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District I
1625 N French Dr., Hobbs, NM 88240
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1301 W Grand Ave., Artesia, NM 88210
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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

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)		WELL API NO. 30-045-33931
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator Thompson Engineering & Prod. Corp.		6. State Oil & Gas Lease No. RCVD DEC 21 2006 OIL CONSERV. DIV.
3. Address of Operator 7415 East Main Street, Farmington, NM 87402		7. Lease Name or Unit Agreement Name THOMAS
4. Well Location Unit Letter L : 1980' feet from the <u>South</u> NORTH line and 985' feet from the West line Section 30 Township <u>29</u> 30N Range 11W NMPM County San Juan		8. Well Number #100
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 5376' GL		9. OGRID Number 37581
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>		10. Pool name or Wildcat BASIN FC & FULCHER KUTZ PC
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: Frac Treatment Report ☒

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 12/11/06 Thompson Engineering & Prod. Corp. fraced the above well 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/ President DATE 12/18/06

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: A. Villanueva TITLE DEPUTY OIL & GAS INSPECTOR, DIST. 4 DATE DEC 21 2006

Conditions of Approval (if any):

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FRACTURE TREATMENT REPORT

Operator: Thompson Engineering Well Name: Thomas #100
Date: 11-Dec-06
Field: Fulcher Kutz PC & Basin FTC Location: 30/29N/11W County: San Juan State: CO
Stimulation Company: Blue Jet and Key PPS Supervisor: Paul Thompson

Stage #: 1/3 Pictured Cliffs
Sand Design: 40,000# Weight ticket: On Location 11,980# 40/70 Arizona
130,160# Size/type: 20/40 Brady
Fluid on location : No. of Tanks: 3 Strap: 20' Amount: 1,200 Usable: 1,080

Perforations:
Depth: 1442, 45, 46, 47, 49, 50, 55 Total Holes: 15 PBTD: 1634' K
56, 60, 61, 62, 1522, 23, 26, & 38
Shots per foot: 1 spf EHD: .34"

Breakdown:
Acid: None Comments: Well roke at approximately 2400 psi
Balls: None
Pressure: Rate:

Simulation:
ATP: 1500 psi AIR: 31.5 BPM
MTP: 2400 psi MIR: 45 BPM

	Sand Stage	Pressure (psi)	Flow Rate (gpm)	N2 Quality	BH (ft)
ISIP: 756	pad	1514	31	70	1872
5 min: 682	0.5 ppg	1505	32.6	68	1772
10 min: 665	1 ppg	1515	32.1	72	1767
15 min: 630	2 ppg	1467	31.8	70	1733
	3 ppg	1440	31.4	72	1758
	4 ppg	1400	31	71	1773

Job Complete at: 0915 hrs. Date: 12/11/2006 Start flow back: SI well - dead.
Total Fluid Pumped: 226 bbls
Total Sand Pumped: 40,000# Total Sand on Formation: 40,000#
Total Nitrogen Pumped: 163,902 SCF

Notes:

All frac fluid was fresh water with 2% KCl, biocide, 20#/1000 gal guar gel, borate crosslinker, foamer, surfactant, mutual solvent, enzyme and oxidizer breakers. The frac gradient based on the ISIP was .91 psi/ft.

Signature Paul Thompson

FRACTURE TREATMENT REPORT

Operator: Thompson Engineering **Well Name:** Thomas #100
Date: 15-Dec-06
Field: Fulcher Kutz PC & Basin FTC **Location:** 30/29N/11W **County:** San Juan **State:** CO
Stimulation Company: Blue Jet and Key PPS **Supervisor:** Paul Thompson

Stage #: 2/3 **Lower Fruitland Coals**
Sand Design: 5,000 & 45,000# **Weight ticket:** On Location **Size/type:** 40/70 Arizona 20/40 Brady
Fluid on location: **No. of Tanks:** 3 **Strap:** 19', 18', 12' **Amount:** 980 **Usable:** 860

Perforations:
Depth: 1393-95, 1416-26, 1430-32 **Total Holes:** 42 **PBTD:** 1437' KB
Shots per foot: 3 **EHD:** .34" **PT to 3500 psi - OK**

Breakdown:
Acid: None **Comments:** No obvious break
Balls: None
Pressure: **Rate:**

Stimulation:
ATP: 1500 psi **AIR:** 19 BPM
MTP: 1900 psi **MIR:** 21 BPM

	Sand Stage	Pressure	Rate	Volume
ISIP: 827	pad	1900	19.6	70 2096
5 min: 680	0.5 ppg	1760	20.7	70 2033
10 min: 644	1 ppg	1628	20.2	70 1891
15 min: 632	2 ppg	1545	20.8	70 1862
	3 ppg	1410	18.3	70 1780
	4 ppg	1417	17.6	73 1750

Job Complete at: 1150 hrs. **Date:** 12/15/2006 **Start flow back:** 1200 hrs 12/16/06 with 1070 psi
Total Fluid Pumped: 292 bbls
Total Sand Pumped: 5,000# & 45,000# **Total Sand on Formation:** 50,000#
Total Nitrogen Pumped: 298,885

Notes:

All frac fluid was fresh water with 2% KCl, biocide, 20#/1000 gal guar gel, borate crosslinker, foamer, surfactant, mutual solvent, enzyme and oxidizer breakers. The frac gradient based on the ISIP was 1.16 psi/ft. Lowered the injection rate during the 3 ppg stage due to a negative Nolte plot. The Nolte plot was slightly negative for all of the sand stages.

Signature Paul Thompson

FRACTURE TREATMENT REPORT

Operator: Thompson Engineering Well Name: Thomas #100
Date: 15-Dec-06
Field: Fulcher Kutz PC & Basin FTC Location: 30/29N/11W County: San Juan State: CO
Stimulation Company: Blue Jet and Key PPS Supervisor: Paul Thompson

Stage #: 3/3 Upper coals
Sand Design: 5,000 & 45,000# Weight ticket: On Location Size/type: 20/40 Brady
Fluid on location : No. of Tanks: 2 Strap: 9.5' & 10' Amount: 570 Usable: 490

Perforations:
Depth: 1163-66, 1185, 1190, 1218, 1230-32, 1283-93, 1303-05 Total Holes: 60 PBD: 1370' KB
Shots per foot: 3 EHD: .34" PT to 3500 psi
Slight leak 100 #/min

Breakdown:
Acid: None Comments: Formation broke at 2260 psi
Balls: None
Pressure: Rate:

Stimulation:
ATP: 1500 psi AIR: 17 BPM
MTP: 1160 psi MIR: 17 BPM

	Sand Stage	Pressure	Rate	N2 Quality	ISIP
ISIP: 1200	pad	1665	17.1	70	1921
5 min: 1292	0.5 ppg	1600	17.3	70	1874
10 min: 1295	1 ppg	1568	17	71	1855
15 min: 1289	2 ppg	1486	17.2	70	1811
	3 ppg	1450	17.1	71	1816
	4 ppg	1430	16.9	70	1802

Job Complete at: 1545 hrs. Date: 12/15/2006 Start flow back: 1200 hrs 12/16/06
Total Fluid Pumped: 275 bbls with 1070 psi
Total Sand Pumped: 5,000# & 45,000# Total Sand on Formation: 50,000#
Total Nitrogen Pumped: 262,339 SCF

Notes:

All frac fluid was fresh water with 2% KCl, biocide, 20#/1000 gal guar gel, borate crosslinker, foamer, surfactant, mutual solvent, enzyme and oxidizer breakers. The frac gradient based on the ISIP was 1.33 psi/ft. The Nolte plot was relatively flat throughout the job.

Signature Paul Thompson