SEQ. NO.		LONGITUDE							LATITUDE						-	Ł		ш	
	SEC.	010	WIIN.	MIN		DEG.		N. or S.	200	CEC.	MIM	NIN	הבפי	010	NOOD	VTIMINO	1HIC	<	
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WELL SCHEDULE US GEOLOGICAL SURVEY IOWA DISTRICT WRD

OWNER TOWN OF LEGRAN	ND #1000000 / EGRAND
OWNER PERCEPTION	ADDRESS
DRILLER HOEG & AMES	DATE DRLD _APRIL-16-1950
MAP	
SOURCE OF DATA FILE	

AGZ-1711-12-BRR MARSHALL

DESCRIPTION M. P. _____

_ FEET (ABOVE) LSD_

	LOCAL WELL NUMBER	LO	CAL USE	OWNER O	R NAME	OWNERSHIP WATER USE	WELL USE WELL DATA	FIELD CHAR. HYD. LAB.	0 4 0	PUMPAGE APERTURE LOG	DATA CARD DESIG.
FROM	T. R. W SEC. QUARTERS	W-NUMBER	OPTIONAL								_
ABOVE	20 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 48 49 50 51	52 53 54 55 56 57 58 59	60 61 62 63 64 65	56 67 68	69 70 7	1 72 73	3 74 75 7	76 77 78	
	208317W13BBB	041541	50TOWN 1	LEGRAMO		MP	WIG		CI	G	A
WELL-DES	SCRIPTION CARD - B										
		NG NG	ALTITUDE & WATER	DATE YIELD OF	DRAW- V	SS)			OF WA	TER	-00
DUPLICATE	DEPTH OF NELLE MIL	PUMP SETTING METH. LIFT SHALLOW POWER	(FEET)	VIELD OF WONTH WELL (GPM)	-	PUMPING PERIOD (HOURS)		HARD S.P.		SAMPL	ED
CC 1-19	20 21 22 23 24 25 26 27 28 29 30 31 32 33 34		42 43 44 45 46 47 48 49 50 51	52 53 54 55 56 57 58 59	60 61 62 63 64 65	6 67 68	69707	1 72 73	3 74 75 7	6 77 78	79 80
00 1 15	983 58 8P 95	0	9277 54	D450 4	2 283						B
HYDROGEO	DLOGIC CARD-C		(45'\$32	8							
		R AQUIFER	MINOR	AQUIFER	DEPTH TO W	EPTH	U SU M	RF.	COEF.	COEF. STOR.	
			PTH SERIES H 10 9 T	HICK- LENGTH DEPTH	CONSOLI- E	TO	100	1 .			ARD
DUPLICATE	PROVIDE SUB BIAN DRAN		P UF 0 3 0	WELL TO OPEN TO TOP OF		SEMENT				51G. F1G.	_
A CC 1-19	20 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 48 49 50 51	52 53 54 55 56 57 58 59	60 61 62 63 64 65	56 67 68	69 70 7	1 72 73	3 74 75 7	6 77 78	
00 1-15	12E250 MIKPCW6	7878	63M1KA746	10 10 81	220			Q2			C
CASING	AND SCREEN (SIZE, TYPE, INTERVALS):		CODED BY INGA	RAM DA	TE 12-20-2	31.	1	1	1	7	WELL
22	1 dE sting Rading +1	To 21'									NO
de	pro csg start	10 21	all	aire	TE 91774		1	1	1	1	0
81	" &F &" Csg Prøm +1 " &F 7" csg w/ Lower	& 40' SLOTTE	PUNCHED BY	04				13		-	00
								1	1		W
SE	T ON BOTTOM.		VERIFIED BY	DA	ATE					1	-1-
			SKETCH ON REVERSE	: YES N		L	i	1			7W-13-BBB
											2
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	entrances and there is a second to be a second	W-4154
In Cooper	IOWA GEOLOGICAL SURVEY ration with U. S. Geological St	- the second sec
· · · · · · · · · · · · · · · · · · ·	RECORD OF WELL	
ocation:	(NE) 01	
Town: <u>Le Grand</u>	(SW):County. //dr	shall is a
NWNWNW sec.	13 T 23 No, Ro. 17- We.	Twp•
Vell name and number	Grand Tawe Well (1	950)
homer Townatters	Fand Address	
Tenant	Address	
	· · · · · · · · · · · · · · · · · · ·	
contractor <u>Hoeg 4 Al</u>	Address Address	incoln Lows
Drillers <u>Mayne b</u>	Vroge	
Drilling dates April	5-16-1950	
Vell data: Elevations: Drilling curb	feet; Land surface	927 feet
Motations. Milling out		- <u></u>
· · · · · · · · · · · · · · · · · · ·		
Determined by Alt -	Pr	· · · · · · · · · · · · · · · · · · ·
	10/11/11/11	
Topographic position	feet, Measured 9	feet
Total depen: Reported		
Duit 2 Dia in status	1 La Anna I	
Drilling method	ne tool	1. 1. 1. 4 21
Hole and casing data	2 - css tra	m 1 260 15 10 -
Al dimited	sq set en lette	matth Ballom
3/0/100		
	· · · · · · · · · · · · · · · · · · ·	
Driginal depth to water 45.	aboveft. below	Date 17 Apt1/ 50
	levelft.; Source of	da ta
Sources of water: Principa	1 11/153 15	Others

1000

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CASING DIAGRAM	LOG
Vertical scale	
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	6-20 · ul day
	20-22 sky net day
	22-40 Roch
TET	40-43 Red sh
1.	43-63. Rock
	63-92 Roch with stilling
	92-98 th
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5/0/3	
	And the second
1 711 98'	
The second second second	
	wind and the seture of the bound
an of field	and the second
Constant and the second se	and an and a second

Production data:		17 Apt 50.	
Static depth to water 45.5			
Pumping level	at	g.p.m.	
	a phase and a		
Specific capacity g.I	p.m. per. ft. drawdo	wn; Temperature	57 °F
Pump data: Type pump	Column Dia	Lengt	n
	Length	Suction pipe	
Power	to the second se		
Estimated rate of production:	the second s	_g.p.m. for	hrs. a da
	NATER ANALYSES (in	wanta non million	
Date samples	NATER ANALYSES (in	pares per million	
Sampled by	· · · · ·		
Total solids			
Insoluble matter			
Alkalinity (Meo)			
Alkalinity (Phn)	Contraction of the local division of the loc		·
рН			
Fe203+ Mn203+A1203			
Alkali as sodium			
Calcium			
Magnesium			<u></u>
Iron (unfiltered)			
Manganese	· · · · · · · · · · · · · · · · · · ·	······································	- the state of the
Fluoride	and the second s		and the second second
Chloride			· · · · · · · · · · · · ·
Sulfate			- ta-
Bicarbonate			
Hardness (ppm)	end i terre de la composition de la com Composition de la composition de la comp		
Hardness (gpg)	· · · · · · · · · · · · · · · · · · ·		
Remarks			
Laboratory data:		ple storage locati	
Sample range 0-98 No Spls. prepared by VLM Wa			
Driller's log and cond.		by	
Insoluble residues: Prepared by		byStrip) log
Microscopic study	strip log_	A A AA	
Gen. log	Correl. by	may 1/a	112,1950

MOORES MODERN Le Grand, Lowa 4/17/50 cut Drillers Log BIK dirt 0-6 yel chay sdy yel chay Rock 6-20 20-22 12-40 Redsh 40-43 43-63 Rock Rock with 54 bands 63-92 92-98 Sh Hoog & Ames - contractor Dring Dates - 4/15-16/ 1900 Loc: NW NW NW Sec 13 T83 N RITW Csg Record 22' of 2' csq set at 21' BI UP 7'' asq set on battom with bottom Ho' statted

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FORM 427575

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

File No. { Washington

Time	D/W	Temp	GPM				Ren	ort.	5		
CONTRACTORY	46.54					M		COLUMN TWO IS NOT	a 1'	6x 15	
1:48								star			
1:50	56.48					1	1 1				1000
1:53	72.90					8-15-1					
1:55	7.P.PO	520	50t								
	70.00										
2:10	70.00										
2:14	70.53					pur	np sp	ecd 1	Cluc to	iting	
2:15									sede		
ALC: NO. OF THE OWNER.	73.55	-									
2:18		3.54				Pur	np to	te :	pead	ed, po	mping
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	70.87					1					-
2:25		52	42.5								
2:28						Pu	mp 3	peed	fluc	tusti	19
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	80.00										
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11.	\$1.63										
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1757	53.89								Second Second		No.
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6:00	50.43										- TANK
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	- Contraction		The second second second second second				CARGENERADATES				TR
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9-230

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY File No.

						+	1			-
Time	D/W									
5:04	18.80									
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	48,16									
6:10	47A2									
5:14	47.58									-
6:18	47:25									1315
7:00	44,40	2								
				-						
					1.5				1	
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							2.46	1.5		
									1.2	
				1.51				1919		
			 A APRIL MINI MARK							Gerralien and
			14.54							

9-230

IOWA GEOLOGICAL SURVEY Iowa City, Iowa

Well Log Record

Owner of well Teun							
Tenent			Town Le Grand	d			
Tenent Location Curb elevation Static level: (Dept	sec.	, [r	_N., RW	final		_Twp.
Curb elevation		_ft. dej	pth	ft.	depth	98	_ft.
Static level: (Dept	h to wate	er above	curb)ft. lev	el <u>131</u>	ft. at g	<u>10 g</u> .m
Contractor <u>H+A</u> (Wayne	Wrag	0)	Date drilled Apr	1/ 13-1	1,1950	2
Description*	FEET			Description*	FE		
	Thick	From	To		Thick	From	To
Black Dirt		0	6				
Hellow Clay		6	20				
Sandy Yollow Qay		20	22				
Rock		22	40				
Red Shale		40	43				
Rock		43	63				
Rochwith shale k	ands	63	92				
Shale		92	98				
*Abbreviate	descript	ions: 1	ise one	e life for each form	ation		

Remarks on water zones and casings_____

22 62' and 90' perforated between pp A. M. Temperature: Air_____OF., Water_____OF. at P.M._____19___ Record obtained from ______ Recorded by _____

IOWA PRESS CLIPPING BUREAU Des Moines, Iowa

Times Republican Marshalltown, Iowa

JUN 16 1950

MAYOR'S PROCLAMATION Notice of Special Municipal Election LeGrand, Iowa

PUBLIC NOTICE IS HEREBY GIVEN that a special municipal elec-tion will be had on the 30th day of June, 1950, at Turbetts Produce House-in the Town of LeGrand, Iowa, from 8:00 o cloce A.M. 8:00 o cloce A.M. at which special municipal election will be submitted to the legal and qualified electors of the Town of LeGrand. Iowa, to be by hum oted upon, the proposition of constructing a Water-works System and incurring an in-debtedness for such purpose not to exceed Twelve Thousand (\$12,000.00) Dollars in payment of part of the cost of said Waterworks System and of is-suing bonds in payment of such in-debtedness for such purpose in an amount not to exceed Twelve Thou-sand (\$12,000.00) Dollars and for levy-ing an annual tax of not more than ten (10) mills upon the taxable prop-erty in the Town of LeGrand. Iowa, liable therefor to pay said bonds and interest thereon. That at said special municipal elec-tion the ballots to be used for the submission of the above proposition will be in substantially the following form: (PACE OF BALLOT) Notice to Voers: For

form: (FACE OF BALLOT) Notice to Voters: For an affirmative vote on the following propos-lition, make a cross (x) mark in the square to the right of the word. "YES". For a negative vote, make a similar mark in the square to the right of the word. "NO".

the right of the word, "NO". "Shall the Town of Le-Grand. Iowa, construct a Waterworks System in and for the Town of Le-Grand, Marshall County, Iowa, and incur and con-tract indebtedness for such purpose not ex-ceeding Twelve Thou-sand Dollars and issue bonds of the Town of YES : integrand, Iowa, for such YES : into exceeding Twelve NO : Thousand Dollars, and issue tot exceeding Twelve NO : Thousand Dollars, and issue into exceeding Twelve NO : Thousand Dollars, and issue into exceeding Twelve NO : Thousand Dollars, and issue tot more than twenty (20) years upon the tax-able property in the Town of LeGrand, Mar-shall County, Iowa, sub-ject to said tax not ex-ceeding ten (10) mills per annum for the pay-ment of such bonds and interest thereon?'' (BACK OF BALLOT) Official Ballot For Constructing an Iedebtedness and Issuing Bonds Therefor Special Municipal Election LeGrand, Iowa Turbetts Produce House, June 30, 1950 Vancil Rawlinson, Town Clerk. That all legal and qualified electors of the Town of LeGrand, Iowa, are hereby notified to appear and vote at said election. This notice is given by authority of

said election.

8

said election. This notice is given by authority of a resolution of the Council of the Town of LeGrand, Iowa, adouted on June 5, 1950, and pursuant to the authority of Chapters 397 and 407., Code of Iowa, for 1946. Dated at LeGrand, Iowa, sthis 8th day of June, 1950. John W., Rhodes Mayor Town of LeGrand, Iowa. Attest: Vancil Rawlinson Clerk-Town of LeGrand, Iowa.

4154 Located in Five Station at W. edge of town \$ 5. of Havy 30 Name LeGrand town well NW NW NW 13-83N-17W, Marshall Co. 115 = 3,8 × 10-2 Loc 98' T.D. Hoeg & Ames, Apr. 1950 W-4154 Jeffords Dvilled Log 22' of 8" csg. from +1' to 21'; 81' of 7" csg with lower 40' Casing slotted and set on bottom Prod. data 28/42 28/42 29/42 33 45 and 54' SWC per 882 873 '8Zt' PWL Hield 42 gpm .0375 40/1.500 280 Water analyses: No. 438 (1522) 8/25/59; No. 19632 4/17/50 loreses not on system = use 430

Eku.

Formation

Chapin

Wassonville

Pros. Hill

McCraney

Maple Mill

927'

Top

905

877

864

845

835

Depth

22

50

63

82

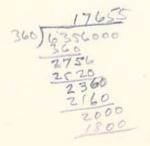
92

Base thick. 877 28 864 13 845 19 835 10

From R. Coble

17414 gpd 40.5grd/per. 6,356,000 gpy1.

92 22



922

File - LeGeand Masshall Co

May 8, 1950

Mr. H. V. Pederson City Hall Marshalltown, Iowa

Dear Mr. Pederson:

Enclosed is a report on the mineral analysis of water from the 98-foot town of Legrand well, as shown by a sample collected by Mr. C. W. Lane on April 17, 1950.

If you have any questions concerning this report, please do not hesitate to let me hear from you.

Very truly yours,

H. G. Hershey

HGH: AM

Encl.

marshall

May 8, 1950

Hoeg & Ames Lincoln Iowa

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Gentlemens

Enclosed is a report on the mineral analysis of water from the 98-foot town of LeGrand well, as shown by a sample collected by Mr. C. W. Lane on April 17, 1950.

If you have any questions concerning this report, please do not hesitate to let me hear from you.

Very truly yours,

H. C. Hershey

HGH: AM

Enol.

May 8, 1950

Mayor John W. Rhodes LeGrand Iova

Dear Mr. Rhodest

3

i d

ä.,

Enclosed is a report on the mineral analysis of water from your 98-foot well, as shown by a sample collected by Mr. C. W. Lane on April 17, 1950.

This report does not show the sanitary condition of the well since it is impossible to make a bacteria count from a cample such as the one collected.

If you have any questions concerning this report, please do not healtate to let me hear from you.

Very truly yours,

numberal

H. G. Hershey

HGH:AM

Encl.