

Bison Oil and Gas II, LLC
Buckaroo 5-30
Capital - Offset Well Remediation (P&A)

Lat 40.635289

Long -104.027722

PROCEDURE

1. Survey and locate abandoned well. Mark with stake and record as-drilled GPS coordinates.
2. Excavate to expose top of surface casing. Cut plate off. Weld 8-5/8" slip collar, sufficient 8-5/8" casing to reach ground level, and 8-5/8" slip collar.
3. MIRU workover rig. NU wellhead and 5k BOP. Test BOP.
4. PU and RIH with 3-7/8" tricone bit, 10 2-7/8" drill collars, and 2-3/8", 6.5#, L80, EUE workstring. Drill out 1st surface cement plug and circulate hole clean.
5. Continue drilling or RIH to top of 2nd surface casing plug. Record depth of plug. Pressure test surface casing to 250 psi. If surface casing fails pressure test, contact engineer.
6. After pressure test of surface casing, drill out surface casing plug. If pressure is encountered below surface casing plug, circulate hole with mud or kill fluid until well is dead or blown down.
7. Continue drilling or RIH, cleaning out with drilling mud or water to existing plug at +/-6790'. Record plug depth and TOOH. LD bit and 2-3/8" workstring. If no plug is tagged by 6820', TOOH.
8. PU and RIH with mule shoe and 2-3/8" L80 tubing to 6050'. RU cement crew, pressure test lines to 4,500 psi, shoot holes in casing and pump cement through a retainer (set at 5895'), squeezing cement into the annulus and setting a plug from 5895'-6050', 56 sks 15.8 ppg Class G neat cement.
9. POOH to 1650', shoot holes in casing and pump cement through a retainer (set at 1500'), squeezing cement into the annulus and setting a plug from 1500'-1650', 50 sks 15.8 ppg Class G neat cement.
10. POOH to 550'. RU cement crew and pump 196 sks of 15.8 ppg Class G neat cement and bring cement to surface. POOH with 2-3/8" tubing. RDMO. Top off cement after rig has moved, if necessary.
11. Once surface plug has set, cut casing to 5' below ground level and weld on a plate to seal the well. Inscribe the well's legal location, well name and number, and API number on the plate, as shown below.

1989' FNL, 658' FWL, SWNW Sec 30, T8N, R59W
Buckaroo 5-30
05-123-10685

12. Photograph welded name plate and send to engineer and state inspector before proceeding.
13. Backfill hole and reclaim surface to original conditions.

CEMENT PLUG TABLE							
Plug Number	Plug Status	Formation	Plug Bottom Depth	Plug Top Depth	Cement Class	Yield (ft ³ /sk)	Number of Sacks
1	Existing	D Sand	6800'	6790'	G	1.15	2.5
2	New	Niobrara	6050'	5895'	G	1.15	56
3	New	Pierre	1650'	1500'	G	1.15	50