

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  
MAY 18 2010  
HOBBSOC

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<br>Resaca Operating Company<br>1331 Lamar, Suite 1450<br>Houston, TX 77010 |                                               | <sup>2</sup> OGRID Number<br>263848                                             |
|                                                                                                                   |                                               | <sup>3</sup> API Number<br>30-025-11147                                         |
| <sup>5</sup> Property Code<br>306443                                                                              | <sup>4</sup> Property Name<br>Cooper Jal Unit | <sup>6</sup> Well No<br>105                                                     |
| <sup>9</sup> Proposed Pool 1<br>Jalmat; Tansill, Yates, 7 Rivers (Oil) 33820                                      |                                               | <sup>10</sup> Proposed Pool 2<br>Langhe Mattux, 7 Rivers, 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 |
|--------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| F            | 18      | 24S      | 37E   |         | 1980          | North            | 1980          | West           | 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**

|                                   |                                       |                                  |                                    |                                               |
|-----------------------------------|---------------------------------------|----------------------------------|------------------------------------|-----------------------------------------------|
| <sup>11</sup> Work Type Code<br>E | <sup>12</sup> Well Type Code<br>O/I   | <sup>13</sup> Cable/Rotary       | <sup>14</sup> Lease Type Code<br>P | <sup>15</sup> Ground Level Elevation<br>3295' |
| <sup>16</sup> Multiple            | <sup>17</sup> Proposed Depth<br>3733' | <sup>18</sup> Formation<br>Queen | <sup>19</sup> Contractor           | <sup>20</sup> Spud Date                       |

**21 Proposed Casing and Cement Program**

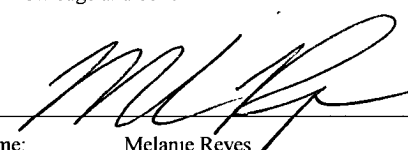
| Hole Size | Casing Size | Casing weight/foot | Setting Depth | Sacks of Cement | Estimated TOC |
|-----------|-------------|--------------------|---------------|-----------------|---------------|
| 11"       | 8 5/8"      | 32                 | 1252'         | 550             | Surface       |
| 7 7/8"    | 5 1/2"      | 17                 | 3468'         | 250             | 2410'         |
|           |             |                    |               |                 |               |
|           |             |                    |               |                 |               |
|           |             |                    |               |                 |               |

<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 proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

- 1.) Re-enter CJU #105 (well was plugged 2/24/2000).
- 2.) Drill out 5 cement plugs @ surface-30', 1150'-1350', 1400'-1500', 2750'-3000' and 3365'-3400'. Drill out CIBP @ 3400'.
- 3.) Pressure Test 5 1/2" casing, set @ 3468'. (Double Ram Blowout Preventer- 3000 psi).
- 4.) Test well for production potential (OH from 3468'-3733').
- 5.) Test well for water injection potential.

**Permit Expires 2 Years From Approval  
Date Unless Drilling Underway**

*Re-Entry*

|                                                                                                                             |                       |                                                                                                   |                  |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|------------------|
| <sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief |                       | OIL CONSERVATION DIVISION                                                                         |                  |
| Signature:                               |                       | Approved by:  |                  |
| Printed name: Melanie Reyes                                                                                                 |                       | Title: PETROLEUM ENGINEER                                                                         |                  |
| Title: Engineer Assistant                                                                                                   |                       | Approval Date: JUL 07 2010                                                                        | Expiration Date: |
| E-mail Address: melanie.reyes@resacaexploitation.com                                                                        |                       |                                                                                                   |                  |
| Date: 5/5/2010                                                                                                              | Phone: (432) 580-8500 |                                                                                                   |                  |

FOR RECORD ONLY  
Work has been done, ONLY submitted to bring  
well file complete.

*dm*

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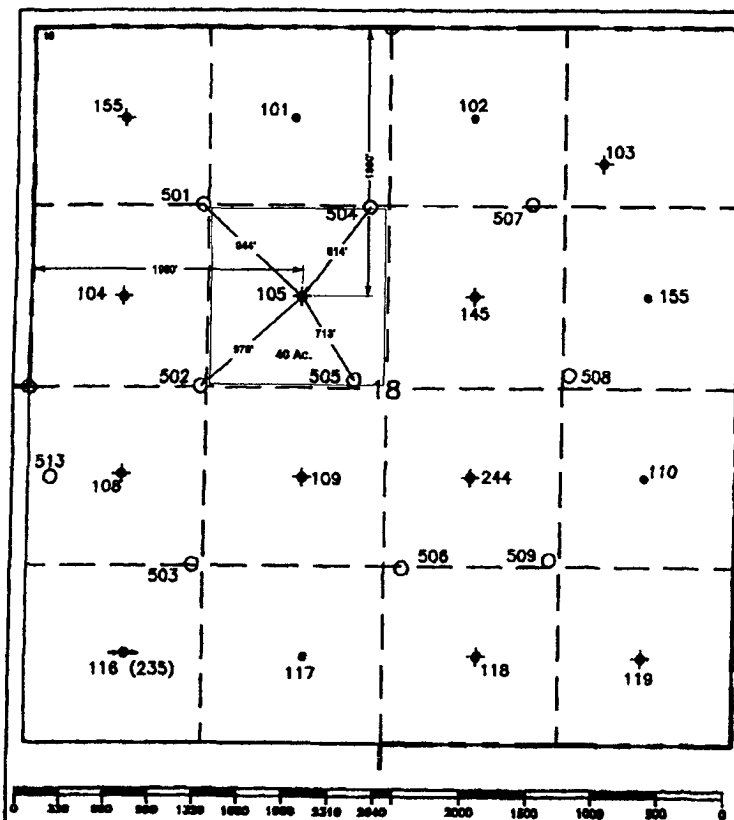
Form C-1021  
Revised October 12, 2006  
Submit to Appropriate District Office  
State License-4 copies  
Fee License-3 copies

## WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

|                                                |               |                                              |               |                                     |                           |
|------------------------------------------------|---------------|----------------------------------------------|---------------|-------------------------------------|---------------------------|
| APN Number<br>30-025-11147                     |               | Pool Code                                    |               | Pool Name<br>Jalmit; Langile Mattix |                           |
| Property Code                                  |               | Property Name<br>Cooper Jal Unit             |               | Well Number<br>105                  |                           |
| ORD No.<br>193003                              |               | Operator Name<br>TORCH ENERGY SERVICES, INC. |               | Deviation<br>3304'                  |                           |
| Surface Location                               |               |                                              |               |                                     |                           |
| UL or lot no.<br>J                             | Section<br>24 | Township<br>24-S                             | Range<br>37-E | Lot No.<br>1980'                    | North/South line<br>North |
|                                                |               |                                              |               | Feet from the<br>1980'              | East/West line<br>West    |
| County<br>L&A                                  |               |                                              |               |                                     |                           |
| Bottom Hole Location if Different From Surface |               |                                              |               |                                     |                           |
| UL or lot no.                                  | Section       | Township                                     | Range         | Lot No.                             | North/South line          |
|                                                |               |                                              |               | Feet from the                       | East/West line            |
| County                                         |               |                                              |               |                                     |                           |
| Dedicated Acres<br>40                          |               | Joint or Infill                              |               | Consolidation Code                  |                           |
| 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.



**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 undivided 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: *Jim Kidd* Date: 4-30-2007

Printed Name  
Jim Kidd

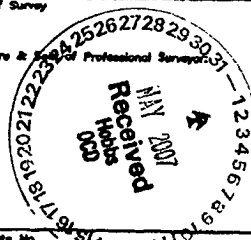
### 18 SURVEYOR CERTIFICATION

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 knowledge and belief.

Date of Survey

Signature of Professional Surveyor

Certificate No.



○ = Staked Location    ● = Producing Well    ⊕ = Injection Well    ◇ = Water Supply Well    ✦ = Plugged & Abandon Well  
● = Found Section Corner, 2 or 3" Iron Pipe & GLO B.C.    ○ = Found 1/4 Section Corner, 1" Iron Pipe & GLO B.C.

### ADDITIONAL INFORMATION ON THE LOCATION

|                         |                      |                      |                 |
|-------------------------|----------------------|----------------------|-----------------|
| State Plane Coordinates |                      |                      |                 |
| Northing 445312.02      |                      | Easting 890603.59    |                 |
| Latitude                |                      | Longitude            |                 |
| Zone                    | North American Datum | Combined Grid Factor | Coordinate File |
| East                    | 1983/86              | 0.99988900           |                 |
| Drawing File            |                      | Field Book           |                 |

08/2 /2 12:08pm P. 002

Sep 20 02 01:33p

Vista

915-367-2678

P. 1

**NL Shaffer**

Pressure Control

**RAM ASSEMBLIES AND PARTS FOR SENTINEL BOPS**

| <b>SENTINEL RAM ASSEMBLIES</b>                  |           |          |           |          |
|-------------------------------------------------|-----------|----------|-----------|----------|
| <b>7 1/2" BORE — 3,000 psi WORKING PRESSURE</b> |           |          |           |          |
| Part No.                                        | Part Name | Part No. | Part Name | Part No. |
| ESD                                             | 721173    | 721174   | 721175    | 721176   |
| 1.312                                           | 721177    | 721178   | 721179    | 721180   |
| 1.313                                           | 721181    | 721182   | 721183    | 721184   |
| 1.314                                           | 721185    | 721186   | 721187    | 721188   |
| 2.315                                           | 721189    | 721190   | 721191    | 721192   |
| 2.316                                           | 721193    | 721194   | 721195    | 721196   |
| 2.317                                           | 721197    | 721198   | 721199    | 721200   |
| 2.318                                           | 721201    | 721202   | 721203    | 721204   |
| 2.319                                           | 721205    | 721206   | 721207    | 721208   |
| 2.320                                           | 721209    | 721210   | 721211    | 721212   |
| 2.321                                           | 721213    | 721214   | 721215    | 721216   |
| 2.322                                           | 721217    | 721218   | 721219    | 721220   |
| 2.323                                           | 721221    | 721222   | 721223    | 721224   |
| 2.324                                           | 721225    | 721226   | 721227    | 721228   |
| 2.325                                           | 721229    | 721230   | 721231    | 721232   |
| 2.326                                           | 721233    | 721234   | 721235    | 721236   |
| 2.327                                           | 721237    | 721238   | 721239    | 721240   |
| 2.328                                           | 721241    | 721242   | 721243    | 721244   |
| 2.329                                           | 721245    | 721246   | 721247    | 721248   |
| 2.330                                           | 721249    | 721250   | 721251    | 721252   |

Common Part Numbers: 721500 Ram Body

721727 Ram Head

721728 Ram Head

721729 Ram Head

721727 Ram Head

721728 Ram Head

721729 Ram Head

721727 Ram Head

721728 Ram Head

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| <b>SENTINEL OFFSET RAM ASSEMBLIES</b>           |           |          |           |          |
|-------------------------------------------------|-----------|----------|-----------|----------|
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