

Recommended Procedure:

1. Prepare well for P&A:
 - A. MURU. Bleed well pressure down. Kill well with 9.5 ppg mud if needed.
 - B. ND wellhead and NU BOP.
 2. Spot cement plug on top of CIBP:
 - A. GIH with MS and tag CIBP at 3500'. PU 2'.
 - B. Load and circulate hole with 80 bbls mud.
 - C. Spot 25 sx cement from 3500'-3260' and displace with 18 bbls mud.
 - D. POOH laying down MS to 2850'.
 3. Spot cement plug across top of salt:
 - A. Load hole with mud.
 - B. Spot 25 sacks cement from 1400'-1150' and displace cement with 6.5 bbls mud.
 - C. POOH laying down MS to 860'.
 4. Spot plug across casing leak:
 - A. Close BOP. Pump 35 bbls mud to load hole and establish circulation up 8-5/8" x 5-1/2" annulus.
 - B. Spot 35 sx cement plug in and out 5-1/2" casing from 860'-720' and displace with 4 bbls mud.
 - C. POOH with MS. WOC. GIH and tag top of cement.
 - D. POOH laying down MS.
 5. Circulate cement up surface casing and set surface plug:
 - A. MURU wireline services.
 - B. RIH with a casing gun loaded 4 JSPF (120" phase, .4" EHD, centralized) and CCL.
 - C. Perforate 5-1/2" production casing @ 415'. POOH. 20 bbls mud to load GIH w/1 joint 2-7/8" tubing. Close BOP. Pump 20 bbls mud to load hole and establish circulation up 8-5/8" x 5-1/2" annulus.
 - E. Pump 125 sx of cement (22 sx excess) to fill up 8-5/8" x 5-1/2" annulus and set surface plug in 5-1/2" casing.
- Note: If cement does not circulate to surface, pump 25 sx down 8-5/8" x 5-1/2" annulus.
- F. POOH with tubing.
 - G. RD wireline and cement services.

6. Prepare surface location for abandonment:

- A. ND BOP and cut off all casing strings at the base of the cellar or 3' below the final restored ground level (whichever is deeper). RDMO pulling unit.
- B. Fill the casing strings (if necessary) from the cement plug to surface with cement.
- C. Cover the wellbore with a metal plate at least 1/4" thick, welded in place, or a cement cap extending radially at least 12" beyond the 8-5/8" casing and at least 4" thick.
- D. Erect an abandonment marker according to the following specifications:
 1. Marker must be at least 4" diameter pipe, 10' long with 4' above restored ground level, and embedded in cement.
 2. Marker must be capped and inscribed with the following well information:

Stevens B-14 No. 2
Unit J, Sec. 14, T-23S, R-36E
Lea County, NM
Date

Note: 1/4" metal plate can be welded to marker and then to the casing after the marker is set in cement.

- E. Cut off dead-man anchors below ground level and remove markers. Fill in cellar and workover pit.
- F. Remove all equipment, concrete bases, and pipe not in use.
- G. Clean and restore location to its natural state. Reseed according to BLM requirements.

6. Send a copy of the well service report to the Midland Office so the proper forms can be filed.

Approved:

<u>23/11/2009</u> _____ Engineer	<u>2/20/91</u> _____ Date
<u>2/20/91</u> _____ Supervising Production Engineer	<u>2/20/91</u> _____ Date
<u>2/20/91</u> _____ Division Engineering Manager	<u>2/20/91</u> _____ Date
<u>2/20/91</u> _____ Production Superintendent	<u>2/20/91</u> _____ Date

SFS/tk/STVB14#2.PRO

STEVENS B-14 NO. 2
PLUG AND ABANDON

Summary:

The following procedure is recommended to permanently plug and abandon Stevens B-14 No. 2:

1. Spot 7 sx cement on CIBP at 3500'.
2. Spot 23 sx cement plug across top of salt.
3. Set 15 sx cement plug across casing leak.
4. Perforate at 415' and circulate 125 sx of cement to set surface plug.

Location:

1980' FSL & FEL, Sec. 14, T-23S, R-36E
Lea County, NM

Elevation:

3370' GL (13' AGL)

Completion:

Queen
TD: 3783'
Perfs: 3550'-63', 3585'-98', 3616'-21', 3630'-47' w/4 USPF

Casing/Tubing Specifications:

O.D. (in)	Weight (lbs/ft)	Grade	Depth (ft)	Drift (in)	Collapse (psi)	Burst (psi)	Capacity (bbl/ft)	Capacity (ft ³ /ft)
8-5/8	24	J-55	362	7.972	1370	2950	0.0636	0.3575
5-1/2	14	J-55	3783	4.887	3120	4270	0.0244	0.1370
2-7/8	6.5	N-80	---	2.347	11,160	10,570	0.00579	0.03250

8-5/8" casing set @ 362' with 200 sx cement circulated to surface.

5-1/2" casing set @ 3783'.

Use safety factor of 70% for collapse and burst pressures.

Assume 2-7/8" workstring will be used.

Notes:

1. All cement slurry used in this procedure shall be Class "C" neat mixed @ 14.8 ppq.
2. All mud shall be 9.5 ppq with 25 lbs gel/bbl brine.
3. Notify BLM prior to commencing any work.

Safety:

This procedure includes cementing and perforating. A pre-job safety meeting involving all personnel on location should be held before any work commences. Conoco policies and the service company's safety procedures should be reviewed. Arrange for a pre-determined assembly area in case of an emergency. No unauthorized personnel are allowed on location.

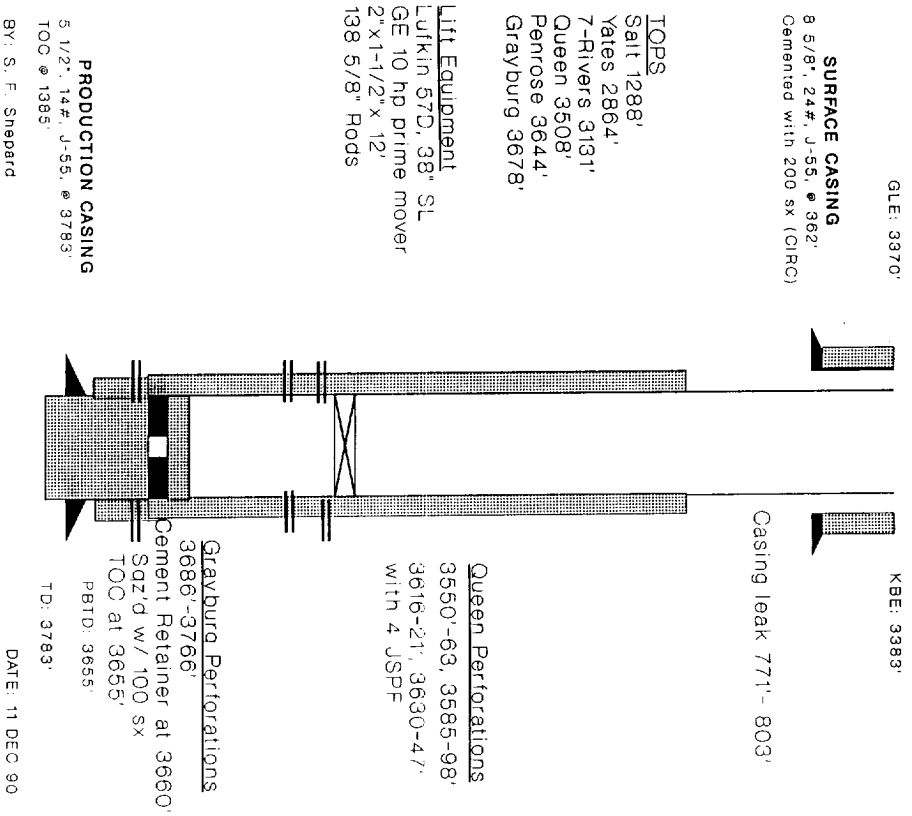
The following checklist is recommended during cementing operations:

1. All pump and storage trucks should rig up outside dead man anchors and guy wires if possible.
2. All connections on the wellhead must have a pressure rating higher than the maximum pump pressure.
3. Data recording equipment should be located as far as practical from the discharge line.
4. Anchor all lines and pressure test as needed.
5. A service company and/or company employee must be designated to operate valves at the wellhead in case of an emergency.
6. All service and company personnel must keep a safe distance from pressured-up lines. No one should be in the derrick or on the rig floor while pumping cement.

The following checklist is recommended during perforating operations:

1. The perforating truck should rig up outside dead man anchors and guy wires and be positioned upwind of the wellhead if possible.
2. The perforating company must place warning signs at least 500' away from the operation on all incoming roads.
3. Welding, on location, is not permitted during the perforating operation.
4. Perforating must be suspended during electrical, thunderstorms or sandstorms.
5. Turn off all radios that are within 500' of the operation. They should not be used while rigging up and loading perforating guns or until the gun is at least 500' in the hole. The same process should be repeated when pulling out of the hole.
6. The perforating truck must be grounded to the rig and wellhead before installing the blasting cap(s).
7. Insure that the key to the perforating panel is removed from the panel and the generator on the truck is turned off while arming the gun.
8. No one is allowed in the derrick or on the rig floor while perforating.
9. Upon completion of the operation, the work area shall be thoroughly inspected and all scraps and explosive materials shall be properly removed from the location by the service company performing the operation.

CURRENT WELLBORE DIAGRAM STEVENS B-14 NO. 2 NEW MEXICO FEDERAL UNIT



PROPOSED WELLBORE DIAGRAM STEVENS B-14 NO. 2 NEW MEXICO FEDERAL UNIT

