Form 3160-5 (August 2007)

# DEPAI BURE

UNITED STATES RTMENT OF THE INTERIOR	FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010
AU OF LAND MANAGEMENT	5 Logge Coriel No.

SUNDRY NOTICES AND REPORTS ON WELLS

NMSF078899

Do not use this form for propose abandoned well. Use form 3160-3	6. If Indian, Allottee or Tribe Name	
SUBMIT IN TRIPLICATE - Other in	7. If Unit or CA/Agreement, Name and/or No. NMNM119486	
Type of Well	8. Well Name and No. BERGER A 2S	
	tact: RHONDA SMITH da_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
<ol> <li>Location of Well (Footage, Sec., T., R., M., or Survey Desc. Sec 21 T26N R11W SESE 665FSL 775FEL 36.468136 N Lat, 108.003126 W Lon</li> </ol>	ription)	11. County or Parish, and State SAN JUAN COUNTY, NM
	C) TO DIDICATE MATURE OF NOTICE	DEPORT OF OTHER DATA

## 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		
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity		
☐ Subsequent Report	☐ Casing Repair	□ New Construction	Recomplete	Other		
☐ Final Abandonment Notice	☐ Change Plans	☑ Plug and Abandon	☐ Temporarily Abandon			
Ph	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 1 1 2016

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

which would entitle the applicant to conduct operations thereon.

Notify NMOCD 24 hrs prior to beginning operations

SEE ATTACHED FOR CONDITIONS OF APPROVAL

14. I hereby certify that the	ne foregoing is true and correct.  Electronic Submission #326262 verifie For XTO ENERGY INC, Committed to AFMSS for processing by JA	sent to	the Farmington	
Name (Printed/Typed)	RHONDA SMITH	Title	REGULATORY CLERK	The state of the s
Signature	(Electronic Submission)	Date	12/14/2015	
Albert Small	THIS SPACE FOR FEDERA	AL OR	STATE OFFICE USE	
Approved By JACK SA	AVAGE	TitleF	ETROLEUM ENGINEER	Date 01/04/2016
	ny, are attached. Approval of this notice does not warrant or			

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 \*\*



Office Farmington

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.
- 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

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	SURFACE; 12 1/4 in; 250.0
242.5	242.4	0.9	Surface; 9 5/8 in; 242.3 ftKB
341.9	341.8	0.7	
516.1	516.0	0.6	INTRM1; 8 3/4 in; 1,385.0 ftKB
1,340.9	1,290.2	47.5	
1,380.9	1,314.7	52.7	
1,384.8	1,317.1	53.2	Intermediate; 7 in; 1,382.4 ftKB
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	Rod String; 3/4 in; 1,536.0 ftKB
1,548.6	1,388.2	73.9	or many light of the control of the
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	PROD1; 6 1/8 in; 3,055.0 ftKB
2,291.0	1,437.2	90.0	Slotted Liner, 1,751.0-2,955.0
2,610.6	1,438.7	89.4	
2,885.2	1,440.3	90.2	
3,020.3	1,440.2	89.5	PBTD; 3,017.0 ftKB Production; 4 1/2 in; 3,022.0
3,055.1	1,440.5	89.5	ftKB TD - Original Hole; 3,055.0 ftKB

	0,241.00			0,2	20.00		13.00	
Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	
Sucker Rod w/Molded Guides	3/4	Helian.	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	The Heav	97	1	25.00	1,491.5	1,516.5	
Lift Sub	ift Sub 1		The second	1	1.00	1,516.5	1,517.5	
Spiral Rod Guide	3/4	The same		1	0.50	1,517.5	1,518.0	
Rod Insert Pump	ert 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		11 711						
Run Date	Des	te ila	OD (in)	D (in) Top (ftKB)		Bt	Btm (ftKB)	
The state of the s				STATE OF THE PARTY		Marie College	CONTRACT TO SERVICE	

All Mark Charles Control of Control		
Date	Top (ffKB)	
THE PARTY NAMED IN COLUMN TWO IS NOT THE OWNER.	1	_

Page 2/2

1,751.0 2,955.0 Fruitland Coal, Original Hole

۱	Stimulations & To	reatments					
1	Frac#	Top Perf (ftKB)	Bottom Perf (ftKB)	AIR (bbl/min)	MIR (bbl/min)	TWP (bbl)	Total Proppant (lb)
1	The Table			TO INTO LANGE			

XTO Energy

Report Printed: 6/25/2015



## **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 T26N-R11W-S21	Spud Date 3/11/2006 00:00	Original KB Elevation (ft) 6,241.0		KB-Ground Distance (ft) 13.00

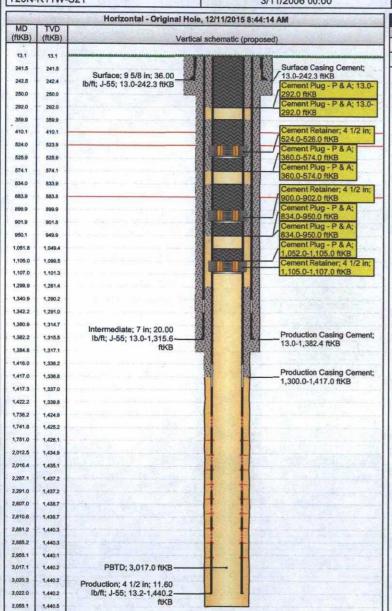
	TVD	Incl		T. A		Wellbores					THE STATE OF THE S		
MD (ftKB)	(ftKB)	(°)		Verti	cal schematic (actual)	Wellbore Name Original Hole Parent Wellbore Original Hole		Wellbore APV	Wellbore APVUWI				
9.8	9.8	0.0		ma Janapan		Start Depth (ftKB)	1	Profile Type		TEN AL	Kick Off Depth	(ftKB)	
21.0	21.0	0.1				Section Des	13.0	Size (in)		Act Top (f	ekr)	Act Btm	(#KB)
			-888			SURFACE		Size (III)	12 1/4	Au Top (	13.0	ACI DO	250.
42.0	42.0	0.2			SURFACE; 12 1/4 in; 250.0	INTRM1	EAA 7		8 3/4	W-12	250.0		1,385
2425	242.4	0.9	<b>88</b>		Surface; 9 5/8 in; 242.3 ftKB	PROD1			6 1/8		1,385.0		3,055
242.5	242.4	0.9			Out 1800, 5 0/0 III, 242.0 IU.0	Zones			0 1/0		1,500.0		0,000
341.9	341.8	0.7				Zone Name		Top (ftKB)		Btm (fith	(8)	Current	Status
			- 0			Fruitland Coal	De la Constitución de la Constit		1,751.0		2,955.0		
516.1	516.0	0.6			INTRM1; 8 3/4 in; 1,385.0 ftKB	Casing Strings		-			(		
1,340.9	1,290.2	47.5	88			Csg Des	Set Depth (ftKi		OD (in)		Wt/Len (lb/ft)	Charles Called	Grade
1,010.0	1,200.2	47.0				Surface		242.3		9 5/8		36.00 J-55	
1,380.9	1,314.7	52.7	- 88			Intermediate	The same	1,382.4		7		20.00 J-55	
			- 88		Intermediate; 7 in; 1,382.4 ftKB	Production	Si E I	3,022.0		4 1/2	To Part Line Cont	11.60 J-55	
1,384.8	1,317.1	53.2	San			Cement							-
1,417.0	1,336.8	57.3	M			Des			Type			String	
1,417.0	1,000.0	37.3		9 II 84		Surface Casing Cement		Casing			Surface, 24		
1,422.2	1,339.8	58.0				Intermediate Casing Cement		Casing			Intermedia	te, 1,382.4ftKB	
2000	- 11 111 1			摄	Marie 4, 200 marie 2, 201 12,11 and	Production Casing Cement	547	Casing			Production	, 3,022.0ftKB	
1,491.1	1,369.2	67.9				Tubing Strings							
1,516.4	1,379.9	71.5		业		Tubing Description Tubing - Production		Run Date	2/20/2013		Set Depth (ftK)	3)	1,586
		-/-				Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Top (RKB)	Btm (ftKB)
1,518.0	1,380.4	71.6		4		Tubing Sub	2 3/8	4.70	J-55	1	8.10	13.0	21
1,536.1	1,385.0	73.0	2	道	Rod String; 3/4 in; 1,536.0 ftKB	Tubing	2 3/8	4.70	J-55	46	1,514.85	21.1	1,536
		75				Seat Nipple	2 3/8			1	0.75	1,536.0	1,536
1,548.6	1,388.2	73.9				Tubing Sub	2 3/8	4.70	J-55	1	12.00	1,536.7	1,548
1,585.6	1,397.7	76.7				Tubing	2 3/8	4.70	J-55	1	32.90	1,548.7	1,581
1,585.6	1,397.7	70.7				Perforated Sub	2 3/8	THE PARTY		1	4.10	1,581.6	1,585
1,738.2	1,424.9	82.9				Bull Plug	2 3/8			1	0.30	1,585.7	1,586
Atloviosis						Rod Strings		THE RESERVE	COLUMN SON			V 5-10-10-10-10-10-10-10-10-10-10-10-10-10-	
1,751.0	1,426.1	84.1			The state of the s	Rod Description		Run Date			Set Depth (ftK	B)	
		07.4			is a second	Rod String			2/20/2013				1,536
2,016.4	1,435.1	87.4			PROD1; 6 1/8 in; 3,055.0 ftKB	Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
2,291.0	1,437.2	90.0			Slotted Liner; 1,751.0-2,955.0	Polished Rod	1 1/4			1	16.00	10.0	26
					ftKB	Rod Sub	3/4		D	3	16.00	26.0	42
2,610.6	1,438.7	89.4				Sucker Rod	3/4		D	12	300.00	42.0	342
2.005.2	1.440.0	00.0				4-Sinker Bars w/5 - 7/8 stbs	1 1/4		С	4	120.00	342.0	462
2,885.2	1,440.3	90.2				2-Sinker Bars w/1 - 7/8 stbs	1 1/4		C	2	54.00	462.0	516
3,020.3	1,440.2	89.5			PBTD; 3,017.0 ftKB Production; 4 1/2 in; 3,022.0 ftKB	Sucker Rod w/Molded Guides	3/4		D	37	925.00	516.0	1,441
3,055.1	1,440.5	89.5		THE PARTY	TD - Original Hole; 3,055.0 ftKB	2 10 10 10 10 10 10 10 10 10 10 10 10 10				4.75	STATE NOTE		Total Const



# **XTO - Proposed P&A Wellbore Diagram**

Well Name: Berger A 02S

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



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

**XTO Energy** 

Page 2/2

Report Printed: 12/11/2015



# XTO - Proposed P&A Wellbore Diagram

Well Name: Berger A 02S

AP/UWI XTO Accounting ID 68314  .ocation Spud Date 3/11/2006 00:00			Permit Number State/Province New Mexico			County San Juan						
			Original KB Elevation (ft) Ground/Corrected Ground Elevation (ft) KB-Ground Distance (ft) 6,241.00 KB-Ground Distance (ft)						∞ (ft)	13.		
50,0	a sultin	Horizontal - Original H	ole, 12/11/2015 8:44:14 AM		Formations	-						
MD TVD				Formation Name				Fina	Top MD (ftKB)	Final Bottom MD (ftKE		
(KB)	(ftKB)	Vertical schematic (proposed)			Nacimiento Formation Name				Fire	13.		41
3,1	13.1	· · · · · · · · · · · · · · · · · · ·	A RIS (SEE SEE SEE SEE SEE SEE SEE SEE SEE S		Ojo Alamo				Fina	Top MD (ftKB) 410.	Final Bottom MD (ftKE	52
41.5	241.5	Surface: 9 5/8 in: 36.00	Surface Casing Cement; urface; 9 5/8 in; 36.00			Formation Name				Top MD (ftKB)	Final Bottom MD (ftKE	
42.5	242.4	lb/ft; J-55; 13.0-242.3 ftKB	Cemer	nt Plug - P & A; 13.0-	Kirtland					524.		88
50.0	250.0	2	292.0 f	nt Plug - P & A; 13.0-	Formation Name Fruitland Coal				Fina	Top MD (ffKB) 884.	Final Bottom MD (ftKE	3)
92.0	292.0 359.9		292.0 1		Wellbores					004.	.0	
10,1	410.1		Cemer	nt Retainer; 4 1/2 in;	Wellbore Name			Parer	nt Wellbore			
24.0	523.9		524.0-	Original Hole Original Ho								
25.9	525.9			nt Plug - P & A; 574.0 ftKB	Start Depth (ftKB)		Profile Type			Kick Off Depth (ftKE	3)	
74.1	574.1			nt Plug - P & A;			3.0		1			-
34.0	833.9		88	574.0 ftKB nt Retainer; 4 1/2 in;	Casing Strings		And the second second				فينت دراياني	
83.9	883.8		900.0-	902.0 ftKB	Csg Des Surface	Set Dept	242.3	OD (in)	9 5/8	Wt/Len (lb/ft) 36.0	O J-55	
99.9	899.9		Cemer	nt Plug - P & A; 950.0 ftKB		CHE LONG THE STATE OF THE STATE			9 5/6			
01.9	901.8		Cemer	nt Plug - P & A;	Intermediate		1,382.4		140		00 J-55	2700
50.1	949.9		834.0-	950.0 ftKB nt Plug - P & A;	Production		3,022.0		4 1/2	11.6	30 J-55	
051.8	1,049.4		/1.052.0	0-1,105.0 ftKB	Cement						Carried Tolkins	
05.0	1,099.5			nt Retainer; 4 1/2 in; 0-1,107.0 ftKB	Surface Casing	Casing	Surface, 242			Com		
107.0	1,101.3		W 1,108.	0-1,107.0 IKB	Cement	Casing	Surface, 242	JIIND				
340.9	1,261.4		88 88		Production Casing	Casing	Production,					
342.2	1,290.2				Cement	Casing	3,022.0ftKB	10.10				
380.9	1,314.7		88 88		Intermediate	Casing	Intermediate					
382.2	1,315.5	Intermediate; 7 in; 20.00 lb/ft; J-55; 13.0-1,315.6		ction Casing Cement;	Casing Cement	Odding	1,382.4ftKB	100				
384.8	1,317.1	ftKB	13.0-1	,382.4 ftKB	Cement Plug - P &	Plug	Production,	Pluc	1 Pump	8 sx f/1,105' MD (1,10	0' TVD) to 1.052' N	MD.
A15.0	1,336.2				A	9	3,022.0ftKB		50' TVD)			
417.0	1,336.8		Produc	ction Casing Cement; .0-1,417.0 ftKB	Cement Plug - P &	Casing	Production,	Pluc	2: (outsid	e) Pump 23 sx f/950' -	834'	100
,417.3	1,337.0		1,300.0	0-1,417.0 IUAB	A		3,022.0ftKB		, (			
A22.2	1,339.8				Cement Plug - P &	Plug	Production,	Pluc	2: (inside	Pump 13 sx f/950' - 8	334'	7777
,738.2	1,424.9		- The second of the second of		A		3,022.0ftKB		OFFICE AND ADDRESS.			
1,741.8	1,425.2				Cement Plug - P &	Casing	Production,	Plug	3: (outsid	e) Pump 43 sx f/574' -	360'	
1,751.0	1,426.1				Α		3,022.0ftKB					
2,012.5	1,434.9		+ +		Cement Plug - P &	Plug	Production,	Plug	3: (inside	Pump 20 sx f/574' - 3	360'	\$77.W
2,016.4	1,435.1		1 1		A		3,022.0ftKB					
.287.1	1,437.2		+ +		Cement Plug - P &	Casing	Production,	Plug	4: (outsid	e) Pump 58 sx f/292' -	surf	العليل
291.0	1,437.2		-		A		3,022.0ftKB		ATT INTO			
.610.6	1,438.7		4 4		Cement Plug - P &	Plug	Production,	Plug	4: (inside	Pump 26 sx f/292' - s	surf	AT A
881.2	1,440.3				A		3,022.0ftKB	E RELIEF				
885.2	1,440.3		and a second		Perforations							
955.1	1,440.1				Date	Top (		Btm (ftKB)		positive framework	Zone	
017.1	1,440.2	PBTD; 3,017.0 ftKB			Mark Control of the C		1,751.0		2,955.0 F	ruitland Coal, Original	Hole	
020,3	1,440.2	Production; 4 1/2 in; 11.60			Other In Hole		***					
.022.0	1,440.2	lb/ft; J-55; 13.2-1,440.2			Des Des		OD (in)	OD (in)		Top (ftKB) Btm (ftKB)		
055.1	1,440.5	ftKB			Cement Retainer			4 1/2		1,105.0		1,10

# 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.