

MEMO

TO: File 45-7479

FROM: CPadilla

DATE: April 4, 2011

RE: Licensing Review Memo

Time Line:

Application for Permit Received: 9/11/81

Permit Approved: 11/4/81

Proof of Beneficial Use Received: 9/16/92

Field Exam Conducted: 8/30/94

POU: The field examiner found 15 acres that can be irrigated with ground water.

POU Overlap Analysis: The following rights overlap the POU for this right

Right	Priority	SRBA Status	Source	Rate	Acres that Overlap 45-7479
45-239	4/12/1892	Not Claimed	Land Ck	0.8	13
45-242B	4/12/1892	Not Claimed	Land Ck	1.28	15
45-277F	5/31/1877	Decreed	Land Ck	0.31	15
45-524B	5/31/1880	Not Claimed	Brim CK	0.23	15

The rights that have not been claimed in the SRBA have not been delivered by water district 45-F since at least 1994 (district records only go back to 1994). I think it's safe to exclude any other surface water on the POU other than 45-277F; water right 45-277F has been delivered every year since 1994.

PD Summary: There is one well that is used for this right. The field examiner based his recommendation of 0.33 cfs capacity on what the pump's rating. As a secondary check, I plugged the numbers into the hp equation:

$$8.8 \times 0.7 \times 10/30 + (2.31 \times 50) = 61.6/145.5 = 0.42 \text{ cfs or } 0.31 \text{ based on } 85' \text{ of lift.}$$

On 6/26/09 an order was issued by the director that requires any groundwater user within water district 140 to install a measuring device. Although the order requires the installation of the measuring device I cannot impose new restrictions at licensure of this right. According to WMIS it appears that a measuring device is in place.

Volume and Diversion Rate: The diversion rate and volume are limited by the duty of water. Since this right is supplemental to surface water, no maximum diversion volume applies.

Season: The current season of use standard for this area is 4/1-10/31, I have adjusted the season on the license.

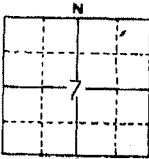
Amendment Needed?: No.

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Resources

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.

1. WELL OWNER Name <u>Waymon Yarbrough</u> Address <u>Albion Idaho</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u>30</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____	8. WELL TEST DATA ☐ Pump ☒ Bailer ☐ Other Discharge G.P.M. <u>15-15</u> Draw Down <u>5 ft</u> Hours Pumped <u>20 minute</u>
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type) _____ ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection	9. LITHOLOGIC LOG <u>85398</u> Hole Diam. Depth From To Material Water Yes No <u>0</u> <u>15</u> <u>sandy soil</u> <u>15</u> <u>40</u> <u>clay pans water 30'</u> <u>40</u> <u>57</u> <u>sand & gravel</u> <u>57</u> <u>65</u> <u>sandy clay</u> <u>65</u> <u>80</u> <u>capose sand</u> <u>80</u> <u>85</u> <u>clay</u> <u>85</u> <u>92</u> <u>gravel</u>
4. METHOD DRILLED ☒ Cable ☐ Rotary ☐ Dug ☐ Other	10. Work started <u>OCT 10, 1982</u> finished <u>OCT 25, 1982</u>
5. WELL CONSTRUCTION Diameter of hole <u>8</u> inches Total depth <u>92</u> feet Casing schedule: ☒ Steel ☐ Concrete Thickness <u>1/4</u> inches Diameter <u>8</u> inches From <u>0.1</u> feet To <u>92</u> feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet Was casing drive shoe used? ☒ Yes ☐ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☒ Yes ☐ No How perforated? ☐ Factory ☐ Knife ☒ Torch Size of perforation <u>1/2</u> inches by <u>5</u> inches Number <u>150</u> From <u>40</u> feet To <u>90</u> feet _____ 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 <u>0-20</u> Material used in seal ☐ Cement grout ☒ Puddling clay ☒ Well cuttings Sealing procedure used ☐ Sherry pit ☐ Temporary surface casing ☒ Overbore to seal depth	11. DRILLERS CERTIFICATION Firm Name <u>Yarbrough Drilling</u> Firm No. <u>96</u> Address <u>Box 513, Albion Idaho</u> Date <u>6/27/83</u> Signed by (Firm Official) <u>Waymon Yarbrough</u> and _____ (Operator) <u>Same</u>
6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>CASSIA</u> <u>12 S</u> <u>25 E</u> <u>NE 1/4 NE 1/4 Sec. 7, T. 12 S. N. 1/2, R. 25 E. E. 1/4</u>	

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE COPY TO THE DEPARTMENT