

LW- 33

## Layne-Western Company, Inc.

## WATER SUPPLY CONTRACTORS

705 SO. DUFF AVE.

AMES, IOWA 50010

Phone 515 232-3563

Name of Job.	City Water	Departmen	t	Date	07/1	0/8	5
City or Village	Emmetsburg			State	Iowa		
Well No.: 5	Drillers:	Gale McIn	tosh				
Well Location:	ft. (_	) and	ft. (.	) of the	NE		_corner of
Section 25, Tw	p. 96 (N	_), Range	(_W_)	Palo Alto	)		_County.
Otherwise located as.	50 feet we	est of well	No. 3			1)	
Work Began: 07, All m Casing Record:	/01/85 Weasurements made						
Amount Dia. 28 16			with weld	_joints from	+5	to _	23
Angle Committee			_with	_joints from		to _	
Screen Record: Ty	pe Layne shu	itter	_				
Amount Dia. 10 16	Opening 5		_with_weld	_joints from	23	to _	33
			_with	_joints from		to _	
Type of Seal at Botton	m s.s. pla	ite		· · · · · · · · · · · · · · · · · · ·			
Hole Record:							
52	inch from	0	to5				
48	inch from	5	to35				
Gravel Pack Record:							
Amount	Size	So	urce	From	n		To
14 ton 1,	/8x1/4	Norther	n Gravel	20		e e	35
Cementing Record:	5 yards of	4000 lbs.	, ground 1	evel to 15'			(1) (-)
Backfill Record:	Bentonite	and clay,	15 to 20'				

SEE OTHER SIDE

Feet	Feet	Description #21000
	2	Black top soil
	4	Brown sand, very dirty
	8	Fine sand to medium gravel
	14	Sand to coarse gravel w/cobbles
	18 ,	Sand to medium gravel, brown, very clean
	22	Fine sand to medium gravel, gray
	22.5	Clay seam
22.5 to	32	Fine sand to coarse gravel w/boulders
32t	035	Gray till w/boulders
t	0	
t	o	
t	0	
t	0	
t	.0	
t	.0	
1	to	
	to	
	to	
	to	
57	to	635
		evel 5; pumping level 9 after 8 hours pumping at 635 g.p.m
Length of t		hrs. See Well Test Data Sheet Dated 07/10/85
Alaman and		