

## WELL ABANDONMENT PROCEDURE

WELL: Burton Flat "C" Federal No. 3

WELL: 10-05-87

OBJECTIVE: To plug and abandon the well.

BACKGROUND: This well was TA'd in 4/85 after an unsuccessful completion attempt in the Delaware. The wellbore was left with a CIBP and cement above the topmost perforations, and 3% KCl fluid in the hole.

Formation psi: 1500 PSI  
W.O. fluid: 9 ppg salt gel mud  
Max anticipated SITP: <1000 psi  
BOP class: III  
BOP variances apply: yes

Prod. csg.: 5-1/2"/17#/K-55  
Minimum drift ID: 4.767"  
Max burst (w/1.1 SF): 4835 psi  
H<sub>2</sub>S: 10500 ppm  
BOP service: sour  
High risk H<sub>2</sub>S equip req: no

### PROCEDURE:

NOTE: Contact the Carlsbad BLM office, (505) 887-6544, 24 hours prior to actual plug setting. Contact Shannon Shaw.

1. MIRU WSU. Install a class III BOP and test to company specifications for a class III BOP. TIH and tag cement plug on top of CIBP (TOC should be 3085'). Displace hole with 9.0 ppg salt gel mud. POH with 2-7/8" tubing to 2620'.
2. Spot a balanced 25 sx cement plug from 2620' up to 2365'. Use class "C" cement containing 2% CaCl<sub>2</sub> mixed at 14.8 ppg with a yield of 1.32 cfps using 6.3 gps of water. Precede cement with 5 bbls of fresh water and displace cement plug with 2 bbls fresh water followed by 12 bbls 9.0 ppg salt gel mud. Pull slowly out of plug and then pull uphole to 1000'. Circulate while waiting on cement. WOC 2-4 hours before TIH to tag plug across shoe. Cement top must be at least 2519'. If necessary, re-spot plug.
3. POH to 655'. Spot a second balanced 25 sx cement plug from 655' up to 400'. Use class "C" cement containing 2% CaCl<sub>2</sub> mixed at 14.8 ppg with a yield of 1.32 cfps using 6.3 gps of water. Precede cement with 5 bbls of fresh water and displace cement plug with 2 bbls fresh water followed by 0.5 bbls 9 ppg salt gel mud. Pull slowly out of plug and then pull uphole to 100'.
4. Spot a 10 sx class "C" cement plug containing 2% CaCl<sub>2</sub> from 100' to surface. Wash cement out of 5-1/2" casing 3' from surface.
5. ND BOP. Install lift yoke onto casinghead to keep it from falling when cutting casing. Cut 5-1/2", 8-5/8" and 13-3/8" casings off 3' below the surface. Install a dry hole marker on the well consisting of a 10-foot pipe cemented in the top