

BURLINGTON RESOURCES
Mid-Continent Division

Well: Federal 23 #1 **Date:** September 16, 1998

Reason for Work: Plug and abandon wellbore.

Location: 2310' FSL & 2310' FEL, Sec 23, T19S, R32E, Lea County, New Mexico

Total Depth: 11,450' **PBTD:** 10,962' **KB:** 17' above GL.

Casing Record: 13-3/8" 48# H-40 STC @ 358' cmt'd w/375 sx. (Circ)
8-5/8" 24# K-55 STC 0-2735'
32# K-55 STC 2735'-4800' cmt'd w/2960 sx. (Circ) DV Tool at 2815'. ECP at 2817'.
5-1/2" 17# K-55 LTC 0-9950'
17# L-80 LTC 9950-11,450' cmt'd w/ 550 sx. TOC at 7,280'(TS)

Perforations: See attached wellbore schematic.

Tubing Detail: See attached wellbore schematic.

Rod Detail: See attached wellbore schematic

Recommended Procedure

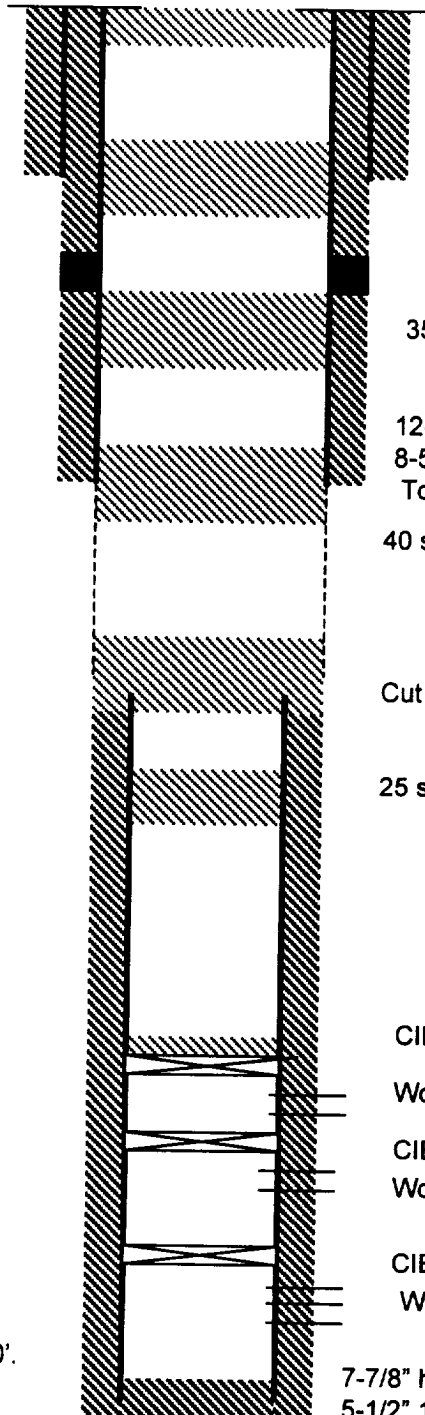
1. Notify BLM office at least 24 hours prior to commencing any plugging operations. Lea County call (505) 393-3612.
2. MIRU workover rig. Bleed off any pressure. TOH and LD rods and pump. ND wellhead. NU BOP.
3. Release TAC and TOH with BHA and tubing. LD BHA.
4. TIH with CIBP on 2-7/8" tubing. Set CIBP at 10,890'. Circulate hole with clean gelled water (at least 9 ppg, 25 sx gel/100 bbl water). Spot 50' class H cement (15 sx) on top of CIBP.
5. TOH to 7650'. Spot 25 sx class C cement plug from 7650' to 7550'. TOH with tubing.
6. Spear 5-1/2" casing and stretch to determine free point (estimated to be at 7200').
7. RU wireline company. RIH with casing cutter and cut casing at free point. TOH and LD casing.
8. TIH with tubing to 7250' (50' below casing stub). Spot 35 sx class C cement plug from 7250' to 7150'. TAG
9. TOH to 4850'. Spot 40 sx class C cement plug from 4850' to 4750'.
10. TOH to 3130'. Spot 35 sx class C cement plug from 3130' to 3030'.
11. TOH 408'. Spot 30 sx class C cement plug from 408' to 308'. ← NEED SALT PLUG 1000' to 1100'
12. TOH to 50'. Spot 15 sx class "C" surface plug in 5-1/2" casing. TOH and LD tubing.
13. RDMO workover rig.
14. Cut off all casing 3' below ground level. Cap with abandonment marker. Restore location as directed.

BURLINGTON RESOURCES

FEDERAL 23 NO. 1
EAST LUSK FIELD
T19S, R32E, Section 23
Lea County, New Mexico

Proposed Completion

KB 3,619'
GL 3,602'



15 sx cement plug from surface to 50'.

17-1/2" hole.

13-3/8" 48# H-40 Casing set at 358'. Cemented with 375 sx.
Top of Cement at surface (Circ).

30 sx cement plug from 308' to 408'.

35 sx cement plug from 3030' to 3130'.

12-1/4" hole.

8-5/8" 24/32# K-55 Casing set at 4,800'. Cemented with 2960 sx.
Top of Cement at surface (Circ). DV tool at 2844'.

40 sx cement plug from 4750' to 4850'.

Cut off casing at 7,200'. Set 35 sx cement plug from 7250' to 7150'. TAG

25 sx cement plug from 7550' to 7650'.

CIBP at 10,890'. Capped with 50' cement (15 sx)

Wolfcamp Perforations 10,902' to 10,956'.

CIBP at 10,962'.

Wolfcamp Perforations 10,966' to 10,990'.

CIBP at 11,008'.

Wolfcamp Perforations 11,014' to 11,324'.

TD 11,450'.

7-7/8" hole.

5-1/2" 17# K-55/L-80 Casing set at 11,450'. Cemented with 550 sx.
Top of Cement at 7,280' (Temperature survey)