

**IDAHO DEPT OF
WATER RESOURCES**

Fax

To: VIC CONRAD -
JR SIMPLOT & CO

From: DANIEL A. NELSON

Fax: (208) 389-7515

Pages: 7 PAGES PLUS COVER PAGE

Phone:

Date: 10/03/00

Re: CRANE CREEK COUNTRY
CLUB APPLICATION FOR
PERMIT

CC:

Urgent x **Review** **Please Comment** **Please Reply**

● **Comments:**

Vic,

Enclosed is all the information that our office has on the Crane Creek Country Club wells. There may be more information available in our State Office files. If you need more than this contact our vault at 327-7945 and request the information. We currently have a temporary employee working the vault, so if can't reach anyone at the that number try calling Karilynn Townsend at 327-7941. I hope this helps

If you have any further questions please contact us at the address below.

IDAHO DEPARTMENT OF WATER RESOURCES
2735 AIRPORT WAY
BOISE, ID 83705-5082

Thank you for your patience and cooperation.

MICROFILMED

JAN 31 2001



Crane Creek Country Club Back Nine Well: Pumping Level v. Discharge Rate

Measurements taken on April 16, 1996. Discharge into Back Nine pond. Pump setting is 305 feet.
Datum for water-level measurements 1 ft. above ground-level.

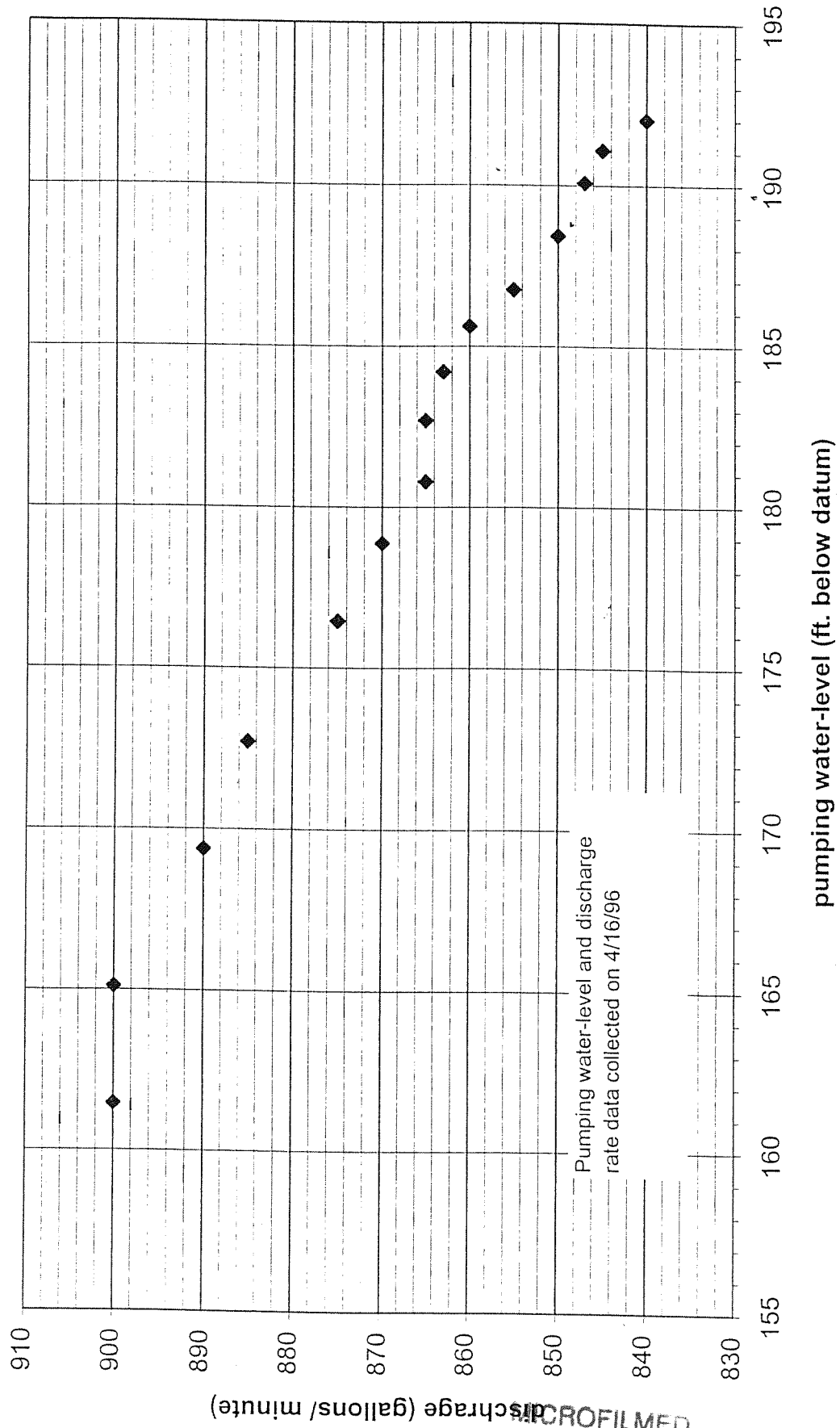
Time (hours)	Discharge Rate (GPM)	Water-Level (feet below datum)	Cumulative Reading (x 100 Gal.)	Comments
9:00		100.55 static water-level	136,305.5	Begin pumping: elapsed time = 0* Pond-level is 3 feet below maximum
9:03				Note: air-vent in discharge line must be covered to obtain correct GPM reading
9:04	950			
9:06	900	161.45		
9:07	900	165.10		
9:09				
9:11	890	169.37		
9:16	885	172.70		
9:18	880			
9:27	875	176.45		
9:38	870	178.87		Pond-level is 2.5 feet below maximum
9:48	865	180.78		
9:54				
9:55	865			
9:58	865	182.69		
10:01	865			
10:08		184.20		
10:13	860		136,960.0	Taped air-vent to obtain totalizer readings
10:18		185.61		
10:20			137,018.5	
10:27	855		137,078.0	
10:28	855	186.74		
10:31			137,112.0	
10:41	850	188.41	137,196.0	
10:43	850			
10:45			137,230.0	
10:58		190.07		
10:59			137,348.0	
11:08	845	191.07		Elapsed time = 125 minutes
11:18	840	192.01		
11:20			137,523.0	Pond-level is 9 feet below maximum
11:30	840		137606.5	Elapsed time = 2 ½ hours
11:33	835			
11:44	830		137,723.0	
11:46	835			
11:57	830		137,831.0	
11:59	830			Pond-level is few inches below maximum
12:13		196.80		
12:14	825		137,975.0	Pond level is up to new sod/ maximum level- turning off pump

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JAN 31 2001

D&R mit it

Crane Creek Back Nine Well



JAN 31 2001

Permit #

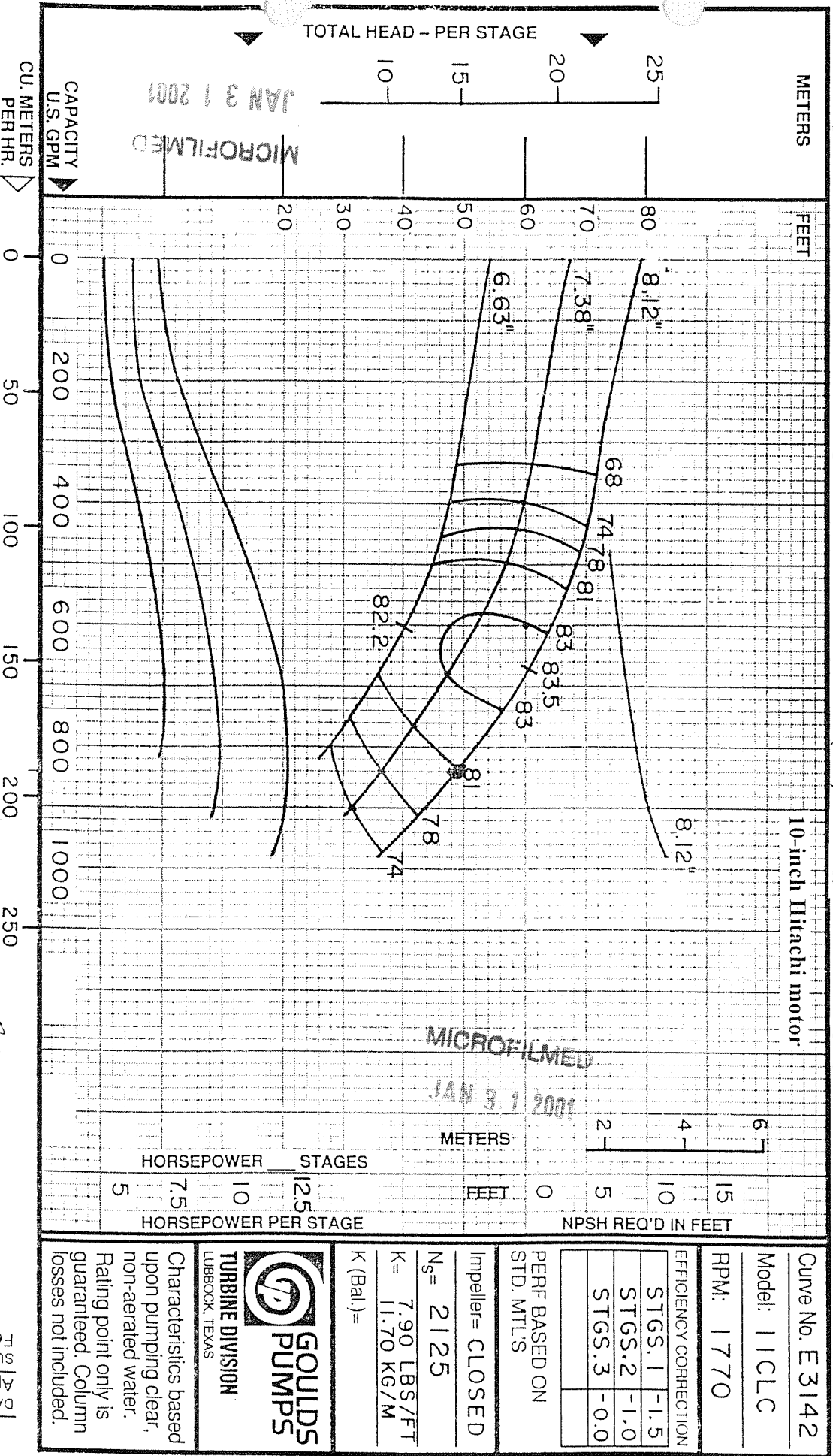
10-15-97

Crane Creek Country Club - Back Nine well pump

Installed March 5, 1996 60 horsepower 5 stages Impellers trimmed slightly below full trim (approx. 7.85")

Product	Service	GPM Capacity	FT TDH	% Efficiency	RPM
Back Nine well pump	300 feet of 8-inch black steel column	600-850	250-300	83	1800

Pump specifications (14/11/1995) and installed capacity test (4/16/1996) by E. Squires and Associates, 1530 Knights Drive, Boise, ID 83712 (208) 342-8369 1/2" PVC sounding tube to 300 feet 1/4" polyhose airline to 300 feet



TURBINE DIVISION
LUBBOCK, TEXAS

Characteristics based upon pumping clear, non-aerated water. Rating point only is guaranteed. Column losses not included.

K (Bal.) =

K = 7.90 LBS/FT

N_G = 2125

Impeller = CLOSED

PERF BASED ON STD. MTL'S

EFFICIENCY CORRECTION
STGS. 1 -1.5
STGS. 2 -1.0
STGS. 3 -0.0

RPM: 1770

Model: 11CLC

Curve No. E 3142

MODEL 11CLC

DATE April, 1994
SUPERCEDES February, 1993

Estimated Head @ 50 ft./stage

APPROX. 840 gpm

GROUNDWATER MEASUREMENT REQUIREMENT ANALYSIS

FILE: 63-12152
DATE: 11-5-1998
BY: Daniel H. Nelson

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8) \times (H.P.) \times (EFF.)}{TDH}$

Q = CFS
H.P. = Total Brake Horsepower of pumping plant (including booster)
EFF. = Pumping plant efficiency (ASSUME 70% OR 0.70)
TDH = total dynamic head = [(LIFT) + (PSI X 2.31)]
LIFT = depth to water in FEET from land surface to pumping water level
PSI = pumping pressure measured in psi near pump (if open discharge assume zero [0])

$$Q = \frac{(8.8) \times (60) \times (0.70)}{[(.1615) + (.15 \times 2.31)]} = \frac{369.6}{196.15} = 1.88 \text{ CFS}$$

846 gpm.

LIFT FROM:	PSI FROM:	NOTES ON PUMP:
measurement ()	measurement ()	Motor Make, Serial or ID
owner (X)	owner ()	
area estimate ()	estimate (X)	Pump Make, Serial or ID, rating
well logs ()	owner gage ()	
	Booster (Y) (N)	

REMARKS: LIFT was sent by owner. PSI was estimated since system was an open discharge system.

ANNUAL VOLUME ANALYSIS

POTENTIAL Acre Feet/Acre/Annum = $\frac{(\text{DAYS IN SEASON}) \times (1.98) \times (Q)}{(\text{RECOMMENDED ACRES IRRIGATED})}$

(season)	(days)	
3/15 - 11/15	246	POTENTIAL = $\frac{(\dots) \times (1.98) \times (\dots)}{(\dots)}$
4/1 - 11/1	215	
4/15 - 10/15	184	
3/1 - 12/1	276	

POTENTIAL = _____

REQUIRED Acre Feet/Acre/Annum = _____
(AF/Ann/Ac irrigation requirement from chart for area)
NOTE that this is NOT Consumptive use

IF POTENTIAL IS GREATER THAN REQUIRED THEN NO MEASUREMENT NECESSARY ()

IF POTENTIAL IS LESS THAN REQUIRED THEN MEASUREMENT IS NECESSARY ()

Back 9 well

MICROFILMED
JAN 31 2001

Supervisor or Operator [Signature] Date 11/18/94

1. DRILLING PERMIT NO. 63 - 94 - W - 0897 - 000
Other IDWR No. 63-03108

2. OWNER:

Name Crane Creek Country Club
Address 500 W Curling Dr
City Boise StateID Zip 83702

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

A 4x4 grid representing a 2D lattice. The top edge is labeled 'N' and the bottom edge is labeled 'S'.

Twp. 4 North ☒ or South ☐
Rge. 2 East ☒ or West ☐
Sec. 26, S/W 1/4 N/E 1/4 1/4
Gov't Lot _____ County Ada

Address of Well Site _____
 _____ Drive City Boise

(Give at least name of road + Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name _____

4. PROPOSED USE:

☐ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation
☐ Thermal ☐ Injection ☐ Other

5. TYPE OF WORK

☒ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD

☒ Mud Rotary ☐ Air Rotary ☐ Cable ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
bentonite	0	60	800#	pumped
sand #6/9	200	425	50 sks	

Was drive shoe used? ☒ YES ☐ NO

Was drive shoe seal tested? Y ☐ N ☒ How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
10	+1' 6"	59	250	steel	☒	☐	☒	☐
8	+3'	347	250	steel	☐	☒	☒	☐
8	376'	379	250	steel	☐	☐	☐	☐

Length of Headpipe 350 Length of Tailpipe 8' 6"

9. PERFORATIONS/SCREENS

☐ Perforations Method _____

☒ Screens Screen Type stainless V wire

From	To	Slot Size	Number	Diameter	Material	Casing	Linear
347	367	30		8"	stainless		xx
379	399	30		8"	stainless		xx
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

____56'____ ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or
control devices: _____ access well cap

11. WELL TESTS:

☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
300	30	86	8 hr

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

[illegible]

13. DRILLER'S CERTIFICATION

17 We certify that all minimum well construction standards were complied with at
18 the time the rig was removed.

Firm Name Stevens & Sons Firm No. 153

Firm Official Ron Stevens Date 10/30/94

Supervisor or Operator: _____ Date: _____

Crane Creek Country Club - Front Nine Well Pump

Installed April, 1995 | 2 stage | 20 horsepower | 140 feet of 5-inch black steel column w/ check valves

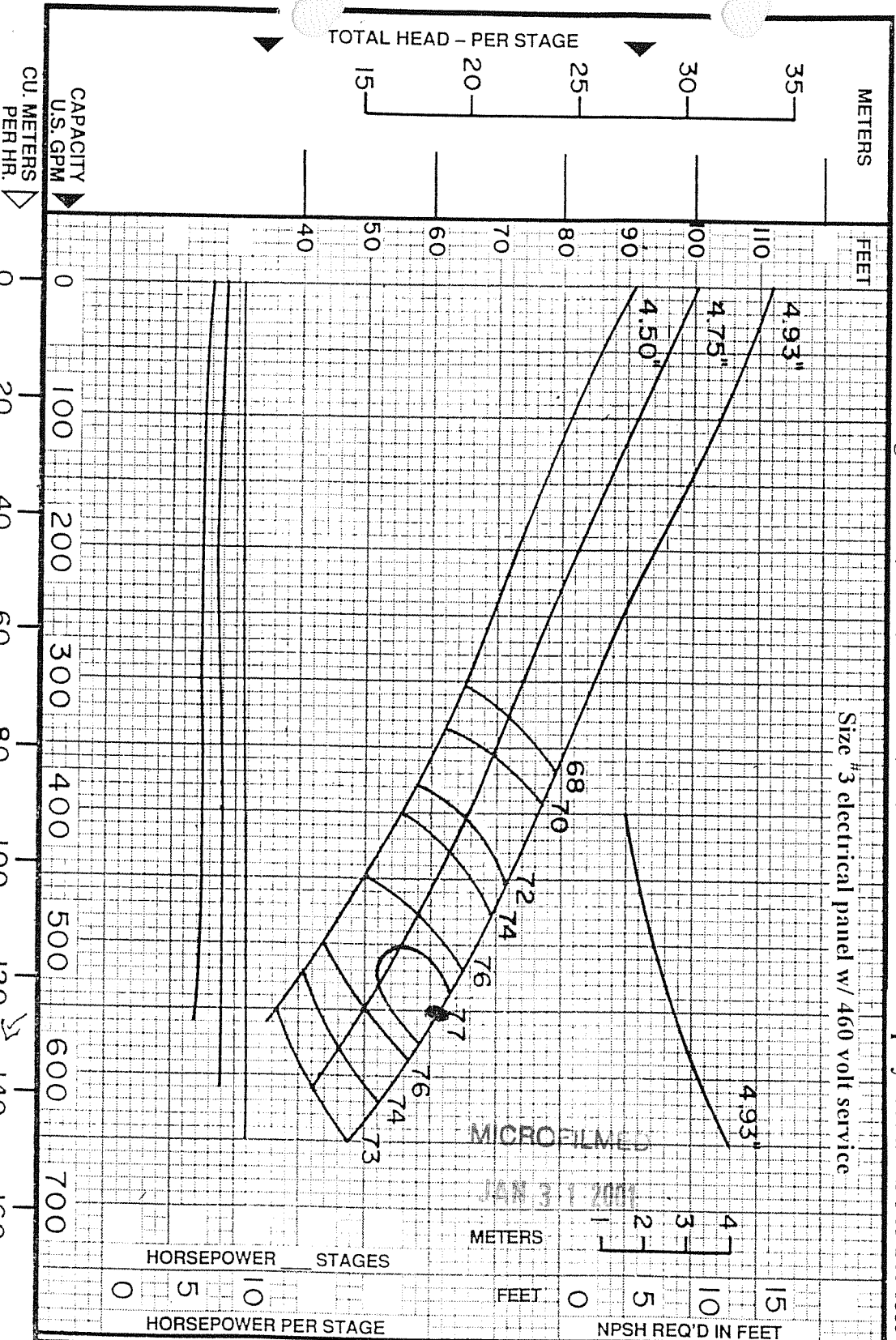
Franklin submersible motor

Impellers slightly below full trim (6.62")

GPM CAPACITY	F.T. TDH	% EFFICIENCY	RPM
550	120	77	3450

Pump specifications (3/16/1995) and installed capacity test (4/26/1995) by E. Squires and Associates, 1530 Knights Drive, Boise, ID 83712 (208) 342-8369

1/2" PVC sounding tube to 140 feet
1/4" polyhose airline to 140 feet



Curve E6207TAPCO
No. _____

Model: 7 TLC

RPM: 3450

EFFICIENCY CORRECTION	
STGS. 1	-3.0
STGS. 2	-2.0
STGS. 3	-1.0

PERF BASED ON
STD. MTL'S

Impeller = CO2974B

N_s = 3684

K = 4.5 LB/FT
6.69 KG/M

K (Bal.) =

GOULDS PUMPS

TURBINE DIVISION

LUBBOCK, TEXAS

Characteristics based upon pumping clear, non-aerated water. Rating point only is guaranteed. Column losses not included.

Estimated Head
Stop at minimal Draw Down
Open Discharge

Approx 550 gpm

DATE: April, 1994
MODEL: 7TLC
SUPERCEDES