

Objective

Plug and abandon the Southwest Rangely 6005.

Background

The Southwest Rangely 6005 is a vertical well spud June 1994 and completed in the Mancos B. This well is considered uneconomical to produce due to age and depleted flow.

Safety

Safety meetings are to be held with all service company personnel prior to each job. Wellsite supervisor must notify contractors as to known hazards of which the contractors may be unaware. Well site supervisor must ensure that all workers are aware of their responsibilities and duties under the EH&S guidelines. All safety meetings will be recorded on the EnCana daily completion reports in Well View. Wellsite supervisor is responsible to ensure that all utility one calls and ground disturbance forms are completed and on location for safety review. All JSA, Ground disturbance forms and Utility one call paper work is to be turned in to Rangely safety department at the completion of the job.

Regulations

All verbal notifications and approval from government regulatory agencies will be recorded on the EnCana daily report. The name of the individual contacted and the subject matter of approval or notification will be recorded.

API Number: 05-103-09671
 Spud Date: June 1994
 GL Elevation: 5856 ft.
 TD: 3220 ft.
 PBSD: 3126ft.

Surface Casing: 9 5/8" OD, 36 lb/ft, K-55, set at 160 ft.

Surface Casing Properties:

ID: 8.921"
 Drift ID: 8.765"
 Collapse: 2,020 psig
 Burst: 3,520 psig
 Joint Yield Strength: 423,000 lb
 Capacity: 0.0773 BBL/ft

Production Casing: 5 1/2" OD, 15.5 lb/ft, k-55, set at 3104' ft.

Production Casing Properties:

ID: 5.012"
 Drift ID: 4.887"
 Collapse: 3,120 psig
 Burst: 4,270 psig
 Joint Yield Strength: 172,000 lb
 Capacity: 0.0238 BBL/ft
 Capacity 5 1/2" casing x 8 5/8" casing: 0.0343 BBL/ft

Tubing: 2 3/8" OD, 4.7 lb/ft, J-55, set at 2910' ft.

Tubing properties:

ID: 1.995"
 Drift ID: 1.901"
 Coupling OD: 3.063"
 Collapse: 8,100 psig
 Burst: 7,700 psig
 Joint Yield Strength: 71,730 lb
 Capacity: 0.00387 BBL/ft

Perfs: From: 2860' to 2914'

Plug & Abandon Procedure

1. Notify the Meeker BLM office and COGCC at least 48 hours before plugging operations commence.
2. Hold a pre-job safety meeting. Discuss all aspects of the procedure with any involved personnel. Identify and address any safety concerns before the job begins.
3. MIRU pulling unit.
4. ND wellhead, NU BOP.
5. Load hole.
6. TOH with tubing. Tuboscope out of the hole. LD any bad joints.
7. MIRU wireline unit.
8. RIH with wireline and set CIBP set at 2810 ft. 50 ft. above top perms @ 2860'
9. Dump bail w/ wireline 5 sacks (1 BBL) cement on CIBP at 2810 ft.
10. RIH with perf gun and shoot perms @ 210', ROH w/ wireline , RD & release
11. TIH w/ tubing to 210'
12. Attempt to establish circulation to surface up 5 1/2" x 9 5/8" casing annulus. Do not pressure over 350 lbs. when trying to establish circulation.
13. Pump a total of 80 sacks (16 BBLs) 15.8 slurry wt. cement to surface.
14. TOH with tubing.
15. Top off annular of the 9.625 X 5.5 and 5.5 casing to surface with cement.
16. Weld information plate to casing stub, take GPS readings of well information plate for regulatory agencies and back fill hole.
17. RDMO workover rig.