

• 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

Form C-103  
May 27, 2004

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

WELL API NO.  
30-045-33655

5. Indicate Type of Lease

STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name  
LEORA WALLACE

8. Well Number #1E

9. OGRID Number  
37581

10. Pool name or Wildcat  
Basin Dakota

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

2. Name of Operator  
Thompson Engineering & Prod. Corp.

3. Address of Operator  
7415 East Main Street, Farmington, NM 87402

4. Well Location

Unit Letter D : 695' feet from the NORTH line and 1180' feet from the West line  
Section 14 Township 30N Range 12W NMPM County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
5796' GL

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:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

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

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.

On 06/13/06 the above well was fraced per the attached treatment reports.



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 Paul C. Thompson TITLE Engineer/ Owner

DATE 06/19/06

Type or print name Paul C. Thompson, P.E.

E-mail address: paul@walsheng.net

Telephone No. 505-327-4892

For State Use Only

APPROVED BY: Chatt TITLE SUPERVISOR DISTRICT # 3

DATE 1 JUN 19 2006

Conditions of Approval (if any):

## FRACTURE TREATMENT REPORT

Operator: Thompson Engineering Well Name: Leora Wallace #1E  
Date: 13-Jun-06  
Field: Basin Dakota Location: 14/30N/12W County: San Juan State: NM  
Stimulation Company: Key Pumping Service Supervisor: Paul Thompson  
and Weatherford Wireline  
Stage #: 1/2 Dakota

Sand on location: Design: 40,000 & 5,000 Weight ticket: 120,420# & 11,340# Size/type: 20/40 Brady & 20/40 SLC

Fluid on location : No. of Tanks: 6 Strap: 20 Amount: 2400 Usable: 2160

### Perforations:

Depth: 6772-76 & 6739 - 44 at 1 spf Total Holes: 80 PBTD: 6810'  
6703- 6726' at 3 spf Loggers  
Shots per foot: EHD: 0.34"

### Breakdown:

Acid: 500 gal of 15% HCl  
Balls: None Formation broke at 3250 psi  
Pressures dropped 300 psi  
as the acid hit formation.  
Pressure: 1850 Rate: 4.7

### Stimulation:

ATP: 2900 psi AIR: 20 BPM  
MTP: 3500 psi MIR: 39.5 BPM

	Sand Stage	Pressure	Rate	BHTP
ISIP: 2470	pad	3000	39.3	4830
5 min: 1940	0.5 ppg	2850	18.2	5519
10 min: 1877	1 ppg	2590	16.4	5424
15 min: 1773	3 ppg			
	3 ppg SLC			

Job Complete at: 1415 hrs. Date: 6/13/2006 Start flow back: 20 30 Hrs  
with 600 psi  
Total Fluid Pumped: 1076 bbls  
Total Sand Pumped: 40,000 # Total Sand on Formation: 40,000# 20/40 Brady  
Total Nitrogen Pumped: None

### Notes:

All frac fluid was Aztec City water with 2% KCl, biocide, and 20#/1000 gal guar gel (AMBorMax 1020), borate crosslinker, surfactant, pH buffers, enzyme and encapsulated breakers. Surface treating pressures increased to 3500 psi during the 1 ppg stage. Flushed the sand and re-started the sand at 0.5 ppg at 18 BPM. Increased the sand to 1 ppg. Treating pressures increased to 3100 psi, then gradually dropped to 2550 psi. Planed to pump 5,000# of SLC at 1.0 ppg but the surface pressures increased rapidly from 2550 to 3100 psi. Flushed the sand to the top perf with linear gel water.

PTCS9 To 3500 Per PAUL, see email

## FRACTURE TREATMENT REPORT

**Operator:** Thompson Engineering **Well Name:** Leora Wallace #1E  
**Date:** 13-Jun-06  
**Field:** Basin Dakota **Location:** 14/30N/12W **County:** San Juan **State:** NM  
**Stimulation Company:** Key Pumping Service **Supervisor:** Paul Thompson  
and Weatherford Wireline  
**Stage #:** 2/2 Upper Dakota

**Sand on location:** **Design:** 60,000# 20/40 Brady **Weight ticket:** **Size/type:** 20/40 Brady & 20/40 SLC  
5,000 # 20/40 SLC  
**Fluid on location :** **No. of Tanks:** **Strap:** **Amount:** 1300 **Usable:** 1240

**Perforations:**  
**Depth:** 6622 - 6652' **Total Holes:** 90 **PBTD:** 6675' KB  
CIBP  
**Shots per foot:** 3 spf **EHD:** 0.34"

**Breakdown:**  
**Acid:** 500 gal of 15% HCl Initial wellhead pressure was 370 psi.  
**Balls:** None No obvious break  
**Pressure:** 1200 **Rate:** 4.5

**Stimulation:**  
**ATP:** 2500 psi **AIR:** 37.7 BPM  
**MTP:** 3100 psi **MIR:** 43 BPM

	Sand Stage	Pressure	Rate	BHTP
ISIP:	pad	2820	43	4188
5 min:	1 ppg	2524	41.1	3702
10 min:	2 ppg	2295	37.6	3708
15 min:	3 ppg	2350	37.7	3745
	4 ppg	2268	37.6	3620
	4 ppg SLC	2700	30.4	4866

**Job Complete at:** 1800 hrs. **Date:** 6/13/2006 **Start flow back:** 2030 hrs  
with 600 psi  
**Total Fluid Pumped:** 1170 bbls  
**Total Sand Pumped:** 80,000 Brady **Total Sand on Formation:** 90,000  
10,000 SLC  
**Total Nitrogen Pumped:** None

### Notes:

All frac fluid was Aztec City water with 2% KCl, biocide, and 20#/1000 gal guar gel (AMBorMax 1020), borate crosslinker, surfactant, pH buffers, enzyme and encapsulated breakers. The frac gradient based on the ISIP was 0.77 psi/ft. Decreased the rate during the 1 and 2 ppg stages due to a declining Nolte. Nolte stabilized until the 4 ppg stage then started to decline again. Key lost prime at their blender just as the 4 ppg SLC stage was started. Started pumping again and finished the SLC stage and the flush but at a lower rate and higher surface treating pressure. .