Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR SO THE BUREAU OF LAND MANAGEMENT. BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

FORM APPROVED Budget Bureau No. 1004-0135

Expires:	March 31,	1993	
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	P4 /	.xpii 03.	Water or,	
1	5. Lease Designa	tion and	d Serial No.	

540397

Use "APPLICATION FOR I	6. If Indian, Alottee or Tribe Name			
SUBMIT IN	TRIPLICATE STEEL	7. If Unit or CA, Agreement Designation		
1. Type of Well: OIL GAS WELL O	THER	Well Name and Number NEFF 13 FEDERAL		
Name of Operator CHEVRON USA INC		2		
Address and Telephone No. 15 SMITH ROAD, MIDL	AND, TX 79705 915-	9. API Well No. 30-015-26165		
4. Location of Well (Footage, Sec., T., R., M., or Survey Desc Unit Letter H: 1980 Feet From The N	ription) NORTH Line and 660 Feet Fro	10. Field and Pool, Exploaratory Area om The LIVINGSTON RIDGE DELAWARE		
EAST Line Section 13 Town	nship 22S Range 31E	11. County or Parish, State EDDY , NEW MEXICO		
Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data				
TYPE OF SUBMISSION		TYPE OF ACTION		
Notice of Intent Subsequent Report Final Abandonment Notice	Abandonment Recompletion Plugging Back Casing Repair Atlering Casing OTHER: ADD PAY	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection & FRAC STIM Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)		
Describe Proposed or Completed Operations (Clearly state directionally drilled, give subsurface locations and measurements)		, including estimated date of starting any proposed work. If well is		

CHEVRON U.S.A. INTENDS TO ADD DELAWARE PAY & FRAC STIMULATE THE SUBJECT WELL.

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

14. I hereby certify that the foregoing is true and consect SIGNATURE	Deake	TITLE_	Regulatory Specialist		DATE	9/16/2003
TYPE OR PRINT NAME	Denise Leake					
(This space for Federal or State office use)						
APPROVED CONDITIONS OF APPROVAL, IF ANY:	TITLE			DATE		

Neff 13 Federal #2

Add Delaware Pay & Fracture Stimulate

1980' FNL & 660' FEL Section 13, T22S, R31E Eddy County, New Mexico

Date: May 15, 2003

WBS No:

Cost Center: BCPH71600

Elevation: 3612' GL 14' KB

<u>TD:</u> 8450' <u>PBTD:</u> 7880' (CIBP at 7900' w/ 20' cement)

Surface: 11-3/4", 42# H-40 at 838' w/ 675 sx, circ.

<u>Intermediate:</u> 8-5/8", 32# & 24# K-55 at 4520' w/ 1283 sx, circ. <u>Production:</u> 5-1/2", 17# & 15.5# J-55 at 8450' w/ DV at 5979' w/ 1635 sx. 1st stage circ 157 sx, 2nd stage no circ.

Open Perforations: Delaware 7126'-28', 7133'-35', 7154'-56', 7160' (2 SPF),

7726'-34' (6SPF)

Perforations Below CIBP: 7948'-68' (4 SPF)

Tubing: 2-7/8" w/ TAC at 7617', SN at 7812', SMA w/ purge valve at 7836'. Ran 10/00.

Rods/Pump: 1-1/2" Insert Pump on 86 rod string. Comments: 1. Use 2% KCL for workover fluid.

2. Junk in hole (bit cones and bottom of CIBP) at 8126'.

PROCEDURE

- 1. MIRUPU. Unseat pump and TOOH w/ rods and pump.
- 2. ND Tree. NU 3M BOP's. Release TAC. Tag PBTD at 7880' w/ 2-7/8" production tubing.
- 3. TOOH w/ 2-7/8" tubing, standing back. Inspect tubulars for scale. If scale is present, have chemical rep. collect samples for analysis and recommendation. If remedial action is required, it will be performed in Step 13 of procedure.
- 4. Clean out fill if necessary to complete perforating job in Step 5.
- 5. RU Baker. Perforate Delaware w/ 4 JSPF, 120⁰ phasing from 7844'-60' (64 holes), 7050'-59' (36 holes), 7032' 7037' (20 holes) and 7022' 7026' (16 holes) using 3-1/8" Slick Guns. RD Baker.
- 6. TIH treating packer on 2-7/8" production string. Set packer at approximately 7800'. NOTE: Open perfs above packer. Do not attempt to load backside.

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- 7. RU Schlumberger. Acidize perfs 7844'-60' w/ 1600 gals 7-1/2% HCL w/ ball sealers for divert at 6-7 BPM as per attached design dated 5/16/03. Flush to top perf w/ 2% KCL. Surge balls off perfs.
- 8. Swab/flow back load. Monitor for hydrocarbon presence and pH level. Notify contacts w/swab results. Determine if fracture stimulation is necessary based on swab results. NOTE: If fracture stimulation is required, proceed to Step 9. If fracture stimulation is not required, proceed to Step 10.
- 9. Fracture stimulate Delaware perfs 7844' 60' down 2-7/8" tubing w/ 9,540 gals 30# gel (6600 gal x-linked) and 20,200# 16/30 CR400 at 15 BPM as per attached design dated 8/21/03. Anticipated max surface treating pressure is 4000 psi. Flush to top perf w/ 1940 gals 30# linear gel. RD Schlumberger. Shut-in well overnight to allow resin coated sand to cure.
- 10. Kill well w/ 2% KCL if necessary. Release packer & TOOH w/ tubing.
- 11. TIH treating packer and RBP on 2-7/8" tubing. Set RBP at 7100' and packer at 7020'. Load backside w/ 2% KCL and test packer.
- 12. RU Schlumberger. Acidize perfs 7022' 26', 7032' 37' & 7050'-59' w/ 2000 gals 7-1/2% HCL at 6-7 BPM as per attached design dated 5/16/03. Flush to top perf w/ 2% KCL. Surge balls off perfs.
- 13. Swab/flow back load. Monitor for hydrocarbon presence and pH level. Notify contacts w/swab results. Determine if fracture stimulation is necessary based on swab results. If fracture stimulation is determined to be necessary proceed to step 14. If fracture stimulation is not required, proceed to step 15.
- 14. Fracture stimulate Delaware perfs 7022' 26', 7032' 37' & 7050' 59' down 2-7/8" tubing w/ 12,462 gals 30# gel (9700 gal x-linked) and 30,400# 16/30 CR400 at 15 BPM as per attached design dated 8/21/03. Anticipated max surface treating pressure is 4000 psi. Flush to top perf w/1762 gals 30# linear gel. RD Schlumberger. Shut-in well overnight to allow resin coated sand to cure.
- 15. If scale was found in Step 2, re-set RBP and packer to isolate perfs 7726'-34'. Treat perfs to remove scale as per chemical rep. recommendation. Re-set RBP and packer to isolate perfs 7126'-7160'. Treat perfs to remove scale as per chemical rep. recommendation.
- 16. Release packer, retrieve RBP and TOOH.
- 17. MIRU power swivel, reverse unit and foam air unit. TIH w/ 4-3/4" bit and drill collars on 2-7/8" tubing. Clean out sand to PBTD at 7880'. Circulate wellbore clean w/ foam. TOOH & lay down bit and drillstring.

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Add Delaware Pay and Fracture Stimulate

May 15, 2003

- 18. TIH w/2-7/8" production tubing. Scanilog tubing while TIH. Replace joints as necessary. Set SN at 7812'.
- 19. ND BOP's. NU tree.
- 20. TIH w/rods and pump as per Felix Trevino recommendation. Hang well on. RDMOPU.
- 21. 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

Mike Parker

Cell: 505.631.9017

Lease Operator

Larry Rice

Cell: 505.631.9018

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 1:(7844'-7860')

Schlumberger to Provide

Hobbs 505.393.6186

- 1600 gals. 7-1/2% HCL w/ additives as per attached specifications dated 8/21/03
- 64 biodegradable ball sealers (1.15 SG, 7/8" OD)

ChevronTexaco to Provide

• 46 bbls. 2% KCL for flush

DELAWARE FRACTURE STIMULATION: (7844'-7860')

Schlumberger to Provide

Hobbs 505.393.6186

- Additives for 6,600 gal YF130 fluid system for frac as per attached specs 8/21/03
- Additives for 2,940 gal WF130 fluid system for pre-pad & flush as per attached specs 8/21/03
- 20,200 lbs 16/30 CR4000 (100% Curable Resin Coated Sand)

Neff 13 Federal #2 Add Delaware Pay and Fracture Stimulate May 15, 2003 ChevronTexaco to Provide

• One frac tank loaded w/ 267 bbls. fresh water for frac, flush and bottoms

DELAWARE ACID JOB 2: (7022'-7059')

Schlumberger to Provide

Hobbs 505.393.6186

• 2000 gals. 7-1/2% HCL w/ additives as per attached specifications dated 8/21/03

ChevronTexaco to Provide

• 41 bbls.. 2% KCL for flush

DELAWARE FRACTURE STIMULATION: (7022'-7059')

Schlumberger to Provide

Hobbs 505.393.6186

- Additives for 9,700 gal YF130 fluid system for frac as per attached specs 8/21/03
- Additives for 2,762 gal WF130 fluid system for pre-pad & flush as per attached specs 8/21/03
- 30,400 lbs 16/30 CR4000 (100% Curable Resin Coated Sand)

Well: Neff 13 Federal #2

Field: Livingston Ridge

Reservoir: Brushy Canyon

Location:

1980' FNL & 660' FEL Section: 13 (SE/4 NE/4)

Township: 22S

Range: 31E Unit: H County: Eddy State: NM

Elevations:

GL: 3612' KB: 3626' DF: 3625'

Log Formation Tops		
Lamar	4508'	
Bell Canyon	4536'	
Cherry Canyor	5393'	
Brushy Canyor	7076'	

TUBING DETAIL - 10/17/2000 246 jts - 2-7/8" J-55 tbg (7617') 2 7/8" x 5 1/2" tbg anchor (2.70') 6 jts - 2-7/8" J-55 tbg (195.74') 2-7/8" SN @ 7812' (1.10') 1 3 1/2" SMA w/purge valve (23.75')

EOT landed @ 7836'

Rod Detail: 1-1/2" Polish Rod (26') Pony Rods (1-8', 1-6', 1-4' &1-2') 133 1" x 25' D-87 Rods 1 7/8" EL Rod 175 3/4" EL Rods 7/8" Pony Rods (4') 2-1/2" x 1-1/2" Insert pump (25') w/3/4 right hand release 1-1/2" gas anchor (10')

> SN @ 7812' EOT @ 7836'

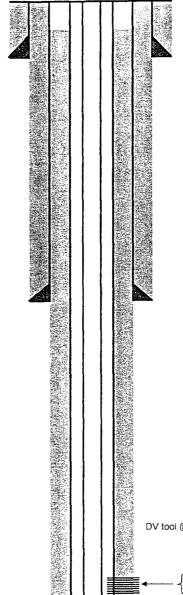
CIBP set @ 7900' 20' cmt on top

TAC @ 7618

Junk & Fill @ 8126' Bit cones & bttm half of CIBP

COTD: 8126 PBTD: 7880 TD: 8450

Proposed Wellbore Diagram



Well ID Info:

Chevno:

API No: 30-015-26165

L5/L6:

Spud Date: 9/7/89 Rig Released: 9/29/89 Compl. Date: 10/15/89

Surface Csg: 11 3/4", 42#, H-40 STC Set: @ 838' w/ 675 sx Class H cmt Hole Size: 14 3/4" to 838' Circ: Yes TOC: surface TOC By: Circulation (5 sx cmt)

Initial Completion:

Perf 7126-7128', 7133-7135', 7154-7156' & 7159-7161'.

Acdz 7126-7161' w/1,500 gal 15% NEFE HCL Frac 7126-7161' w/26,000 gai XLG & 37.500 # 20/40 SD & 12,500 # 12/20 RC SD.

Subsequent Workovers/Reconditionings/Repairs:

6/25/93 Perf 7948-7968' (80 holes, 4spf). Frac 7948-7968' w/56,000 gal 30# XLG & 251,400 # 20/40 SD & 19,000 # 20/40 RC SD.

10/17/2000 Set CIBP @ 7900' w/20' cmt on top.

Perf 7726-7734' (48 holes).

Acdz 7726-7734' w/1,000 gal 15% NEFE HCL

8/20/2003 Proposed Perf 7844-60', 7050-59', 7032-37' & 7022-26' and stimulate

Intermediate Csg: 8 5/8", 32# & 24#, K-55 STC

Set: @ 4520' w/ 1283 sx Class H cmt Hole Size: 10 5/8" to 4520' Circ: Yes TOC: surface

TOC By: Circulation (10 sx cmt)

Prod. Csg: 5 1/2", 17# & 15.5 #, J-55 LTC

Set: @ 8450' w/ 1635 sx cmt (DV tool @ 5979')

Hole Size: 7 7/8" to 8450" Circ: Yes (1st stage) TOC:

TOC By: (157 sx cmt 1st stage) (2nd stage no cir)

Status

Status

Status

Perfs 7022-26 197.50 (Perfs ે 7032-37" Perfs 7050-59 7126-28', 7133-35', 7154-56' 7159-7161 Perfs

7726-34

7844-60

7948-7968

Perfs

Perfs

DV tool @ 5979'

Cherry Canyon - proposed Status

Cherry Canyon - proposed

Cherry Canyon - proposed

Brushy Canyon - open

Brushy Canyon - open

Brushy Canyon - open

Brushy Canyon - proposed

Brushy Canyon - open

By: W.P. Johnson

Updated: 8-26-03 by WAYN