26621

Well Information—Drift Wells

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## Layne-Western Company, Inc. U. L. CLOLOCICAL SURVEY

## WATER SUPPLY CONTRACTORS

705 SO. DUFF AVE.

AMES, IOWA 50010

Phone 515 232-3563

Name of Job	City of Hartl	еу		Da	te7	-29-80	)
City or Village_	Hartley			Sta	te_Iow	a	
Well No.:4	Driller	s: Rich Pejsh	a				
Well Location:	Approx. 3970 ft.	(_W) and4	350 ft. (		N.E.		_corner of
Section 32	, Twp. 97 (	N_), Range39	(W)	O'Brien			_County.
Otherwise locate	ed as 31' s.w.	of the S.W. c	orner of the	filter build	ing		
	ll measurements n						
	a. Wt. or Thick	"					
410' 20'	.375	Steel pipe	_with_welded	_joints from	0	to _	410
500' 12'	.375	Steel pipe	_with_welded	_joints from	00	to _	500
Screen Record:	Type Layne J	ohnson 304	_				
Amount Dia	a. Opening	Material					
100' 12	.025	ss	with_welded_	_joints from_50	00'	to _	600'
			_with	_joints from		to _	
Type of Seal at B	ottom <u>ss plate</u>						
Hole Record:							
24"	inch from_	0	to41	0'			
19"	inch from_	410	to60	0'			
Gravel Pack Reco	ord:						
Amount	Size	Sou	ırce	Fro	m		To
14 ton	#0	Northern Sand	l & Gravel	400			600'
Cementing Recor	d: 0-410' - o	utside of 20" -	0-20' aroun	d the outside	of 12	71	
Backfill Record:	Sand & clay f	rom 20' to 400'	outside of	12"			

## WELL LOG

Feet		Feet	Description		
0	to .	2	Fill		
2	to .	22	Tan Loess		
22	to .	45	Gray clay till - Boulder at 31'		
45	to _	66	Blue gray clay till		
66	to _	93	Blue gray clay till w/streaks of gravel - Large boulder at 86		
93	to _	100	Coarse gray sand & gravel		
•			Blue gray clay till w/boulders		
			Large boulders		
129			Blue gray clay till w/boulders		
140	to _	* 144	Coarse gray gravel		
144	_ to _	163	Blue gray clay till w/streaks of gravel & boulders		
163	_ to _	192	Lighter blue gray w/boulders and streaks of gravel - Very large		
	_ to _				
192	to _	195	Coarse gravel boulder & clay		
195	to	199	Dark brown peat		
199	_ to _	201	Gray shaley clay		
201	_ to _	20,3	Gray and brown silty clay		
203	_ to _	210	Harder gray shaley clay - Large boulder at 205		
210 220	to	220 229	Gray clay till - Large boulder at 213 Gravel & boulder streaks of blue gray clay till - Large boulder at 229		
229	_ to _	243	Coarse gray sand & gravel & boulders		
243	_ to _	318	Very hard gray clay till		
318	_ to _	329	Dark gray shaley clay		
329	_ to _	332	Cemented coarse gray brown sand & gravel w/boulders		
Well Test	Data	a: Static I	Level 252; pumping level 291 after 30 hours pumping at 608 g.p.m.		
Length of	test_	30	hrs. See Well Test Data Sheet Dated 7-28 & 29-80		
REMARK	S:				

## WELL LOG

Feet		Feet	Description
332	to	336	Dark gray shaley clay w/lenses of gravel & boulder
336	to	340	Dray gray shale
340	to	341	Fine brown sandstone
341	to	365	Sandstone & shale
365	to	372	Sandstone
372	to	385	Sandstone & shale, mostly shale
385	to	421	Gray and brown sandstone - streaks of shale
421	to	435	Gray shale - thin streaks of sandstone
435	to	458	Gray & brown sandstone
458	to	469	Brown sandstone soft & hard streaks (taking water)
469	to	471	Gray brown shale
471	to	479	Gray sandstone - taking no water
479	to	555	Brown & gray sandstone (very rough drilling)
555	to	580	Brown sandstone (soft) lenses of shale
580	to	584	Gray shale
584	to	600	Coarse brown sandstone
	to		• · · · · · · · · · · · · · · · · · · ·
	to		
Well Tes	t Data:	Static	Level; pumping levelafterhours pumping atg.p.m.
Length o			_hrs. See Well Test Data Sheet Dated