

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-09342

Exam Date: 9/13/2016

1. Current Owner:
LARRY PEAK PO BOX 405 SANDPOINT ID 83864 (208)255-6111

2. Accompanied by: Mike Peak
Phone No: 208-290-2561
Relationship to Permit Holder: Applicants son

3. **SOURCE:**
GROUND WATER

TRIBUTARY:**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 SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER SE¼SE¼SW¼ Sec. 25, Twp 57N, Rge 03W, B.M. BONNER County

Method of Determination: GPS and maps. POD (D0054473) located at 116° 38.671, 48° 15.176 (A0003213)

2.

PLACE OF USE: INDUSTRIAL

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
57N	03W	25												X					

Method of Determination: GPS and arc map.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

X

Indicate weir size/pipe as applicable.

X

Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

X

Aerial Photo Attached (required for irrigation of 10+ acres).

X

Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0054473	GRUNDFOS	15			

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements:

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method: UNABLE TO PERFORM FLOW MEASUREMENT, PIPES BURIED. APPLICANT SUPPLIED THE BILLED WELL AND PUMP WORK WHICH STATED A 15 HP 150 GPM PUMP WAS INSTALLED. THEORETICAL PUMPING EQUATION SUPPORTS THIS. SEE ATTACHED.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} =$$

2. Volume Calculations for Other Uses: 25,000 YARDS OF CONCRETE X 30 GALLONS = 750,000 GPY

2,500 GALLONS X 180 DAYS = 450,000 GPY

750,000 + 450,000 = 1,200,000 GPY / 325,850 GAL/AF = 3.7 AF

G. NARRATIVE/REMARKS/COMMENTS

Field exam with Mike Peak showed well drilled in 2008 with 15 hp 150 gpm pump. Water was for cement plant and all industrial uses to operate plant. Interstate concrete said they produced on average 25,000 yards of cement per year and each yard of cement took 30 gallons of water. Water was also used for miscellaneous uses around facility that included; truck washing, machine washing, bathroom and breakroom use, and dust abatement. Applicant said that water use was 2,500 gallons a day during the 180 operating days per year. Water went from well to plant where it was mixed with other materials before being mixed with concrete. Water was also used throughout the building for bathrooms and breakroom. License will be issued for 150 gpm or 0.33 cfs with annual volume at 3.7 af.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
INDUSTRIAL	01/01 to 12/31	0.33 CFS	3.7 AF
<u>Totals:</u>		0.330 CFS	3.70 AF

2. Recommended Amendments

 Change P.D. as reflected above Add P.D. as reflected above X None

 Change P.U. as reflected above Add P.U. as reflected above X None

I. AUTHENTICATION

Field Examiner's Name Adam Fendrich Date 12-2-2016

Reviewer Morgan Case Date 2/7/2017

State of Idaho
Department of Water Resources
Water Right License
96-9342

INDUSTRIAL

03W



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections

0 0.035 0.07 0.14 Miles



State of Idaho
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96-9342

INDUSTRIAL DELIVERY SYSTEM

03W



0 0.0175 0.035 0.07 Miles

-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections



PUMP EQUATIONS WATER RIGHT No. 96-9342						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/ H	15	317.408 2	0.8	137	78
Q =		0.333 cfs	149.6 gpm			



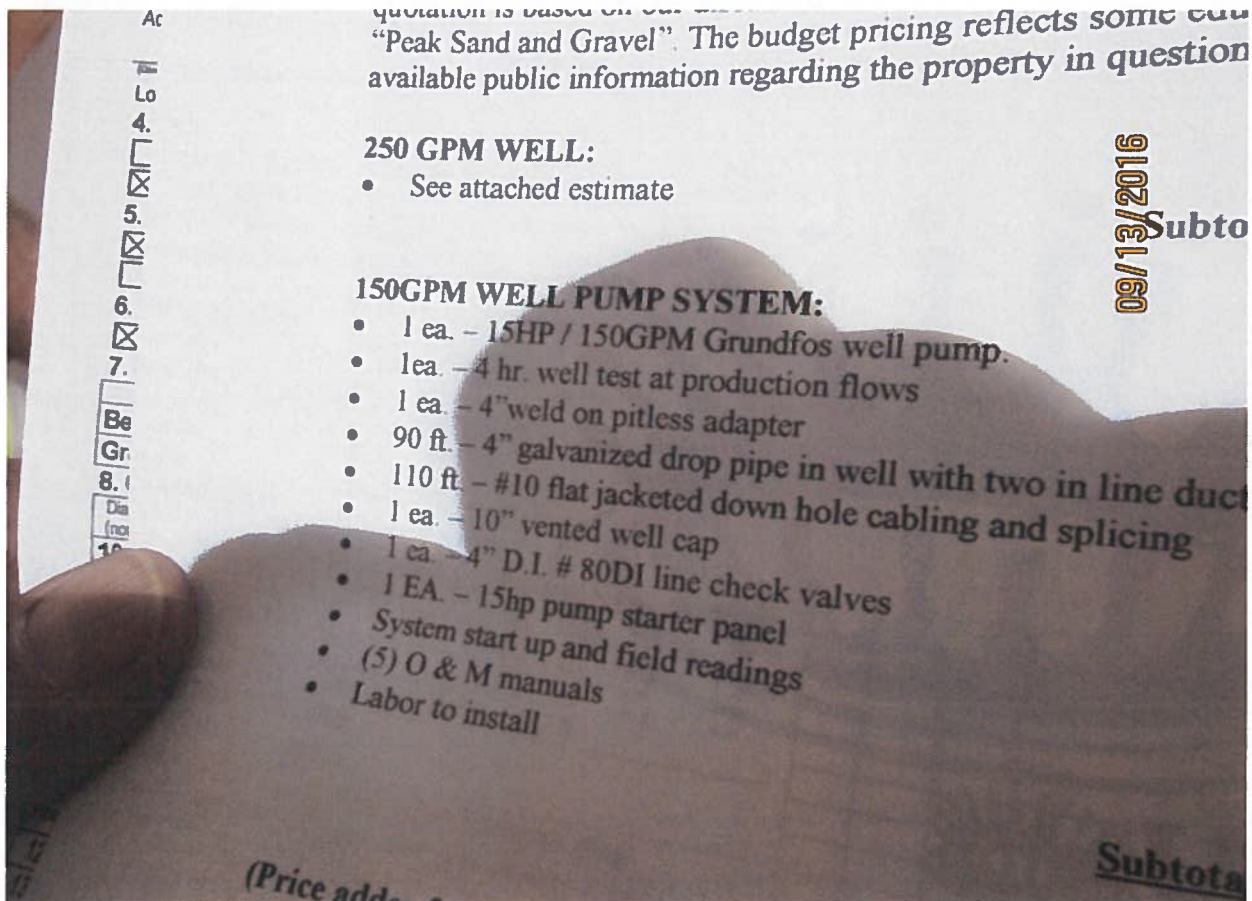
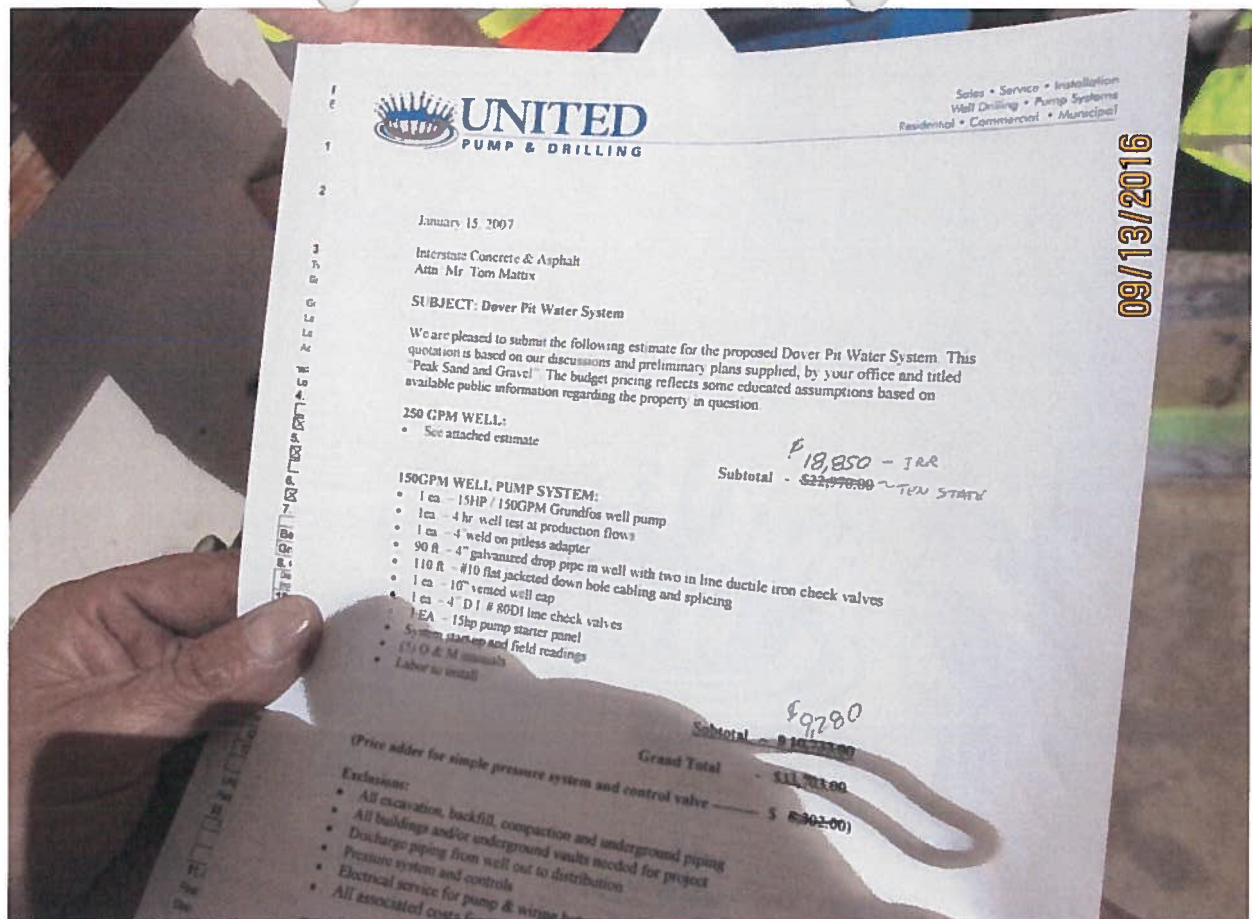
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Well drilled in 2008 with tag D0054473



Well tag and well ID tag given by IDWR examiner in 2013



Paperwork from installation of system with 150 gpm 15 hp pump.



Place of use, concrete plant.



Water distribution room.



Miscellaneous industrial use from well.