test); Pull chart for NMOCD.
- RDMO Pulling Unit, clean location, clean & dispose of pit fluids. Place well on injection.

**BLM**

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Melanie Reyes TITLE Engineer Assistant DATE 3/14/2012

Type or print name Melanie Reyes E-mail address: melanie.reyes@resacaexploitation.com PHONE: (432) 580-8500

For State Use Only  
 APPROVED BY: Melanie Reyes TITLE Compliance Officer DATE 03-16-2012

Conditions of Approval (if any):  
 MAR 19 2012

**WELLBORE SCHEMATIC AND HISTORY**

LANGLIE JAL UNIT

<b>LEASE:</b> LJU <b>WELL:</b> 85 <b>API #:</b> 30-025-11493  <b>FIELD:</b> Langlie Mattix <b>LOCATION:</b> 8 25S 37E  LEA COUNTY, NM Directions to Location : 660 S 660 E	<b>RESERVOIRS</b> ANHYDRITE SALT YATES SEVEN RIVERS QUEEN  TOP OF PAY	<b>PERFORATIONS</b> TOP      BTM  see below		<b>CASING</b> SIZE    WT    GRD    CSA  see below				<b>SPUD DATE:</b> COMP DATE: 3/8/1996
		<b>TUBING</b> see below				<b>ELEVATIONS</b> KB: 3172 GL: 3171 DF: 3162		<b>UPDATED:</b> BY: KAS

**SURFACE CASING**

SIZE: 10  
 WT/GRD: 40#  
 WT/GRD:  
 CSA/Depth 708  
 SX: none  
 CIRC:  
 TOC:  
 HOLE SIZE:

**INTERMEDIATE CASING**

SIZE: 8 1/4  
 WT/GRD: 32#  
 WT/GRD:  
 CSA/Depth 1200  
 SX:  
 CIRC: 66  
 TOC:  
 HOLE SIZE:

**PRODUCTION CASING**

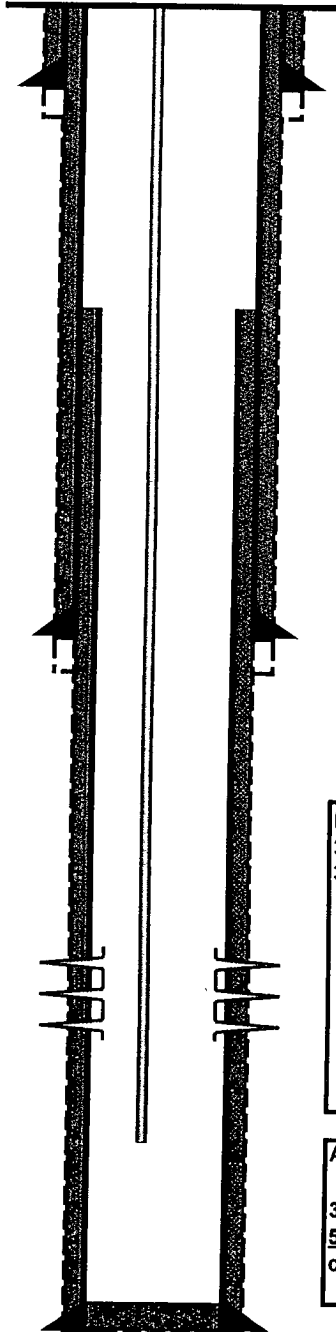
SIZE: 5 1/2  
 WT/GRD: 17#  
 WT/GRD:  
 CSA/Depth 3194  
 SX: 300  
 CIRC:  
 TOC:  
 HOLE SIZE:

only @ 60' interval exposed

**TUBING INSTALLATION**

2 3/8  
 3131 depth  
 3131 packer  
 101 jts 2 3/8 " EUE, 8rd 4.7 # J-55 IPC  
Guiberson Uni Packer I, set at 3110' 15,000 tension

**ROD & PUMP INSTALLATION**



Perforations		
3330-		
3625'		
18'	3 SPF	54 holes
13	3 SPF	39 holes
30	3 SPF	90 holes
1'	3 SPF	15 holes

**Acidized**  
 3330'    3635'  
 5000 gallons 7 1/2 HCL  
 cleaned out to 3260" on 5/90

PBTD: 3468  
 TD: 3686

# LANGLIE JAL UNIT # 85

## WELL HISTORY

6/12/1990 Shut in injection well, MIRUSU, RU reverse unit, flow well back to reverse pit, No well head, NU BOP, Release Guiberson Uni-Packer I set at 3100' (15,000) tension, POH with packer and 2 3/8" IPC 4.7# J-55 production tubing. P U 4 3/4 " bit collars, and 2 7/8 " J-55 6.5# EUE workstring tubing. RIH and tag fill at 3260' Clean hold out to 3468' Note: Junk in hole at 3468'. Do not turn on junk. POH and LD workstring, collars and bit. RIH with injection equipment Load backside with packer fluid. Set Guiberson Uni-Packer I at 3110' Return well to injection, RDMOSU

Injection well improvement  
Currently injecting 244 BWPD at 440 psig  
LJU #85 WIW was in the LJU injection cleanout package. The coiled tubing failed to clean out the majority of the open hole section. Only 60 feet of the open hole section is exposed to injection fluids. This is the only interval open since the well has no perforations in the cased section This well offsets five low volume wells with good to moderate oil cuts. Injection has always been poor in the south-end of the field. This well needs to be properly cleaned out. Tubulars will have to be pulled, and cleaned out with a bit and a reverse unit.

5/20/1990 Tagged fill at 3184 and washed out 3184 to 3260 Circ and clean return to injection.

10/1/1991 new operator effective 10/1/1991

12/19/1992 through 12/17/1992 MIRU, ND WH, NU BOP, Unable to rls pkr. POOH LD pkr. PU bit and workstring, SDFD  
Finish RIH w/tbg. Tag fill in open hole. Drill and wash to 3485.' Circ clean and POOH PU jet sub. RIH to csg shoe SDFD  
TIH with jet sub. Tag bridge @3305' jet and wash to 3485' circ hole, clean POOH, LD work string and DC, RU tbj testers. PU pkr RIH and tested tbg circ pkr fluids, Set pkr 3128' ND BOP NU WH RDMO

12/15/1992 MIRU, rls pkr, PUH, set at 3098' test pkr, good test, RDMO

12/16/1992 MIRU, ND WH NU BOP, POOH tbg & pkr ND BOP Cut off WH weld on ball nipple. Install new WH NU BOP SDFN

12/17/1992 PU RIH with pkr circ hole with pkr fluid, set pkr @ 3,095' ND BOP NU WH Run H-5 Good Test RDMO

12/4/1992 Notify NMOC prior to starting work. Flow back well for several days prior to work until well is dead, MIRU PU, ND wellhead NU BOP, Release packer and POOH with tubing and packer, Send packer into be redressed. Deliver 2 7/8 " workstring to location PU workstring and RIH with 3/4" bit, 6 drill collars, and workstring.

RU reverse unit and power swivel. Clean out fill from 3256' to 3468'. POOH laying down workstring. RIH with packer and IPC tubing to 3131' Load backside with packer fluid and set packer. ND BOP, wellhead, Perform packer leakage test for state and RDMO PU. Return well to injection.

Wait until well stabilizes and run injection survey.

9/3/1993 Leaking line clamp caused discharge of 25 barrels of produced water. Spill was limited to facility pad then picked up 12 bbls with vacuum truck, replaced flowline section with new flowline.

12/19/1992 MIRU, RIH with 1.75 down blast nozzle, tage soft fill 3300+-. Bridge 3581' Hard fill 3669-3695, circ clean recover iron sulfide RIH with 1.75 side blast nozzle work from 3220'-3695' Rotate tool 90 degree intervals, washing intervals. RDMO

11/27/1992 RU to test csg pump hole in csg dug out cellar, intermediate csg has hole, RIRU, ND WH, NU BOP, pulled it of tbg & pkr MI workstring SIH/pkr MI workstring SIH/pkr and RBP SDFN

11/28/1992 Set RBP @ 3218' Pull pkr to 3052.' Moved RBP to 3052' Pull pkr 2987. Pulled pkr to 2455' WBIH POOH w tbg. Replaced pkr RIH, RBP to 3205' POOH, POOH with tbg and pkr SDOW

12/1/1992 Dmp 2 sx snd on RBP @ 3218' RU cmt sqz hole in 7" csg. 169-189' w/100 sxs Class "C" cmt, w 2% CaCL SION

12/2/1992 PU and Bit DC, RIH tbj, tag cmt, @135' cmt, grn, POOH, SDFD

12/3/1992 RIH hard cmt 166' to 205' circ clean, test csg circ sand from RBP POOH with stds of pipe SDFN.

12/4/1992 POOH with tbg and RBP, Put scraper ran tbg, COOH with tbg, PU pkr test tbg. Pump pkr fluid, Set pkr, SDFN

12/5/1992 RUD cleaned location, Covered pit, hooked up well.

12/20/1992 MIRU RIH with 1.75 OD down blast nozzle wash 3330-3691' soft fill bridge 3691' wash 3691-3780' Hard fill. Tag up 3780' Circ clean recover iron sulfide. RIH with 1.75 OD side blast nozzle, Rotate too 90' degree intervals RDMO.

12/17/1992 MIRU NDWH, NU BOP Rls Pkr, POOH, LD pkr PU bit, DC&tbg, RIH, Tag fill @3451' clean out, Bit plugged, POOH Unplug bit, RIH to 3200 SDFD

12/18/1992 PU Pkr TIH test tbg, ND Bop, NU WH circ pkr fluid, set pkr at 3148' Ran H-5 Good Test, RDMO

12/19-12/17 1992 MIRU, ND WH, NU BOP, Unable to rls pkr POOH LD pkr PU bit and workstring SDFD  
Finish RIH with tbg Tag fill in open hole Dirll and wash to 3485' Circ clean POOH, PU jet sub, RIH to csg shoe SDFD  
TIH with jet sub tag bridge at 3305' jet and wash to 3485' circ hole clean POOH, LD work string and DC, RU tbg testers PU pkr RIH and tested tbg circ pkr fluids, set pkr 3128' ND BOP NU WH RDMO  
MIRU, rls pkr PUH set at 2098' test pkr good test RDMO  
MIRU, ND WH, NU BOP, POOH tbj and pkr, ND BOP cut off WH weld on ball nipple. Install new WH NU BOP SDFN  
PU RIH with pkr circ hole with pkr fluid. Set pkr at 3095' ND BOP NU WH Run H-5 Good test, RDMO

9/3/1993 Leaking line clamp caused discharge of 25 barrels of produced water. Spill was limited to facility pad then picked up 12 bbls with vacuum truck. Replaced flow line section with new flow line.

2/14/1996 Clean out open hole from 3194' to 3483'

2/14/1996  
to 3/8/1996

Clean out open hole from 3194' to 3483'  
Wash out bridge from 3430-3585'  
Drill new 4 3/4 hole from 3430-3686.  
Run 600' of 4" liner. Circ liner with foam. Cmt liner  
Run squeeze pkr Set above liner@ 3061' 5 1/2" casing heald at 500 psi  
Pump 200 sx cmt tbg Drill cmt from 2810' to top of 4" liner, Press test to 500 psi  
Drill out liner top, Drill out 5' cmt in liner btm to 3680' Circ Clean  
Perf depths given, see report for more information,  
Acidize Ream out liner to TD  
Test 4" J lock opkr and 2 3/8 " inj string set at 3130' inside 4" liner, Circ pkr fluid, set pkr. Would not test  
Squeeze top of 4" liner with 100 sx cmt to 2000 psi, Reverse out, Reset prk, Leave 1000 psi on squeeze  
Release squeeze pkr. Drill out 150' med soft cmt.  
Drill out 1" cmt in top of liner. Circ sand off BP  
Drill out 1" cmt in top of liner Circ sand off BP  
Set 4" J lock pkr at 3275'+- in 10000# tension, Press test backside and pkr to 500 psi, Press held  
Put on injection.

10/26/2001

MI and RU April 2002 TOH with downhole equipment, Repair if necessary  
Restore well to injection

4/2/2002

MI and RU Rapid Transport, Pressure tested back side to 450# held and charted okay, Reactive well. Witnessed by OCD representative.

3/22/2006

Pressure tested well as per attached chart, packer @ 3275' This well will be activated and put back into injector status.