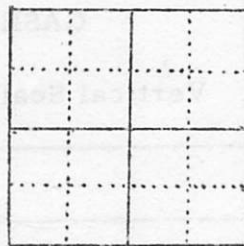


IOWA GEOLOGICAL SURVEY
In Cooperation with U. S. Geological Survey

W 8628

RECORD OF WELL

Location: NORTH PART OF TOWN
U.S. 71 W 12 S 34 T 97 N R 20 W
Town: MASON CITY (NE) (SW) : County CERNOGONDO
SE NW sec. 34 T. 97 N., R. 20 W. Twp.



Well name and number _____

Owner DECKER PACKING CO. Address _____

Tenant _____ Address _____

Contractor THORPE WELL CO. Address DES MOINES, IOWA.

Drillers ORIAN L. ATCHISON AND ZON BROWER
0-1210' 409'-1210'

Drilling dates APRIL 19 - JULY 18, 1957

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

Determined by _____

Topographic position _____

Total depth: Reported 1210' feet, Measured _____ feet

Drilling method CABLE TOOLS

Hole and casing data 102'6" OF 20" CASING FROM +6" TO 102'

109' OF 16" CASING FROM 633'-742'

247' OF 12" CASING FROM 795'-1042'

Original depth to water 219' above
ft. below _____ Date _____

Source of data STATIC @ 32'6" LEVEL DROPPED SUDDENLY @ 994' LEVEL

Sources of water: Principal _____

Others _____

Production Data

Date			
Static water level	219		
Measuring point			
Pumping water level	287	299	
Yield (g. p. m.)	1023	1105	
Duration of pumping	6 2/4 HR.	10 1/2 HR.	
Specific capacity	OFFICIAL TEST	ADDITIONAL TEST	

Pump Data

Type pump _____ Column diameter and length _____
 Cylinder or bowls diameter and length _____
 Suction pipe _____ Airline _____
 Power _____ Production _____ g. p. m. for _____ hours per day
 Use of water _____

Dissolved constituents and properties (in parts per million except as indicated)

Date sampled			
Sampled by			
Silica (SiO ₂)			
Iron (Fe)			
Manganese (Mn)			
Calcium (Ca)			
Magnesium (Mg)			
Potassium (K)			
Sodium (Na)			
Carbonate (CO ₃)			
Bicarbonate (HCO ₃)			
Sulfate (SO ₄)			
Chloride (Cl)			
Fluoride (F)			
Nitrate (NO ₃)			
Dissolved solids			
Hardness (as CaCO ₃)			
Total			
Grains per gallon			
Noncarbonate			
Alkalinity (as CaCO ₃)			
pH			
Specific conductance (micromhos at 25°C)			
Temperature (°F)			
Analysis No.			

Laboratory Data

Well No. **W 8628** Sample range **0 - 1210** No. of samples **220**
 No. of dupls. and cond. **205 Good** Washed range **15 - 1210**
 Samples prepared by **R. Valentini** Date **8/12/57**
 Logged by **NORTUP** Date **12/10/57**
 Correlations by _____ Date **12/10/57**

Cerro Pando

IOWA GEOLOGICAL SURVEY
Iowa City, Iowa
GEOLOGIC MASTER CARD

Owner Or Name: Decker Parking Co, Mason City Date Well Completed: 7/18/57
 Name Address
 Driller: Truman Well Co, Des Moines
 Name Address
 Samples Analyzed by: R. C. Mott Date: 12/10/57
 Section Measured by: _____ Date _____
 (Cross Out One)

State	County	Latitude										Longitude						Seq. No.	L-L Acc.							
16	17	4	5	0	9	5	0	N	0	9	3	1	3	0	1	3										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20							
Twp.		Local Number			Quarters			W-number			Strat. Data	Altitude LSD		Altitude Acc. (Source)	Total Depth											
0	9	6	2	0	W	0	3	B	A		5	1	0	8	6	7	1	2	1	0						
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47

Surficial Lithology	First Bedrock				Bottom Hole Formation			Basement		Economic Value and System														
	Depth	S	S	U	S	S	U	Lith.	Depth	V	S	V	S	V	S	V	S	V	S					
5		1	5	D	U	S	C	S	T					A	D	A	0	A	C					
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72

Number of Aperature Cards	Type of Log Data		Type of Exposure	Number of Geologic-Unit Cards		Card Designation Number	
	G		A	2	1	1	
73	74	75	76	77	78	79	80

Coded by: R. W. Colby Date: 5/22/68
 Coded data checked by: J. C. PRIOR Date: 5-27-68
 Punched by: _____ Date: _____
 Verified by: _____ Date: May 1968

AL SURVEY

IOWA

GEOLOGIC - UNIT CARD

DEPTH TO BASE				GROSS TEXTURE OR STRUCTURE	PRIMARY LITHOLOGY				SECONDARY LITHOLOGY				MINOR LITHOLOGY				DIAGNOSTIC CHARACTERISTICS	FOSSILS	ECONOMIC PROPERTIES	LAND SURFACE ALTITUDE	CARD SEQUENCE NUMBER	CARD DESIG. NO																																															
					LITHOLOGY			PERCENT	LITHOLOGY			PERCENT	LITHOLOGY			PERCENT																																																					
42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																															
			4			A																																1086	1	2																													
			15			G																																		2	2																												
			32			G																																		3	2																												
			32			G																																			4	2																											
			300			G						N																													5	2																											
			425			G						Z																														6	2																										
			325			G																																					7	2																									
			425			G						Z					N																										8	2																									
			650			N						G					Z																											9	2																								
			150			N						Z					Z																												10	2																							
			700			X						N																																	11	2																							
			723			N						X					G																												12	2																							
			723			X						N																																		13	2																						
			793			G																																									14	2																					
			1129			G						G					Z																															15	2																				
			700			G						G					Z																																16	2																			
			955			G						G					Z																																	17	2																		
			127			G						Z																																					18	2																			
			1210			G						G																																						19	2																		
			188			G																																													20	2																	
			210			G																																													21	2																	
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Duplicate
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74-77
on all
cards.

THORPE WELL COMPANY

2340 SIXTH AVENUE
DES MOINES, IOWA

Drilled for Decker Packing Company at Mason City, Iowa

Well is located 200' miles N-~~E-S-W~~ and _____ miles N-E-S-W from of cattle shed

in the SE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 34 Township 97-N Range 20-W (Cerro Gordo Cty.)

Drilling started April 19, 19 57 Completed July 18, 19 57

Well No. 4 Kind of Well Drilled Depth 1210 Size hole started 20 in.
1023 287' (24 hr. Official Test)

Finish 12" G. P. M. 1105 Static Head 219 Pumping level from surface 299' (10 1/2 hrs. additional testing requested)

Water was first encountered at 994' in limerock Approx. Amt. _____ Temp. 52°

Remarks Static at 32' 6" level dropped suddenly at 994 level.

(GIVE DETAILS OF PERFORATED PIPE AND SEALS)

RECORD OF PERMANENT PIPE					TEMPORARY PIPE	
SIZE PIPE	AMOUNT OF PIPE	DEPTH TO BOTTOM OF PIPE	DEPTH TO TOP OF PIPE	MAKE OF PIPE	SIZE PIPE	AMOUNT
20"	102' 6"	102'	6" above ground	Standard .344 wall	26"	15'
16"	109'	742'	633'	Standard .344 wall		
12"	247'	1042'	795'	49 #		
(12" liner is perforated with two 1/2" x 3" diamond slots every foot through the crevices. This liner is in two sections - one 209' in length with entering and drive shoes, the other 38' 9" in length with entering shoe.)						

Driller Orian L. Atcheson From Surface to 1210 feet

Driller Zon Brower From 404 feet to 1210 feet

Driller _____ From _____ feet to _____ feet

AMOUNT IN FEET	KIND OF SOIL OR FORMATION (BE SPECIFIC)	TOTAL DEPTH FEET
4	Black dirt	4
26	Limerock	30
10	Limerock and shale	40
47	Limerock	87
6	Limerock and shale	93
47	Limerock	140
5	Limerock and shale	145
15	Limerock	160
20	Limerock and shale	180
30	Limerock	210
20	Limerock and shale	230
20	Limerock	250
5	Limerock and shale	255
5	Limerock	260
10	Limerock and shale	270
105	Limerock	375

Continued -

10	Limerock and shale	385
5	Limerock	390
10	Limerock and shale	400
175	Limerock	575
5	Limerock and shale	580
5	Limerock	585
35	Limerock and shale	620
15	Limerock	635
19	Limerock and shale	654
49	Shale	703
13	Limerock	716
7	Shale	723
70	Sandstone (St. Peter)	793
57	Limerock	850
17	Limerock and dolomite	867
18	No sample	885
20	Limerock and dolomite (hard)	905
30	Sandstone	935
15	Limerock and sand	950
40	Limerock	990
25	No sample (crevice in rock water dropped suddenly at 994')	1015
114	Limerock	1129
59	Sandstone (Jordan)	1188
17	Limerock (hard)	1205
5	Limerock and shale	1210 - tape measurement.

Witness - Wes Fiala,
Mechanical Department,
Decker Packing Company.