

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**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.*

5. Lease Serial No.  
NMNM03523

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
FEDERAL 31 24

9. API Well No.  
30-045-28834-00-S1

10. Field and Pool or Exploratory Area  
BASIN FRUITLAND COAL

11. County or Parish, State  
SAN JUAN COUNTY, NM

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

1. Type of Well  
☐ Oil Well ☐ Gas Well ☒ Other: COAL BED METHANE

2. Name of Operator  
XTO ENERGY INC  
Contact: RHONDA SMITH  
E-Mail: rhonda\_smith@xtoenergy.com

3a. Address  
600 E EXCHANGE AVE  
FORT WORTH, TX 76164  
3b. Phone No. (include area code)  
Ph: 505-333-3215

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 31 T27N R11W SESW 1200FSL 1800FWL  
36.527573 N Lat, 108.047256 W Lon

**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"/> Hydraulic Fracturing	<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 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.

XTO Energy Inc. proposes to plug and abandon this well per the attached procedure. XTO will be using a Closed Loop System. Please see attached Current/Proposed Wellbore Diagram and the amended reclamation plan.

**BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS**

Notify NMOC 24 hrs  
prior to beginning  
operations

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

OIL CONS. DIV DIST. 3  
NOV 27 2017

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #394662 verified by the BLM Well Information System

For XTO ENERGY INC, sent to the Farmington

Committed to AFMSS for processing by ABDELGADIR ELMADANI on 11/20/2017 (18AE0017SE)

Name (Printed/Typed) RHONDA SMITH

Title REGULATORY CLERK

Signature (Electronic Submission)

Date 11/10/2017

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

Approved By ABDELGADIR ELMANDANI

Title PETROLEUM ENGINEER

Date 11/20/2017

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 Farmington

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)

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

NMOC

10

ML \_\_\_\_\_  
MTG \_\_\_\_\_  
Approved \_\_\_\_\_

## PLUG AND ABANDONMENT PROCEDURE

July 18, 2017

**Federal #31-24**

**AFE#1703998**

Basin Fruitland Coal

1200' FSL and 1800' FWL, Section 31, T27N, R11W

San Juan County, New Mexico / API 30-045-28834

Lat: \_\_\_\_\_ / Lat: \_\_\_\_\_

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 Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield.

1. This project requires a NMOCD C-144 CLEZ Closed-Loop System Permit for the use of an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.
2. Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.
3. Rods: Yes X , No \_\_\_\_\_, Unknown\_\_\_\_\_.  
Tubing: Yes X , No \_\_\_\_\_, Unknown\_\_\_\_\_, Size 2.375" , Length 1523'.  
Packer: Yes \_\_\_\_\_, No X , Unknown\_\_\_\_\_, Type \_\_\_\_\_.  
If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.
4. **Plug #1 (Pictured Cliffs top and Fruitland perforations and top, 1486' – 980'):** Round trip 5.5" gauge ring to 1486' or as deep as possible. RIH and set 4.5" cement retainer at 1486'. Pressure test tubing to 1000 PSI. Circulate well clean. Attempt to pressure test casing to 800 PSI. If casing does not test then spot or tag subsequent plugs as appropriate. Mix 63 sxs Class B cement inside casing to isolate the Pictured Cliffs top and Fruitland interval. PUH.
5. **Plug #2 (8.625" casing shoe, 605' – 0'):** Attempt to pressure test the bradenhead annulus to 300 PSI; note the volume to load. If the BH annulus holds pressure, then establish circulation out casing valve with water. Mix approximately 70 sxs cement and spot a balanced plug from 605' to surface, circulate good cement out casing valve. TOH and LD tubing. Shut well in and WOC. If the BH annulus does not test, then perforate at the appropriate depth and attempt to circulate cement to surface filling the casing from 605' and the annulus from the squeeze holes to surface. Shut in well and WOC.
6. ND BOP and cut off casing below surface casing flange. Install P&A marker with cement to comply with regulations. RD, move off location, cut off anchors and restore location.

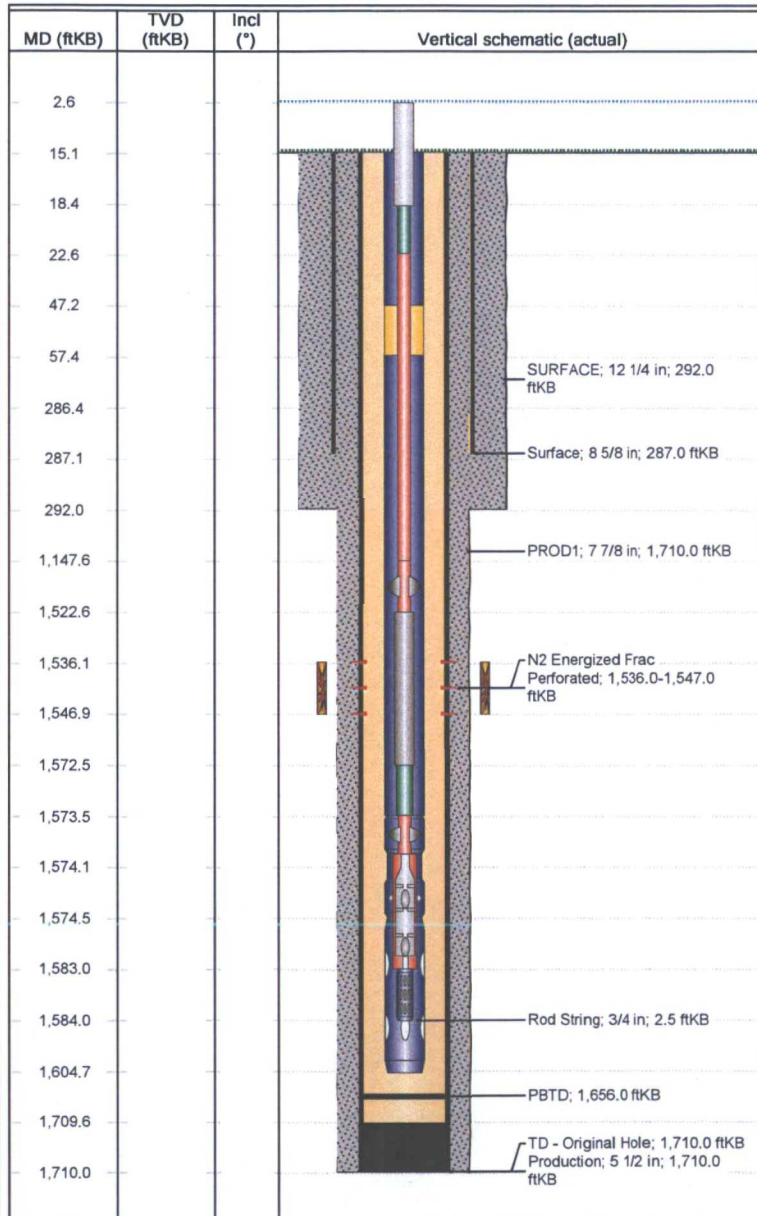




## Downhole Well Profile - with Schematic

Well Name: Federal 31-24

API/UWI 30045288340000	Accounting ID 78187	Permit Number	State/Province New Mexico		County San Juan		
Location T27N-R11W-S31		Spud Date 12/27/1992 00:00	Original KB Elevation (ft) 6,097.00	Gr Elev (ft) 6,082.00	KB-Ground Distance (ft) 15.00	Casing Flange Elevation (ft)	



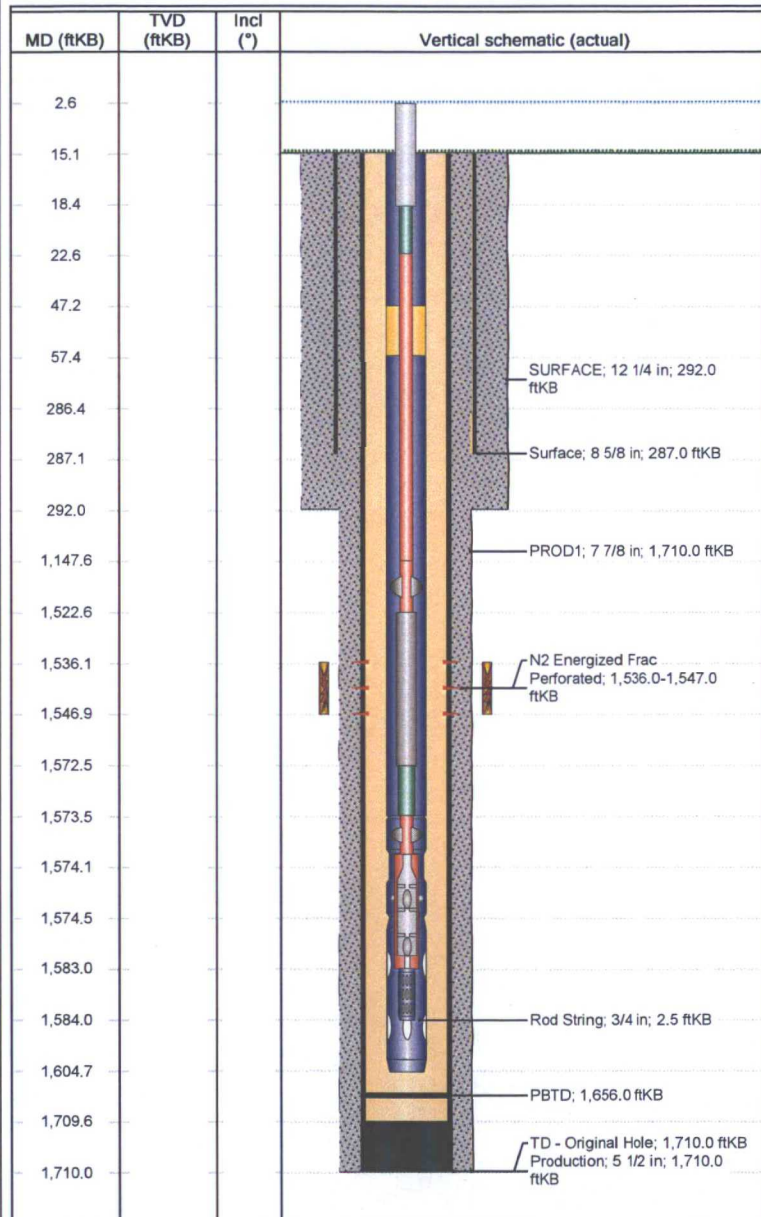
Wellbores							
Wellbore Name Original Hole		Parent Wellbore Original Hole		Wellbore API/UWI 30045288340000			
Start Depth (ftKB)  15.0		Profile Type		Kick Off Depth (MD) (ftKB)			
Section Des		Size (in)	Act Top (ftKB)				
SURFACE		12 1/4	15.0				
PROD1		7 7/8	292.0				
			1,710.0				
Zones							
Zone Name		Top (ftKB)	Btm (ftKB)				
Fruitland Coal		1,536.0	1,547.0				
Casing Strings							
Csg Des	Set Depth (ftKB)	OD (in)	Wt/Len (lb/ft)	Grade			
Surface	287.0	8 5/8	24.00	J-55			
Production	1,710.0	5 1/2	15.50	J-55			
Cement							
Des		Type		String			
Surface Casing Cement		Casing		Surface, 287.0ftKB			
Production Casing Cement		Casing		Production, 1,710.0ftKB			
Tubing Strings							
Tubing Description		Run Date		Set Depth (ftKB)			
Tubing - Production		7/31/2014		1,604.6			
Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing	2 3/8	4.70	J-55	1	32.28	15.0	47.3
Tubing Sub	2 3/8	4.70	J-55	1	10.10	47.3	57.4
Tubing	2 3/8	4.70	J-55	47	1,516.15	57.4	1,573.5
Seat Nipple	2 3/8			1	1.10	1,573.5	1,574.6
OEMA	2 3/8	4.70	J-55	1	30.00	1,574.6	1,604.6
Rod Strings							
Rod Description			Run Date			Set Depth (ftKB)	
Rod String			7/31/2014			1,584.0	
Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Polished Rod	1 1/4			1	16.00	2.5	18.5
Rod Sub	3/4		D	1	4.00	18.5	22.5
Sucker Rod	3/4		D	45	1,125.00	22.5	1,147.5
Sucker Rod w/Snap On Guides	3/4		D	15	375.00	1,147.5	1,522.5
Sinker Bar	1 1/4		C	2	50.00	1,522.5	1,572.5
Lift Sub	1			1	1.00	1,572.5	1,573.5
Spiral Rod Guide	3/4			1	0.50	1,573.5	1,574.0
Rod Insert Pump	1 1/2			1	9.00	1,574.0	1,583.0
Strainer Nipple	1			1	1.00	1,583.0	1,584.0
Other In Hole							
Run Date	Des		OD (in)		Top (ftKB)		Btm (ftKB)



# Downhole Well Profile - with Schematic

Well Name: Federal 31-24

API/UWI 30045288340000	Accounting ID 78187	Permit Number	State/Province New Mexico	County San Juan
Location T27N-R11W-S31	Spud Date 12/27/1992 00:00	Original KB Elevation (ft) 6,097.00	Gr Elev (ft) 6,082.00	KB-Ground Distance (ft) 15.00
Casing Flange Elevation (ft)				



Perforations						
Date	Top (ftKB)	Btm (ftKB)	Zone			
	1,536.0	1,547.0	Fruitland Coal, Original Hole			
Stimulations & Treatments						
Frac #	Top Perf (ftKB)	Bottom Perf (ftKB)	AIR (bbl/min)	MIR (bbl/min)	TWP (bbl)	Total Proppant (lb)
	1536	1547				

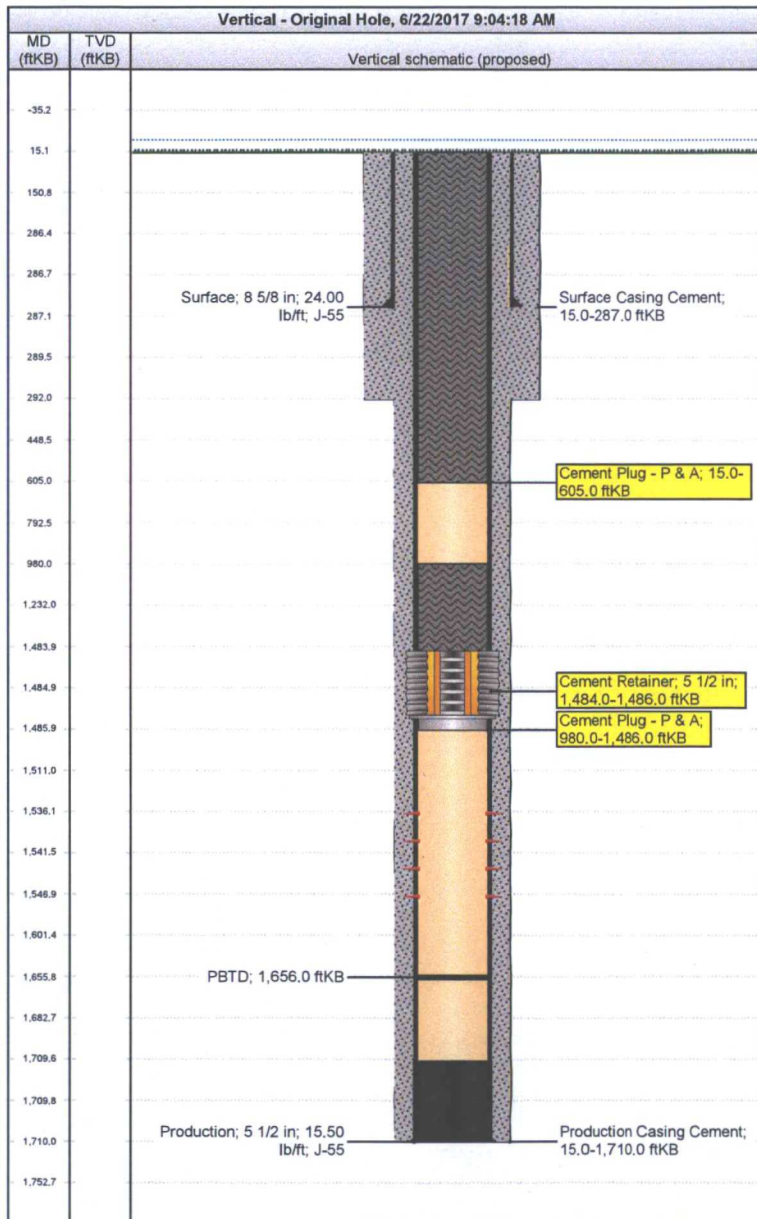




# XTO - Proposed P&A Wellbore Diagram

Well Name: Federal 31-24

API/UWI 30045288340000	Accounting ID 78187	Permit Number	State/Province New Mexico	County San Juan
Location T27N-R11W-S31	Spud Date 12/27/1992 00:00	Original KB Elevation (ft) 6,097.00	Gr Elev (ft) 6,082.00	KB-Ground Distance (ft) 15.00
Casing Flange Elevation (ft)				



Formations				
Formation Name		Final Top MD (ftKB)		Final Bottom MD (ftKB)
Wellbores				
Wellbore Name		Parent Wellbore		
Original Hole		Original Hole		
Start Depth (ftKB)		Profile Type	Kick Off Depth (MD) (ftKB)	
15.0				
Casing Strings				
Csg Des	Set Depth (ftKB)	OD (in)	Wt/Len (lb/ft)	Grade
Surface	287.0	8 5/8	24.00	J-55
Production	1,710.0	5 1/2	15.50	J-55
Cement				
Des	Type	String	Com	
Surface Casing Cement	Casing	Surface, 287.0ftKB	Cmt'd w/ 200 sx CL "B" w/ 3% caCl + 1/4# sx flocele.	
Production Casing Cement	Casing	Production, 1,710.0ftKB	Cmt'd w/175 sx Halliburton lite w/ 6% gel, 2% caCl, 1/4#/sx flocele. Tail in w 100 sx CL "B" w/ .35% Halad 413; .4% econolite, + 1/4#/sx flocele. Circ to surf	
Cement Plug - P & A	Plug	Production, 1,710.0ftKB	Plug #2: 70 sx Class B cement from 605' - surface	
Cement Plug - P & A	Plug	Production, 1,710.0ftKB	Plug #1: 63 sx Class B cement from 1486' - 980'	
Perforations				
Date	Top (ftKB)	Btm (ftKB)	Zone	
	1,536.0	1,547.0	Fruitland Coal, Original Hole	
Other In Hole				
Des	OD (in)	Top (ftKB)	Btm (ftKB)	
Cement Retainer	5 1/2	1,484.0	1,486.0	



## Amended Reclamation Plan

11/7/2017

**Federal 31-24**

**API 30-045-28834**

**Lease # NMNM-03523**

**Lat: 36.527683, Long: -108.047935**

**Footage: 1,200' FSL & 1,800' FWL**

**SW/SE Sec. 31, T27N, R11W**

**San Juan, County**

### ***1.0 PURPOSE and SCOPE***

1.1) The purpose of this document is to ensure final reclamation of associated pad and access roads as required by applicable laws and regulations. Properly performed reclamation procedures are required to preserve Private, Public, Tribal and National Forest lands, mitigating any possible environmental/surface owner issues that could potentially arise. This plan amends and replaces the original APD Surface Use Plan (*Onshore Order #1 Section III.D.4.j*) and is designed to provide environmentally sound, safe, prudent and specific guidelines, while implementing Best Management Practices, to assist in returning disturbed soils to a level consistent with the surrounding topography prior to the approved development.

### ***2.0 PRE-RECLAMATION SITE INSPECTION***

2.1) A pre-reclamation site inspection with BLM Farmington Field Office (FFO) Authorized Officer (AO) **Randy McKee** and XTO Energy, Inc. representative **Charlie McCollum** took place on 11/6/2017, prior to implementation of the final reclamation process to determine contours, silt trap placement; seed mix selection, weed abatement procedures as well as additional requirements needed to assist in returning the area to applicable pre-disturbance condition.

### ***3.0 PROCEDURES***

3.1) Rehabilitation work will be completed within one year from plug date. No new disturbance will be allowed outside current disturbed areas to be reclaimed. Notifications, as stipulated in the APD, will be provided to proper authorities via sundry notifications, e-mail, or phone within required time frames.



3.2) All fences, production equipment, purchaser's equipment, concrete slabs, anchors, flow lines (above ground and/or subterranean), risers (*XTO meter run, riser, and sales line to be removed off of location and capped at both ends*), debris, and trash will be removed from location and disposed of at approved facilities.



*Access road (2,450') will be reclaimed, ripped & seeded with security fence placed at the main road to discourage travel on reclaimed access. .*

*Cattle guard to be removed with fencing to be replaced with no gate access.*

3.3) *Production pits* will be closed and remediated according to Federal, State, and Local guidelines. Proper notifications will be made according to above regulations as required. Impacted soil discovered during reclamation activities will be remediated and disposed of at an approved waste facility according to above mentioned guidelines and regulations.

3.4) *Available top soil*, typically the top 6", will be stockpiled during reclamation procedures with the top soil being redistributed after completion of earthwork to assist in achieving adequate vegetation growth.

3.5) *Gravel* on location will be removed and/or may be placed/buried in cut areas to assist in contouring or, with AO approval, used on surrounding lease roads for road stabilization. (*Gravel will be buried on location.*)

3.6) Disturbed areas will be returned (as close as possible), weather permitting, to pre-disturbance topography. Silt traps and drainage control will be utilized as needed to minimize erosion. The removal of sharp angular corners and redefinition of natural drainage will be priority allowing for additional contouring, as needed, to aid in erosion control. Reclaimed areas will be ripped to depths of a minimum of 12" (inches), leaving the surface as rough as necessary, to provide sufficient root establishment, growth, and stabilization of disturbed areas.

3.7) Access roads not required will be reshaped, reclaimed and contoured as close as possible to surrounding area (*Access road will be reclaimed. Cattle guard will be removed and original fencing replaced with no gates.*) Top soil, typically the top 6", preserved during reclamation procedures will be pulled up and redistributed after completion of earthwork to assist in achieving adequate vegetation growth

3.8) Seeding will be accomplished, following proper agency notifications, with recommended procedures. Appropriate certified weed free seed mixes (*determined during onsite inspection*) will be used. *The seed mix chosen for this location will consist of: Big Wyoming Sage, Fourwing Saltbush, Indian Ricegrass, Galleta, Squirreltail Bottlebrush, Sand Dropseed and Needle and Thread.* Seed will be distributed via appropriate methods as dictated by topography of reclaimed areas. Additional methods, as dictated by reclaimed topography, may be utilized to control runoff and assist in established growth.

3.9) Fencing, signage, and other deterrents will be installed when deemed necessary to discourage travel on reclaimed areas. (*A security fence will be placed at beginning of reclaimed access road to control access to reclaimed areas*).

#### **4.0 ARCHAEOLOGICAL CONCERNS**

4.1) Any disturbance activity outside approved areas will require additional BLM approval and may require an additional survey.

4.2) All employees will be educated on the importance of cultural site preservation and legalities of disturbing cultural sites.

4.3) If any cultural sensitive areas are unearthed during the reclamation process work will be immediately suspended with the incident reported to the BLM. The BLM will then notify XTO how to proceed.

#### **5.0 THREATENED AND ENDANGERED SPECIES (T&E)**

5.1) If any T&E not previously surveyed are discovered during reclamation activities work will be immediately suspended and the BLM T&E Specialist will be promptly notified.



## **6.0 WILDLIFE RESTRICTIONS**

6.1) Closures and restrictions specified in the APD, if applicable, will be strictly adhered to.

## **7.0 PALEONTOLOGY**

7.1) Unknown paleontology discoveries during the reclamation process will immediately halt activities and the BLM AO will be notified. XTO will standby for further instructions.

## **8.0 ABANDONMENT MARKER**

8.1) Required marker as specified by the BLM will be installed.

## **9.0 WEED MANAGEMENT**

9.1) Use of approved pesticides/herbicides shall be according to applicable Federal, State, Tribal and local laws. Management of Invasive and Noxious Weeds, as listed on the BLM Noxious and Invasive list, will be dealt with in a prompt and environmentally safe manner. Noxious or invasive weeds will be eradicated using pesticides/herbicides appropriate for the type of weed found and seed mixes used on reclaimed areas. Pesticide/herbicide use shall be approved by BLM Specialist prior to application. Emergency pesticide/herbicide use shall be approved by BLM Specialist prior to application. Proper authorities will be notified at times specified by BLM with required information regarding pesticide use plans (PUPs), spraying procedures and types of weeds found.

## **10.0 MONITORING**

10.1) Upon attainment of reclamation approval; growth monitoring will be conducted and recorded as required until appropriate growth is accomplished.

**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
FARMINGTON DISTRICT OFFICE  
6251 COLLEGE BLVD.  
FARMINGTON, NEW MEXICO 87402**

Attachment to notice of  
Intention to Abandon:

Re: Permanent Abandonment  
Well: Federal 31 #24

**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) 564-7750.

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.