

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**

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

NOV - 7 2003

OCD-ARTESIA

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 C : 330' Feet From The NORTH Line and 1650' Feet From The

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

5. Lease Designation and Serial No.

6. If Indian, Alottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and Number  
LENTINI 1 FEDERAL

2

9. API Well No.  
30-015-27534

10. Field and Pool, Exploatory 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.)

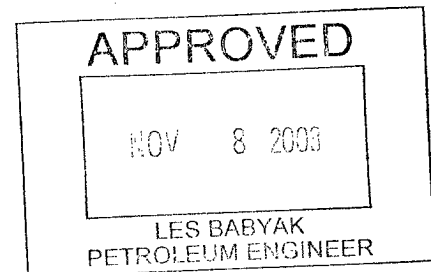
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to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

CHEVRON U.S.A. INTENDS TO ADD DELAWARE PAY AND 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 NMOCD**



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 #2**  
Add Delaware Pay & Fracture Stimulate

330' FNL & 1650' FWL  
Section 1, T23S, R28E  
Eddy County, New Mexico

Date: September 5, 2003  
WBS No:  
Cost Center: UCKF10100

Elevation: 3070' GL 3082' KB

TD: 6400' PBTD: 6325'

Surface: 8-5/8", 23#, M-50 casing at 517' w/ 600 sx. TOC at surface.

Production: 5-1/2", 15.5# K-55 casing at 6400' w/ DV at 3182' w/ 1350 sx, circ.

Open Perforations: Delaware (2 SPF) 5220'-35', 5358'-66', 5905'-11', 5958'-68', 6080'-94', (1 SPF) 6180'-94'.

Tubing: 2-3/8", 4.7#, J-55, (182 jts) TAC at 5625', 14 jts tbg, SN at 6062', Odessa separator, MAJ/BPOB at 6106'. Ran 3/11/99.

Rods/Pump: 1-1/4" Insert Pump on 7/8" rod string.

Comments: 1. Use 2% KCL for workover fluid.  
2. Well has history of paraffin problem.

1. MIRUPU. Unseat pump and TOO H w/ rods and pump.
2. ND Tree. NU 5M BOP's. Release TAC. TOO H w/ 2-3/8" tubing, standing back...
3. RU Baker. Perf Delaware w/ 2 JSPF, 120<sup>0</sup> from 6194'-6203' (19 holes), 6134'-48' (29), 6062'-80' (37), 6047'-52' (11), 5978'-6003' (51), 5943'-58' (31), 5896'-5905' (19) 5887'-91' (9) and 5633'-44' (23) 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 perfs for acid as per schedule in Step 5.
5. RU Schlumberger. Acidize new and existing perfs 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. Total 9200 gals acid and 267 ball sealers.

<u>Stage</u>	<u>Perforations</u>	<u>Acid Volume</u>	<u>Diversion &amp; Rate</u>
1	6180'-6203'	1500 gals	No balls, 2-3 bpm
2	6134'-6148'	1000 gals	42 balls, 4-5 bpm
3	6047'-6096'	2000 gals	117 balls, 4-5 bpm
4	5978'-6003'	1300 gals	75 balls, 4-5 bpm
5	5943'-5968'	1300 gals	No balls, 2-3 bpm
6	5887'-5911'	1300 gals	No balls, 2-3 bpm
7	5633'-5644'	800 gals	33 balls, 4-5 bpm

Lentini Federal 1 #2

Add Delaware Pay and Fracture Stimulate

September 5, 2003

6. Swab test perfs 5633'-44' after acid to evaluate for fracture stimulation.
7. TOOH w/ packer and RBP. TIH w/ packer and set at approximately 6110'.
8. Fracture stimulate Delaware perfs 6134'-48' and 6180'-6203' 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 9/4/03. Pump 2% KCL down annulus during treatment at 0.5 BPM. Anticipated max surface treating pressure is 2650 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 6110'. RD Baker.
11. TIH treating packer on 2-7/8" workstring. Set packer at 6050'.
12. RU Schlumberger. Fracture stimulate Delaware perfs 6047'-52' and 6062'-94' 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 9/4/03. Pump 2% KCL down annulus during treatment at 0.5 BPM. Anticipated max surface treating pressure is 3350 psi. Flush to top perf w/ 1500 gals 30# linear gel. RD Schlumberger. Shut-in well overnight to allow resin coated sand to cure.
13. Release packer & TOOH w/ workstring.

NOTE: If perfs 5633'-44' are to be fracture stimulated based on results of swab test in Step 6 of procedure, continue to Step 14. If perfs are not to be fracture stimulated, skip to Step 18.

14. RU Baker. Set CIBP at 5675'. RD Baker.
15. TIH treating packer on 2-7/8" workstring. Set packer at 5600'.
16. RU Schlumberger. Fracture stimulate Delaware perfs 5633'-44' down 2-7/8" workstring w/ 9000 gals 30# x-linked gel and 27,000# 16/30 100% resin coated sand at 18 BPM as per attached design dated 9/4/03. Anticipated max surface treating pressure is 3200 psi. Flush to top perf w/ 1400 gals 30# linear gel. RD Schlumberger. Shut-in well overnight to allow resin coated sand to cure.
17. Release packer & TOOH w/ workstring.
18. 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 at 5675' (if necessary) and 6110'. Clean out hole to PBTD at 6325'. TOOH & lay down bit and drillstring. \*\*\*James, can we use bit & bailer instead of foam air?

Lentini Federal 1 #2  
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September 5, 2003

19. TIH w/ 2-7/8" production tubing. Set SN at least 50' below bottom perf.
20. Swab to evaluate production rates. Forward swab results to Felix Trevino for pump design.
21. ND BOP's. NU tree.
22. TIH w/ rods and pump and hang well on. RDMOPU.
23. Return well to production and place on test.

**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

Lentini Federal 1 #2  
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September 5, 2003

**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: (7 Stages as per Step 5 of Procedure)**

Schlumberger to Provide

Hobbs 505.393.6186

- 9200 gals. 15% HCL w/ additives as per attached specifications dated 9/5/03.
- 267 biodegradable ball sealers (1.15 SG, 7/8" OD)

ChevronTexaco to Provide

- 2% KCL for flush

**DELAWARE FRACTURE STIMULATION 1: (6134'-48' & 6180'-6203' per Step 8)**

Schlumberger to Provide

Hobbs 505.393.6186

- Additives for 17,500 gal YF130ST fluid system for frac as per attached specs 9/5/03.
- Additives for 1500 gal WF130 fluid system for flush as per attached specs 9/5/03.
- 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 pump down backside during job.

**DELAWARE FRACTURE STIMULATION 2: (6047'-52' and 6062'-94' per Step 12)**

Schlumberger to Provide

Hobbs 505.393.6186

- Additives for 17,500 gal YF130ST fluid system for frac as per attached specs 9/4/03.
- Additives for 1500 gal WF130 fluid system for flush as per attached specs 9/4/03.
- 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 3: (5633'-44' if Necessary, See Step 6)**

Schlumberger to Provide

Hobbs 505.393.6186

- Additives for 9000 gal YF130ST fluid system for frac as per attached specs 9/4/03.
- Additives for 1400 gal WF130 fluid system for flush as per attached specs 9/4/03.
- 27,000 lbs 16/30 CR4000 (100% Curable Resin Coated Sand)

ChevronTexaco to Provide

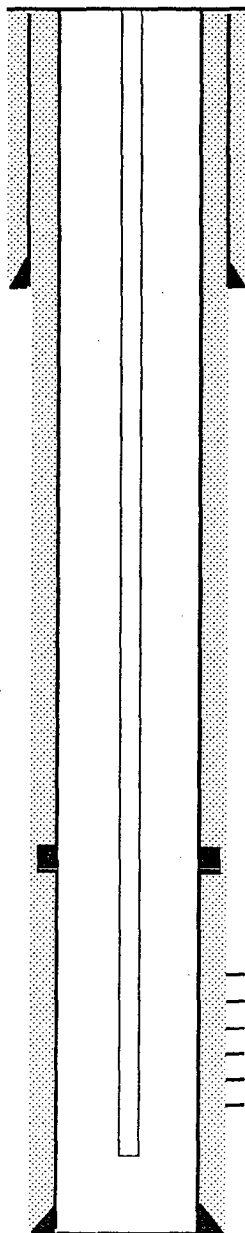
- One frac tank loaded w/ 300 bbls. fresh water for gelled fluids, prime up and flush

## WELL DATA SHEET

Lentini Federal 1 #2  
330' FNL & 1650' FWL  
Section 1, T23S, R28E  
Eddy County, NM

API NO: 30-015-27534  
CHEVNO: OV7885

8-5/8", 23# M-50 Casing at 517'  
w/ 600 sx. TOC 115' (TS).  
200 sx via 1" down annulus to surface.



GL: 3070'  
KB: 3082'  
DF: 3081'

### Completion & Workover Data

08/03/93 -Spud.  
08/93 - Perf 6180'-6194' w/ 1 SPF, 15 Bullet Holes. Acid w/ 1500 gal 7.5% NEFe HCl w/ ball sealers. Frac down 2 7/8" Tbg. w/ 10,500 gal 40# Linear Gel and 17,500 lbs 16/30 sand. Tag snd 6270', Swab lw + 509 bbls. Final 1% oil. Spot snd plug to 6137'.  
9/93- Perf 6080' to 6096', 2 SPF. Acid w/ 1500 gal 15% NEFe HCl w/ ball sealers. Swabbed 86 bbls, 100% wtr. Run RBP, set @ 6119'. Swab 62 bbls, 35-40% oil last runs. Re-set RBP at 6050'. Perf 5905' to 5911' w/ 2 SPF. Acid w/ 1500 gal 7.5% HCl w/ ball sealers. Swab and flow 121 bbls in 12 hrs., 50% oil. Run pre temp and GR. Pump 95 bbls pre pad and 130 bbls gel pad. Run TS and GR logs. Frac perfs 5905' to 5911' w/ 28,000 gal 40 lb linear gel, 51,500 lbs 16/30 Brady sand and 8,000 lbs 16/30 RCS down 2 7/8" tbg. Run after frac logs. Flowed & Swabbed. 154 BLTR. Tag snd at 5915', C/O to RBP at 6050'. Put on pump.  
09/24/93 - Pumping 70 BOPD, 214 BWPD, 295 MCFGPD. Stayed in test.  
11/93 - POOH w/ prod. equip. Tag sand 6130', wash sand & POOH w/ RBP at 6050'. C/O to 6325'. Run prod. Eq.  
3/96- POOH w/ prod eqpt. Rods coated w/ paraffin. Circ tbg & csg w/ hot water. Pickle tbg w/ 400 gals acid. Set RBP at 6033'. Perf 5958'-68' w/ 2 SPF. Acid w/ 750 gals. Frac w/ 18,000 gal x-link pad, 15,400 gal linear gel & 48,000# 16/30 BS & 12,000 # RCS. POOH w/ RBP. Run prod eqpt.  
2/97- Hot water down tbg. 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.

### Existing Perfs (Delaware)

5220'-35' (2 SPF)  
5358'-66' (2 SPF)  
5905'-11' (2SPF)  
5958'-68' ( 2 SPF)  
6080'-94' (2 SPF)  
6180'-94' (1 SPF)

5-1/2", 15.5# K-55 at 6400'  
w/ DV at 3182' w/ 700 sx 1st stage  
& 650 sx 2nd stage, circ.

2-7/8", 6.5# J-55 tubing w/ TAC at 5162', SN at 6234'.  
perf sub, MAJ/BPOB at 6270. Ran 9/99.  
Records indicate last pulled 7/01. Check files for latest tubing tally.

PB: 6325'  
TD: 6400'