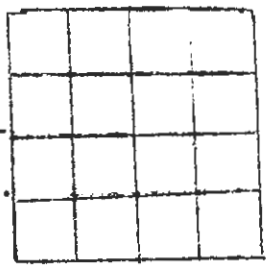
W13715

IOWA GEOLOGICAL SURVEY
In Cooperation with U. S. Geological Survey
RECORD OF WELL

Location:

Town: _____ (NE) (SW) County Decatur

sec. 18 T. ___ N., R. ___ (E) (W) _____ Twp.



Well name and number Test D-8(1)

Owner U.S.G. Address [illegible]

Tenant _____ Address _____

Contractor [illegible] Drlg. Co. Address [illegible] Neb.

Drillers _____

Drilling dates July 4, 1941

Well data:

Altitudes: Drilling curb _____ feet; Land surface _____ feet _____

_____

Determined by _____

Topographic position _____

Total depth: Reported 365' feet; Measured _____ feet _____

_____

Drilling method _____

Hole and casing data _____

_____

_____

_____

Original depth to water _____ ft. (above) below _____ Date _____

Source of data _____

Sources of water: Principal _____

Others _____

PRODUCTION DATA

Date _____

Static water level _____

Pumping water level _____

Yield (g.p.m.) _____

Measuring point _____

Duration of pumping _____

Specific capacity _____

LABORATORY DATA TL4-445

Well No. 13715 Sample range 0-365 No. of samples _____

No. of dupls. and cond. 2 Washed range _____

Samples prepared by Brooks Date 8/1/62

Logged by NORTHUP Date 8/7/62

Correlations by _____ Date 8/7/62

D-80

DRILLER'S NOTEBOOK

WELL RECORD

DRILLER Layne Drilling Expl. Co.

ADDRESS 620 Farnam Bldg.

Omaha, Nebr.

OWNER U.S. Geological Survey

ADDRESS Geological Survey Bldg.

Iowa City, Iowa

RETURN TO

IOWA GEOLOGICAL SURVEY

IOWA CITY, IOWA

WHEN RECORD IS COMPLETED PUT IN ENVELOPE AND MAIL TO

THE DIRECTOR

IOWA GEOLOGICAL SURVEY

IOWA CITY, IOWA

DRILLER'S NOTE

It is important that a driller's notebook, filled out as completely as possible, be sent to the Iowa Geological Survey at the completion of each hole. A number of drillers have found it convenient to string samples from a single well on a heavy wire and attach the log book to them. A hole has been punched in the log book for this purpose.

Sample sacks and log books will be furnished by the Geological Survey. A copy of the log book will be made and returned if desired by the driller.

SUGGESTIONS TO DRILLERS

1. Samples should be taken from each bed passed through, and never more than 5 feet apart, even in the same bed.
2. Samples should not be washed, except to remove excess drilling mud, as washed samples may give a wrong idea of the character of the bed.
3. Fill out the label on each sample bag with the name of the well and the depth interval which the sample represents.
4. Make frequent use of the "Description" column to explain the material being drilled.
5. Note depth and thickness of all water-bearing layers.
6. Note the quality of the water from each layer: as hard, soft, salty, alkaline, or sulphur bearing.
7. Note height to which water from each layer rises in well, and give flow or capacity in gallons per minute.
8. Fossils, such as oyster, clam, and other shells, are important and should be placed in bags with the material with which they are found and carefully labeled as to the depth from which they were obtained.
9. If you do not understand what is wanted, or desire information on any point, write to the Iowa Geological Survey, Iowa City, Iowa.
10. Samples may be boxed and sent to IOWA GEOLOGICAL SURVEY, IOWA CITY, IOWA, EXPRESS COLLECT.

The Iowa Geological Survey desires to assist and cooperate with owners and drillers in every way possible, and will be glad to answer questions and assist in the solution of problems at any time.

PB—D-6467

WELL RECORD

Well is located 1 miles N E (S) W and .... miles N E S W from

Van Wert (Nearest Town) in Decatur (County),

in the SW ¼ SW ¼ Sec. 18 T. 70 N R. 25 W

Owner U.S. Geological Survey Well No. D-80

Postoffice address Geol. Survey Bldg. - Iowa City, Iowa

Contractor Lane Drilling & Expl. Co.

Address 620 Farnam Bldg. - Omaha, Nebr.

Driller Carroll Clare Lane

Well begun July 24, 1962;

completed July 24, 1962

Rig used—Cable, Rotary, Jet, or ....

Depth of well 375 (Feet)

Size of hole (note total amount of each size) ....

5"

Main water supply at .... (Feet below surface)

Final water head .... (Feet above or below surface)

Is well pumped? ....

Yield .... (Gallons per minute)

Water level when pumping ....

Position of well .... (Upland, valley, side hill, etc.)

Sample No.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.		
	0	3	Road Fill -	Brown Till	7:03	7:09
	3	5	Yellow	Clay	7:09	7:14
	5	10	"	"	7:14	7:17
	10	15	"	" (Sandy)	7:17	7:20
	15	17	"	" Sandy	7:31	7:36
	17	20	Sandy	Yellow Clay See	7:36	7:38
	20	25	Very Sandy	Yellow Clay	7:38	7:39
	25	30	" "	Blue Clay	7:39	7:41
	30	35	Blue	Clay	7:49	7:52
	35	40	Grey	Clay	7:52	7:54
	40	45	"	"	7:54	7:58
	45	50	"	"	8:06	8:10
	50	55	"	"	8:10	8:12
	55	60	"	"	8:12	8:15
	60	65	"	"	8:22	8:24
	65	70	"	"	8:24	8:26
	70	75	"	" (Sandy)	8:26	8:30

Sample No.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS — KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.		
	75	80	Grey	Clay	8:35	8:38
	80	85	"	"	8:38	8:40
	85	90	Yellow	Grey Clay mix	8:40	8:43
	90	95	"	" " "	8:49	8:52
	95	100	"	" " "	8:52	8:57
	100	105	"	" " "	8:57	9:02
106 B.R. Bard P.D.	105	110	"	" " "	9:10	9:14
	110	115	"	" " "	9:14	9:17
B & R. 119'	115	120	"	" " "	9:17	9:20
	120	123	"	" " "	9:28	9:30
	123	125	(Sand)	" " " (BKS. Fine)	9:30	9:31
	125	130	"	" " "	9:31	9:34
	130	135	"	" " "	9:34	9:37
	135	140	"	" Sandy "	10:12	10:15
	140	145	"	" Sand "	10:15	10:18
	145	150	"	" Sandy "	10:	10:21
12-13	150	155	"	" Sandy "	10:26	10:28

Sample No.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.		
	155	160	Yellow Gray	Clay Sandy	10:28	10:30
R-13 163'	160	165	"	"	10:30	10:35
	165	170	"	"	10:40	10:44
	170	175	"	"	10:44	10:49
	175	180	Blue	Clay "	10:49	10:53
	180	185	Blue	Clay Sandy	10:00	11:03
185' R-13	185	190	"	"	11:03	11:09
R-13 Bit 6	190	195	"	"	11:09	11:12
R-13 Bit 5	195	200	"	"	11:20	11:23
	200	205	"	"	11:23	11:27
	205	210	"	"	11:27	11:30
	210	215	"	"	11:36	11:40
	215	220	"	"	11:46	11:43
	220	225	"	"	11:43	11:47
	225	230	"	"	11:52	11:55
	230	233	"	"	11:55	11:59
	233	234	Sandy	BBS.		

Sample No.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS — KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.		
	234	235		Blue Yellow Sandy Clay	12:00	12:01
	235	240	" "	" very Sandy	12:01	12:04
	240	245	" "	" " "	12:09	12:13
	245	250	" "	" " "	12:1[illegible]	12:16
	250	255	" "	" thin mud	12:16	12:24
	255	260	" "	" "	12:36	12:39
	260	265	" "	" "	12:39	12:43
	265	——		(Changing Brown on pump)	12:43	——
	265	266		Blue + yellow Clay mixed Sandy	1:44	1:45
[redacted]						
	266	270		Blue + yellow Clay (Sandy)	1:45	1:48
	270	275	"	" " (")	1:57	2:02
	275	280		Blue + yellow Clay mixed (Sandy)	2:02	2:08
	280	285		Blue + yellow clay mixed (Sandy)	2:08	2:14
	285	290		Blue + yellow Clay mixed (Sandy)	2:23	2:29
	290	295		Blue + yellow Clay mixed (Sandy)	2:29	2:35
	295	300		Blue + yellow mixed Clay	2:35	2:40

Sample No.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS — KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.		
	300	305	Blue & yellow Clay mixed.		2:51	2:56
	305	310	Blue & yellow Clay mixed		2:56	3:03
	310	315	Blue & yellow Clay mixed		3:03	3:08
	315	320	" " "		3:17	3:21
	320	325	Blue & yellow Clay mixed		3:21	3:26
	325	330	" " "		3:26	3:30
	330	335	Blue & yellow Clay mixed		3:36	3:40
	335	340	Blue & yellow Clay mixed		3:40	3:45
	340	345	Blue & yellow Clay mixed		3:45	3:49
	345	350	Blue & yellow Clay mixed		3:56	4:00
	350	351	Blue & yellow Clay (Some Shale)		4:00	4:03
	351	355	" " " (Some Shale)		4:03	4:08
	355	360	Blue Clay	Some Gray Shale	4:08	4:12
	360	364	" "	" " "	4:19	4:23
	364	365	Shale		4:23	4:28
	[redacted]				[redacted]	
Start Coring at 365'	365	366	Run core Barrel (9 min)		5:39	5:48

Sample No.	DEPTH From	DEPTH To	THICKNESS
2	366	367	
3	367	368	
4	368	369	
5	369	370	
6	370	371	
7	371	372	
8	372	373	
9	373	374	
10	374	375	
		375 T.D. End of 10' core	

DESCRIPTION OF BEDS — KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.		
(5 min)	5:48	5:56
(7 min)	5:56	6:03
(11 min)	6:03	6:14
(13 min)	6:14	6:27
(6 min)	6:27	6:33
(4 min)	6:33	6:37
(6 min)	6:37	6:43
(6 min)	6:43	6:49
(5 min)	6:49	6:54