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

Form C-103
May 27, 2004

WELL API NO. 30-045-32881	
5. Indicate Type of Lease STATE ☐ 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 Johnston
1. Type of Well: Oil Well ☐ Gas Well ☒ Other	8. Well Number #1E
2. Name of Operator Thompson Engineering & Prod. Corp.	9. OGRID Number 37581
3. Address of Operator 7415 East Main Street, Farmington, NM 87402	10. Pool name or Wildcat Basin Dakota
4. Well Location Unit Letter N : 905' feet from the South line and 1585' feet from the West line Section 28 Township 30N Range 12W NMPM County San Juan	
	11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 5436' 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:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
OTHER: ☒ Fracture Treatment Report		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 07/26/05 the above well was Fraced per 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 PRESIDENT DATE 08/05/05

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: [signature] TITLE SUPERVISOR DISTRICT # 3 DATE AUG 11 2005

Conditions of Approval (if any):

WALSH ENGINEERING & PRODUCTION CORPORATION

FRACTURE TREATMENT REPORT

Operator: Thompson Engineering **Well Name:** Johnston #1E
Date: 26-Jul-05
Field: Basin Dakota **Location:** 28/30N/12W **County:** San Juan **State:** NM
Stimulation Company: BJ Services **Supervisor:** Paul Thompson

Stage #: 1/2 Granerous

Sand on location: **Design:** 18,750 Brady / 6,250 SLC **Weight ticket:** _____ **Size/type:** 20/40 Brady & 20/40 SLC

Fluid on location : **No. of Tanks:** 2 **Strap:** 16' & 18' **Amount:** 680 **Usable:** 600

Perforations:

Depth: 6084-90, 6092-94, 6107 **Total Holes:** 27 **PBTD:** 6120' KB / CIBP

Shots per foot: 3 spf **EHD:** 0.34"

Breakdown:

Acid: 250 gal of 15% HCl

Balls: None

No obvious break
Pressures dropped 160 psi
as the acid hit formation.

Pressure: 1140 **Rate:** 4.2

Stimulation:

ATP: 3000 psi **AIR:** 25.5 BPM

MTP: 3560 psi **MIR:** 25.9 BPM

Sand Stage	Pressure	Rate	BHTP
pad	3192	25.5	4845
1 ppg	2835	25.5	4958
2 ppg	2744	25.7	4975
3 ppg	2665	25.7	5011
4 ppg	2636	25.3	5076
4 ppg SLC	3258	25.1	5519

ISIP: 3150
5 min: 1630
10 min: 1080
15 min: 789

Job Complete at: 1735 hrs. **Date:** 7/26/2005 **Start flow back:** 1830 hrs on a vacuum

Total Fluid Pumped: 478 bbls

Total Sand Pumped: 21,060 Brady / 7,000 SLC **Total Sand on Formation:** 28,000#

Total Nitrogen Pumped: None

Notes:
All frac fluid was Aztec City water with 2% KCl, biocide, and 20#/1000 gal guar gel (Lightning 20), borate crosslinker, surfactant, pH buffers, enzyme and encapsulated breakers. Nolte plot was slightly positive throughout the job. The well almost screened out during the flush. The frac gradient based on the ISIP was 0.95 psi/ft. At 1830 hrs the well was on a vacuum. SI the well.

WALSH ENGINEERING & PRODUCTION CORPORATION

FRACTURE TREATMENT REPORT

Operator: Thompson Engineering **Well Name:** Johnston #1E
Date: 26-Jul-05
Field: Basin Dakota **Location:** 28/30N/12W **County:** San Juan **State:** NM
Stimulation Company: BJ Services **Supervisor:** Paul Thompson

Stage #: 1/2 Dakota

Sand on location: **Design:** 105,000 & 35,000 **Weight ticket:** 126,060# & 42,000# **Size/type:** 20/40 Brady & 20/40 SLC

Fluid on location : **No. of Tanks:** 7 **Strap:** 19 **Amount:** 2660 **Usable:** 2380

Perforations:

Depth: 6212-19 & 6222-28 @ 1 spf; 6147 - 82 @ 3 spf **Total Holes:** 120 **PBTD:** 6258' Loggers
Shots per foot: **EHD:** 0.34"

Breakdown:

Acid: 500 gal of 15% HCl
Balls: None
Pressure: 600 **Rate:** 5.1

Formation broke at 1604 psi
Pressures dropped 370 psi
as the acid hit formation.

Stimulation:

ATP: 2400 psi **AIR:** 45.0 BPM
MTP: 3280 psi **MIR:** 49.6 BPM

Sand Stage	Pressure	Rate	BHTP
pad	2414	44	3815
1 ppg	2259	44.4	3838
2 ppg	2213	44.4	3935
3 ppg	2500	45.7	4440
3 ppg SLC	2959	44.8	4806

ISIP: 1700
5 min: 1331
10 min: 987
15 min: 661

Job Complete at: 1355 hrs. **Date:** 7/26/2005 **Start flow back:** 1830 hrs on a vacuum

Total Fluid Pumped: 1799 bbls

Total Sand Pumped: 105,000 Brady; 35,000 SLC **Total Sand on Formation:** 140,000#

Total Nitrogen Pumped: None

Notes:
All frac fluid was Aztec City water with 2% KCl, biocide, and 20#/1000 gal guar gel (Lightning 20), borate crosslinker, surfactant, pH buffers, enzyme and encapsulated breakers. Nolte plot was slightly positive throughout the job. The frac gradient based on the ISIP was 0.70 psi/ft. Treating pressures started to increase as the 3 ppg stage hit formation. Did not attempt to go to 4 ppg. Crosslinked gels were weak. Displaced sand to the top perf.