



Great Western Oil and Gas Company

Mitigation Procedure

Wellname: **Miller #1** Prepared By: Ty Woodworth 2/6/2015
Location: **SESE 11 6N 67W** Office Phone:
API: **05-123-11822** Cell Phone: 970-274-9254
Job Supervisor: Michael Lindsey
Directions:

Surface Casing: 8 5/8" 24# at 321 ft
Production Casing: 4 1/2" 11.6# at 7360 ft
Perfs: 6944 ft - 7261 ft
Tubing: 2 3/8" (J55?) unknown joint count or landing depth
TOC: 6376 ft
Deepest Water Well: 620 ft
Base Upper Pierre: 1200 ft
Top Parkman: 3611 ft
Base Parkman: 3840 ft
Top Niobrara: 6918 ft

Invoice Coding: Please sign/code all invoices to "Extraction Windsor LV Mitigation" 8420.451

Procedure:

- 1 Check pressures/kill well if needed
- 2 MIRUSU, ND wellhead, NU BOPS
- 3 POOH w/ 2 3/8" tbg
- 4 RIH w/ Baker RBP set at 6850 ft
- 5 Roll gas out of hole, test casing and plug to 500 psi
- 6 POOH tbg
- 7 Run CBL from RBP at 6850' to surface, ensuring hole is full
(Results may eliminate the rest of the procedure)
- 4 ND BOPs and unland 4 1/2"
- 5 NU 8 5/8" flange, split flange, BOPs
- 6 PU and RIH w/ 1 1/4" tbg in annulus circulating
- 7 Attempt to get to 3900 ft (base of Parkman Formation at 3840 ft)
- 8 Pump 75 sx plug Class G 1.15 cuft/sx across Parkman from 3600 ft to 3900 ft
- 9 POOH w/ tbg to 1260 ft and pump 275 sx Type III 1.33 cuft/sx plug to surface
- 10 POOH w/ 1 1/4" laying down
- 11 ND BOPs/land csg in slips/install surface csg head
- 12 NU 5K tbg head and BOPs
- 13 WOC for 24 hrs
- 14 Run CBL from 4000 ft to surface to verify isolation
- 15 RIH w/ 2 3/8" and retrieving head pressure testing, release RBP at 6850'
- 16 POOH, LD plug
- 17 RIH w/ AS1 packer w/ x-nipple and land 100 ft above top perf
- 18 Land tbg
- 19 Return to production

Please keep CBL, all wireline and cement tickets for subsequent report requirements