



**PLUG AND ABANDONMENT PROCEDURE  
Proposed P&A (Originally PB in 2007)**

May 9, 2013

**Jicarilla 29-03-01 #2**

East Blanco Pictured Cliffs / Cabresto Canyon; Tertiary  
2045' FNL & 860' FEL, SW, Section 1, T29N, R3W  
Rio Arriba County, New Mexico, API #30-039-26866

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. Note: this well will use a base beam. 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 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 X, Unknown \_\_\_\_\_.  
Tubing: Yes \_\_\_\_\_, No X, Unknown \_\_\_\_\_, Size \_\_\_\_\_, Length \_\_\_\_\_.  
Packer: Yes \_\_\_\_\_, No X, Unknown \_\_\_\_\_, Type \_\_\_\_\_.

Note: Prior to spotting Plug #3, tag Plug #2 (2007). PU tubing workstring and TIH. Tag existing Plug #2 cement at 3140' or as deep as possible. If plug tags lower then contact company engineer. PUH.

4. **Plug #3 (Nacimiento top, 2170' – 2070'): Attempt to pressure test casing; if casing does not pressure test then spot or tag subsequent plugs as appropriate.** Mix 17 sxs cement and spot a balanced plug inside the casing to cover the Nacimiento top. PUH.
5. **Plug #4 (8-5/8" Surface casing shoe, 325' - Surface):** 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 41 sxs cement and spot a balanced plug from 325' 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 325' and the annulus from the squeeze holes to surface. Shut in well and WOC.
6. ND BOP and NU wellhead. RD and MOL. Restore location per BLM stipulations.

# Jicarilla 29-03-01 #2

## Plugback 2007

East Blanco Pictured Cliffs /Cabresto Canyon; Tertiary

2045' FNL & 860' FEL, NE, Section 1, T-29-N, R-3-W

Rio Arriba County, NM / API #30-039-26866

Today's Date: 5/9/13

Spud: 5/30/03

Completion: 8/29/03

Elevation: 7321' GI  
7336' KB

12.25" hole

8.625" 24#, K-55 Casing set @ 275'  
Cement with 110 sxs (Circulated to Surface)

Nacimiento @ 2120'

Ojo Alamo @ 3308'

Kirtland @ 3513'

Fruitland Coal @ 3646'

Pictured Cliffs @ 3724'

7.875" hole

2007 Plug #2: 3310' – 3140'  
Type III cement, 22 sxs

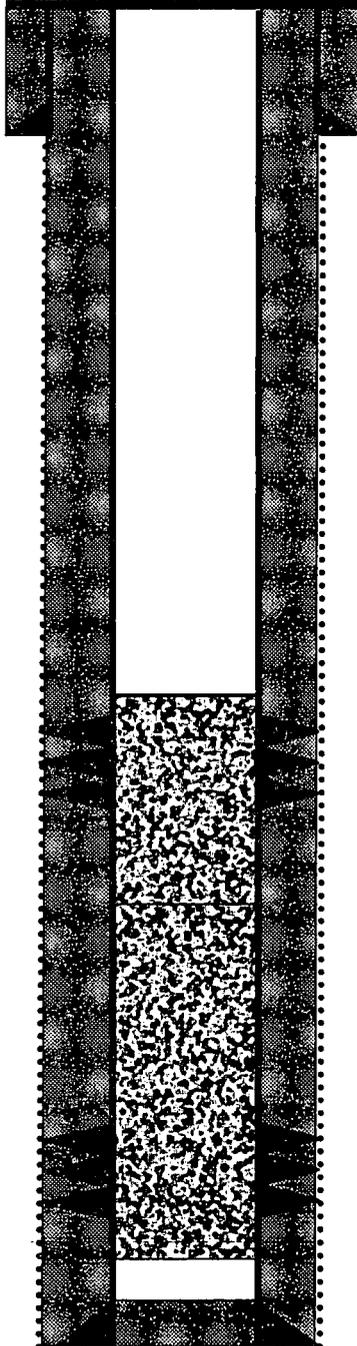
Nacimiento Perforations:  
3254' – 3268'

2007 Plug #1: 3770' – 3310'  
Type III cement, 49 sxs

Pictured Cliffs Perforations:  
3726' – 3736'

5.5" 15.5#, K-55 Casing set @ 3830'  
Cemented with 900 sxs  
Circulated 3 bbls cmt to surface

TD 3830'  
PBSD 3784'



# Jicarilla 29-03-01 #2

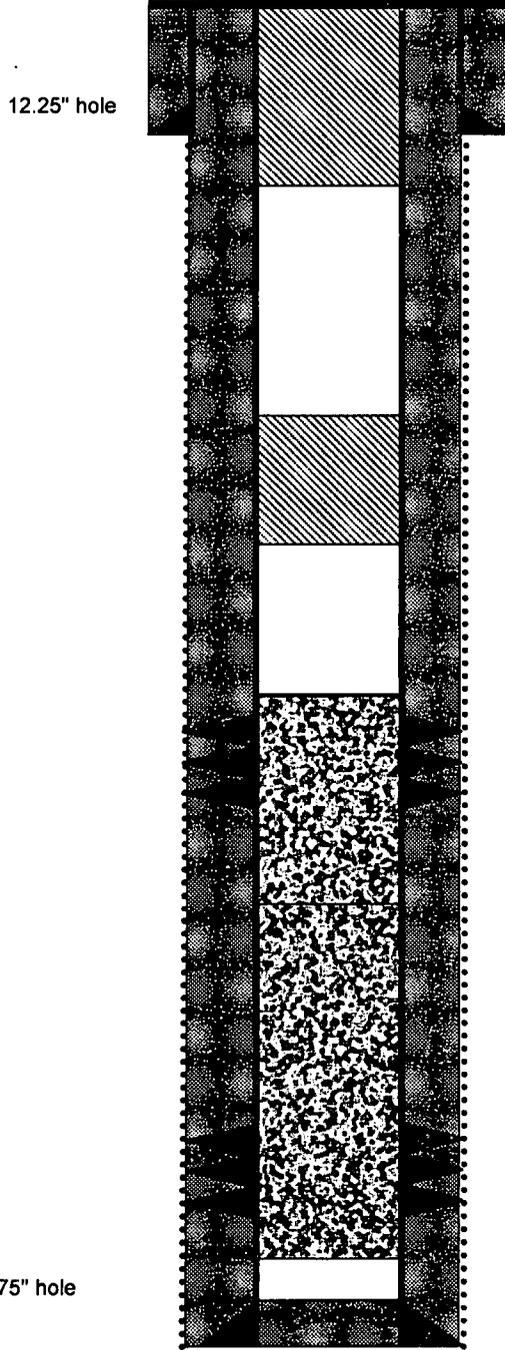
## Proposed P&A

East Blanco Pictured Cliffs /Cabresto Canyon; Tertiary

2045' FNL & 860' FEL, NE, Section 1, T-29-N, R-3-W

Rio Arriba County, NM / API #30-039-26866

Today's Date: 5/9/13  
 Spud: 5/30/03  
 Completion: 8/29/03  
 Elevation: 7321' GI  
 7336' KB



8.625" 24#, K-55 Casing set @ 275'  
 Cement with 110 sxs (Circulated to Surface)

**Plug #4: 325' - 0'**  
 Type III cement, 41 sxs

**Plug #3: 2170' - 2070'**  
 Type III cement, 17 sxs

**2007 Plug #2: 3310' - 3140'**  
 Type III cement, 22 sxs

Nacimiento Perforations:  
 3254' - 3268'

**2007 Plug #1: 3770' - 3310'**  
 Type III cement, 49 sxs

Pictured Cliffs Perforations:  
 3726' - 3736'

5.5" 15.5#, K-55 Casing set @ 3830'  
 Cemented with 900 sxs  
 Circulated 3 bbls cmt to surface

Nacimiento @ 2120'

Ojo Alamo @ 3308'

Kirtland @ 3513'

Fruitland Coal @ 3646'

Pictured Cliffs @ 3724'

TD 3830'  
 PBTD 3784'

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: 2 Jicarilla 29-03-01

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) You are required to have H2S monitoring equipment and personnel on location during plugging operations.

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.