

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-8856

Exam Date: 10/1/2007

1. Current Owner: COUGAR BAY RIDGE WATER LLC
PO BOX 3070
COEUR D'ALENE ID 83816
(208)209-0216

2. Accompanied by: Wall Haneke

Phone No: Same

Address: 6600 N Government Way, Coeur d'Alene ID 83815

Relationship to Permit Holder:

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER SE1/4SE1/4NE1/4 Sec. 10, Twp 50N, Rge 04W, B.M. KOOTENAI County

GROUND WATER SE1/4SE1/4NE1/4 Sec. 10, Twp 50N, Rge 04W, B.M. KOOTENAI County

Method of Determination: GPS

2.

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
50N 04W 21	13.0	13.0		13.0									13.0				52.0

Total Acres: 52

PLACE OF USE: MUNICIPAL

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
50N 04W 21	13.0	13.0		13.0									13.0				52.0

Total Acres: 52

DOMESTIC same as MUNICIPALFIRE PROTECTION same as MUNICIPAL

4 Photo of Diversion and System Attached

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
		100		Grundfos	Model 475S
		100		Grundfos	Model 475S

[illegible]

PUMP EQUATIONS		WELL#1 D0039760			
WATER RIGHT No.		95-8856			
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
$Q = \frac{HP \times 8.8 \times \text{Eff}}{H}$	100	275.3401	0.7	125	65
Q = 2.241 cfs		1005.7 gpm			

PUMP EQUATIONS			WELL # 2 D0039621		
WATER RIGHT No.			95-8856		
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
$Q = \frac{HP \cdot 8.8 \cdot \text{Eff}}{H}$	100	275.3401	0.7	125	65
$Q =$ 2.241 cfs			1005.7 gpm		

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F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 52 \times 3 = 156$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 1 \text{ cfs} \times 246 \text{ days} \times 1.9835 = 487.9 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 156 \text{ af}$$

2. Volume Calculations for Other Uses:

$$52 \text{ ac} \times 3 = 156$$

$$120 \text{ homes} \times .6 = 72.0$$

$$\text{TOTAL } 228 \text{ af}$$

G. NARRATIVE/REMARKS/COMMENTS

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS: This permit #95-8856 needs Amendment for the following changes. 1) Addition of Point of Diversion (POD). 2) Change of location of POD of two wells. 3) Change of use to Municipal form Domestic, Irrigation and Fire Protection. PWS # ID 1280309

1. Recommended Amounts

BENEFICIAL USE	PERIOD OF USE	DIVERSION RATE	ANNUAL VOLUME
IRRIGATION	03/15 to 11/15	1.000 CFS	
DOMESTIC	01/01 to 12/31	1.000 CFS	
FIRE PROTECTION	01/01 to 12/31	1.000 CFS	
MUNICIPAL	01/01 to 12/31	1.000 CFS	228.00 AF
<u>Totals:</u>		1.000 CFS	228.00 AF

2. Recommended Amendments

☒ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None

☒ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

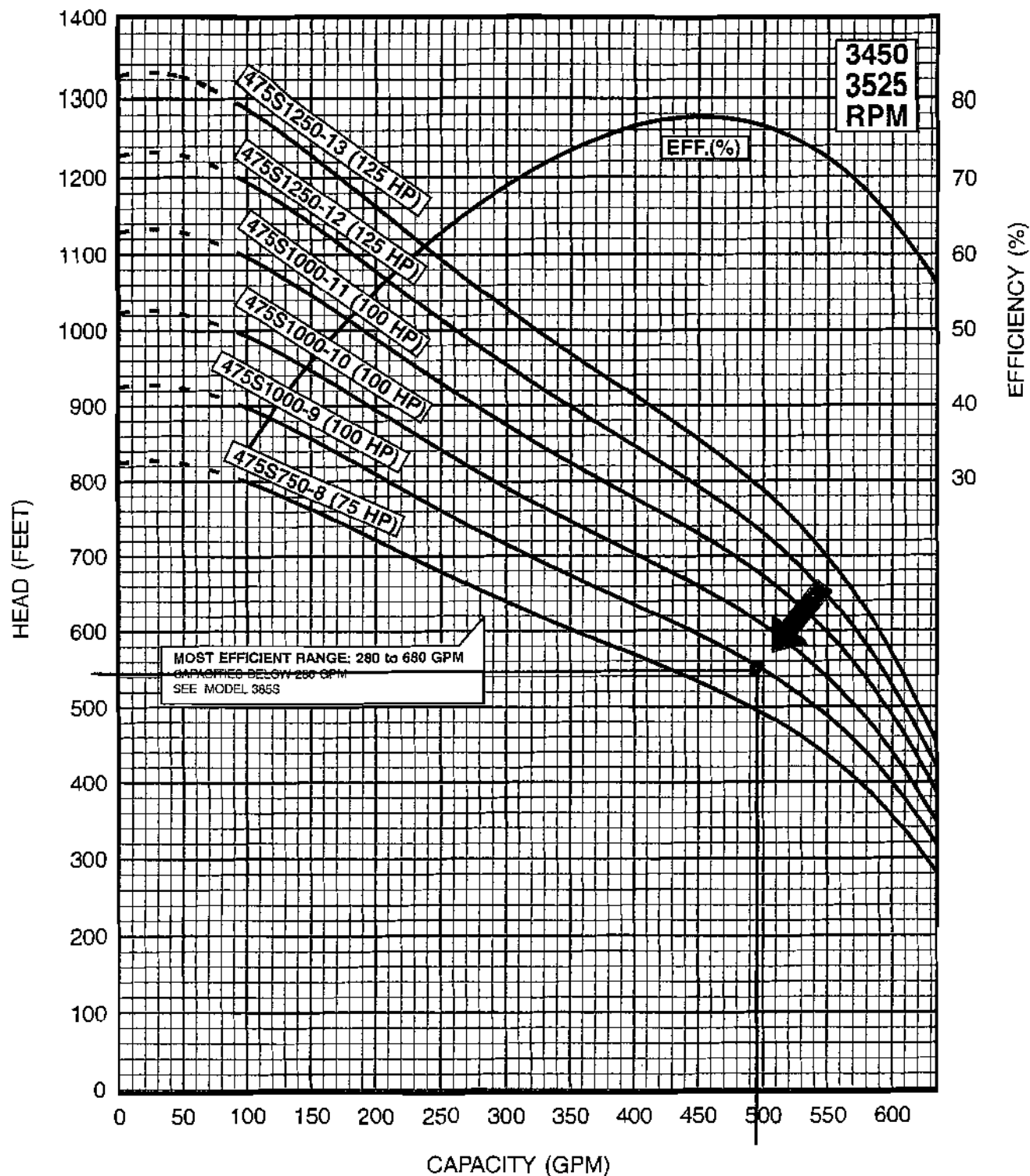
Field Examiner's Name Eric R. Davis Date 12-26-2007

Reviewer [Signature] Date 2/11/18

FLOW RANGE: 95 - 680 GPM

OUTLET SIZE: 6" NPT

NOMINAL DIA. 8"



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

6" MOTOR STANDARD, 10-60 HP/3450 RPM.

8" MOTOR STANDARD, 75-125 HP/3525 RPM.

* Alternate motor sizes available.

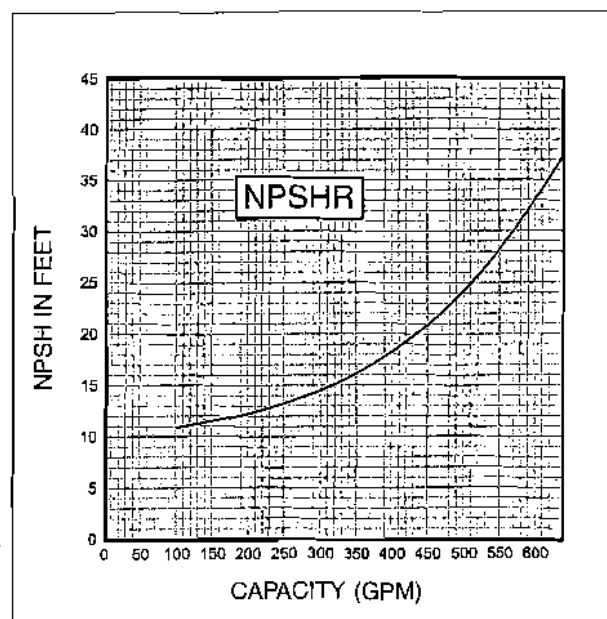
Performance conforms to ISO 9906 Annex A

@ 8 ft. min. submergence.

MATERIALS OF CONSTRUCTION

COMPONENT	CYLINDRICAL SHAFT (1-13 Stgs.)
Check Valve Housing	304 Stainless Steel
Check Valve	304 Stainless Steel
Diffuser Chamber	304 Stainless Steel
Split Cone Nut	304 Stainless Steel
Split Cone	304 Stainless Steel
Impeller	304 Stainless Steel
Suction Interconnector	304 Stainless Steel
Inlet Screen	304 Stainless Steel
Straps	304 Stainless Steel
Cable Guard	304 Stainless Steel
Coupling	316/329 Stainless Steel
Pump Shaft	431 Stainless Steel
Intermediate Bearings	NBR
Impeller Seal Ring	NBR/PPS
Check Valve Seat	NBR/316 Stainless Steel
Lower Bearing	NBR/316 Stainless Steel
Upthrust Washer	Carbon/Graphite HY22
Upthrust stop ring	304 S.S./Tungsten Carbide
O-Ring	NBR
Valve Seat	304 Stainless Steel
Lower Valve Seat Retainer	316 Stainless Steel
Upper Valve Seat Retainer	304 Stainless Steel
Valve Guide	304 Stainless Steel
Valve Cup Spring	304 Stainless Steel

NOTES: Specifications are subject to change without notice.



DIMENSIONS AND WEIGHTS

MODEL NO.	FIG.	HP	MOTOR SIZE	OISCH. SIZE	DIMENSIONS IN INCHES						APPROX. SHIP WT.
					A	B	C	D	E	F	
475S75-1A	A	7.5	6"	6" NPT	48.5	24.2	24.3	5.4	7	54.6	161
475S100-1	A	10	6"	6" NPT	49.7	25.4	24.3	5.4	7	55.8	171
475S150-2B	A	15	6"	6" NPT	57.4	28.0	29.4	5.4	7	63.5	195
475S200-2	A	20	6"	6" NPT	60.0	30.6	29.4	5.4	7	66.1	210
475S250-3A	A	25	6"	6" NPT	67.5	33.1	34.4	5.4	7	73.6	230
475S300-3	A	30	6"	6" NPT	70.1	35.7	34.4	5.4	7	76.2	230
475S300-4AB	A	30	6"	6" NPT	75.2	35.7	39.5	5.4	7	81.3	295
475S400-4*	A	40	6"	6" NPT	80.3	40.8	39.5	5.4	7	86.4	328
475S400-5B	A	40	6"	6" NPT	85.3	40.8	44.5	5.4	7	91.4	336
475S500-5*	A	50	6"	6" NPT	102.5	58.0	44.5	5.4	7	108.6	428
475S500-6A	A	50	6"	6" NPT	108.1	58.0	50.1	5.4	7	114.2	437
475S600-6*	A	60	6"	6" NPT	111.8	61.7	50.1	5.4	7.0	117.9	403
475S600-7*	A	60	6"	6" NPT	116.9	61.7	55.2	5.4	7.0	123.0	467
~~475S750-8~~	A	75	8"	6" NPT	107.6	47.4	60.2	7.5	7.7	113.7	547
475S1000-9	A	100	8"	6" NPT	120.1	54.9	65.2	7.5	7.7	126.2	641
~~475S1000-10~~	A	100	8"	6" NPT	125.2	54.9	70.3	7.5	7.7	131.3	648
475S1000-11	A	100	8"	6" NPT	130.3	54.9	75.4	7.5	7.7	136.4	654
475S1250-12	A	125	8"	6" NPT	149.2	68.8	80.4	7.5	7.7	155.3	862
475S1250-13	A	125	8"	6" NPT	154.3	68.8	85.5	7.5	7.7	160.4	868
Pipe Adapter	A									6.1	

NOTES: All models suitable for use in 8" wells, unless otherwise noted.

Weights include pump end with motor in lbs.

*Alternate motors sizes available.

All models come with a standard 5"-6" Pipe Adapter refer to chart for dimensions.

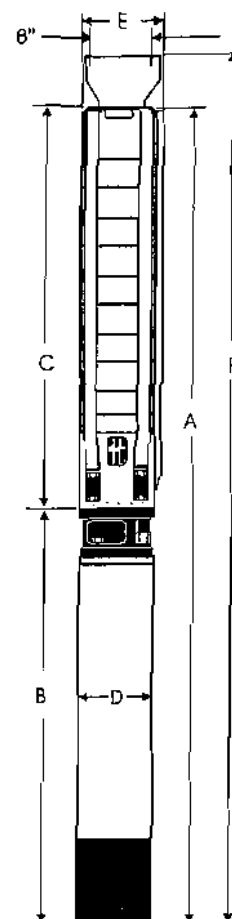


Fig. A



FLOW METER.JPG



WATER SUPPLY.JPG



WELL #1 .JPG



WELL #2 D0039621.JPG



WELL #1 D0039760.JPG

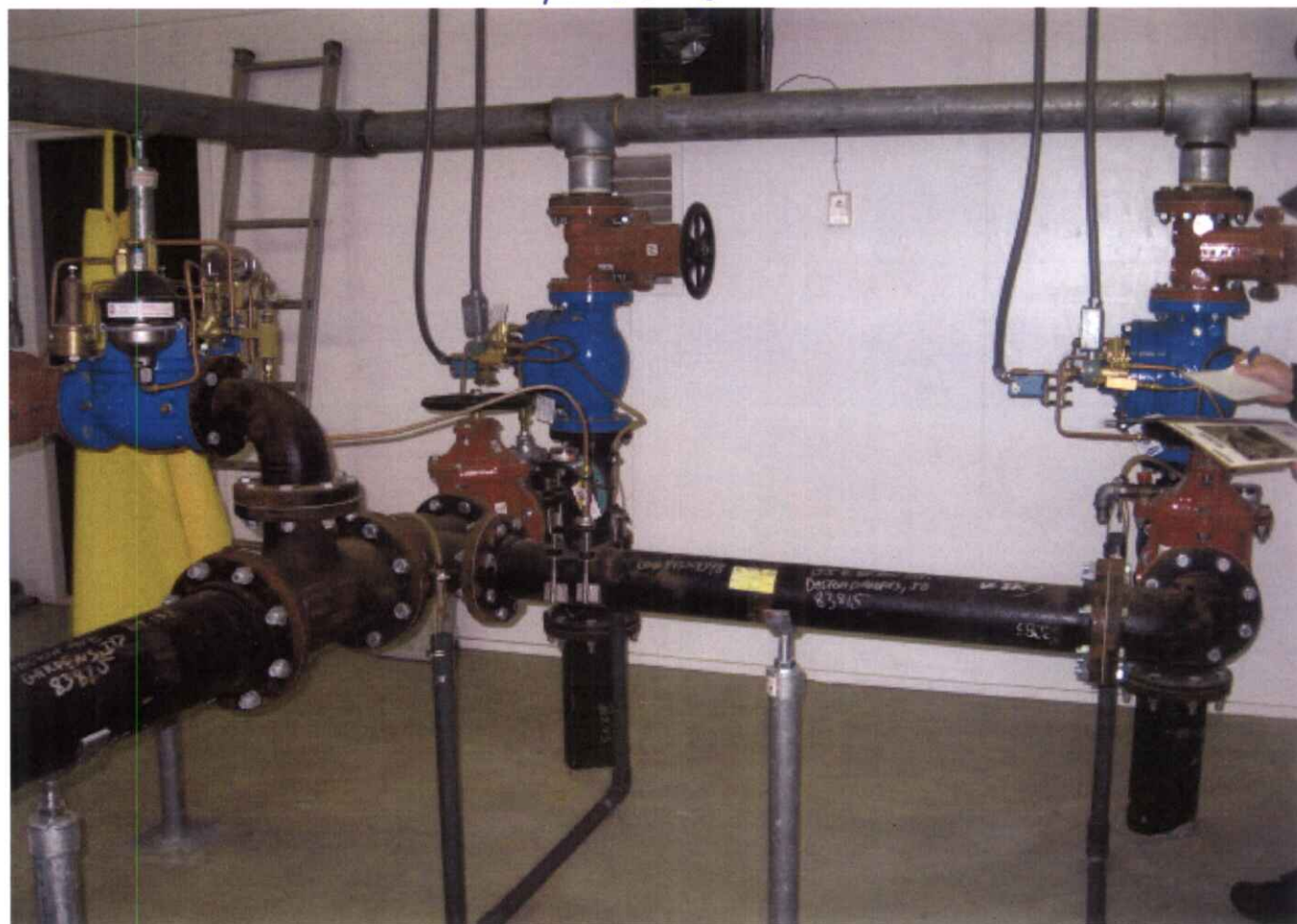
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WELL #2.JPG



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