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VALENTINE VL ST. 1
10-15S-33E
PLUG AND ABANDONMENT PROCEDURE
12/3/93

GENERAL: PROCEDURE DISCUSSED WITH MR. JERRY SEXTON, NMOCD HOBBS, ON DECEMBER 3, 1993. GIVE NMOCD 24 HRS. ADVANCE NOTICE OF PLUGGING (393-6161).

NOTE: This procedure assumes that 5-1/2" casing is cut off below 8-5/8" casing shoe. If freepoint is above 8-5/8" shoe, discuss plugging plan with NMOCD.

PROCEDURE:

1. MIRU WSU. Kill well and NU BOP. Unseat packer at 4316', catch RBP at 6533' and TOOH with tools.
2. RU lubricator. Set CIBP + 35' Class "H" cement at 9150'. Four sacks of cement will occupy approx. 35' inside the casing mixed at 15.6 ppg, 1.18 cfps, 5.2 gwps. RIH open ended and circulate casing full of 9 ppg BW containing 25 ppb salt gel (215 bbls. casing volume).
3. Pull up to 7850' and spot a 25 sk. Class "C" neat cement plug from 7850-7597'. Pump 2 bbls. FW ahead of cement and 2 bbls. FW followed by 41 bbls. mud behind cement to spot plug. Add CaCl₂ as necessary to accelerate setting time.
4. Pull up to 5200' and spot a 25 sk. Class "C" neat cement plug from 5200-4947'. Pump 2 bbls. FW ahead of cement and 2 bbls. FW followed by 27 bbls. mud behind cement to spot plug. Add CaCl₂ as necessary to accelerate setting time. TOOH.
5. With well loaded with fluid and dead, ND wellhead and weld lift nipple onto 5-1/2" casing. Pull tension onto casing. RU wireline company and shoot casing off at 4240' with chemical cutter. RU casing handling equipment and laydown machine and TOOH and laydown casing.
6. Set cement retainer at 4140', establish injection rate down tubing and pump 200 sx. Class "C" with 2% CaCl₂ below retainer. If well still on vacuum at end of cement, wait a couple of hours and resqueeze. Sting out of retainer, spot 15 sx. on top of retainer, pull up 100' and reverse circulate tubing clean.
 - a) Squeeze cementing used on this step because San Andres will flow water to surface if not adequately sealed off.
7. Pull up to 1600' and spot a 35 sk. Class "C" neat cement plug from 1600-1465'. Pump 2 bbls. FW ahead of cement and 2 bbls. FW followed by 7 bbls. mud behind cement to spot plug. Add CaCl₂ as necessary to accelerate setting time.
8. Pull up to 40' and spot 10 sx Class "C" neat cement plug to surface.