

Sundry Notices and Reports on Wells

Date _____


PLUG AND ABANDONMENT PROCEDURE 1/28/02

**Hamilton Com B #4
South Blanco Pictured Cliffs
1700' FSL & 1650' FWL,
Unit K, Section 16, T26N, R7W
Latitude 36°29.02' Longitude: 107°35.02'
AIN: 4883001**

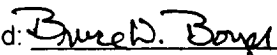
Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be ASTM Type II, mixed at 15.6 ppg with a 1.18 cf/sx yield.

1. Install and/or test rig anchors. Prepare blow pit. Comply with all NMOCD, BLM and Burlington safety rules and regulations. ND wellhead and NU BOP, test BOP.
2. Prepare a tubing workstring. Round-trip 5-1/2" gauge ring or casing scraper to 2685'.
3. **Plug #1 (Pictured Cliffs open hole interval and Fruitland, Kirtland and Ojo Alamo tops, 2685' – 1933')**: TIH and set a 5-1/2" cement retainer at 2685'. Load tubing with water and pressure test to 1000#. Load casing with water and circulate well clean. Casing has multiple leaks, establish rate. Mix 110 sxs cement (20 sxs excess due to casing leaks) and spot a balanced plug above the retainer inside the casing to isolate the Pictured Cliffs open hole and to cover tops through the Ojo Alamo. PUH and WOC. TIH and tag cement. TOH with tubing.
4. **Plug #2 (Nacimiento top, 700' – 600')**: Perforate 3 HSC squeeze holes at 700'. Set 5-1/2" cement retainer at 650'. Establish rate into squeeze holes. Mix and pump 60 sxs cement, squeeze 43 sxs outside and leave 17 sxs inside casing to cover Nacimiento top. TOH and LD tubing.
5. **Plug #3 (9-5/8" Surface casing, 183' - Surface)**: Perforate 2 HSC squeeze holes at 183'. Establish circulation out bradenhead with water. Mix and pump approximately 85 sxs cement down 5-1/2" casing to circulate cement out the bradenhead. Shut in well 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.

Recommended:

 02/04/02
Operations Engineer

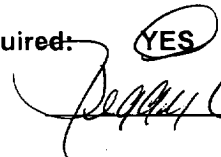
Matt Roberts Office - (599-4098)
Cell - (320-2739)

Approved:  2-4-02
Drilling Manager

Sundry Required:

☒ YES ☐ NO

Approved:

 2-4-02

Lease Operator: Dwayne Horton
Specialist: Jim Work
Foreman: Darren Randall

Cell: 320- 2550 Pager: 326-8779
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Hamilton Com B #4

Proposed P&A

AIN #4883001

South Blanco Pictured Cliffs

SW, Section 16, T-26-N, R-7-W, Rio Arriba County, NM

Long: 107° 35.02' / Lat: 36° 29.02'

Today's Date: 01/28/02

Spud: 10/11/53

Completed: 10/27/53

Elevation: 6674'

13-3/4" hole

Nacimiento @ 650'

Ojo Alamo @ 1983'

Kirtland @ 2200'

Fruitland @ 2550'

Pictured Cliffs @ 2739'

8-3/4" hole

6-1/4" hole

9-5/8" 25.4# J-55 Casing set @ 133'
Cmt w/100 sxs (Circulated to Surface)

Perforate @ 183'

Plug #3: 183' – Surface
Cement with 85 sxs

Cmt Retainer @ 650'

Perforate @ 700'

Plug #2: 700' – 600'
Cement with 60 sxs,
43 outside casing
and 17 inside.

TOC @ 1960' (T.S.)

Plug #1: 2685' – 1933'
Cement with 110 sxs
(excess due to casing
leaks)

Set CR at 2685'

5-1/2" 15.5#, J-55 Casing set @ 2735'
Cement with 150 sxs (188 cf)

Pictured Cliffs Open Hole:
2740' – 2797'

Fish: Left approx. 14 joints 1"
tubing pushed to 2734'

TD 2797'