Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

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

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APR 17 2013

Form C-103
May 27, 2004

| | |
|---|---|
| WELL API NO. 30-025-10920 | |
| 5. Indicate Type of Lease STATE X FEE ☐ | |
| 6. State Oil & Gas Lease No. | |
| 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.) | 7. Lease Name or Unit Agreement Name: Shell State 13 |
| 1. Type of Well: Oil Well ☐ Gas Well ☐ Other Salt Water Disposal | 8. Well Number #13 |
| 2. Name of Operator: Western Refining Company, LP | 9. OGRID Number 248440 |
| 3. Address of Operator: PO Box 1345 Jal, New Mexico 88252 | 10. Pool name or Wildcat: 96108 SWD; Grayburg |
| 4. Well Location: Unit Letter L : 1980 feet from the South line and 660 feet from the West line; Section 32 Township 23S Range 37E NMPM Lea County | |
| | 11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* |

**Pit or Below-grade Tank Application ☐ or Closure ☐**

**Pit type_____ Depth to Groundwater_____ Distance from nearest fresh water well_____ Distance from nearest surface water_____**

**Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____**

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

| NOTICE OF INTENTION TO: | | SUBSEQUENT REPORT OF: | |
|---|---|---|---|
| PERFORM REMEDIAL WORK ☐ | PLUG AND ABANDON ☐ | REMEDIAL WORK X | ALTERING CASING ☐ |
| TEMPORARILY ABANDON ☐ | CHANGE PLANS ☐ | COMMENCE DRILLING OPNS. ☐ | P AND A ☐ |
| PULL OR ALTER CASING ☐ | MULTIPLE COMPL ☐ | CASING/CEMENT JOB ☐ | |
| OTHER: ☐ | | OTHER: ☐ | |

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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

4/5/2013

Shell State 13 SWD well perforations are 90% plugged and Western Refining has contracted Baker Hughes to perform the following procedure:

- RIH at safe speed (60 ft/min) pumping at minimum rates to 3800 ft or top of fill. PUH 50 feet and start at 0.25 bpm+350 cfm + 6 gpt FAW-21/FAW-4 until circulation is achieved. * Well goes on vacuum*
- RIH and wash sand/debris at safe speed to PBTD (3926) while maintaining returns. AT PBTD, pump a 10 bbl gel sweep
- PUH 50 feet above top perf to 3800 feet and switch to acid
- RIH and spot 3000 gallons of 15% HCL over perforations from 3866 to 3926 feet
- After spotting acid, POOH at safe speed
- PDMO BHI
- Flushed with Soda Ash and rigged down
- Well shut in with 200 psig. service pressure
- Monitored well psig. over next several months
- In November 2012 well on vacuum
- *Introduce fresh water down tubing (rate 20 gpm). Well lost vacuum after one hour*

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- Checked well and was on vacuum
- Contracted Cardinal Survey to run Tracer Log
- Tracer Log attempted failed. Could not get down to perfs.
- Bridge at 3,172 ft.
- Contracted Precision Pressure Data, Inc. to run sinker bar
- Could not break through Bridge at 3,167 ft.
- Pulled out of hole and ran sample bailer
- Sample analysis attached
- Contracted Bake Hughes to acidize well tubing and perfs
- Baker Hughes rigged up at 10:39 AM on 4-9-13
- Washing tubing with fresh water
- 1500 ft. tagged bridge and washed through with fresh water
- 1750 ft. tagged bridge and could not wash with water. Pumped 5 barrel acid and broke through. Back to washing with water
- 3273 ft. tagged bridge and introduce 5 barrels of acid and broke through. Back to washing with water
- 3276 ft. tagged bridge and pumped 10 barrels of acid and let stand for one hour. Broke through and back on fresh water
- TD well at 3986 ft. washing with fresh water circulating back to service
- Closed in backside and well pressure 0
- Pulled up to 3860 ft. Introduced acid @ .72 gpm (per depth 3866 ft.- 3926 ft. )
- Introduced acid until acid was gone. Pulled up to surface and flushed with 20 barrels of fresh water
- Shut well in
- Contracted Cardinal Survey to run Tracer Log. Log Attached

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4/13/2013

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.**

SIGNATURE _____ TITLE Manager DATE 4-15-13

Type or print name Ken Parker E-mail address: ken.parker@wnr.com Telephone No. 505-395-2632

**For State Use Only**

APPROVED BY: _____ TITLE Dist. Mgr DATE 4-17-2013

Conditions of Approval (if any):

APR 22 2013

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*Permian Area Laboratory* *(432) 530-2667*

BAKER HUGHES
PERMIAN AREA LAB, ODESSA
(432) 530-2667

# S O L I D S  A N A L Y S I S

PFS SOLIDS.13

| | | | |
|---|---|---|---|
| OPERATOR: | Western Refining | ANALYSIS DATE: | 03/11/13 QTR: 1 |
| WELL: | Shell State WD #13 | SAMPLE DATE: | 03/09/13 |
| FORMATION: | | DISTRICT: | Coiltech |
| FIELD: | | REQUESTED BY: | Terry Gage |
| COUNTY: | Lea, NM | ANALYST: | Toby Santos |
| DEPTH: | 3996 BHT: | DESCRIPTION: | Wet, black, gritty |
| SOURCE: | Injection well obstruction | NUMBER: | 004 PROJ HRS: 3 |

REMARKS: Reported by: Toby Santos Verified by: Larry Hines

## P H Y S I C A L  D E T E R M I N A T I O N S

DESCRIPTION: Wet, black, fine, granular mass

| | |
|---|---|
| 94.1 % | Iron Sulfide<br>Soluble in 15% HCl |
| 5.9 % | Insoluble Iron Fines (magnetic & non-magnetic)<br>Insoluble in 15% HCl |
| _____ % | |
| 100.0 % | |