

**Box Elder 2**  
**39.814492 / -104.717875**  
**05-001-05098**

**Box Elder 2 Procedure**

1. Survey and locate plugged wellbore. Set a stake and record as-drilled GPS coordinates.
2. Excavate around wellbore to expose the top of the surface casing.
3. Cut existing cap off wellbore. Weld a slip collar to 9-5/8" casing and necessary length of casing to reach ground level. Weld another 9-5/8" slip collar.
4. MIRU workover rig.
5. Install wellhead and BOP. Test BOP.
6. PU and RIH with 6-1/4" tricone bit, 10 3-1/2" drill collars, and 2-7/8", 6.5#, L80, EUE workstring.
7. Drill out 1st surface cement plug and circulate hole clean.
8. Continue drilling or RIH to top of 2<sup>nd</sup> surface casing plug. Record depth of plug.
9. Pressure test surface casing to 250 psi. If surface casing fails pressure test, contact engineer and hunt holes.
10. 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.
11. POOH and LD 6-1/4" tricone bit.
12. PU and RIH with mule shoe and 2-7/8" L80 tubing down to 8414'.
13. RU cement crew, pressure test lines to 4,500 psi, and spot plug from 8414'-8256' with 15.8 ppg class G neat cement (52 sks) to cover the D Sand.
  - **FROM THIS POINT MOVING FORWARD:** Must wait a sufficient time on all subsequent plugs to confirm static conditions. If at any time after placing this plug there is evidence of pressure or of fluid migration, contact engineer before continuing operations.
14. POOH and spot plug from 7752'-7452' with 15.8 ppg class G neat cement (100 sks) to cover the Niobrara.
  - **IF CIRCULATION IS NOT MAINTAINED WHILE PUMPING PLUG:**
    - i. POOH to surface casing. Wait 4 hours and tag TOC. Record tag depth. If tag is deeper than 7552', contact engineer.
15. POOH and spot plug from 1802'-1490' with 15.8 ppg class G neat cement (101 sks) to cover the Fox Hills.
16. POOH to surface casing. Wait 4 hours and tag TOC. Record tag depth. If tag is deeper than 1540', contact engineer.
17. POOH and spot plug from 988'-838' with 15.8 ppg class G neat cement (50 sks) to cover the Upper Arapahoe.
18. POOH and spot plug from 250' to surface with 15.8 ppg class G neat cement (92 sks).
  - **IF CEMENT DOES NOT RETURN TO SURFACE:**
    - i. POOH. Wait 4 hours and tag TOC. Record tag depth. If tag is deeper than 145', contact engineer.
    - ii. Pump 15.8 ppg Class G neat cement (10 sks) at surface.
19. RDMO. Top off cement after rig has moved, if necessary.
20. After surface plug has set, cut casing to 5' below ground level and weld on a plate to seal the well.
21. Inscribe the well's legal location, well name and number, and API number on the plate as shown:

660' FSL, 660' FEL, SESE Sec 1, T3S, R66W
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22. Photograph welded name plate and send to engineer before proceeding.
23. After confirmation from engineer is received, backfill hole and reclaim surface to original conditions.
24. Cover up the well and remediate the disturbed area.

## Box Elder 2 Cement Plug Table

CEMENT PLUG TABLE										
Plug Number	Plug Status	Target	Location	Plug Bottom Depth	Plug Top Depth	Cement Class	Yield (ft <sup>3</sup> /sk)	Number of Sacks	Must Be Tagged?	Maximum Tag Depth
1	New	D&J Sand	Open Hole	8414'	8256'	G	1.15	52	No	N/A
2	New	Niobrara	Open Hole	7752'	7452'	G	1.15	100	Possibly	7552'
3	New	Fox Hills	Open Hole	1802'	1490'	G	1.15	101	Yes	1540'
4	New	Upper Arap.	Open Hole	988'	838'	G	1.15	50	No	N/A
5	New	Fresh Water	Open Hole	250'	Surface	G	1.15	92	Possibly	145'
<b>TOTAL NEW SKS OF CEMENT REQUIRED:</b>								<b>395</b>		