

63E/6 SRC 1970
SMOKY BURN WELL B
SE4-1-51-8-W2
OBSERVATION WELL
HAYTER DRILLING CO.
D. HAYTER
DRILLERS: C. HIGGINS

Top of 6 3/8" casing is measurement datum. Elevation 1046.27 ft.
Referenced to SDH bridge elevation (see location plan)

9" hole drilled to 22 ft.
Casing hung in hole bottom dented in to prevent packer and bushing from coming out.
Screen landed free fall.
Well developed by hydraulic jetting.
Would not deliver much water by air lift. Finish development by pumping @ 0.5 gpm.

Initial nonpumping water level 9.75 ft.
Well sterilized w/ 0.5 gallons Juvex and recorder house grouted in place.

Till brown, rocky 10

Sand fine to v. coarse stained poorly sorted, dirty, subangular probably interbedded with till.

Construction supervised by
CPL Mearns Perry December 9, 1970.

6 3/8" insert joint 13/16" ft water well casing (Hectors).

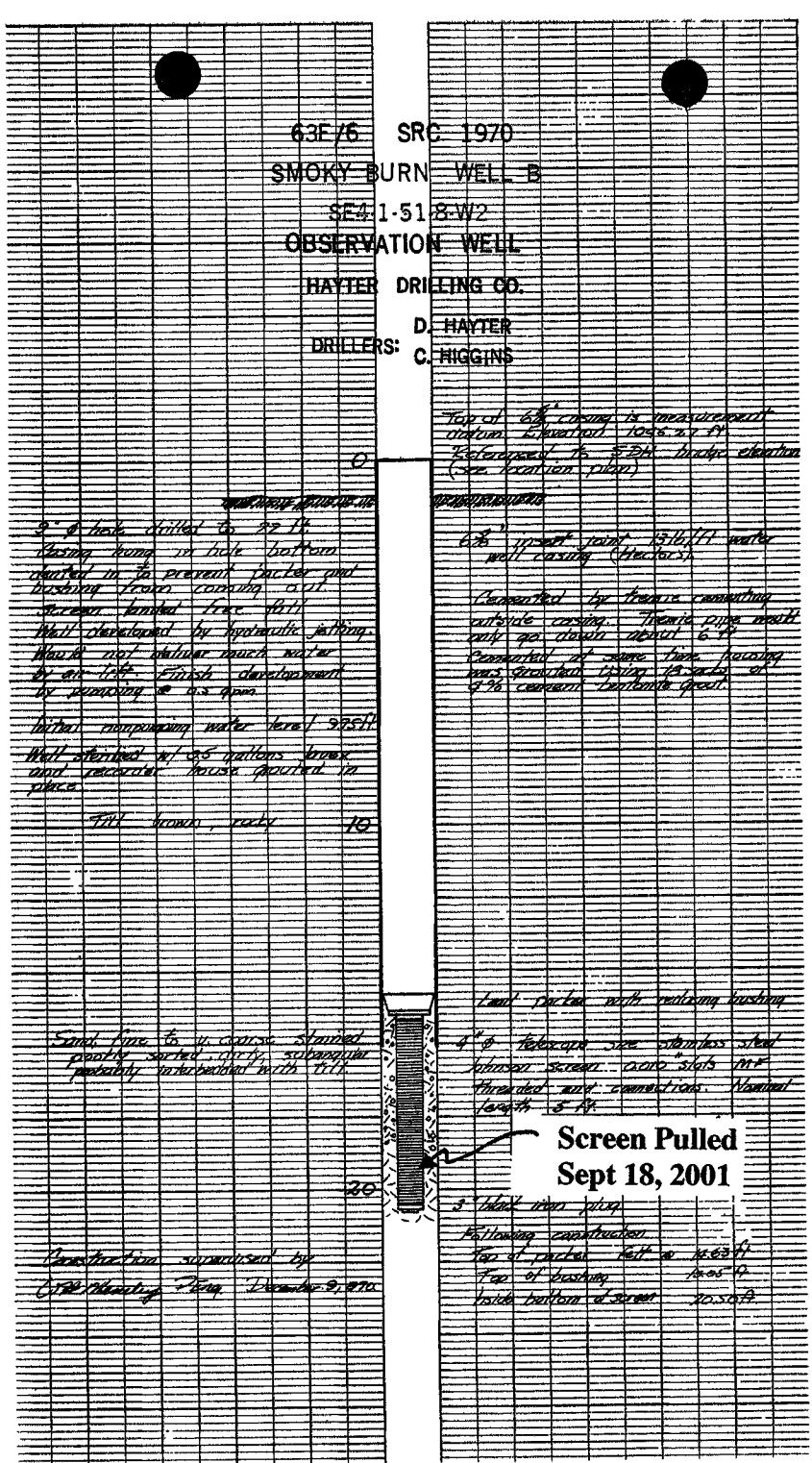
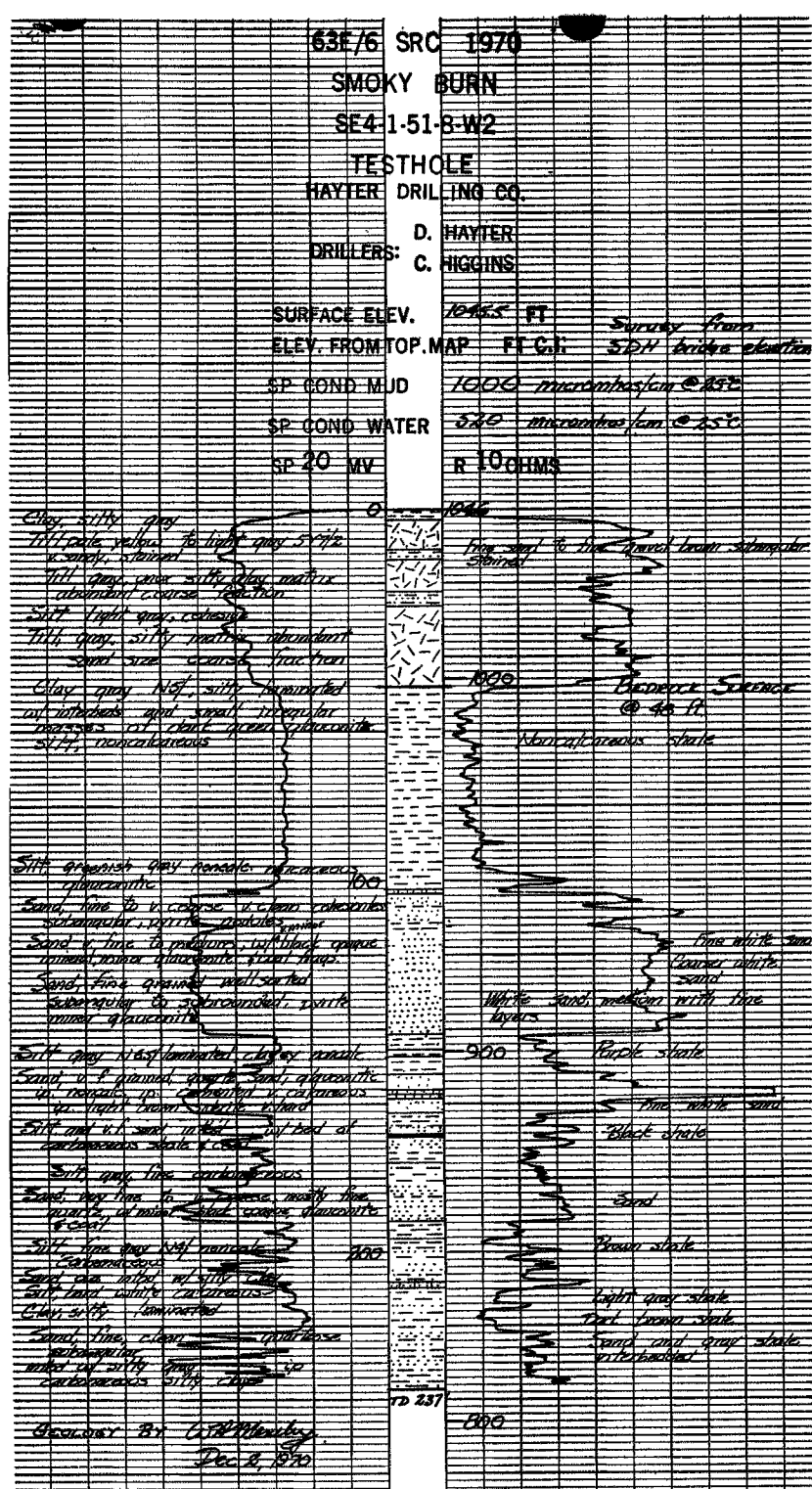
Cemented by tremie cementing outside casing. Tremie pipe would only go down about 6 ft.
Cemented at same time housing was grouted using 18 sacks of 4% cement bentonite grout.

Land packer with reducing bushing

4" telescope size stainless steel Johnson screen 0.020" slots 11' threaded and connections. Nominal length 5 ft.

3" black iron plug.

Following construction
Top of packer felt @ 12.63 ft
Top of bushing 13.05 ft
Inside bottom of screen 20.50 ft.



SRC SMOKY BURN B Retrofitted
September 18, 2001
wl = 502.781 or 5.028 @ 11:04
5.300
0.281
5.019 @ 11:08

Washout Procedure

The bottom of the well was washed out using a centrifugal pump connected to a water tank. Approximately 700 gallons of water was used to wash and jet the formation below the casing and jet the screen in place.

Screen Assembly and Casing Talley

- From bottom of wash down valve to:
- bottom screen slots - 0.110 m
 - top screen slots - 0.868 m
 - bottom 2" reducing bushing 0.900 m
 - two inch screen assembly - 0.020 slot
- 4" S.S. casing from top of casing to:**
- bottom of casing - 6.42 m
 - bottom of 2" reducing bushing - 6.44 m

Total length of casing 7.340 m

Completion

- add 2 1/4 bags of 10-20 Frac Sand - 50 lbs./bag
- to 3.5 m top of original casing
- add 1/4 bentonite pellets to 3.3 m
- 4 inch S.S. casing is 0.652 m above old casing

SRC Smoky Burn B well screen was pulled using a sack tied to a black iron pipe. The end was lowered into the well screen and sand was poured into the casing to lock the screen. Two hand jacks were used to loosen the screen. The pipe, with screen, was pulled by hand. The bottom of the well was washed out. The well was retrofitted using 6.440 m 4 inch ID, SCH 40, 316 stainless steel pipe. A 2 inch Slot 0.020 stainless steel Cook Tm screen 0.900 m in length was attached to the casing. The screen was gravel packed with 10-20 fractionated sand. The annular space between the existing steel casing was grouted with hydrated Cetco Tm Crumbles #8 grout. The total length of well from top of casing is 7.340 m. The casing stickup above the old casing is 0.652 m. The well was completed by SRC (EJJ & DAZ).

