State Geological Survey

VARNER WELL & PUMP CO.

DUBUQUE, IOWA

FEB 26 1976

WELL TEST DATA SHEET

Job: Well #3

Location: Altoona, Iowa

Date tested: February 26, 1976

Tested by: Bud Gatewood

Dia. of well: 12⅛"

Depth of well: 2533'

Length of airline: 502'

Non-pumping level: 307'

Orifice size: 10 x 6½

Pump used: Driver: 16V71 GMC Diesel with 3:4 Peerless gear

Column and shaft: 8 x 1½

Bowls: 8 stage

Manufacturer: Peerless

Serial No.: None

SWL

TIME	PIZOMETER READING (IN.)	G. P. M.	AIR GAUGE READING (FEET)	PUMPING LEVEL	DRAWDOWN	DISCH. PRESSURE		TOTAL PUMPING HEAD	TEMP.	REMARKS
						LBS.	FEET			
8:15 AM	0	0	190'	312'	0		0			START OF TEST
8:20	9"	500	185	317	5					
8:25	10	525	185	317	5					
8:30	9	500	185	317	5					
8:35	9	500	185	317	5					
8:40	9	500	185	317	5					
8:45	9	500	185	317	5					
8:50	13	600	184	318	6					
8:55	13	600	184	318	6					
9:00	13	600	185	317	5					
9:05	13	600	185	317	5					
9:10	13	600	185	317	5					
9:15	13	600	185	317	5					
9:20	18	700	184	318	6					
9:25	18	700	184	318	6					
9:30	18	700	184	318	6					
9:35	18	700	184	318	6					
9:40	18	700	184	318	6					
9:45	18	700	184	318	6					
9:50	24	800	183½	318½	6½					Increase pump
9:55	24	800	183	319	7					
10:00	24	800	183	319	7					
10:05	24	800	183	319	7					
10:10	24	800	183	319	7					
10:15	24	800	183	319	7					
10:20	30	900	182	320	8					Increase GPM

VARNER WELL & PUMP CO.
DUBUQUE, IOWA

WELL TEST DATA SHEET

Job: Well #3
Location: Altoona, Iowa

Date tested: February 16, 1976
Tested by: Bud Gatewood

Dia. of well: 12¼"
Depth of well: 2533'
Length of airline: 502'
Non-pumping level: 307'
Orifice size: 10 x 6½

Pump used:
Driver: 16V71 GMC Diesel with 3:4 Peerless gear
Column and shaft: 8 x 1½
Bowls: 8 stage
Manufacturer: Peerless
Serial No.: None

TIME	PIZOMETER READING (IN.)	G. P. M.	AIR GAUGE READING (FEET)	PUMPING LEVEL	DRAWDOWN	DISCH. PRESSURE		TOTAL PUMPING HEAD	TEMP.	REMARKS
						LBS.	FEET			
	O	O			O		O			START OF TEST
10:25	30	900	182	320	8					
10:30	30	900	182	320	8					
10:35	30	900	181	321	9					
10:40	30	900	181	321	9					
10:45	30	900	181	321	9					
10:50	37	1000	178	324	12					Increase GPM
10:55	37	1000	178	324	12					
11:00	37	1000	178	324	12					
11:05	37	1000	178	324	12					
11:10	37	1000	178	324	12					
11:15	37	1000	178	324	12					
11:20	44	1100	175	327	15					Increase GPM
11:25	44	1100	175	327	15					
11:30	44	1100	175	327	15					
11:35	44	1100	175	327	15					
11:40	44	1100	175	327	15					
11:45	44	1100	175	327	15					
11:50	53	1200	174	328	16					Increase GPM
11:55	53	1200	174	328	16					
12:00 PM	53	1200	174	328	16					
12:05	53	1200	174	328	16					
12:10	53	1200	174	328	16					
12:15	53	1200	174	328	16					
12:20	61	1300	172	330	18					Increase GPM
12:25	61	1300	172	330	18					

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WELL TEST DATA SHEET

Job: Well #3
Location: Altoona, Iowa

Date tested: February 16, 1976
Tested by: Bud Gatewood

Dia. of well: 12¼"
Depth of well: 2533'
Length of airline: 502'
Non-pumping level: 307'
Orifice size: 10 x 6½

Pump used:
Driver: 16V71 GMC Diesel with 3:4 Peerless gear
Column and shaft: 8 x 1½
Bowls: 8 stage
Manufacturer: Peerless
Serial No.: None

TIME	PIZOMETER READING (IN.)	G. P. M.	AIR GAUGE READING (FEET)	PUMPING LEVEL	DRAWDOWN	DISCH. PRESSURE		TOTAL PUMPING HEAD	TEMP.	REMARKS
						LBS.	FEET			
	o	o			o		o			START OF TEST
12:30	61	1300	172	330	18					
12:35	61	1300	172	330	18					
12:40	61	1300	172	330	18					
12:45	61	1300	172	330	18					
12:50	67½	1400	171	331	19					Increase GPM
12:55	67½	1400	171	331	19					
1:00	67½	1400	171	331	19					
1:05	67½	1400	171	331	19					
1:10	67½	1400	171	331	19					
1:15	67½	1400	171	331	19					
1:20	77½	1500	169	333	21			Increa		Increase GPM
1:25	77½	1500	169	333	21					
1:30	77½	1500	169	333	21					
1:35	77½	15-0	169	333	21					
1:40	77½	1500	169	333	21					
1:45	77½	1500	169	333	21					
1:50	67½	1400	170	332	20					Decrease GPM
1:55	67½	1400	171	331	19					
2:00	67½	1400	171	331	19					
2:05	67½	1400	171	331	19					
2:10	67½	1400	171	331	19					
2:15	67½	1400	171	331	19					
2:20	61	1300	172	330	18					Decrease GPM
2:25	61	1300	172	330	18					
2:30	61	1300	172	330	18					

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WELL TEST DATA SHEET

Job Well #3
Location Altoona, Iowa

Date tested February 16, 1976
Tested by Bud Gatewood

Dia. of well 12¼"
Depth of well 2533'
Length of airline 502'
Non-pumping level 307'
Orifice size 10 x 6⅛

Pump used: Driver 16V71 GMC Diesel with 3:4 Peerless gear
Column and shaft 8 x 1⅛
Bowls 8 stage
Manufacturer Peerless
Serial No. None

TIME	PIZOMETER READING (IN.)	G. P. M.	AIR GAUGE READING (FEET)	PUMPING LEVEL	DRAWDOWN	DISCH. PRESSURE		TOTAL PUMPING HEAD	TEMP.	REMARKS
						LBS.	FEET			
	O	O			O		O			START OF TEST
2:35	61	1300	172	330	18					
2:40	61	1300	172	330	18					
2:45	61	1300	172	330	18					
2:50	53	1200	174	328	16					Decrease GPM
2:55	53	1200	174	328	16					
3:00	53	1200	174	328	16					
3:05	53	1200	174	328	16					
3:10	53	1200	174	328	16					
3:15	53	1200	174	328	16					
3:20	45	1100	175	327	15					Decrease GPM
3:25	45	1100	175	327	15					
3:30	45	1100	175	327	15					
3:35	45	1100	175	327	15					
3:40	45	1100	175	327	15					
3:45	45	1100	175	327	15					
3:50	37	1000	177	325	13					Decrease GPM
3:55	37	1000	177	325	13					
4:00	37	1000	177	325	13					
4:10	37	1000	177	325	13					
4:15	37	1000	177	325	13					
4:20	30	900	180	322	10					Decrease GPM
4:25	30	900	181	321	9					
4:30	30	900	181	321	9					
4:35	30	900	181	321	9					
4:40	30	900	181	321	9					

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Location: Altoona, Iowa
Date tested: February 16, 1976
Tested by: Bud Gatewood

Dia. of well: 12¼"
Depth of well: 2533'
Length of airline: 502'
Non-pumping level: 307'
Orifice size: 10 x 6½

Pump used:
Driver: 16V71 GMC Diesel with 3:4 Peerless gear
Column and shaft: 8 x 1½
Bowls: 8 stage
Manufacturer: Peerless
Serial No.: None

TIME	PIZOMETER READING (IN.)	G. P. M.	AIR GAUGE READING (FEET)	PUMPING LEVEL	DRAWDOWN	DISCH. PRESSURE		TOTAL PUMPING HEAD	TEMP.	REMARKS
						LBS.	FEET			
	o	o			o		o			START OF TEST
4:45	30	900	181	321	9					
4:50	24	800	183	319	7					Decrease P.R.
4:55	24	800	183	319	7					
5:00	24	800	183	319	7					
5:05	24	800	183	319	7					
5:10	24	800	183	319	7					
5:15	24	800	183	319	7					
5:20	18	700	184	318	6	1				Decrease GPM
5:25	18	700	184	318	6					
5:30	18	700	184	318	6					
5:35	18	700	184	318	6					
5:40	18	700	184	318	6					
5:45	18	700	184	318	6					
5:50	13	600	185	317	5					Decrease GPM
5:55	13	600	185	317	5					
6:00	13	600	185	317	5					
6:05	13	600	185	317	5					
6:10	13	600	185	317	5					
6:15	13	600	185	317	5					
6:20	9	500	185	317	5					Decrease GPM
6:25	9	500	185	317	5					
6:30	9	500	185	317	5					
6:35	9	500	185	317	5					
6:40	9	500	185	317	5					
6:45	9	500	185	317	5					

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WELL TEST DATA SHEET

Job: Well #3
Location: Altoona, Iowa

Date tested: February 16, 1976
Tested by: Bud Gatewood

Dia. of well: 12½"
Depth of well: 2533'
Length of airline: 502'
Non-pumping level: 307'
Orifice size: 10 x 6½

Pump used:
Driver: 16V71 GMC Diesel with 3:4 Peerless gear
Column and shaft: 8 x 1½
Bowls: 8 stage
Manufacturer: Peerless
Serial No.: None

TIME	PIZOMETER READING (IN.)	G. P. M.	AIR GAUGE READING (FEET)	PUMPING LEVEL	DRAWDOWN	DISCH. PRESSURE		TOTAL PUMPING HEAD	TEMP.	REMARKS
						LBS.	FEET			
	0	0			0		0			START OF TEST
6:50	48.4	1150	174	328	16					Raise pumping rate
6:55	53	1200	172	330	18					
7:00	53	1200	172	330	18					
7:15	53	1200	172	330	18					
7:30	53	1200	172	330	18					
7:45	53	1200	172	330	18					
8:00	53	1200	172	330	18					
8:30	53	1200	172	330	18					
9:00	53	1200	172	330	18					
9:30	53	1200	172	330	18					
10:00	53	1200	172	330	18					
10:30	53	1200	172	330	18					
11:00	53	1200	172	330	18					
11:30	53	1200	172	330	18					
12:00 AM	53	1200	172	330	18					
12:30	53	1200	172	330	18					
1:00	53	1200	172	330	18					
1:30	53	1200	172	330	18					
2:00	53	1200	172	330	18					
2:30	53	1200	172	330	18					
3:00	53	1200	172	330	18					
3:30	53	1200	172	330	18					
4:00	53	1200	172	330	18					
4:30	53	1200	172	330	18					
5:00	53	1200	172	330	18					

VARNER WELL & PUMP CO.

DUBUQUE, IOWA

WELL TEST DATA SHEET

Job Well #3

Location City of Altoona, Iowa

Date tested February 17, 1976

Tested by Bud Gatewood

Dia. of well 12¼"

Depth of well 2533'

Length of airline 502'

Non-pumping level 307'

Orifice size 10 x 6½

Pump used: Driver 16V71 GMC Diesel with 3:4 Peerless gear

Column and shaft 8 x 1½

Bowls 8 stage

Manufacturer Peerless

Serial No. None

TIME	PIZOMETER READING (IN.)	G. P. M.	AIR GAUGE READING (FEET)	PUMPING LEVEL	DRAWDOWN	DISCH. PRESSURE		TOTAL PUMPING HEAD	TEMP.	REMARKS
						LBS.	FEET			
	0	0			0		0			START OF TEST
5:30	53	1200	172	330	18					
6:00	53	1200	172	330	18					
6:30	53	1200	172	330	18					
7:00	53	1200	172	330	18					
7:30	53	1200	172	330	18					
8:00	53	1200	172	330	18					
8:30	53	1200	172	330	18					
	WELL RECOVERED BACK TO 312' IN 2 MINUTES.									