

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2014

**SUNDRY NOTICES AND REPORTS ON WELLS RECEIVED**  
*abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No. **126**  
6. If Indian, Allottee, or Tribe Name  
**Jicarilla Apache Tribe**

**SUBMIT IN TRIPLICATE - Other Instructions on page 2.**

MAR 26 2015

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
**Enervest Operating, LLC**

3a. Address  
**1001 Fannin St., Suite 800 Houston, TX 77002-6707**

3b. Phone No. (include area code)  
**713-659-3500**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**2310' FSL and 1850' FWL (UL K) Section 11, T24N, R4W**

7. If Unit or CA/Agreement Name and/or No.  
**Farmington Field Office  
Bureau of Land Management  
Apache No. 23**

8. Well Name and No.  
**Apache No. 23**

9. API Well No.  
**30-039-21491**

10. Field and Pool, or Exploratory Area  
**South Blanco Pictured Cliffs**

11. County or Parish, State  
**Rio Arriba County, NM**

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"/> 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	

Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration if the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with the 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 recompletion in a new interval, a Form 3160-4 must be filed if testing has been completed. Final Abandonment Notice 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.)

**EnerVest Operating, LLC proposes to plug and abandon this well.**

**P&A will commence prior to June 2015. The start and completion of this work is subject to changes due to rig availability, weather and road conditions.**

**A Closed-Loop System will be used for this operation. Attached are procedure and Wellbore Diagrams. Notify NMOCD 24 hrs prior to beginning operations**

OIL CONS. DIV DIST. 3

MAR 31 2015

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

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

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
**Michelle Doescher**

Title **Regulatory Consultant**

Signature *Michelle Doescher* Date **March /24/2015**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by **Troy Salyers** Title **PE** Date **3/27/2015**

Office **FFO**

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.

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 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)

NMOCD

LC

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## PLUG AND ABANDONMENT PROCEDURE

March 13, 2015

### Apache #23

South Blanco Pictured Cliffs  
2310' FSL and 1850' FWL, Section 11, T24N, R4W  
Rio Arriba County, New Mexico / API 30-039-21491  
Lat: N 36.32344/ Long: W -107.22784

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 , No , Unknown   
Tubing: Yes , No , Unknown , Size 1-1/4", Length 2927'  
Packer: Yes , No , Unknown , Type   
If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.  
TOH and LD 1-1/4" tubing. PU 2-3/8" tubing workstring.
4. **NOTE: BLM requires a CBL log to be run on all wells where the cement did not circulate to surface or a CBL log was not previously run. This procedure is prepared with the understanding that it may be modified based on the TOC from the CBL.**
5. **Plug #1 (Pictured Cliffs Interval, Fruitland, Kirtland and Ojo Alamo tops, 2876' – 2180')**: Round trip gauge ring or casing scraper to 2876', or as deep as possible. RIH and set 4.5" cement retainer at 2876'. Pressure test tubing to 1000 PSI. Load casing with water and circulate well clean. Pressure test casing to 800#. **If the casings do not test, then spot or tag subsequent plugs as appropriate.** Circulate well clean. Mix 57 sxs Class B cement inside casing from CR to isolate the Pictured Cliffs Interval and through Ojo Alamo interval. TOH.  
**See COA**
6. **Plug #2 (Nacimiento top, 908' – 808')**: Perforate HSC squeeze holes at 908'. Establish injection rate. RIH and set CR at 858'. TIH with tubing and sting into CR. Establish rate. Mix 51 sxs Class B cement, squeeze 39 sxs outside casing and leave 12 sxs inside casing. PUH.
7. **Plug #3 (8.625" Surface casing shoe, 230' – 0')**: Perforate 3 squeeze holes at 230'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 47 sxs Class B cement and pump down the 4.5" casing to circulate good cement to surface. Shut in well and WOC.
8. ND cementing valves and cut off wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and cut off anchors. Restore location per BLM stipulations

# Apache #23 Current

South Blanco Pictured Cliffs  
2310' FSL, 1850' FWL, Section 11, T-24-N, R-4-W,  
Rio Arriba County, NM / API #30-039-21491  
Lat N 36.32344 / Long W -107.22784

Today's Date: 3/13/15  
Spud: 10/24/77  
Completed: 12/1/77  
Elevation: 6785' GL  
6797' KB

12.25" hole

8.625" 24#, Casing set @ 180'  
Cement with 250 sxs, circulated to surface

Nacimiento @ 858' \*est

1.25" tubing at 2927'  
(sleeve with crosspin to SN @ 2914')

TOC unknown, did not circulate

Ojo Alamo @ 2230'

Kirtland @ 2594'

Fruitland @ 2727'

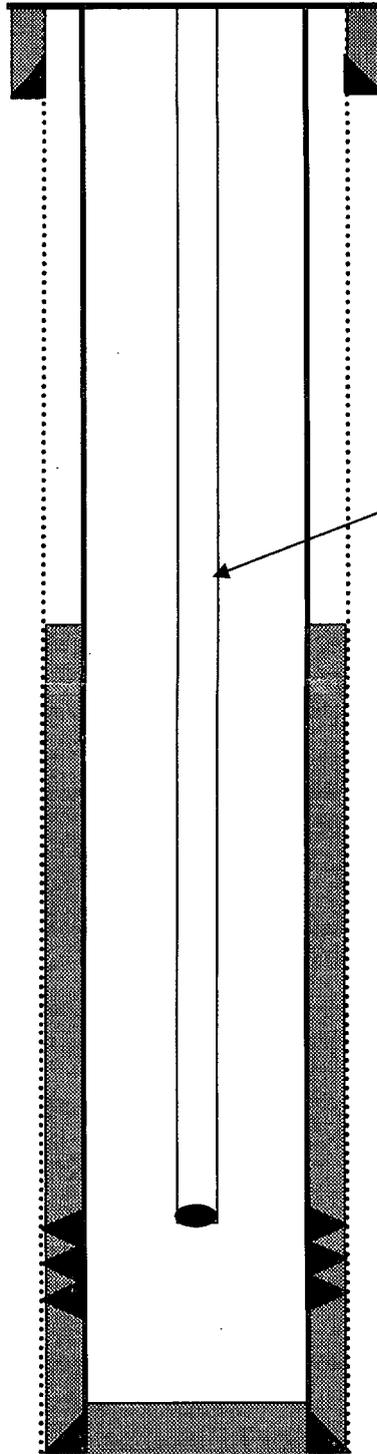
Pictured Cliffs @ 2897'

Pictured Cliffs Perforations:  
2926' - 2960'

7.875" hole

4.5", 10.5#, K-55 Casing set @ 3082'  
Cement with 200 sxs

TD 3125'  
PBD 3035'



# Apache #23 Proposed P&A

South Blanco Pictured Cliffs  
2310' FSL, 1850' FWL, Section 11, T-24-N, R-4-W,  
Rio Arriba County, NM / API #30-039-21491  
Lat N 36.32344 / Long W -107.22784

Today's Date: 3/13/15  
Spud: 10/24/77  
Completed: 12/1/77  
Elevation: 6785' GL  
6797' KB

12.25" hole

Nacimiento @ 858' \*est

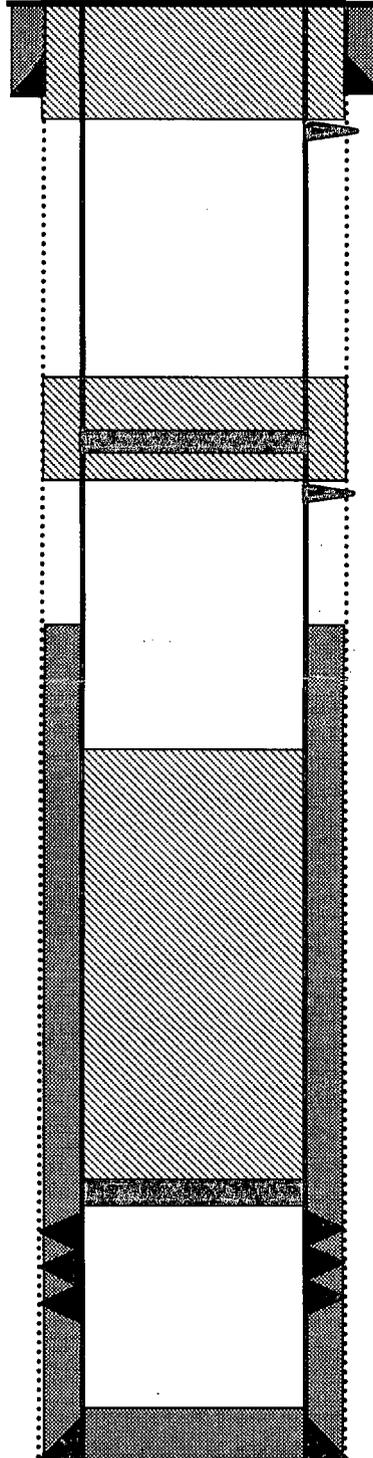
Ojo Alamo @ 2230'

Kirtland @ 2594'

Fruitland @ 2727'

Pictured Cliffs @ 2897'

7.875" hole



8.625" 24#, Casing set @ 180'  
Cement with 250 sxs, circulated to surface

Perforate @ 230'      **Plug #3: 230' - 0'**  
Class B cement, 47 sxs

Set CR @ 858'      **Plug #2: 908' - 808'**  
Class B cement, 51 sxs  
39 outside and 12 inside

Perforate @ 908'

TOC unknown, did not circulate

**Plug #1: 2876' - 2180'**  
Class B cement, 57 sxs

Set CR @ 2876'

Pictured Cliffs Perforations:  
2926' - 2960'

4.5", 10.5#, K-55 Casing set @ 3082'  
Cement with 200 sxs

TD 3125'  
PBD 3035'

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: Apache #23

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Leases."
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 (1078-978) ft. inside/outside to cover the Nacimiento top. BLM picks top of Nacimiento at 1028 ft.

Operator will run a CBL to verify cement top. Outside plugs will be required per CBL result. Submit a copy of the log for verification to the following addresses, [tsalyers@blm.gov](mailto:tsalyers@blm.gov)  
[Brandon.Powell@state.nm.us](mailto: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.