F-6 5M 1-45

RECEIVED
OCT 25 1952
LAYNE-WESTERN CO.

Well Information for Layne-Western Co.

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

1. Town A Rhodes, Ia. (Name of Job) 10-13-52 (Date)
2. Rhodes (City) Iowa (State)
3. Well No. 2 Jas. H. Waters (Driller's Name)
4. Well location: by water tower
   Give Distance and Direction from Permanent Land Mark so Well can be Accurately Located Several Years from now.
5. Work began 9-22-52 work completed 10-11-52 Number of working days _____.
6. Diameter, length and type of material left in well:
7. 12 feet of shutter screen made of Armco (Shutter, Concrete, Keystone; Armco, Bronze, Stainless Steel, Concrete) No. _____ openings. Mesh
8. 285 feet of 8 inch inside casing made of stl. pipe with T & C connections. (Armco, Std. Pipe, Concrete; Riveted, Welded, Screw)
9. 265 feet of 18 inch ~~outside casing~~ open hole made of _____ with _____ connections. (Armco, Std. Pipe; Riveted, Welded, Screw)
10. 7000 lbs. ~~yards~~ of gravel used in well. Size Buck shot mesh
11. Test of well. Did you use test or permanent pump? test 8 (Size of Bowl) 8 (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 orfice 3 inch, by 4 inch. Orifice tube reading _____ inches.
15. Pumping test—measurements from ground level:

Time	G. P. M.	Static	Drawdown	Pumping Level
8:00 A.M.	119	90	18	108
9:00	137	90	22	112
10:00	137	90	22	112
12:00	137	90	22	112
2:00 P.M.	137	90	22	112
4:00 "	137	90	22	112

16. Recovery in 5 minutes _____, in 30 minutes _____.
    _____ No. 12 _____ was installed in this well by

Did you seal bottom of well? ——. Thickness — inches, material ——

). Was well under-reamed? no. From — feet to — feet.

From — feet to — feet.

From — feet to — feet.

). If all screen was not placed at bottom, state how it was spaced.

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

1. Depth of well (from ground level to top of plug) — feet — inches.

2. Was cement placed around or between any of the casings? yes

3. If so, state where, how much and method used. the top 12 ft. of 8" casing was Cemented

4. Log of well from ground level:

Feet	Feet	Formation
0	18	yellow Clay
18	48	blue clay
48	52	limestone
52	72	brown-yellow clay
72	95	blue-black clay
95	96	limestone
96	108	blue shale
108	130	sandy blue clay
130	143	hard sandy clay
143	221	blue clay
221	223	very hard clay
223	234	hard clay
234	237	very hard clay (blk)
237	241	soft clay (blue)
241	248	blue clay
248	266	sand
266	272	hard crevice limestone
272	294	Cemented gravel
—	—	—
—	—	—

FOR SKETCH

5. Remarks: This well was reamed to 18" & 8" pipe & set to depth of 295' & gravel packed