

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. HARGRAVE D 1
2. Name of Operator XTO ENERGY INC Contact: HOLLY C PERKINS E-Mail: Regulatory@xtoenergy.com		9. API Well No. 30-045-06648-00-S1
3a. Address 2700 FARMINGTON AVE., BLDG K, SUITE 1 FARMINGTON, NM 87401	3b. Phone No. (include area code) Ph: 505-324-1090 Fx: 505-564-6700	10. Field and Pool, or Exploratory KUTZ PICTURED CLIFFS
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 9 T27N R10W NESW 1650FSL 1650FWL 36.58707 N Lat, 107.90358 W Lon		11. County or Parish, and State SAN JUAN COUNTY, NM

12. CHECK 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 type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" 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 site is ready for final inspection.)

XTO Energy Inc. proposes to plug and abandon this well per the attached procedure

14. I hereby certify that the foregoing is true and correct. <b>Electronic Submission #55124 verified by the BLM Well Information System For XTO ENERGY INC, sent to the Farmington Committed to AFMSS for processing by STEVE MASON on 03/17/2005 (05SXM0386SE)</b>	
Name (Printed/Typed) HOLLY C PERKINS	Title REGULATORY COMPLIANCE TECH
Signature (Electronic Submission)	Date 03/17/2005

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By <u>STEPHEN MASON</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>03/25/2005</u>
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 <u>Farmington</u>		

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.

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

**NMOCD**

CWC CWC  
DLM \_\_\_\_\_  
TWD \_\_\_\_\_  
BKW \_\_\_\_\_  
DLC \_\_\_\_\_

## PLUG AND ABANDONMENT PROCEDURE

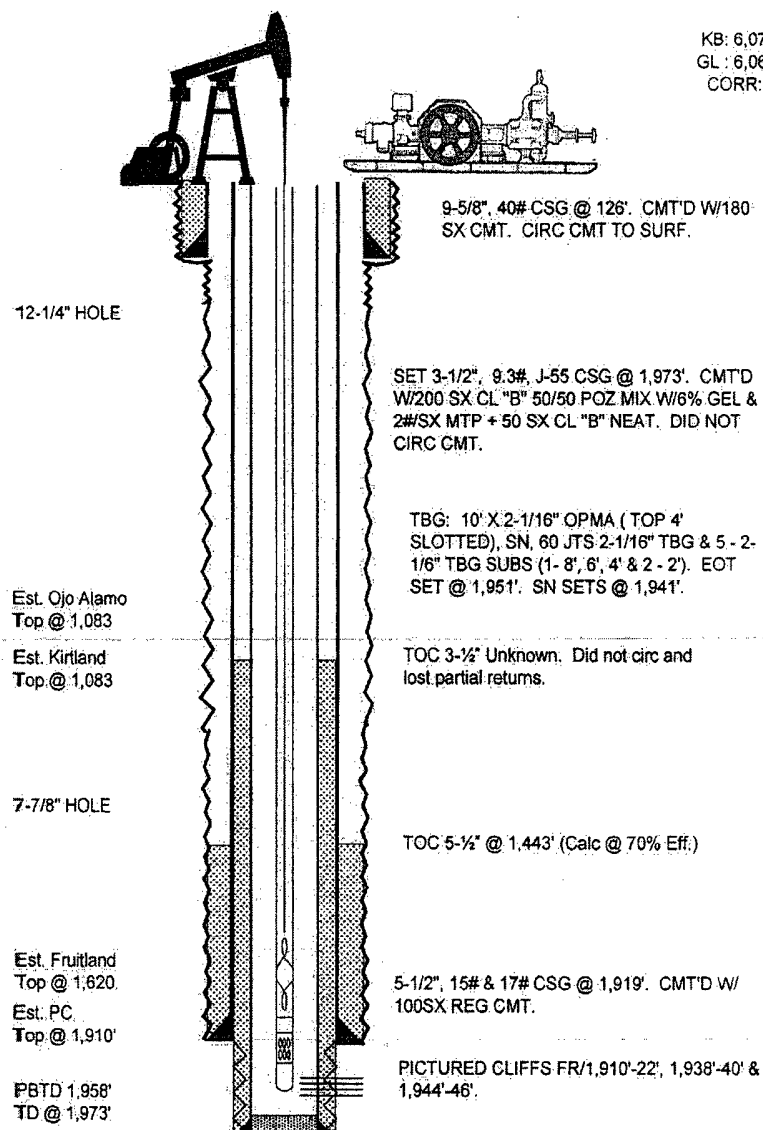
March 16, 2005

**R.P. Hargrave D #1**  
Fulcher Kutz Pictured Cliffs  
1,650' FSL and 1,650' FEL, Section 9, T27N, R10W  
San Juan County, NM / API 30-045-06648

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures.  
All cement will be ASTM Type III, mixed at 14.8 ppg with a 1.32 cf/sx yield.

1. Install and test rig anchors. Prepare blow pit. Comply with all NMOCD, BLM and XTO safety rules and regulations. Conduct safety meeting for all personnel on location. MOL and RU daylight pulling unit. NU relief line and blow well down; kill with water as necessary.
2. Seat downhole pump and pressure test 2-1/16" tubing to 500#. POH and LD 3/4" rods and pump.
3. ND wellhead and NU BOP and stripping head; test BOP.
4. TOH and visually inspect 2-1/16" IJ tubing, total 1,951'. If necessary LD tubing and PU workstring. Round-trip 3-1/2" casing scraper to 1,860'.
5. **Plug #1 (Pictured Cliffs perforations and top, Fruitland top, 1,860' – 1,520')**: TIH and set a 3-1/2" CR or CIBP at 1,860". Load the casing above the CR with water and circulate the well clean. Pressure test casing to 500#. If casing does not test, spot or tag subsequent plugs as appropriate. Mix 13 sxs cement and spot a balanced plug above CR to isolate the Pictured Cliffs interval and cover through the Fruitland Coal top. LD tubing to +/-1,083' and TOH with remaining tubing.
6. **Plug #2 (Kirtland and Ojo Alamo tops, <sup>1095</sup>1,153' – <sup>857</sup>953')**: RU WL. GIH and perforate 3 squeeze holes at 1,153'. POH w/ WL. Establish injection into squeeze holes w/ fresh water. TIH and set a 3-1/2" CR at 1,083'. After setting CR do not sting out. Establish injection into perforations and squeeze ~~40~~ sxs below CR. Sting out and spot a ~~10~~ sxs balanced plug on top of CR. LD tubing.
7. **Plug #3 (8.625" Casing shoe and surface, 176' - Surface)**: RU WL. GIH and perforate 3 squeeze holes at 176'. Establish circulation out the bradenhead and 5-1/2" x 3-1/2" annulus and circulate clean. With approximately 39 sxs cement pumped down the 3-1/2" casing: 1<sup>st</sup> close the bradenhead valve and open the 5-1/2" x 3-1/2" casing valve and circulate good cement to surface and 2<sup>nd</sup> close the 5-1/2" x 3-1/2" casing valve and open the bradenhead valve and circulate good cement to surface.
8. ND BOP and cut off wellhead below surface casing flange. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location per BLM stipulations.

# R. P. HARGRAVE "D" #1 CURRENT WELLBORE DIAGRAM



KB: 6,073'  
GL: 6,069'  
CORR: 4'

## DATA

**LOCATION:** 1,650' FSL & 1,650' FEL, SEC 9, UNIT K, T27N, R10W  
**COUNTY/STATE:** SAN JUAN COUNTY, NEW MEXICO  
**FIELD:** FULCHER KUTZ PICTURED CLIFFS  
**FORMATION:** PICTURED CLIFFS  
**NM LEASE#:** SF-077382 **API#:** 30-045-06648 **CTOC WELL#:** 70410  
**SPUD DATE:** 11/20/49 **COMPLETION DATE:** 1/3/50  
**IP:** F. 537 MCFPD.  
**PERFS:** 1,910'-22', 1,938'-40' & 1,944'-46'.  
**TUBING STRING:** 10" X 2-1/16" OPMA (TOP 4' SLOTTED), SN, 60 JTS 2-1/16" TBG & 5 - 2-1/6" TBG SUBS (1- 8', 6', 4' & 2 - 2'). EOT SET @ 1,951'. SN SETS @ 1,941'.  
**RODS & PMP:** 1-1/2" X 1-1/4" X 8' RWBC-Z PMP W/3/4" X 6' GAC, 76 - 3/4" GRADE "C" RODS W/ SH BOXES, 3 - 3/4" PONY RODS (1 - 8', 6' & 4') & 1-1/4" X 16' PR W/8" LINER.  
**PPG UT:** CHURCHILL 9M-50-84-54 W/C-46 ENE  
**PRODUCTION METHOD:** PPG.

## HISTORY

**11/20/49:** MCONNELL DRLG SPUDDED 12-1/4" HOLE. KB: 6073'. GL: 6069'. SET 9-5/8", 40# CSG @ 126'. CMT'D W/180 SX CMT. CIRC CMT TO SURF.  
**11/23/49:** CORE #1 FR/1,917'-1,933'. CORE #2 FR/1,933'-1,945'.  
**11/24/49:** TD 7-7/8" HOLE @ 1,945'. SET 5-1/2", 15# & 17# CSG @ 1,919'. CMT'D W/100 SX REG CMT.  
**11/26/49:** DO CMT & SHOE. DRLD NEW FMT FR/1,945'-2,002'.  
**12/01/49:** FILLED HOLE W/175 QTS SNG, GRAVEL & CALSEAL. DETONATED SHOT.  
**12/02/49:** CO TO TD. TIH W/1" 1.7# LP.  
**01/03/50:** F. 537 MCFPD.  
**09/13/75:** POH W/1" TBG. LD TBG.  
**09/14/75:** SET 3-1/2", 9.3# J-55 CSG @ 1,973'. CMT'D W/200 SX CL "B" 50/50 POZ MIX W/6% GEL & 2#SX MTP + 50SX CL "B" NEAT. DID NOT CIRC CMT.  
**09/15/75:** RAN GR LOG. TST'D CSG TO 3,000 PSIG. HELD OK. PERF'D PC FR/1,946'-44', 1,940'-38', 1,922'-10'. TIH W/1-1/4" TBG. SPOTTED 250 GALS 15% HCL. POH. BROKE DOWN PERFS @ 1,650 PSIG. F. W/32,270 GALS GELLED WTR, 25,000 LBS 10/20 SD & 15,000# 8/12 SD @ 30 BPM & 1650 PSIG. ISIP 550 PSIG, 10" SIP 325 PSIG. TIH W/1-1/4" TBG. TAGGED SD @ 1,909'. CO W/N2 TO 1,958' (PBTD). PU & LANDED TBG @ 1,925'.  
**09/16/75:** SWBD WELL. WELL KO FLWG.  
**01/01/98:** CTOC ASSUMED OPERATIONS.  
**09/16/98:** SET HPI SCREW COMP FROM HUBBLE #20.

## R. P. HARGRAVE "D" #1 CURRENT WELLBORE DIAGRAM

09/22/98: F. 0 BO, 0 BW, 105 MCF, FTP 11 PSIG, SICP 13 PSIG, LP 62 PSIG, SP 11 PSIG, DP 62 PSIG, OP CK, 24 HRS. FINAL REPORT FOR SETTING HPI RENTAL SCREW COMP.

12/19/98: OP CSG & STD SPECTRUM RENTAL WH TST SCREW COMP (FORD 460, SRC UNIT #41).

12/29/98: DISCONNECTED & MOVED SPECTRUM RENTAL WH TST SCREW COMP (FORD 460, SRC UNIT #41) TO THE PO PIPKIN #3.

08/11/00: INSTALLED CTOC WH RECIP COMP (WAUK 145, CTOC DIST TOOL SJB #100).

07/03/01: OWU & STD NEW SCS WH SCREW COMP (ARROW 330, XTO DIST TOOL SJB #1642).

01/24/02: MIRU SL. RIH W/3/4" BHPB TO 1,925'. STOPPED @ 0', 500', 1,000', 1,500', 1,725', 1,825' & 1,925'. HUNG BHPB OFF @ 11:50 A.M. RDMO SL.

02/06/02: MIRU SL. ATT TO PULL GAUGES. DROPPED TO PBTB. RDMO SL.

02/07/02: MIRU SL. RAN CSG OVERSHOT & RETRIEVED ONE GAUGE & TOOL STRING FR/HOLE. RDMO SL.

02/12/02: MIRU PU. TOH & LD 60 JTS 1-1/4", 2.3#, J-55 TBG. MIRU SL. RIH W/FT & REC 1 WL PRESS BOMB. COULD NOT REC 2ND PRESS BOMB IN HOLE. RDMO SL. SET RBP @ 162.5'. TOH W/TBG. DUG OUT WH & CUT OFF 2' OF 9 5/8" CSG, 2' OF 5-1/2" CSG & 1.5' OF 3-1/2" CSG. INST NEW 3-1/2" X 2-1/16" WH. TIH W/TBG & REL RBP. CO FILL FR/1,953'-55' W/2" SD PMP. REC 1 GAL SD & SCALE. DID NOT REC 2ND PRESS. BOMB.

02/13/02: TIH W/2-1/16" TBG, SN & NC. TGD PBTB 1,961' (NO FILL). TOH W/1 JT 2-1/16" TBG. SN SET @ 1,942'. S. 0 BLW, 6 RUNS. MI & SET PPS. RECOND CHURCHILL 9M-50-84-54 PPG UT & ARROW C-46 GAS ENG.

02/14/02: S. 0 BLW, 2 RUNS. TIH & TGD PBTB @ 1,961' (NO FILL). TOH W/TBG. SN & NC. TIH W/10' X 2-1/16" OPMA (TOP 4' SLOTTED), SN, 60 JTS 2-1/16" TBG & 5 - 2-1/16" TBG SUBS (1- 8', 6', 4' & 2 - 2'). EOT SET @ 1,951'. SN SETS @ 1,941'. TIH W/1-1/2" X 1-1/4" X 8' RWBC-Z PMP W/3/4" X 6" GAC, 76 - 3/4" GRADE "C" RODS W/ SH BOXES, 3 - 3/4" PONY RODS (1 - 8', 6' & 4') & 1-1/4" X 16' PR W/8' LINER. PT TBG TO 300 PSIG. HELD OK FOR 5". REL PRESS. LS PMP TO 300 PSIG. GOOD PA. RDMO PU.

02/15/02: STD PPG UT @ 10:30 A.M. PPG @ 4 X 41" SPM.

02/22/02: SICP 4.3 PSIG. SHOT VENTAWAVE FL @ 1,952' FS. FL 12' BSN & 42' BTP.

10/17/02: PT TBG TO 500 PSIG FOR 5". HELD OK. PRESS UP TBG W/PPG UT TO 500 PSIG. GOOD PA.

08/22/03: INST 2" TAP W/RISE & VLV TO SURF FOR BH TST IN PL FR/9-5/8" SURF CSG TO 5-1/2" CSG.

09/23/03: SHOT ECHOMETER FL @ 1,939' FS (60 JFS). FL 1' ASN. SN @ 1,940'.

12/04/03: DISCONN & HAUL XTO WH SCREW COMP (ARROW 330, FRICK, 1 STG, XTO DIST TOOL SJB #1642) TO THE JC GORDON E #2. WELL SI & INACTIVATED FOR ECONOMICS.

# R. P. HARGRAVE "D" #1 PROPOSED P&A WELLBORE DIAGRAM

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