

W. D. Grimes (East) No. 3

Repaired 5-1/2" and 7" casing leaks as follows:

1. Set bridge plug in base of 5-1/2" casing.
2. Using retrievable cementer found bottom leak in 5-1/2" casing between 3589' and 3775'. Top leak between 489' and 499'.
3. Ran cement retainer set at 3562'. Had circulation on 5-1/2", 7", and 9-5/8" casing. Displaced water with mud. Pumped approximately 750 sacks cement thru tubing. Circulated estimated 70 sacks out 9-5/8" casing then shut in. Circulated estimated 50 sacks out 7" casing then shut in and performed bradenhead squeeze. Tubing pressure 1250#. casing pressure 1000#. Displaced tubing with 9 barrels water. Pulled tubing. Connected to 13-3/8" bradenhead and cemented with 500 sacks. All casings and bradenheads shut in.
4. Waited on cement.
5. Ran bit to top cement at 683'. Pressured 5-1/2" casing. Would not hold 1000#. Drilled cement in 5-1/2" casing 25'. Pressured up on 5-1/2" casing. Found leak at 653' with circulation out 5-1/2" - 7" annulus.
6. Cemented 5-1/2" - 7" annulus with 70 sacks. Pumped 5-1/2" plug to 480'. Circulated approximately 20 sacks cement out of 5-1/2" - 7" annulus.
7. Waited on cement.
8. Tested 7" casing with 1000 psi for 30 minutes. No drop in pressure.
9. Drilled out cement and retainer.
10. Tested 5-1/2" casing with 1000 psi for 30 minutes. No drop in pressure.
11. Returned well to production.

