

PLUG AND ABANDONMENT PROCEDURE

July 2, 2003

Jicarilla BR E #4

South Blanco Pictured Cliffs
1505' FSL & 1785' FEL Section 18, T25N, R4W
Rio Arriba County, New Mexico, API #30-039-06001
Lat: N 36° 23' 47.0" / Long: W 107° 77' 27.9"

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 is ASTM Type II, mixed at 15.6ppg with a yield of 1.18 cf/sx.

1. Install and test location rig anchors. Prepare blow pit. Comply with all NMOCD, BLM, and ConocoPhillips safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. NU relief line and blow down well; kill with water as necessary. ND wellhead and NU BOP. Test BOP.
2. TOH, tally and inspect 2-3/8" tubing, total 3302'. If necessary, LD tubing and PU workstring. Round-trip 5-1/2" casing scraper or gauge ring to 3300', or as deep as possible.
3. **Plug #1 (Pictured Cliffs perforations and Fruitland, Kirtland and Ojo Alamo tops, 3275' – 2715')**: TIH and set 5-1/2" cement retainer at 3275'. Pressure test tubing to 1000#. Load casing with water and circulate well clean. Pressure test casing to 500#. If casing does not test, then spot or tag subsequent plugs as appropriate. Mix 68 sxs cement and spot a balanced plug inside the casing above the CR to isolate the Pictured Cliffs perforations and cover through the Ojo Alamo top. TOH with tubing.
4. **Plug #2 (Nacimiento top, 1280' – 1180')**: Perforate 3 squeeze holes at 1280'. If the casing tested, then establish rate into squeeze holes. Set a 5-1/2" cement retainer at 1230'. Mix and pump 60 sxs cement, squeeze 43 sxs outside 5-1/2" casing and leave 17 sxs inside casing to cover the Nacimiento top. TOH and LD tubing.
5. **Plug #3 (9-5/8" Surface casing, 182' - Surface)**: Perforate 3 squeeze holes at 182'. Establish circulation out bradenhead with water. Mix and pump approximately 75 sxs cement down 5-1/2" casing and circulate good cement out bradenhead valve. Shut well in and WOC.
6. ND BOP and cut off casing below surface. Install P&A marker with cement to comply with regulations. RD, move off location, cut off anchors and restore location.

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Proposed P&A

So. Blanco Pictured Cliffs

1505' FSL & 1785' FEL, Section 18, T-25-N, R-4-W,

Rio Arriba County, NM / API #30-039-06001

Lat: N 36° 23' 47.0" / Long: W 107° 17' 22.9"

Today's Date: 7/2/03

Spud: 6/13/57

Completed: 6/25/57

Elevation: 7001' GL
7010' KB

Nacimiento @ 1230'

Ojo Alamo @ 2765'

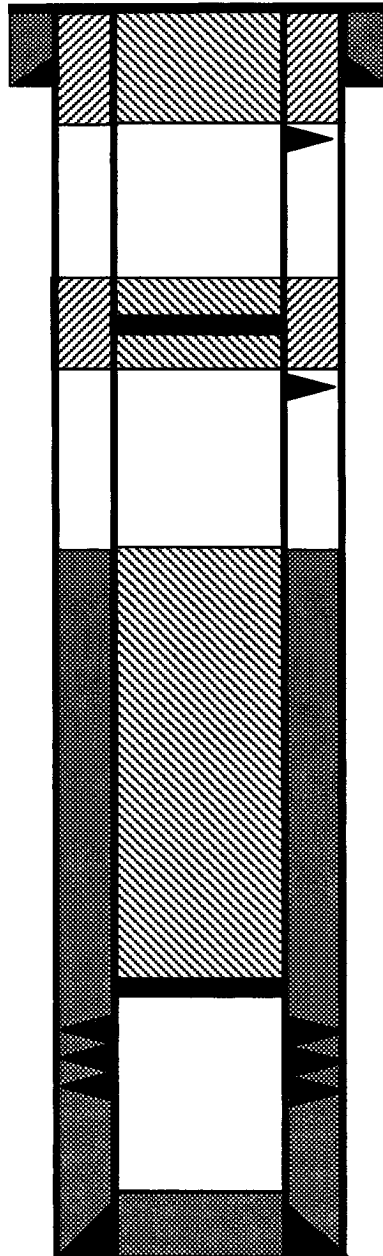
Kirtland @ 2923'

Fruitland @ 3143'

Pictured Cliffs @ 3311'

8-3/4" Hole

13-3/4" hole



9-5/8" 25.4#, Casing set @ 132'
Cement with 100 sxs, Circulated to Surface

Perforate @ 182'

Plug #3: 182' - Surface
Cement with 75 sxs

Cmt Retainer @ 1230'

Plug #2: 1280' - 1180'
Cement with 60 sxs,
43 sxs outside casing
and 17 sxs inside.

Perforate @ 1280'

TOC @ 2774' (Calc, 75%)

Plug #1: 3275' - 2715'
Cement with 68 sxs

Set CR @ 3275'

Pictured Cliffs Perforations:
3314' - 3362'

5-1/2" 15.5#, J-55 Casing set @ 3400'
Cement with 150 sxs (211 cf)

TD 3400'
PBTD 3378'

Jicarilla BR E #4

Current

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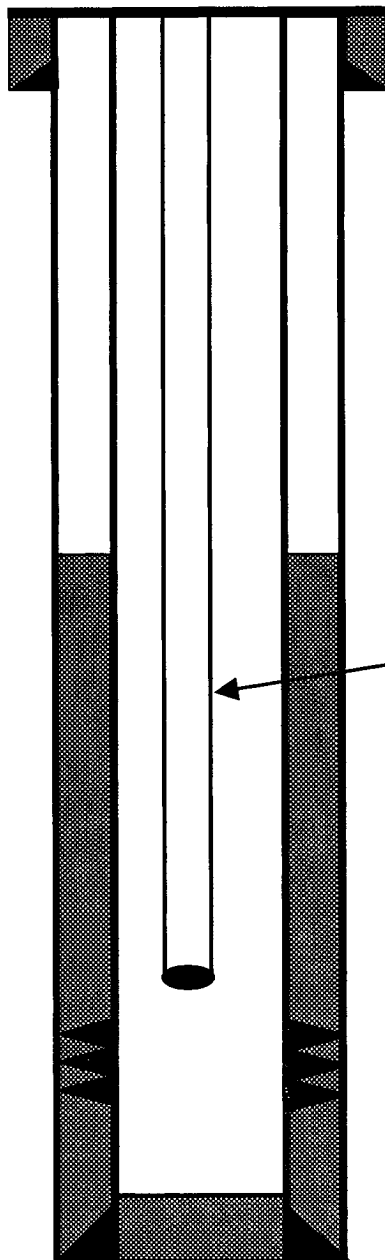
Kirtland @ 2923'

Fruitland @ 3143'

Pictured Cliffs @ 3311'

8-3/4" Hole

13-3/4" hole



9-5/8" 25.4#, Casing set @ 132'
Cement with 100 sxs, Circulated to Surface

Well History

No workovers in the records.

TOC @ 2774' (Calc, 75%)

2-3/8" Tubing set at 3312'
(106 joints, EUE)

Pictured Cliffs Perforations:
3314' - 3362'

5-1/2" 15.5#, J-55 Casing set @ 3400'
Cement with 150 sxs (211 cf)

TD 3400'
PBD 3378'

CONDITIONS OF APPROVAL FOR PERMANENT ABANDONMENT

Operator ConocoPhillips Co. Well Name Jicarilla BR E #4

1. Plugging operations authorized are subject to the "General Requirements for Permanent Abandonment of Wells on Federal Leases."
2. For wells on Federal leases, Al Yepa with the Cuba Field Office is to be notified at least 24 hours (48 hours if possible) before the plugging operations commence. His phone number is (505) 289-3748. Office hours are 7:45 a.m. to 4:30 p.m.

For wells on Jicarilla leases notify Bryce Hammond with the Jicarilla Apache Tribe at least 24 hours (48 hours if possible) before the plugging operations commence. His phone number is (505) 759-3485 ext. 31.

3. Blowout prevention equipment is required.
4. The following modifications to your plugging program are to be made :

None

BLM CONDITIONS OF APPROVAL

The following surface rehabilitation Conditions of Approval must be complied with as applicable, before this well can be approved for final abandonment (see 43 CFR 3162.3-4). Surface rehabilitation work shall be completed within one year of the actual plugging date. Notification for completion of this work should be submitted with a Sundry Notice. Questions? Call Lucas Vargo (505) at 289-3748 or (505) 761-8700.

1. All fences, production equipment, purchaser's equipment, concrete slabs, deadman (anchors), flowlines, risers, debris and trash must be removed from the location. Non-retrieved flowlines and pipelines will be abandoned in accordance with State Rule 714. Information supporting the non-retrieval will be included in the subsequent report or final abandonment Sundry Notice.

2. Production pits will be closed according to the Unlined Surface Impoundment Closure Guidelines, as approved in the Environmental Assessment of December 1993. Any oil stained soils can be remediated on-site according to these guidelines or disposed of in a an approved facility.

3. The well pad will be shaped to the natural terrain and left as rough as possible. All compacted areas and areas devoid of vegetation shall be ripped/disked to a minimum of 12" in depth before reseeding.

4. Access roads will be shaped to conform to the natural terrain and left as rough as possible to deter vehicle travel. Access will be ripped to a minimum of 12" in depth, water barred and reseeded. All erosion problems created by the development must be corrected prior to acceptance of release. Water bars should be spaced as shown below along the fall line of the slope:

% Slope	Spacing Interval
Less than 20%	200'
2 to 5 %	150'
6 to 9 %	100'
10 to 15 %	50'
Greater than 15%	30'

5. All disturbed areas will be seeded with the prescribed certified seed mix (reseeding may be required). Seed mix must be certified weed free to avoid the introduction of noxious weeds. Refer to the original APD for seed mix.

6. Notify Surface Managing Agency seven (7) days prior to seeding so that they may be present to witness.

7. The period of liability under the bond of record will not be terminated until the well is inspected and the surface rehabilitation approved.

Other Surface Managing Agencies (SMA's) may vary slightly in their restoration requirements. It is your responsibility, as the operator, to obtain surface restoration requirements from other SMA's. We need to be provided with a copy of these requirements. Any problems concerning stipulations received from other SMA's should be brought to us. On private land, a letter from the fee owner stating that the surface restoration is satisfactory will be provided to the office. Questions? Call Lucas Vargo at (505) 289-3748 or (505) 761-8700.