

Submit 1 Copy To Appropriate District Office  
District I - (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88201  
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  
**HOBBS OCD**  
OIL CONSERVATION DIVISION  
20 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-103  
Revised July 18, 2013

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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.)		WELL API NO. <b>30-025-10920</b>
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other - <b>SWD</b>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator <b>Western Refining Company, LP</b>		6. State Oil & Gas Lease No.
3. Address of Operator <b>PO Box 1345 JAL, NM 88252</b>		7. Lease Name or Unit Agreement Name <b>Shell State</b>
4. Well Location Unit Letter <b>L</b> : <b>1980</b> feet from the <b>S</b> line and <b>660</b> feet from the <b>W</b> line Section <b>32</b> Township <b>23S</b> Range <b>37E</b> NMPM <b>Lea</b> County		8. Well Number <b>13</b>
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		9. OGRID Number <b>248440</b>
		10. Pool name or Wildcat <b>96108 SWD; Grayburg</b>

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
DOWNHOLE COMMINGLE ☐  
CLOSED-LOOP SYSTEM ☐  
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: **Annual Radioactive Tracer Survey** ☒

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.

The radioactive tracer survey was performed on July 12, 2018 and indicated all fluid is going into the perforations. There was no indication of channeling or fluid migration behind the casing. The following activities were performed during this operation:

1. MIRU Wireline
2. Gauge run to TD @ 3928'
3. Record base density log from TD to 2500'
4. Inject radioactive tracer material and follow downhole into perforations; perform channel check
5. Record post survey density log
6. RDMD Wireline

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 Krystyn Strong TITLE Petroleum Engineer DATE 7/16/18  
Type or print name Krystyn Strong E-mail address: krystyn@lonquist.com PHONE: 832-797-3238  
For State Use Only  
APPROVED BY: Maury S Brown TITLE AO/I DATE 7/17/2018  
Conditions of Approval (if any):

MB



## **R/A TRACER LOG INTERPRETATION**

07/17/2018

**PLANT: WESTERN REFINING**

**C/O: MR. WILL GEORGE**

**WELL NAME: SHELL STATE 13 SWD # 1**

***RE: Radioactive Survey ran on 07/12/2018***

A Pre Base Log was run from 3928' to 2492' to detect and record background gamma counts.

Iodine 131 was then ejected at a depth of 2650' and pumped down the 2 7/8" Slimhole casing and into the permitted interval. Overlapping logging passes tracked the R/A tracer material as it moved down in the wellbore.

The flow profile log was then repeated and this survey also showed R/A material going out into the permitted interval.

A Stationary Time Drive survey was run with the tool at 3850'. No indications of upward migration were recorded.

A Post Base log was then run from 3928' to 2492' and noted that all R/A material was flushed out of the wellbore into the permitted interval.

John Croce  
Industrial Logging Department  
4119 Chance Ln.  
Rosharon, TX 77583

# LONQUIST & CO. LLC

PETROLEUM  
ENGINEERS

ENERGY  
ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

July 17, 2018

Mr. Maxey G. Brown,  
District 1 Supervisor  
New Mexico Oil Conservation Division  
1625 N. French Drive  
Hobbs, New Mexico 88240

**RE: WESTERN REFINING COMPANY, LP  
SHELL STATE NO. 13 ANNUAL RADIOACTIVE TRACER SURVEY (2018)**

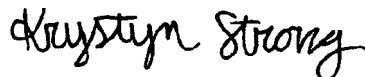
Mr. Brown,

Attached, please find the Radioactive Tracer Survey that was run on the Shell State No. 13 disposal well located at the Western Refining facility, Plant No. 4, 10 miles north of Jal, NM on July 12, 2018.

The Radioactive Tracer Survey indicates all fluid is going into the perforations. There was no indication of channeling or fluid migration behind the casing.

If you have any questions or require any additional information, please contact me at (832) 797-3238.

Sincerely,



Krystyn Strong  
Petroleum Engineer  
Lonquist & Co., LLC  
(713) 987-4292  
(832) 797-3238  
krystyn@lonquist.com