

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

From complete cementing records as attached, well now Plugged and abandoned to meet necessary requirements to PBTD 5420'.

As cement retainer is set at 5303' and Perforations at 5320' cemented with 90 sacks Neat Cement, new PBTD should be 5303'.

It is now proposed to drill out cement, surface to 5303', then Run Bond Log 5303' to surface to determine where cement is present behind 5 1/2" Casing.

Casing will be perforated if necessary to squeeze 5302' to 5202' behind pipe with at least 200% of calculated Volume. A cement plug will be placed in 5 1/2" casing 5303' to 5200'.

9# Gel Based Mud will be placed between 5200' and 4690' (100' below Mesa Verde Top).

If necessary 5 1/2" casing will be perforated at 4690' to cement behind pipe with at least 200% of calculated Volume to cover 4690' to 4490'. A cement plug will be placed in Casing at 4690' to 4490'. 9# Gel Based Mud will be placed in casing at 4490' to 3050'.

If necessary 5 1/2" Casing will be perforated at 3050' to cement behind pipe with at least 200% of Calculated Volume to cover 3050' to 2700'. (at least 100' above Fruitland Coal) A cement plug will be placed in 5 1/2" Casing 3050' to 2700'.

2700' to 2000'. 5 1/2" Casing will be perforated as necessary to place plugs to isolate Alamo Water Sands Top and Bottom 2110' to 2420'.

A cement plug will be placed in 5 1/2" Casing 2700' to 2000'.

9# Gel Based Mud will be placed in Casing 2000' to 405'.

5 1/2" Casing will be perforated at 405' and cement circulated 405' to surface to tie-in 5 1/2" Casing to 10 3/4".

5 1/2" and 10 3/4" Casing will be cut off 6' below surface, a 1/4" steel Plate will be welded to 5 1/2" Casing, then a 1/4" Steel Plate will be welded to 10 3/4" Surface Casing.

A 4 1/2" X 10' monument will be welded to top of surface casing then hole will be filled with gravel.

Monument will be permanently inscribed with following information:

Well No. 587

Lease No. NM 03551

NW 1/4, SE 1/4 Section 4, 26 North, 6 West
Rio Arriba County, New Mexico

Plugging operations to begin as soon as approval of program received.

Well No. 587
Section 4, 26 North, 6 West
Rio Arriba County, New Mexico

Complete cementing record:

- 5-31-55 Well Spudded.
10 3/4" 32.40# H-40 Casing cemented at 355' with 175 sacks.
Cement circulated to surface.
- Drilled 8 3/4" hole to TD 6687'. Ran and Cemented 5 1/2" OD 15.5# J-55 Smls Casing at 6686' with 500 Sacks. Approx 6-20-55.
(Note: Bond Log Run 4-25-78 shows cement top at 5338'.)
5 1/2" casing perforated 6652' to 6656' with 6 jet shots per foot.
- This well drilled and used as water injection well for South Blanco Tocito Water Flood Project. Approx 6-30-55 to 5-9-66.
- Temporarily shut down 5-9-66 to 11-9-77.
- 11-9-77 Approval received to Plug Back and Recomplete in Mesa Verde Zone.
- 9-11-78 Approval to postpone operation until 1979 program.
- 7-30-79 Plugged Back 6687' to 6460' with 35 sacks Neat Cement.
Spotted 9.2# Gel Based Mud 6460' to 5716'.
Spotted Cement Plug inside 5 1/2" Casing 5715' up to 5420'.
- 7-31-79 Perforated 5 1/2" Casing 5320' and 4612' with 2 holes at each point.
Then set cement retainer at 5303'.
- 8-2-79 Cemented 5 1/2" Casing under retainer at 5303' thru perforations at 5320' with 90 sacks Neat Cement.
Pulled Tubing from retainer to surface then done conventional cement job down casing thru perforations at 4612' with 260 sacks 65-35 Poz containing 12% Gel followed by 50 sacks Neat Cement.
- 8-4-79 Cleaned out to retainer at 5303'.
- 8-5-79 Tested 5 1/2" Casing and found two (2) leaks. No.1 at 2187' and No.2 at 4750'. Squeezed hole at 4750' with 100 sacks Latex Cement.
- 8-6-79 Squeezed hole at 2187' with 50 sacks Latex Cement.
- 8-10-79 Cleaned out to retainer at 5303'. Tests showed leaks at 2650' and 2187'.
- 8-11-79 Started squeeze at 2650' and had circulation above packer. Tested Casing and found bad pipe at 2187' to 2650'.
Spotted cement plug 2650' to 2000' then filled hole 2000' to 200' with 9# Gel Based Mud.
Spotted Cement 200' to surface.