

Apache #8

Proposed P&A

Basin Dakota

NE, Section 20, T-26-N, R-3-W, Rio Arriba County, NM

Today's Date: 3/12/99
Spud: 11/26/69
Comp: 2/16/70
Elevation: 7255' GL

12-1/4" Hole

Nacimiento @ 1390'

Ojo Alamo @ 3440'

Kirtland @ 3630'

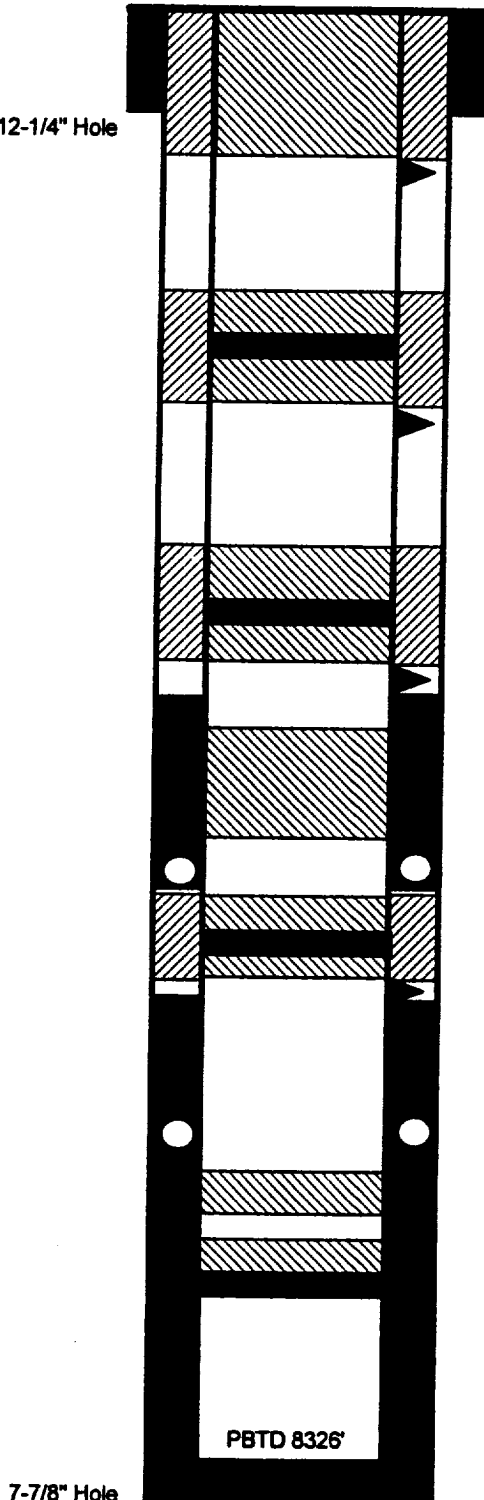
Fruitland @ 3730'

Pictured Cliffs @ 3965'

Mesaverde @ 5605'

Gallup @ 7045'

Dakota @ 8120'



7-7/8" Hole

TD 8355'

8-5/8" 24# K-55 Csg set @ 207'
175 sxs cement (Circulated to Surface)

Perforate @ 257'

Plug #7 257' - Surface,
Cmt with 100 sxs Class B

Cmt Retainer @ 1390'

Plug #6 1440' - 1340'
Cmt with 51 sxs Class B,
39 sxs outside casing
and 12 sxs inside.

Perforate @ 1440'

Plug #5 3670' - 3390'
Cmt with 133 sxs Class B,
108 sxs outside casing
and 25 sxs inside.

Cmt Retainer @ 3630'

Perforate @ 3670'

Plug #4 4015' - 3680'
Cmt with 25 sxs Class B

Top of Cmt Unknown
Opened stage tool, pump 100 bbls mud,
no cir; wait 30 mins; pump 200 bbls
mud, no cir; pumped cement, no cir.

DV tool @ 4059'
Cmt w/150 sxs Class "C" 3% Lodense

Cmt Retainer @ 5605'

Perforate @ 5655'

Plug #3 5655' - 5555'
Cmt with 51 sxs Class B,
39 sxs outside casing
and 12 sxs inside.

Top of Cmt Unknown
Lost circulation during last
5 bbls of displacement.

DV Tool @ 6277'
Cmt w/150 sxs Class C 3% Lodense

Top of Cmt @ DV Tool
(Calc, 75%)

Plug #2 7095' - 6996'
Cmt with 12 sxs Class B

Set CIBP @ 8100'

Plug #1 8100' - 8000'
Cmt with 12 sxs Class B

Dakota Perforations:
8130' - 8312'

4-1/2" 11.6&10.5#, J&K-55 Casing Set @ 8354'
Cement with 375 sxs Class "C" (495 cf)

Apache #8

Current

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NE, Section 20, T-26-N, R-3-W, Rio Arriba County, NM

Today's Date: 3/12/99
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Comp: 2/16/70
Elevation: 7255' GL

12-1/4" Hole

8-5/8" 24# K-55 Csg set @ 207'
175 sxs cement (Circulated to Surface)

Well History

Nov '94: Conoco takes well from Naussa, no tubing in well.

Mar '97: Tubing run in well; unsuccessful attempts to obtain production

Nacimiento @ 1390'

2-3/8" Tubing Set at @ 8224'
(238 joints, 4.7#, EUE)

Ojo Alamo @ 3440'

Kirtland @ 3630'

Fruitland @ 3730'

Pictured Cliffs @ 3965'

Top of Cmt Unknown
Opened stage tool, pump 100 bbls mud, no cir; wait 30 mins; pump 200 bbls mud, no cir; pumped cement, no cir.

DV tool @ 4059'
Cmt w/150 sxs Class "C" 3% Lodense

Mesaverde @ 5605'

Top of Cmt Unknown
Lost circulation during last 5 bbls of displacement.

DV Tool @ 6277'
Cmt w/150 sxs Class C 3% Lodense

Top of Cmt @ DV Tool
(Calc, 75%)

Gallup @ 7045'

Dakota @ 8120'

Dakota Perforations:
8130' - 8312'

PBTD 8326'

7-7/8" Hole

TD 8355'

4-1/2" 11.6&10.5# J&K-55 Casing Set @ 8354'
Cement with 375 sxs Class "C" (495 cf)

CONDITIONS OF APPROVAL FOR PERMANENT ABANDONMENT

Operator Conoco Inc.

Well Name Jic 98 Apache #8

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 Erwin Elote with the Jicarilla Apache Tribe at least 24 hours (48 hours if possible) before the plugging operations commence. His phone number is (505) 759-3242.

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

Estimated top of the Nacimiento Formation is 1590'. Move Plug #6 to cover from 1640' to 1540'.