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ENGINEERING, LLC

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JUN 03 2009

WATER RESOURCES
WESTERN REGION

June 1, 2009

John Westra
Western Region Manager
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705

Subject: Test Plan for Permit 63-32185

Dear John:

In accordance with the requirements of Condition No. 6 of permit 63-32185, the attached memo outlines a plan for test pumping of the first well proposed under this permit. This test pumping plan is submitted for Department review and approval.

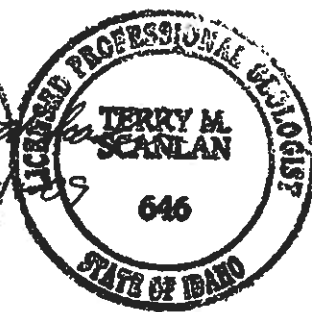
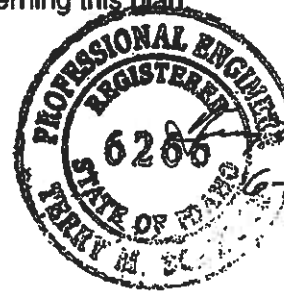
Please contact me with any questions or comments concerning this plan.

Sincerely,

Terry M. Scanlan, P.E., P.G.

Cc: Clair Kofoed – IDF&G Regional Habitat Biologist

File: 370.0020



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JUN 03 2009

WATER RESOURCES
WESTERN REGION**TECHNICAL MEMORANDUM**

DATE: June 1, 2009
TO: Clair Kofoed, IDF&G Regional Habitat Biologist
FROM: Mike Martin, P.E. and Terry Scanlan, P.E., P.G.
RE: Roswell Marsh Well Pumping Test Plan for Permit 63-32185

JOB NO.: 370.0020

The Idaho Fish & Game Commission applied in March 2005 for a permit to appropriate groundwater for wildlife and wildlife storage purposes at Roswell Marsh. The application was approved in October 2008 and authorized the Commission to develop 4.80 cfs (2,154 gpm) of groundwater for wildlife and diversion to wildlife storage purposes. The water right permit (63-32185) authorizes diversion from up to three wells. Condition No. 6 of the permit requires a pumping test of each well used as a point of diversion under the permit, with water-level monitoring at existing wells within a one-mile radius. A pumping test plan must be approved by Idaho Department of Water Resources (IDWR) prior to the pumping test.

This memo summarizes investigation of wells in the vicinity of the Idaho Department of Fish and Game (IDF&G) Roswell Marsh site, including SPF and IDF&G discussions with local well owners, IDF&G's follow-up correspondence with well owners that were unavailable during the site visit, and review of local well driller's reports. Based on these data, a well pumping test plan is provided.

Site Visit Summary

On February 12, 2009, Clair Kofoed (IDF&G), Mike Martin (SPF), and Terry Scanlan (SPF) visited twelve homes in the project vicinity, including seven homes within an approximate ½-mile radius of the proposed well site. Attachment A includes the preliminary site map and information obtained during the site visit. All homes visible on the aerial photo within or near the ½-mile radius were visited to identify existing wells. In addition, the IDWR water right database was queried to determine if any recorded irrigation water rights listing groundwater sources had points of diversion within the ½-mile radius. No groundwater-source irrigation water rights were identified, indicating that there should not be any irrigation wells present within the ½-mile radius.

Kofoed, Martin, and Scanlan obtained contact and well information from well owners at nine of the homes, and determined all nine of the well owners were willing to allow water-level monitoring in their wells during a pumping test of IDF&G's proposed Roswell Marsh production well. The remaining three well owners were not available during the visit. Kofoed visited with these well owners at a later date, and determined that these three well owners were also willing to participate in the test.

Based on these contacts, all seven property owners with wells located within a half mile of the IDF&G test well are willing to participate in the pumping test. All five of the property owners with wells outside the half mile distance are also willing to participate in testing. However, it appears that three of these wells (Keith Allender, Michael Sharkey, and Virgil Story) are currently inaccessible for water-level measurement due to well location or casing size restrictions.

The distance of existing domestic wells within a ½-mile radius from the proposed IDF&G production well range from approximately 900 feet (Rick Metheny) to 2600 feet (Bill Black).

Local Well Driller's Reports and Local Hydrogeology

The IDWR database was queried to identify well driller's reports with legal descriptions that are potentially within ½ mile of the proposed well site. We have correlated the well logs with property owners (current residents) based on the site visit, property ownership data in GIS, property address, and well log information. A table summarizing the surrounding residents from the site visit, possible well log, and pertinent well information is included in Attachment B. Also included in Attachment B are the well logs available from IDWR.

Review of well driller's reports for the area demonstrates that local wells generally draw water from sand and pea gravel layers that overly a thick sequence of blue clay or blue shale. The IDF&G test well penetrates these sand and pea gravel sediments from approximately 20 feet to a depth of 145 feet, interrupted by only 10 feet of blue clay with sand streaks from 100 to 110 feet.

The local wells with identified well driller's reports appear to penetrate to elevations ranging from approximately 2055 feet (IDF&G Test Well) to approximately 2200 feet (Greg Story). Most wells penetrate to depths between 2140 and 2200 feet. The proposed IDF&G production well will likely tap aquifer zones between elevations 2000 and 2125 feet. As a result, the proposed IDF&G production well will tap aquifer elevations below the bottom of most of the nearby wells.

Static water levels depend on location. Most wells in the near vicinity of the IDF&G test well have static water level elevations between approximately 2190 and 2210 feet, although a few wells have higher elevation static levels that may suggest some hydraulic separation in those wells from the aquifer zone tapped the IDF&G test well and other wells.

The driller's logs suggest that the aquifer is likely semi-confined or unconfined with relatively high transmissivity. Typical hydraulic parameters for an aquifer of this nature might range within an order of magnitude of 200,000 gpd/ft transmissivity and 0.02 storativity. Theoretical drawdowns after 24 hours of pumping at 2000 gpm (4.5 cfs) for these aquifer parameters calculated using the Theis Equation are 9.7 feet at a radius of 25 feet (IDF&G Test Well), 1.7 feet at a radius of 900 feet (Metheny), and 0.14 feet at a radius of 2600 feet (Bill Black). After 48 hours of pumping, theoretical drawdowns at these radii increase to 10.51 feet, 2.38 feet, and 0.49 feet, respectively. These calculations demonstrate that the near-well monitoring wells should experience substantially more water-level response to test pumping than the more distant monitoring wells. Furthermore, the near-well water-level responses can be used to project impacts to distant wells under sustained pumping.

Pumping Test Plan

Condition No. 6 of permit 63-32185 states

The right holder shall conduct a pump test at a well used as a point of diversion in the test shall be designed and conducted by a hydrologist, geologist, or engineer before being conducted. The pump test shall be associated with pump tests for the observation well(s) used for the purpose of the data collected during the pump test. The Department upon request. This or written notification to the Department to obtain permission for pump test activities from owners of wells within a one-half mile radius from any point of diversion developed under this right.

-Monitoring? measuring method?

SWL should be measured early a.m. after overnight recovery. Will owners of these wells be notified not to use wells during test?

Monitoring Wells. SPF proposes to monitor water levels in all of the eight identified wells located within a half-mile distance of the proposed IDF&G production well. These wells are listed below.

- IDF&G test well
- Roy Little
- Rick Metheny
- Denis Barnard
- Greg Story
- Renee Condie
- Leda Black
- Bill Black

It is possible that one or more of these wells will be impacted. In such event, impacts to that well can be projected.

Need to know
≈ rate 5gpm? -
2000gpm?

24hrs is a short test
for highly trans. aqu.?

Test Procedure. The pumping test procedure shall include the following pumping activities. Water-level and pumping rate shall be monitored by IDF&G personnel, and the test pumping contractor.

1. Determine the target pumping rate for the minimum 24-hour duration constant rate pumping test. Pumping rate will be the maximum sustainable rate with the test pump and well, and will be estimated by a step-rate test to determine productivity of the well at various flow rates. The step-rate test will be concluded a minimum of 48 hours prior to the constant-rate pumping test.
2. Measure static water levels in the eight selected monitoring wells. Static water levels will be measured at least twice prior to the 24-hour constant rate test, with one measurement on the day prior to the 24-hour test and the second measurement within 4 hours of the start of the 24-hour test.
3. Conduct a minimum 24-hour duration constant rate pumping test. Water levels will be measured in the pumping well and the eight monitoring wells. Flow rate will be kept

Pumping Test Plan

Condition No. 6 of permit 63-32185 states the following.

The right holder shall conduct a pump test of at least twenty-four hours for each well used as a point of diversion in connection with this water right. The pump test shall be designed and conducted by a qualified professional, such as a hydrologist, geologist, or engineer, and shall be approved by the Department before being conducted. The pump test shall measure all standard parameters associated with pump tests for the right holder's well(s) being tested and for any observation well(s) used for the pump test. The right holder shall keep records of the data collected during the pump test and shall make it available to the Department upon request. This condition is waived if the right holder provides written notification to the Department documenting unsuccessful attempts to obtain permission for pump test activities from owners of wells located within a one-half mile radius from any point of diversion developed under this right.

Monitoring Wells. SPF proposes to monitor water levels in all of the eight identified wells located within a half-mile distance of the proposed IDF&G production well. These wells are listed below.

- IDF&G test well
- Roy Little
- Rick Metheny
- Denis Barnard
- Greg Story
- Renee Condie
- Ledas Black
- Bill Black

It is possible that one or more of these wells will not be measurable due to casing obstructions. In such event, impacts to that well can be projected based on measurements in other nearby wells.

Test Procedure. The pumping test procedure is outlined below. SPF will supervise test pumping activities. Water-level and pumping rate measurements will be collected by SPF, IDF&G personnel, and the test pumping contractor.

1. Determine the target pumping rate for the minimum 24-hour duration constant rate pumping test. Pumping rate will be the maximum sustainable rate with the test pump and well, and will be estimated by a step-rate test to determine productivity of the well at various flow rates. The step-rate test will be concluded a minimum of 48 hours prior to the constant-rate pumping test.
2. Measure static water levels in the eight selected monitoring wells. Static water levels will be measured at least twice prior to the 24-hour constant rate test, with one measurement on the day prior to the 24-hour test and the second measurement within 4 hours of the start of the 24-hour test.
3. Conduct a minimum 24-hour duration constant rate pumping test. Water levels will be measured in the pumping well and the eight monitoring wells. Flow rate will be kept

constant throughout the test. Water-level measurements will be obtained on a frequent basis in the pumping well, IDF&G test well, and the two closest observation wells (Metheny and Little). Less frequent measurements will be collected from the more distant monitoring wells. All wells will be measured at least once within 4 hours prior to the end of the pumping portion of the test. Pumping will continue until a consistent water-level trend is identified in the pumping well and nearby monitoring wells. In no case, will pumping duration be less than 24 hours. Temperature and conductivity of the water pumped from the production well will be measured during the pumping test.

4. Measure water-level recovery. Following cessation of pumping, water levels will be measured in the pumping well and any of the eight monitoring wells that demonstrated drawdown during the constant-rate portion of the pumping test. Water-levels will be measured within a few hours of the end of pumping, and again approximately 24-hours following the end of pumping.

Water-level measurements will be obtained using electric-line well sounders, with measurements accurate to within 0.01 feet. Pumping rate measurements will be made using the orifice method (i.e., circular weir and manometer). The constant-rate pumping test will be scheduled to start and end sometime between 10 am and noon, to allow adequate time to measure monitoring well water levels prior to starting and stopping the pump.

Pumping Test Analysis. Following completion of the constant-rate pumping test, the test data will be compiled, analyzed, and presented in a report. The analysis will include calculation of aquifer hydraulic parameters (transmissivity and storativity), estimates of future pumping levels in the production well for various rates and durations of pumping, and estimates of impacts to monitored local wells based on test responses and aquifer hydraulics. The pumping test report will be provided to IDWR within 60 days of completion of test pumping.

Attachment A – Preliminary Site Map and Field Data

Roswell Marsh Site Visit Summary

Current Resident	Well Diameter (in)	Willingness to Participate?	Notes
Michael Sharkey	3	Y	SWL was 50', old well
Chuck Roberts	8	Y	well location unknown, 722-5398, log under Marvin Abbott - former property owner?
Virgil Story	4	Y	warm stinky water, well in pit - no access
Roy Little	6	Y	well under windmill
Rick Metheny	6	Y	722-7703, log under Denis Barnard? Used same info
Denis Barnard	6	Y	well location unknown
Greg Story	6	Y	well next to shed
Ron Story	6	Y	well location unknown
Renee Condie	6	Y	722-7983
Ledas Black	6	Y	722-5776, Log under Larry Black?
Bill Black	6	Y	722-7289
Rob Morgan	6	Y	722-6058 off, 250-3912 cell
Keith Allender		Y	412-8246, well in pit - no access

Attachment B – Roswell Marsh Well Log Search Summary

Roswell Marsh Well Log Search Summary

Current Resident	Within 1/2 Mile?	Well Log?	Well ID	Well Diameter (in)	Static Water Level (ft)	Approx. Ground Elev. (ft)	Approx. Static GW Elev. (ft)	Comments
IDF&G Test Well	Y	Y	1	6	10	2200	2190	test well approximately 25 feet from proposed well
Roy Little	Y	Y	2	6	42	2240	2198	well under windmill, 866-7704
Rick Metheny	Y	N	3	6	47	2245	2198	722-7703, log under Denis Barnard? Used same info since Rick mentioned Denis owned property
Denis Barnard	Y	Y	3	6	47	2290	2243	well location unknown, Clair contacted
Greg Story	Y	N		6		2380		well next to shed
Renee Condie	Y	N		6		2325		722-7983
Ledas Black	Y	Y?	4	6	91	2300	2209	722-5776, log possibly under Larry Black
Bill Black	Y	N		6		2375		722-7289
Chuck Roberts	N	Y?	5	8	18	2220	2202	well location unknown - irrigation well behind house, 722-5398, log possibly under Marvin Abbott - former property owner
Virgil Story	N	N		4		2225		warm stinky water, well in pit - no access
Rob Morgan	N	Y	6	6	90	2315	2225	722-6058 office, 250-3912 cell,
Keith Allender	N	N				2220		412-8246, well in pit - no access
Michael Sharkey	N	N		3	90	2246		SWL was 50', old well
Ron Story	N	Y	7	6	145	2370	2225	well location unknown

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only		
Well ID No.	815532	
Inspected by		
Twp	Rge	Sec
1/4	1/4	1/4
Lat:	:	Long:

1. WELL TAG NO. D 0031214
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:

Name Idaho Dept. of Fish & Game
Address P.O. Box 25 600 S. Walnut
City Boise State ID Zip 83724

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 5 North 25 or South
Rge. 6 East or West 25
Sec. 25 1/4 SW 1/4 NE 1/4
Gov't Lot _____
County Latah
Lat: _____ Long: _____
Address of Well Site Pebble Lane S. Hwy 18
City Boise

Lt. _____ Blk. _____ Sub. Name _____

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 Material	From	To	Weight / Volume	Seal Placement Method
3/8 Bentone	0	18	10 Bags	Dry pour 10"

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 145
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
10"	1.10	145	20	Steel	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☐ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method Half Air Perforance
Screen Type & Method of Installation _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
85	95	8	perforations			☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
1/2" / 1/4"				

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

10 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: _____
Sanitary Well Cap

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
45	35'	80	1 Hrs

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore	From	To	Remarks: Lithology, Water Quality & Temperature	Water
Ois.				Y N
10"	0	3	top soil	
10"	3	110	Brown clay	
10"	110	20	fine sand	
10"	20	78	gravel	
10"	78	80	Cemented Sand	
10"	80	100	coarse sand & pea gravel	
10"	100	110	blue clay & sand & gravel	
10"	110	120	fine sand & pea gravel	
10"	120	135	coarse sand & pea gravel	
10"	135	145	fine sand & pea gravel	

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JUL 08 2004

WATER RESOURCES
WESTERN REGIONCompleted Depth 145 (Measurable)Date: Started 5-17-04 Completed 5-25-04

14. DRILLER'S CERTIFICATION

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

Company Name Richmond & Co Firm No. 333

Principal Driller _____ Date _____

Driller or Operator _____ Date 6-25-04

Operator _____ Date _____

Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.

FORWARD WHITE COPY TO WATER RESOURCES

Date: 12/03/98 Time: 1:45 PM

1. DRILLING PERMIT NO. 63-95-W-0681-000
Other IDWR No. _____

2. OWNER:
Name Harry Black
Address P.O. Box 812
City Parma State IL Zip 83660

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

N
 W X E
 S
 Twp. 5 North ☒ or South ☐
 Rge. 6 East ☐ or West ☒
 Sec. 25 1/4 SW 1/4 NW 1/4
 Govt Lot _____ 10 acres _____ 40 acres _____ 160 acres
 County Canyon
 Address of Well Site 25250
Labin Rd. City Parma
 (Circle all locations around a distance in Road or Landmark)

Lt. _____ Blk. _____ Sub. Name _____

4. PROPOSED USE:

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

5. TYPE OF WORK

☒ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD

☐ Mud Rotary ☒ Air Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Benonite	0	18	600#	Overburc

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 139"
Was drive shoe seal tested? Y ☐ N ☐ How?

8. CASING/LINER:

Diameter	From	To	Gauges	Material	Casing	Lines	Welded	Threaded
6"	+1.5	139	250	Steel	☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method _____

☐ Screens Screen Type _____

From	To	Slot Size	Mount	Diameter	Material	Casing	Linear
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

97 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or
control devices: Security Well Cap

11. WELL TESTS:

☐ Pump ☐ Baler ☒ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
20		140	

Water Temp. 59° Bottom hole temp. 59°

Water Quality test or comments:

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10	0	3	Topsoil		X
"	3	18	Sand & Clay Mixed		
6"	18	30	Fine Sand		
	30	40	Sand & Gravel		
	40	82	" "		
	82	100	Fine Sand		
	100	120	Brn Sandy Clay		
	120	140	" " "		
	140	150	" " "		
	150	155	Sand & Peg Gravel	X	

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DEC 04 1995

~~Department of Water Resources~~

RECEIVED

~~RECEIVED~~

D.F.C. 017 1998

APR 07 1999

DEC 05 1995

Department of Water Resources

**WATER RESOURCES
WESTERN REGION**

Completed Depth 155' (Measurable)
Date: Started 11/22/95 Completed 11/28/95

13. DRILLER'S CERTIFICATION

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

Firm Name Riverside Inc. Firm No. 333

Firm Official J. A. D. [Signature] Date 11/30/95

Supervisor or Operator _____ Date _____

(Stop once if Firm Official & Operator)

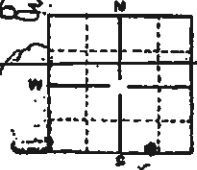
FORWARD WHITE COPY TO WATER RESOURCES

WELL DRILLER'S REPORT

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5

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. JUN 25 1975

1. WELL OWNER Name <u>Marvin Abbott</u> Address <u>Parma, Idaho</u> Owner's Permit No. _____		7. WATER LEVEL Department of Water Resources Static water level <u>19'</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 ☒ Bailor ☐ Other Discharge G.P.M. <u>40 gal</u> Draw Down <u>20'</u> Hours Pumped <u>1 hr</u>																																									
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type) _____ ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection		9. LITHOLOGIC LOG <u>31834</u> <table border="1"><thead><tr><th rowspan="2">Hole Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td>8"</td><td>1'</td><td>3'</td><td>Loose soil</td><td></td><td>☒</td></tr><tr><td>8"</td><td>4'</td><td>24'</td><td>Hardpan</td><td></td><td>☒</td></tr><tr><td>8"</td><td>25'</td><td>40'</td><td>Silt</td><td></td><td>☒</td></tr><tr><td>8"</td><td>41'</td><td>62'</td><td>Soft blue clay</td><td></td><td>☒</td></tr><tr><td>8"</td><td>67'</td><td></td><td>Gravel</td><td></td><td>☒</td></tr></tbody></table>		Hole Diam.	Depth		Material	Water		From	To	Yes	No	8"	1'	3'	Loose soil		☒	8"	4'	24'	Hardpan		☒	8"	25'	40'	Silt		☒	8"	41'	62'	Soft blue clay		☒	8"	67'		Gravel		☒
Hole Diam.	Depth		Material		Water																																						
	From	To		Yes	No																																						
8"	1'	3'	Loose soil		☒																																						
8"	4'	24'	Hardpan		☒																																						
8"	25'	40'	Silt		☒																																						
8"	41'	62'	Soft blue clay		☒																																						
8"	67'		Gravel		☒																																						
4. METHOD DRILLED ☒ Cable ☐ Rotary ☐ Dug ☐ Other																																											
5. WELL CONSTRUCTION Diameter of hole <u>8</u> inches Total depth <u>67</u> feet Casing schedule: ☒ Steel ☐ Concrete Thickness <u>3/80</u> inches Diameter <u>8</u> inches From <u>1</u> feet To <u>67</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 _____ 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 <u>25'</u> Material used in seal ☐ Cement grout ☒ Puddling clay ☐ Well cuttings Sealing procedure used ☐ Slurry pit ☐ Temporary surface capping ☒ Overbore to seal depth																																											
6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Canyon</u> <u>SW</u> x <u>SE</u> x Sec. <u>19</u> T. <u>5</u> N. & R. <u>5</u> W		10. 1975 Work started <u>June 3</u> finished <u>June 6</u>																																									
		11. DRILLERS CERTIFICATION Firm Name <u>Nicholsen Well Drilling</u> Firm No. <u>288</u> Address <u>213 Coach Lane</u> <u>Ontario, Oregon 97914</u> Date <u>June 30</u> Signed by (Firm Official) <u>Sam O. Nicholsen</u> and (Operator) <u>Sam O. Nicholsen</u>																																									

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE COPY TO THE DEPARTMENT

FORWARD WHITE COPY TO WATER RESOURCES

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Resources

WELL DRILLER'S REPORT

RECEIVED

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.

JUN 26 1978

1. WELL OWNER Name <u>RON STORY</u> Address <u>R#3 FARMER, FARM</u> Owner's Permit No. _____		7. WATER LEVEL Static water level <u>135</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature <u>55</u> ° F. Quality <u>GOOD</u> 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</u> Draw Down <u>0</u> Hours Pumped <u>6</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type) _____ ☐ Municipal ☐ Industrial ☒ Stock ☐ Waste Disposal or Injection		9. LITHOLOGIC LOG																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
4. METHOD DRILLED ☒ Cable ☐ Rotary ☐ Dug ☐ Other		<table border="1"><thead><tr><th rowspan="2">Hole Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td>5"</td><td>1</td><td>16</td><td>Soil</td><td></td><td>X</td></tr><tr><td>6"</td><td>16</td><td>20</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>20</td><td>25</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>25</td><td>30</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>30</td><td>35</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>35</td><td>40</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>40</td><td>45</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>45</td><td>50</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>50</td><td>55</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>55</td><td>60</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>60</td><td>65</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>65</td><td>70</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>70</td><td>75</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>75</td><td>80</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>80</td><td>85</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>85</td><td>90</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>90</td><td>95</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>95</td><td>100</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>100</td><td>105</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>105</td><td>110</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>110</td><td>115</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>115</td><td>120</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>120</td><td>125</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>125</td><td>130</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>130</td><td>135</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>135</td><td>140</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>140</td><td>145</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>145</td><td>150</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>150</td><td>155</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>155</td><td>160</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>160</td><td>165</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>165</td><td>170</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>170</td><td>175</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>175</td><td>180</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>180</td><td>185</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>185</td><td>190</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>190</td><td>195</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>195</td><td>200</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>200</td><td>205</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>205</td><td>210</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>210</td><td>215</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>215</td><td>220</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>220</td><td>225</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>225</td><td>230</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>230</td><td>235</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>235</td><td>240</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>240</td><td>245</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>245</td><td>250</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>250</td><td>255</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>255</td><td>260</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>260</td><td>265</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>265</td><td>270</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>270</td><td>275</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>275</td><td>280</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>280</td><td>285</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>285</td><td>290</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>290</td><td>295</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>295</td><td>300</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>300</td><td>305</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>305</td><td>310</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>310</td><td>315</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>315</td><td>320</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>320</td><td>325</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>325</td><td>330</td><td>Clay</td><td></td><td>X</td></tr><tr><td>6"</td><td>330</td><td>335</td><td>Clay</td><td></td><td>X</td></t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5. WELL CONSTRUCTION Diameter of hole <u>6</u> inches Total depth <u>191</u> feet Casing schedule: ☒ Steel ☐ Concrete Thickness <u>250</u> inches Diameter <u>6</u> inches From <u>1</u> feet To <u>191</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 _____ 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 <u>20</u> Material used in seal ☐ Cement grout ☒ Padding clay ☐ Well cuttings Sealing procedure used ☐ Slurry pit ☒ Temporary surface casing ☒ Overbore to seal depth		10. Work started <u>5/26/78</u> finished <u>5/26/78</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
6. LOCATION OF WELL Sketch map location must agree with written location. County <u>Cassia</u> Lot <u>2</u> Subdivision Name _____ Lot No. _____ Block No. _____ T. <u>5</u> N. R. <u>5</u> E. S. <u>1</u> SW 1/4 NW 1/4 Sec 30		11. DRILLERS CERTIFICATION Firm Name <u>Boyer Drilling</u> Firm No. _____ Address <u>Boyer Drilling</u> Date <u>5/26/78</u> Signed by (Firm Official) _____ and _____ (Operator) _____																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE COPY TO THE DEPARTMENT

JVELL 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]

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

IDAHO DEPARTMENT OF WATER RESOURCES

Water Permit Report 63-32185

WATER RIGHT NUMBER: 63-32185

<u>Owner Type</u>	<u>Name and Address</u>
Current Owner	STATE OF IDAHO IDAHO FISH & GAME COMMISSION PO BOX 25 BOISE, ID 83707-0025 (208)334-3700

Priority Date: 03/29/2005

Basis:

Status: Active

<u>Source</u>	<u>Tributary</u>
GROUND WATER	

<u>Beneficial Use</u>	<u>From</u> <u>To</u>	<u>Diversion Rate</u>	<u>Annual Volume</u>
DIVERSION TO STORAGE	01/01 to 12/31	4.800 CFS	
WILDLIFE	01/01 to 12/31	4.800 CFS	
WILDLIFE STORAGE	01/01 to 12/31		360.00 AF
	<u>Total Diversion:</u>	4.800 CFS	

Location of Point(s) of Diversion

GROUND WATER	NW1/4NE1/4	Sec. 25, Twp 05N, Rge 06W, B.M.
CANYON County		
GROUND WATER	SW1/4NE1/4	Sec. 25, Twp 05N, Rge 06W, B.M.
CANYON County		
GROUND WATER	SE1/4NW1/4	Sec. 25, Twp 05N, Rge 06W, B.M.
CANYON County		

Place of Use

DIVERSION TO STORAGE

Twp Rge Sec	NE				NW				SW				SE				
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals

WILDLIFE

Twp Rge Sec	NE				NW				SW				SE				
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
05N 06W 25		X	X		X	X	X	X									

WILDLIFE STORAGE

IDAHO DEPARTMENT OF WATER RESOURCES

Water Permit Report 63-32185

WILDLIFE STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
05N	06W	25	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
				X	X		X	X	X	X									

Conditions of Approval:

1. 046 Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
2. The right holder shall conduct a pump test of at least twenty-four hours for each well used as a point of diversion in connection with this water right. The pump test shall be designed and conducted by a qualified professional, such as a hydrologist, geologist, or engineer, and shall be approved by the Department before being conducted. The pump test shall measure all standard parameters associated with pump tests for the right holder's well(s) being tested and for any observation well(s) used for the pump test. The right holder shall keep records of the data collected during the pump test and shall make it available to the Department upon request. This condition is waived if the right holder provides written notification to the Department documenting unsuccessful attempts to obtain permission for pump test activities from owners of wells located within a one-half mile radius from any point of diversion developed under this right.
3. If the right holder is notified by the Department and/or by another well owner that use under this right has allegedly injured a well that was constructed and used prior to approval of this right, the right holder shall cease pumping and shall notify the Department in writing. The Department shall require pump testing by the right holder to determine if the use of this right has injured senior right holders. Pumping under this right shall not resume until the Department has issued written notification to the right holder that either (a) the right holder has demonstrated injury has not occurred, or (b) the right holder has demonstrated injury has occurred but the diversion and use under this right have not caused the injury, or (c) the right holder has demonstrated injury has occurred and that the right holder will mitigate the injury. A mitigation plan shall be approved by the Department prior to any mitigation activity.
4. 01M After specific notification by the Department, the right holder shall install a suitable measuring device(s) or shall enter into an agreement with the Department to use power records to determine the amount of water diverted from all authorized points of diversion under this approval and shall annually report the information to the Department.
5. 121 The Director retains jurisdiction to require the right holder to provide purchased or leased natural flow or stored water to offset depletion of Lower Snake River flows if needed for salmon migration purposes. The amount of water required to be released into the Snake River or a tributary, if needed for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this permit.
6. 004 This right does not grant any right-of-way or easement across the land of another.
7. Wildlife use is for the Roswell Marsh Wildlife Habitat Area.
8. In accordance with sections 42-1710 through 42-1721, Idaho code, a dam or artificial barrier, together with appurtenant works, which is or will be ten (10) feet or more in height or will have an impounding capacity at maximum storage elevation of fifty (50) acre-feet or more, shall be subject to regulation by the Department of Water Resources.
9. 26A Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which the permit holder had no control.

Remarks:

IDAHO DEPARTMENT OF WATER RESOURCES

Water Permit Report 63-32185

Comments:

1. jhersley 10/24/2008 3:24:30 PM POD
Comment: Updated Shape

2. jhersley 10/24/2008 3:25:28 PM POD
Comment: Updated Shape

3. jhersley 10/24/2008 3:26:14 PM POD
Comment: Updated Shape

4. jhersley 10/24/2008 3:29:57 PM POU
Comment: Updated Shape

5. jhersley 10/24/2008 3:30:25 PM POU
Comment: Updated Shape

6. jhersley 10/24/2008 3:30:50 PM POU
Comment: Updated Shape

7. slester 10/28/2008 P/U Correction

Comment: Permit approval inadvertently included diversion to storage in place of use. That should not be included in P/U and was deleted today to correct the record. However, it should not be necessary to issue an amended permit approval since no harm is done to permit holder and no advantage is gained by permit holder by this data entry mistake.

Water Supply Bank:



Property ID	Property Owner	Well Log?
1	Lowell, David H	Y
2	Fowl, Inc	N
3	Sharkey, John Michael	N
4	Idaho Fish & Game, The	N
5	Story Farms, Inc	N
6	Little, Roy	N
7	Idaho Dept Of Fish & Game	Y
8	Wethery, Rick	N
9	Little, Roy	Y
10	Oodro, Kenneth L	N
11	Barnard, Denis W	Y
12	Story, Gregory Earl	N
13	Allender, Mary Ellen	N
14	Agwild, Inc	N
15	Black, Larry D	N
16	Black, Larry D	Y
17	Allender, Mary Ellen	N
18	Black, Bill H	N
19	Black, Hinton	N
20	Morgan, Robert D	Y
21	Black, Hinton L	N
22	Laird, Larry	N
23	Roswell Duck Club, LLC	N
24	Vytal, Richard Keith	N
25	Vytal, Richard Keith	N
26	Abbott, Marvin F	Y
27	Story Farms, Inc	Y,2
28	Story Farms, Inc	N
29	Story, Gregory Earl	N
30	Story, Ronald L	N
31	Agwild, Inc	N
32	Abbott, Marvin F	N
33	Story, Larry	N

Property Ownership Within
a Half Mile of Test Well

