

uA

TOOTHMAN-ORTON ENGINEERING COMPANY
CONSULTING ENGINEERS, SURVEYORS AND PLANNERS
WEST 280 PRAIRIE AVENUE
COEUR D'ALENE, IDAHO 83815-7710
208-762-3644 • FAX 208-762-3708

RECEIVED

DEC 21 2006

DEPARTMENT OF
WATER RESOURCES

December 14, 2006

Mr. Keith Franklin
Idaho Department of Water Resources
7600 Mineral Drive, Suite 100
Coeur d'Alene, ID 83815

RECEIVED
DEC 18 2006
IDWR/North

RE: THE SPIRES WATER COMPANY – PROOF OF BENEFICIAL USE – Permit # 96-09072

Dear Keith:

On behalf of The Spires Water Company, I am requesting reinstatement of Water Right Number 96-9072. The Water Right was originally granted on September 20, 2001 with a proof date of October 1, 2003 listed as a condition of approval. A two (2) year extension of the proof date was requested by the Owner, Clay Hutchison and approved by IDWR. This extended the proof date to October 1, 2005. Mr. Hutchison subsequently misplaced the next notice that proof of beneficial use was due and the appropriate paperwork was not filed on time.

I discussed the situation with Deborah Gibson at IDWR in Boise and she requested that I submit a letter of explanation, two (2) forms of evidence that the well is completed and operational, along with a completed Proof of Beneficial Use form and application fee. Attached with this letter you will find the requested paperwork and evidence including a copy of the Well Driller's Report dated 9/9/02; well test pumping data dated 9/16/02; water quality reports dated 9/26/02; and information on the permanent well pump which was installed in 2005.

Please feel free to contact me if you have any questions or require additional information. We apologize for the failure to submit the paperwork on time and appreciate your time and consideration of this matter.

Sincerely,

TOOTHMAN-ORTON ENGINEERING COMPANY



Scott G. McNee, P.E.

Attachments: IDWR Proof of Beneficial Use Form No. 217
Application Fee (\$50.00; Check No. 003207)
Well Driller's Report
Well Pump Testing Information
Well Pump Performance Curve
Bacteria and IOC Analysis Reports

Cc: R. Barclay Hutchison, Owner

IDWR/North

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only		
Inspected by _____		
Twp _____	Rge _____	Sec _____
1/4 _____	1/4 _____	1/4 _____
Lat: _____	Long: _____	

1. WELL TAG NO. **D0022719**

DRILLING PERMIT N 783922

Other IDWR No _____

2. OWNER:

Name **R. Barclay Hutchison**Address **Spire Water Company / 206 N 4th, PNB 177**

City Sandpoint

State ID _____

Zip 83864

3. LOCATION OF WELL by legal description:

N		Twp 58N	North	✓	or	South
Rge 02W		East	or	West	✓	
Sec 20		1/4 SE	1/4 SW	1/4		
10 Ac		40 Ac	160 Ac			
Gov't Lot _____		County Kootenai				
Lat _____		Long _____				

Address of Well Site: (see next line)

City Sandpoint

Lot _____ Blk _____ Sub. Name (see next line)

4. USE:

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

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			Amount	Method
Material	From	To	Sacks/Lbs	
Bentonite	0	33	19 sacks	pour in
3/8 Hole Plug	33	46	20 sacks	pour in

Drive Shoe Used? ☐ Y ☒ N Shoe Depth(s) _____Drive Shoe Seal Tested? ☐ Y ☒ N How? _____

8. CASING/LINER

Diam	From	To	Gauge	Material	Casing	Liner	Weld	Thrded
6	+3	214	0.280	Steel	✓			✓

Length Headpipe _____ Length Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations? _____ Method Torch Cut

Screens? _____ Screen Type _____

From	To	Slot	Nmbr	Diam	Material	Casing	Liner
130	214	1/4 X		6"	steel	✓	
		12					

10. STATIC WATER LEVEL or ARTESIAN PRESSURE

33 ft. below ground. Artesian pressure _____ lb.

Depth flow encountered 55 ft. Describe access port or

Control devices: Steel cap welded

11. WELL TESTS:

Pump

Bailer

✓ Air

Flowing Artesian

Yield gal./min.	Drawdown	Pump Level	Time
62	100%	213	3 hrs.

Water Temp. _____ cold Bottom hole temp. _____ cold
Water Quality test or comments: (below) Depth first Water Encountered 55
clear, cold, no smell

12. LITHOLOGIC LOG (Describe repairs or abandonment)

Bore Diam	From	To	Remarks: Lithology, Water Quality and Temperature	Water
12	0	10	Boulders & cobbles	Y N
12	10	50	Decomposed granite - brown/white quartz & mica	Y N
12	50	63	Decomposed granite - brown/white quartz & mica water @ 55'	Y N
8	63	100	Decomposed granite - brown/white quartz & mica with broken areas	Y N
8	100	108	Decomposed granite - brown/white quartz & mica - medium	Y N
8	108	120	Decomposed granite - brown - soft	Y N
8	120	123	Decomposed granite - brown - medium	Y N
8	123	127	Granite - black & white - mica/quartz	Y N
8	127	130	Granite - black/white/green/mica/quartz	Y N
8	130	147	Granite - black/white/green/mica/quartz	Y N
8	147	157	Granite-black/white/green/mica/quartz	Y N
8	157	165	Granite-same - hard	Y N
8	165	198	Granite-black/white/quartz/mica - hard	Y N
8	198	208	Granite - same - soft	Y N
8	208	214	Granite - same - hard	Y N

Completed Depth 214 (Measurable)

Date: Started 8/24/02 Completed 8/31/02

13. DRILLERS CERTIFICATION

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

Firm Name United Drilling Inc.

Firm No 414

Firm Official and

Jason C. Beckham

Date 9/9/02

Supervisor or Operator Jason C. Beckham

Date 9/9/02

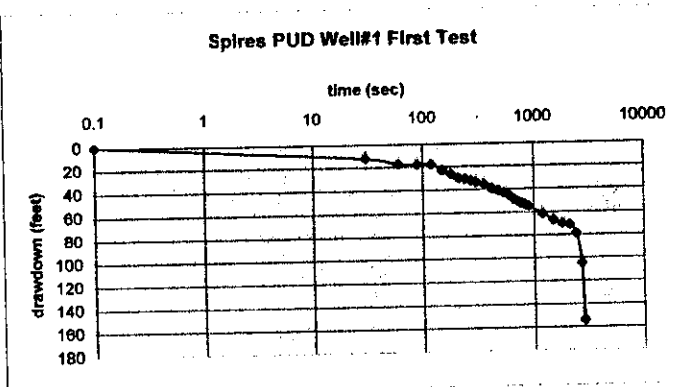
FORWARD WHITE COPY TO WATER RESOURCES

582

58N 2W 20

Test #1 - ran the well dry after 47 minutes pumping at ~75 gpm

Time	elapsed time (sec)	DTW	Drawdown (feet)	
8:20	0.1	40.8	0	0
8:20:30	30.00	53	12.2	-12.2
8:21:00	60.00	58.4	17.6	-17.6
8:21	90.00	58.9	18.1	-18.1
8:22:00	120.00	58.9	18.1	-18.1
8:22:30	150.00	64	23.2	-23.2
8:23	180.00	67.2	26.4	-26.4
8:23:30	210.00	71	30.2	-30.2
8:24:00	240.00	71.8	31	-31
8:24	270.00	73.1	32.3	-32.3
8:25:00	300.00	74.4	33.6	-33.6
8:26:00	360.00	76.6	35.8	-35.8
8:27	420.00	80.2	39.4	-39.4
8:28:00	480.00	81.9	41.1	-41.1
8:29:00	540.00	83.9	43.1	-43.1
8:30	600.00	86	45.2	-45.2
8:31:00	660.00	89.6	48.8	-48.8
8:32:00	720.00	91.5	50.7	-50.7
8:33	780.00	93.1	52.3	-52.3
8:34:00	840.00	94.4	53.6	-53.6
8:35:00	900.00	95.4	54.6	-54.6
8:40	1200.00	102.8	62	-62
8:45:00	1500.00	108.1	67.3	-67.3
8:50:00	1800.00	111.2	70.4	-70.4
8:55	2100.00	112.2	71.4	-71.4
9:00:00	2400.00	120.1	79.3	-79.3
9:05:00	2700.00	145.7	104.9	-104.9
9:07	2820.00	195	154.2	-154.2

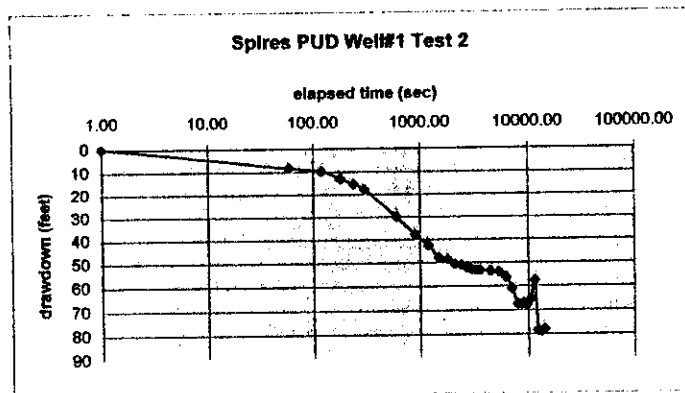


Transmissivity Calculations

0.000768 T (ft²/sec)
66.1543 T (ft²/day)

Test #2 - ran the well for 4 hours at 45 gpm

Time	elapsed time (sec)	DTW	Drawdown (feet)	Q (gpm)
10:00	1.00	50	0	50
10:01	60.00	58.4	8.4	50
10:02	120.00	59.9	9.9	50
10:03	180.00	63.1	13.1	50
10:04	240.00	65.3	15.3	50
10:05	300.00	67.5	17.5	50
10:10	600.00	80	30	50
10:15	900.00	87.9	37.9	50
10:20	1200.00	92.6	42.6	50
10:25	1500.00	97.9	47.9	50
10:30	1800.00	98.6	48.6	50
10:35	2100.00	100.7	50.7	50
10:40	2400.00	101.1	51.1	50
10:45	2700.00	102.2	52.2	50
10:50	3000.00	102.9	52.9	50
10:55	3300.00	103.3	53.3	50
11:00	3600.00	103.4	53.4	50
11:15	4500.00	103.6	53.6	50
11:30	5400.00	104	54	50
11:45	6300.00	106.2	56.2	50
12:00	7200.00	111.2	61.2	50
12:15	8100.00	117.5	67.5	50
12:30	9000.00	117.4	67.4	40
12:45	9900.00	117.8	67.8	40
13:00	10800.00	115.5	65.5	40
13:15	11700.00	107.7	57.7	40
13:30	12600.00	128.5	78.5	40
13:45	13500.00	129	79	40
14:00	14400.00	128	78	40



Transmissivity Calculations

0.000659 T (ft²/sec)
56.90692 T (ft²/day)

0.000634 T (ft²/sec)
54.74839 T (ft²/day)

WELL TEST #2

Customer:

Address:

Job Location:

Shwitzer Mt.

Phone No:

Alpine Way

WELL DATA

Total Depth:

220'

Test Pump Used:

20 Hp 30 460v 150 GPM

Static Water Level:

50'

Pump Setting:

196'

Driller Tested:

Date of Test:

9-16-02

Seconds	Time	Flow Rate	Pressure	Water Quality	Static Level	SOH
		Gallons Per Minute	Per Square Inch			
	10:00			Color	50	
	:01	60	180		58.4	
	:02	11	185		59.9	
	:03	"	180		63.1	
	:04	"	180	Cloudy	65.3	
	:05	"	180		67.5	
	10:10	"	175		80	
	:15	"	170		87.9	
	:20	"	170		92.6	
	:25	"	170		97.9	
	:30	"	170		98.6	
	:35	"	165		100.7	
	:40	"	170		101.1	
	:45	"	165		102.2	
	:50	"	170		102.9	
	:55	"	165		103.3	
	11:00	"	165		103.4	

TEST SUMMARY:

0.00 was the average gallons per minute produced by this well over the four-hour test period.

WELL TEST #2 (Cont.)

Address:

Phone No:

WELL DATA

Test Pump Used:

Pump Setting:

Date of Test:

[illegible]

0.00 was the average gallons per minute produced by this well over the four-hour test period.

ATL Accurate Testing Labs, LLC

7950 Meadowlark Way Coeur d'Alene, ID 83815 Phone (208) 762 8378 Fax (208) 762 9082
Web site: www.accuratetesting.com E-mail: info@accuratetesting.com

STATE OF IDAHO DRINKING WATER COLIFORM BACTERIA ANALYSIS REPORT

Laboratory Director: Walter Mueller
Laboratory Supervisor, Microbiology: Rhena Cooper

United Pump Company
Richard Agueros
P.O. Box 1690
Hayden Lake, ID 83835

Lab Sample Number: 30691

Lab Order Number: 2002090312 1

PWS Number:

Water System: Spires
Location: Well Site
County: Bonner
Collected By: Mike Hohensee
Sample Type: RS-Routine Sample

Date Collected: 09/26/2002
Time Collected: 13:30

Date Received: 09/27/2002
Time Received: 09:00

Method	Analyte	Result	Analysis Date	Analyst
9223B-PA	Total Coliform	Absent	09/28/2002	WM
9223B-PA	E. Coll	Absent	09/28/2002	WM

NOTES:

IF YOUR RESULT IS "ABSENT": The absence of coliform bacteria indicates that your water is not contaminated with coliform bacteria.

IF YOUR RESULT IS "PRESENT": The presence of coliform bacteria means that your water is contaminated, and may contain disease causing organisms. Contaminated water should not be used for drinking water.

If coliform bacteria are present, an additional test has been run for Escherichia coli bacteria. The result for this test is also reported as being present or absent.

Lab EPA ID No.: ID00912	Lab Sample #: 30381
Date Received: 09/17/2002	Date Reported by Lab: 09/25/2002
Compliance or Replacement Sample: Compliance	
Date Collected: 09/16/2002	Time Collected: 13:30:
Sample Type: Plant Tap	
PWS # 1090252	PWS Name: Spires Water System
Sampling Location: Wellhead	Tag #
Collector's Name: Scott G. McNee	Phone: (208) 762-3644

ATL

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7950 Meadowlark Way
Coeur d'Alene, ID 83815
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Fax (208) 762 9082

Web site: www.accuratetesting.com

E-mail: info@accuratetesting.com

Drinking Water

Public Drinking Water System INORGANIC CHEMICAL (IOC) ANALYSIS REPORT:

Phase II								Phase V							
FRDS	Contaminant	RESULT*	MCL*	MDL*	Method	Analysis Date	Analyst	FRDS	Contaminant	RESULT*	MCL*	MDL*	Method	Analysis Date	Analyst
1010	Barium	0.04	2.000	0.02	EPA 200.7	09/24/2002	WM	1036	Nickel	ND	0.10	0.02	EPA 200.7	09/24/2002	WM
1015	Cadmium	ND	0.005	.002	EPA 200.7	09/24/2002	WM	1074	Antimony	ND	0.006	.005	EPA 200.9	09/25/2002	WM
1020	Chromium	0.01	0.100	0.01	EPA 200.7	09/24/2002	WM	1075	Beryllium	ND	0.004	.002	EPA 200.7	09/24/2002	WM
1035	Mercury	ND	0.002	.0005	EPA 245.1	09/23/2002	WM	1085	Thallium	ND	0.002	.001	EPA 200.9	09/25/2002	WM
1038	TiI (NO2/NO3)	ND	10.0	0.5	EPA 300.1	09/17/2002	WM	Other IOCs							
1040	Nitrate	ND	10.0	0.5	EPA 300.1	09/17/2002	WM	1005	Arsenic	ND	0.050	.004	EPA 200.9	09/23/2002	WM
1041	Nitrite	ND	1.0	0.5	EPA 300.1	09/17/2002	WM	1025	Fluoride	ND	4.000	0.2	EPA 300.1	09/17/2002	WM
1045	Selenium	ND	0.050	.005	EPA 200.9	09/25/2002	WM	1052	Sodium	7.24		0.30	EPA 200.7	09/24/2002	WM
1024	Cyanide														
Secondary IOCs (optional)															
1002	Aluminum							1055	Sulfate	1.6	250.0	1.50	EPA 300.1	09/17/2002	WM
1003	Ammonia							1095	Zinc						
1016	Calcium	6.18		0.1	EPA 200.7	09/23/2002	WM	1905	Color						
1017	Chloride							1915	Hardness						
1022	Copper							1920	Odor						
1027	Hyd. Sulfide							1925	pH	6.61			EPA 150.1	09/17/2002	WM
1028	Iron							1926	Conductivity						
1031	Magnesium							1927	Alkalinity	16.0		0.1	EPA 310.1	09/17/2002	WM
1032	Manganese							1930	Diss. Solids	74.0	500.0	1.00	EPA 160.1	09/23/2002	RFR
1042	Potassium							1997	Langlier Indx	-3.139			Misc.	09/23/2002	WM
1049	Silica SiO2							2905	Surfactants						
1050	Silver							1030	Lead						

*Reported in mg/L unless otherwise noted, units differ for secondary MCLs depending on contaminant

ND = Not detected within sensitivity of instrument

Empty = No analysis performed for this contaminant

MDL = Method detection limit

MCL = Maximum Contaminant Level

Comments:

Spires Water System
Clay Hutchison
206 N. 4th PNB 177
Sandpoint, ID 83864

Lab Supervisor's Signature

Walter Mueller

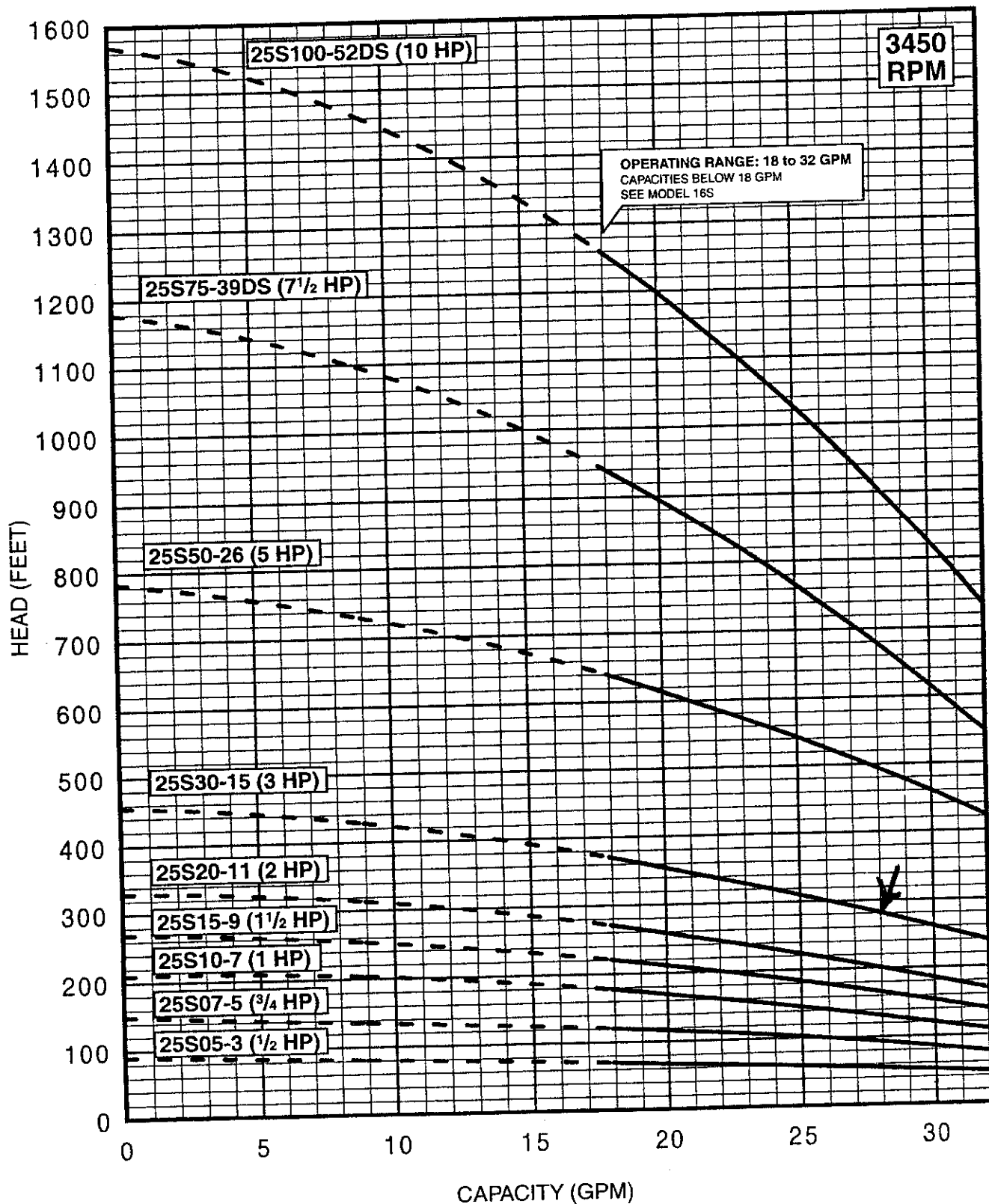
09/25/2002

ATL Order No.: 2002090180 1

FLOW RANGE: 18 -32 GPM

OUTLET SIZE: 1½" NPT

NOMINAL DIA. 4"



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
4" MOTOR STANDARD, .5-5 HP/3450 RPM.
6" MOTOR STANDARD, 7.5-10HP/3450 RPM.
Alternate motor sizes available.

Performance conforms to ISO 2548 Annex P
@ 2 ft. min. submergence.