

Submit 1 Copy To Appropriate District  
Office  
District I - (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II - (575) 748-1283  
811 S. First St., Artesia, NM 88210  
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

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

|   |
|---|
| WELL API NO.<br>30-045-29002-00   |
| 5. Indicate Type of Lease<br>STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> |
| 6. State Oil & Gas Lease No.<br>N/A   |
| 7. Lease Name or Unit Agreement Name<br>Disposal  |
| 8. Well Number: #001  |
| 9. OGRID Number: 037218   |
| 10. Pool name or Wildcat:<br>Blanco/Mesa Verde  |

|  |  |
|--|--|
| SUNDRY NOTICES AND REPORTS ON WELLS<br>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A<br>DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH<br>PROPOSALS.) |  |
| 1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other - (Disposal Well)  |  |
| 2. Name of Operator San Juan Refining Co. / Western Refining Southwest, Inc. -<br>Bloomfield Refinery  |  |
| 3. Address of Operator<br># 50 Road 4990, Bloomfield, NM, 87413  |  |
| 4. Well Location<br>Unit Letter I : 2442 feet from the south line and 1250 feet from the east line<br>Section 27 Township 29 Range 11 NMPM County San Juan   |  |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.)   |  |

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

| NOTICE OF INTENTION TO:  |   | SUBSEQUENT REPORT OF:                            |  |
|--|---|--|--|
| PERFORM REMEDIAL WORK <input type="checkbox"/>                             | PLUG AND ABANDON <input type="checkbox"/> | REMEDIAL WORK <input type="checkbox"/>           | ALTERING CASING <input type="checkbox"/> |
| TEMPORARILY ABANDON <input type="checkbox"/>                               | CHANGE PLANS <input type="checkbox"/>     | COMMENCE DRILLING OPNS. <input type="checkbox"/> | P AND A <input type="checkbox"/>         |
| PULL OR ALTER CASING <input type="checkbox"/>                              | MULTIPLE COMPL <input type="checkbox"/>   | CASING/CEMENT JOB <input type="checkbox"/>       |  |
| DOWNHOLE COMMINGLE <input type="checkbox"/>                                |   |  |  |
| OTHER: Well Stimulation / Acidize Well <input checked="" type="checkbox"/> |   | OTHER: <input type="checkbox"/>                  |  |

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.

Western Refining Southwest, Inc. - Bloomfield Refinery requests permission to perform well stimulation/acidization procedures on the Class I Injection Well referenced above. The procedures for this project are attached. The procedure will be scheduled pending approval from OCD.

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 Kelly Robinson TITLE Environmental Supervisor DATE 9/21/2011

Type or print name Kelly Robinson E-mail address: kelly.robinson@wnr.com PHONE: 505-632-4166  
**For State Use Only**

APPROVED BY: David P. Robinson TITLE Environmental Engineer DATE 9/22/2011  
Conditions of Approval (if any):

## **Western Refining Southwest, Inc. – Bloomfield Refinery**

### **Well Clean-Out and Acid Treatment Field Procedure – September 2011**

**Well:** Disposal Well #1

**Field:** Mesaverde

**Location:** Bloomfield Refinery  
S27, T29N, R11W

**API No. :** 30-045-29002

**PROJECT: Lower injection pressure by pumping 15% HCl acid.**

#### **Prior to Job:**

A safety meeting will be held for all contractors and facility visitors prior to the start of field activities. Equipment staged on-site for well clean-out and acidizing activities include two 400-bbl frac tanks to be used for flow-back after acid job. An additional frac tank may be used for flow-back during well clean out activities. The tanks will be hard-piped to the injection well piping for flow-back. All field piping will be pressured tested at 4,000 psi to ensure no leaks exist on field equipment prior to commencement of field work.

A water truck will be used for fluid displacement. Hydrants at the Bloomfield Refinery have too much pressure for these field activities. A summary of the activities proposed are as follows:

#### **Phase 1: Clean out and Acid Spot**

1. Rig up the coil tubing unit & Halliburton to well head and conduct pressure test on pumps and lines.
2. RIH with 1-¼-inch coil tubing to PBTD at 3520 ft. Clean out if necessary.
3. Pull coiled tubing up to bottom perforation at 3,460 ft KB (bottom perforation) to ensure acid placement is at the perforations.
4. Pump 200 gallons of 15% HCL with inhibitors into well.
5. Pull out coiled tubing and shut well in overnight.

#### **Phase 2: Acid / Ball Off**

- Establish an injection rate with water. Pump 4,200 gallons of 15% HCl acid w/ inhibitors and mutual solvent with 300 ea. bio-degradable ball sealers. Pump initial 500-gallons without balls.
- Displace acid to bottom perforation with ~ 24 bbls of 2% KCl water (or disposal water if available).
- Shut well in for ~ 1 hr and let acid treatment "soak".
- Open well through 2-inch line and let well flow back to frac tank. Flow back approximately 400 bbls of fluid.
- After flowback, return well to injection status and monitor rates and pressures.

#### **Materials & Vendors**

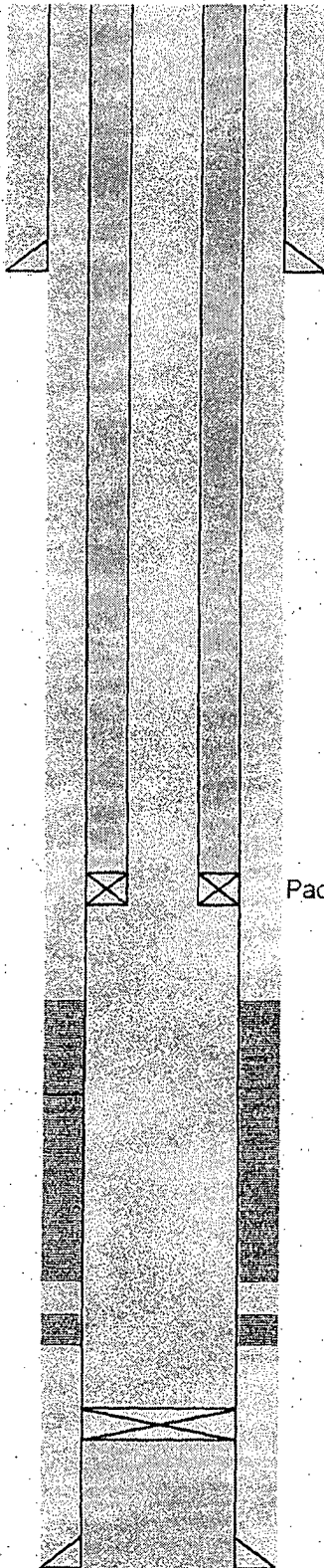
Acid: Halliburton Energy Services

Coil Tubing: Basic Energy Services

**WESTERN REFINING DISPOSAL WELL #1**  
**NW, SW SECTION 26, T29N, R11W**

NO.: 30-045-29002

|  |           |  |            |
|--|-----------|--|------------|
| <b>SUBSURFACE</b>  |           | HOUSTON, TX<br>SOUTH BEND, IN<br>BATON ROUGE, LA |            |
| <b>FIGURE 1</b><br><b>DISPOSAL WELL #1 WELL SCHEMATIC</b><br>Western Refining Inc.<br>Bloomfield, NM |           |  |            |
| Date:  | 4/26/2006 | Approved By:                                     | rls        |
| Drawn By:  | rls       | Job No.:   | 70F5830    |
|  |           | Checked By:                                      | Scale: N/A |



8-5/8", 48#/ft, Surface Casing @ 830'  
 TOC: Surface  
 Hole Size: 11.0"

Tubing: 2-7/8", Acid Resistant Fluoroline Cement Lined  
 Wt of Tubing: 6.5 #/ft  
 Wt of Tubing Lined: 7.55 #/ft  
 Tubing ID: 2.128"  
 Tubing Drift ID: 2.000"  
 Minimum ID @ Packer: ~1.87" estimated

Packer: Unknown Packer Type @ 3221'  
 Could be a Guiberson or similar model Uni-6

Perforations: 3276' - 3408' 4JSPF 0.5 EHD  
 Top of the Cliff House Formation: 3276'

Fill was cleaned out of well on 4/20/06  
 Fill was originally tagged at 3325'

Perforations: 3435' - 3460' 4JSPF 0.5 EHD  
 Top of the Menefee Formation: 3400'

RBP: 3520'

5-1/2", 15.5#/ft, Production Casing @3600'  
 TOC: Surface  
 Hole Size: 7-7/8"