

PLUG AND ABANDONMENT PROCEDURE

June 28, 2016

Jicarilla 451-09 #131

East Blanco Pictured Cliffs

1645' FSL, 1210' FWL, Section 9, T29N, R3W, Rio Arriba County, NM

API 30-039-29444 / Long: _____ / 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 will use 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 2-3/8" , Length 2981'.
Packer: Yes _____, No , 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 interval and Fruitland, Kirtland, Ojo Alamo tops, 4008' – 3133')**: Round trip 5.5" mill to 4008' or as deep as possible. PU 5.5" Hydroset CIBP and RIH; set at 4008'. **Attempt to pressure test casing. If casing does not test then spot or tag subsequent plugs as appropriate.** Mix 106 sxs Class B cement and spot a plug inside the casing above the CIBP to isolate the PC interval and cover through the Ojo Alamo top. PUH.
5. **Plug #2 (Nacimiento top, 2078' – 1978')**: Mix 17 sxs Class B cement and spot a balanced plug inside the casing to cover the Nacimiento top. TOH.
6. **Plug #3 (8-5/8" Surface casing shoe, 367' - Surface)**: Perforate 3 squeeze holes at 367'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 117 sxs Class B cement and pump down the 5.5" casing to circulate good cement to surface. Shut in well and WOC.
7. ND BOP and cut off wellhead below surface casing flange. 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.

Jicarilla 451-09 #131
CURRENT Wellbore Diagram
 API # 30-039-29444
 NWSW Sec 9, T29N, R3W Rio Arriba, NM

Spud: 4/17/2007
 Compl: 5/18/2007

Elev = 7063' GL
 Elev = 7075' KB

12 1/4" hole

SURFACE CASING

8 5/8", 24#, J-55 casing @
 317'. Cmt w/ 200 sx. Circ 16
 bbls cmt to surface.

7 7/8" hole

Nacimiento 2028' MD = 2028' TVD

Ojo Alamo 3183' MD = 3174' TVD

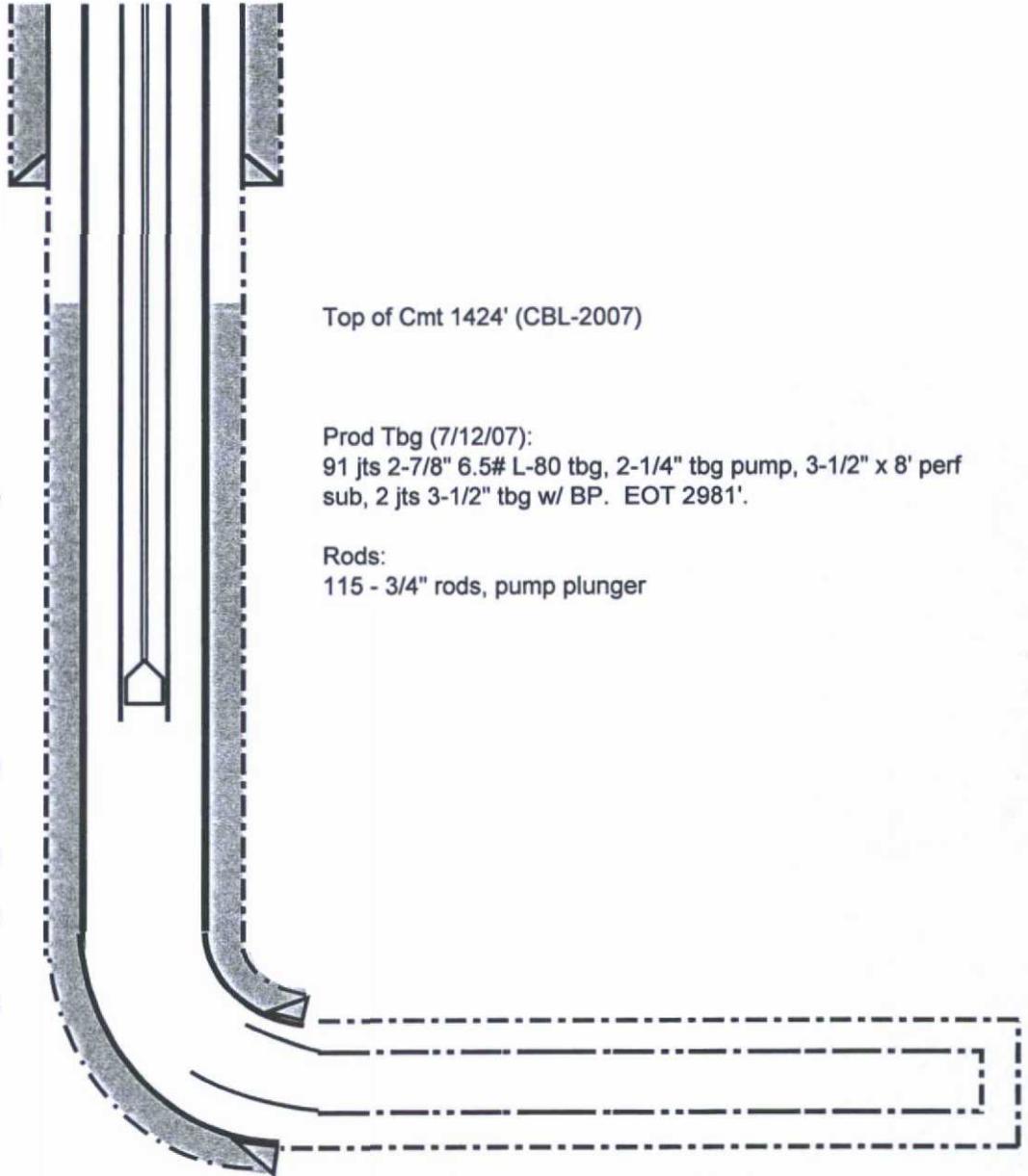
Kirtland 3452' MD = 3402' TVD

Fruitland 3702' MD = 3565' TVD

Pictured Cliffs 3979' MD = 3672' TVD

PROD CASING

5 1/2", 17#, J-55 casing @
 4111' MD. Cmt w/ 650 sx.
 Ran CBL 5/9/07, TOC at
 1424'.



Top of Cmt 1424' (CBL-2007)

Prod Tbg (7/12/07):

91 jts 2-7/8" 6.5# L-80 tbg, 2-1/4" tbg pump, 3-1/2" x 8' perf
 sub, 2 jts 3-1/2" tbg w/ BP. EOT 2981'.

Rods:

115 - 3/4" rods, pump plunger

4 3/4" lateral hole from 4111' to 6231' MD
 inclination at 4111' = 83 degrees

Tubing Liner Detail:

2 7/8", 7.9#, N-80 tbg liner (uncemented) from 4058' (on-off
 tool) to 6212'. 6 pre-perfed jts with tops at 4060', 4558', 4964',
 5369', 5770', 6180'. Each jt has 28 - 0.75" holes.

Jicarilla 451-09 #131
PROPOSED P&A Diagram
 API # 30-039-29444
 NWSW Sec 9, T29N, R3W Rio Arriba, NM

6/28/2016

Spud: 4/17/2007
 Compl: 5/18/2007

Elev = 7063' GL
 Elev = 7075' KB

12 1/4" hole

SURFACE CASING

8 5/8", 24#, J-55 casing @
 317'. Cmt w/ 200 sx. Circ 16
 bbls cmt to surface.

Plug #3: 367' - 0'
 Class B cement, 117 sxs

7 7/8" hole

Perforate @ 367'

Top of Cmt 1424' (CBL-2007)

Nacimienta 2028' MD = 2028' TVD

Plug #2: 2078' - 1978'
 Class B cement, 17 sxs

Ojo Alamo 3183' MD = 3174' TVD

Plug #1: 4008' - 3133'
 Class B cement, 106 sxs

Kirtland 3452' MD = 3402' TVD

Fruitland 3702' MD = 3565' TVD

Pictured Cliffs 3979' MD = 3672' TVD

Set Hydroset CIBP @ 4008'

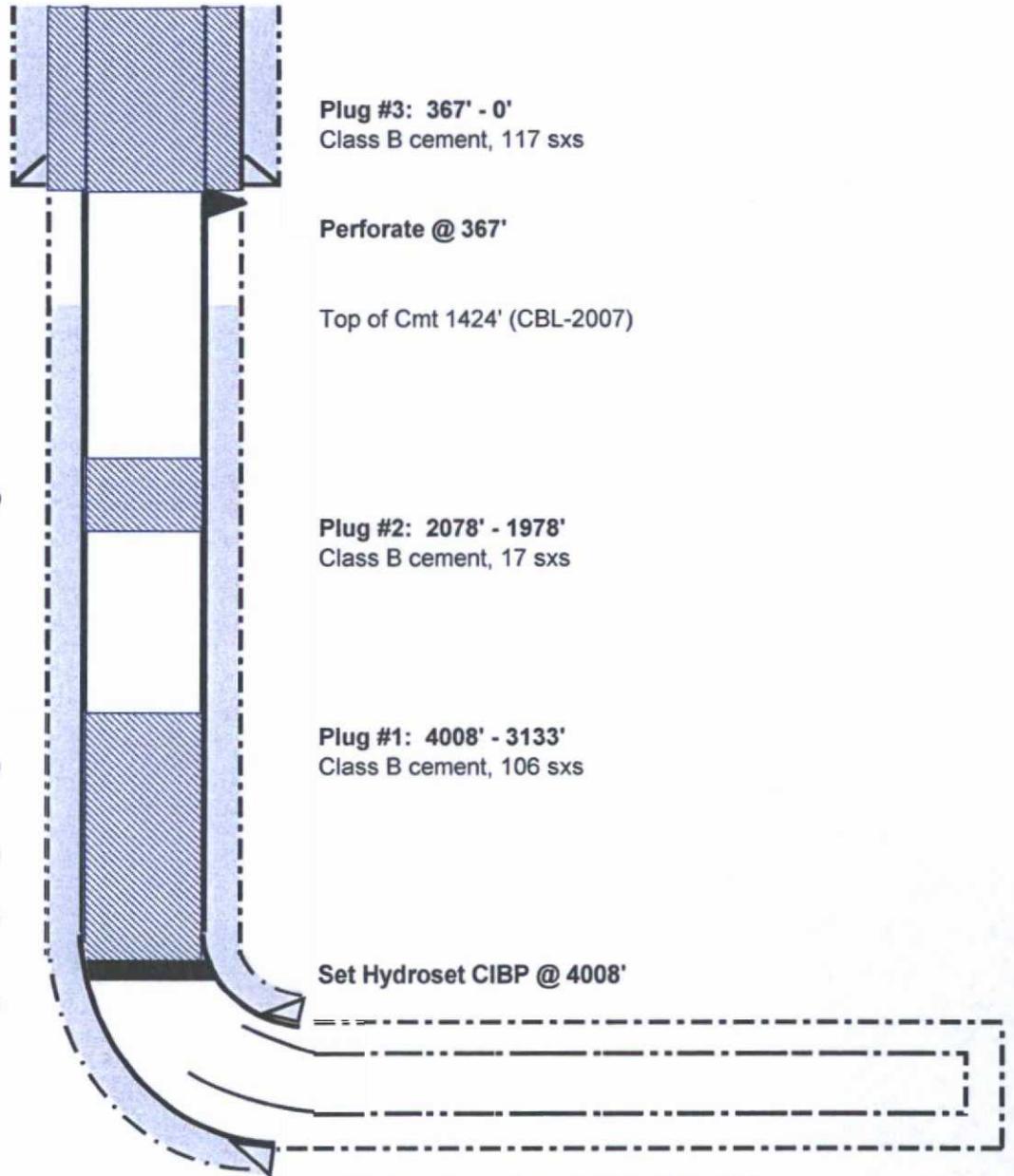
PROD CASING

5 1/2", 17#, J-55 casing @
 4111' MD. Cmt w/ 650 sx.
 Ran CBL 5/9/07, TOC at
 1424'.

4 3/4" lateral hole from 4111' to 6231' MD
 inclination at 4111' = 83 degrees

Tubing Liner Detail:

2 7/8", 7.9#, N-80 tbg liner (uncemented) from 4058' (on-off tool) to 6212'. 6 pre-perfed jts with tops at 4060', 4558', 4964', 5369', 5770', 6180'. Each jt has 28 - 0.75" holes.



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: Jicarilla 451-09 #131

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) Bring the top of plug #2 to 1870 ft. to cover the Nacmiento top. BLM picks top of Nacimientos at 1920 ft. Adjust cement volume accordingly.

CBL (2007) will suffice for verification of TOC.

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.