

Layne-Western Company

4430 Commercial Avenue

Omaha, Nebraska

TEST WELL REPORT

City and State Maurice, Iowa Date 6-26-79
Contract So. Sioux Co. R.W.D. Driller Donald Oseka
Test No. #79-1 Helpers Brad Harris
Static Water Level 40' after pumping Drilling 6" hole, set 10' of 6" casing

Test Log

0	-	13'	Brown sandy clay
13'	-	32'	Gravel and coarse sand, buff color
32'	-	47'	Coarse sand and fine sand, buff color
47'	-	59'	Gravel and coarse sand, buff color
59'	-	60'6"	Boulder, rough
60'6"	-	65'	Blue clay and boulders
65'	-	77'	Brown clay sticky
77'	-	92'	Gray clay
92'	-	121'	Blue clay
121'	-	134'	Very fine Dakota sandstone
134'	-	135'	Very fine Dakota sandstone, very hard
135'	-	137'	Blue shale
137'	-	140'	Blue shale and sandstone streaks
140'	-	147'	Shaley sandstone
147'	-	152'	Blue shale
152'	-	171'	Fine Dakota sandstone
171'	-	173'	Fine Dakota sandstone, hard

Size Mud Pit—Length , Width , Depth

WATER BEARING FORMATION DATA

Depth	Mud Viscosity	Inches Mud Taken from Pit	Drilling Time
35' to 60'6"	39 Sec.	2	
121' to 135'	36 Sec.	1	
137' to 147'	36 Sec.	3/4	
152' to 175'	36 Sec.	1½	
175' to 183'	36 Sec.	1¼	
211' to 230'	36 Sec.	1½	
231' to 242'	36 Sec.	½	

LOCATION:

REMARKS:

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173'	-	175'	Shaley sandstone
175'	-	182'	Blue shale, trace sandstone streaks
182'	-	183'	Sandstone, hard
183'	-	194'	Blue shale
194'	-	195'	Sandstone
195'	-	211'	Blue shale
211'	-	217'	Shaley sandstone
217'	-	230'	Fine Dakota sandstone
230'	-	231'	Blue shale
231'	-	242'	Shaley sandstone
242'	-	245'	Blue shale
245'	-	250'	Dakota sandstone
250'	-	252'	Blue shale
252'	-	287'	Shaley sandstone
287'	-	352'	Blue shale trace sandstone
352'	-	355'	Dakota sandstone, med. size
355'	-	356'	Dakota sandstone, very hard
356'	-	399'	Dakota sandstone, med. size.

Size Mud Pit—Length

, Width

, Depth

WATER BEARING FORMATION DATA

Depth	Mud Viscosity	Inches Mud Taken from Pit	Drilling Time
245' to 287'	36 Sec.	2	
352' to 367'	36 Sec.	2	
367' to 382'	36 Sec.	2½	
382' to 397'	36 Sec.	3	
397' to 412'	36 Sec.	2	
412' to 427'	36 Sec.	2½	
427' to 445'	36 Sec.	3½	

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399'	-	400'	Limestone
400'	-	437'	Dakota sandstone, med. size.
437'	-	445'	Shaley sandstone
445'	-	448'	Shaley limestone
448'			Limestone, hard

Size Mud Pit--Length, Width, Depth

WATER BEARING FORMATION DATA

Depth	Mud Viscosity	Inches Mud Taken from Pit	Drilling Time
to			
to	Electric logged to 447'.	P-5 R-10	
to	Set 435' of 3" plastic casing, bottom 80' screen installed pea gravel.		
to			
to			
to			
to			

LOCATION:

REMARKS: Estimated capacity - 800 to 1000 GPM