

Smith Federal Well No. 1
Plug and Abandon Procedure

Summary: The following procedure is recommended to permanently plug and abandon the subject well.

1. Set CIBP at 7030'. With dump bailer dump 3 sacks cement on top of plug(approximately 40').
2. Pull approximately 6450' of 4-1/2" casing.
3. Spot 35 sacks(180') across 4-1/2' casing top.
4. Spot 35 sacks(100') across 9-3/8" intermediate casing at 2420'.
5. Spot 17 sacks(50') cement at surface.
6. Set permanent marker & clear and restore location.

Location: 1930' FNL & 2080'FEL, Sec. 1, T-22S, R23E, Eddy Co., New Mexico.

Elevation: 3915'KB(12' AGL)

Completion: Wolfcamp Perfs 7146-7386'
TD: 9697' PBTD 7420'
Surf Csg: 13-3/8, 48# at 346', cemented w/ 325 sks, circulated.
Inter Csg: 9-3/8, 32.3# at 2420', cemented w/670 sks to surface.
Prod Csg: 4-1/2, 10.5&11.6# at 8120', cemented w/420 sks, TOC at 6550' by temperature survey.

Notes:

1. All cement slurry used in this procedure shall be Class 'C' w/2% CaCl, 6.3 gals water/ sack, 14.8 ppg, 1.32 cu. ft./ sack.
2. All mud for loading hole shall be 9.0+ ppg with 25 lbs. of gell per bbl. of brine.
3. Notify BLM prior to commencing operations.

Recommended Procedure:

1. MIRU plugging unit. Bleed well pressure and kill as needed. ND wellhead & NU BOP.
2. Unset Baker Loc-Set packer at 7030'(packer has on/off tool), TOO H with tubing. Visually inspect tubing for suspect leaks & connections.
3. RU wireline company & RIH with 4-1/2" CIBP and set at 7,030'. Run dump bailer and dump 3 sacks of cement(approx. 40' fill) on top of plug.
4. RIH with tubing & SN on bottom to 6950', circulate hole with mud. Drop SV & pressure test tbg. to 2000#, recover SV. POOH w/tbg.
5. RU casing pullers. Run wireline freepoint & then run casing cutter to cut casing 40' plus or minus above freepoint. POOH & lay down casing.
6. RIH with open ended tbg to 90' below top of 4-1/2" casing. Establish circulation with mud and spot 35 sacks cement. Pull up hole WOC. Tag plug.
7. Spot 35 sacks of cement from 2470' up to 2370'. Pull up hole & WOC. Tag plug.