

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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

SUNDRY NOTICES AND REPORTS ON WELLS

Bureau of Land Management
Hartington Field Office
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

MM-03153

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

OH RANDEL #11

9. API Well No.

30-045-26438

10. Field and Pool, or Exploratory Area

BASIN FRUITLAND COAL

11. County or Parish, State

SAN JUAN

NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

XTO ENERGY INC.

3a. Address

382 CR 3100 AZTEC, NM 87410

3b. Phone No. (include area code)

505-333-3100

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

1650' FSL & 1980' FEL NWSE Sec.10(J)-T26N-R11W N.M.P.M.

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

☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Fracture Treat☐ New Construction☒ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☐ Other

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 recompletion 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.)

XTO Energy Inc. received verbal approval from Steve Mason w/EUM @ 1:15 p.m., 03/09/2009 and from Steve Hayden w/NMCD @ 11:38 a.m., 03/10/2009 to P & A this well in order to produce the OH Randel #15S. Please see the attached procedure and wellbore diagrams.

XTO also received verbal approval for the C144-C1EZ permit from Charlie Perrin w/NMCD @ 11:00 a.m., 03/09/2009.

RCVD APR 9 '09
OIL CONS. DIV.
DIST. 314. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

DOLENA JOHNSON

Title REGULATORY COMPLIANCE TECHNICIAN

Signature

Date 03/10/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

MAR 10 2009

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 41 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.

OPERATOR

**O.H. Randel # 11
1,650' FLS & 1,980' FEL
Unit J, Sec 10, T 26 N, R 11 W
San Juan County, New Mexico**

P&A

Surf csg: 8-5/8", 24#, K-55, ST&C csg @ 309'. Circ cmt to surf.
Prod csg: 4-1/2", 10.5#, K-55 csg @ 5,704'. PBTD @ 5,662'. DVT @ 4,538'. Capacity = 0.0159 bbls/ft.
Burst = 4380 psi (Treating @ 80% = 3504 psi).
Cement: 1st cmt stg, 300 sx with good returns. 2nd cmt stg, 1,500 sx + 100 Class B cmt. Circ 25 bbls cmt to surf.
Tubing: 2-3/8" X 30' OEMA w/1/4" weep hole & pin, SN & 54 JTS 2-3/8", 4.7#, J-55, EUE 8RD tbg; SN @ 1,789'; EOT @ 1,819'.
Rods: 2" X 1-1/2" X 10' RWAC-Z (DV) PMP & 1" X 1' STNR NIP RHBO TL, spiral rod guides, 1" X 1' LS, 3 - 1-1/4" HF SBS, 3 - 3/4" Norris GR "D" rods w/5 molded guides, 64 - 3/4" Norris GR "D" rods, 4 - 3/4" GR "D" Norris rod subs (8', 6', 4' & 2') & 1-1/4" X 16' PR W/8' LNR.
Perfs: GP: 5,368' - 5,640' w/1 JSPF (36 HOLES)
FC: 1,734' - 1,745', 1,607', 1,589' & 1,587' w/3 JSPF (45 HOLES)
Neat Cmt: Type III or II cmt mixed to 15.5 ppg w/1.18 cuft/sx
Formation: Fruitland Coal (well # 70875)

P&A Procedure

1. Notify BLM and NMOCD of plugging operations 24 hours in advance
2. MIRU PU.
3. BD well. ND wellhead and NU BOP.
4. PU on rods and then re-seat pump. PT tubing to 1,500 psi
5. TOH w/rods and pump. Lay down rods.
6. TOH w/tbg. Tally tubing as it comes out of the hole.
7. TIH w/tbg to 2,440. MIRU cmt trk. Mix 11 sx of neat cmt down tbg and spot cmt on CIBP to isolate the lower zones. Circ tbg clean while TOH.
8. TIH w/4-1/2" CR and set @ 1,265' (1,245' to top of the Fruitland Coal formation).
9. Load well with water and PT csg to 800 psi.
10. Mix 12 sx of neat cmt. Pump cmt down tbg and spot cmt on CR to isolate the Fruitland Coal from 1,265' to 1,165'.

257 (12575)

868-663 + 50/11.167 (114) = 17545

11. TOH and lay down tbg to 359'.
12. Mix 28 sx of neat cmt. Pump cmt down tbg and circ cmt to surf. TOH and land tbg.
13. RDMO cmt trks.
14. Shut well in and WOC for 12 hrs
15. TIH w/tbg and tag TOC.
16. ND BOP and cut off wellhead below surface casing flange. Fill 4-1/2" and 4-1/2" x 8-5/8" annulus to surface. RDMO PU
17. Install P&A marker w/10 sx cmt to comply with regulations.
18. Cut off anchors.

359/11/1/1 (1.18) 2754

O. H. RANDEL #11 Wellbore Diagram

KB: 6,374'
GL: 6,380'
CORR: 14'

DATA

LOCATION: 1,850' FSL & 1,980' FEL, UNIT J, SEC 10, T28N, R11W
COUNTY/STATE: SAN JUAN COUNTY, NEW MEXICO
FIELD: GALLEGOS, BASIN
FORMATION: GALLUP, FRUITLAND COAL
FED LEASE #: NMNM-03153 API #: 30-045-28438 XTO WELL #: 70875
SPUD DATE: 7/19/85 COMPLETION DATE: 8/23/85
IP: P. 12 BO, 46 MCF, 24 HRS.
TUBING: 161 JTS 2-3/8", 4.7", J-55, EUE, 8RD TBG, TAC, 10 JTS 2-3/8", 4.7", J-55, EUE, 8RD TBG, SN, PS & OPMA. TAC @ 5,298'. SN @ 5,614' EOT @ 5,633'.
PERFS: GP: 5,368' - 5,640' w/1 JSPF (36 HOLES)
FC: 1,734' - 1,745', 1,607', 1,589' & 1,587' W/3 JSPF (45 HOLES)
PROD METHOD: PUMPING.

HISTORY

07/19/85: SPUDDED 12-1/4" HOLE. SET 8-5/8", 24", K-55, STC @ 309'. CMT'D w/225 SX CLASS "B" CMT w/2% CaCl₂ & 1/4 #/SX CELLOFLAKE. CIRC 8 BBLs CMT TO SURF.
07/26/85: TD 7-7/8" HOLE @ 5,704'. RAN OK LOGS. SET 4-1/2", 10.5", K-55 CSG @ 5,704'. DV TOOL @ 4,538'. CMT'D STG 1 w/300 SX 50/50 POZMIX w/2% GEL, 10% SALT & 10% CAL-SEAL. HAD GOOD RTNS. CMT'D STG 2 w/1,500 SX 65/35 POZMIX w/6% GEL & 10% SALT + 100 SX CLASS "B" CMT. CIRC 25 BBLs CMT TO SURF.
08/13/85: DO CMT & DV TOOL.
08/14/85: DO TO PBTD @ 5,662'. RAN GR/CCL LOG. PERF'D GP @ 5,640', 38', 36', 34', 32', 30', 28', 5,592', 90', 86', 84', 76', 74', 40', 38', 23', 20', 14' & 12' w/1 JSPF (19 HOLES).
08/15/85: TIH w/PPI TOOL w/SPOT CONTROL VLV (RFC). COULD NOT BD ANY PERFS. SPOTTED 7-1/2% HCl ACID ACROSS PERFS. SET PPI PKR ACROSS BTM PERF. BD ALL BUT 2 PERFS w/50 GALS 7-1/2% HCl ACID PER PERF.
08/16/85: F. GP PERFS 5,512' - 5,640' w/50,200 GALS 70Q, N₂ FOAM & 50,000' 10/20 SD @ 25 BPM & 2,875 PSIG. ISIP 2,200 PSIG. 15" SIP 2,000 PSIG. 1 HR SIP 1,750 PSIG. OWU THRU 3/4" CK. F. 140 BLW, FCP 50 PSIG, 14.25 HRS.
08/17/85: TIH w/BAILER. TGD SD @ 5,822'. CO SD TO 5,662'.
08/18/85: SET RBP @ 5,645'. S. 32 BF (5% OIL). FFL @ 5,204'. REC BRACKISH WTR.
08/20/85: RESET RBP @ 5,485'. TSTD RBP TO 2,000 PSIG. HELD OK. PERF'D GP @ 5,458', 66', 64', 54', 50', 48', 46', 44', 42', 40', 38', 32', 30', 5,387', 83', 72' & 68' w/1 JSPF (17 HOLES).
08/21/85: A. PERFS 5,368' - 5,468' w/50 GALS 7-1/2% HCl ACID PER PERF w/BAKER SAP TOOL. FRAC'D w/50,000 GALS, 70Q, N₂ FOAM & 50,000' 10/20 SD @ 25 BPM & 2,800 PSIG. ISIP 2,280 PSIG. 15" SIP 1,890 PSIG. 100" SIP 1,800 PSIG. OWU ON 3/4" CK. F. 85 BLW, FCP 80 PSIG, 11 HRS.
08/22/85: TGD SD @ 5,360'. CO SD w/BAILER TO 5,421'. PULLED RBP @ 5,485'.
08/23/85: TIH w/BAILER. TGD SD @ 5,630'. CO SD TO 5,662'. TIH w/TBG & TAC. LANDED TBG @ 5,821'. S. 40 BF, TR OIL. BFL @ 3,600'.
08/24/85: SWBD WELL. WELL KO FLWG. F. 28 BF, FTP 60 PSIG, 3/8" CK, 5 HRS. W/ CUT 10% OIL. F. 35 BF (10% OIL). WELL DIED.
08/25/85: SWBD WELL. WELL KO FLWG. F. 15 BF (10% OIL). WELL DIED.
08/26/85: TIH w/PMP & RODS.
08/30/85: P. 15 BO, 8 BW, 92 MCFPD.
09/02/85: P. 13 BO, 0 BW, 92 MCFPD.
09/04/85: P. 8 BO, 0 BW, GAS TSTM.
09/05/85: P. 10 BO, GAS TSTM. SHOT FL @ 4,945'. FL 630' ASN INCR SPEED ON PPG UT.
09/10/85: P. 12 BOPD, 46 MCFPD.
09/21/85: POH w/RODS. PMP & TBG. CO SD fr/5,635' - 5,662'. TIH w/TBG, PMP & RODS. LANDED TBG @ 5,648'.

JENSEN 80B-133-54
W/ARROW C-66 GAS ENG

12-1/4" HOLE

7-7/8" HOLE

CIBP @ 2,440'

CMT PLUG FR2, 480' - 2,680'

DV TOOL @ 4,538'

CMT PLUG FR5, 115' - 5,315'

CIBP @ 5,315'

PBTD: 5,662'
TD: 5,704'

8-5/8", 24", K-55, STC CSG @ 309'. CMT'D w/225 SX CMT. CIRC CMT TO SURF.

TBG: 2-3/8" X 30' OBMA W/14" WEEP HOLE & PIN, SN & 54 JTS 2-3/8", 4.7", J-55, EUE 8RD TBG, SN @ 1,789' EOT @ 1,819'

FC: 1,734' - 1,745', 1,607', 1,589' & 1,587' W/3 JSPF (45 HOLES)

GP: 5,368' - 5,640' w/1 JSPF (36 HOLES).

4-1/2", 10.5", K-55 CSG @ 5,704'. CMT'D STG 1 w/300 SX CMT. HAD GOOD RTNS. CMT'D STG 2 w/1,500 SX CMT. CIRC CMT TO SURF.

S:\Ant Hill\NM Workovers\AFEL\OH Randel #11\OH Randel #11.DOC
RBH 02/06/07

O. H. RANDEL #11 Wellbore Diagram

08/25/88: COULD NOT PULL PMP. PULLED OUT OF PMP. POH w/TBG & PMP. REC PMP. TIH w/TBG. TIH w/PMP & RODS.
 06/10/91: HO TBG w/30 BBLs.
 08/07/91: HO DWN TBG. POH w/RODS & PMP. TGD SD @ 5,663'. TIH w/TBG & TAC. TIH w/PMP & RODS.
 01/11/93: REPLACED PMP.
 08/03/93: POH w/PMP & RODS. TGD FILL @ 5,645'. BAILED SD 1/5,645' - 5,662'. TIH w/PROD TBG. TIH w/PMP & RODS.
 05/30/95: CHANGED PMP.
 01/01/98: CTOC ASSUMED OPERATIONS.
 03/26/98: PPD 27 BBLs 2% KCl WTR. TBG WENT ON STRONG VAC.
 05/28/98: SITP 0 PSIG, SICP 50 PSIG. POH w/RODS & PMP. TGD FILL @ 5,649'. PT TBG TO 1,100 PSIG. HELD OK. TOH w/160 JTS, TAC, 10 JTS TBG, SN & 21' TP JT.
 05/29/98: TIH w/BAILER & CO FILL TO 5,660'. TOH w/BAILER. TIH w/PROD TBG.
 06/30/98: SITP & SICP VAC. TIH w/PMP & RODS. WELL PPG @ 2.5 SPM x 46" SL. NOTE: REPL 38 - 3/4" ROD CPLGS DUE TO WEAR.
 06/04/98: CHG'D 1/2.5 TO 5.5 SPM.
 07/22/98: TOH w/RODS & PMP. MOD AMT OF PARAFFIN ON RODS. TGD FILL @ 5,655'.
 07/23/98: TOH w/TBG. FOUND HOLE IN 1ST JT ABOVE TAC. TIH w/BAILER. CO SD TO 5,662'. TIH w/PROD TBG. BROACHED TBG TO SN. SET TAC @ 5,298'. SN @ 5,614'. EOT @ 5,633'.
 07/24/98: TIH w/PMP & RODS. HWO.
 05/12/00: PPD 40 BC DWN CSG.
 12/30/00: TOH w/RODS & PMP. RODS HAD HVY PARAFFIN.
 01/03/01: PPD 60 BC DWN TBG TO TREAT FOR PARAFFIN. TBG ON VAC. TIH w/RODS & PMP. REPL'D 62 - 3/4" ROD BOXES DUE TO WEAR. PPG 5 x 48" SPM.
 09/30/01: TOH w/ROD SUBS. HO TBG & RODS w/40 BO. CHG'D PMP. PPG 4.5 x 46" SPM.
 08/28/02: SWJ DUE TO ECONOMICS.
 08/08/03: RWTP.
 09/23/03: SWJ DUE TO ECONOMICS.
 02/16/05: RWTP THRU O H RANDEL CDP.
 08/27/05: PMP CHG. TAC @ 5,308' W/13K TEN. SN @ 5,640'. EOT @ 5,656'.
 01/14/06: MIRU PU. TOH w/BHA.
 01/15/06: TIH W/4-1/2" CIBP & 162 JTS TBG. SET CIBP @ 5,315'.
 01/17/06: MIRU CMT EQUIP. PMP CMT PLUG W/17 SKS, 3.6 BBLs CLASS "B" CMT W/3% CACL2 (MIXED @ 15.6 PPG & 1.18 CU FT/SX YIELD). CMT FR/5,315' - 5,115'. TOH & LD W/80 JTS TBG. PMP CMT PLG W/17 SKS, 3.6 BBLs CLASS "B" CMT W/3% CACL2 (MIXED @ 15.6 PPG & 1.18 CU FT/SX). CMT FR/2,680' - 2,480'. RDMO CMT TRK. TOH & LD TBG. RDMO PU.
 01/19/06: MIRU WL. RIH W/4-1/2" CIBP & SET @ 2,440'. POH W/WL. RAN GR/CCU/CBL FR/2,000' - SURF. PERF'D FC @ 1,734' - 1,745', 1,507', 1,589' & 1,587' W/3 JSPF. POH W/WL. MIRU AC EQUIP. A. W/750 GAL 15% NEFE HCL & 59 - 7/8" 1.1 SG BS @ 7 BPM & 1,020 PSIG. ISIP 1,017 PSIG. 5" SIP 459 PSIG. 10" SIP 175 PSIG. 15" SIP 44 PSIG. RDMO AC EQUIP. RIH W/JB. KNOCKED OFF BS. POH W/WL. RDMO WLU.
 01/20/06: MIRU FRAC EQUIP. PPD 3,273 GALS 30# LIN GEL FOR STEP RATE TEST. ISIP 590 PSIG. 5" SIP 596 PSIG. 10" SIP 546 PSIG. 15" SIP 525 PSIG. FRAC'D FC PERFS FR/1,587' - 1,745' DWN 4-1/2" CSG W/79,141 GAL 650 CO2 PURGEL III LT CO2 FOAM FRAC FLD (ZIRCONIUM XL, 25# GUAR GEL, 2% KCL WTR) CARRYING 115,800# 20/40 SD (2,000# 20/40 BRADY SD COATED W/SANDWEDGE & 113,800# 20/40 BRADY SD COATED W/SANDWEDGE NT). ISIP 926 PSIG. 5" SIP 938 PSIG. 10" SIP 880 PSIG. 15" SIP 855. RDMO FRAC EQUIP.
 02/07/06: MIRU PU. TIH W/2-3/8" X 30' OEMA W/1/4" WEEP HOLE & PIN, SN & 54 JTS 2-3/8", 4.7#, J-55, EUE 8RD TBG; SN @ 1,789'; EOT @ 1,819'. TIH W/2" X 1-1/2" X 10' RWAC-Z (DV) PMP & 1" X 1' STNR NIP RHBO TL, SPIRAL ROD GUIDE, 1" X 1' LS, 3 - 1-1/4" HF SBS, 3 - 3/4" NORRIS GR "D" RODS W/5 MOLOED GUIDES, 64 - 3/4"

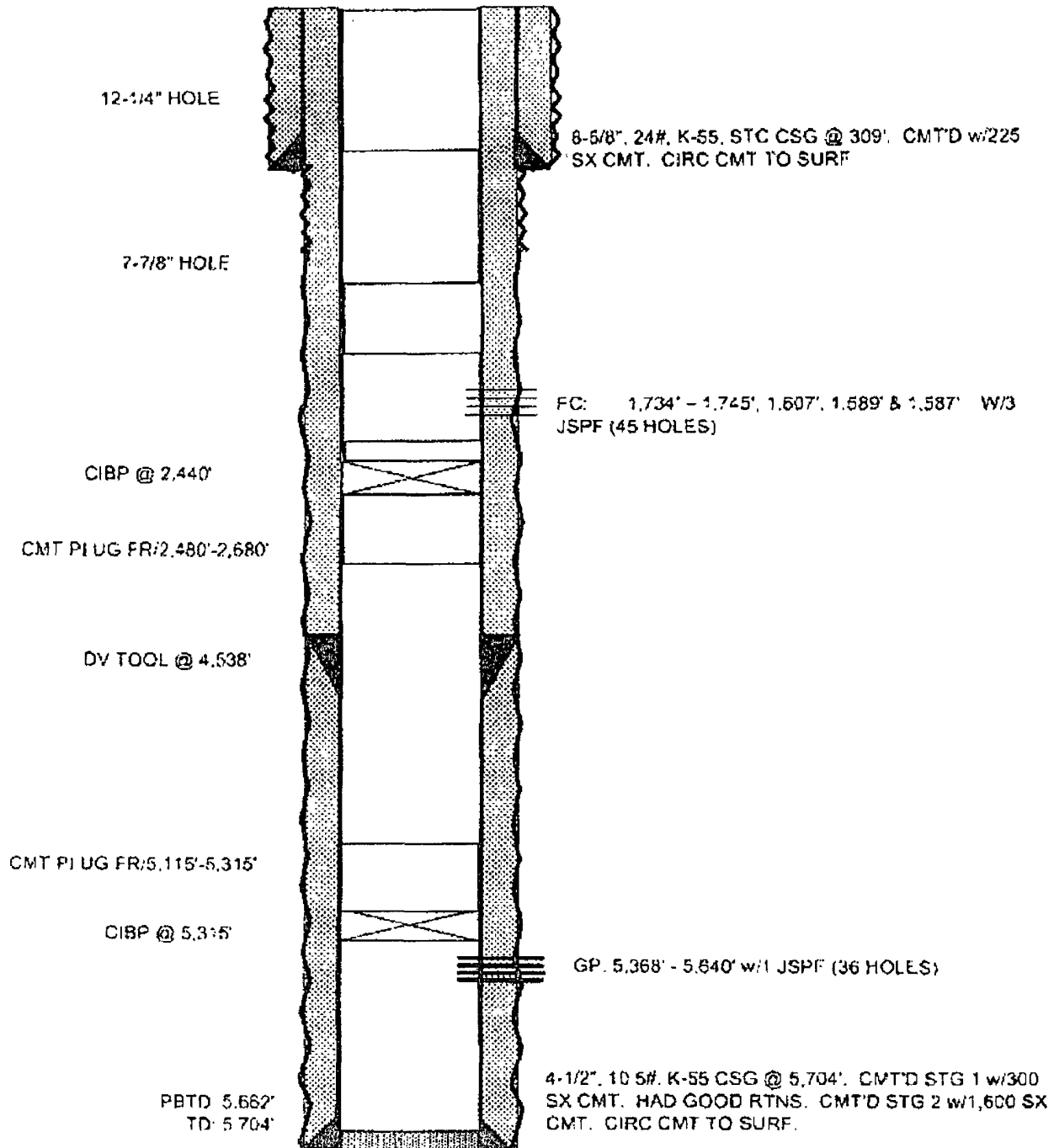
NORRIS GR "D" RODS, 4 - 3/4" GR "D" NORRIS ROD SUBS (8', 6', 4' & 2') & 1-1/4" X 16' PR W/8' LNR. RDMO PU PPG @ 5 X 42" SPM.
 02/22/06: 1ST DELV FC GAS SALES TO ENTERPRISE THROUGH THE RANDEL CDP @ 12:45 P.M., 02/21/06. INIT RATE 50 MCFPD.
 02/23/06: DISCONN & MOVED 3 PEN DRY-FLW BARTON CHART RECORDER (XTO MTR #22167) TO XTO STOCK. INST USED AMOCAM EFM/RTU (XTO #8047) ON MTR RUN FRXTO STOCK. INST BTRY, SOLAR PANEL, RADIO & ANTENNA. INST & CONN AUTO CK VLV, WH PRESS XMTRS, PIT TNK FLT SW. TERMIN CBL IN EFM/RTU. FUNCTION TST UN. INST COMPL.

Proposed P&A Wellbore

KB: 6,374'

GL: 6,360'

CORR: 14'



BLM CONDITIONS OF APPROVAL

The following surface rehabilitation Conditions of Approval must be complied with as applicable, before this well can be approved for final abandonment (see 43 CFR 3162.3-4). **Surface rehabilitation work shall be completed within one year of the actual plugging date. Notification for completion of this work can be submitted with a Sundry Notice.**

1. All fences, production equipment, purchaser's equipment, concrete slabs, deadman (anchors), flowlines, risers, debris and trash must be removed from the location.

2. Production pits will be closed according to the Unlined Surface Impoundment Closure Guidelines, as approved in the Environmental Assessment of December 1993. Any oil stained soils may be remediated on-site according to these guidelines or disposed of in an approved disposal facility.

3. The well pad will be shaped to the natural terrain and left as rough as possible. All compacted areas and areas devoid of vegetation shall be ripped to a minimum of 12" before seeding.

4. Access roads will be shaped to conform to the natural terrain and left as rough as possible to detour vehicular travel. Access will be ripped to a minimum of 12" in depth and waterbarred prior to seeding. All erosion problems created by the development must be corrected prior to acceptance of release. Waterbars should be spaced as shown below:

% Slopes	Spacing Interval
Less than 20%	200'
2 to 5%	150'
6 to 9%	100'
10 to 15%	50'
Greater than 15%	30'

All water bars should divert to the downhill side of the road.

5. All disturbed areas will be seeded with the prescribed certified seed mix (reseeding may be required).

6. Notify Surfacing Managing Agency seven (7) days prior to seeding so that they may be present for that option.

7. The period of liability under the bond of record will not be terminated until the lease is inspected and the surface rehabilitation approved.

Other SMA's may vary slightly in their restoration requirements. It is your responsibility, as the operator, to obtain surface restoration requirements from other SMA's. We need to be provided with a copy of these requirements. Any problems concerning stipulations received from other SMA's should be brought to us.

On private land, we should be provided with a letter from the fee owner stating that the surface restoration is satisfactory.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
1235 LA PLATA HIGHWAY
FARMINGTON, NEW MEXICO 87401

Attachment to notice of
Intention to Abandon:

Re: Permanent Abandonment
Well: 11 O.H. Randel

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 599-8907.
3. The following modifications to your plugging program are to be made:
 - a) Place the Fruitland CR @ 1500' place 12 sx of neat cmt on top of the CR.
 - b) Place a plug from 868' – 663' to cover the Kirtland and the Ojo Alamo.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.

**GENERAL REQUIREMENTS FOR
PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES
FARMINGTON FIELD OFFICE**

1.0 The approved plugging plans may contain variances from the following minimum general requirements.

1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.

1.2 Requirements may be added to address specific well conditions.

2.0 Materials used must be accurately measured. (densimeter/scales)

3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.

3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.

4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.

4.1 The cement shall be as specified in the approved plugging plan.

4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.3 Surface plugs may be no less than 50' in length.

4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.

5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.

5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.

5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.

5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.

6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.

6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.

6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.

7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H₂S.

8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), five copies, with the Field Manager, Bureau of Land Management, 1235 La Plata Highway, Suite A, Farmington, NM 87401. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.

9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.

10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.