Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

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.

5. Lease Serial No.
NMSF078899

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NMNM119486

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

8. Well Name and No.
BERGER A 2S

2. Name of Operator
XTO ENERGY INC

Contact: RHONDA SMITH
E-Mail: rhonda_smith@xtoenergy.com

9. API Well No.
30-045-32985-00-S1

3a. Address
ENGLEWOOD, CO 80155

3b. Phone No. (include area code)
Ph: 505-333-3215

10. Field and Pool, or Exploratory
BASIN FRUITLAND COAL

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 21 T26N R11W SESE 665FSL 775FEL
36.468136 N Lat, 108.003126 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			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☒ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ 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 recomplete 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 site is ready for final inspection.)

XTO Energy Inc. intends to plug and abandon this well per the attached procedure and will be using a Closed Loop System. Please also see the attached current and proposed wellbore diagrams.

OIL CONS. DIV DIST. 3

JAN 11 2016

Approved as to plugging of the well bore. Liability under bond is retained until surface restoration is completed.

Notify NMOCD 24 hrs prior to beginning operations

SEE ATTACHED FOR CONDITIONS OF APPROVAL

H_2S POTENTIAL EXIST

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

Electronic Submission #326262 verified by the BLM Well Information System
For XTO ENERGY INC, sent to the Farmington
Committed to AFMSS for processing by JACK SAVAGE on 01/04/2016 (16JWS0076SE)

Name *(Printed/Typed)* RHONDA SMITH — Title REGULATORY CLERK

Signature (Electronic Submission) — Date 12/14/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JACK SAVAGE — Title PETROLEUM ENGINEER — Date 01/04/2016

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

NMOCD RV

8

BRB _____
MTG _____
Approved _____

Berger A #2S
Sec 21, T 26 N, R 11 W
San Juan County, New Mexico
12/11/2015

Plug and Abandon Procedure

AFE Number:	1507770
Spud Date:	3/11/2006
Surface Casing:	9-5/8", 36#, J-55 csg @ 242'. Cmt'd w/210 sx. Circ 23 bbls cmt to surf.
Intermediate Casing:	7", 20#, J-55 csg @ 1,382'. Cmt'd w/185 sx. Circ 14 bbls cmt to surf.
Production Casing:	4-1/2", 11.6#, J-55 csg @ 3,022'. Cmt'd w/20 sx. Did not circ cmt to surf. *Capacity: .0155 bbls/ft or .6528 gal/ft*
Production Tubing:	2-3/8" string
Perforations:	Fruitland Coal: 1,751' – 2,955'
PBTD:	3,017'
Recent Production:	0 mcfpd, 0 bwpd, 0 bopd (INA).
Note:	Communication between intermediate and production casing string found on BH test

Notify NMOCD & BLM 24 hours prior to beginning plugging operations

1. Check for COA's and approved NOI before beginning operations.
2. Test rig anchors.
3. Set flowback tank.
4. MIRU completion rig. Review JSA.
5. Kill well.
6. TOH & LD rods and pump.
7. ND WH. NU & FT BOP.
8. TOH tubing.
9. TIH 3-7/8" bit & 3-7/8" string mill to 1,150' MD. TOH.
10. TIH 4-1/2" CR and set @ ±1,100' TVD or ±1,105' MD. PT tubing. Sting out of CR and circulate hole clean.
11. PT casing and CR to 550 psig. If casing does not test, contact engineer.
12. MIRU cement truck. Review JSA.

If Casing does not pressure test. All plugs must be tagged until a successful test.

13. **Perforation Isolation Plug (1,100' TVD – 1,050' TVD):** Pump 8 sx Class "B" cement (15.6 ppg, 1.18 cuft/sx yield) down tubing and spot a plug from 1,100' TVD – 1,050' TVD (volume calculated with 50' excess). WOC. Tag plug.

14. **Fruitland Top Plug (950' – 834'):** Perforate 3 squeeze holes at 950'. Establish injection rate into squeeze holes. Set 4-1/2" CICR at 900'. Pump 36 sx Class "B" cement (15.6 ppg, 1.18 cuft/sx yield). Squeeze 23 sx outside casing and leave 13 sx inside casing from 950' – 834' (volume calculated with 50' excess inside and 100% excess). WOC. Tag plug.

15. **Kirtland and Ojo Alamo Top Plug (574' – 360'):** Perforate 3 squeeze holes at 574'. Establish injection rate into squeeze holes. Set 4-1/2" CICR at 524'. Pump 63 sx Class "B" cement (15.6 ppg, 1.18 cuft/sx yield). Squeeze 43 sx outside casing and leave 20 sx inside casing from 574' – 960' (volume calculated with 50' excess inside and 100% excess). WOC. Tag plug.

16. Attempt to pressure test casing fr/574' – surface. If casing doesn't pressure test, tag subsequent plugs.

17. **Surface Casing Shoe & Surface Plug (292' – Surface):** Perforate 3 squeeze holes at 292'. Establish injection rate into squeeze holes. Pump 84 sx Class "B" cement (15.6 ppg, 1.18 cuft/sx yield). Squeeze 58 sx outside casing and leave 26 sx inside casing from 292' – surface (volume calculated with 50' excess inside and 100% excess).

18. RDMO WLU.

19. RDMO cement truck.

20. WOC 4 hours.

21. Cut off WH. Fill in casing as needed with cement. Install above ground P&A marker.

22. Cut off anchors and reclaim location.

Checklist

Regulatory:
1. NOI to P&A on form C-103
2. Submit a post-work sundry on form C-103 which details the P&A work and location work within 30 days of completing all required restoration work.

Equipment:
1. 1 flowback tank
2. 3 – 4-1/2" cement retainers
3. 191 sx Class "B" cement
4. 1 above ground marker

Services:
1. Completion rig
2. Cement truck

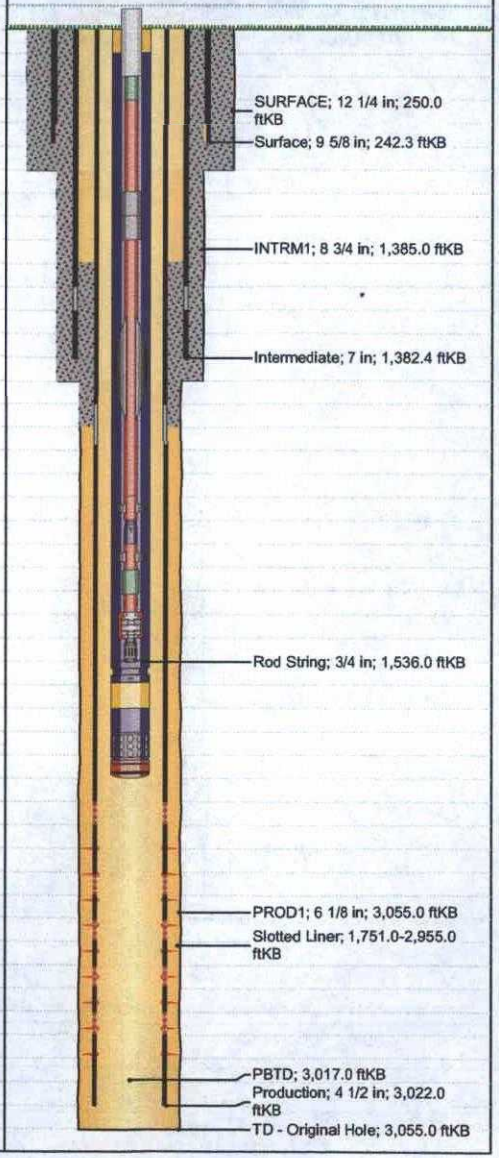
Downhole Well Profile - with Schematic

Well Name: Berger A 02S

API/UWI	XTO Accounting ID	Permit Number	State/Province	County
30045329850000	68314		New Mexico	San Juan
Location	**Spud Date**	**Original KB Elevation (ft)**	**Ground/Corrected Ground Elevation (ft)**	**KB-Ground Distance (ft)**
T26N-R11W-S21	3/11/2006 00:00	6,241.00	6,228.00	13.00

MD (ftKB)	TVD (ftKB)	Incl (°)
9.8	9.8	0.0
21.0	21.0	0.1
42.0	42.0	0.2
242.5	242.4	0.9
341.9	341.8	0.7
516.1	516.0	0.6
1,340.9	1,290.2	47.5
1,380.9	1,314.7	52.7
1,384.8	1,317.1	53.2
1,417.0	1,336.8	57.3
1,422.2	1,339.8	58.0
1,491.1	1,369.2	67.9
1,516.4	1,379.9	71.5
1,518.0	1,380.4	71.6
1,536.1	1,385.0	73.0
1,548.6	1,388.2	73.9
1,585.6	1,397.7	76.7
1,738.2	1,424.9	82.9
1,751.0	1,426.1	84.1
2,016.4	1,435.1	87.4
2,291.0	1,437.2	90.0
2,610.6	1,438.7	89.4
2,885.2	1,440.3	90.2
3,020.3	1,440.2	89.5
3,055.1	1,440.5	89.5

Vertical schematic (actual)



Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Sucker Rod w/Molded Guides	3/4		D	2	50.00	1,441.0	1,491.0
Shear Tool - 21K	3/4			1	0.50	1,491.0	1,491.5
Sucker Rod w/Guides	3/4		97	1	25.00	1,491.5	1,516.5
Lift Sub	1			1	1.00	1,516.5	1,517.5
Spiral Rod Guide	3/4			1	0.50	1,517.5	1,518.0
Rod Insert Pump	1 1/2			1	12.00	1,518.0	1,530.0
Gas Anchor	3/4			1	6.00	1,530.0	1,536.0

Other In Hole

Run Date	Des	OD (in)	Top (ftKB)	Btm (ftKB)

Perforations

Date	Top (ftKB)	Btm (ftKB)	Zone
	1,751.0	2,955.0	Fruitland Coal, Original Hole

Stimulations & Treatments

Frac #	Top Perf (ftKB)	Bottom Perf (ftKB)	AIR (bbl/min)	MIR (bbl/min)	TWP (bbl)	Total Proppant (lb)

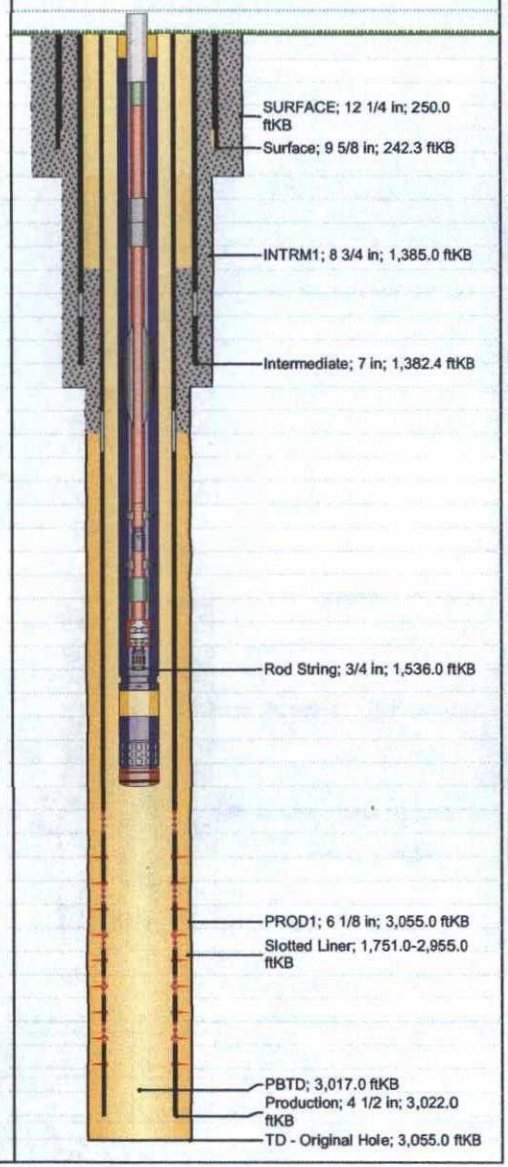
Downhole Well Profile - with Schematic

Well Name: Berger A 02S

API/UWI	XTO Accounting ID	Permit Number	State/Province	County
30045329850000	68314		New Mexico	San Juan

Location	Spud Date	Original KB Elevation (ft)	Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)
T26N-R11W-S21	3/11/2006 00:00	6,241.00	6,228.00	13.00

MD (ftKB)	TVD (ftKB)	Incl (°)	Vertical schematic (actual)
9.8	9.8	0.0	
21.0	21.0	0.1	
42.0	42.0	0.2	
242.5	242.4	0.9	
341.9	341.8	0.7	
516.1	516.0	0.6	
1,340.9	1,290.2	47.5	
1,380.9	1,314.7	52.7	
1,384.8	1,317.1	53.2	
1,417.0	1,336.8	57.3	
1,422.2	1,339.8	58.0	
1,491.1	1,369.2	67.9	
1,516.4	1,379.9	71.5	
1,518.0	1,380.4	71.6	
1,536.1	1,385.0	73.0	
1,548.6	1,388.2	73.9	
1,585.6	1,397.7	76.7	
1,738.2	1,424.9	82.9	
1,751.0	1,426.1	84.1	
2,016.4	1,435.1	87.4	
2,291.0	1,437.2	90.0	
2,610.6	1,438.7	89.4	
2,885.2	1,440.3	90.2	
3,020.3	1,440.2	89.5	
3,055.1	1,440.5	89.5	



Wellbores

Wellbore Name	Parent Wellbore	Wellbore API/UWI
Original Hole	Original Hole	

Start Depth (ftKB)	Profile Type	Kick Off Depth (ftKB)
13.0		

Section Des	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
SURFACE	12 1/4	13.0	250.0
INTRM1	8 3/4	250.0	1,385.0
PROD1	6 1/8	1,385.0	3,055.0

Zones

Zone Name	Top (ftKB)	Btm (ftKB)	Current Status
Fruitland Coal	1,751.0	2,955.0	

Casing Strings

Csg Des	Set Depth (ftKB)	OD (in)	Wt/Len (lb/ft)	Grade
Surface	242.3	9 5/8	36.00	J-55
Intermediate	1,382.4	7	20.00	J-55
Production	3,022.0	4 1/2	11.60	J-55

Cement

Des	Type	String
Surface Casing Cement	Casing	Surface, 242.3ftKB
Intermediate Casing Cement	Casing	Intermediate, 1,382.4ftKB
Production Casing Cement	Casing	Production, 3,022.0ftKB

Tubing Strings

Tubing Description	Run Date	Set Depth (ftKB)
Tubing - Production	2/20/2013	1,586.0

Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing Sub	2 3/8	4.70	J-55	1	8.10	13.0	21.1
Tubing	2 3/8	4.70	J-55	46	1,514.85	21.1	1,536.0
Seat Nipple	2 3/8			1	0.75	1,536.0	1,536.7
Tubing Sub	2 3/8	4.70	J-55	1	12.00	1,536.7	1,548.7
Tubing	2 3/8	4.70	J-55	1	32.90	1,548.7	1,581.6
Perforated Sub	2 3/8			1	4.10	1,581.6	1,585.7
Bull Plug	2 3/8			1	0.30	1,585.7	1,586.0

Rod Strings

Rod Description	Run Date	Set Depth (ftKB)
Rod String	2/20/2013	1,536.0

Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Polished Rod	1 1/4			1	16.00	10.0	26.0
Rod Sub	3/4		D	3	16.00	26.0	42.0
Sucker Rod	3/4		D	12	300.00	42.0	342.0
4-Sinker Bars w/5 - 7/8 stbs	1 1/4		C	4	120.00	342.0	462.0
2-Sinker Bars w/1 - 7/8 stbs	1 1/4		C	2	54.00	462.0	516.0
Sucker Rod w/Molded Guides	3/4		D	37	925.00	516.0	1,441.0

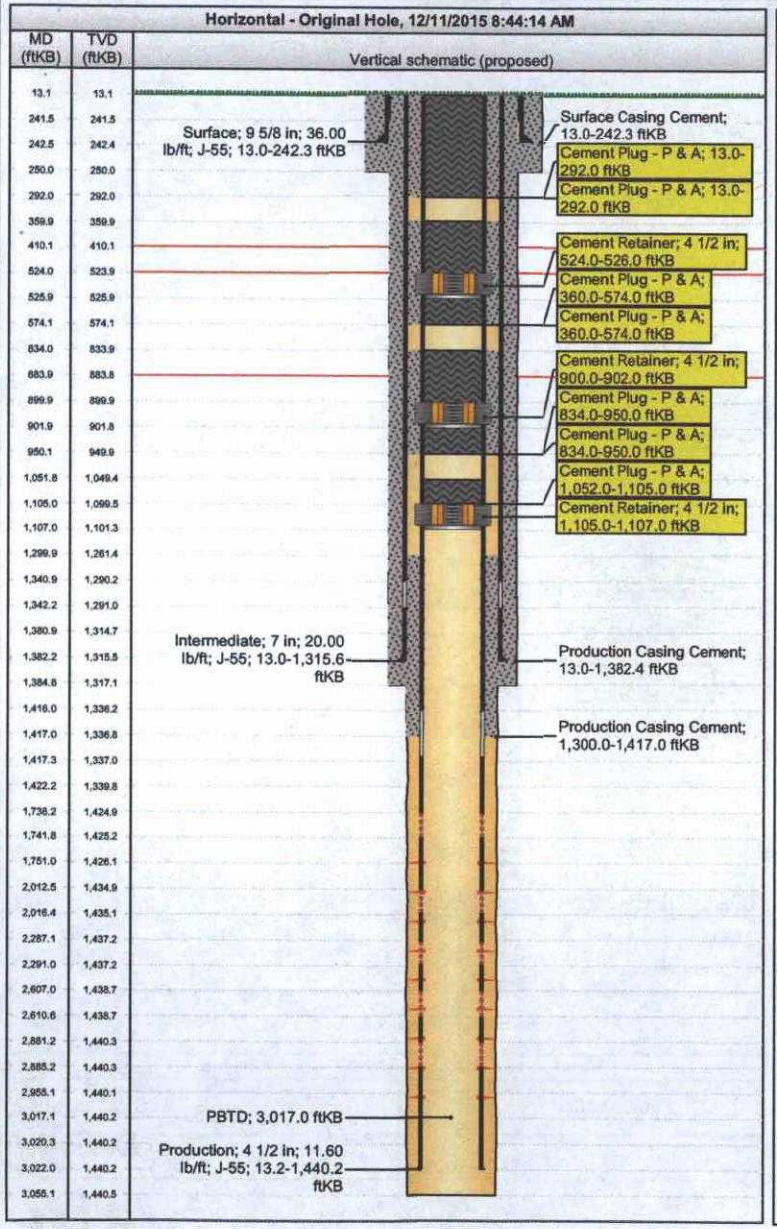
XTO - Proposed P&A Wellbore Diagram

Well Name: Berger A 02S

API/UWI	XTO Accounting ID	Permit Number	State/Province	County
30045329850000	68314		New Mexico	San Juan

Location	Spud Date	Original KB Elevation (ft)	Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)
T26N-R11W-S21	3/11/2006 00:00	6,241.00	6,228.00	13.00

Horizontal - Original Hole, 12/11/2015 8:44:14 AM



Other In Hole

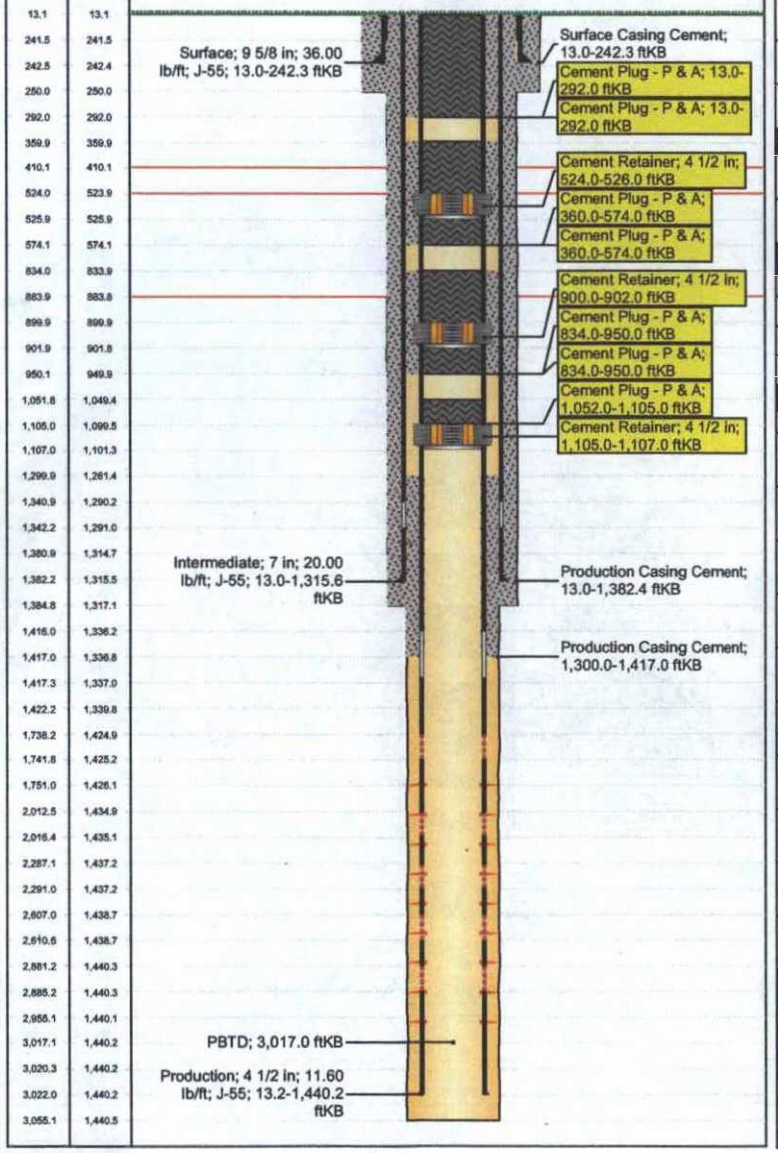
Des	OD (in)	Top (ftKB)	Btm (ftKB)
Cement Retainer	4 1/2	900.0	902.0
Cement Retainer	4 1/2	524.0	526.0

XTO - Proposed P&A Wellbore Diagram

Well Name: Berger A 02S

API/UWI	XTO Accounting ID	Permit Number	State/Province	County
30045329850000	68314		New Mexico	San Juan
Location	**Spud Date**	**Original KB Elevation (ft)**	**Ground/Corrected Ground Elevation (ft)**	**KB-Ground Distance (ft)**
T26N-R11W-S21	3/11/2006 00:00	6,241.00	6,228.00	13.00

Horizontal - Original Hole, 12/11/2015 8:44:14 AM



Formations

Formation Name	Final Top MD (ftKB)	Final Bottom MD (ftKB)
Nacimiento	13.0	410.0
Ojo Alamo	410.0	524.0
Kirtland	524.0	884.0
Fruitland Coal	884.0	

Wellbores

Wellbore Name	Parent Wellbore
Original Hole	Original Hole

Start Depth (ftKB)	Profile Type	Kick Off Depth (ftKB)
13.0		

Casing Strings

Csg Des	Set Depth (ftKB)	OD (in)	Wt/Len (lb/ft)	Grade
Surface	242.3	9 5/8	36.00	J-55
Intermediate	1,382.4	7	20.00	J-55
Production	3,022.0	4 1/2	11.60	J-55

Cement

Des	Type	String	Com
Surface Casing Cement	Casing	Surface, 242.3ftKB	
Production Casing Cement	Casing	Production, 3,022.0ftKB	
Intermediate Casing Cement	Casing	Intermediate, 1,382.4ftKB	
Cement Plug - P & A	Plug	Production, 3,022.0ftKB	Plug 1: Pump 8 sx f/1,105' MD (1,100' TVD) to 1,052' MD (1,050' TVD)
Cement Plug - P & A	Casing	Production, 3,022.0ftKB	Plug 2: (outside) Pump 23 sx f/950' - 834'
Cement Plug - P & A	Plug	Production, 3,022.0ftKB	Plug 2: (inside) Pump 13 sx f/950' - 834'
Cement Plug - P & A	Casing	Production, 3,022.0ftKB	Plug 3: (outside) Pump 43 sx f/574' - 360'
Cement Plug - P & A	Plug	Production, 3,022.0ftKB	Plug 3: (inside) Pump 20 sx f/574' - 360'
Cement Plug - P & A	Casing	Production, 3,022.0ftKB	Plug 4: (outside) Pump 58 sx f/292' - surf
Cement Plug - P & A	Plug	Production, 3,022.0ftKB	Plug 4: (inside) Pump 26 sx f/292' - surf

Perforations

Date	Top (ftKB)	Btm (ftKB)	Zone
	1,751.0	2,955.0	Fruitland Coal, Original Hole

Other In Hole

Des	OD (in)	Top (ftKB)	Btm (ftKB)
Cement Retainer	4 1/2	1,105.0	1,107.0

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: Berger A 2S

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.

3. The following modifications to your plugging program are to be made:

a) Set plug #2 (1270-1170) ft. inside/outside to cover the Fruitland top. BLM picks top of Fruitland at 1220 ft.

b) Set Plug #3 (607-367) ft. inside/outside to cover the Kirtland and Ojo Alamo tops. BLM picks top of Kirtland at 557 ft. BLM picks top of Ojo Alamo at 417 ft.

H_2S has not been reported in this section, however, low concentrations of H_2S (11 ppm – 27 ppm GSV) have been reported in wells within a 1 mile radius of this location.

Operator must run a CBL to verify cement top. Submit the electronic copy of the log for verification to the following addresses: jwsavage@blm.gov tsalyers@blm.gov Brandon.Powell@state.nm.us

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.