

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Oil Cons.
N.M. DIV-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

RECEIVED

2003 DEC 30 AM 9 14

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Chevron U.S.A. Inc.

3a. Address

15 Smith Road, Midland Texas 79705

3b. Phone No. (include area code)

(915) 687-7375

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

Unit Letter D, 380' FNL & 990' FWL, SEC 12 (NW/4 NW/4), T-23-S, R-28-E

5. Lease Serial No.

NM-91078

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

OFFICE

8. Well Name and No.

Lentini 12 Federal No. 18

9. API Well No.

30-015-28437

10. Field and Pool, or Exploratory Area

Herradura Bend; Delaware, East

11. County or Parish, State

Eddy NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

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

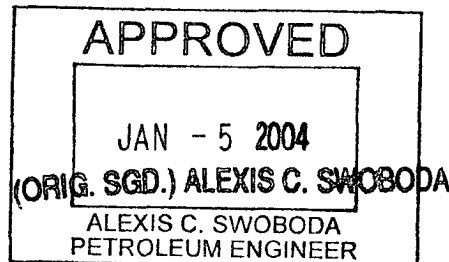
TYPE OF ACTION

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other <u>Add Pay & Frac Stim</u> |
| <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

CHEVRON U.S.A. INC. intends to add Delaware pay and fracture stimulate the subject well. The well was drilled and completed in 1995 as a Delaware producer. Well is currently on production making 2 BOPD. The workover will open pay which is proven productive in offset wells, recovering additional reserves and extending the economic life of the well.

The intended procedure and wellbore diagram is attached for your approval.



14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Laura Skinner

Title

Regulatory Specialist

Date 12-29-03

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, 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 12 #18
Add Delaware Pay & Fracture Stimulate

380' FNL & 990' FWL
Section 12, T23S, R28E (NW/4 NW/4)
Eddy County, New Mexico

Date: December 15, 2003

WBS No:

Cost Center: UCKF10100

API #: 30-015-28437

Elevation: 3015' GL 3027' KB

TD: 6382' PBTD: 6314'

Surface: 8-5/8", 23#, WC-50 STC casing at 279' w/ 368 sx. TOC at surface.

Production: 5-1/2", 15.5# K-55 casing at 6382' w/ 1250 sx, circ.

Open Perforations: Delaware (2 SPF) 5890 – 5920'

Tubing: 2-3/8", 4.7#, J-55 8rd, (184 jts) TAC at 5761', TAC @ 5761, 1 jt tbg, SN at 5858', 1 perforated sub 2 3/8" 4.7#, MAJ/BPOB at 5895'.

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

Comments: 1. Use 2% KCL for work-over fluid.
2. LNT 1 #2 and 3 both had **paraffin** problems while trying to pull tbg.

1. MIRUPU. Unseat pump and TOOH w/ rods and pump.
2. ND Tree. NU 3M BOP's. Release TAC. TOOH w/ 2-3/8" tubing, standing back.
3. RIH w/bit and scraper.
4. RU Baker. RIH w/CBL. Log at 0 psi and 1000 psi. If log appears questionable, contact Chad Stallard immediately. (432)687-7356 or (432) 699-1636.
5. If CBL is normal, RU Baker Perf Delaware w/ 2 JSPF, 120⁰ from 6176'-6229' (106 holes), 6101'-08' (14), 6069'-78' (18), 6013'-22' (18), 5998'-6007' (18), 5924'-38' (28), 5841'-5867' (52), 5751'-67' (32), 4828' – 38' (20), 4788' – 4804' (32) and 4770' – 4782' (24). 362 holes total.
6. 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 7.
7. 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 12/1/2003. Flush w/ 2% KCL. Total 9000 gals acid and 364 ball sealers.

<u>Stage</u>	<u>Perforations</u>	<u>Acid Volume</u>	<u>Diversion & Rate</u>
1	6176'-6229'	2700 gals	150 balls, 4-5 bpm

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2	6069'-6108'	800 gals	40 balls, 4-5 bpm
3	5998'-6022'	1000 gals	54 balls, 4-5 bpm
4	5890'-5938'	2200 gals	0 balls, 2-3 bpm
5	5841'-5867'	1500 gals	75 balls, 4-5 bpm
6	5751'-5767'	800 gals	45 balls, 4-5 bpm
7	4828'-4838'	500 gals	20 balls, 4-5 bpm
8	4770'-4804'	1400 gals	40 balls, 4-5 bpm

8. Swab test perfs 5751' -- 5767' after acid to evaluate for fracture stimulation.
9. TOOH w/ packer and RBP. TIH w/ packer and set at approximately 6150'.
10. Fracture stimulate Delaware perfs 6176'-6229' down 2-7/8" workstring w/ 20,000 gals 30# x-linked gel and 60,000# 16/30 100% resin coated sand at 15 BPM as per attached design dated 11/17/03. Pump 2% KCL down annulus during treatment at 0.5 BPM. Anticipated max surface treating pressure is 2800 psi. Flush to top perf w/ 1529 gals 30# linear gel. RD Schlumberger. Shut-in well overnight to allow resin coated sand to cure.
11. Release packer & TOOH w/ workstring.
12. RU Baker. Set CIBP at 6150'. RD Baker.
13. TIH treating packer on 2-7/8" workstring. Set packer at 5950'
14. RU Schlumberger. Fracture stimulate Delaware perfs 5998'-6108' down 2-7/8" workstring w/ 32,500 gals 30# x-linked gel and 101,000# 16/30 100% resin coated sand at 15 BPM as per attached design dated 11/17/03. Pump 2% KCL down annulus during treatment at 0.5 BPM. Anticipated max surface treating pressure is 2600 psi. Flush to top perf w/ 1500 gals 30# linear gel. RD Schlumberger. Shut-in well overnight to allow resin coated sand to cure.
15. Release packer & TOOH w/ workstring.

 NOTE: If perfs 5751'-67' are to be fracture stimulated based on results of swab test in Step 6 of procedure, continue to Step 16. If perfs are not to be fracture stimulated, skip to Step 20.
16. RU Baker. Set CIBP at 5800'. RD Baker.
17. TIH treating packer on 2-7/8" workstring. Set packer at 5720'
18. RU Schlumberger. Fracture stimulate Delaware perfs 5751'-67' down 2-7/8" workstring w/ 10,500 gals 30# x-linked gel and 32,000# 16/30 100% resin coated sand at 10 BPM as per attached design dated 11/17/03. Anticipated max surface

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treating pressure is 2200 psi. Flush to top perf w/ 1422 gals 30# linear gel. RD Schlumberger. Shut-in well overnight to allow resin coated sand to cure.

19. Release packer & TOOH w/ workstring.
20. RU Baker. Set CIBP at 4900'. RD Baker
21. TIH Treating Packer on 2 7/8" workstring. Set packer at 4720'.
22. RU Schlumberger. Fracture Stimulate Delaware perms 4770' – 4838' down 2 7/8" workstring w/ 25,000 gals 30# x-linked gel and 81,000# 16/30 100% resin coated sand at 15 BPM as per attached design dated 12/15/2003. Anticipated max surface treating pressure is 2775 psi. Flush to top perf w/ 1213 gals 30# linear gel. RD Schlumberger. Shut in well overnight to allow resin coated sand to cure.
23. Swab perms 4770' – 4838'. Report results to Chad Stallard. I would like to evaluate this zone on its own prior to placing it in communication with the other zones in the well.
24. Release packer and TOOH w/workstring.
25. 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 5800' (if necessary) and 6150'. Clean out hole to PBTD at 6314'. TOOH & lay down bit and drillstring. ***James, can we use bit & bailer instead of foam air?
26. TIH w/ 2-7/8" production tubing. Set SN at least 50' below bottom perf.
27. Swab to evaluate production rates. Forward swab results to Felix Trevino for pump design.
28. ND BOP's. NU tree.
29. TIH w/ rods and pump and hang well on. RDMOPU.
30. Return well to production and place on test.

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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
Engineer	Chad Stallard	Office: 432.687.7356 Home: 432.699.1636
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: (7 Stages as per Step 7 of Procedure)

Schlumberger to Provide Hobbs 505.393.6186

- 9000 gals. 15% HCL w/ additives as per attached specifications dated 12/1/03.
- 364 biodegradable ball sealers (1.15 SG, 7/8" OD)

ChevronTexaco to Provide

- 2% KCL for flush

DELAWARE FRACTURE STIMULATION 1: (6176'-6229' per Step 10)

Schlumberger to Provide Hobbs 505.393.6186

- Additives for 20,000 gal YF130ST fluid system for frac as per attached specs 11/17/03.
- Additives for 1530 gal WF130 fluid system for flush as per attached specs 11/17/03.
- 60,000 lbs 16/30 CR4000 (100% Curable Resin Coated Sand)

ChevronTexaco to Provide

- One frac tank loaded w/ 450 bbls. fresh water for gelled fluids

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- One frac tank loaded w/ 150 bbls. fresh water for prime up, flush and bottoms
- Kill truck loaded w/ 2% KCL pump down backside during job.

DELAWARE FRACTURE STIMULATION 2: (5998'-6108' per Step 14)

Schlumberger to Provide

Hobbs 505.393.6186

- Additives for 32,500 gal YF130ST fluid system for frac as per attached specs 11/17/03.
- Additives for 1479 gal WF130 fluid system for flush as per attached specs 11/17/03.
- 101,000 lbs 16/30 CR4000 (100% Curable Resin Coated Sand)

ChevronTexaco to Provide

- One frac tank loaded w/ 450 bbls. fresh water for gelled fluids
- One frac tank loaded w/ 450 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: (5751'-67' if Necessary, See Step 8)

Schlumberger to Provide

Hobbs 505.393.6186

- Additives for 10,500 gal YF130ST fluid system for frac as per attached specs 11/17/03.
- Additives for 1422 gal WF130 fluid system for flush as per attached specs 11/17/03.
- 32,000 lbs 16/30 CR4000 (100% Curable Resin Coated Sand)

ChevronTexaco to Provide

- One frac tank loaded w/ 350 bbls. fresh water for gelled fluids, prime up and flush
- Kill truck loaded w/ 2% KCL to pump down backside during job.

DELAWARE FRACTURE STIMULATION 4: (4770'-4838' per Step 22)

Schlumberger to Provide

Hobbs 505.393.6186

- Additives for 25,000 gal YF130ST fluid system for frac as per attached specs 11/17/03.
- Additives for 1213 gal WF130 fluid system for flush as per attached specs 11/17/03.
- 81,000 lbs 16/30 CR4000 (100% Curable Resin Coated Sand)

ChevronTexaco to Provide

- One frac tank loaded w/ 450 bbls. fresh water for gelled fluids
- One frac tank loaded w/ 450 bbls. fresh water for prime up, flush and bottoms
- Kill truck loaded w/ 2% KCL to pump down backside during job.

Well: Lentini 12 Federal #18

Field: Herradura Bend

Reservoir: Delaware (Brushy Canyon)

Location:

380' FNL & 990' FWL
 Section: 12 (NW/4 NW/4)
 Township: 23S
 Range: 28E Unit: D
 County: Eddy State: NM

Elevations:

GL: 3015'
 KB: 3027'
 DF: 3026'

Log Formation Tops

Lamar	2674'
Cherry Canyon	3565'
Brushy Canyon	4749'
Bone Spring	6252'

TUBING DETAIL - 11/17/97

184 jts - 2-3/8" 4.7# J-55 8rd tbq
 1 tbq anchor @ 5761'
 1 jts - 2-3/8" 4.7# J-55 8rd tbq
 1 2-3/8" SN @ 5858'
 1 perf sub- 2-3/8" 4.7# J-55 8rd tbq
 1 majt - 2-3/8" 4.7# J-55 8rd w/bpob

EOT landed @ 5895'

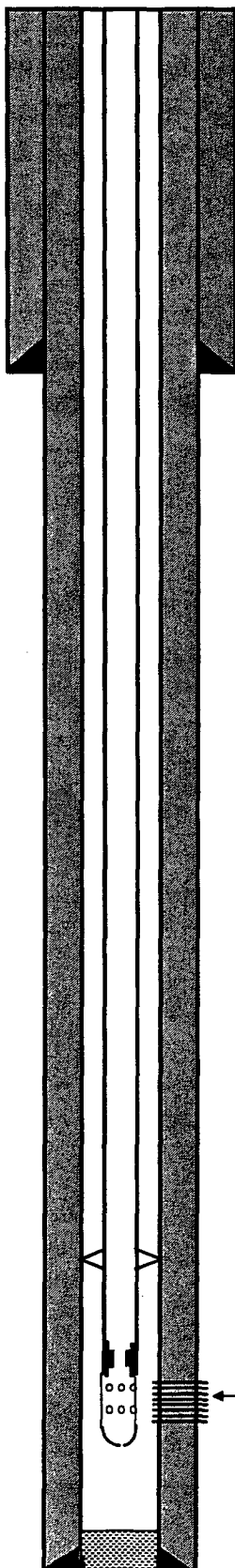
Rod Detail:

1 1-1/2" Polish Rod (26')
 1 Pony Rod N-97 (7/8" x 2')
 1 Pony Rod N-98 (7/8" x 8')
 93 7/8" N-97 Rods
 140 3/4" N-97 Rods
 1 20-125-RHBC-24-3-0.3-0.3
 JGEN 528 PA 60-R 5/11/99 FT
 1 1" x 15' gas anchor

TAC @ 5761'

SN @ 5858'
 EOT @ 5895'

COTD: 6314'
 PBTD: 6314'
 TD: 6382'

Current Wellbore Diagram**Well ID Info:**

Chevno: QY4053
 API No: 30-015-28437
 L5/L6:
 Spud Date: 5/6/95
 Rig Released: 5/16/95
 Compl. Date: 5/30/95

Surface Csg: 8 5/8", 23#, WC-50 STC

Set: @ 279' w/ 368 sx Class C cmt
 Hole Size: 12 1/4" to 280"
 Circ: Yes TOC: surface
 TOC By: Circulation (17 sx cmt)

Initial Completion:

Perf 5890-5920' (60 holes).

Frac 5890-5920' w/29,000 gal linear gel &
 74,000 # 16/30 SD & 15,000 # Super LC RC SD

Subsequent Workovers/Reconditionings/Repairs:**Prod. Csg: 5 1/2", 15.5 #, K-55 LTC**

Set: @ 6382' w/ 1250 sx Class C cmt
 Hole Size: 7 7/8" to 6382'
 Circ: Yes TOC: surface
 TOC By: Circulation (193 sx cmt)

Perfs
 5890-5920'

Status
 Brushy Canyon - open

By: W.P. Johnson

Updated: 10-20-03 by WAYN