Towa Department of Natural Resources Geological Survey Bureau 109 Trowbridge Hall, Iowa City, IA 52242-1319 PH (319) 335-1575

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WELL RECORD

50376 Permit No. _____

Site identification	Drill method rotary auger cable other		
Property Owner <u>City of ChSlow</u> Well Number	Hole size hole size continued		
Address Orslaw, Jowa	14 inch from 0 ft 127 ft 13 inch from 27 ft to 16 ft		
Tenant	Sinch from 27 tt to 320 inch fromft toft		
Well Depth <u>320</u> tt Date completed <u>5</u> / <u>20</u> / <u>99</u>	Record all depth measurements from ground level (GL). Use (+) for above GL measurements.		
Location County_Ones	Casing Drive shoe (yes / no) Pitess adapter (yes / no)		
	Size (ID/DD) Type / Wt Depth top Depth bottom Amount (length)		
mi. N andi. E of intersection of and	14" Strel +2, 127 129		
1/4 01 0181/4 01 0181/4 01 Sec1WPRH0W	83" - 5410 + 2 145 147'		
Show exact location of well in section grid with a dot (6.1" NC: 140. 000 180		
	Performed as along a contract of Cit/ Althous		
	Perforated or slotted casing? (ver PIC ULLI		
	Perforated stotted tom 100 th to 100 (76)		
│	Perforated / slotted thom 285' ti -to 340-2,70'		
S 200 ft	Casing grouted? (Ves)no) Placement method		
upland hillside valley Elevation (if known)	Type Depth Top Depth bottom Amount (vol/wt)		
Formation log	Neat Cement O' 1271' 80. sacts		
From To Color Hardness Formation description	Basia 6 Sacts		
0'21' Brown Clay	Well screen? West Depth Top Depth Bottom Length Material		
21' 42' Blue Clay			
42' 55' Gravel	O		
55' 123' Blue Clay	Bottom capped (yes / no) with		
123' 1.58' Limerock	Seals / Packers (yes / no) kind depthft		
158' 180' Limerock	Gravel packed (yes / no) fromft toft		
180' 188' Limerock	typeamount		
18811931 Oan. Mater	Well developed? (ves Dio) Explain Air Lift: 40 GPM at 140', 50 GPM at 160'		
193 285' Limtrock			
285' 318' Gray Rock	(pumped, airlifted, bailed) for hrs at GPM. Pump installed? (yes/no) Date//		
	Installer's name		
310.3.0. Shale.	Type of pump Depth to intakeft		
	Pump diameter Rated capacity GPM		
	Water information Aquifer: Sand/gravel Stimestone sandstone		
	Main water-supply zone fromft toft 🖸 seepage well		
	Static water level free below above) GL: tape airline E-line estimate		
	At yield ofGPM;		
use additional sheets as needed	Measurements taken at (AM / PM) Date / /		
Remarks (Including depth of lost drilling fluids, materials, or tools)	Emila		
test amoud for BLIMPS.	Tested by CLASTON (UPS no), Date tested Des 149		
Well use	contractor shalwer well Company		
Domestic Municipal Commercial	Address Frederictsburg, TA 50630		
Livestock Public supply Monitoring Test well Intragation Other (emistin)	Driller_limBuntingCertification no. 40121		

white copy - Iowa DNR, Geological Survey Bureau

yellow copy - County Health Officer 297971-DQ $\overline{}$

W-50376 - 50376

wner nam econd pa ddreas ddreas :ity/sta	ame 1 2	9905130 CITY OF ONSLOW JIM BOUSLEY 4155 PENNSYLVANIA AVENUE IIW ENGINEERS & SURVEYORS			
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ip		ONSLON, IA			
		52321			
county JONE		Jones			
township		WYOMING	WYOMING		
section		07			
quarters	\$	NW			
startdat		05/10/99			
enddate		05/20/99			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		LOG OF WELL			
נייס	ro 21	BROWN CLAY			
21' 7	ro 42				
42' 1	ro 55				
55' 1	ro 12:				
123' 1	ro 15				
158'	-	MADE 20 GPM			
	••	0' LIMEROCK			
		8' LIMEROCK			
~ • •	••	3' OPEN, WATER			
	TO 28	5' LIMEROCK WATER			
285'	no 31	8' GRAY ROCK			
		0' SHALE			
318'	TO 32				
		DESCRIPTION OF WELL			
ELEVATT	ON: 919'		~		
A 14 3/	AR NOTE B	AS DRILLED TO 127' AND 129' OF 14" OD STEEL CASIN	UP.		
		AN ENNELADE OF BENSEAL GROUT WAS FULLED DUINDUN -			
1 m	OBSTNC C	THE 14.75" BOREHOLE. AN 8" HOLE WAS THEN DRILLED DLE WAS THEN REAMED TO 13" FROM 127' TO 145'. 147	, 		
TO 320'					

OF 8 5/8" X .322 WALL STEEL CASING WAS INSTALLED FROM 2' ABOVE GROUND LEVEL TO 145'. THE 8" CASING WAS PRESURE GROUTED IN PLACE WITH 80 SACKS OF NEAT CEMENT GROUT. 6/9/99 - The well is then cased from 140' to 320' with 6.9" SDR 21 casing. The 6.9" casing is perforated at 158', 180'-198', 285' and from 240'-270' to admit water.

FIELD TEST:NITRATE <1, IRON 1

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swl 51

rps 150'

water test info

BOREHOLE DATA

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50376

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0'	TO	127'	14 3/4" DIAMETER
127'	TO	320	8" DIAMETER 13" DIAMETER
127'	TÓ	145'	15" DIAMBIER

driller JIM BUNTING