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PLUG AND ABANDONMENT PROCEDURE

11/30/00

AXI Apache "J" #15

South Blanco Pictured Cliffs 1450' FSL and 1190' FWL, Section. 8, T25N, R5W Rio Arriba County, New Mexico Long 107^23'16.08" W / Lat 36^ 24' 40.176" N API #30-039-20178

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.

- 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 JSA 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 and tally 117 joints 1-1/2" IJ tubing (3791'). Round-trip 4-1/2" gauge ring or casing scraper to 3640'.
- 3. Plug #1 (Chacra interval, 3640' 3540'): Set 4-1/2" wireline CIBP or CR at 3640'. TIH with open ended tubing and tag CIBP. Load casing with water and circulate well clean. Pressure test casing to 500#. If casing does not test, then spot or tag subsequent plug as appropriate. Mix 11 sxs cement and spot a balanced plug inside casing above the CIBP to isolate the Chacra perforations. PUH to 2870'.
- 4. Plug #2 (Pictured Cliffs and Fruitland tops, 2870' 2640'): Mix 21 sxs Class B cement and spot balanced plug inside casing to cover PC and Fruitland tops. TOH with tubing.
- 5. Plug #3 (Kirtland and Ojo Alamo tops, 2465' 2185'): Perforate 3 HSC squeeze holes at 2465'. Establish rate into squeeze holes if casing tested. Set 4-1/2" cement retainer at 2415'. Establish rate into squeeze holes. Mix 91 sxs cement, squeeze 66 sxs outside and leave 25 sxs inside casing to cover the Kirtland and Ojo Alamo tops. TOH with tubing.
- 6. Plug #4 (Nacimiento top, 840' 740'): Perforate 3 HSC squeeze holes at 840'. Establish rate into squeeze holes if casing tested. Set 4-1/2" cement retainer at 790'. Establish rate into squeeze holes. Mix 35 sxs cement, squeeze 24 sxs cement outside 4-1/2" casing and leave 11 sxs cement inside casing to cover the Nacimiento top. TOH and LD tubing.
- 7. Plug #5 (9-5/8" Surface casing, 223' to Surface): Perforate 3 HSC squeeze holes at 258'. Establish circulation out bradenhead valve. Mix and pump approximately 80 sxs cement down 4-1/2" casing and circulate good cement out bradenhead valve. Shut well in and WOC.
- 8. 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.

AXI Apache "J" #15

Current

Otero Chacra

SW, Section 8, T-25-N, R-5-W, Rio Arriba County, NM

Long 107^23'16.08" W / Lat 36^ 24' 40.176 " N API # 30-039-20178

Today's Date: 11/30/00 8-5/8" 24# Csg set @ 208' 12-1/4" hole Spud: 2/6/69 Cmt w/ 120 sxs (Circulated to Surface) Completed: 2/27/69 Elevation: 6684' GL 6695' KB Nacimiento @ 790' 1-1/2" Tubing Set at 3791' (117 jts, IJ, 2.76#) Ojo Alamo @ 2235' \(\sigma Kirtland @ 2415' TOC @ 2556' (Calc,75%) Fruitland @ 2690' Pictured Cliffs @ 2820' Chacra @ 3690' Otero Chacra Perforations: 3690' - 3799' PBTD 3839' 4-1/2" 11.6# Casing set @ 3870' 6-3/4" hole Cemented with 160 sxs (242 cf)

TD 3870'

AXI Apache "J" #15

Proposed P&A

Otero Chacra

SW, Section 8, T-25-N, R-5-W, Rio Arriba County, NM

Long 107^23'16.08" W / Lat 36^ 24' 40.176 " N API # 30-039-20178

Today's Date: 11/30/00

Spud: 2/6/69

Completed: 2/27/69

Elevation: 6684' GL

6695' KB

12-1/4" hole

Nacimiento @ 790'

Ojo Alamo @ 2235'

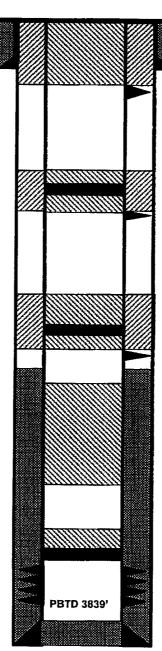
Kirtland @ 2415'

Fruitland @ 2690'

Pictured Cliffs @ 2820'

Chacra @ 3690'

6-3/4" hole



8-5/8" 24# Csg set @ 208' Cmt w/ 120 sxs (Circulated to Surface)

Perforate @ 258'

Plug #5 258' - Surface Cement with 80 sxs

Cmt Retainer @ 790'

Cement with 35 sxs, 24 outside casing and 11 inside.

Plug #4 840' - 740'

Perforate @ 840'

Plug #3 2465'- 2185' Cement with 91 sxs, 66 outside casing and 25 inside,

Cmt Retainer @ 2415'

Perforate @ 2465'

TOC @ 2556' (Calc,75%)

Plug #2 2870' - 2640' Cement with 21 sxs

Plug #1 3640' - 3540' Cement with 11 sxs

Set CIBP @ 3640'

Otero Chacra Perforations: 3690' – 3799'

4-1/2" 11.6# Casing set @ 3870' Cemented with 160 sxs (242 cf)

TD 3870'

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 can 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 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 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.