

PLUG AND ABANDONMENT PROCEDURE

July 23, 2013

Jicarilla 459-20 SJ #12

Cabresto Canyon Tertiary

849' FSL, 1888' FEL, Section 20, T30N, R3W, Rio Arriba County, NM

API 30-039-25941 / Long: _____ / Lat: _____

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 Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield.

1. Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.
2. Rods: Yes , No _____, Unknown_____.
Tubing: Yes , No _____, Unknown_____, Size 2-3/8" , Length 1800'.
Packer: Yes _____, No , Unknown_____, Type _____.
If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.
3. **Plug #1 (San Jose perforations, 1009' – 959')**: Round trip 5.5" gauge ring or casing scraper to 1009', or as deep as possible. TIH and set 5.5" CR or CIBP at 1009'. Pressure test tubing to 1000#. Pressure test casing to 800#. If casing does not test, then spot or tag subsequent plugs as appropriate. Mix 17 sxs Class B cement and spot a balanced plug inside the casing above the CR to isolate the San Jose interval. PUH.
4. **Plug #2 (8-5/8" casing shoe, 601' – 501')**: Mix 17 sxs Class B cement and spot a balanced plug inside the casing to isolate the 8-5/8" casing shoe. PUH.
5. **Plug #3 (Surface, 100' - Surface)**: Attempt to pressure test the bradenhead annulus to 300 PSI; note the volume to load. If the BH annulus holds pressure, then establish circulation out casing valve with water. Mix approximately 17 sxs cement and spot a balanced plug from 100' to surface, circulate good cement out casing valve. TOH and LD tubing. Shut well in and WOC. If the BH annulus does not test, then perforate at the appropriate depth and attempt to circulate cement to surface filling the casing from 100' and the annulus from the squeeze holes to surface. Shut in well and WOC.
6. ND BOP and cut off wellhead below surface casing flange. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location per BLM stipulations.

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Current

Cabresto Canyon, Tertiary

849' FSL & 1888' FEL, Section 20, T-30-N, R-3-W, Rio Arriba County, NM

Long: _____ / Lat: _____ / API 30-039-25941

Today's Date: 7/23/13
Spud: 8/29/98
Comp: 9/4/98
Elevation: 7250' GI
7262' KB

12-1/4" Hole

TOC @ Surface per Sundry
and Completion report

8-5/8", 24# #, K-55 Casing set @ 551'
Cement with 300 sxs, circulated to surface

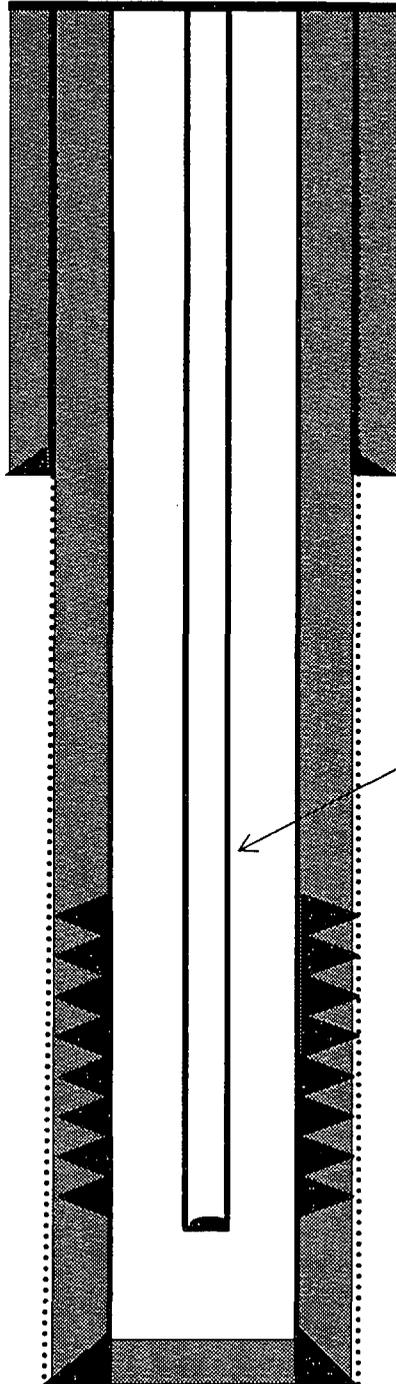
2-3/8" tubing @ 1800' with rods and pump

San Jose Perforations:
1059' - 1790'

7-7/8" Hole

5.5" 15.5# K-55 Casing @ 1944'
Cement with 360 sxs
Circulated 63 sxs to surface

1950' TD
1860' PBD



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Proposed P&A

Cabresto Canyon, Tertiary

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Long: _____ / Lat: _____ / API 30-039-25941

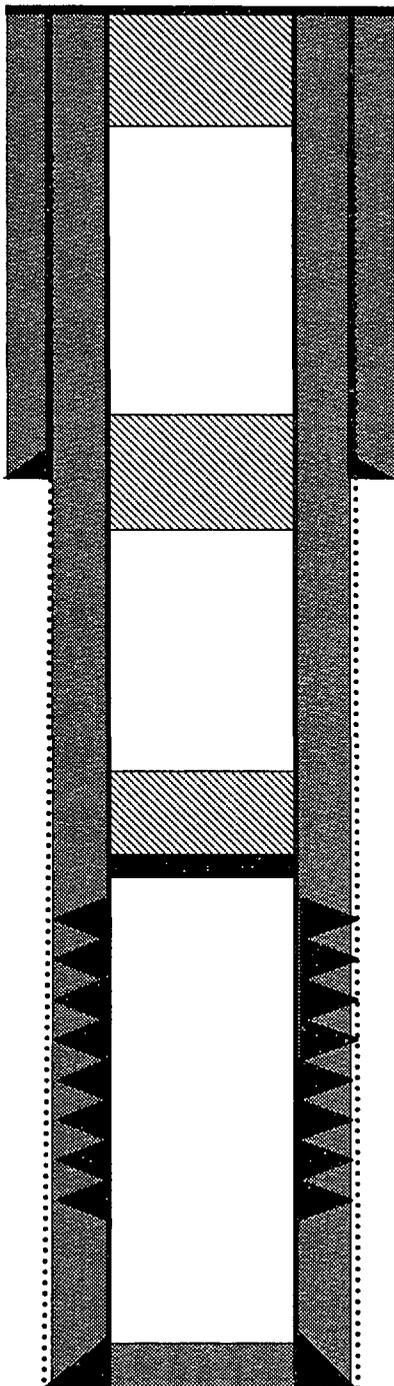
Today's Date: 7/23/13

Spud: 8/29/98

Comp: 9/4/98

Elevation: 7250' GI
7262' KB

12-1/4" Hole



TOC @ Surface per Sundry and Completion report

Plug #3: 100' - 0'
Class B cement, 17 sxs

8-5/8", 24# #, K-55 Casing set @ 551'
Cement with 300 sxs, circulated to surface

Plug #2: 601' - 501'
Class B cement, 17 sxs

Plug #1: 1009' - 959'
Class B cement, 17 sxs

Set CR or CIBP @ 1009'

San Jose Perforations:
1059' - 1790'

7-7/8" Hole

5.5" 15.5# K-55 Casing @ 1944'
Cement with 360 sxs
Circulated 63 sxs to surface

1950' TD
1860' PBD

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
6251 COLLEGE BLVD.
FARMINGTON, NEW MEXICO 87402

Attachment to notice of
Intention to Abandon:

Re: Permanent Abandonment
Well: 12 Jicarilla 459-20

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.
3. The following modifications to your plugging program are to be made:
 - a) You are required to have H2S monitoring equipment and personnel on location during plugging operations.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.