w42500

F-6 IM 3-49

Well Information for Layne-Western Co.

11/28/49 Rec'd.

This sheet is to be filled in and mailed to office upon completion of well

1. City of Sioux City (Name of Job) — November 14, 1949 (Date)
2. Sioux City (City) — Iowa (State)
3. Well No. Layne No. 3 (City No. 20) Layne Nebraska — C. L. Eitel (Driller's Name)
4. Well location: 30' south and on 11th Street. 150' east and on MacDonald Street
   Give Distance and Direction from Permanent Land Mark so Well can be Accurately Located Several Years from now.
5. Work began 10-20-49; work completed 11-12-49. Number of working days 18
6. Diameter, length and type of material left in well:
7. 115 feet of 3/4" bored holes (Shutter, Concrete, Keystone) screen made of Steel 3/8" wall (Armco, Bronze, Stainless Steel, Concrete) No. 3/4" (Mesh) openings.
8. 161 feet of 20 inch inside casing made of Steel, 3/8" wall (Armco, Std. Pipe, Concrete) with welded (Riveted, Welded, Screw) connections.
9. 0 feet of ..... inch outside casing made of ..... (Armco, Std. Pipe) with ..... (Riveted, Welded, Screw) connections
10. 6 yards of gravel used in well. Size 1" - 1½".
11. Test of well. Did you use test or permanent pump? Did not test ..... (Size of Bowl) ..... (Stages)
12. Pump No. .....; geared head No. .....; ratio .....; r.p.m. .....; pulley diam. .....
13. Power used ..... (Electric Motor, Engine); horse power .....; voltage.....; r.p.m .....; pulley diam. .....; r.p.m. .....
14. Size of orifice ..... inch, by ..... inch. Orifice tube reading ..... inches.
15. Pumping test—measurements from ground level:

Time	G.P.M.	Static	Drawdown	Pumping Level

16. Recovery in 5 minutes ....., in 30 minutes .....
17. Customer's pump No. ..... was installed in this well by .....

18. Did you seal bottom of well? Yes Thickness ..... inches, material Steel float shoe

19. Was well under-reamed? No From ..... feet to ..... feet.

From ..... feet to ..... feet.

From ..... feet to ..... feet.

20. If all screen was not placed at bottom, state how it was spaced. All at the bottom

From ..... feet to ..... feet; from ..... feet to ..... feet; from ..... feet to ..... feet.

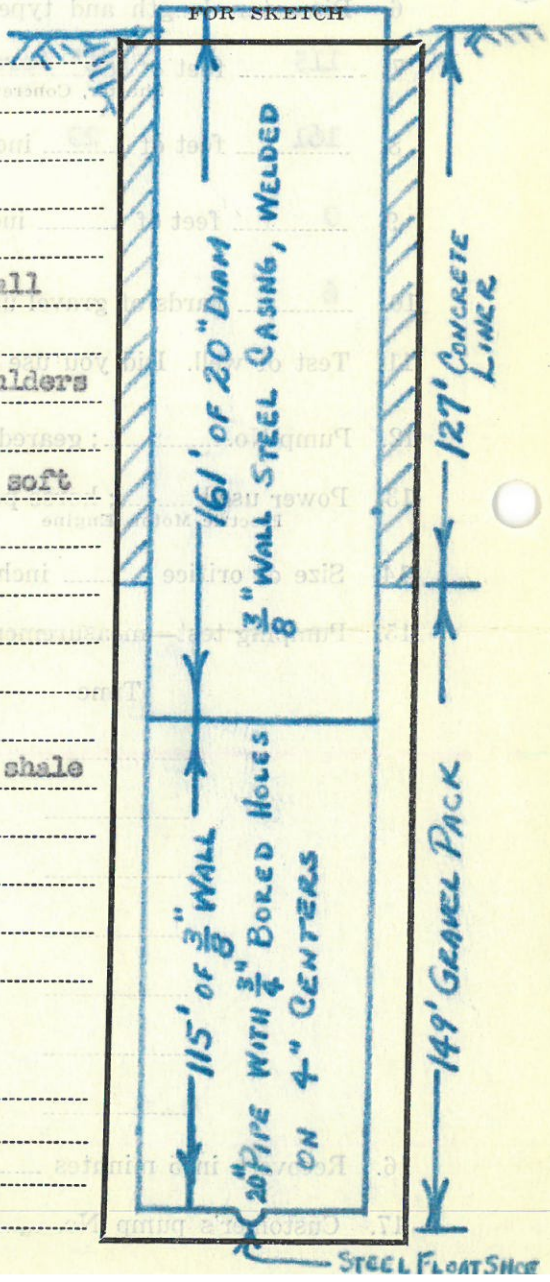
21. Depth of well (from ground level to top of plug) 276 feet ..... inches.

22. Was cement placed around or between any of the casings? Yes.

23. If, so, state where, how much and method used. 127' to ground level. Run in through a string of 2" pipe

24. Log of well from ground level:

Feet		Feet	Formation
0	to	5	Fill - Rock and Brick, etc.
5	to	15'	Brown clay, cinders and brick
15	to	41	Blue sandy clay
41	to	45	Fine brown sand
45	to	60	Fine brown sand - small boulders
60	to	75	Coarse sand - some gravel - few small boulders
	to		
75	to	90	Coarse sand, gravel and numerous boulders
90	to	97	Medium to fine sand, clay streaks
97	to	150	Coarse brown sandstone, some clay, soft drilling
	to		
150	to	158	Hard limerock and shale
158	to	210	Grey sandstone
210	to	213	Shale
213	to	235	Grey sandstone (clean)
235	to	260	Grey sandstone, few thin ledges of shale
260	to	275	Grey sandstone - clean
275	to	327	Shale - streaks of sandstone
	to		
	to		
	to		



25. Remarks: