

Oil Cons.  
N.M. DIV-Dist. 2  
1301 W. Grand Avenue  
Artesia, NM 88210  
**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT --" for such proposals

**SUBMIT IN TRIPLICATE**

**RECEIVED**

NOV - 7 2003

**OCD-ARTESIA**

1. Type of Well: ☒ OIL WELL ☐ GAS WELL ☐ OTHER

2. Name of Operator  
CHEVRON USA INC

3. Address and Telephone No. 15 SMITH ROAD, MIDLAND, TX 79705 915-687-737

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit Letter E : 1825' Feet From The NORT Line and 900' Feet From The

WEST Line Section 1 Township 23-S Range 28-E

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and Number  
LENTINI "1" FEDERAL  
3

9. API Well No.  
30-015 27535

10. Field and Pool, Exploaratory Area  
HERRADURA BEND; DELAWARE, EAST

11. County or Parish, State  
EDDY , NM

12. **Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data**

**TYPE OF SUBMISSION**

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

**TYPE OF ACTION**

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ OTHER: ADD PAY & FRAC STIM  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

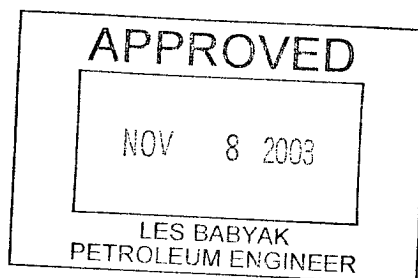
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

CHEVRON U.S.A. INTENDS TO ADD DELAWARE PAY & FRAC STIMULATE THE SUBJECT WELL AS PART OF THE LENTINI WATERFLOOD PROGRAM.

THE ADDED PAY WILL BE CONVERTED TO WATER INJECTION SERVICE UPON REGULATORY APPROVAL.

THE INTENDED PROCEDURE AND WELLBORE DIAGRAM IS ATTACHED FOR YOUR APPROVAL.



**SUBJECT TO  
LIKE APPROVAL  
BY NMOC**

14. I hereby certify that the foregoing is true and correct

SIGNATURE Denise Leake TITLE Regulatory Specialist DATE 10/31/2003

TYPE OR PRINT NAME Denise Leake

(This space for Federal or State office use)

APPROVED

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**Lentini Federal 1 #3**  
Add Delaware Pay & Fracture Stimulate

1825' FNL & 900' FWL  
Section 1, T23S, R28E  
Eddy County, New Mexico

Date: August 27, 2003  
WBS No:  
Cost Center: UCKF10100

Elevation: 3056' GL 3068' KB

TD: 6385' PBTD: 6308'

Surface: 8-5/8", 24#, K-55 casing at 320' w/ 200 sx, circ.

Production: 5-1/2", 15.5# K-55 casing at 6385' w/ 1600 sx, circ.

Open Perforations: Delaware (2 SPF) 5570'-5582', 5920'-5944', 6148'-6164'.

Tubing: 2-7/8", 6.5#, N-80, (178 jts) TAC at 5504', 20 jts tbg, SN at 6122', perf sub w/ MAJ/BPOB at 6158'.

Rods/Pump: 1-1/4" Insert Pump on 76 rod string.

Comments: 1. Use 2% KCL for workover fluid.

1. MIRUPU. Unseat pump and TOOH w/ rods and pump.
2. ND Tree. NU 5M BOP's. Release TAC. TOOH w/ 2-7/8" tubing, standing back.
3. RU Baker. Perf Delaware w/ 2 JSPF, 120<sup>0</sup> from 6136'-44' (17 holes), 6066'-80' (29 holes), 6039'-60' (43 holes), 5957'-76' (39 holes), 5878'-99' (43 holes) and 5866'-74' (37 holes) using 3-1/8" Slick Guns. RD Baker.
4. TIH treating packer and RBP on 2-7/8" workstring. Set packer and RBP to isolate new and existing perms for acid as per schedule in Step 5.
5. RU Schlumberger. Acidize new and existing perms w/ 15% HCL w/ bio-ball sealers for divert at 3-4 BPM as per following schedule and attached design dated 9/5/03. Flush w/ 2% KCL.

<u>Stage</u>	<u>Perforations</u>	<u>Acid Volume</u>	<u>Diversion &amp; Rate</u>
1	6136'-6164'	2400 gals	No balls, 2-3 bpm
2	6039'-6080'	1800 gals	105 balls, 4-5 bpm
3	5957'-5976'	1900 gals	No balls, 2-3 bpm
4	5920'-5944'	1200 gals	No balls, 2-3 bpm
5	5866'-5899'	1500 gals	87 balls, 4-5 bpm
6	5570'-5582'	1000 gals	No balls, 2-3 bpm
TOTAL		9800 gals	192 ball sealers

Lentini Federal 1 #3

Add Delaware Pay and Fracture Stimulate

August 27, 2003

6. TOOH w/ packer and RBP.
7. RU Baker. Set CIBP at 6100'. RD Baker.
8. Fracture stimulate Delaware perms 6039'-60' and 6066'-80' down 2-7/8" workstring w/ 17,500 gals 30# x-linked gel and 50,000# 16/30 100% resin coated sand at 15 BPM as per attached design dated 9/3/03. Pump 2% KCL down annulus during treatment at 0.5 BPM. Anticipated max surface treating pressure is 2700 psi. Flush to top perf w/ 1500 gals 30# linear gel. RD Schlumberger. Shut-in well overnight to allow resin coated sand to cure.
9. Release packer & TOOH w/ workstring.
10. RU Baker. Set CIBP at 5910'. RD Baker.
11. TIH treating packer on 2-7/8" workstring. Set packer at 5830'.
12. RU Schlumberger. Fracture stimulate Delaware perms 5866'-74' and 5878'-99' down 2-7/8" workstring w/ 17,500 gals 30# x-linked gel and 50,000# 16/30 100% resin coated sand at 20 BPM as per attached design dated 9/3/03. Pump 2% KCL down annulus during treatment at 0.5 BPM. Anticipated max surface treating pressure is 3200 psi. Flush to top perf w/ 1465 gals 30# linear gel. RD Schlumberger. Shut-in well overnight to allow resin coated sand to cure.
13. Release packer & TOOH w/ workstring.
14. MIRU power swivel, reverse unit and foam air unit. TIH w/ 4-3/4" bit and drill collars on 2-7/8" workstring. Clean out sand and drill out CIBP's at 6100' and 5910'. Clean out hole to PBDT at 6308' (or minimum 50' below bottom perf). TOOH & lay down bit and drillstring. \*\*\*James, can we use bit & bailer instead of foam air?
15. TIH w/ 2-7/8" production tubing. Set SN at least 50' below bottom perf.
16. Swab to evaluate production rates. Forward swab results to Felix Trevino for pump design.
17. ND BOP's. NU tree.
18. TIH w/ rods and pump and hang well on. RDMOPU.
19. Return well to production and place on test.

Lentini Federal 1 #3  
Add Delaware Pay and Fracture Stimulate  
August 27, 2003

### **List of ChevronTexaco Contacts**

OS.	Danny Lovell	Office: 505.887.5676 Cell: 505.390.0866
Lease Operator	Joe Garcia	Cell: 505.631.9016
Lease Operator	Earnest Roberts	Cell: 505.631.9019
Engineer.	Joe Williams	Office: 432.687.7193 Cell: 432.894.5022
Artificial Lift Rep.	Felix Trevino	Office: 505.394.1245 Cell: 505.390.7180

### **EQUIPMENT AND FLUID REQUIREMENTS**

#### **WIRELINE SERVICES**

Baker Atlas. Hobbs 505.392.7593  
Perf charges are HSC-4000-311T w/ 0.38" diameter, 21" penetration.

#### **DELAWARE ACID JOB: (6 Stages as per Step 5 of Procedure)**

Schlumberger to Provide Hobbs 505.393.6186

- 9800 gals. 15% HCL w/ additives as per attached specifications dated 9/5/03.
- 192 biodegradable ball sealers (1.15 SG, 7/8" OD)

ChevronTexaco to Provide

- 2% KCL for flush

#### **DELAWARE FRACTURE STIMULATION 1: (6039'-60' & 6066'-80' per Step 8)**

Schlumberger to Provide Hobbs 505.393.6186

- Additives for 17,500 gal YF130ST fluid system for frac as per attached specs 9/3/03.
- Additives for 1500 gal WF130 fluid system for flush as per attached specs 9/3/03.
- 50,000 lbs 16/30 CR4000 (100% Curable Resin Coated Sand)

ChevronTexaco to Provide

- One frac tank loaded w/ 480 bbls. fresh water for gelled fluids
- One frac tank loaded w/ 120 bbls. fresh water for prime up, flush and bottoms
- Kill truck loaded w/ 2% KCL to pump down backside during job.

#### **DELAWARE FRACTURE STIMULATION 2: (5866'-74' and 5878'-99' per Step 12)**

Schlumberger to Provide Hobbs 505.393.6186

- Additives for 17,500 gal YF130ST fluid system for frac as per attached specs 9/3/03.
- Additives for 1465 gal WF130 fluid system for flush as per attached specs 9/3/03.
- 50,000 lbs 16/30 CR4000 (100% Curable Resin Coated Sand)

ChevronTexaco to Provide

- One frac tank loaded w/ 480 bbls. fresh water for gelled fluids
- One frac tank loaded w/ 120 bbls. fresh water for prime up, flush and bottoms
- Kill truck loaded w/ 2% KCL to pump down backside during job.

## WELL DATA SHEET

Lentini Federal 1 #3  
1825' FNL & 900' FWL  
Section 1, T23S, R28E  
Eddy County, NM

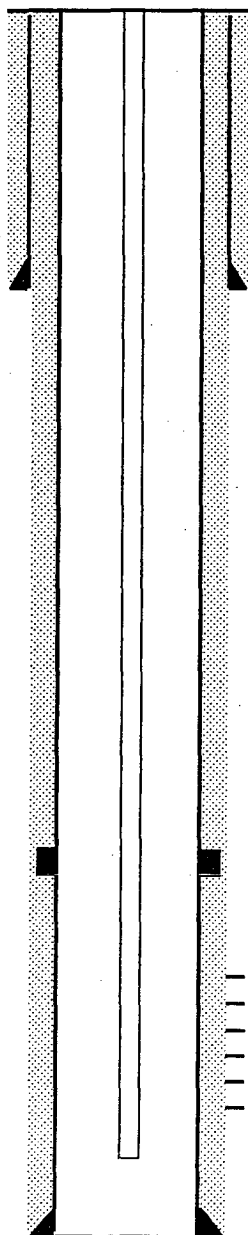
API NO: 30-015-27535  
CHEVNO: OV7886

GL: 3056'  
KB: 3068'  
DF: 3067'

### Completion & Workover Data

02/07/94 - Spud.  
02/94 - Spot 55 gal acetic acid. Perf 6148'-6164' w/ 2 SPF. Perfs would not break. Spot 55 gal 15% HCL & broke perfs. Frac down 5-1/2" csg. w/ 9,100 gal 40# Linear Gel and 16,300 lbs 16/30 BS & 3000# RCS. Spot 1000 gals 15% HCL. Set RBP at 6050'. Perf 5920'-44', 2 SPF. Frac down csg w/ 17,000 gal 40 lb linear gel, 35,200 lbs 16/30 BS & 5,000 lbs 16/30 RCS. C/O sand & POOH w/ RBP from 6050'. C/O sand to 6385'. Put on pump.  
11/94 - POOH w/ rods & pump. install plunger lift. Put back on rods & pump when?  
2/96 - POOH w/ rods & pump. Set RBP at 5702'. Pickle tbq & spot 500 gals 15% HCL. Perf 5570'-82' w/ 2 SPF. Frac w/ 8,000 gal linear gel & 12,750# 16/30 BS & 7,500 # 16/30 RCS. C/O sand & POOH w/ RBP. Run prod eqpt.  
2/97 - Hot water down tbq. POOH w/ prod eqpt. Perf 5358'-66' w/ 2 SPF. Set RBP at 5805'. Acid w/ 2500 gals. Frac w/ 5150 gal 40# lin. gel, 850# 100 mesh & 6750 # RCS. Ran prod eqpt. NOTE: RBP at 5805' left in hole.  
6/97. Pulled RBP from 5805'. Re-ran prod. eqpt.

8-5/8", 24# J-55 Casing at 320'  
w/ 200 sx., circ.



Existing Perfs (Delaware)

5570'-82' (2 SPF)

5920'-44' (2 SPF)

6148'-64' (2 SPF)

5-1/2", 15.5# K-55 at 6385'  
w/1600 sx., circ.

2-7/8", 6.5# J-55 tubing w/ TAC at 5393', SN at 6085',  
perf sub, MAJ/BPOB at 6121'. Ran 11/01.  
Records indicate last pulled 11/01. Check files for latest tubing tally.

PB: 6308' ?  
TD: 6385'