

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**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  
OCD Hobbs  
JAN 25 2011  
HOBBSOCD

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

5. Lease Serial No.  
LC-032592 A NM 10934  
6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE** - Other instructions on page 2.

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other INJECTION

2. Name of Operator  
CHEVRON U.S.A. INC.

3a. Address  
15 SMITH ROAD  
MIDLAND, TEXAS 79705

3b. Phone No. (include area code)  
432-687-7375

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
660' FNL & 660' FWL, T-24S, R-37E, UL: D  
Sec. 35

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

8. Well Name and No.  
C.C. FRISTOE A FEDERAL NCT-1 #6

9. API Well No.  
30-025-11371

10. Field and Pool or Exploratory Area  
QUEEN - 7 Ras - Grayborg - Longvic matrix

11. Country or Parish, State  
LEA COUNTY, NEW MEXICO

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other REPAIR CSG & RTI
	<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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

CHEVRON U.S.A. INC. INTENDS TO REPAIR A LEAK IN THE PRODUCTION CSG & RETURN TO INJECTION.  
PLEASE FIND THE ATTACHED INTENDED PROCEDURE & WELLBORE DIAGRAM.

\*\*\*VERBAL APPROVAL FROM EDWARD FERNANDEZ, BLM ENGINEER, HAS BEEN RECEIVED.

*SEE ATTACHED FOR CONDITIONS OF APPROVAL*  
*To Continue working*  
*on casing repair vs. shutting down operations.*  
*Work began on this well around Jan 12, 2011 without authorization*  
*This NOI (After the Fact) was not received by BLM UNT:7 Jan 19, 2011*  
*BLM was first notified of this work on Jan 16, 2011 around 12 PM MST*  
*by Aaron Dodds of Chevron. An Incident of Noncompliance (INC)*  
*will be issued 43 CFR 3162.3-2*

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

Title REGULATORY SPECIALIST

Signature

Date 01/18/2011

APPROVED..

*P. Y. Fernandez*  
JAN 21 2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

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, make 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.

(Instructions on page 2)

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

**C.C. Fristoe NCT-A 1#6**  
**API: 30-025-11371**  
**CHEVNO: FB2334**

**01/09/11**

**GL: 3195'**  
**Sec 35 T24S R 37E**  
**Lea County, NM**

**Job: Repair casing leak and return to injection**

**Procedure:**

**Perform all work in accordance with Safe Work Practices permitting work as required.**

1. Stop injection into well. Monitor and record SITP and SICP. Open casing to tank as needed to minimize pressure on 7" casing and old patch ~5' BGL. Excavate well cellar as needed to expose intermediate and surface casing heads. Install shoring, backfill and compact soil around shoring. NU risers from each casing head with valves at surface and open valves below GL if possible. RU kill truck. Pump 40 bbls 10 ppg brine down tubing (volume to T/OH +5 bbl). Record ISIP and stabilized SITP to calculate kill weight mud.
2. MI & RU pulling unit.
3. MIRU electric wireline. RIH with 2 3/4" gauge ring to pkr @ 3174'. Set CIBP, RBP or collar stop plug ~10' above pkr plug as well conditions and equipment availability indicate after consultation with Remedial Engineer (CIBP or RBP preferred). Pressure test plug to 2500 psi. Bleed pressure off tubing for negative test on plug. Perforate circulating holes in 3-1/2" tubing at minimum recommended distance above plug. RD wireline. Pump down tubing to establish circulation. Circulate kill weight mud.
4. ND WH and NU BOP
5. Release 7" AD-1 pkr monitor tubing/casing annulus to verify mud weight is adequate to control well. If pkr travels down hole but drags and swabs coming up or will not travel up hole it may be necessary to circulate some kill mud out of well to equalize pressure across packer. Be aware AD-1 pkr is right hand release and has a right hand break safety release which will leave entire pkr in hole except for the top collar if activated. POOH with 3-1/2" IPC tubing. Inspect injection tubing and lay down any bad joints.
6. PU 2-7/8" workstring and RIH w/ New 7" AS-IX injection packer and on-off tool with 2.25" "F" profile and plug in place. Pack plug and void at top of plug with grease prior to RIH. Set pkr @ 3160'. Load tubing with 2 bbl 10 ppg brine followed by kill weight mud. Release on-off tool and POOH.
7. RIH w/ 7" RBP and pkr on 2-7/8" workstring. Set RBP @ ~ 3100'. Set pkr @ ~3090' and test RBP to 1500 psi. Rel pkr & POOH.

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

*BLM-824*

8. RIH w/ 7" RBP and pkr on 2-7/8" workstring. Set RBP @ ~ 450'. Set pkr @ ~440' and test RBP to 500 psi. Displace hole with 10 ppg brine. Test csg and isolate leak if necessary. POOH LD pkr. ND BOPE Fill casing w/ 10 ppg brine and dump 250# sand on top of RBP.

9. RD and move rig out of the way if necessary. Repair casing and wellhead as per Vetco Gray (contact Terry Thorp @ Odessa yard for repairs). Test to 600 psi.

\* 10. RU PU if RD for casing repair. NU BOPE and test.

\* 11. RIH w/ 2-7/8" workstring, wash sand and retrieve RBP @ 450'. PU and RIH with 7" packer to 3100'. Displace hole with 10 ppg brine. Test casing to 600 psi. Isolate casing leaks if any exist.

\* 12. If a casing leak is found spot 250# sand on RBP and contact Remedial Engineer for cement squeeze design.

13. Squeeze casing leak per recommendation. POOH

14. PU 6-1/8" drill bit and drill out any cement in the wellbore. POOH and LD workstring

15. PU and RIH with remaining good 3-1/2" 9.3# J-55 IPC tubing replacing any bad joints with 2-7/8" IPC tubing from Dollarhide pipe yard as needed

16. Circulate packer fluid and run official 30 min MIT for NMOCD

17. ND BOPE NU WH RDMO TWOTP

#### Contact Information:

Ivone Wardell  
Adil Manzoor  
Rob Tyre  
John Bermea  
Aaron Dobbs

Production Engineer  
Geologist  
D&C Engineer  
Production Foreman  
Production Specialist

Cell: 432-238-0903  
Ph: 432-687-7207  
Cell: 432-638-9446  
Cell: 432-967-3420  
Cell: 505-631-9071

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL  
BLM *[Signature]*

### **Project Justification:**

**It is recommended to repair C.C. Fristoe NCT-A 1#6. This well has recently developed a leak in the production casing approx 4' below ground level. It is recommended that this well be repaired and returned to injection. Fristoe 1#6 is the only disposal well for the C.C. Fristoe and G.L. Erwin leases in this field and it currently disposes of approx 3000 BWPD. With the loss of this well, it is estimated that at least 40 BOPD from the Fristoe and Erwin leases will have to be shut in; additionally, produced water will have to be trucked out to a disposal site.**

Economics for this workover are based on the 40 BOPD that will have to be shut in if this well is not repaired, and costs incurred from having to truck out produced water from the C.C. Fristoe and G.L. Erwin leases.

C.C. Fristoe NCT-A 1#6 was originally completed February 1940 in the Langlie Mattix Queen zone with an initial production of 110 BOPD and 0 BWPD. Production declined to 0 BOPD by August 1963. On July 1964, this well was dually completed as a producer in the Jalmat Yates and injector in the Queen. This well is classified as a pilot waterflood injector. In July 1976 the Jalmat Yates zone was squeezed to comply with NMOCD regulations concerning non productive zones. This well was last pulled in January 2001 for a tubing upsize and wellbore cleanout and acid stimulation.

Current completion: OH Queen interval 3369-3510'  
Last injection rate: 3003 BWPD @ NA psig (11/2009)

LEASE: Long 42 112/1/1 (SW) | 12460-2W  
 C. E. FRISVOLD "H" (110) | WELL NO. 6 | LOCATION D-25 24, 32

40# LW  
 13" CSD. SET @ 162'. ~~Cemented 100% of 150'~~  
 Hole size 18"

32.75# LW  
 10 3/4" CSD. SET @ 714'. ~~Not Cemented~~

28# LW  
8 5/8" casing set at 1295' with 100% of cement  
 Hole size 10 3/4"

TOC 2.220' (LAW)

J.M. met

2708'  
 2796'

SET'D W. 100 Sp (7176)

~~10 3/4" CSD. SET @ 3369'~~ (1101)

7" casing set at 3369' with 100% of E/7080 cement  
 Hole size 7 1/2" 24#

6 3/4" OH

Total Depth 3511

**Conditions of Approval**

- 1. Surface disturbance beyond the existing pad must have prior approval.**
- 2. On Item 11 of Procedure attached to Sundry; If Any other casing leaks are found down hole The BLM is to be notified by submitting a Sundry Notice of Intent. All casing repair requires prior approval from the Authorized Officer.**
- 3. Note: If there is no other casing leaks found. Conduct a Mechanical Integrity Test of at least 500psig for 30 minutes on the injection tbg/csg annulus of the well. The test pressure should have at least 200psig differential with tubing pressure but no more than casing test pressure as described by Onshore Order 2.III.B.1.h. (the tubing pressure may need to be reduced). Document the MIT test on a calibrated recording chart registering 25 to 85 per cent of its full range. Notify Paul R. Swartz at 575.200.7902 at least 24 hours before the test. If there is no response, notify the BLM on call drilling phone, 575.361.2822. Submit the recorded MIT chart with a subsequent Sundry Form 3160-005 relating the MIT activity. Include the original and three copies of the recorded chart and Sundry**

**A wellhead bradenhead test will be conducted during the MIT. Each casing annulus is be open to the atmosphere for observation before and during the test.**

**Display tubing-casing annular pressure onsite. A bourdon tube gauge that will register tubing pressure within 25 to 85 per cent of its full range is acceptable. Should the casing/tubing annulus exhibit communication with injection pressure, a tubing or packer failure probable. Monitor the annulus. The use of automation equipment that will monitor and alarm is encouraged for any well, and necessary when tubing or casing competence is questionable. Maintain the annulus full of packer fluid and be able to verify that fluid level to a BLM inspector at any time. Report a significant (5bbl/mth) loss of packer fluid. Should a tubing or casing failure be detected, cease injection and reduce the annular pressure to 0psig. Notify Paul R. Swartz at 575.200.7902 within 24 hours. If there is no response, notify the BLM on call drilling phone, 575.361.2822. Also submit to this office on a notice of intent (Sundry Form 3160-5) for approval by BLM and NMOCD a plan of correction and the anticipated date of repair. After the repairs submit a subsequent report (Sundry Form 3160-5) describing the repair(s) and a BLM witnessed Mechanical Integrity Test chart. Include the date(s) of the well work, descriptions of tubing, on/off equipment, profile nipple installation, and packer setting depth.**