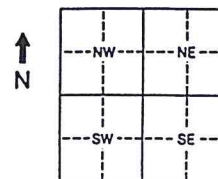




FARGO, N.D.
HUTCHINSON, MN.



Sec. _____ T _____ R _____

DRILLERS LOG

Drilled for Orange City, Iowa By Fargo Office _____
 Location of Test Hole Approx. 1000' E. of existing 8" well, Junction of Hickory & 500th
 Test Hole No. 1-93 Well No. 14" 1-93
 Size of test hole 6 3/4 Date started 7-28-93 Date completed 7-29-93 Total Hours 22

FORMATIONS DRILLED

TYPE OF FORMATION	COLOR OF FORMATION	STARTED AT WHAT DEPTH	ENDED AT WHAT DEPTH	THICKNESS OF FORMATION
Top soil	black	G.L.	7'	7'
sand and gravel 35+	brown	7'	25'	18'
sandy clay (hard)	grey	25'	29'	4'
sandy clay	grey	29'	63'	34'
dirty sand w/lenses of clay	grey	63'	80'	17'
very sandy clay	grey	80'	203'	123'
sand w/lenses of clay	grey	203'	217'	14'
very sandy clay	grey	217'	274'	57'
very sandy shale w/lenses of sandstone	grey	274'	298'	24'
dirty sand stone (took water) w/lenses of shale	grey	298'	318'	20'
sandstone (took water)	grey	318'	331'	13'
shale	grey	331'	333'	2'
sandstone (took water)	grey	333'	341'	8'
shale	grey	341'	347'	6'
sandstone (took water) drilled good	grey	347'	386'	39'
shale	grey	386'	388'	2'
sandstone	grey	388'	393'	5'
sandstone w/lenses of shale	grey	393'	403'	10'
sandstone (drilled fair) took water	grey	403'	454'	51'
sandstone w/lenses of shale	grey	454'	462'	8'
shale	grey	462'	468'	6'

Signed Don L. Hejtmanek Driller