

FIELD REPORT FOR CEMENTING OF WELLS

* witness

Size of Hole	Size of Casing	Weight Per Foot	New or Used	Depth	Sacks Cement
17 1/2"	13 3/8"	48		150	175 ctn.
12 1/4"	8 5/8"	24		1800	1800 "
7 7/8"	4 1/2"	10.5		7000	500

✓ (Approved) (Rejected)

Cementing Program

Type of Shoe used Half Float collar used ¹⁷⁵⁵ Insert Btm 3 jts welded Yes

TD of hole 1800 Set 1836.74 Feet of $5\frac{7}{8}$ Inch 24 # Grade 4-40

New-used csg. @ 1800 with 200 w/240 sacks neat cement around shoe

+ 250 Halo Sax + 1/16" Silicate + 1/4" PPR Sx + 3/64" additives 350x Halo lite w/s* per sx 616 nit + 1/4" PPR Sx flo Sx + 250

Plug down @ 4:00 (AM) (PM) Date 2008x 3/11/77

Cement circulated	No. of Sacks
1/2	

Cemented by Halliburton Witnessed by MD

Temp. Survey ran @ 1000 (AM) (PM) Date 3/2/77 top cement @ 470

Casing test @ (AM) (PM) Date

Method Used	Witnessed by
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Checked for shut off @ (AM) (PM) . Date

Method used	Witnessed by
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Remarks: 3 Centralizers on B₁m in IL

Brskets @ 392, 850-1100-1190-1320

1st Stage - Run 1" Pipe to 272' - Pumped in 20/40 Frac Sand mixed w/
40 Ex Class C w/ 4% DC.

2nd stage - Tagged top of Cement - 102' - set 1" type 2 SPC - Pumped 100%
20/40 Sand mixed w/ 20 ex 200 - 20 w/ 40 SPC -

3rd stage Tagged top of Cement @ 403' - Pumped 10 BX 20/40 Sand
waited 15 minutes + tagged top of Sand @ 298'

4th Stage 1" Pipe set @ 310' - Pumped 50 SX Class C w/ 4% CC - Top of Cement
ESD

5th Stage 1" Pipe get a 186' - Pumped 3527 Gallons @ 4% CC - Dr 100x