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JUL 29 2019

DEPARTMENT OF
WATER RESOURCES

Claim 3 (Well 1)

Form No.42-1409-1 (Internet 5/17)

**IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE
STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS**

**IN RE THE GENERAL ADJUDICATION
OF RIGHTS TO THE USE OF WATER FROM
THE PALOUSE RIVER BASIN WATER SYSTEM**

CIVIL CASE NUMBER: 59576

Claim ID: 82-11368

Date Received: 7/29/19

Receipt No: C101195

Claim Fee: \$184.00 By: DE by GJ

**NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW**

Please type or print clearly

1. Name of claimant(s) City of Moscow Phone (208) 837-7028
Mailing address PO Box 9203 Moscow ID 83843-9203
Street or Box City State
Email address (optional) _____
2. Date of priority: (Only one per claim) 4/1/1931 (Explain priority date selected in Remarks)
Month/Day/Year (YYYY)
3. Source of water supply (Check one) Ground Water (✓) or Other () (a) _____
which is tributary to (b) _____
4. a. Location of point of diversion is: Township 39N, Range 5W, Section 7,
NE 1/4 of SE 1/4, Govt. Lot _____, BM, County of Latah
Parcel no. _____
Additional points of diversion, if any: see attached supplement (Attachment A)
If available, GPS Coordinates _____
- b. If instream flow, beginning point of claimed instream flow is:
Township _____, Range _____, Section _____, _____ 1/4 of _____ 1/4,
Govt. Lot _____, BM, County of _____
Ending point is: Township _____, Range _____, Section _____, _____ 1/4 of _____ 1/4,
Govt. Lot _____, BM, County of _____
5. Description of existing diversion works (dams, reservoirs, ditches, wells, pumps, pipelines, headgates, etc.),
including the dates of any changes or enlargements in use, the dimensions of the diversion works as
constructed and as enlarged and the depth of each well.
Integrated ground water distribution system in place January 1, 2006 pursuant to § Idaho Code 42-1425 (the
accomplished transfer statute).

6. Water is claimed for the following purposes:

(dates are inclusive MM-DD) (cfs) (acre-feet)

For Municipal purposes from 1/1 to 12/31 amount 1.34 or _____

For _____ purposes from _____ to _____ amount _____ or _____

For _____ purposes from _____ to _____ amount _____ or _____

For _____ purposes from _____ to _____ amount _____ or _____

7. Total quantity claimed (a) 1.34 (cfs) and/or (b) _____ (acre-feet)

8. Non-irrigation uses; describe fully (e.g., Domestic: Give number of households served; Stockwater: Type and number of livestock, etc.) Municipal use

9. Description of place of use: Place of use is within the City of Moscow municipal service area

a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.

b. If water is used for other purposes, place a symbol of use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

Parcel no(s). _____ Total number of acres irrigated _____

10. In which county(ies) are lands listed above as place of use located? Latah

11. Do you own the property listed above as place of use? Yes () No (☒)

If your answer is No, describe in Remarks below the authority you have to claim this water right.

12. Describe any other water rights used at the same place and for the same purposes as described above.

87-2023, 87-2025, 87-4023, 87-7034, 87-7069, and nine other municipal PRBA claims or None ()

13. Remarks (Include an explanation of the priority date selected):

This claim is the third of three claims for City of Moscow Well 1. Combined rate limit with claims 1 and 2 is

1.34 cfs. See attached explanation and supporting documentation included as Attachment C.

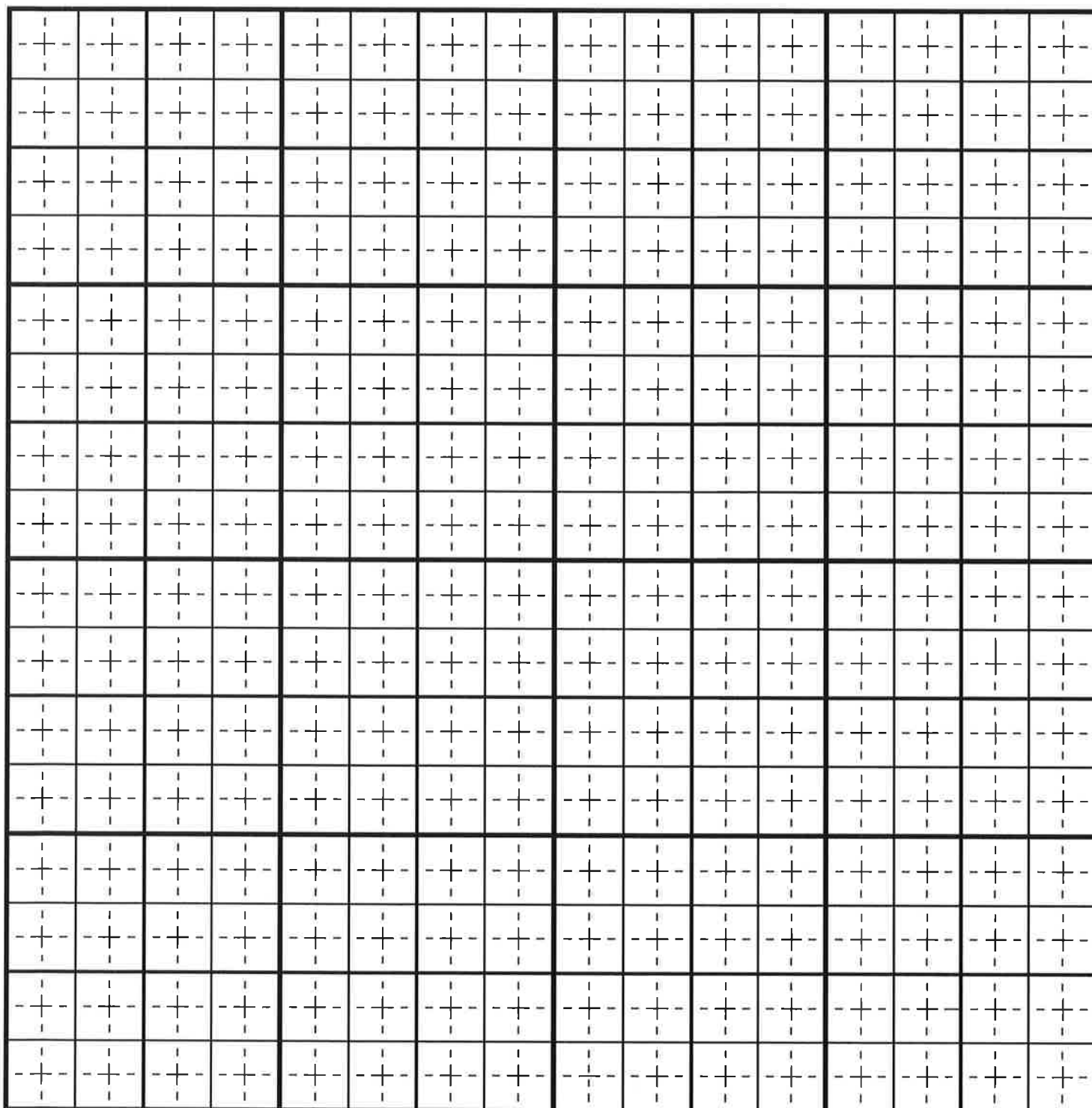
Name of claimant(s) City of Moscow

Claim ID _____

Map of Project: Attach aerial photograph or topographic map showing clearly the point of diversion, place of use, section number, township, and range number, unless unavailable. Otherwise sketch the elements above on the grid below.

Scale: 2 inches equals 1 mile

See Attachment B



Name of claimant(s) City of Moscow

Claim ID _____

14. Basis of claim (Check one) Beneficial Use (☒) Posted Notice (☐) License (☐) Permit (☐) Decree (☐)

Court _____ Decree Date _____ Plaintiff v. Defendant _____

If applicable provide IDWR Water Right Number _____

15. **Signature(s)**

(a.) By signing below, I/We acknowledge that I/We have received, read and understand the form entitled "How you will receive notices in the Palouse River Basin Water System Adjudication."

(b.) I/We do (☐) do not (☒) wish to receive and pay a small annual fee for monthly copies of the docket sheet.

Number of attachments: 3

For Individuals: I/We do solemnly swear or affirm under penalty of perjury that the statements contained in the foregoing document are true and correct.

Signature of Claimant (s) _____ Date: _____

_____ Date: _____

For Organizations: I do solemnly swear or affirm under penalty of perjury that I am, and that I have signed the foregoing document in the space below as the

Mayor of City of Moscow
Agents title (Please print) Name of organization (Please print)

and that the statements contained in the foregoing document are true and correct.

Signature of Authorized Agent Bill Lambert Date 7/17/19

Printed Name of Authorized Agent Bill Lambert

16. **Notice of Appearance:**

Notice is hereby given that I, (please print) Candice M. McHugh, will be acting as attorney at law on behalf of the claimant signing above, and that all notices required by law to be mailed by the director to the claimant signing above should be mailed to me at the address listed below.

Signature Candice McHugh Date 7/29/19

Address 380 S. 4th, Ste. 103, Boise, ID 83702

Name of claimant(s) City of Moscow Claim ID _____

Point of Diversion/Place of Use Supplement

Location of points of diversion (POD):

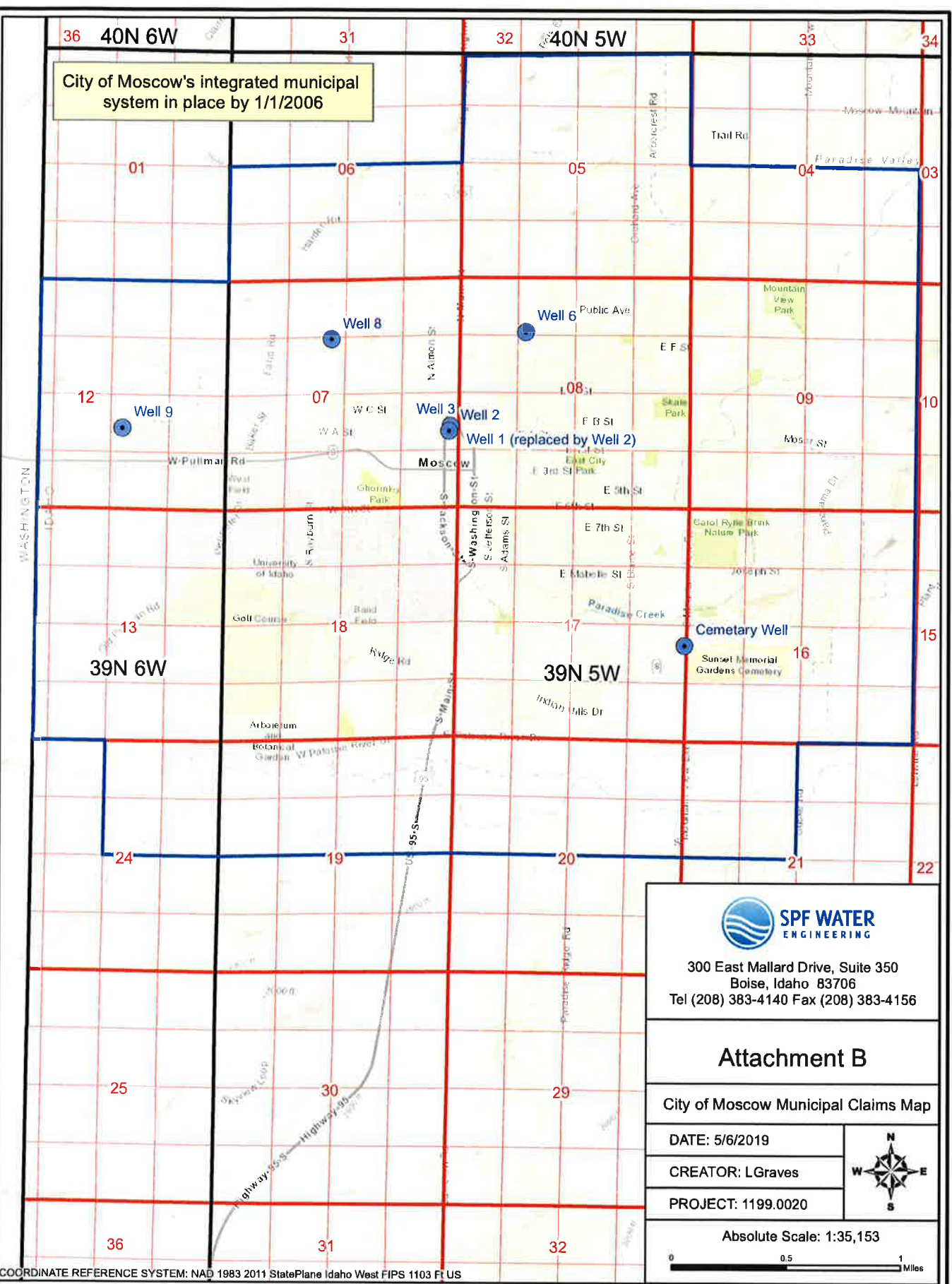
[illegible]

a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.

b. If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below.

[illegible]

City of Moscow's integrated municipal system in place by 1/1/2006



300 East Mallard Drive, Suite 350
Boise, Idaho 83706
Tel (208) 383-4140 Fax (208) 383-4156

Attachment B

City of Moscow Municipal Claims Map

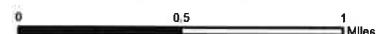
DATE: 5/6/2019

CREATOR: LGraves

PROJECT: 1199.0020



Absolute Scale: 1:35,153



COORDINATE REFERENCE SYSTEM: NAD 1983 2011 StatePlane Idaho West FIPS 1103 FT US

Attachment C

Claim Remarks & Supporting Documents

City of Moscow Well 1

Undated Moscow records indicate that Well 1 was constructed in 1892. A date of 4/1/1892 is proposed for claim 1 on the assumption that the well would not have been drilled earlier in 1892 because of typically inclement weather. According to City records, the North Idaho Star reported that in October 1905 a 20 hp motor and 13,000 gallon per hour (217 gpm) pump in Well 1 were being replaced by a 40 hp motor and a 30,000 gallon per hour pump (500 gpm). This forms the basis for believing that the initial production capacity from Well 1 was 217 gpm (or 0.48 cfs). An increase to 500 gpm in October 1905 warrants the City filing a second PRBA claim for Well 1 documenting the greater pumping capacity (a 10/1/1905 priority date is proposed). Two other citations (a 1/19/1931 City Engineer's Report and 1958 Ebasco report) are consistent with these observations. The 1958 Ebasco report describes another production increase in 1931, for which the City is filing a third PRBA claim. A 4/1/1931 priority date is proposed on the assumption that work on the well did not occur during the winter or early spring of 1931 because of typically inclement weather.



EXISTING SOURCES

WELL #1 39N-5W-7da3

Elevation - 2560 ft. above sea level

Location - Pump House, corner of "A" Street and Jackson Street

Construction - 1892

Size - 245 ft. deep; 12 in. diameter

GENERAL HISTORY

Earliest records show that a Triplex pump was first used in the well. The water level dropped too low for the pump to lift, and tunnels were dug connecting Well #1 with adjacent small wells which drained into it, raising its water level back to where the pump was effective. Finally, around 1931 a new pump and motor were installed.

- A new pumping unit (bowls) was installed in 1945.
- The pump column was lowered 36 ft. in 1956.
- Well #1 is rated at 600 gpm, and is used only to fill water trucks, and, in dire emergencies, to supply water directly to the Moscow water system.
- In Aug., 1975, the well was connected to the new Water Treatment Plant.

The newspaper "North Idaho Star" reported in October, 1905, that the 20 h.p. motor and 13,000 gal./hr. pump in Well #1 were being replaced by a 40 h.p. motor and 30,000 gal./hr. pump.

INTERIM REPORT

PHASE ONE

PRELIMINARY RECONNAISSANCE AND CONSULTATION

SUPPLEMENTAL WATER SUPPLY

FOR THE

CITY OF MOSCOW, IDAHO

Ebasco - 1958

Appendix A

DATA ON MOSCOW WELLS
(Not including those operated by University)

- Well No. 1 Located at central pump station. Hole 12 inches in diameter. Depth about 240 feet. Byron Jackson Deep Well Turbine with 75 hp motor, installed in 1931. At time of installation, pump delivered 600 gpm. Now delivers about 400 gpm (No meter). New pumping unit (Lewis) installed in 1945. Pump column lowered about 36 feet in 1956. Used only as stand-by and for street flushing purposes.
- Well No. 2 Located at central pump station. Hole 15 inches in diameter. Present depth about 250 feet. Layne & Bowler Deep Well Turbine pump with a 125 hp motor, installed in 1951. At time of installation, pump delivered 950 gpm. Capacity of pump reduced to 600 gpm late in 1957, due to sand condition and holes in casting of bowl assembly. New bowl assembly installed in January 1958. Sand eliminated by concreting. Test showed pump delivering 1150 gpm with new bowl assembly, with power demand of about 125 hp. Pump now delivering about 1100 gpm.
- Well No. 3 Located at central pump station. Hole diameter 15 inches. Depth about 280 feet. Byron Jackson Deep Well Turbine Pump with a 150 hp motor, installed in 1931. At time of installation pump delivered 1250 gpm. New bowl assembly installed in 1945. Pump column lowered about 36 feet in 1956. Test showed pump delivered about 1400 gpm, with new assembly, and now delivers about 1350 gpm. Motor is operating at about 90 per cent of rated capacity.
- Well No. 6 Located about 1/2 mile northerly from the central pump station. Drilled in 1955. Depth 280 feet. Diameter of hole at 250 feet is 19 inches. On test, well produced about 1500 gpm. Pomona Deep Well Turbine Pump rated capacity of 800 gpm with 150 hp motor (excess power to allow for increasing capacity of well) installed in 1956. Well delivered about 1000 gpm during 1956 and up to spring 1957. Flow gradually reduced to 275 gpm during summer 1957; pump removed. Hole is now being drilled to a lower depth to strike lower level of water. Hole now drilled to a depth of 930 feet. Basalt structure from 900 to 930 feet, this being the third layer of basalt encountered from the surface downward.

Water in all of the above described wells apparently derived from lower level of top basalt layer or just below said strata, at about 250 foot level.

A STUDY OF
THE PULLMAN ARTESIAN BASIN

By
Henry DeMotte
and
Walter F. Miles

1933

MOSCOW CITY WELL*

Well #2

Reference No. 20

Bore 15 in.

Elevation top of casing, 2567 ft. plus or minus 1.0 ft.

Depth to water, 54 ft., plus or minus 1.0 ft. Observed
December, 1932.

Depth of well, 560 ft.

Capacity, supplies 900 g.p.m. to pump.

WELL LOG

From	To	Feet	Remarks
Surface	Basalt	36	Top soil
Basalt	Gravel	36	
Gravel	Basalt	5	
Basalt	Shale seam	82	
Shale seam	Basalt	00	Stringer
Basalt	Blue gray clay	65	
Blue gray clay	Granitic sand	30	
Granitic sand	Sandy shale	19	
Sandy shale	Sand and pebbles	6	
Sand and pebbles	Cemented sand	26	
Cemented sand	Slate	7	
Slate	Brown soil	2	
Brown soil	Soil and pebbles	11	
Soil and pebbles	Micaceous shale	30	
Micaceous shale	Sandy shale	40	
Sandy shale	Cemented sand	49	
Cemented sand	Brown shale	18	
Brown shale	Micaceous shale and pebbles	38	
Micaceous shale and pebbles	Brown shale	25	
Brown shale	Quartzite	28	
Quartzite	Bottom	7	
Total		560	

Remarks:

This well is one of a group of three wells, including
one 12 in., 600 g.p.m., and one 15½ in., 1340 g.p.m. It
was necessary to seal the well at about 240 ft. in order to
prevent loss of the water.

Well #3

* Well log taken from records of School of Mines and Geology
University of Idaho at Moscow.