

Objective

Plug and abandon the Southwest Rangely 6001.

Background

The Southwest Rangely 6001 is a vertical well spud July 4, 1993 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. Well site 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. Well site 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: 05-103-09590
Spud Date: July 4, 1993
GL Elevation: 6,234 ft
TD: 3550 ft

Surface Casing : 8 5/8" OD, 24 lb/ft, K-55, set at 216 ft.

Surface Casing Properties:

ID (24 lb/ft):	7.921"
Drift ID (24 lb/ft):	7.796"
Collapse (24 lb/ft):	1,370 psig
Burst (24 lb/ft):	2,950 psig
Joint Yield Strength (24 lb/ft):	244,000 lb
Capacity (24 lb/ft):	0.0636 BBL/ft

Production Casing: 5 1/2" OD, 15.5 lb/ft, k-55, set at 3501' 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 3170' 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: 3170' to 3360'

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 3120 ft. 50 ft. above top perms @ 3170'
9. Dump bail w/ wireline 5 sacks (1 BBL) cement on CIBP at 3120 ft.
10. RIH with perf gun and shoot perms @ 266', ROH w/ wireline , RD & release
11. TIH w/ tubing to 266'
12. Attempt to establish circulation to surface up 5 ½" x 8 5/8" casing annulus. Do not pressure over 350 lbs. when trying to establish circulation.
13. Pump a total of 75 sacks (15 BBLS) 15.8 slurry wt. cement to surface.
14. TOH with tubing.
15. Top off annular of the 8.625 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.