Airline at 845'

#17

PUMP TEST RECORD

THORPE WELL COMPANY, BOX 1376, DES MOINES, IOWA

For City of Fort Dodge Located at Fort Dodge

Make, Kind and Size of Power Cat - Diesel - D-353 - 490 R.P.

Bowl No. _____ Size 13 3/8 Stages 3

Column Setting 350 ft. Size 8" Shaft size 1 7/16 and _____

Static Level Before Pumping 160' After Pumping _____ Temperature _____

Date	Time	Engine R.P.M.	Pump R.P.M.	Pumping Level	Gallons Per. Min.	Temp. Discharge Description	Sand P.P.M. Volume
9/3/70	4:30PM	850	1700	212	1873	Clear	
	5:00	850	1700	219	1873	There is "	
THURSDAY	6:00	850	1700	227	1873	approx 50 to 75 GPM loss in leaks "	Slight trace
	7:00	850	1700	228	1873	at weir box & discharge "	sand "
	8:00	850	1700	235	1873	connections "	"
	9:00	850	1700	237	1873	"	"
	10:00	850	1700	240	1873	" "	"
	10:30	900	1800	255	1946	" "	"
	11:00	900	1800	259	1946	" "	"
	11:30	900	1800	262	1946	" "	"
	12:00Mid	900	1800	262	1946	" "	"
9/4/70	1:00AM	900	1800	265	1946	" "	"
	2:00	900	1800	266	1946	" "	"
	3:00	900	1800	267	1946	" "	"
FRIDAY	4:00	900	1800	268	1946	" "	"
	5:00	890	1780	270	1873	" "	"
	6:00	890	1780	270	1873	" "	"
	7:00	900	1800	270	1946	" "	"
	8:00	900	1800	270	1946	" "	"
	9:00	925	1850	270	1946	" "	"
	10:00	925	1850	270	1873	" "	"
	11:00	925	1850	270	1873	" "	"

Airline at 345'

#17

PUMP TEST RECORD

THORPE WELL COMPANY, BOX 1376, DES MOINES, IOWA

For City of Ft. Dodge Located at Ft. Dodge, IOwa

Make, Kind and Size of Power Cat - Diesel - D-353 - 490 H.P.

Bowl No. _____ Size 13 3/8 Stages 3

Column Setting 350 ft. Size 8" Shaft size 1 7/16" and _____

Static Level Before Pumping 160' After Pumping _____ Temperature _____

Date	Time	Engine R.P.M.	Pump R.P.M.	Pumping Level	Gallons Per. Min.	Temp. Discharge Description	Sand P.P.M. Volume
9/4/70	12:00	925	1850	272	1873	Approx 50 to 75 GPM leak in connections & Weir Box	Clear with slight trace sand
	1:00PM	1050	2100	293	2240		
	1:10	1050	2100	300	2240		Water cloudy
	1:30	1050	2100	297	2166		Approx 4 times more sand
	2:00	1050	2100	301	2166		
	3:00	1050	2100	303	2166	Clearing	Less sand
	4:00	1050	2100	304	2166	"	"
	5:00	1050	2100	304+	2166	"	Trace "
	6:00	1050	2100	305	2166	"	Trace of sand
	7:00	1050	2100	305	2166	Clear	
	8:00	1050	2100	305+	2166	"	"
	9:00	1050	2100	306	2166	"	"
	10:00	1050	2100	306+	2166		
	11:00	1050	2100	307	2166	"	"
	12:00	1050	2100	307+	2166		
9/5/70	1:00	1050	2100	307+	2166		
	2:00	1050	2100	307+	2166		
	3:00	1050	2100	307+	2166		
	4:00	1050	2100	307+	2166		
	5:00	1050	2100	307+	2166		
	6:00	1050	2100	307+	2166		
	7:00	1050	2100	307+	2166		

TP2299 Filters - Gibbs Cook Night No 6-5810

For City of Ft. Dodge Located at Ft. Dodge

Date	Time	Engine R.P.M.	Pump R.P.M.	Pumping Level	Gallons Per.Min.	Temp. Discharge Description	Sand P.P.M. Volume
9/5/70	8:00	1050	2100	307+	2166	Clear	Trace Sand
	9:00	1050	2100	307+	2166	Clear	Trace Sand
	10:00	1050	2100	307	2166		
	11:00	1050	2100	307	2166	"	"
SAT	12:00	1050	2100	309	2166	"	"
	1:00PM	1050	2100	309	2166	"	"
RUN	2:00	1050	2100	309	2166	"	"
	3:00	1050	2100	309	2166	"	"
	4:00	1050	2100	309	2166	"	"
	5:00	1050	2100	309	2166	"	"
	6:00	1050	2100	309	2166	"	"
	7:00	1050	2100	309	2166	"	"
	8:00	1050	2100	309	2166	"	"
	9:00	1050	2100	309	2166	"	"
	10:00	1050	2100	309	2166	"	"
	11:00	1050	2100	309	2166	"	"
	12:00	1050	2100	309	2166	"	"
9/6/70	1:00AM	1050	2100	309	2166	"	"
	2:00	1050	2100	309	2166		
	3:00	1050	2100	309	2166		
	4:00	1050	2100	309	2166		
SUN	5:00	1050	2100	309	2166		Trace of Sand
	6:00	1050	2100	309	2166	Clear	
DAY	7:00	1050	2100	309	2166		
	8:00	1050	2100	309+	2166		
	9:00	1050	2100	309+	2166		
	10:00	1050	2100	309+	2166		
	11:00	1050	2100	309+	2166		
	12:00	1050	2100	310	2166		

Some surge in motor

For City of Ft. Dodge Located at Ft. Dodge, Iowa

Date	Time	Engine R.P.M.	Pump R.P.M.	Pumping Level	Gallons Per.Min.	Temp. Discharge Description	Sand P.P.M. Volume
9/6/70	1:00PM	1050	2100	310	2166	Loss of 50 to 75 GPM	
	2:00PM	1050	2100	310	2166	Clear " "	Trace sand
	3:00	1050	2100	310	2166	" "	" "
SE	3:30	1050	2100	313	2166	" "	" "
2	4:00	1050	2100	313	2166	" "	" "
	5:00	1050	2100	313	2166	" "	" "
U	6:00	1050	2100	313	2166	" "	" "
D	7:00	1050	2100	313	2166	" "	" "
	8:00	1050	2100	313	2166	" "	" "
	9:00	1050	2100	315	2166	" "	" "
	10:00	1050	2100	315	2166	" "	" "
	11:00	1050	2100	315	2166	" "	" "
	12:00	1050	2100	316	2166	" "	" "
9/7/70	1:00AM	1050	2100	316	2166	Clear	Trace sand
	2:00	1050	2100	316	2166	"	"
	3:00	1050	2100	316+	2166	"	"
	4:00	1050	2100	316+	2166	"	"
	5:00	1050	2100	317	2166	"	"
	6:00	1050	2100	317	2166	"	"
3	7:00	1050	2100	317+	2166	"	"
0	8:00	1050	2100	318	2166	"	"
U	9:00	1050	2100	318	2166	"	"
D	10:00	1050	2100	318+	2166	"	"
	11:00	1050	2100	319	2166	"	"
	12:00	1050	2100	319	2166	"	"
	1:00PM	1050	2100	319	2166	"	"
	2:00	1050	2100	319	2166	"	"
	3:00	1050	2100	319	2166	"	"

For City of Ft. Dodge Located at Ft. Dodge, Iowa

Date	Time	Engine R.P.M.	Pump R.P.M.	Pumping Level	Gallons Per.Min.	Temp. Discharge Description	Sand P.P.M. Volume
9/7/70	4:00PM	1050	2100	319	2166	Loss of 50 to 75 GPM Clear	Trace sand
	5:00	1050	2100	319	2166	"	" "
	6:00	1050	2100	319	2166	"	" "
	7:00	1050	2100	319	2166	"	" "
Mon	8:00	1050	2100	319	2166	"	" "
	9:00	1050	2100	319	2166	"	" "
Night	10:00	1050	2100	319	2166	"	" "
	11:00	1050	2100	319	2166	"	" "
	12:00	1050	2100	319	2166	"	" "
9/8/70	1:00AM	1050	2100	319	2166	Clear	Trace sand
	2:00	1050	2100	319	2166	"	" "
	3:00	1050	2100	319+	2166	"	" "
	4:00	1050	2100	319+	2166	"	" "
	5:00	1050	2100	320	2166	"	" "
	6:00	1050	2100	320	2166	"	" "
	7:00	1050	2100	320+	2166	"	" "
Tues	8:00	1050	2100	320+	2166	"	" "
	9:00	1050	2100	321	2166	"	" "
	10:00	1050	2100	321	2166	Cut back motor (1750 GPM)	
	10:30	975	1950	293	1696	Losing Approx 50 GPM in weir box & discharge	
Day	11:00	975	1950	292	1696		
	12:00	975	1950	289	1696	Clear	Slight trace sand
	1:00PM	975	1950	288	1696	"	"
	1:45	1050	2100	299	2166	"	"
	2:00	1050	2100	307	2166	"	Trace sand
	2:30	1050	2100	313	2166	"	"
	3:00	1050	2100	313	2166	"	"
	4:00	1050	2100	313	2166	"	"

For City of Ft. Dodge Located at Ft. Dodge, Iowa

Date	Time	Engine R.P.M.	Pump R.P.M.	Pumping Level	Gallons Per.Min.	Temp. Discharge Description	Sand P.P.M. Volume
9/8/70	5:00	1050	2100	316	2166	Clear	Trace sand
	6:00	1050	2100	317	2166	"	"
	7:00	1050	2100	317	2166	"	"
	8:00	1050	2100	320	2166	"	"
	9:00	1050	2100	320	2166	"	"
	10:00	1050	2100	317	2166	"	"
	11:00	1050	2100	317	2166	"	"
	12;00	1050	2100	318	2166	"	"
9/9/70	1:00AM	1050	2100	318	2166	Clear	Trace of sand
	2:00	1050	2100	318	2166	"	"
	3:00	1050	2100	318	2166	"	"
	4:00	1050	2100	318	2166	"	"
	5:00	1050	2100	318	2166	"	"
	6:00	1050	2100	319	2166	"	"
	7:00	1050	2100	319	2166	"	"
	8:00	1050	2100	319	2166	"	"
	9:00	1050	2100	319+	2166	"	"
	10:00	1050	2100	319+	2166	"	"
	11:00	1050	2100	319+	2166	"	"
	12:00	1050	2100	319	2166	"	"
	1:00PM	1050	2100	319	2166	"	"
	2:00	1050	2100	319	2166	"	"
	3:00	1050	2100	319	2166	"	"
	3:15	Pump off		273'	Static		
	3:40			268'	"		
	4:00			225'	"		
	6:30			201	"		
	8:00			190	"		
9/10/70	8:00AM			181	"		