

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-12277

Exam Date: 2/17/2015

1. Current Owner: IDAHO ASPHALT SUPPLY INC
16425 W PRAIRIE AVE
HAUSER ID 83854
(208)589-1294
2. Accompanied by: Kenneth Custer
Phone No: 208-589-1294
Relationship to Permit Holder: Manager: Engineering, Safety, Environmental

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 95-8246
2. Other water rights with the same point of diversion: 95-8246

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

GROUND WATER SW1/4SE1/4 Sec. 19, Twp 51N, Rge 05W, B.M. KOOTENAI County

GROUND WATER SE1/4SE1/4 Sec. 19, Twp 51N, Rge 05W, B.M. KOOTENAI County

Method of Determination: GPS and Maps. POD locations: Owners Permit No. 95-8246 drilled in 1983 at 47° 44.771N 117° 00.436W (A0003289). Drilling Permit 95-93-N-2 at 47° 44.752N 117° 00.365W (A0003288).

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	
51N 05W 19													X	X	X	X	

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	
51N 05W 19															.1		.1

Total Acres: 0.1

Method of Determination:

3. ☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion 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 Size</u>
95-93-N-2	FRANKLIN	10			
95-8246	FRANKLIN	10			

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

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
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N/A

2. Measurements:

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method: UNABLE TO PERFORM FLOW MEASUREMENT BECAUSE NO PIPES WERE EXPOSED WITH A LONG ENOUGH SECTION TO HOOK UP FUJI FLOWMETER. SEE ATTACHED FOR THEORETICAL PUMPING EQUATIONS.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.1 \times 3 \text{ AF} = .3 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = .03 \times 246 \times 1.9835 = 14.6 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = .3 \text{ AF}$$

2. Volume Calculations for Other Uses: SEE ATTACHED.

G. NARRATIVE/REMARKS/COMMENTS

INDUSTRIAL USE AND IRRIGATION OF 0.1 ACRES. THEORETICAL FLOW TESTS FOR BOTH WELLS SHOW FLOW RATES OF 121GPM AND 109GPM. INDUSTRIAL USE IS FOR ASPHALT PRODUCTION AND USE IN BATHROOMS, SHOWERS AND SINKS. TOTAL EMPLOYEES RANGE FROM 7-15 AND THERE ARE 4 BATHROOMS, 1 KITCHEN AND 1 SHOWER ROOM. IRRIGATION OF 0.1 ACRES FOR COMMON AREA OUTSIDE OFFICE. SEE ATTACHED ANNUAL VOLUME SHEET. LICENSE WILL BE ISSUED FOR 0.20CFS AND ANNUAL VOLUME OF 16.3AF. OVERLAPPING WATER RIGHTS WILL LIMIT TOTAL ANNUAL VOLUME TO 16.3AF AND TOTAL DIVERSION OF 0.20CFS. 95-12277 ADDED NEW WELL AND IRRIGATION AND 2.4AF FOR INDUSTRIAL USE. OVERLAPPING WATER RIGHT NUMBER 95-8246.

Have conditions of permit approval been met? ☒ 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	0.200 CFS	16.00 AF
IRRIGATION	03/15 to 11/15	0.030 CFS	0.30 AF
<u>Totals:</u>		0.200 CFS	16.30 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 Adam Friedman Date 2-19-2015
 Reviewer [Signature] Date 2-19-2015

Determine the Quantity Diverted by Idaho Asphalt from the well.

Volume Calculations

Boilers

Thru-put meter

1,884,000 gallons

February 2, 2009 - January 7, 2010

$$\frac{1884000}{X} = \frac{365-26}{365}$$

Ratio to January - December

2,028,496

gallons per year

$$= 271,189$$

cubic feet per year

$$= 6.23$$

acre-feet per year

Emulsion Process

Annual Production

33000 tons of asphalt emulsion/year

40 % water

240 gallons/ton

$$33000 \times .40 \times 240 = 3,168,000$$

gallons of water/year

$$= 423,529$$

cubic feet of water/year

43,560 cubic feet of water per acre-foot

$$= 9.72$$

acre-feet/year

$$\text{Total Industrial Vol.} = 15.95$$

acre-feet/year

$$\text{Domestic Use} = 0.02$$

cubic feet/second

$$= 0.60$$

acre-feet/year

Total Volume Industrial and Domestic

$$= 16.55$$

acre-feet/year

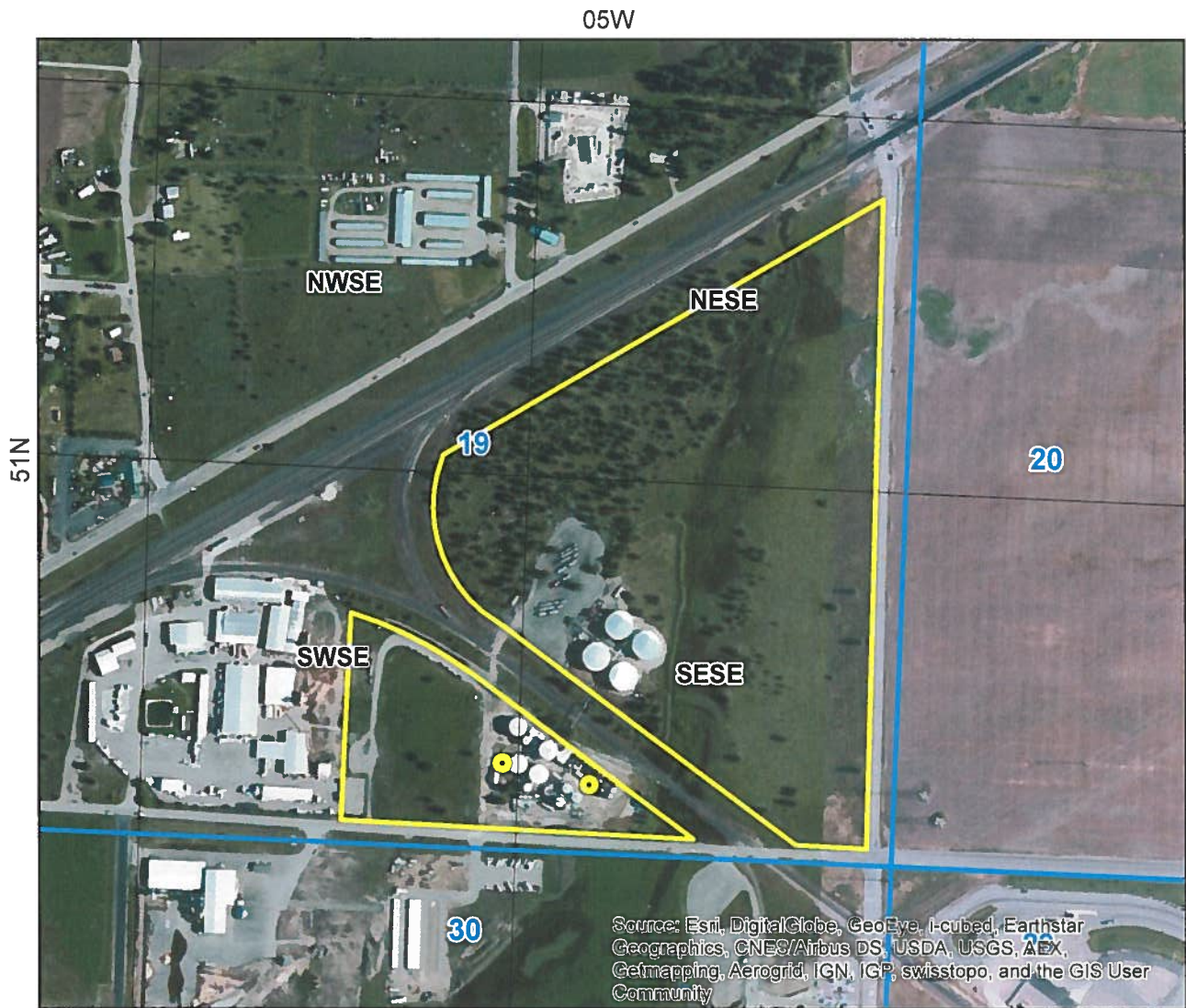
PUMPING EQUATION FOR WELL 95-8246

PUMP EQUATIONS WATER RIGHT No. 95- 12277						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	10	260.9524	0.8	170	35
Q = 0.270 cfs 121.3 gpm						

PUMPING EQUATION FOR WELL 95-93-N-2

PUMP EQUATIONS WATER RIGHT No. 95- 12277						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	10	291.0204	0.8	170	48
Q = 0.242 cfs 108.7 gpm						

State of Idaho
Department of Water Resources
Water Right License
95-12277



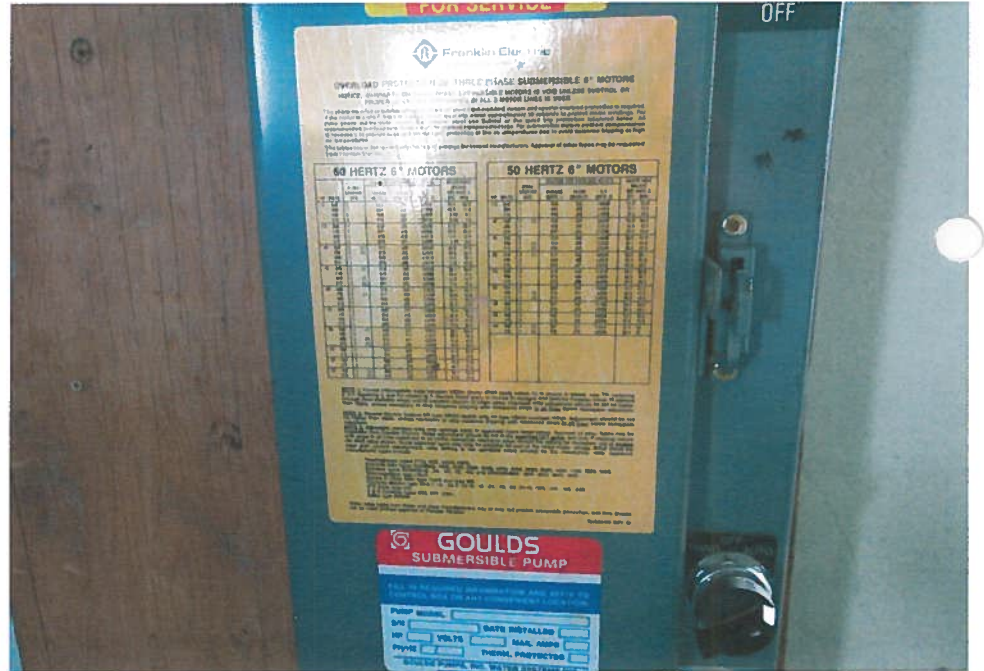
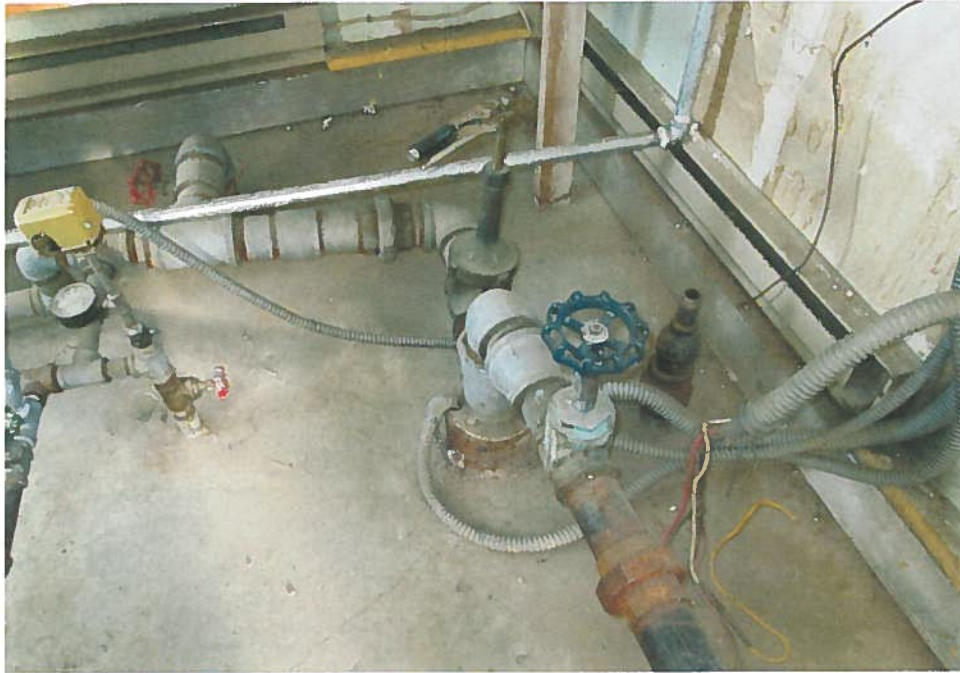
-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 0.075 0.15 0.3 Miles



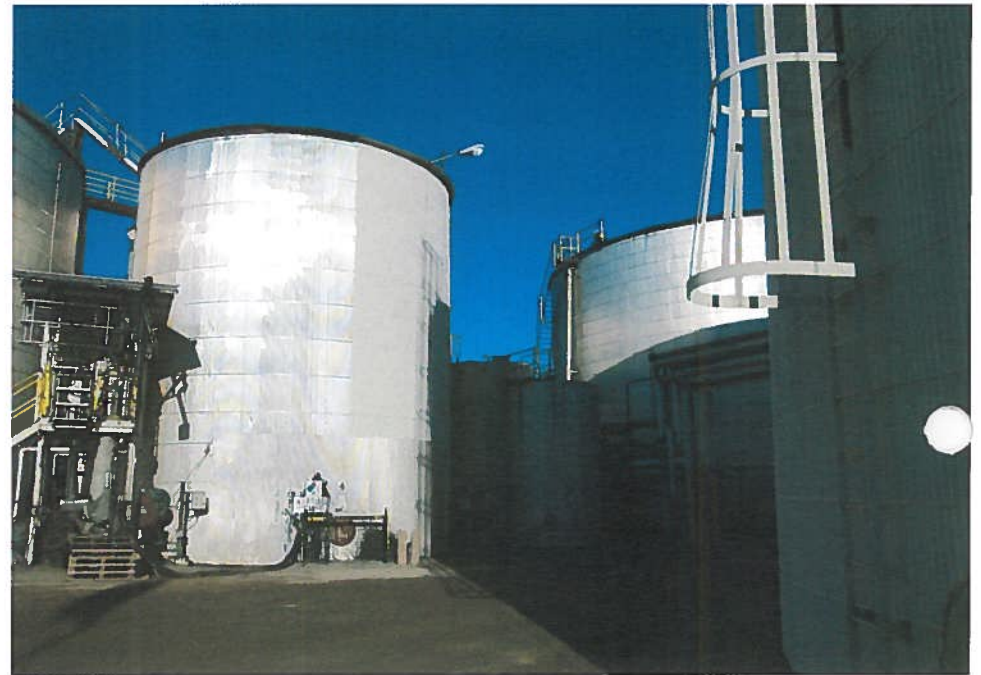


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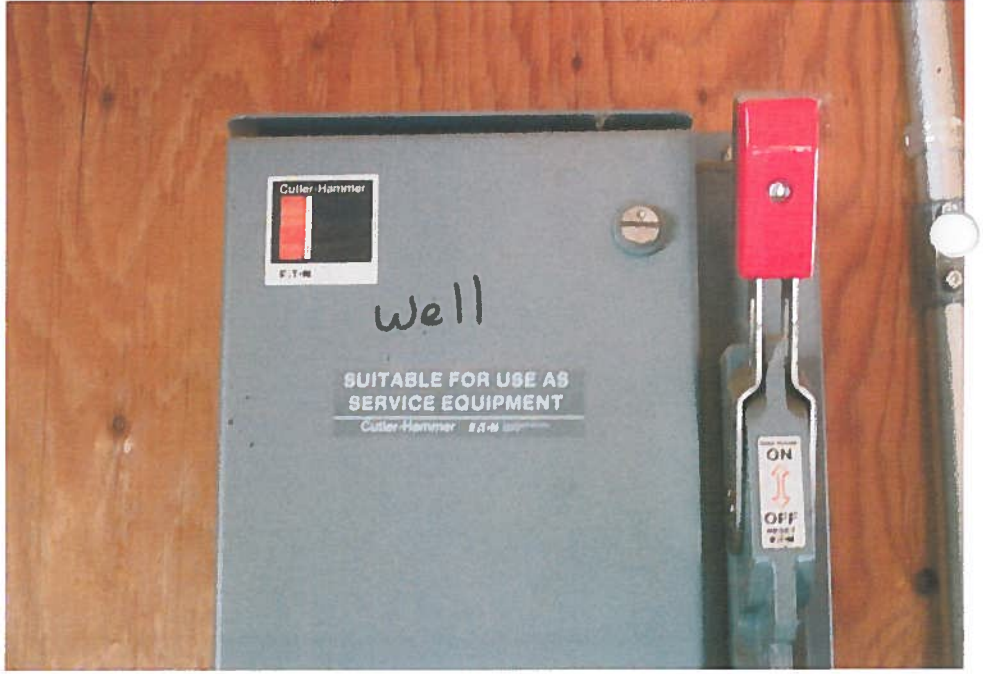
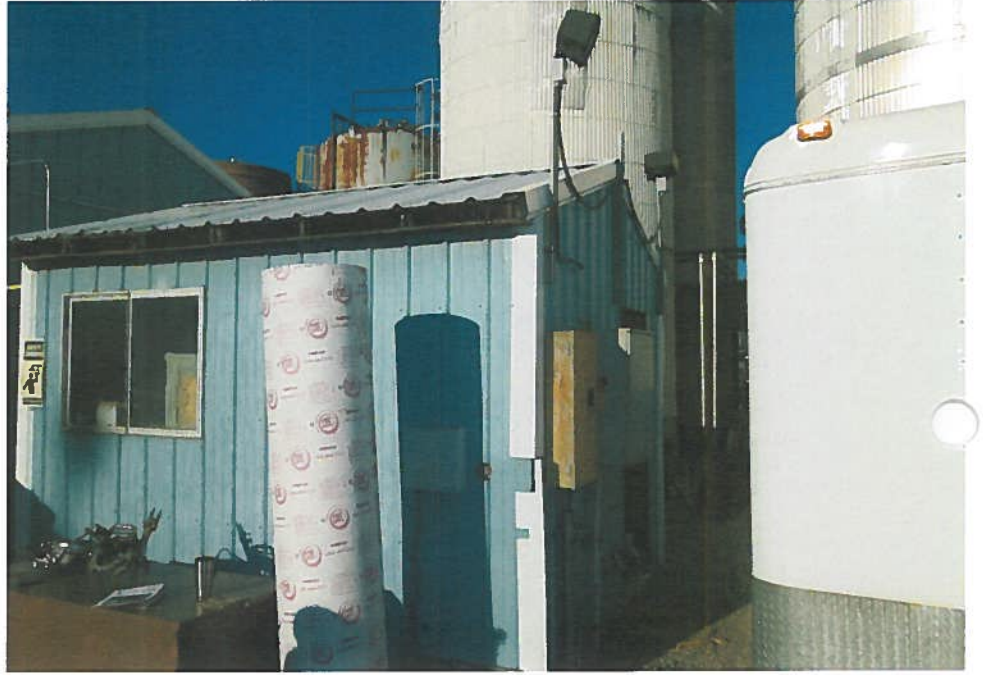


92-10777

137 FT TO WATER
AUG 5, 1990
PUMP AT 174'
183' TO WELL BOTTOM
DOUBLE FOOT VALVE
FRANKLIN MOTOR 10 HP
GOULD 5 CUP PUMP



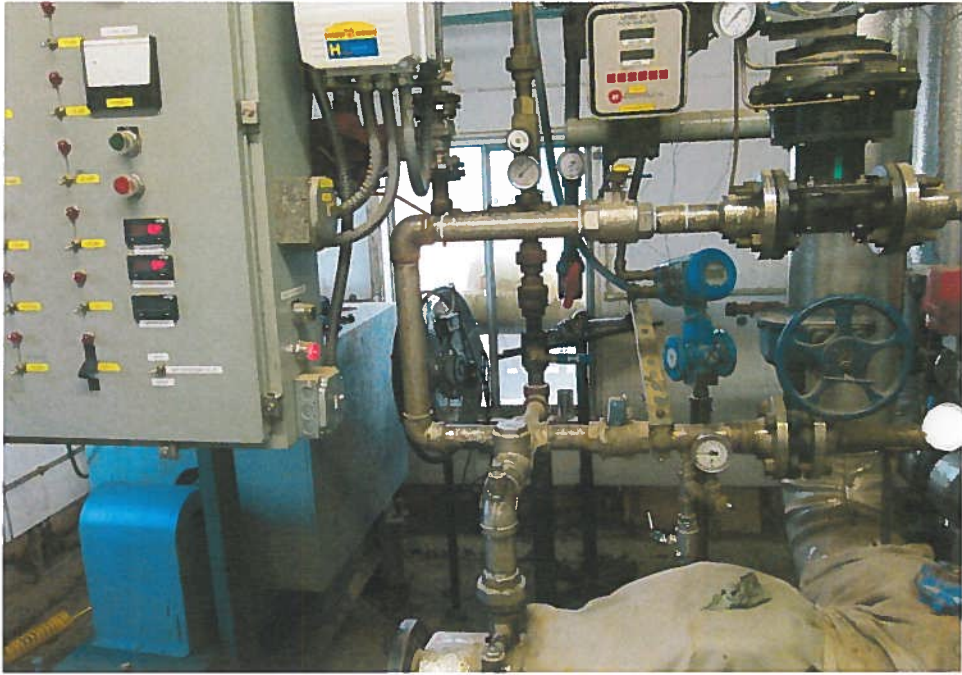
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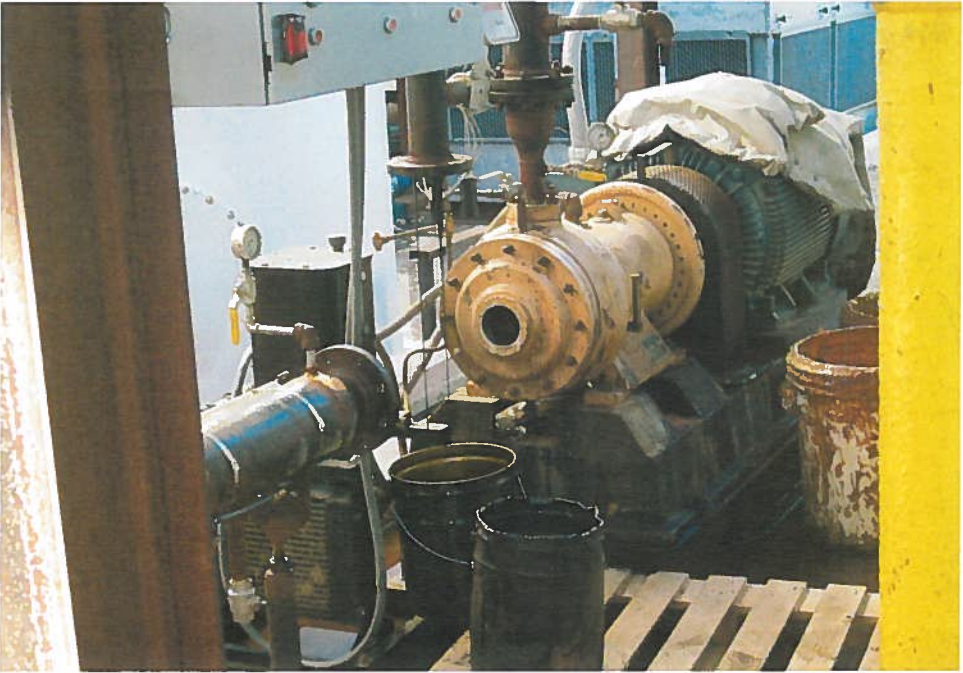
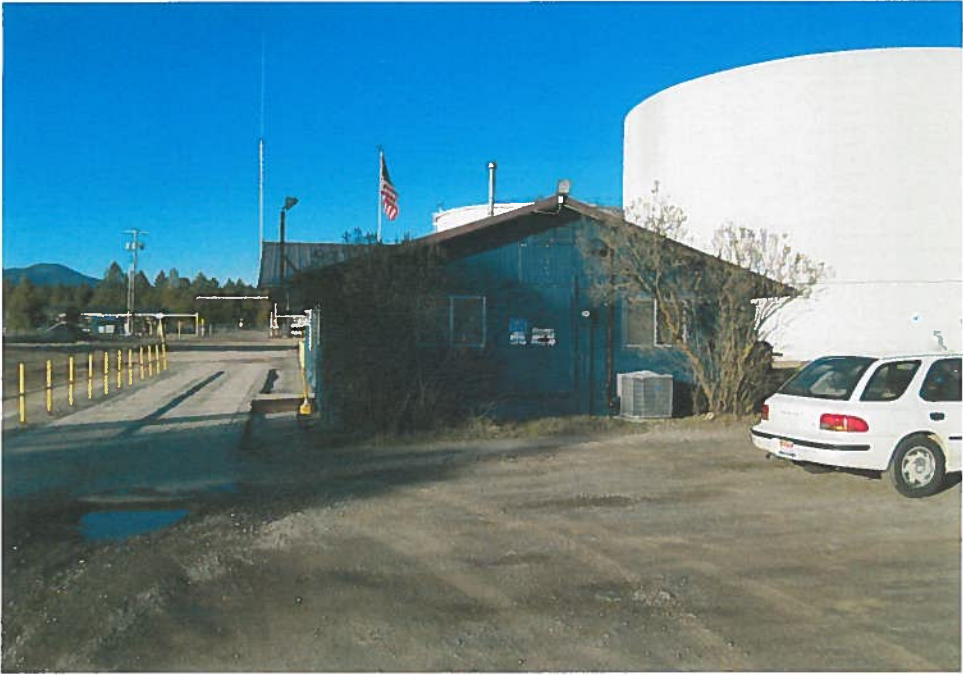
92-10077



95-10000



95-12.277



95-10277

USE TYPEWRITER OR
BALLPOINT PEN

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

[illegible]

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
BALLPOINT PENState law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion or abandonment of the well.**1. WELL OWNER**Name Idaho Asphalt Supply, Inc.Address W. 4325 Prairie Ave., Post Falls ID 83854Owner's Permit No. 95-8246**7. WATER LEVEL**Static water level 140 feet below land surface.Flowing? ☐ Yes ☒ No G.P.M. flow _____

Artesian closed-in pressure _____ p.s.i.

Controlled by: ☐ Valve ☐ Cap ☐ PlugTemperature _____ °F. Quality good**2. NATURE OF WORK**☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandonment) _____**8. WELL TEST DATA**☐ Pump ☐ Baller ☒ Air ☐ Other _____

Discharge G.P.M. _____ Pumping Level _____ Hours Pumped _____

80+ ESTIMATED AIRLIFT**3. PROPOSED USE**☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☒ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)**9. LITHOLOGIC LOG**

Hole	Depth		Material	Water
Disin.	From	To		Yes No
8"	0	83	Boulders, cobble, gravel	XX
6"	83	160	Cobble, gravel, coarse	XX
6"	160	182	Gravel, coarse, some fine	
			silt	X
6"	182	192	Gravel, coarse	X

4. METHOD DRILLED☐ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other _____**5. WELL CONSTRUCTION**Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
250 inches	8 inches	1	59 feet
250 inches	6 inches	1 1/2	192 feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was casing drive shoe used? ☒ Yes ☐ NoWas a packer or seal used? ☐ Yes ☒ NoPerforated? ☐ Yes ☒ NoHow perforated? ☐ Factory ☐ Knife ☐ Torch

Size of perforation _____ inches by _____ inches

Number	From	To
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

Well screen installed? ☐ Yes ☒ No

Manufacturer's name _____

Type _____ Model No. _____

Diameter _____ Slot size _____ Set from _____ feet to _____ feet

Diameter _____ Slot size _____ Set from _____ feet to _____ feet

Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____

Placed from _____ feet to _____ feet

Surface seal depth 59 Material used in seal: ☐ Cement grout☒ Puddling claySealing procedure used: ☐ Slurry pit ☐ Temp. surface casing☒ Overbore to seal depthMethod of joining casing: ☐ Threaded ☒ Welded ☐ Solvent☐ Cemented between strata

Describe access port _____

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____

Lot No. _____ Block No. _____

County Kootenai

X SE 1/4 Sec. 19, T. 51N, N/S, R. 5W, E/W.

10.Work started 3/18/83 Finished OCT 07 1984**11. DRILLERS CERTIFICATION**

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

Firm Name: FONDEROSA DRILLING Firm No. 7228

E. 6010 Broadway

Address Spokane, WA 99206 Date 3/22/83Signed by (Firm Official) [Signature]and R. Scott Borratt(Operator) [Signature]
Keith Vermillion