Ť	W-3994
IOWA GEOLOGICAL SURVEY In Cooperation with U. S. Geologic	
RECORD OF WELL	
Location: Town: <u>Postville</u> $(NE)$ : County <u>All</u> E.	lamakee
sec T N.,R W	Twp.
Well name and number Postville Town Well	1/ No. 1
Owner <u>Do</u> Addres	SS
Tenant Addres	
Contractor Layne - Western Co Addres	ss Ames
Drillers	•
Drilling dates Aug. 11 to Oct. 9,1	1949 DecPened 770:991
Well data: Elevations: Drilling curbfeet; Land surfa	
Determine 2.2	
Determined by Tepographic position	the second se
Total depth: Reportedfeet, Measured	
Drilling method	
Hole and casing date 615' of 8" pipe	from 0. 1. to 615'
	·
	···· ·· ···
	······································
Original depth to water 350 ft. below	Date
Original elevation of water levelft.; Source	ce of data
Sources of water: Principal 365	; Others

Static depth to water	350	Measurin			(Deneral
Pumping level	440	at	185	g.p.m.	
			- for some type of a some some		
			·····		
Specific capacity	g.p.m.	per ft. dr	awdown; Tempe	rature	or.
Pump data; Type pump Lap	me Turbineco	lumn Dia.	. 6" .	Length	
Pump data; Type pump Lay Cylinder or bowls: Di				tion pipe	
Power <u>Electric</u>		Airline			
Estimated rate of prod	uction:	4 . 4	g.p.m. fo	r hre	s. a day
Use of water			· · · · ·		1
	LIADE	DATATION	12		
Date samples	WAIL	K ALALISES	(in parts per	million)	
Sampled by					-
Fotal solids	·····				-
Insoluble matter			Sector Sector Sector Sector		-
Alkalinity (Meo)					
Alkalinity (Phn)					
Eg					
Fog03- Mn203-Al203					
Alkali as sodium					_
Jalcium					
Magaesium					
Iron (unfiltered)					-
Arrganese					
Vitoate					-
Plur >: Ade				and the second	
Daloraie	· · · ·				
Sulfate					
Bicarbonate				·	-
Hardness (ppm)					-
iai biess (gpg)					-
Remarks					
laboratory data:			Comple at one	in landting (	0 2-0
				ge location <u>C</u>	
Sample range 770-99					
Spls. prepared by <u>APC</u>		range <u>770</u>	-740	by APC.	
Driller's log and cond.	the second second second second				
Insoluble residues: Pre	epared by			Strip log	
Microscopic study	annuch	strip lo	B 7-2	1-10.	a

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W# 03994	W	1H	0	39	a	4	1	
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MINERAL NO. 3458 10 April 1962

LAB. NO.

1675

STATE	HYGIENIC	LABORATORY, DES MOINES BRANCH					
WATER LABORATORY DIVISION							
MINERAL ANALYSIS							

TOWN	Postville	COUNTY	Allamak	cee
OWNER OF SUPPLY	Town of Postville			
COLLECTOR'S NAME	Robert L Martindale			
DATE COLLECTED	Mar 8, 1962	DATE RECEIVED	Mar 12,	1962
REPORT TO: NAME	Division of Public H	lealth Engineering		
ADDRESS_	State Department of	Health		

## FIELD DATA

	South Well #1 Water	Plant, 993 ft	cement platform
Ν	lew Turbine Installed	Sept 5, 1940	
	HRS. AT 260 GPM		SAMPLE
	_ ALKALINITY (ppm CaCO <sub>3</sub> ) P		рН

LABORATORY	ANALYSIS
(PARTS PER	MILLION)

SPECIFIC CONDUCTANCE	K AT 25°C	100	× 10 <sup>-1</sup>	5. TURBIDI	TY	
DISSOLVED SOLIDS	631		S	OLUBLE IR	DN (Fe)	3.7
TOTAL SOLIDS	631	SILICA (SIO			TOTAL IRON (Fe)	
ALKALINITY (ppm CaCO3)	P None	T 501	рн.	7.25	DATE Ma	r 12, 1962
POSITIVE IONS					IVE IONS	
К+	2.8			NO3-	$a_{sN} \leq 0.1$	
Na +	11.4			F-	0.2	
Ca++	156	а 1		CI		
Mg++	44.0	-		SO4		
Mn + +	0.1	5		HCO3-	611	
AI + + +				CO3	_ None	
		-				
HARDNESS AS COCO3	570		ppm	33.3	gpg .	
	Turbid, y				gpg .	
					· · · · · · · · · · · · · · · · · · ·	
	bort				P I MOD	
ANALYST Ryan, E	Dert				R. L. MORI	

PRINCIPAL CHEMIST