

AXI Apache N #11A

Current

Blanco Mesaverde

(B), Section 12, T-25-N, R-4-W, Rio Arriba County, NM

Lat: N 36° 25' 4.98" / Long: W 107° 11' 58.56"

Today's Date: 11/9/01
Spud: 06/2/80
Comp: 8/02/80
Elevation: 7263' GL
7274' KB

13-3/4" Hole

9-5/8" 36# Casing @ 276', 220 sxs cement
(Circulated cement to surface)

Nacimiento @ 1625'

*pink -
12/17/07*

Ojo Alamo @ 3380'

Kirtland @ 3495'

Fruitland @ 3575'

Pictured Cliffs @ 3775'

2-3/8" Tubing set at 6041'
(181 joints, EUE)

TOC (7") @ 3750' (T.S.)

Top of 4-1/2" liner @ 4135'

8-3/4" Hole to 4300'

7" 23# Casing @ 4300'
Cemented with 432 sxs

Sqzd @ 4800' w/200 sxs cmt
TOC @ liner top @ 4135' (Calc. 75%)

Mesaverde @ 5433'

Mesaverde Perforations:
5434' - 5590' & 5984'-6114'

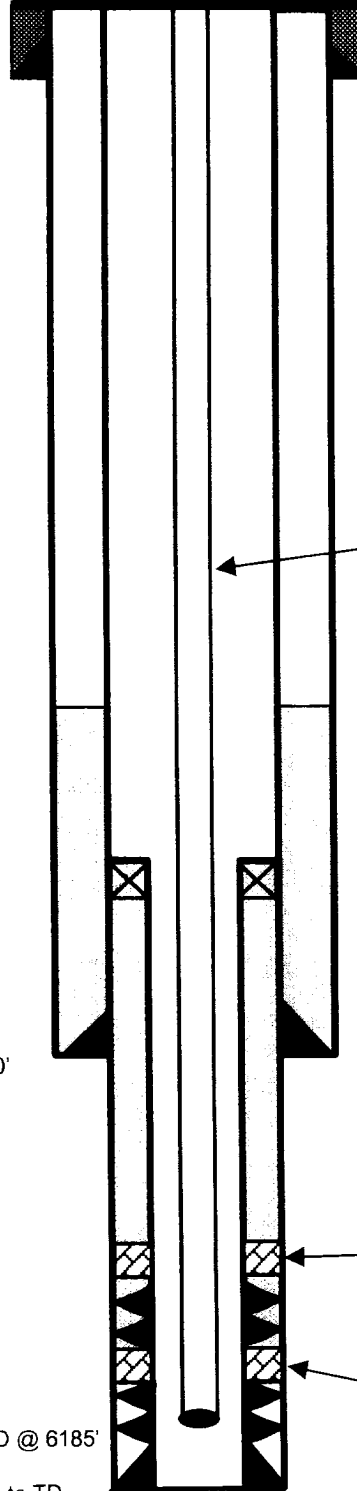
Sq perms @ 5700' w/150 sxs cmt
TOC @ Sqzd @ 4800' (Calc. 75%)

PBTD @ 6185'

4-1/2" 10.5# Casing @ 6197'
Lost Circ before starting Cement,
Perfed & Sqz'd @ 5700' & 4800'

6-1/4" Hole to TD

TD 6197'



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Proposed P & A

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PBTD @ 6185'

6-1/4" Hole to TD

TD 6197'

9-5/8" 36# Casing @ 276', 220 sxs cement
 (Circulated cement to surface)

Perf @ 326'

Plug #5: 326' - Surface
 Cmt with 120 sxs

Set 7" Cmt. Ret. @ 1625'

Perf @ 1675'

Plug #4: 1675'-1575'
 Cmt with 53 sxs,
 25 sxs outside
 and 28 sxs inside.

Plug #3: 3625' - 3330'
 Cmt with 140 sxs,
 75 sxs outside
 and 65 sxs inside.

Set 7" Cmt. Ret. @ 3575'

Perf @ 3625'

TOC (7") @ 3750' (T.S.)

Plug #2: 4350' - 3725'
 Cmt with 102 sxs

Top of 4-1/2" liner @ 4135'

7" 23# Casing @ 4300'
 Cemented with 432 sxs

Plug #1: 5384' - 5284'
 Cmt with 12 sxs

Set 4-1/2" CIBP @ 5384'

Mesaverde Perforations:
 5434' - 5590' & 5984' - 6114'

4-1/2" 10.5# Casing @ 6197'
 Lost Circ before starting Cmt.
 Perfed & Sqzd @ 5700' & 4800'

PLUG AND ABANDONMENT PROCEDURE

11/9/01

AXI Apache N #11A

Blanco Mesaverde, API 30-039-22290
1120' FNL & 1520' FEL, (B) Section 12, T25N, R4W
Rio Arriba County, New Mexico

Note: All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures.

All cement will be ASTM Type II, mixed at 15.6 ppg with a 1.18 cf/sx yield.

1. Install and test location rig anchors. Prepare blow pit. Comply with all NMOCD, BLM, and Conoco 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 with 181 joints 2-3/8" tubing and visually inspect. If necessary, LD tubing and PU tubing workstring. Round-trip 4-1/2" gauge ring or casing scraper to 5384' or as deep as possible.
3. **Plug #1 (Mesaverde perms, 5384' – 5284')**: Set 4-1/2" wireline CIBP or CR at 5384'. TIH with open-ended tubing and tag. Load casing with water and circulate well clean. Pressure test casing to 500#. If casing does not test, spot or tag subsequent plugs as appropriate. Mix 12 sxs cement and spot a balanced plug inside casing above the CIBP to isolate the Mesaverde. PUH to 4350'.
4. **Plug #2 (7" Casing Shoe liner top and Pictured Cliffs top, 4350'-3725')**: Mix 102 sxs cement and spot balanced plug inside the 4-1/2" and 7" casings to cover the liner top and Pictured Cliffs top. PUH to 3640' and reverse circulate well clean. TOH with tubing.
5. **Plug #3 (Fruitland, Kirtland, and Ojo Alamo tops, 3625' – 3330')**: Round-trip 7" gauge ring or casing scraper to 3575' or as deep as possible. Perforate 3 HSC squeeze holes at 3625'. If casing pressure tested, then establish rate into squeeze holes. Set 7" cement retainer at 3575'. Mix and pump 140 sxs cement, squeeze 75 sxs outside 7" casing and leave 65 sx inside to cover through the Ojo Alamo top. TOH with tubing.
6. **Plug #4 (Nacimiento top, 1675' – 1575')**: Perforate 3 HSC squeeze holes at 1675'. If casing pressure tested, then establish rate into squeeze holes. Set 7" cement retainer at 1625'. Mix and pump 53 sxs cement, squeeze 25 sxs outside 7" casing and leave 28 sx inside to cover the Nacimiento top. TOH and LD tubing.
7. **Plug #5 (9-5/8" Surface casing, 326' - Surface)**: Perforate 3 HSC squeeze holes at 326'. Establish circulation out bradenhead with water. Mix and pump approximately 120 sxs cement down the 7" casing to circulate cement to surface. Shut well in and WOC.
8. ND BOP and cut off casing below surface casing flange. Install P&A marker with cement to comply with regulations. RD, move off location, cut off anchors and restore location.

IN REPLY REFER TO
3162.3-1 (017)

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT
Albuquerque Field Office
435 Montano N.E.
Albuquerque, New Mexico 87107

Company Conoco Inc.

Well No. Axi Apache N 11A

Location 1120' FNL & 1580' FEL Sec. 12, T25N, R4W, NMPM

Lease No. Jicarilla Contract 121

Government Contacts:

Bureau of Land Management, Albuquerque Field Office Office 505.761.8700

Manager: Steve Anderson, Assistant Field Manager 505.761.8982

Petroleum Engineer: Brian W. Davis 505.761.8756, Home 505.323-8698,
Pager 505.969.0146, Cell 505.249.7922.

Petroleum Engineering Technician: **Bryce Hammon, Office 505.759.1823, x-31, Cell 505.320.9741**

BLM Geology / Environmental Contact: Patricia M. Hester 505.761.8786

GENERAL REQUIREMENTS
FOR
OIL AND GAS OPERATIONS FEDERAL & INDIAN LEASES

1. Plugging operations authorized are subject to the "General Requirements for Permanent Abandonment of Wells on Federal and Indian Leases."
2. For wells on Indian leases, Bryce Hammond with the Jicarilla Nation Tribal Oil and Gas Office is to be notified at least 24 hours (48 hours if possible) before the plugging operations commence. His phone number is (505) 759-1823, x-31 office, (505) 320-9741 cell. Office hours are 7:45 a.m. to 4:30 p.m.
3. Blowout prevention equipment is required.
4. The sundry is approved with the following change:

n/a

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 Pat Hester at (505) 761-8786.

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 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 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 Pat Hester at (505) 761-8786.