

COMPLETION REPORT ON THE
WELL ALTITUDE SURVEY IN THE
MOSCOW SUB-BASIN, IDAHO

Submitted to
The Pullman Moscow Water Resources Committee
and
The U.S. Geological Survey. Boise, Idaho

By
E. Woody Trihey

June 1973

Day - NW

TID

224

I2

T7543

1973

DEFINITIONS

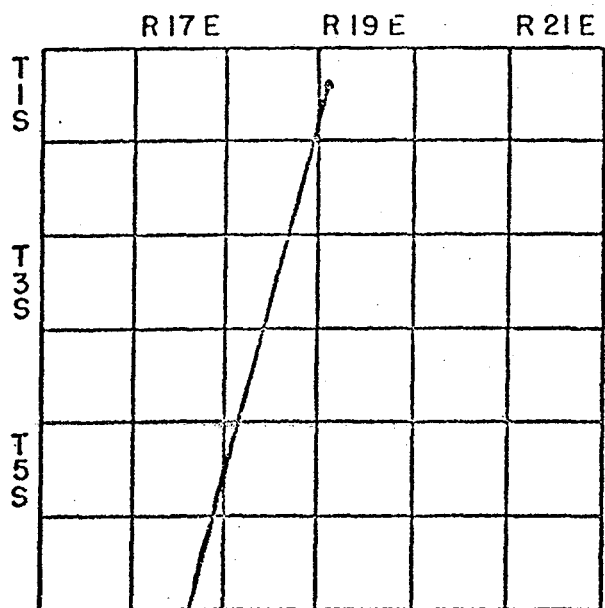
Altitude.--All altitudes are in feet above mean sea level datum of 1929 with subsequent adjustments, as established by second and third-order leveling from bench marks established by the United States Coast and Geodetic Survey.

Land-surface datum (LSD).--At the time a measuring point is established for a well, the distance of the measuring point, in feet, above or below the general natural land surface at the well site is measured. This general land surface is a plane of reference and is designated as land-surface datum. The land surface may change thereafter from natural causes or by artificial excavation or fill, but the designated land-surface datum remains unchanged, and water levels continue to be reported with reference to that datum.

Measuring points (MP).--A measuring point is a well defined, fixed point over a well such as the top of casing or base pump, from which measurements of the depth to water can be made conveniently.

WELL-NUMBERING SYSTEM

The well-numbering system used by the U.S. Geological Survey in Idaho indicates the locations of wells within the official rectangular land subdivision, with reference to the Boise base line and meridian. The first two segments of the number designate the township and range. The third segment gives the section number, followed by three letters and a numeral, which indicate the quarter section, the 40-acre tract, the 10-acre tract, and the serial number of the well within the tract, respectively. Quarter sections are lettered a, b, c, and d in counter-clockwise order from the northeast quarter of each section. Within the quarter sections, 40-acre and 10-acre tracts are lettered in the same manner. Well 1S-19E-18cab1 is in the NW/4, NE/4, SW/4, sec. 18, T1S, R19E, Boise Meridian, and was the first well inventoried in that tract.



WELL NO. 1S-19E-18cab1

TOWNSHIP _____

RANGE _____

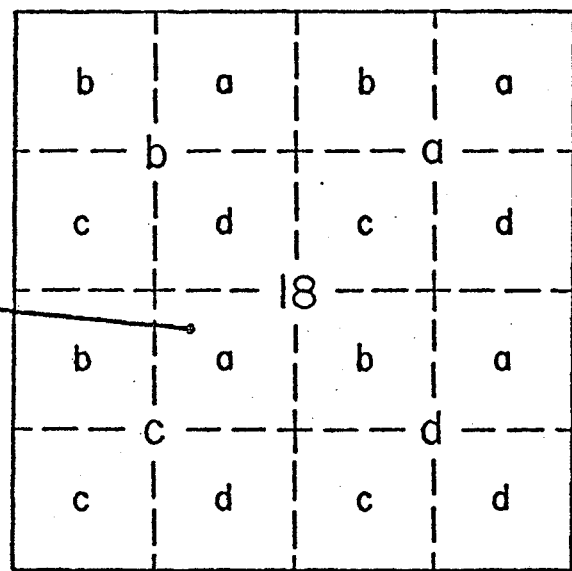
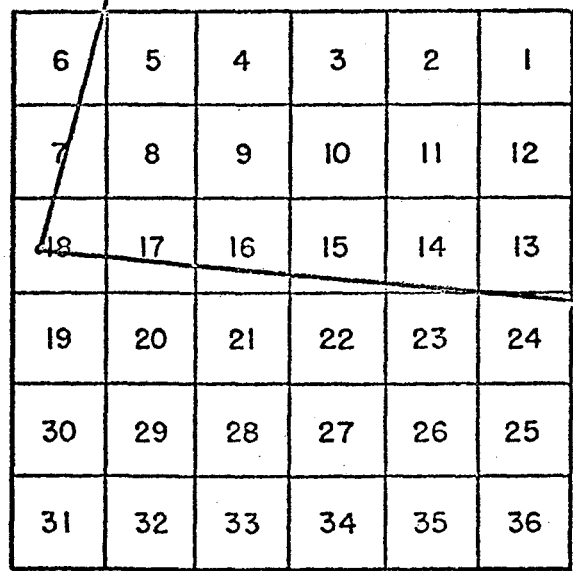
SECTION _____

QUARTER SECTION _____

40 ACRE TRACT _____

10 ACRE TRACT _____

SERIAL NUMBER _____



INTRODUCTION

Presently a study is underway by the U.S. Geological Survey to update ground-water information in the Moscow area and provide a representative sketch of the piezometric surface of the local basalt aquifer. Static water surface elevations used for the development of a water table map are obtained by subtracting "depth to water" measurements from their respective measuring point altitudes. (Figure 1)

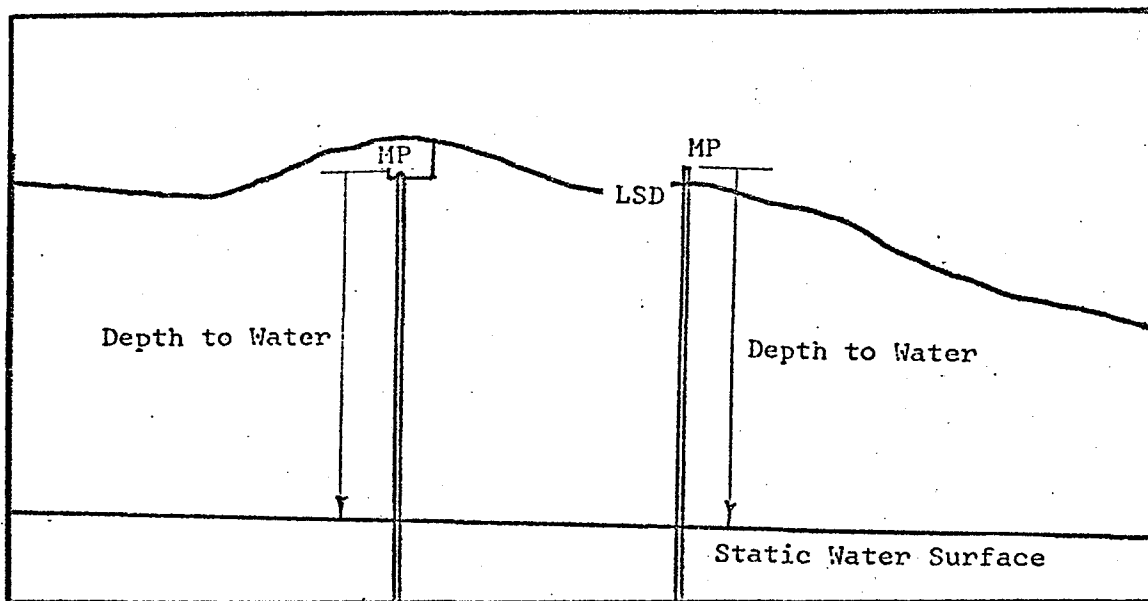


Fig. 1

In many ground-water reconnaissance and inventory studies measuring point altitudes are estimated from topography maps. However, the complexity of the aquifer(s) in the Moscow area has been discussed in earlier studies and the Committee felt an alternative means of acquiring information on well head elevations would be in order. Thus, it was decided to establish land surface datum and measuring point elevations for selected wells in the Moscow sub-basin by differential leveling.

PROCEDURE

During May 1973, Civil Engineering students from the University of Idaho assisted in running levels to approximately two dozen wells in the Moscow area. The approximate locations of these wells have been noted on standard U.S.G.S. Quadrangle Maps and are presented in figure 2.

Both double line and closed loop procedures were used with elevations being established to third order accuracy. The U.S. Department of Commerce, Coast and Geodetic Survey's Second-Order level net in the basin was used for control. Information on the control net is given in Appendix A.

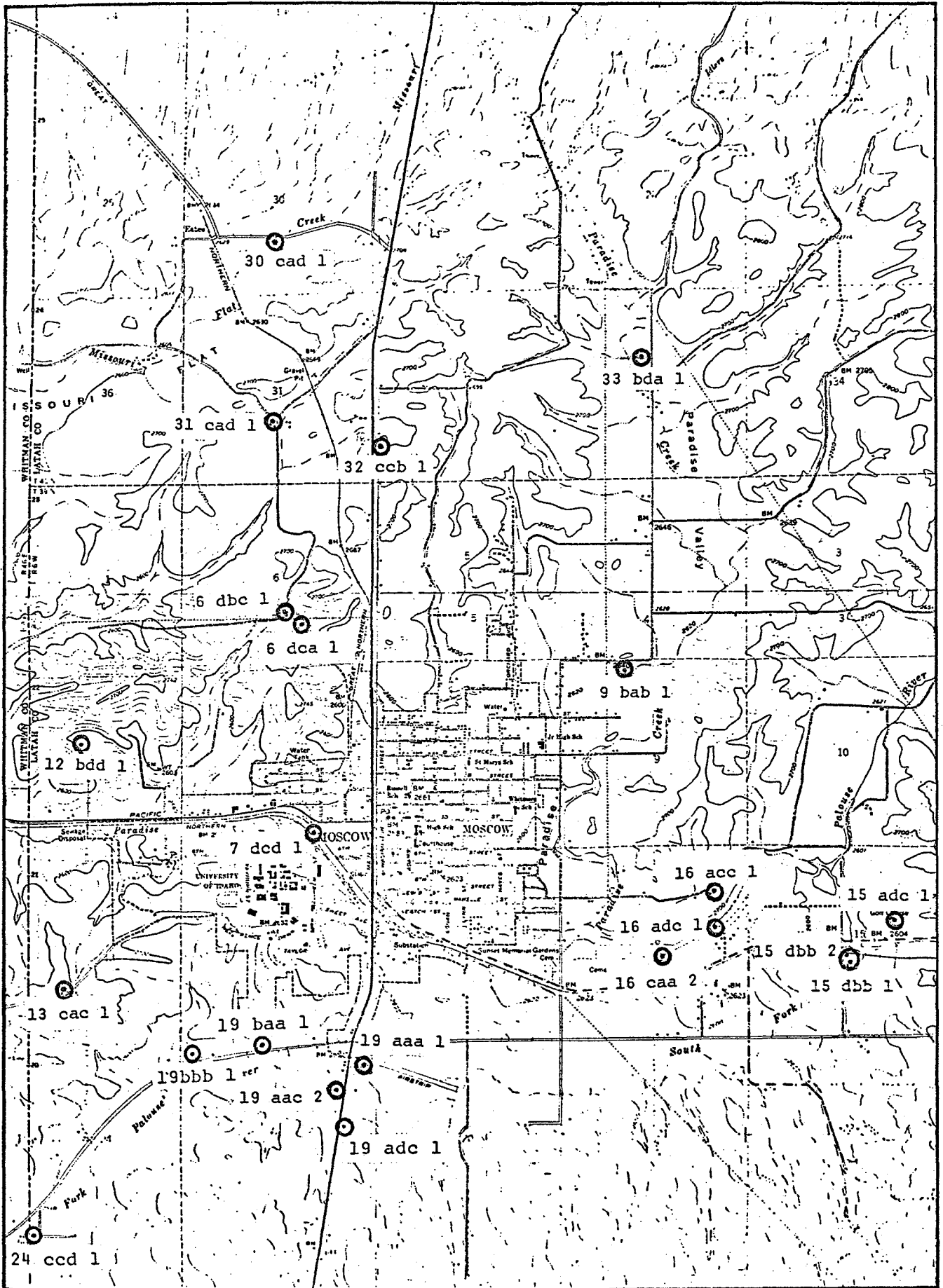


Fig.2 Well Location Map

RESULTS

The results of this project indicate that estimated altitudes were in error an average of three to five feet with extremes ranging from 0.3 to 18.6 feet.

A comparative listing of estimated versus established land surface datum (LSD) and measuring point (MP) altitudes for various wells in the Moscow sub-basin is presented in Table I. Level notes and well schedules for these wells are contained in Appendix B.

TABLE I

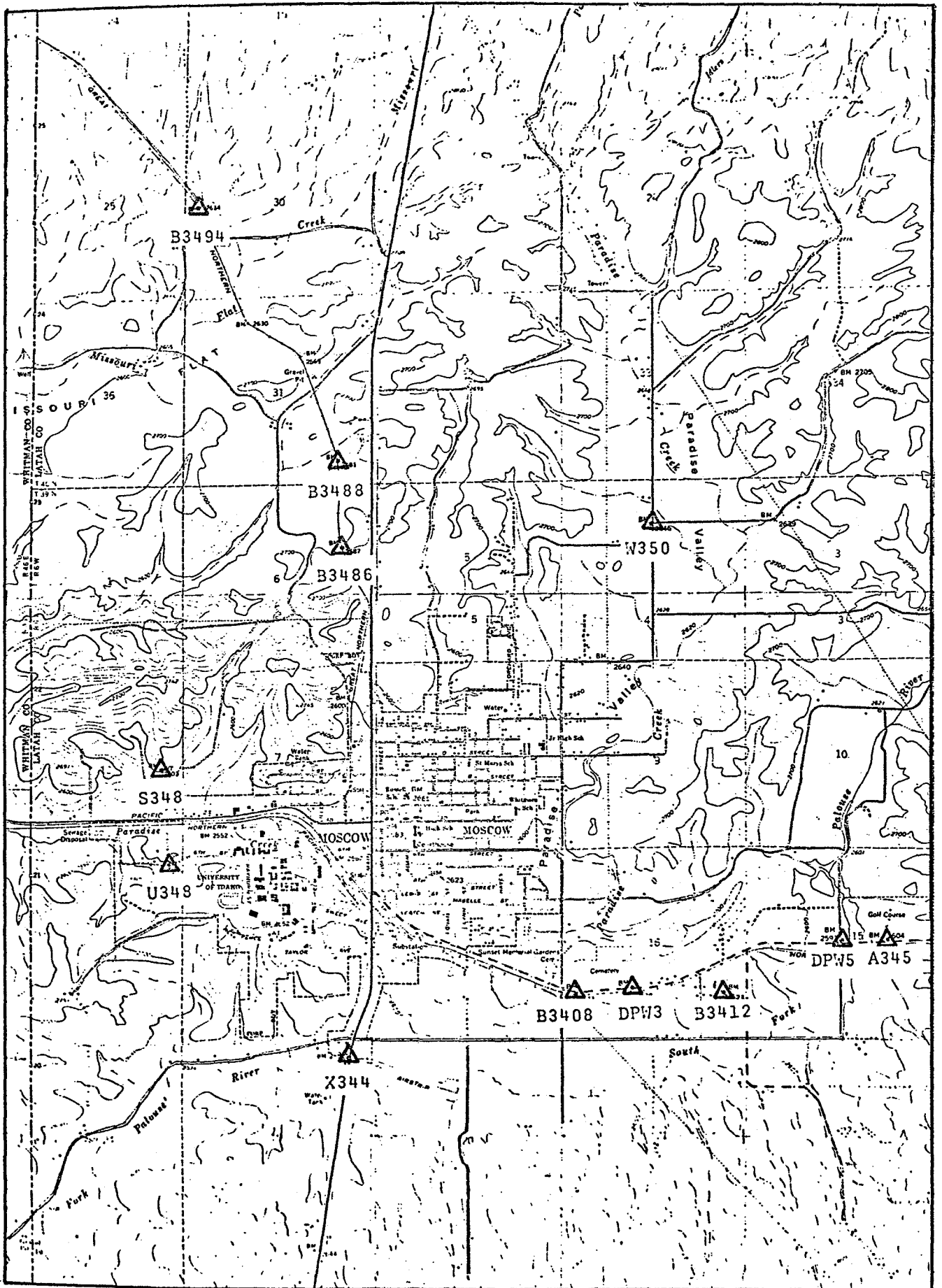
Well Number	Estimated LSD	Established LSD	Δ	Estimated MP	Established MP	Δ
40N-5W-30 cad1	2638	2636.0	2.0	2631.5	2929.98	1.52
31 cad1	2630	2627.4	2.6	2628.8	2627.03	1.77
32 ccb1	2720	2717.0	3.0	2714.8	2712.10	2.70
33 bdal	2670	2663.7	6.3	2667.5	2661.03	6.50
39N-6W-12 bdd1	2592	2609.9	17.9	2589.0	2606.75	17.75
13 cacl	2750	2752.4	2.4	2745.0	2747.42	2.42
24 ccd1	2530	2519.9	10.1	2528.9	2519.07	9.83
39N-5W- 6 dbcl	2616	2630.6	14.6	2611.0	2625.83	14.83
6 dcal	2670	2682.0	12.0	2670.0	2680.97	10.97
7 dcd1	2555	2560.3	5.3	2556.3	2561.52	5.22

(TABLE 1 cont.)

Well Number	Estimated LSD	Established LSD	Δ	Estimated MP	Established MP	Δ
39N-5W- 9 babl	2618	2623.5	5.5	2618.3	2623.76	5.46
15 adcl	2615	2606.0	9.0	2615.5	2606.45	9.50
15 dbbl	2595	2593.5	1.5	2592.3	2590.54	1.76
15 dbb2	2595	2591.6	3.4	2595.5	2592.03	3.47
16 accl	2635	2635.6	0.6	2636.0	2636.33	0.30
16 adcl	2700	2696.7	3.3	2697.0	2693.22	3.80
16 caa2	2688	2693.3	5.3	2689.2	2694.59	5.40
19 aaal	2565	2547.1	17.9	2567.1	2548.48	18.60
19 aac2	2545	2554.0	9.0	2546.1	2555.21	9.11
19 adcl	2585	2566.4	18.6	2586.0	2567.14	18.86
19 baal	2575	2586.2	10.2	2575.5	2585.98	10.48
19 bbb1	2552	2567.2	15.2	2548.0	2563.32	15.32

APPENDIX A

CONTROL ELEVATIONS
FOR
WELL ALTITUDE SURVEY
IN THE MOSCOW SUBBASIN



Location Map of Second Order
Bench Marks

GREAT NORTHERN TRACKS
NORTHWEST OF MOSCOW

Bench Mark B3488

Elev. 2680.716

Idaho Geodetic Survey

31 ddc T40N R5W

Approximately 1/4 mile south of wooden trestle #88.2 on Great Northern Railroad. 92 feet southeast of and across tracks from a telephone pole. 48 feet east of centerline of tracks and about 15 feet higher than tracks. Bronze disc set in top of a concrete post projecting 0.1 feet above ground immediately sw of brush pile.

Bench Mark B3494

Elev. 2634.47

Idaho Geodetic Survey

6 adb T39N R5W

Approx. 0.15 miles NE of Estes Siding, at the junction of a gravel road and a private road leading northeast to a barn. 109 feet east of and across track from mile post 87. 42 feet sw of centerline of the gravel road and 42 feet ne of the centerline of track. Approximately 2 feet south of witness post bronze disc set in concrete post protruding 0.2 feet above the ground.

Bench Mark B3486

Elev. 2686.64

Idaho Geodetic Survey

6 adb T39N R5W

Thirty-two feet southwest of a telephone pole (marked with pink flagging) near mile post 89, 50 feet west of the centerline of the tracks, about 15 feet higher than the track and set in top of a concrete post projecting 0.1 feet above the ground.

TROY HIGHWAY

Bench Mark B3408

Elev. 2662.652

Idaho Geodetic Survey

16ccb T39N R5W

112 feet southwest of the main entrance to the Moscow Cemetary off St. Highway 8. 40 feet south of the centerline of the highway, 29 feet north of the north rail of the N.P. tracks. 1.7 feet south of witness post, about 1 foot lower than highway set in top of a concrete post projecting 0.5 feet above ground. Lath and red ribbon set along south shoulder of Highway.

Bench Mark DPW No. 3

Elev. 2639.168

Department of Public Works

16 cad T39N R5W

At the east boundary of Moscow Cemetary along St. Highway 8. 35 feet north of highway centerline and approximately 4 feet south of broken concrete witness post. About 4 feet above highway, bronze disc set in the top of a concrete post projecting 1.0 feet above ground.

Bench Mark B3412

Elev. 2622.495

Idaho Geodetic Survey

16 dda T39N R5W

About 300 feet east from east boundary of Palouse Hills 7th Day Adventist parking lot on southside of paved road. Approximately 30 feet sw from intersection of paved road and driveway to Sam's Dairy. Bronze disc in concrete post projecting .3 feet above ground.

Bench Mark DPW #5

Elev. 2592.508

Department of Public Works

15 acc T39N R5W

Along Highway 8 at sw corner of Elks Golf Course, 45 feet northeast of the center of the intersection. About 1 foot west of a witness post. Bronz disc set in top of a concrete post projecting 0.5 feet above ground.

Bench Mark A345

Elev. 2604.306

U.S. Coast and Geodetic Survey

15 adc T39N R5W

18 feet east of the centerline of the main entrance to the Elks golf course. 34.5 feet north of the centerline of State Highway 8. Approximately 2 feet south of the witness post and 2 feet higher than the highway. A bronze disc is set in a concrete post projecting 0.4 feet above ground.

PARADISE VALLEY

NE OF MOSCOW

Bench Mark W350

Elev. 2645.651

U.S. Coast and Geodetic Survey

4 bad T39N R5W

26 feet west of the "T" intersection of Mountain View and Moscow Mountain Road. 5.5 feet southwest of powerline pole. About 2 feet higher than road. Bronze disc set in the top of a concrete post projecting 0.5 feet above ground.

HIGHWAY 95

SOUTH OF MOSCOW

Bench Mark X344

Elev. 2552.27

U.S. Coast and Geodetic Survey

19 aab T39N R5W

Bronze disc in the top of the north end of the west curb on the bridge over the South fork of the Palouse River.

APPENDIX B

LEVEL NOTES

AND

WELL SCHEDULES

MASTER CARD

39N-SW-190001

Record by FGC Source of data Owner Date 27 July 72 Map Moscow West

State Idaho County 16 (or town) Latah 57

Latitude: 41° 42' 51" N Longitude: 117° 00' 01" W Sequential number: 1

Lat-long accuracy: 1 sec S, R 5 Sec 19 NE 1 NE 1 NE 1 Boise

Local well number: 3124 05W 190001 Other number: B & N

Local use: _____ Owner or name: Pete Fountain Address: Moscow

Ownership: County, Fed Gov't, City, Corp of Co, Private, State Agency, Water Dist P

Use of well: Air cond, Bottling, Comm, Devater, Power, Fire, Dom, Irr, Mod, Ind, P S, Rac, Stock, Inatit, Unused, Reprssure, Recharge, Desal-P S, Desal-other, Other U

Use of well: Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed _____

DATA AVAILABLE: Well data 10 Freq. W/L meas.: 1 yr I Field aquifer char. _____

Byd. lab. data: _____

Qual. water data: TYPE: _____

Freq. sampling: _____ Pumpage inventory: yes no; period: _____

Aperture cards: _____ yes _____

Log date: _____

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 140 ft 140 Meas. Driller 6

Depth cased: _____ ft _____ Casing type: steel ; Diam. 8 in _____

Finish: concrete, gravel w. horiz. open perf., screen, ad. pt., shored, open hole, other X

Method: (A) bored, cable, dug, hyd jacked, air reverse, (B) driven, drive, (C) percussive, rotary, other A

Date Drilled: 9-7-70 Pump intake setting: _____ ft _____

Driller: Ford's Air Drilling, Lewiston

Lift: (A) air, bucket, cent, jet, multiple, (B) nose, piston, rot, submerg, turb, other _____ Deep _____ Shallow _____

Power: 1/2 hp nat gas LP _____ Trans. or meter no. _____

Descrip. MP Top of 8-in cas. on side 2.1 ft above _____ below LSD. Alt. MP _____

Alt. LSD: 2565 2365 Accuracy: Topo Map 20' 02 4

Water Level: 15.33 ft above _____ below MP; ft above _____ below LSD 16 Accuracy: st tape A

Date meas: 27.1.72 7.2.2 Yield: _____ gpm _____ Method determined

Drawdown: _____ ft _____ Accuracy: _____ Pumping period _____ hrs _____

QUALITY OF WATER DATA: Iron _____ Sulfate _____ Chloride _____ Hard. _____

Sp. Conduct _____ K x 10⁶ _____ Temp. _____ Date sampled _____

Taste, color, etc. _____

HYDROGEOLOGIC CARD

39N-SW-190001

Latitude-Longitude 41° 42' 51" N 117° 00' 01" W

SAME AS ON MASTER CARD Physiographic Province: Columbia Plat 20 Section: Walk Wallu

Plat D Drainage Basin: S. Fork Palouse 766 Subbasin: _____

Topo of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp, (E) offshore, pediment, hillside, terrace, undulating, (F) valley flat, (G) _____, (H) _____, (I) _____, (J) _____, (K) _____, (L) _____, (M) _____, (N) _____, (O) _____, (P) _____, (Q) _____, (R) _____, (S) _____, (T) _____, (U) _____, (V) _____ V

MAJOR AQUIFER: _____ system _____ series _____ aquifer, formation, group _____

Lithology: _____ Length of well open to: _____ ft _____ Depth to top of: _____ ft _____

MINOR AQUIFER: _____ system _____ series _____ aquifer, formation, group _____

Lithology: _____ Length of well open to: _____ ft _____ Depth to top of: _____ ft _____

Interval Screened: _____

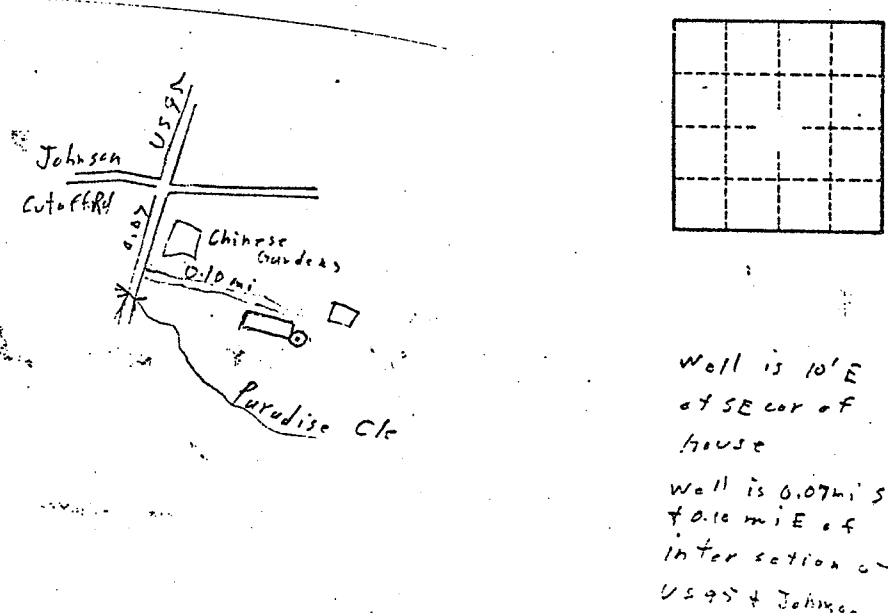
Depth to consolidated rock: _____ ft _____ Source of data: _____

Depth to basement: _____ ft _____ Source of data: _____

Surficial Material: _____ Infiltration characteristics: _____

Efficient: _____ Kana: _____ gpd/ft _____ Coefficient Storage: _____

Efficient: _____ gpm/ft²; Spec cap: _____ gpm/ft; Number of geologic cards: _____



State Idaho County Latah Well No. 39

Prepared by Woody Tribey Date leveled 29

Survey party Tribey & Associates Agency Ret

Level book _____
(Name _____ Number _____)

Control: Levelled from (USC&GS), USGS, IDPW, Other _____

X-344 (Line, Quad) No. _____ Ida.

Leveling order (First, Second, Third, Fourth) (Adj., Un

datum of 1929, Pac. NW, Supp. Adj. of 1927, S

1960, Supp. Adj. of _____, Supp. Adj

Method determined: (Spirit), Transit, Alidade, Altimeter

Accuracy Order: (First, Second, Third, Fourth, Other _____

2547.4 Land-surface datum. Date estab. _____

2547.4 Land surface 6 feet _____

2547.15 Ref. Mark No. 1, NE corner

slab which por

upon, Most NE corner

2547.17 Ref. Mark No. 2, SE corner

slab outside pump

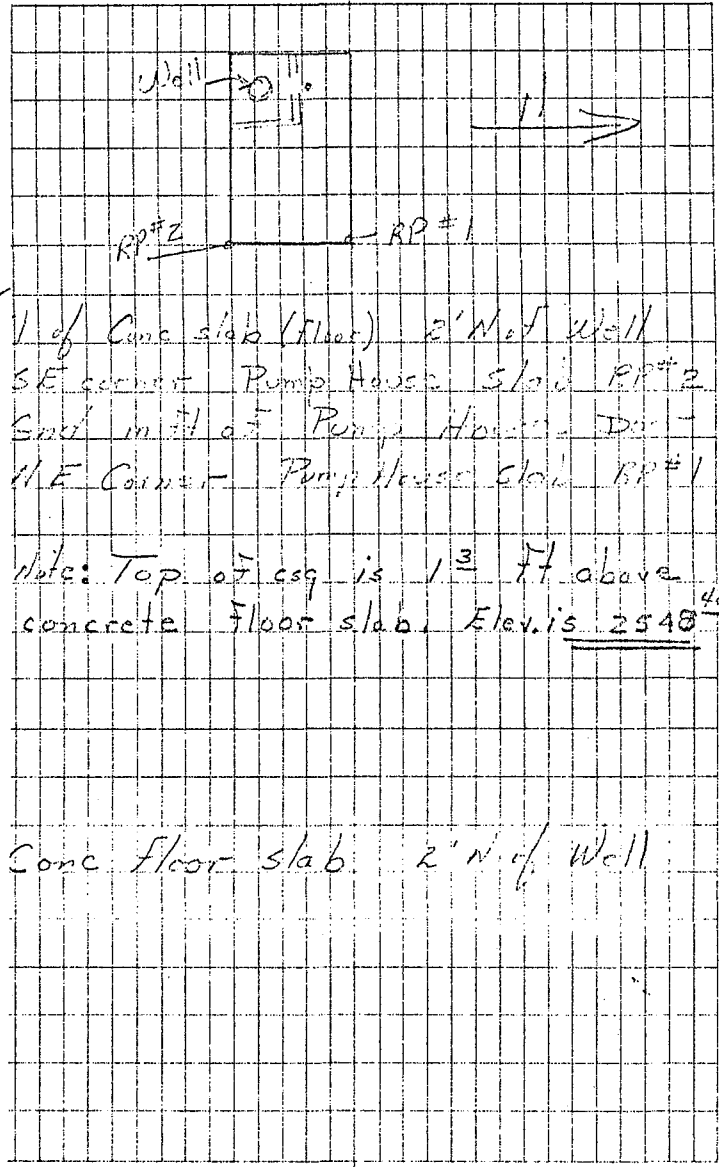
corner

Meas. Point No. 1. Date estab. _____

Meas. Point No. 2. Date estab. _____

Meas. Point No. 3. Date estab. _____

+	HI	-	IFS	Elev
				2552.21
1.22	53.89			
		8.46		45.43
5.33	50.76			
		4.24		46.50
5.88	51.50			
		4.32		47.18 ✓
			4.33	47.17
			4.39	47.11
			4.32	47.18
				2552.21
1.61	53.88			
		8.21		45.67
5.12	50.79			
		3.20		47.09
4.42	51.52			
		4.32		47.19 ✓



1' of Conc slab (floor) 2' N of Well
SE corner Pump House slab RP#2
SW corner of Pump House slab
NE corner Pump House slab RP#1

Note: Top of csg is 1.3 ft above
concrete floor slab. Elev. is 2548.48

Conc floor slab 2' N of Well

MASTERCARD (PLW) 30891 10/29/53 USGS (10/29/53) TENANT = COSBY 40N-5W-3000d1

Record by N.P. DAV Source of data OBS-FILES Date 6/29/72 Map VIOLA, WASH.

State IDAHO County TIG Country LATAH Section 57

Latitude: 41 04 6 2 2 2 N Longitude: 117 04 2 0 4 2 W Sequential number: 1

Local well number: 40N 5W 30C 04D 1 Other number: P.T. MOSER

Local use: MEET MIEHANKI Owner of name: NOITE MIEHANKI

Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist P

Use of water: (S) Stock, (X) Insult, (U) Unused, (R) Recharge, (D) Desal-P S, (O) Desal-other, (H) Other H

Well: (A) Anode, (D) Drain, (S) Seismic, (H) Heat Res., (G) Gas, (P) Oil-gas, (R) Recharge, (T) Test, (U) Unused, (W) Withdraw, (X) Waste, (D) Destroyed W

DATA AVAILABLE: Well data 70 Freq. W/L meas.: IPPEG 71 Field aquifer char. 72

Evd. lab. data: 73

Qual. water data: Type: 74

Freq. sampling: 75 Pumpage inventory: no. period: 76

Aperture cards: 77

Log data: DRILLER'S 78

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 308.9 ft 309 ft TAPE? 24

Depth cased; (ft/at part): 94 ft 94 ft Casing Type: B.I. ; Diam. 6 in 20

Finish: (C) porous concrete, (F) gravel w. horiz. open part., (G) screen, (H) ad. pt., (I) shored, (J) open hole, (K) other X

Method: (A) air bored, (B) cable, (C) dug, (D) hyd jacked, (E) percussive, (F) rotary, (G) other S

Date Drilled: 1/4/53 7/5/53 Pump intake setting: ft 34 35

Driller: SPERRY BROS. MOSCOW, IDAHO

Lift: (A) air, (B) bucket, (C) cent. jet, (D) multiple, (E) nose, (F) piston, (G) submers. turb., (H) other S Shallow 40

Power: (type): diesel, elec., gas, gasoline, hand, gas, wind; H.P. 5 Trans. or meter no. 41

Descrip. MP: HOLE IN GCR SEAL 6.5 ft 66low LSD, Alt. MP

Alt. LSD: 2638 2638 Accuracy: (source): TOP MAP C.T. 20' 4

Water Level: 22.26 ft above MP; 22.26 ft below LSD Accuracy: 5T 40

Date meas: 2004 53 053 Yield: 20 gpm 40 Method determined 41

Drawdown: ft 42 Accuracy: hrs 43

QUALITY OF WATER DATA: Iron ppa 44 Sulfate ppa 45 Chloride ppa 46 Hard. ppa 47

Sp. Conduct: K x 10⁶ 48 Temp. °F 49 Date sampled 50

Taste, color, etc. 51

* Original depth = 356 (dr. log) MP + LSD w/L not referenced by Washburn

40N-5W-3000d1 Latitude-Longitude 46 46.78 117.0042

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: COLUM PLAT 20 Section: WALLA WALLA

PLAT A Drainage Basin: SDF PALOUSE 766 Subbasin: 24

Top of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp, (E) offshore, pediment, hillside, terrace, undulating, valley floor V

MAJOR AQUIFER: system series 21 22 aquifer, formation, group 23 24

Lithology: 25 Origin: 26 Aquifer Thickness: 27

Length of well open to: 215 ft 215 ft Depth to top of: 28

MINOR AQUIFER: system series 42 43 aquifer, formation, group 44 45

Lithology: 46 Origin: 47 Aquifer Thickness: 48

Length of well open to: 31 32 ft 33 34 Depth to top of: 35

Intervals Screened: 6" CSG 0-94

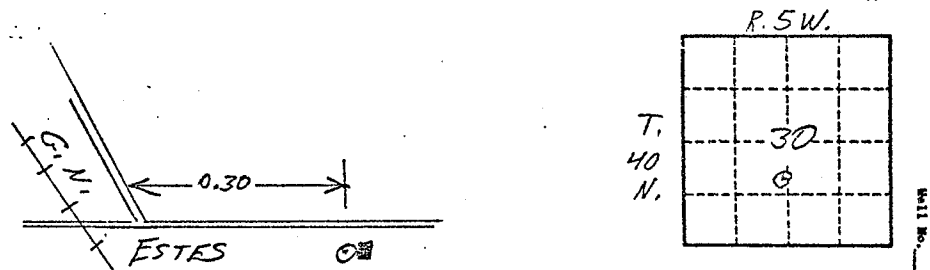
Depth to consolidated rock: 49 Source of data: 50

Depth to basement: 51 Source of data: 52

Surficial material: 53 Infiltration characteristics: 54

Coefficient Trans: 55 Spd/ft 56 Coefficient Storage: 57

Coefficient Perm: 58 Spd/ft²; Spec cap: 59 gpm/ft; Number of geologic cards: 60



WELL IS IN DEEP CONC. PIT ON WEST SIDE OF HOUSE AND 150 FT. SOUTH OF ROAD.

Well was cleaned in spring of 1972.

Form B-2 (6-1-72)

U.S.G.S.-WRD-Boise

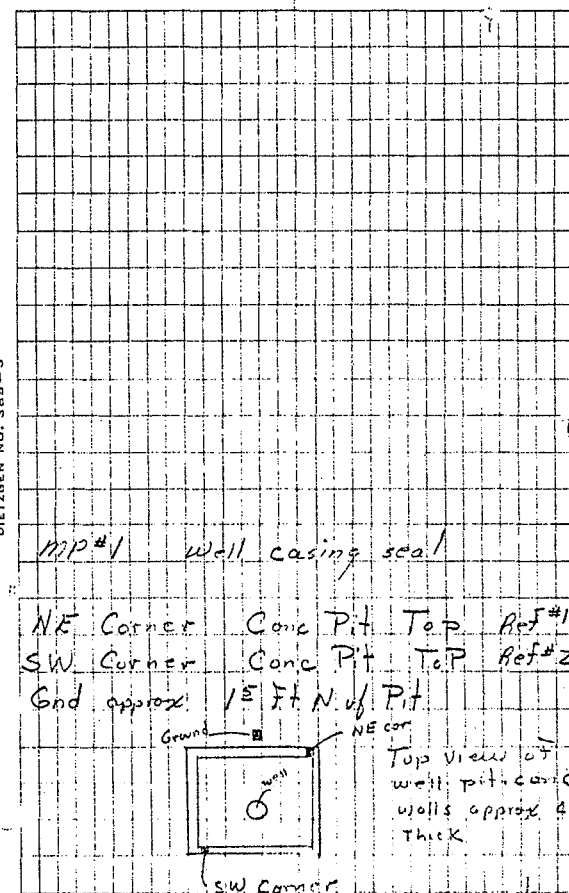
Level Note Sheet
(For filing with well record)State Idaho County Latah Well No. 40N-5W-30 cad 1Prepared by Woody Tribby Date leveled April 29, 1973Survey party Tribby & Associates Agency PrivateLevel book _____
(Name Number Page)Control: Leveled from (USCGS, USGS, IDPW, Other IGS) BM No. _____B 3494 (Line, Quad) No. 2 Ida. Date Jun - Aug 53Leveling order (First, Second, Third, Fourth) (Adj., Unadj., Preliminary)datum of 1929, Pac. NW, Supp. Adj. of 1947, Supp. Adj. of _____1960, Supp. Adj. of _____, Supp. Adj. of _____Method determined: (Spirit) Transit, Alidade, Altimeter, Other _____Accuracy Order: (First, Second, Third, Fourth, Other _____)2636⁰⁴ Land-surface datum. Date estab. _____2636⁰⁴ Land surface 1.5 feet North of well.2636²⁰ Ref. Mark No. 1, NE Corner of Conc
Pit. Top of well2636²⁴ Ref. Mark No. 2, SW Corner of Conc
Pit. Top of well2929⁹⁸ Meas. Point No. 1. Date estab. Top of well
CSC seal

Meas. Point No. 2. Date estab. _____

Meas. Point No. 3. Date estab. _____

Sta	+	HI	-	Elevation
BM				<u>2634⁴⁷</u>
	<u>461</u>	<u>39⁰⁸</u>		
	<u>24</u>	<u>32²¹</u>	<u>8⁴⁸</u>	<u>30⁶⁰</u>
			<u>6³⁸</u>	<u>26³³</u>
	<u>442</u>	<u>30²⁵</u>		
			<u>6⁰⁷</u>	<u>23⁸</u>
	<u>528</u>	<u>29¹⁶</u>		
			<u>1⁶⁵</u>	<u>27⁵¹</u>
	<u>713</u>	<u>34⁶⁴</u>		
			<u>2⁶⁰</u>	<u>32⁰⁴</u>
	<u>753</u>	<u>39²⁷</u>		
			<u>4³³</u>	<u>35²⁴</u>
	<u>454</u>	<u>39²⁸</u>		
			<u>9⁰²</u>	<u>2629⁹⁶</u>
			<u>3¹⁰</u>	<u>2630⁰⁴</u>
			<u>3⁵⁶</u>	<u>2630²²</u>
			<u>3²⁶</u>	<u>2636⁰²</u>

DIETZEN NO. 385-3



Sta	Line B	HT	-	Elevations
B.M.				2634.42
460		39.02		
			8.91	30.16
255		32.21		
			6.13	26.58
412		30.75		
			6.90	23.65
521		29.16		
			1.80	27.30
734		39.04 34.45		
			1.64	33.00
657		39.57		
			4.32	35.25
452		39.82		
			9.82	2630.00

Distance in MP Elevations 0.01
Between A & B lines

Note Meter error occurred at last HI due to necessity of placing TP in Gravel Rd at Ten ft driveway and containing with level. Hubs not used. difficult to be precise of TP after

DIETZEN NO. 385-3

	visibly clear
	Guesty, Temp around 60°F

MP # 1

Well # 30 cord 1
Last HI varied

Line A 39.78 > 39.80 Aug
Line B 39.82

Using HI of 2639.80 for last set up

EL Gnd = 2639.80 - 3.76 = 36.04

EL Ref #1 = 2639.80 - 3.10 = 36.70

EL Ref #2 = 2639.80 - 3.54 = 36.24

EL MP = 2639.80 - 9.82 = 29.98

Accuracy

3rd order 05.1M 11.7 Miles

105N.5 = .04

Closure Error = 0.24

OK

MASTER CARD

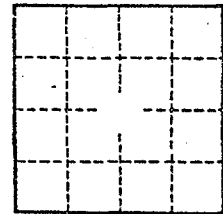
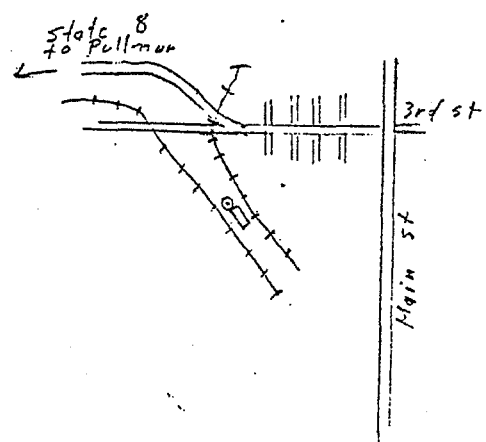
Record by Conroy Source of data Owner Date 7 Nov 72 Map 39N-5W 7dcd1
 State IA County Latah (or town) Boise Section 7
 Latitude: 46 42 N Longitude: 117 00 W Sequential number: 1
 Local well number: 3 Other number: 1
 Local use: _____ Owner of name: Louis Olsen (Olsen's Carpet & Linenry Water Service)
 Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist P
 Use of well: Air cond, Bottling, Comm, Devater, Power, Fire, Dom, Irr, Md, Ind, P S, Rec, Stock, Inatit, Unused, Repressure, Recharge, Desal-P S, Desal-other, Other C
 Well: Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed W
 DATA AVAILABLE: Well data 7 Freq. W/L meas.: 1/yr Field aquifer char. 7
 Hyd. lab. data: _____
 Qual. water data: type: _____
 Freq. sampling: _____ Pumpage inventory: no, period: _____
 Aperture cards: _____
 Log data: _____

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: _____ Section: _____
 Drainage Basin: _____ Subbasin: _____
 Top of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp; (E) offshore, pediment, hillside, terrace, undulating, valley flat
 MAJOR AQUIFER: _____ system _____ series _____ aquifer, formation, group _____
 Lithology: _____ Origin: _____ Aquifer Thickness: _____
 Length of well open to: _____ ft Depth to top of: _____ ft
 MINOR AQUIFER: _____ system _____ series _____ aquifer, formation, group _____
 Lithology: _____ Origin: _____ Aquifer Thickness: _____
 Length of well open to: _____ ft Depth to top of: _____ ft
 Intervals Screened: _____
 Depth to consolidated rock: _____ ft Source of data: _____
 Depth to basement: _____ ft Source of data: _____
 Surficial material: _____ Infiltration characteristics: _____
 Coefficient Trans: _____ gpd/ft Coefficient Storage: _____
 Coefficient Farm: _____ gpd/ft²; Spec cap: _____ gpm/ft; Number of reologic cards: _____

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 238 ft Meas. 6
 Depth cased: 4 ft Casing type: steel ; Diam. 8 in
 Finish: porous gravel w. gravel v. horiz. open perf., screen, sd. pt., shored, open hole, other X
 Method: (A) air, (B) bored, (C) cable, (D) dug, (E) hyd jetted, (F) air reverse, (G) percuss, (H) rotary, (I) driven, (J) drive wash, (K) other A
 Date Drilled: 7 Nov 72 Pump intake setting: _____ ft
 Driller: Adcock Drilling, Lewisburg
 Lift (type): (A) air, (B) bucket, (C) cent. jet, (D) multiple, (E) none, (F) piston, (G) submers, (H) turb, (I) other S Deep 5 Shallow 40
 Power: nat LP 1/2 Trans. of meter no. 7
 Descrip. MP 7/16 in hole in well seal 125' above below LSD, Alt. MP _____
 Alt. LSD: 205 Accuracy: ± 4 in
 Water Level: _____ ft above MP; _____ ft below LSD Accuracy: ± 4 in
 Date Meas: 7 Nov 72 Yield: 4.3 gpm Method determined: _____
 Drawdown: _____ ft Accuracy: _____ Pumping period: _____ hrs
 QUALITY OF WATER DATA: Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm Hard. _____ ppm
 Sp. Conduct _____ K x 10⁶ Temp. _____ °F Date sampled: _____



Berkley sub

Level Note Sheet
(For filing with well record)

State Idaho County Latah Well No. 39N-5W-7dcd1
 Prepared by Woody Tribey Date leveled May 22, 1973
 Survey party Marks & Scott Agency pvt

Level book _____ (Name) _____ (Number) _____ (Page)

Control: Leveled from (USC&GS, USGS, IDPW, Other Univ of Idaho) BM No. 10
 (Line, Quad) No. _____ Ida. Date _____

Leveling order (First, Second, Third, Fourth) (Adj., Unadj., Preliminary)
 datum of 1929, Pac. NW, Supp. Adj. of _____, Supp. Adj. of _____
 _____, Supp. Adj. of _____, Supp. Adj. of _____

Method determined: (Spirit) Transit, Alidade, Altimeter, Other _____
 Accuracy Order: (First, Second, Third, Fourth, Other _____)

2560³¹ Land-surface datum. Date estab. May 22, 1973
2560³⁰ Land surface 0¹⁰ feet East of well.
2561⁴⁵ Ref. Mark No. 1. Conc Curb 3' N
of well

Ref. Mark No. 2. _____

2561⁵² Meas. Point No. 1. Date estab. Top of
Well csg Seal

Meas. Point No. 2. Date estab. _____

Meas. Point No. 3. Date estab. _____

℄	+	H I	-	IAS	
B.M. 10 ^{00:31}	5 ³⁸	67 ⁷⁹			2564 ³¹
			5 ⁰⁰		62 ¹⁹
	-1 ³⁰	66 ⁴⁹			
			5 ³⁸		61 ¹¹
	4 ¹²	65 ²⁴			
			3 ²²		61 ⁵²
				3 ⁷⁹	61 ⁴⁵
				4 ⁹²	60 ³⁰
	5 ³⁰	66 ⁸²			
			1 ⁰⁰		62 ⁰⁰
	5 ⁰³	67 ⁰⁹			
	5 ¹²	67 ⁷⁹			
			3 ⁴¹		2564 ³⁰
	27 ⁴³			27 ⁴⁴	

DIETZEN NO. 388-1-8

WELL HEAD	
CEMENT CURB 3' N of well	
Gnd. immediately east of csg.	
from well to B.M. 10.00	
B.M. 10.00	160. 2564 ³¹

MASTER CARD

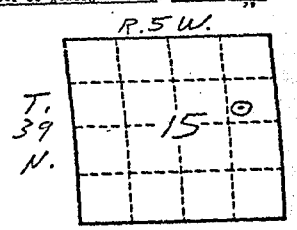
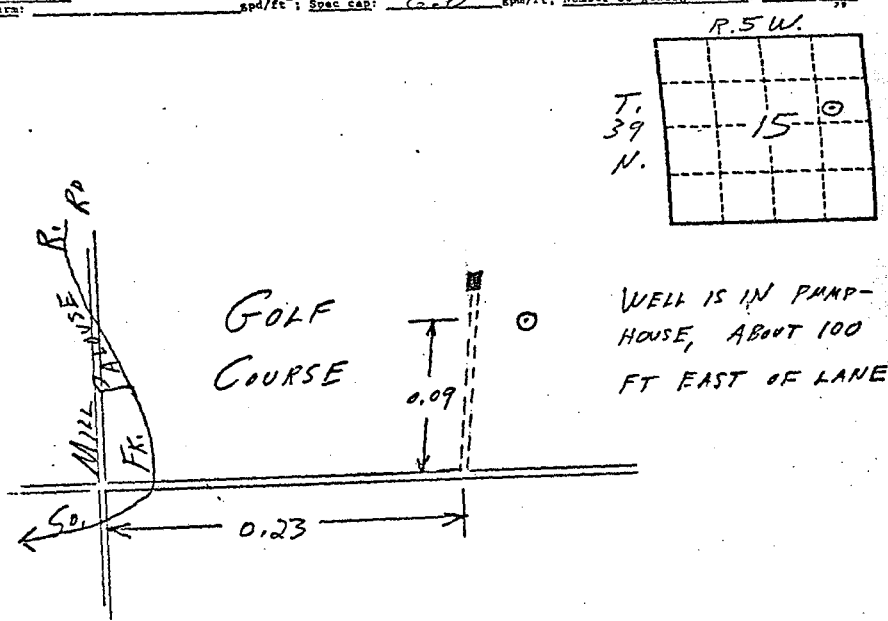
Record by N. P. DINN Source of data GRS-LOG Date 6/20/72 Map MOSCOW EAST
 State INDIANA County LATAH (or town) 57
 Latitude: 40° 47' 40" N Longitude: 111° 45' 30" W Sequential number: 1
 Well number: 11 200 S. R. 5 E. Sec. 15, SW 1/4, SE 1/4, NE 1/4, BOISE Other number: #3
 Local use: _____ Owner or name: GOLF COURSE Address: MOSCOW, ID.
 Ownership: (C) County, Fed Gov't, City, Corp or Co. (P) Private (S) State Agency, Water Dist. _____
 Use of well: (A) Air cond, Bottling, Comm. Dewater, Power, Fire, Dom. Irr, Mad, Ind, P S, Rec. (H) (I) (M) (N) (P) (R)
 (S) (T) (U) (V) (W) (X) (Y) (Z) Stock, Inactit, Unused, Repressura, Recharge, Desal-P S, Desal-other, Other _____
 Use of well: (A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z)
 (A) Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed _____
 DATA AVAILABLE: Well data _____ Freq. W/L meas.: IRREG Field aquifer char. _____
 Rvd. lab. data: _____
 Qual. water data: type: _____
 Freq. sampling: _____ Pumpage inventory: no. period: _____
 Aperture cards: _____
 Log data: DRILLER'S

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 270 ft. 270 Meas. DR LOG 3
 Depth cased: 64 ft. Casing type: B.I. Diam. 10 in. 10
 Finish: (C) porous concrete, (F) gravel w. concrete, (G) gravel w. (perl.) concrete, (H) gravel w. (perl.) concrete, (I) gravel w. (perl.) concrete, (J) gravel w. (perl.) concrete, (K) gravel w. (perl.) concrete, (L) gravel w. (perl.) concrete, (M) gravel w. (perl.) concrete, (N) gravel w. (perl.) concrete, (O) gravel w. (perl.) concrete, (P) gravel w. (perl.) concrete, (Q) gravel w. (perl.) concrete, (R) gravel w. (perl.) concrete, (S) gravel w. (perl.) concrete, (T) gravel w. (perl.) concrete, (U) gravel w. (perl.) concrete, (V) gravel w. (perl.) concrete, (W) gravel w. (perl.) concrete, (X) gravel w. (perl.) concrete, (Y) gravel w. (perl.) concrete, (Z) gravel w. (perl.) concrete _____
 Method: (A) air bored, (B) cable, (C) auger, (D) hand, (E) jetted, (F) percussive, (G) air, (H) reverse, (I) driven, (J) drive, (K) wash, (L) other _____
 Date drilled: 10/24/68 Pump intake setting: _____ ft.
 Driller: A.E. SPRAY Address: MOSCOW, IDAHO Deep _____
 Lift: (A) air, (B) bucket, (C) cent., (D) jet, (E) multiple, (F) multiple, (G) multiple, (H) multiple, (I) multiple, (J) multiple, (K) multiple, (L) multiple, (M) multiple, (N) multiple, (O) multiple, (P) multiple, (Q) multiple, (R) multiple, (S) multiple, (T) multiple, (U) multiple, (V) multiple, (W) multiple, (X) multiple, (Y) multiple, (Z) multiple _____
 Power: (A) diesel, (B) elec, (C) nat, (D) gas, (E) gasoline, (F) hand, (G) gas, (H) wind, (I) H.T. _____
 Descrip. of well: AIRLINE 1 1/2" INCH CAP 0.5" ABOVE LSD. Alt. MP
 Alt. LSD: 2615 Accuracy: TAPE
 Water level: 41.07 ft. above MP; 46 ft. below LSD Accuracy: TAPE
 Date meas: 6/20/72 Yield: 60 gpm Method: determined
 Drawdown: 10 ft. Accuracy: PERT Pumping period: 21 hrs.
 QUALITY OF WATER DATA: Iron _____ Sulfate _____ Chloride _____ Hard. _____
 Sp. Conduct _____ Temp. _____
 Taste, color, etc. _____

HYDROGEOLOGIC CARD

39N-5W-15Wd01
 Latitude-Longitude 46.43 28.1165630
 SAME AS ON MASTER CARD Physiographic Province: COLUM PLAT Section: WALLA WALLA
 PLAT A Drainage Basin: SOFR PALOUSE Subbasin: _____
 Top of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp, (E) offshore, pediment, hillside, terrace, undulating valley flat, (F) _____, (G) _____, (H) _____, (I) _____, (J) _____, (K) _____, (L) _____
 MAJOR AQUIFER: _____ system _____ series _____ aquifer, formation, group _____
 Lithology: _____ Origin: _____ Thickness: _____
 Length of well open to: 125 ft. Depth to top of: _____ ft.
 MAJOR AQUIFER: _____ system _____ series _____ aquifer, formation, group _____
 Lithology: _____ Origin: _____ Thickness: _____
 Length of well open to: _____ ft. Depth to top of: _____ ft.
 Intervals Screened: 10" CSE 0-64'; 8" CSE 64-226' PERF 64-145'
 Depth to consolidated rock: _____ ft. Source of data: _____
 Depth to basement: _____ ft. Source of data: _____
 Surficial Material: _____ Infiltration Characteristics: _____
 Coefficient of permeability: _____ spd/ft. Coefficient of storage: _____
 Transmissivity: _____ spd/ft.² Spec cap: 6.0 ppm/ft. Number of geologic cards: _____



WELL IS IN PUMP-HOUSE, ABOUT 100 FT EAST OF LANE

Form B-2 (6-1-72)

Level Note Sheet
(For filing with well record)

U.S.G.S.-WRD-Boise

State Idaho County Latah Well No. 39N-5W-15 odc 1Prepared by Woody Triley Date leveled May 1, 1973Survey party Hepper & Combs Agency Pvt.

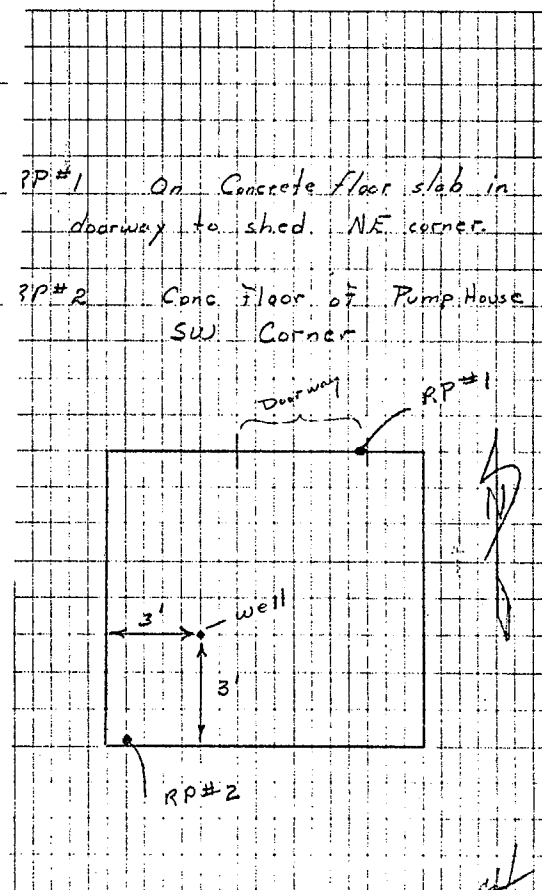
Level book (Name Number Page)

Control: Levelled from (USC&GS, USGS, IDPW, Other IGS) BM No.A 345 (Line) Quad No. 1 Ida. Date Jun Aug 53Leveling order (First, Second Third, Fourth) (Adj., Unadj., Preliminary)datum of 1929, Pac. NW, Supp. Adj. of 1947, Supp. Adj. of1960, Supp. Adj. of _____, Supp. Adj. of _____Method determined: (Spirit) Transit, Alidade, Altimeter, Other _____)Accuracy Order: (First, Second, Third Fourth, Other _____)2606 Land-surface datum. Date estab. May 1, 19732606 Land surface Doorway to Pump House feet of well.2606⁰³ Ref. Mark No. 1. Conc floor slab in NE Corner of door way to pump house2606⁰¹ Ref. Mark No. 2. SW corner of Pump House floor slab2606⁴⁵ Meas. Point No. 1. Date estab. top of csq seal.

Meas. Point No. 2. Date estab. _____

Meas. Point No. 3. Date estab. _____

STA	+	HI	IFS	FS	Elev
BM A345					2604 ³¹
	4 ⁵²	08 ⁸³			
	4 ⁶³	10 ⁷²		2 ⁶⁷	6 ¹⁶
RP#1			4 ⁷⁶		6 ⁰³
Well M.P.			4 ³⁴		6 ⁴⁵
Pump House Floor			4 ⁷⁴		6 ⁰⁵
RP#2			4 ²⁸		6 ⁰¹
				4 ²⁶	6 ⁵³
	2 ¹⁴	8 ⁶⁷			
BM A345				4 ³⁷	2604 ²⁰

~~COPY~~

39N-5W-15d662

39N-5W-15d662

Latitude-Longitude 46 43.18 N 116 56.48 W

MASTER CARD

Record by H.P. DUN Source of data OBS-LOG Date 6/29/72 Map MOSCOW EAST

State IND County LATAH Section 57

Latitude: 46 43 17 N Longitude: 116 56 48 W Sequential number: 1

Locality: 150' T 39 N 150' R 57 S Sec 15 NW, NW, SE, SE, BOISE

Local well number: 2011 05W 150 DR Other number: 2

Local use: CLIFFE LATHAM Owner or name: CLIFFE LATHAM Address: MOSCOW, ID

Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist P

Use of well: Air cond, Bottling, Comm, Dewater, Power, Fire, Irr, Med, Ind, P S, Rac, Stock, Instit, Unused, Recharge, Desal-P S, Desal-other, Other H

Use of well: Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed W

DATA AVAILABLE: Well data 70 Freq. W/L meas.: IRPEG Field aquifer char. 71

Hvd. lab. data: 72

Qual. water data: type: 73

Freq. sampling: 74 Pumpage inventory: 75 no. period: 76

Aperture cards: 77

Log data: DRILLER'S 78 79

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: COLUM PLAT Section: WALLA WALLA

PLAT A Drainage Basin: SOFK PALOUSE Subbasin: 7616

Topo of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp, (E) (F) (H) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) offshore, pediment, hillside, terrace, undulating, valley flat 27 V

MAJOR AQUIFER: system series aquifer, formation, group 28 29 30 31

Lithology: 32 33 Origin: 34 Thickness: 35 ft

Length of well open to: 68 ft 36 37 Depth to top of: 68 ft 38 39

MINOR AQUIFER: system series aquifer, formation, group 40 41 42 43

Lithology: 44 45 Origin: 46 Thickness: 47 ft

Length of well open to: 48 49 ft 50 51 Depth to top of: 52 53 ft 54 55

Intervals Screened: 8" CSG 1-34"; 6" CSG 1-88"

Depth to consolidated rock: 56 ft 57 Source of data: 58

Depth to basement: 59 ft 60 Source of data: 61

Surficial material: 62 63 Infiltration characteristics: 64 65

Coefficient Trans: 66 gpd/ft 67 Coefficient Storage: 68 69

Coefficient Perm: 70 gpd/ft² 71 Spac cap: 72 gpm/ft; Number of geologic cards: 73

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 156 ft 156 Meas. DR LOG 3

Depth cased: 88 ft 88 Casing type: B.T. Diam: 6 in 4

Finish: porous gravel w. gravel w. horiz. open perf., screen, sd. pt., shored, other 5

Method Drilled: air bored, cable, dug, hyd jetted, air reverse, percussive, driven, drive wash, other 6

Date Drilled: 8/27/71 971 Pump intake setting: 36 37

Driller: BURNS & WITT LEWISTON IDAHO

Lift (type): (A) air, bucket, cent, jet, (B) multiple, (C) multiple, (D) multiple, (E) multiple, (F) piston, (G) submers, turb, (H) other 38 Deep 39 Shallow 40

Power (type): diesel, elec, gas, gasoline, hand, gas, wind; H.P. 1 41 Trans. of meter no. 42

Descrip. MP HALE 111 CSG SFB 0.5 ft 43 above below LSD, Alt. MP 44

Alt. LSD: 2595 2595 Accuracy: TAP MAP G.I. 20' 45

Water Level 54.41 ft above 54 below 54 LSD Accuracy: TAP 46

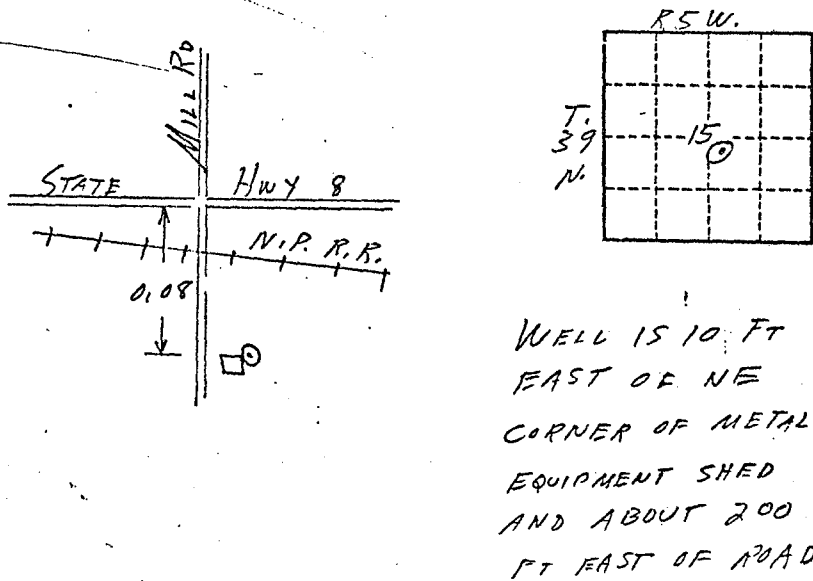
Date meas: 6/29/72 670 Yield: 125 gpm 125 Method determined 47

Drawdown: 48 ft 49 Accuracy: 50 Pumping Period 51 52 hrs 53

QUALITY OF WATER DATA: Iron 54 Sulfate 55 Chloride 56 Hard. 57

Sp. Conduct 58 K x 10⁶ 59 Temp. 60 Date sampled 61 62

Taste, color, etc. 63



39N-5W-15dbb1

39N-5W-15dbb1

Latitude-Longitude 46 43 17 @ 116.56.49

MASTER CARD

Record by N.P. DUN Source of data DBS-LOG Date 6/29/72 Map MOSCOW EAST

State TRND County LATAH Section 5.7

Latitude: 46 43 17 N Longitude: 116 56 49 W Sequential number: 1

Local well number: 2771 015 W 17 D K B 1 Other number: _____

Local use: _____ Owner of name: JOHN ELDRIDGE

Owner or name: JOHN ELDRIDGE Address: MOSCOW, ID

Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist P

Use of well: Air cond, Bottling, Comm, Dewater, Power, Fire, Irr, Ind, P S, Rec, Stock, Inatit, Unused, Recharge, Desal-P S, Desal-other, Other H

Use of well: Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed W

DATA AVAILABLE: Well data 70 Freq. W/L meas.: IRREG Field aquifer char. 71

Evd. lab. data: _____

Qual. water data: type: _____

Freq. sampling: _____ Pumpage inventory: yes 73 no: _____ period: _____

Aperture cards: _____ yes 74 no: _____

Log data: - DRILLER'S 75 76 77

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 186 ft 186 Meas. DR LOG 24 3

Depth cased; (ft at perf.): 98 ft 98 Casing type: B.I.; Diam. 6 in 6

Finish: porous concrete, gravel w. screen, horiz. open perf., gallery, end, other X

Method drilled: air bored, cable, dug, hyd jetted, air reverse, driven, drive wash, other A

Date drilled: 8/30/71 977 Pump intake setting: _____ ft _____

Driller: BURNS & WITT LEWISTON TRND

Lift: (A) air, bucket, cent. jet, (B) multiple, none, piston, rot, submers, turb, other S Deep 40 Shallow _____

Power: (type): diesel, gas, gasoline, hand, gas, wind, H.P. 3/4 Trans. of meter no. 5

Descrip. WP: TOP OF 1/2" PIPE 2.7 ft below LSD, Alt. MP _____

Alt. LSD: 2595 Accuracy: TOP MAP C.I. 71

Water level: 52.56 ft above/below LSD 56 Accuracy: TAPE 72

Date meas: 6/30/72 1277 Yield: 40 gpm 40

Drawdown: _____ ft _____ Accuracy: _____ Pumping period: _____ hr _____

QUALITY OF WATER DATA: Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm Hard. _____ ppm

Sp. Conduct K x 10⁶ Temp. _____ °F _____ Date sampled _____

Taste, color, etc. _____

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: COLUM PLAT Section: WALLA WALLA

PLAT A Drainage Basin: SOFT PALOUSE Subbasin: _____

Topo of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp, (E) offshore, pediment, hillside, terrace, undulating, valley flat 27 V

MAJOR AQUIFER: _____ system _____ series _____ aquifer, formation, group _____

Lithology: _____ Origin: _____ Aquifer Thickness: _____ ft

Length of well open to: 88 ft 88 Depth to top of: _____ ft _____

MINOR AQUIFER: _____ system _____ series _____ aquifer, formation, group _____

Lithology: _____ Origin: _____ Aquifer Thickness: _____ ft

Length of well open to: _____ ft _____ Depth to top of: _____ ft _____

Intervals Screened: 6" CSG 0-98'

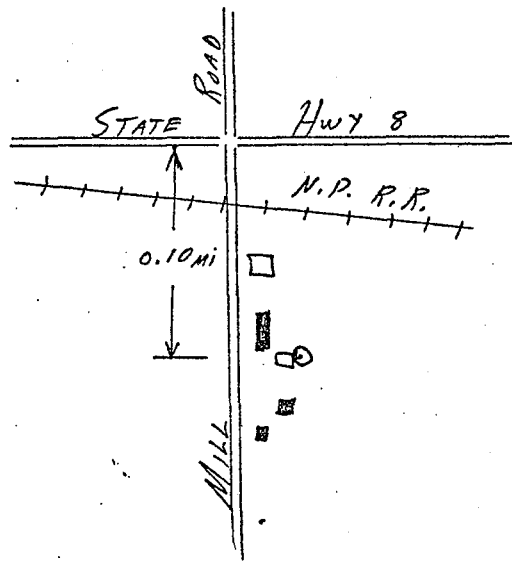
Depth to consolidated rock: _____ ft _____ Source of data: _____

Depth to basement: _____ ft _____ Source of data: _____

Surficial material: _____ Infiltration characteristics: _____

Coefficient Trans: _____ gpd/ft _____ Coefficient Storage: _____

Coefficient Perm: _____ gpd/ft² Spac cap: _____ gpm/ft; Number of geologic cards: _____



WELL IS 10 FT EAST OF GARAGE, IN GALV. PIPE PIT, AND ABOUT 150 FT EAST OF ROAD.

199PST-MS-765

39N-5W-15dbb1

Level Note Sheet
(For filing with well record)State Idaho County Latah Well No. 39N-5W-15dbb2Prepared by Wandy Trihey Date leveled May 1, 1973Survey party Combs & Hepper Agency pvtLevel book _____
(Name Number Page)Control: Levelled from (USC&GS, USGS, IDPW Other _____) BM No.5 (Line) Quad) No. 1 Ida. Date Jun-Aug '53Leveling order (First, Second Third, Fourth) (Adj., Unadj., Preliminary)datum of 1929, Pac. NW, Supp. Adj. of 1947, Supp. Adj. of1960, Supp. Adj. of _____, Supp. Adj. of _____Method determined: (Spirit) Transit, Alidade, Altimeter, Other _____)Accuracy Order: (First, Second, Third, Fourth, Other _____)2591⁶ Land-surface datum. Date estab. May 1, 19732591⁶¹ Land surface 1 feet North of well.2592⁵¹ Ref. Mark No. 1, IDPW Bm #5Approx 450 Feet North of well @ NE corner of Mill Rd andRef. Mark No. 2, State Highway 8 Intersection2592⁰³ Meas. Point No. 1. Date estab. Top of well CSG seal.

Meas. Point No. 2. Date estab. _____

Meas. Point No. 3. Date estab. _____

Level Note Sheet
(For filing with well record)State Idaho County Latah Well No. 39N-5W-15dbb1Prepared by Woody Trihey Date leveled May 1, 1973Survey party Combs & Hepper Agency pvtLevel book _____
(Name Number Page)Control: Levelled from (USC&GS, USGS, IDPW Other _____) BM No.5 (Line, Quad) No. 1 Ida. Date Jun-Aug '53Leveling order (First, Second Third, Fourth) (Adj., Unadj., Preliminary)datum of 1929, Pac. NW, Supp. Adj. of 1947, Supp. Adj. of1960, Supp. Adj. of _____, Supp. Adj. of _____Method determined: (Spirit) Transit, Alidade, Altimeter, Other _____)Accuracy Order: (First, Second, Third, Fourth, Other _____)2593⁵ Land-surface datum. Date estab. May 1, 19732593⁴⁵ Land surface 1⁰ feet East of well.2592⁵¹ Ref. Mark No. 1, IDPW #5 Approx550 to 600 feet North of well @ NE corner ofRef. Mark No. 2, Mill Rd and state Highway #8 Intersection2590⁵⁴ Meas. Point No. 1. Date estab. Top of well CSG Seal

Meas. Point No. 2. Date estab. _____

Meas. Point No. 3. Date estab. _____

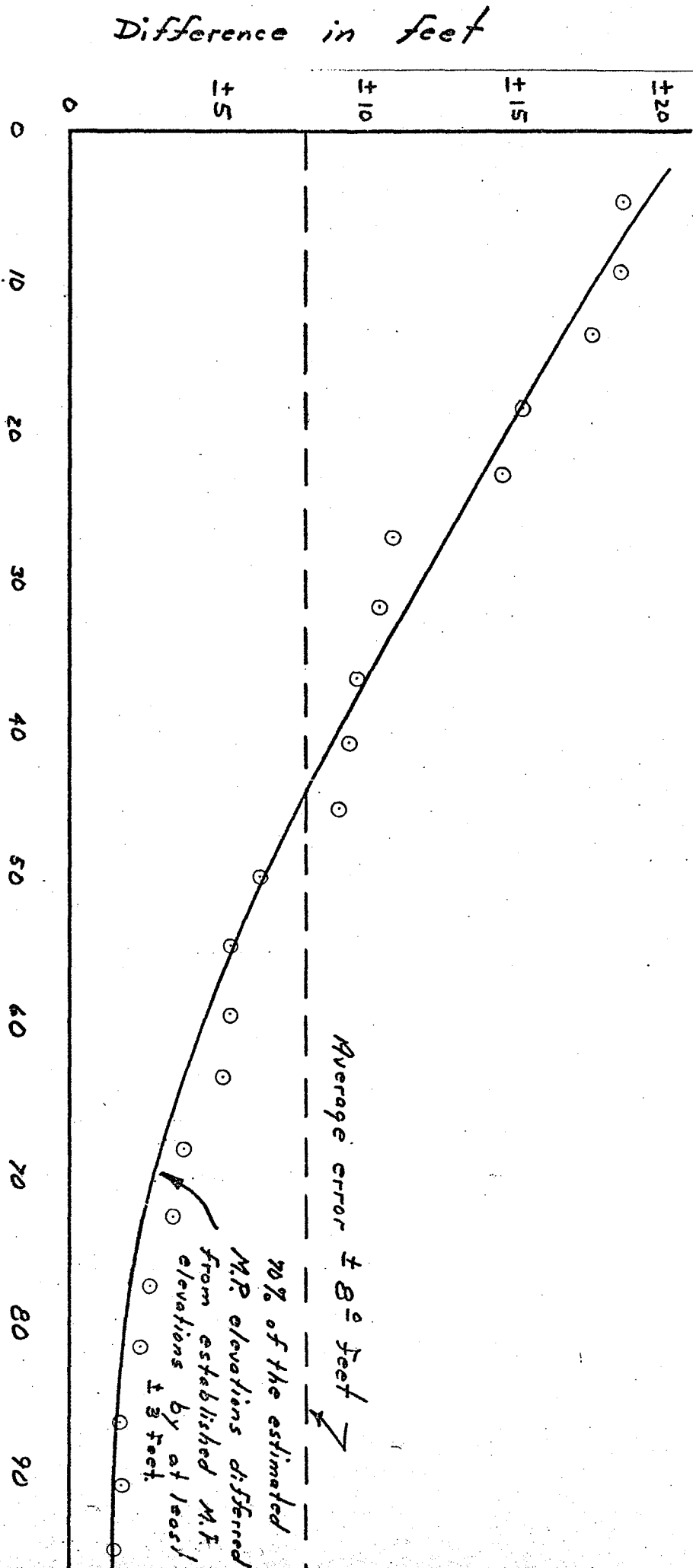
Sta	+	HT	-	IFS	Elev
BM #5					2592.51
	4 ²¹	96 ⁷²			
			3 ⁵³		93 ¹⁹
	2 ³⁷	95 ⁵⁵			
RP#1			3 ⁰²	92 ⁵⁴	
RP#2			3 ⁰⁰	92 ⁵⁶	
Ground			3 ⁹⁵	91 ⁶¹	
Well M.P.				92 ⁰³	
	3 ⁹¹	95 ⁹¹			
			5 ⁴⁷	90 ²⁷	
			2 ⁴⁸	93 ⁴⁵	
Well M.P.				90 ⁵⁴	
	4 ³⁴	94 ⁸⁸			
			2 ⁸⁵	92 ⁰³	
	3 ⁵⁸	95 ⁶¹			
			2 ⁴³	93 ¹⁵	
	3 ⁹⁸	97 ¹⁴			
BM #5			4 ⁴⁶		2592.50

COPY

DIETZEN NO. 385-3

RP#1	Top of conc well pit south side
RP#2	Top of conc well pit N side
19	Top of conc well pit
CHM William Well	M.P. Top of Essg. scd.
End	19 E of Well Pit
Top	sq. scd. on Eldridge well

Integrated Histogram showing Difference between Established and Estimated Measuring Point Elevations for Wells in the Moscow Subbasin, Idaho



% of wells with an error equal to or greater than that indicated

39N-5W-15d66b)

39N-5W-15d66b1

Latitude-Longitude 46 43 17 N 116 56 49 W

MASTER CARD

Record by N.P. DUN Source of data 085-206 Date 6/29/72 Map MOSCOW EAST

State IDAHO County LATAH Section 57

Latitude: 46 43 17 N Longitude: 116 56 49 W Sequential number: 1

Local well number: 1501 Other number: B & H

Local use: WATER Owner of name: JOHN ELDRIDGE

Owner of name: JOHN ELDRIDGE Address: MOSCOW, ID

Ownership: County, Fed Gov't, City, Corp of Co, Private, State Agency, Water Dist P

Use of well: Air cond, Bottling, Comm, Dewater, Power, Fire, Dom, Irr, Mad, Ind, P S, Rec, Stock, Instic, Unused, Repressure, Recharge, Desal-P S, Desal-other, Other H

Date of well: Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed W

DATA AVAILABLE: Well data 70 Freq. W/L meas.: IRREG Field aquifer char. I

Qual. water data: EXPS

Aperture cards: no

Log data: DRILLER'S

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 186 ft. Meas. depth accuracy 3

Depth cased: 98 ft. Casing type: B.I. ; Diam. 6 in

Finish: porous gravel w. gravel w. horiz. open concrete, (perfl.), (screen), gallery, end, perf., screen, sd. pt., shored, other X

Method drilled: rot. ; Date drilled: 8/30/71 Pump intake setting: 9.7 ft

Driller: BURNS & WITT, LEWISTON IDAHO

Lift (type): air ; Power (type): diesel ; Descrip. MP: TOP OF 1/2" RISE ; Alt. LSD: 2595 ; Water level: 52.56 ft. ; Date meas: 6/29/72 ; Yield: 40 gpm ; Draw down: 0 ft. ; Sp. Conduct: 150 ; Temp. 74 °F

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: COLUM PLAT Section: WALLA WALLA

PLAT A Drainage Basin: SOFT PALOUSE Subbasin: 20

Topo of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp, (E) offshore, pediment, hillside, terrace, undulating, valley flat V

MAJOR AQUIFER: system series aquifer, formation, group 30

Lithology: Length of well open to: 88 ft. Depth to top of: 88 ft.

MINOR AQUIFER: system series aquifer, formation, group 40

Lithology: Length of well open to: 0 ft. Depth to top of: 0 ft.

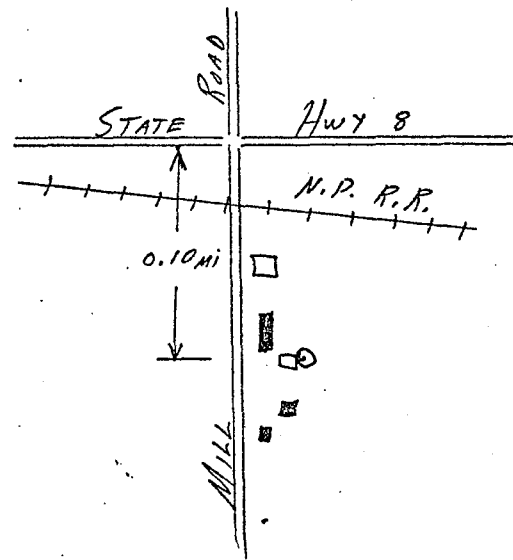
Intervals Screened: 6" GSG 0-98'

Depth to consolidated rock: 0 ft. Source of data: 0

Depth to basement: 0 ft. Source of data: 0

Surficial material: 0 ; Infiltration characteristics: 0

Coefficient of storage: 0 ; Coefficient of permeability: 0 ; Perm: 0 ; Spec cap: 0 ; Number of geologic cards: 0



WELL IS 10 FT EAST OF GARAGE, IN GALV. PIPE PIT, AND ABOUT 150 FT EAST OF ROAD.

199P 51-MS-1163

199P 51-MS-1163

Level Note Sheet
(For filing with well record)

U.S.G.S.-WRD-Boise

State Idaho County Latah Well No. 39N-5W-15dbb2Prepared by Woody Trihey Date leveled May 1, 1973Survey party Combs & Hepper Agency pvtLevel book _____
(Name _____ Number _____ Page _____)Control: Levelled from (USC&GS, USGS, IDPW Other _____) BM No.5 (Line, Quad) No. 1 Ida. Date Jun-Aug '53Leveling order (First, Second, Third, Fourth) (Adj., Unadj., Preliminary)datum of 1929, Pac. NW, Supp. Adj. of 1947, Supp. Adj. of1960, Supp. Adj. of _____, Supp. Adj. of _____Method determined: (Spirit, Transit, Alidade, Altimeter, Other _____)Accuracy Order: (First, Second, Third, Fourth, Other _____)2591⁶ Land-surface datum. Date estab. May 1, 19732591⁶¹ Land surface 1 feet North of well.2592⁵¹ Ref. Mark No. 1, IDPW Bm #5Approx. 450 Feet North of well @ NE corner of Mill Rd andRef. Mark No. 2, state Highway B Intersection2592⁰³ Meas. Point No. 1. Date estab. Top of well csq seal.

Meas. Point No. 2. Date estab. _____

Meas. Point No. 3. Date estab. _____

Level Note Sheet
(For filing with well record)

U.S.G.S.-WRD-Boise

State Idaho County Latah Well No. 39N-5W-15dbPrepared by Woody Trihey Date leveled May 1, 1973Survey party Combs & Hepper Agency pvtLevel book _____
(Name _____ Number _____ Page _____)Control: Levelled from (USC&GS, USGS, IDPW Other _____) BM No.5 (Line, Quad) No. 1 Ida. Date Jun-Aug '53Leveling order (First, Second, Third, Fourth) (Adj., Unadj., Preliminary)datum of 1929, Pac. NW, Supp. Adj. of 1947, Supp. Adj. of1960, Supp. Adj. of _____, Supp. Adj. of _____Method determined: (Spirit, Transit, Alidade, Altimeter, Other _____)Accuracy Order: (First, Second, Third, Fourth, Other _____)2593⁵ Land-surface datum. Date estab. May 1, 19732593⁴⁵ Land surface 1⁰ feet East of well.2592⁵¹ Ref. Mark No. 1, IDPW #5 Approx550 to 600 Feet North of well @ NE corner ofRef. Mark No. 2, Mill Rd and state Highway # B Intersection2590⁵⁴ Meas. Point No. 1. Date estab. Top of well csq seal

Meas. Point No. 2. Date estab. _____

Meas. Point No. 3. Date estab. _____

Sta	+	HI	-	IFS	Elev
BM #5					2592.51
	4.21	96.72			
			3.53		93.19
	2.37	95.54			
RP#1			3.02		92.54
RP#2			3.00		92.56
Ground			3.95		91.61
Well N.P.			3.53		92.03
	3.91	95.94			
			5.47		90.77
			2.42		93.45
Well N.P.			5.40		90.54
	4.34	94.93			
			2.85		92.03
	3.58	95.41			
			2.43		93.15
	3.98	97.14			
BM #5			4.46		2592.50

COPY

DIETZGEN NO. 385-3

RP#1	Top of concrete well pit South side
RP#2	Top of concrete well pit N side
10 ft	W of concrete well pit
CHS	William Well N.P. Tap & Test
Ground	10 E of Well Pit
Top sq. area	one Aldridge well

39N-6W-12bddd1

39N-6W-12bddd1

Latitude-longitude 46.44.18 N 117.01.58 W

MASTER CARD

Record by U.P. 1/1/11 Source of data UOE I OPS-FILES Date 6/27/72 Map MOSCOW WEST

State IND County LATAH Section 5.7

Latitude: 46.44.18 N Longitude: 117.01.58 W Sequential number: 1

Local well number: 11 03 14 11 20 D 1 Other number: HODGSON

Local use: WIC VANDER GOMERY Owner of name: VICTOR HODGSON Address: MOSCOW, IN

Ownership: County, Fed Gov't, City, Corp of Co, Private, State Agency, Water Dist. P

Use of well: Air cond, Bottling, Comm, Dewater, Power, Fire, Irr, Mad, Ind, P, S, Rec, Stock, Instit, Unused, Recharge, Desal-P S, Desal-other, Other. H

Use of well: Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw Waste, Destroyed. W

DATA AVAILABLE: Well data 70 Freq. W/L meas.: IPREG Field aquifer char. 73

Byd. lab. data: 74

Qual. water data: 75

Freq. sampling: 76 Pumpage inventory: 77

Aperture cards: 78

Log data: 79

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 122 ft Meas. accuracy: 6

Depth cased; (dist perf.): 6 ft Casing type: B.I.; Diam. 6 in

Finish: porous gravel v. concrete, (part.), (screen), (gravel v. (screen)), horiz. gallery, end, open perf., screen, sd. pt., shored, open hole. 31

Method: (A) air bored, (B) cable dug, (C) cable rot., (D) aug., (E) hyd. jetted, (F) air rot., (G) reverse, (H) percussive, (I) trenching, (J) driven, (K) rotary, (L) other. 32

Date drilled: 1967 Pump intake setting: 7 ft

Driller: A.E. Hill address MOSCOW, IN

Lift: (type): air, bucket, cent., jet, multiple, multiple, none, piston, rot., submers, turb, other. S Deep 33 Shallow 40

Power: (type): diesel, elec, gas, gasoline, hand, gas, wind, E.P. 5 Trans. or meter no. 41

Descrip. MP None in case 3.0 ft below LSD, Alt. MP

Alt. LSD: 2592 Accuracy: Top Mar O.I 20' 4

Water level: 69.72 ft above MP; Ft below LSD 7.3 Accuracy: Tap 52

Date meas: 6/27/72 Yield: 10 gpm 1.0 Method determined 57

Drawdown: 0 ft Accuracy: 0 hrs 58

QUALITY OF WATER DATA: Iron 0 ppm Sulfate 0 ppm Chloride 0 ppm Hard. 72

Sp. Conduct 0 K x 10⁶ Temp. 0 °F Date sampled 73

Taste, color, etc. 74

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: COLUM PLAT Section: WALLA WALLA

PLAT A Drainage Basin: SFF PALOUSE Subbasin: 7.6.6

Top of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp, (E) offshore, pediment, hillside, terrace, (F) undulating, valley flat. 37

MAJOR AQUIFER: system series 32 33 aquifer, formation, group 34 35

Lithology: 32 33 Origin: 34 Aquifer Thickness: 35 ft

Length of well open to: 32 33 ft Depth to top of: 34 35 ft

MINOR AQUIFER: system series 44 45 aquifer, formation, group 46 47

Lithology: 46 47 Origin: 48 Aquifer Thickness: 49 ft

Length of well open to: 46 47 ft Depth to top of: 48 49 ft

Interval Screened: 50

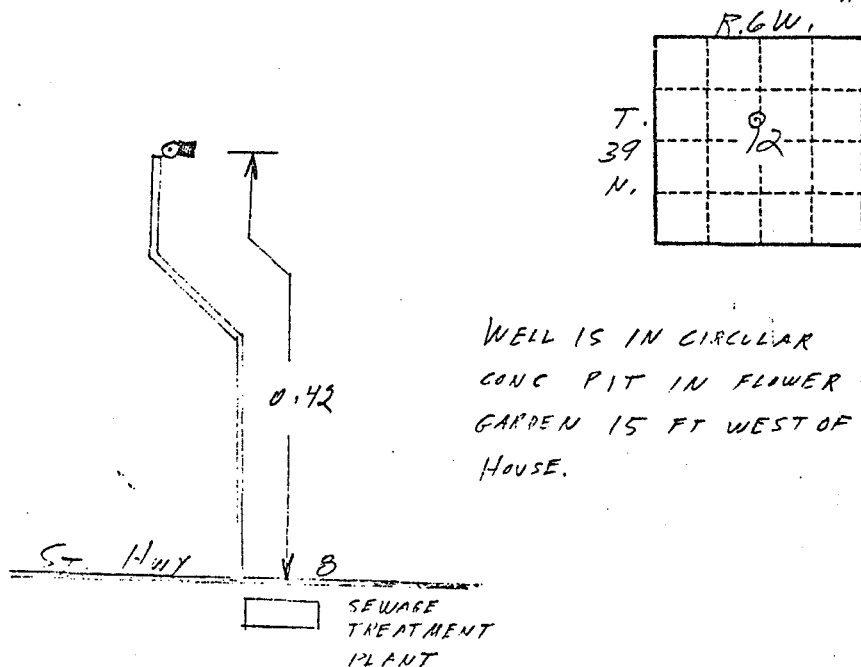
Depth to consolidated rock: 50 51 ft Source of data: 52

Depth to basement: 53 54 ft Source of data: 55

Surficial material: 56 57 Infiltration characteristics: 58

Coefficient of storage: 59 60 spd/ft 61 62 Coefficient of storage: 63 64

Ferm: 65 spd/ft² 66 Spac cap: 67 68 gpm/ft; Number of geologic cards: 69



WELL IS IN CIRCULAR CONG PIT IN FLOWER GARDEN 15 FT WEST OF HOUSE.

ϕ	+	HI	-	IFS	Elev
Well	5 ⁰⁵	2611 ⁰⁰			2606 ⁷⁵
				1 ⁹³	2609 ⁰⁷
				1 ⁸¹	2609 ⁹⁹
			8 ⁹³		2602 ⁰²
	1 ⁰⁵	2603 ⁷²			
			11 ²⁵		92 ⁶⁷
	0 ⁰²	92 ⁶⁹			
			8 ⁶⁴		84 ⁰⁵
	5 ⁵¹	89 ⁵⁶			
			12 ⁰⁴		77 ⁵²
	0 ⁴⁶	77 ⁹⁸			
			9 ⁶⁷		68 ³¹
	6 ⁴²	74 ⁹³			
			0 ⁴²		74 ⁴⁴
	4 ²³	79 ¹⁷			
			2 ⁴⁰		76 ²⁷
	2 ⁰⁴	78 ⁰¹			
			4 ⁵⁸		74 ²³
	7 ⁷⁸	82 ⁰¹			
			3 ⁷⁶		78 ²⁵
	10 ⁴⁷	88 ²²			
			1 ⁸⁸		86 ⁸⁴
	12 ⁴⁵	99 ²⁴			
			2 ⁹⁹		2596 ²⁵
	9 ²⁴	2605 ⁴⁹			
Bm			2 ³⁴		2603 ¹⁵
5348					
		12			

Top of Well csg Seal
End immediately N of well pit
Side walk 4' South of well

Form B-2 (6-1-72)

Level Note Sheet
(For filing with well record)

U.S.G.S.-WRD-Bois

State Idaho County Latah Well No. 39N-6W-12 bdd1
 Prepared by Woody Tribey Date leveled May 23, 1973
 Survey party Marks & Scott Agency Pvt.
 Level book _____ (Name _____ Number _____ Page _____)
 Control: Levelled from (USC&GS, USGS, IDPW, Other _____) BM No. 5348 (Line, Quad) No. 1 Ida. Date _____
 Leveling order (First, Second, Third, Fourth) (Adj., Unadj., Preliminary)
 datum of 1929, Pac. NW, Supp. Adj. of 1947, Supp. Adj. of 1960, Supp. Adj. of _____, Supp. Adj. of _____

Method determined: (Spirit) Transit, Alidade, Altimeter, Other _____

Accuracy Order: (First, Second, Third, Fourth, Other _____)

2609⁹ Land-surface datum. Date estab. May 23, 1973
2609⁸⁷ Land surface immediately N of well.
2609⁹⁹ Ref. Mark No. 1, Side walk 4' South of well

Ref. Mark No. 2, _____

2606⁷⁵ Meas. Point No. 1. Date estab. Top of Well csg seal

Meas. Point No. 2. Date estab. _____

Meas. Point No. 3. Date estab. _____

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

40N-5W-3100d1

MASTER CARD

Record by N.P. Dixon Source of data UOFI FILES Date 6/28/72 Map VIOLA, WASH

State INDIAN County LATAW Section 57

Latitude: 46° 45' 47" N Longitude: 117° 00' 42" W Sequential number: 1

Local well number: 40N 5W 3100AD 1 Other number: _____

Local use: _____ Owner or name: N.T. CARSON Address: MOSCOW, IN

Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist P

Use of well: Air cond, Bottling, Comm, Dewater, Power, Fire, Irr, Ind, P S, Rec, Stock, Instit, Unused, Recharge, Desal-P S, Desal-other, Other H

Well: Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed W

DATA AVAILABLE: Well data 70 Freq. W/L meas.: IRREG Field aquifer char. 71

Evd. lab. date: _____

Qual. water data: Type: _____

Freq. sampling: _____ Pumpage inventory: no. period: _____

Aperture cards: _____

Log data: _____

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 190 ft Meas. 180 ft accuracy _____

Depth cased: 160 ft Casing 6 in. Exp.: _____

Finish: porous gravel w. gravel w. horiz. open concrete, (perf.), (screen), gallery, end, other _____

Method: (A) bored, (B) cable, (C) dug, (D) hyd jetted, (E) air reverse, (F) percussive, (G) rotary, (H) other _____

Date Drilled: _____ Pump intake setting: _____ ft

Driller: _____

Lift: (A) air, (B) bucket, (C) cent. jet, (D) multiple, (E) multiple, (F) nose, (G) piston, (H) rot., (I) submerg., (J) turb., (K) other _____

Power: (A) diesel, (B) elec., (C) gas, (D) gasoline, (E) hand, (F) gas, (G) wind, (H) H.P. _____

Trans. or meter no. 5

Descrip. HOLE IN CGR SEAL 1-2 ft above SD, Alt. MP

Alt. LSD: 2630 Accuracy: 2630 (source) TAPE 20'

Water Level: 93.17 ft above 9.4 ft below LSD Accuracy: TAPE

Date: 6/8/72 Yield: _____

Drawdown: _____ ft Accuracy: _____

QUALITY OF WATER DATA: Iron _____ Sulfate _____ Chloride _____ Hard. _____

Sp. Conduct _____ K x 10⁵ Temp. _____ Date analyzed _____

Taste, color, etc. Hard, 200 FC

WELL NO. 40N-5W-3100AD1

40N-5W-3100d1

Latitude-Longitude 46.45.47° 117.00.42°

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: COLUM PLAT Section: WALLA WALLA

PLAT A Drainage Basin: SOFT PALOUSE Subbasin: _____

Topo of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp, (E) offshore, pediment, hillslope, terrace, (F) undulating, (G) valley flat U

MAJOR AQUIFER: system _____ series _____ aquifer, formation, group _____

Lithology: _____ Origin: _____ Aquifer Thickness: _____

Length of well open to: _____ ft Depth to top of: _____ ft

MINOR AQUIFER: system _____ series _____ aquifer, formation, group _____

Lithology: _____ Origin: _____ Aquifer Thickness: _____

Length of well open to: _____ ft Depth to top of: _____ ft

Intervals Screened: _____

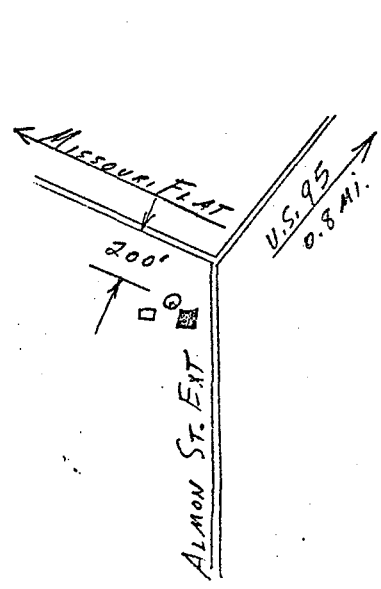
Depth to consolidated rock: _____ ft Source of data: _____

Depth to basement: _____ ft Source of data: _____

Surficial material: _____ Infiltration characteristics: _____

Coefficient Trans: _____ spd/ft _____ Coefficient Storage: _____

Coefficient Perm: _____ gpd/ft² _____ Spec cap: _____ gpm/ft; Number of geologic cards: _____



P. 5W.

T. 40 N.

WELL IS IN SMALL BRICK PIT 10 FT NW OF NW CORNER OF HOUSE, AND 75 FT WEST OF ALMON ST.

WELL NO. 40N-5W-3100AD1

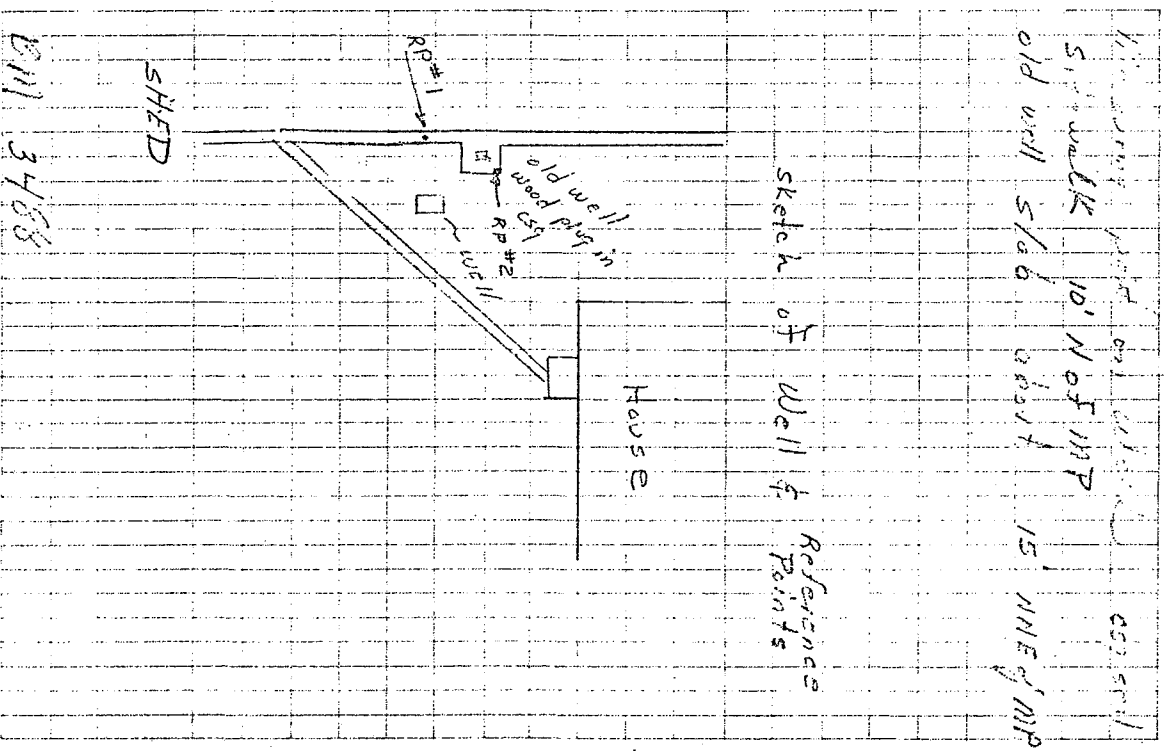
Level Note Sheet
(For filing with well record)State Idaho County Latah Well No. 40N-5W-31 cad 1Prepared by Woody Tokey Date leveled April 29, 1973Survey party Triumph Associates Agency Ret.Level book _____
(Name Number Page)Control: Levelled from (USC&GS, USGS, IDPW, Other IGS) BM No.B 3488 (Line, Quad) No. 2 Ida. Date Jun-Aug '53Leveling order (First, Second, Third, Fourth) (Adj., Unadj., Preliminary)datum of 1929, Pac. NW, Supp. Adj. of 1947, Supp. Adj. of1960, Supp. Adj. of _____, Supp. Adj. of _____Method determined: (Spirit, Transit, Alidade, Altimeter, Other _____)Accuracy Order: (First, Second, Third, Fourth, Other _____)2627⁴⁰ Land-surface datum. Date estab. April 29, 19732627⁴⁰ Land surface 10 feet N of well.2627³⁷ Ref. Mark No. 1, side walk approx
10' north of well2627⁴⁰ Ref. Mark No. 2, SE corner of old
well slab about 15' NNE
from M.P.2627⁰³ Meas. Point No. 1. Date estab. Top of
CSG Seal.

Meas. Point No. 2. Date estab. _____

Meas. Point No. 3. Date estab. _____

Sta	+	HI	IFS	-	Elev
MIP	2 ⁵⁹	29 ⁴¹			26 ²⁷ 02
		29 ⁴¹	2 ⁰⁴		27 ³⁷
	0 ⁸⁵	29 ⁴¹	2 ⁰¹		27 ⁴⁰
	7²²			7 ⁶²	21 ⁷⁹
	2 ⁹⁸	24 ⁷⁶		3 ³³	21 ⁴²
	2 ⁰²	24 ³⁰		10 ⁰²	14 ²⁵
	8 ⁵⁶	22 ⁸¹		1 ⁰³	21 ⁷⁵
	7 ¹⁰	28 ⁸⁵		1 ²⁵	27 ⁵⁷
	9 ⁰³	37 ⁴⁰		0 ⁷²	36 ⁶³
	11 ⁰⁴	47 ⁶²		1 ⁹¹	45 ⁷⁶
	11 ²⁵	57 ¹¹		0 ²⁶	56 ⁸⁵
	12 ³²	69 ²⁴		0 ³³	69 ⁹¹
	10 ¹⁸	78 ⁴²		0 ⁰⁵	78 ⁴²
	8 ³¹	86 ⁷³		6 ⁰¹	86 ⁸⁰ 72

DIETZGEN NO. 365-3



Sta w/11 M/P	+	H.I.	-	Elev
				2627.04
	2 39	29 43	7 36	22 07
	2 70	24 77	3 37	21 40
	2 91	24 31	9 92	14 34
	8 50	22 84	2 02	20 82
	8 03	23 85	1 93	26 93
	10 45	37 38	1 03	36 35
	11 29	47 65	1 26	46 45
	10 64	57 02	0 48	56 61
	12 68	69 23	0 28	68 95
	10 01	78 72	8 71	78 32
	8 41	268 6 73	6 01	268 0 72

DIETZEN NO. 385-3

B.M. B. 3458

U. S. DEPT. OF THE INTERIOR
 GEOLOGICAL SURVEY
 WATER RESOURCES DIVISION

39N-5W-96ab1

MASTER CARD

Record by M.P. DEAN Source of data ORS-106 Date 6/22/72 Map MOSCOW EAST
 State IDAHO County LATAH (or town) LATAH Section 57
 Latitude: 44° 44' 27" N Longitude: 111° 15' 20" W Sequential number: 1
 Local well number: 01514 01914 01714 Other number: _____
 Local use: _____ Owner or name: A.A. FLACK
 Address: Mt View, Moscow
 Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist. P
 Use of well: Air cond, Bottling, Comm, Dewater, Power, Fire, Dom Irr, Mod, Ind, P S, Rec, Stock, Instit, Unused, Recharge, Desal-P S, Desal-other, Other H
 Use of well: Anode, Drain, Seismic, Heat Ex, Obs, Oil-gas, Recharge, Test, Unused, Withdrew, Waste, Destroyed W
 DATA AVAILABLE: Well data 70 Freq. W/L meas.: TRREG Field aquifer char. 71
 Hvd. lab. data: _____
 Qual. water data: type: _____
 Freq. sampling: _____ Pumpage inventory: yes period: _____
 Aperture cards: _____
 Log data: DRILLER'S

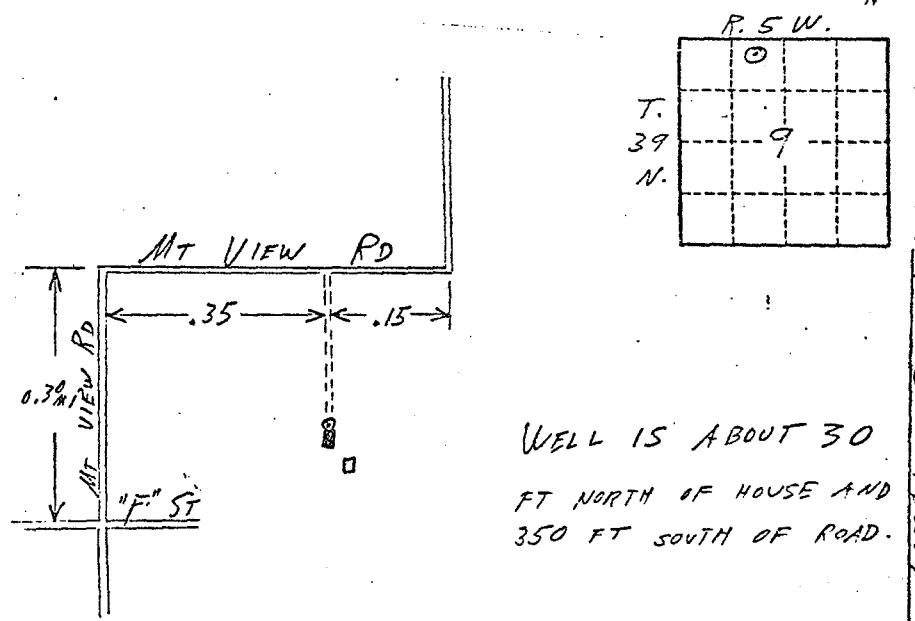
WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 184 ft Accuracy 184 Meas. DELOE
 Depth casing: 150 ft Casing type: R.L. Dia: 8 in
 Finish: concrete, gravel w. horis. open perf., screen, sd. pr., shored, other X
 Method: air bored, cable dug, hyd jetted, air rot., percussion, rotary, drive wash, other G
 Date drilled: 3/15/69 Pump intake setting: _____ ft
 Driller: A.E. SPRAY MOSCOW, IDAHO
 Lift: air, bucket, cent. jet, multiple, none, piston, rot, submerg, turb, other S Deep Shallow
 Power: diesel, elec, gas, gasoline, hand, gas, wind, H.P., net LP 5 Trans. or meter no. _____
 Descrip. MP: NAVE IN CSE SEAL 0.3 ft above/below LSD. Alt. MP _____
 Alt. LSD: 7617 Accuracy: TOP MAP C.T. 20'
 Water level: 120.93 ft above/below MP; ft below LSD Accuracy: _____
 Date meas: _____ Yield: 15 gpm Method determined: 15
 Drawdown: _____ ft Accuracy: _____ Pumping period: _____ hrs
 QUALITY OF WATER DATA: Iron _____ Sulfate _____ Chloride _____ Hard. _____
 Sp. Conduct. _____ K x 10⁶ Temp. _____ Date sampled _____
 Taste, color, etc. _____

"New" well 20's 20's ft

HYDROGEOLOGIC CARD

Latitude-longitude 46.44.38 N 116.58.20 W
 SAME AS ON MASTER CARD Physiographic Province: COLUM PLAT Section: WALLA WALLA
 PLAT A Drainage Basin: SO FR PALOUSE Subbasin: _____
 Top of depression, stream channel, dunes, flat, hilltop, sink, swamp, wall site: _____
 offshora, pediment, hillsides, terrace, undulating, valley flat U
 MAJOR AQUIFER: _____ system _____ series _____ aquifer, formation, group _____
 Lithology: _____ Origin: _____ Aquifer Thickness: _____
 Length of well open to: 34 ft Depth to top of: 34 ft
 MINOR AQUIFER: _____ system _____ series _____ aquifer, formation, group _____
 Lithology: _____ Origin: _____ Aquifer Thickness: _____
 Length of well open to: _____ ft Depth to top of: _____ ft
 Intervals Screened: 8" CSE 0-87'; 6" CSE 70-150'
 Depth to consolidated rock: _____ ft Source of data: _____
 Depth to basement: _____ ft Source of data: _____
 Surficial material: _____ Infiltration characteristics: _____
 Coefficient Trans: _____ gpd/ft² Coefficient Storage: _____
 Coefficient Perm: _____ gpd/ft²; Spec cap: _____ gpm/ft; Number of geologic cards: _____



WELL IS ABOUT 30 FT NORTH OF HOUSE AND 350 FT SOUTH OF ROAD.

Level Note Sheet
(For filing with well record)State Idaho County Latah Well No. 39N-SW-96661Prepared by Wandy Trihey Date leveled 22 May 1973Survey party Marks & Scott Agency pvt.Level book _____
(Name Number Page)Control: Levelled from (USC&GS, USGS, IDPW, Other IGS) BM No. _____W350 (Line) Quad) No. 6 Ida. Date _____Leveling order (First, Second, Third, Fourth) (Adj., Unadj., Preliminary)datum of 1929, Pac. NW, Supp. Adj. of 1947, Supp. Adj. of _____1960, Supp. Adj. of _____, Supp. Adj. of _____Method determined: (Spirit) Transit, Alidade, Altimeter, Other _____)Accuracy Order: (First, Second, Third, Fourth, Other _____)2623⁵ Land-surface datum. Date estab. May 22, 19732623⁴⁵ Land surface 1 feet West of well.2623⁶³ Ref. Mark No. 1, 11 end of sidewalk 12'
SE of well

Ref. Mark No. 2, _____

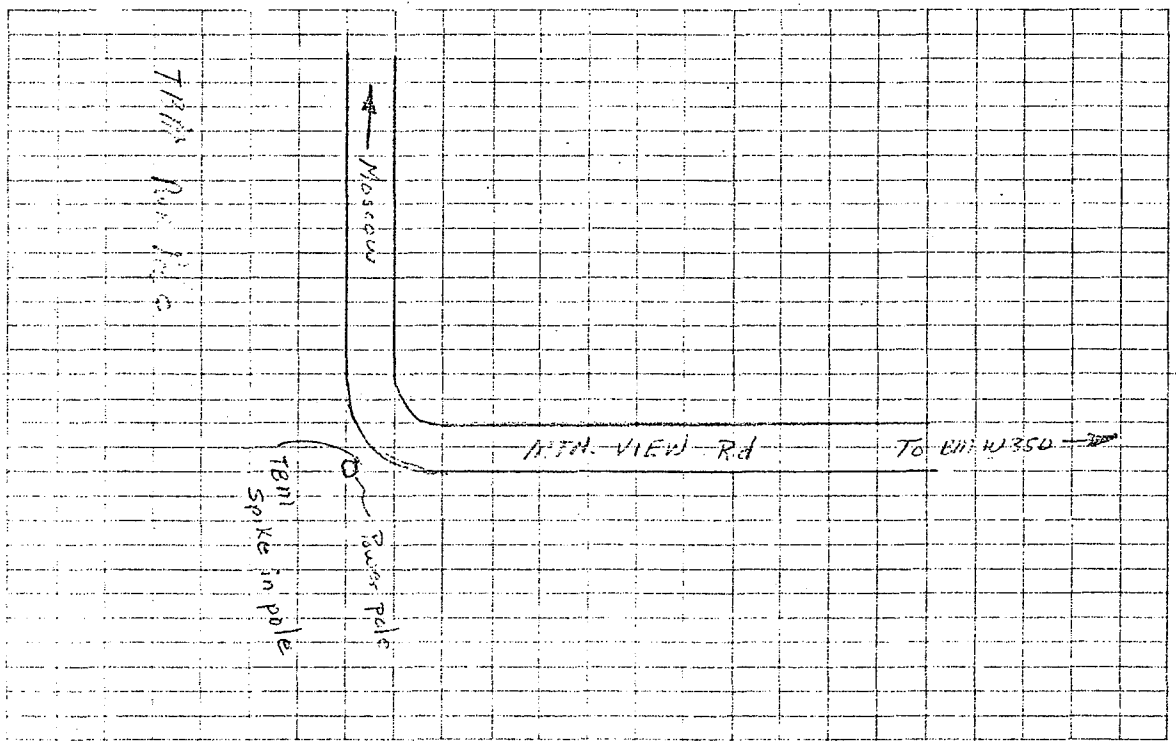
2623⁷⁶ Meas. Point No. 1. Date estab. Top of
seal

Meas. Point No. 2. Date estab. _____

Meas. Point No. 3. Date estab. _____

ϕ	γ	MT	IT	
W 350 R 11				Z 645 65
	4 00	50 55		
	54	49 25	4 14	45 71
	3 16	46 30	6 11	43 14
	2 25	42 78	5 32	40 50
	3 10	40 27	6 46	33 81
	1 34	36 39	3 21	32 43
	0 45	32 86	7 00	25 88
	2 55	28 43	5 26	22 47
	2 36	25 33	6 44	18 78
	4 25	23 71	8 42	2615 69
	20 45		10 11	

DIETZGEN NO. 385-3



DIETZGEN NO. 385-3

Φ	+	HI	-	TFS
7615 ⁷⁰	613	21 ⁸²	308	2615 ⁷⁰
				18 ²⁵
	720	25 ⁴⁵		
	485		458	20 ⁸⁷
	514	25 ⁷²		
			196	23 ⁷⁶
				227
				2345
				203
				23 ⁶⁹
	196	25 ⁷²		
			5	20 ⁶⁴
	515	25 ⁷⁹		
			810	17 ⁶⁹
	415	21 ⁸⁴		
			615	2615 ⁶⁹

Wellcap
 Ground w/ft well (1')

SIDEWALK 12' SE of well

Well for T.M. Down Pipe

TRIM Tower Pole

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

39N-5W-16acc1

MASTER CARD

Record by Crosshair Source of data Anchor Date 7 Nov 72 Map Moscow East 7 1/2

State Idaho County (or town) Latoh Section: 57

Latitude: 43° 15' 43" N Longitude: 111° 05' 43" W Sequential number: 7

Local well number: 15 Other number: 11

Local use: 15 Owner or name: SCHIRMER, LARRY Address: Moscow

Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist P

Use of well: Air cond, Bottling, Comm, Devater, Power, Fire, Dom, Irr, Mad, Ind, P S, Rec, Stock, Inatit, Unused, Reppure, Recharge, Desal-P S, Desal-other, Other C

Use of well: Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed W

DATA AVAILABLE: Well data 1 Freq. W/L meas.: 1 rrcy Field aquifer char. 1

Hvd. lab. data: 1

Qual. water data: type: 1

Freq. sampling: 1 Pumpage inventory: yes 1 no: 1 period: 1

Aperture cards: 1

Log data: 1

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 243 ft Meas. accuracy: number

Depth cased: 1 ft Casing type: steel Diam. 8 in

Finish: porous concrete, gravel w. horix. screen, (perfor.) gallery, end, (screen) gallery, end, other

Method: (A) air bored, (B) cable, (C) dug, (D) hyd jetted, (E) air percuss, (F) reverse, (G) rotary, (H) driven, (I) wash, (J) other

Date drilled: June 1971 Pump intake setting: 971 ft

Driller: Don Town Moscow

Lift: (A) air, (B) bucket, (C) cent. jet, (D) multiple, (E) none, (F) piston, (G) submers, (H) turb, (I) other, (J) Deep, (K) Shallow

Power: (A) diesel, (B) elec, (C) gas, (D) gasoline, (E) hand, (F) gas, (G) wind, (H) LP, (I) Trans. or meter no.

Descrip. Top 9-10-72 5.5' 1.0M ft (above) below LSD, Alt. MP

Alt. LSD: 2285 Accuracy: 20' CI

Water level: 12527 ft above below MP; Ft below LSD 134 Accuracy: 5' Turb

Date meas: 7-2-72 Yield: 1 gpm Method determined: 1

Drawdown: 1 ft Accuracy: 1 Pumping period: 1 hrs

QUALITY OF WATER DATA: Iron 1 ppm Sulfate 1 ppm Chloride 1 ppm Hard. 1 ppm

Sp. Conduct 1 K x 10⁶ Temp. 1 °F Date sampled 1

Taste, color, etc. Hard, Ec

HYDROGEOLOGIC CARD

Latitude-Longitude 39N-5W-16acc1

SAME AS ON MASTER CARD Physiographic Province: 10 Section: 11

Drainage Basin: 1 Subbasin: 1

Top of depression, stream channel, dunes, flat, hilltop, sink, swamp, well site: (D) (C) (E) (F) (H) (K) (L) (S) (T) (U) (V) offshore, pediment, hillside, terrace, undulating, valley flat 1

MAJOR AQUIFER: system 1 series 1 aquifer, formation, group 1 Anuifer Thickness: 1 ft

Lithology: 1 Length of well open to: 1 ft Depth to top of: 1 ft

MINOR AQUIFER: system 1 series 1 aquifer, formation, group 1 Anuifer Thickness: 1 ft

Lithology: 1 Length of well open to: 1 ft Depth to top of: 1 ft

Interval Screened: 1

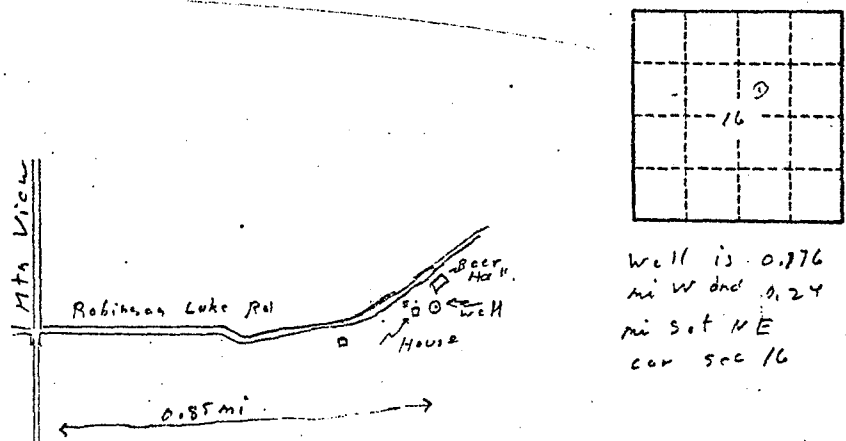
Depth to consolidated rock: 1 ft Source of data: 1

Depth to basement: 1 ft Source of data: 1

Surficial material: 1 Infiltration characteristics: 1

Coefficient of storage: 1 Coefficient of storage: 1

Permeability: 1 gpd/ft²; Spec cap: 1 gpm/ft; Number of geologic cards: 1



Well No. 39N-5W-16acc1

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

39N-5W-16CWR2

MASTER CARD

Record by H.P. Dinn Source of data OBS-LOG Date 6/25/72 Map MOSCOW EAST

State IDAHO County LATAH Sectional number 57

Latitude: 43 18 00 N Longitude: 116 58 00 W Sequential number: 1

Local well number: 39 N 5 W 16 CWR 2 Other number: 1

Local use: DRILLER'S Owner or name: JAMES F. RICNEY Address: MOSCOW, ID

Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist P

Use of well: Air cond, Bottling, Comm, Dewater, Power, Fire, Dom, Irr, Mad, Ind, P S, Rec, Stock, Instic, Unused, Recharge, Desal-P S, Desal-other, Other H

Use of well: Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed W

DATA AVAILABLE: Well data 70 Freq. W/L meas.: LOG Field aquifer char. 71

Hvd. lab. data: 72

Qual. water data: type: 73

Freq. sampling: 74 Pumpage inventory: 75

Aperture cards: 76

Log data: DRILLER'S 77

WELL-DESCRIPTION CARD

Depth well: 425 ft Meas. DR LOG accuracy 3

Depth cased: 419 ft Casing type: B.I. Diam. 6 in

Finish: porous concrete, gravel w. horiz. gallery, open perf., screen, ad. pt., shored, open hole, other 5

Method: air bored, cable, dug, hyd jetted, air reverse, driven, drive rot., percussion, rotary, wash, other 6

Date drilled: 9/16/66 Pump intake setting: 9.66 ft

Driller: PHIL OLSON TROY, IDAHO

Lift: (type): air, bucket, cent. jet, multiple, none, piston, rot., turb, other 5 Deep 40 Shallow 39

Power: (type): diesel, elec, gas, gasoline, hand, gas, wind; H.P. 1 1/2 Trans. or motor no. 7

Descript. MP: HOLE IN GSE SEAL 1.2 ft above LSD, Alt. MP 7

Alt. LSD: 2688 ft Accuracy: TAPE 4

Water level: 185.76 ft below MP; Ft below LSD 18.5 Accuracy: TAPE 52

Date meas: 6/23/72 Yield: 12 gpm Method determined 12

Drawdown: None ft Accuracy: 5 hr 5

QUALITY OF WATER DATA: Iron ppm Sulfate ppm Chloride ppm Hard. ppm

Sp. Conduct K x 10⁶ Temp. °F Date sampled 7/72

Taste, color, etc. Hard Fe

39N-5W-16CWR2

Latitude-longitude 43 18 00 116 58 00

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: COLUM PLAT Section: WALLA WALLA

PLAT A Drainage Basin: SO FR PAJUICE Subbasin: 716.6

Topo of well site: (B) depression, stream channel, dunes, flat, hilltop, sink, swamp, (C) (E) (F) (R) (K) (L) (G) (P) (S) (T) (U) (V) offshore, pediment, hilledge, terrace, undulating, valley flat H

MAJOR AQUIFER: system 1 series 22 23 aquifer, formation, group 30 31

Lithology: 1 Length of well open to: 6 ft Depth to top of: 2 ft

MINOR AQUIFER: system 22 23 aquifer, formation, group 40 41

Lithology: 22 23 Length of well open to: 1 ft Depth to top of: 1 ft

Intervals Screened: 6" CSG 0-419'; 6" JOHNSON TEL. SCRN 419-425' (C.025)

Depth to consolidated rock: 40 ft Source of data: 40

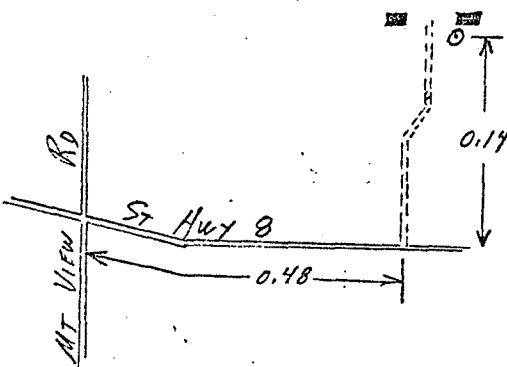
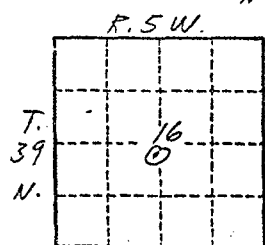
Depth to basement: 41 ft Source of data: 41

Surficial material: 70 71 Infiltration characteristics: 72

Coefficient of trans: 73 gpd/ft Coefficient of storage: 74 75

Coefficient of perm: 76 77 gpd/ft²; Spec cap: 78 spm/ft; Number of geologic cards: 79

Red jacket sub.



WELL IS NEAR CLUMP OF EVERGREEN TREES, ABOUT 30 FT SOUTH OF SW CORNER OF HOUSE.

Well No. 39N-5W-16CWR2

Well No. 39N-5W-16CWR2

WELL SCHEDULE
GEOLOGICAL SURVEY

U. S. DEPT. OF THE INTERIOR

WATER RESOURCES DIVISION

39N-5W-16WdC1

MASTER CARD

Record by H.P. DION Source of data OBS. FILES Date 6/23/72 Map MOSCOW EAST

State INDIANA County LATAH (or town) LATAH Section 5.7

Latitude: 39° 05' 30" N Longitude: 116° 57' 43" W Sequential number: 1

Local well number: 05 W 16 A D C 1 Other number: _____

Local use: _____ Owner or name: C.C. WARRICK Address: MOSCOW, ID

Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist P

Use of well: Air cond, Bottling, Comm, Devater, Power, Fire, Irr, Mad, Ind, P, S, Rec, Water: H

Use of well: Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed W

DATA AVAILABLE: Well data 70 Freq. W/L meas.: IRPEG Field aquifer char. 71

Evd. lab. data: _____

Qual. water data: type: _____

Freq. sampling: _____ Pumpage inventory: yes no, period: _____

Aperture cards: _____

Log data: _____

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 246 ft 246 Meas. accuracy 6

Depth cased: _____ Casing type: B.I. Diam. 6 in

Finish: Porous concrete, gravel w. (perif.), gravel w. (screen), horiz. gallery, open end, perf., screen, sd. pt., shored, open hole, other _____

Method: Air bored, cable, dug, jacked, air rot., percussion, rotary, reverse trenching, driven, drive wash, other _____

Date Drilled: 1956 9.5.56 Pump intake setting: _____ ft

Driller: A.E. SPRAY MOSCOW, ID

Life: (type): air, bucket, cent. jet, multiple, (cent.) (curb.), none, piston, rot., submerg, turb, other 5 Deep _____ Shallow _____

Power: (type): diesel, elec, gas, gasoline, hand, gas, wind, H.P. 5 Trans. or water no. _____

Descrip. MP: 140E IN GSC SEAL 3.0 ft above/below LSD. Alt. MP _____

Alt. LSD: 2700 Accuracy: TOP MAP C.T. 20' 4

Water Level: 192.62 ft above/below MP: Ft. below LSD 196 Accuracy: TAPE A

Date Meas: 6/23/72 Yield: _____ gpm Method determined _____

Drawdown: _____ ft Accuracy: _____ Pumping period _____ hrs

QUALITY OF WATER DATA: Iron _____ Sulfate _____ Chloride _____ Hard. _____

Sp. Conduct K x 10⁶ Temp. _____ Date sampled _____

Taste, color, etc. _____

HYDROGEOLOGIC CARD

39N-5W-16WdC1
Latitude-longitude 46.43.29° N 116.57.43° W

SAME AS ON MASTER CARD Physiographic Province: COLUM PLAT Section: WALLA WALLA

PLAT A Drainage Basin: SO EX PALOUSE Subbasin: _____

Top of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp. (E) offshore, pediment, hillside, terrace, undulating, valley flat S

MAJOR AQUIFER: system _____ series _____ aquifer, formation, group _____

Lithology: _____ Length of well open to: _____ ft Depth to top of: _____ ft

MINOR AQUIFER: system _____ series _____ aquifer, formation, group _____

Lithology: _____ Length of well open to: _____ ft Depth to top of: _____ ft

Intermittently Screened: _____

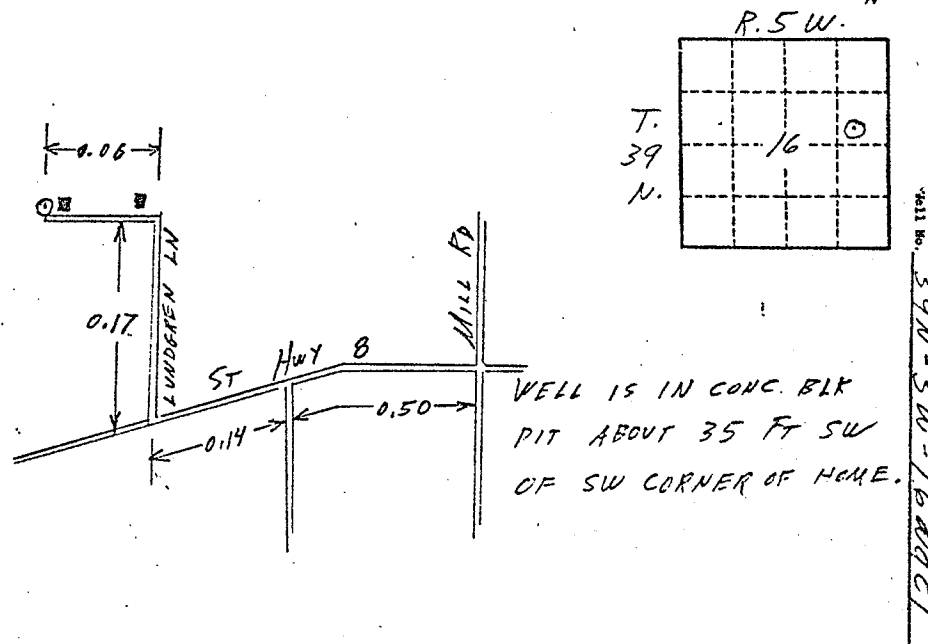
Depth to consolidated rock: _____ ft Source of data: _____

Depth to basement: _____ ft Source of data: _____

Surficial material: _____ Infiltration characteristics: _____

Coefficient Trans: _____ gpd/ft² Coefficient Storage: _____

Coefficient Perm: _____ gpd/ft²; Spec cap: _____ gpd/ft; Number of geologic cards: _____



Form B-2 (6-1-72) U.S.G.S.-WRD-Boise
 Level Note Sheet
 (For filing with well record)
 State Idaho County Latah Well No. 39N-5W-16acc
 Prepared by Woody Tribey Date leveled May 5, 1973
 Survey party Tribey & Assoc. Agency pit
 Level book _____
 (Name Number Page)
 Control: Levelled from (USC&GS, USGS, IDPW Other _____) BM No. _____
DPW #3 (Line, Quad) No. _____ Ida. Date _____
 Leveling order (First, Second, Third, Fourth) (Adj., Unadj., Preliminary)
 datum of 1929, Pac. NW, Supp. Adj. of 1947, Supp. Adj. of
1960, Supp. Adj. of _____, Supp. Adj. of _____

Method determined: (Spirit) Transit, Alidade, Altimeter, Other _____
 Accuracy Order: (First, Second, Third Fourth, Other _____)
2635⁶ Land-surface datum. Date estab. May 5, 1973
2635⁵² Land surface 1 feet South of well
2646²⁹ Ref. Mark No. 1, concrete slab at the west entrance to schierman's tavern approx 350' NE of well.
None Handy Ref. Mark No. 2, _____
2636³³ Meas. Point No. 1. Date estab. Top of cover locked onto csq.
 Meas. Point No. 2. Date estab. _____
 Meas. Point No. 3. Date estab. _____

Form B-2 (6-1-72) U.S.G.S.-WRD-Boise
 Level Note Sheet
 (For filing with well record)
 State Idaho County Latah Well No. 39N-5W-16acc
 Prepared by Woody Tribey Date leveled May 5, 1973
 Survey party Tribey & Assoc. Agency pit
 Level book _____
 (Name Number Page)
 Control: Levelled from (USC&GS, USGS, IDPW Other _____) BM No. _____
DPW #3 (Line, Quad) No. _____ Ida. Date _____
 Leveling order (First, Second, Third, Fourth) (Adj., Unadj., Preliminary)
 datum of 1929, Pac. NW, Supp. Adj. of 1947, Supp. Adj. of
1960, Supp. Adj. of _____, Supp. Adj. of _____

Method determined: (Spirit) Transit, Alidade, Altimeter, Other _____
 Accuracy Order: (First, Second, Third Fourth, Other _____)
2696⁷ Land-surface datum. Date estab. May 5, 1973
2696⁶⁸ Land surface 3 feet west of well.
2696³⁹ Ref. Mark No. 1, SE corner of cinder block well pit
2696³³ Ref. Mark No. 2, SE corner of the first step on front porch of House.
2693²² Meas. Point No. 1. Date estab. Top of well csq seal.
 Meas. Point No. 2. Date estab. _____
 Meas. Point No. 3. Date estab. _____

Form B-2 (6-1-72) U.S.G.S.-WRD-Boise
 Level Note Sheet
 (For filing with well record)
 State Idaho County Latah Well No. 39N-5W-16acc
 Prepared by Woody Tribey Date leveled May 5, 1973
 Survey party Tribey & Associates Agency pit
 Level book _____
 (Name Number Page)
 Control: Levelled from (USC&GS, USGS, IDPW Other _____) BM No. _____
DPW #3 (Line, Quad) No. _____ Ida. Date _____
 Leveling order (First, Second, Third, Fourth) (Adj., Unadj., Preliminary)
 datum of 1929, Pac. NW, Supp. Adj. of 1947, Supp. Adj. of
1960, Supp. Adj. of _____, Supp. Adj. of _____

Method determined: (Spirit) Transit, Alidade, Altimeter, Other _____
 Accuracy Order: (First, Second, Third Fourth, Other _____)
2693³ Land-surface datum. Date estab. May 5, 1973
2693³⁴ Land surface 10 feet North of well
2694¹⁶ Ref. Mark No. 1, SE corner of driveway slab Rd. held against SW corner of Garage
2695²³ Ref. Mark No. 2, Top of csq on neighbor well.
2694⁵⁹ Meas. Point No. 1. Date estab. Top of well csq seal (No coal)
 Meas. Point No. 2. Date estab. _____
 Meas. Point No. 3. Date estab. _____

ϕ	+	HI	-	IFS
	0.60	81.19	13.05	68.14
	0.52	68.66		
	0.85	57.98	11.54	57.12
	4.14	51.02	11.05	46.93
	4.37	42.27	12.77	38.40
	4.37	68.11		63.74
	6.44	263.63	6.44	263.63
	7.20	35.51	7.20	35.51
	6.55	36.22	6.55	36.22
	6.90	43.12	6.90	43.12
	2.13		2.13	
	26.40		26.40	

ϕ	+	HI	-	IFS
	11.43	93.13	11.43	90.54
	2.68	81.20	2.68	80.64
	0.59	12.45	0.59	12.45
	0.61	65.68	0.61	65.68
	0.44	57.99	0.44	57.99
	4.75	10.47	4.75	10.47
	3.55	51.02	3.55	51.02
	4.32	42.27	4.32	42.27
	6.44	12.62	6.44	12.62
	26.36	38.45	26.36	38.45

MASTER CARD

Record by H. P. DION Source of data URS-FILES Date 6/27/72 Map MOSCOW WEST
 State IDAHO County LATAH Sectional number 57
 Latitude: 44° 11' 00" N Longitude: 117° 02' 08" W
 Local well number: 390 Sec 13, SW 1/4, NE 1/4, SW 1/4, BOISE
 Local use: SCOTFIELD
 Owner or name: ERNEST HARTUNG Address: MOSCOW, ID
 Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist P
 Use of well: Air cond, Bottling, Comm, Dewater, Power, Fire, Dom, Irr, Msd, Ind, P S, Rec, Stock, Inatt, Unused, Recharge, Desal-P S, Desal-other, Other H
 Well: Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed W
 DATA AVAILABLE: Well data 70 Freq. W/L meas.: IRREG 71 Field aquifer char. 72
 Hyd. lab. data: 73
 Qual. water data; type: 74
 Freq. sampling: 75 Pumpage inventory: no, period: 76
 Aperture cards: 77
 Log data: 78

WELL-DESCRIPTION CARD

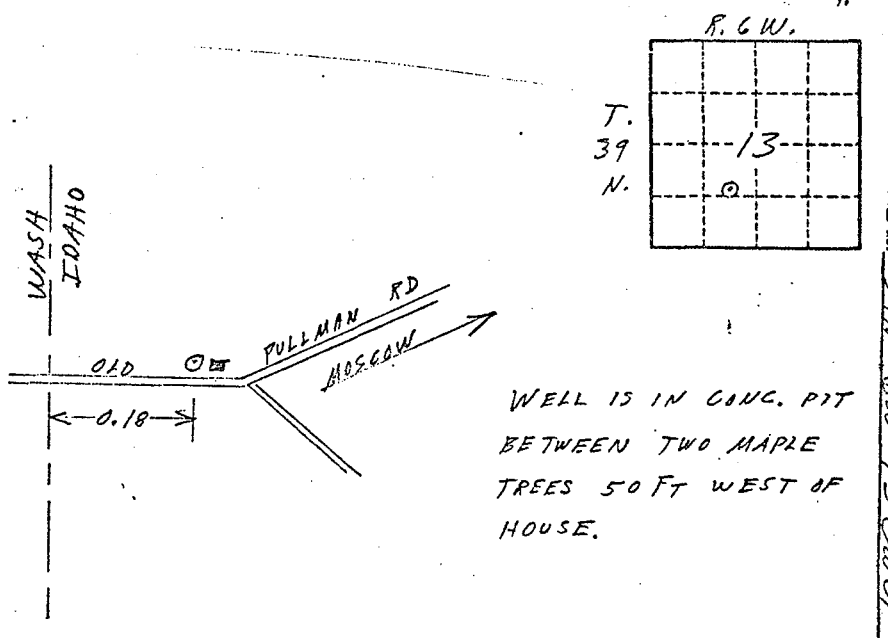
DEPTH WELL: 149 ft 149 Meas. 24 6
 Depth cased; (first perf.): 6 ft Casing type: P.I. Diam. 6 in 25
 Finish: porous gravel w. gravel w. horiz. open perf., screen, sd. pt., shored, open concrete, (perf.), (screen), gallery, end, other 31
 Method: (A) (B) (C) (D) (H) (J) (P) (R) (T) (V) (W) (X) (Y) (Z) 32
 Drilled: air bored, cable, dug, hyd jetted, air reverse trenching, driven, drive rot., percuss, rotary, other 33
 Date drilled: 34 Pump intake setting: 35
 Driller: 36
 Lift (type): (A) (B) (C) (J) multiple, (L) multiple, (M) nose, (P) piston, (R) submers, (S) turb, (T) other 39 Deep 40 Shallow 41
 Power (type): diesel, elec, gas, gasoline, hand, gas, wind, H.P. 42 Trans. of water no. 43
 Descrip. MP SOLE IN CSE SEAL 5.0 ft above/below LSD, Alt. MP 44
 Alt. LSD: 2750 Accuracy: 45 TOPO MAP C.I. 20' 46
 Water Level: 7.79 ft above MP; Ft below LSD 2 Accuracy: 47 ± 1/2 in 48
 Date tested: 7/7/72 Yield: 5 gpm 49 Method determined 50
 Drawdown: 51 ft Accuracy: 52 Pumping period 53 hrs 54
 QUALITY OF WATER DATA: Iron 55 Sulfate 56 Chloride 57 Hard. 58
 Sp. Conduct 59 K x 10⁶ Temp. 60 Date sampled 61
 Taste, color, etc. 62

39N-6W-13CWC1

Latitude-longitude 46.4309° 117.0208°

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: COLUM PLAT Section: WALLA WALLA
 PLAT A Drainage Basin: SO FR PALOUSE Subbasin: 34
 Topo of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp, (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) 37 H
 MAJOR AQUIFER: system 38 series 39 aquifer, formation, group 40 41
 Lithology: 42 Origin: 43 Aquifer Thickness: 44 ft
 Length of well open to: 45 ft Depth to top of: 46 ft
 MINOR AQUIFER: system 47 series 48 aquifer, formation, group 49 50
 Lithology: 51 Origin: 52 Aquifer Thickness: 53 ft
 Length of well open to: 54 ft Depth to top of: 55 ft
 Intervals Screened: 56
 Depth to consolidated rock: 57 ft Source of data: 58
 Depth to basement: 59 ft Source of data: 60
 Surficial materials: 61 Infiltration characteristics: 62
 Coefficient of storage: 63 Coefficient of permeability: 64
 Perm: 65 spd/ft; Spec cap: 66 gpm/ft; Number of geologic cards: 67



Level Note Sheet
(For filing with well record)

State Idaho County Latah Well No. 39N-6W-13CAC1

Prepared by Wardy Tribey Date leveled May 26, 1973

Survey party Tribey & Scott Agency pvt

Level book _____
(Name Number Page)

Control: Levelled from (USC&GS, USGS, IDPW, Other _____) BM No.

U348 (Line, Quad) No. 1 Ida. Date 1952

Leveling order (First, (Second), Third, Fourth) (Adj), Unadj., Preliminary)

datum of 1929, Pac. NW, Supp. Adj. of 1947, Supp. Adj. of

1960, Supp. Adj. of _____, Supp. Adj. of _____

Method determined: (Spirit), Transit, Alidade, Altimeter, Other _____)

Accuracy Order: (First, Second, (Third), Fourth, Other _____)

2752⁴ Land-surface datum. Date estab. May 26, 1973

2752³⁹ Land surface 18 feet West of well.

2753²⁵ Ref. Mark No. 1, S.W. Corner of
Concrete slab covering well
pit

Ref. Mark No. 2, _____

2747⁴² Meas. Point No. 1. Date estab. Top of

well cap seal.

Meas. Point No. 2. Date estab. _____

Meas. Point No. 3. Date estab. _____

3927	0.55	12.57	52.14
2983	0.44	10.06	31.07
2013	0.22	18.10	30.23
1145	1.05	9.60	21.05
4192	2.42	10.53	15.53
178	7.58	5.41	7.23
828	8.30	9.00	9.00
1412	6.57	2.56	16.58
2715	3.58	4.91	20.54
986	2.01	9.15	19.01
650	3.20	5.00	11.95
2700	1.88	18.22	18.30
2701	2.70	10.22	27.01

18	18.11	18.11	18.11
914	0.50	10.15	10.15
878	0.53	11.66	11.66
7016	0.27	10.72	10.72
5956	0.36	10.28	10.28
1787	0.55	12.64	12.64
4120	0.96	12.17	12.17
2588	2.53	12.12	12.12
2058	1.81	13.45	13.45
130	0.96	15.13	15.13
2600	4.23	26.10	26.10
2600	2.53	26.10	26.10
2600	9.36	26.10	26.10
2600	5.72	26.10	26.10
2600	5.72	26.10	26.10

BM U/I CE Dept # 66 north side of
 Road (old Pullman Hwy) west 150'
 from separator marked with Red
 weathered yellow witness Post. Near
 5' higher than Road # 100-150' west
 along road from TBM. No pins
 into or thru BM

TBM Top of Tower East Park Slipping

U/I 5th Station

Wind Gusting

Wind Gusting

(10232) 26
(4154) 27

137 50 14 27 22

10 02 30 24 29 87

10 22 10 22 20 21

9 60 21 07 11 27

10 52 15 52 10 06

5 42 7 40 7 20

1 41 9 66 8 25

5 51 16 50 14 07

2715 63 3 38 20 04 14 07

9 15 19 01 6 58

5 22 11 05 6 58

9 44 10 33 2760 87

1 10 2761 72

+ HT -

(1119) 16
(2546) 17

0 66 91 36

11 00 11 00 80 82

12 03 81 82 69 72

10 03 76 72 59 70

10 70 59 92 49 22

9 60 49 22 39 92

12 22 40 78 28 20

11 11 31 85 21 13

13 35 22 17 13 00

12 00 10 22 2597 62

1 52 1 52 2000 42

9 56 9 56 6 52

5 23 6 52 11 58

2055 65

202 W. J. Goshing (Vanc K)

Bm V of I 516 (No info avail)

TBM X set of loose part from logging

W. J. Goshing

W. J. Goshing

3 2

φ	+	HT	—
743	56 82	2 92	49 12
4 91	56 33	8 91	51 39
			2747 42
234 64		57 22	

AELV + 116 79
 2600 48 BM O BGS
 2747 42
 Hamburg Street

3 6

φ	+	HT	—
7 47	56 82	2 81	49 33
5 23	56 33	8 76	51 19
Top CGS seal		8 91	2747 42
SW Corner core slab		2 53	53 75
over Pit		3 91	52 38
Good 18' W of well			

234 16
 146 24 ✓

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

MASTER CARD

Record by CUC Source of data OB Date 7 Nov 72 Map Matcow West 7 1/2

State Idaho County Blaine (or town) Latah Sequential number: 517

Latitude: _____ Longitude: _____

Local well number: 317A 015W 119 012 Other number: _____

Local use: _____ Owner or name: Dexter Bailey Address: University of Idaho Matcow

Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist _____

Use of well: (C) Air cond, (D) Bottling, (E) Comm, (F) Dewater, (G) Power, (H) Fire, (I) Dom, (J) Irr, (K) Ind, (L) P S, (M) Rec, (N) Stock, (O) Instit, (P) Unused, (Q) Recharge, (R) Desal-P S, (S) Desal-other, (T) Other _____

Use of well: (A) Anode, (B) Drain, (C) Seismic, (D) Heat Res, (E) Obs, (F) Oil-gas, (G) Recharge, (H) Test, (I) Unused, (J) Withdraw, (K) Waste, (L) Destroyed _____

DATA AVAILABLE: Well data Freq. W/L meas.: Irregular Field aquifer char.

Hyd. lab. data: _____

Qual. water data: type: _____

Freq. sampling: _____ Pumpage inventory: yes no, period: _____

Aperture cards: _____

Log data: _____

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: _____ ft Meas. accuracy _____

Depth cased: _____ ft Casing type: _____ Diam. _____ in

Finish: (C) porous concrete, (D) gravel w. screen, (E) gravel w. gallery, (F) horiz. open end, (G) horz. perf., (H) screen, (I) ed. pt., (J) shored, (K) open hole, (L) other _____

Method: (A) air bored, (B) cable, (C) dug, (D) hyd jetted, (E) air rot., (F) percussive, (G) rotary, (H) reverse trenching, (I) driven, (J) drive wash, (K) other _____

Date Drilled: _____ Pump intake setting: _____ ft

Driller: Adcoet Air Drilling Lewis

Lift (type): (A) air, (B) bucket, (C) cent. jet, (D) multiple, (E) multiple, (F) none, (G) piston, (H) turb., (I) submers, (J) other _____ Deep Shallow

Power (type): (A) diesel, (B) elec, (C) gas, (D) gasoline, (E) hand, (F) gas, (G) wind, (H) H.P. _____ Trans. or meter no. _____

Descrip. MP 3/4-in hole in 5sq cup SW side 1.1 ft above LSD. Alt. MP _____

Alt. LSD: 254 Accuracy: _____

Water Level: _____ ft above MP; _____ ft below LSD Accuracy: _____

Date Meas: _____ Yield: _____ gpm Method determined _____

Drawdown: _____ ft Accuracy: _____ Pumping period: _____ hrs

QUALITY OF WATER DATA: Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm Hard. _____ ppm

Sp. Conduct _____ K x 10⁶ Temp. _____ °F Date sampled _____

Taste, color, etc. _____

WELL NO. 39N-5W-19a02

Latitude-longitude

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: _____ Section: _____

Drainage Basin: _____ Subbasin: _____

Top of well site: (D) depression, (E) stream channel, (F) dunes, (G) flat, (H) hilltop, (I) sink, (J) swamp, (K) offshore, (L) pediment, (M) hillside, (N) terrace, (O) undulating, (P) valley flat _____

MAJOR AQUIFER: _____ system _____ series _____ aquifer, formation, group _____

Lithology: _____ Origin: _____ Aquifer Thickness: _____

Length of well open to: _____ ft Depth to top of: _____ ft

MINOR AQUIFER: _____ system _____ series _____ aquifer, formation, group _____

Lithology: _____ Origin: _____ Aquifer Thickness: _____

Length of well open to: _____ ft Depth to top of: _____ ft

Intervals Screened: _____

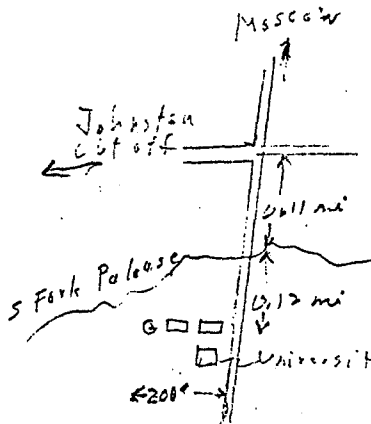
Depth to consolidated rock: _____ ft Source of data: _____

Depth to basement: _____ ft Source of data: _____

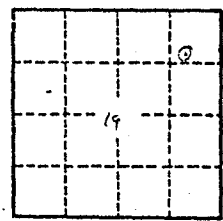
Surficial material: _____ Infiltration characteristics: _____

Coefficient Trans: _____ gpd/ft² Coefficient Storage: _____

Coefficient Perm: _____ gpd/ft²; Spac cap: _____ spm/ft; Number of geologic cards: _____



USGR
well is wrapped in rock wool and covered with a small wooden shelter

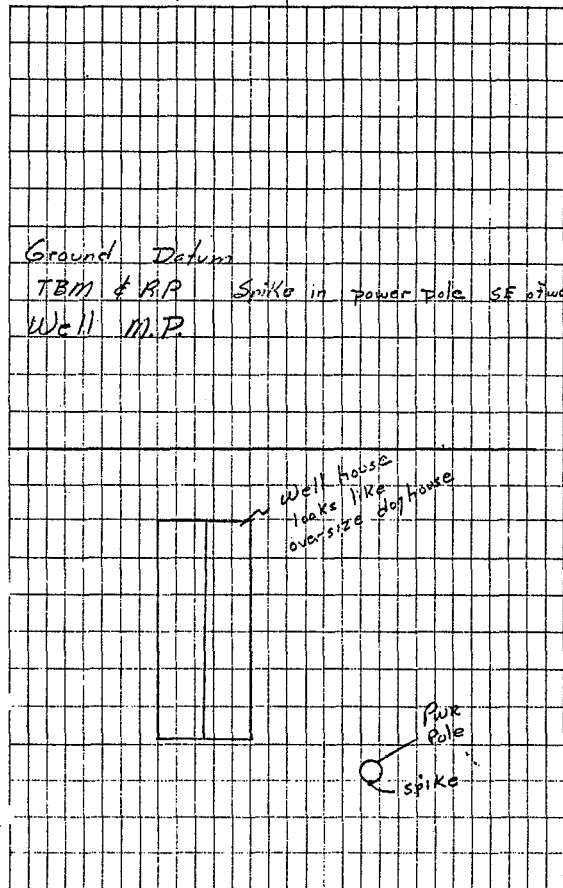


well is 0.20 mi S + 0.22 mi W of NE cor sec 19

WELL NO. 39N-5W-19a02

STA	+	HI	IFS	-	Elev
Bm X344					2552 ²
	5 ⁸⁵	58 ¹²			
				2 ²⁰	55 ⁹²
	5 ⁶⁹	61 ⁶¹			
				3 ⁹⁵	7 ⁶⁶
	3 ⁴⁷	61 ¹³			
			7 ¹⁴		53 ⁹⁹
			5 ²⁷		55 ⁸⁶
Top CS9 Seal				5 ⁹²	55 ²¹
	4 ³¹	59 ⁵²			
				1 ⁹⁰	57 ⁶²
	4 ³²	61 ⁹⁴			
				7 ²⁶	54 ⁶⁸
Bm	3 ⁶⁶	58 ³⁴			
				6 ⁰⁸	2552 ²¹

DIETZEN NO. 888-3



Form B-2 (6-1-72)

Level Note Sheet
(For filing with well record)

U.S.G.S.-WRD-Boise

State Idaho County Latah Well No. 39N-5W-19 sec 2

Prepared by Woody Trihey Date leveled May 1, 1973

Survey party Trihey & Associates Agency put

Level book (Name Number Page)

Control: Levelled from (USC&GS, USGS, IDPW, Other IGS) BM No.

X-344 (Line, Quad) No. 2 Airport spur Ida. Date Jan Aug '53

Leveling order (First, Second, Third, Fourth) (Adj., Unadj., Preliminary)

datum of 1929, Pac. NW, Supp. Adj. of 1947, Supp. Adj. of

1960, Supp. Adj. of _____, Supp. Adj. of _____

Method determined: (Spirit) Transit, Alidade, Altimeter, Other _____

Accuracy Order: (First, Second, Third, Fourth, Other _____)

2554 Land-surface datum. Date estab. May 1 1973

2553⁹⁹ Land surface 2 feet SW of well.

2555⁸⁶ Ref. Mark No. 1, Spike in South

side of power pole approx

15 ft SE of well.

Nothing convenient Ref. Mark No. 2, _____
and permanent

2555²¹ Meas. Point No. 1. Date estab. Top of

well CS9.

Meas. Point No. 2. Date estab. _____

Meas. Point No. 3. Date estab. _____

Form B-2 (6-1-72)

Level Note Sheet
(For filing with well record)

U.S.G.S.-WRD-Boise

State Idaho County Latah Well No. 39N-SW-19baa1

Prepared by Woody Trihey Date leveled May 30, 1973

Survey party Marks & Scott Agency pit

Level book (Name) _____ Number _____ Page _____

Control: Leveled from (USC&GS, USGS, IDPW, Other IGS) BM No. X-344 (Line, Quad) No. 2 Airport spur Ida. Date _____

Leveling order (First, Second, Third, Fourth) (Adj), Unadj., Preliminary

datum of 1929, Pac. NW, Supp. Adj. of 1947, Supp. Adj. of 1960, Supp. Adj. of _____

Method determined: (Spirit), Transit, Alidade, Altimeter, Other _____
Accuracy Order: (First, Second, Third, Fourth, Other _____)

2585 2 Land-surface datum. Date estab. May 30, 1973

2585 23 Land surface 1 feet W of well.

2579 30 Ref. Mark No. 1, Foundation of House
50' S of well

Ref. Mark No. 2, _____

2585 98 Meas. Point No. 1. Date estab. Top of well
csq seal.

Meas. Point No. 2. Date estab. _____

Meas. Point No. 3. Date estab. _____

9-1642C
eg. 683

WELL SCHEDULE
DEPT. OF THE INTERIOR GEOLOGICAL SURVEY WATER RESOURCES DIVISION

39N-SW-19baa1

WELL CARD
by V.P. DUN Source of data ABS-FIES Date 6/26/73 No. Moscow WEST
County LATAH Section 57
Twp 19 Range 42 Sec 19 NE NE NW SE
Well No. 39N-SW-19baa1 Other number: SHOW
Owner or name: C.L. NIELSEN Address: Moscow, ID
County, Fed Gov't, City, Corp of Co., Private, State Agency, Water Dist: _____
of Air cond, bottling, Comm, Devator, Power, Fire, Bus, Irr, Ind, P, S, Rec, _____
Stock, Instat, Unused, Repressure, Recharge, Desal-P S, Desal-other, Other: _____
of (A) (D) (O) (W) (B) (P) (R) (T) (U) (V) (X) (Y) (Z) _____
of (A) (D) (O) (W) (B) (P) (R) (T) (U) (V) (X) (Y) (Z) _____
A AVAILABLE: Well data Feas. W/L meas.: LOPEP Field aquifer char.
Lab. data: _____
Water data: YES
Sampling: _____ Pumpage inventory: yes no: period
Structure cards: _____

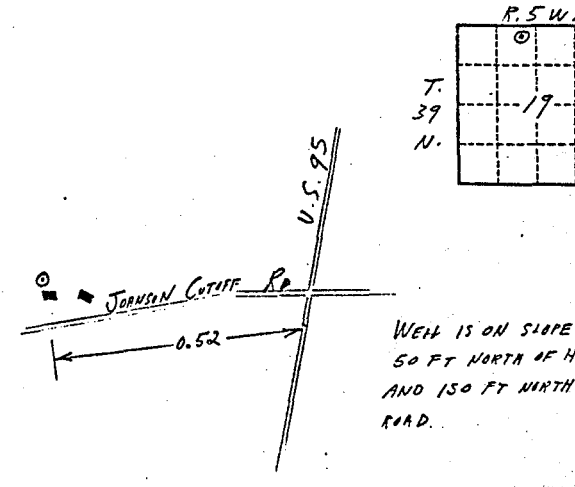
WELL-DESCRIPTION CARD
SAME AS ON MASTER CARD Depth well: 134 ft Meas. 1:31:9 accuracy 1/2
Depth casing: 57 ft Casing type: P.T. Dim. 6 in. 6
Casing: porous gravel w. gravel w. horiz. open part., screen, sd. pt., shroud, open concrete, (per.) (screen), galley, and, other _____
Method (A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) _____
Filled: air bore, cable, hyd jacked, air reverse trenching, driven, drive rot., percussion, rotary, other _____
Date filled: 1964 9:16:4 Pump intake setting: _____
Well: A.E. SPOFF Address: Moscow, ID
Use (A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) _____
Count (Type): diesel, elec, gas, gasoline, hand, gas, wind, H.P. _____
Descript. WELL IN CSQ SEAL 0.5 ft above 150 ft. Alt. MP
Alt. LED: 2575 Accuracy: Top of well C.T. 20'
Water level: 2215 ft above MP; Ft below LED 153 Accuracy: TAPE
Date 6/12/73 2:21 Yield: _____
Drawdown: _____ Pumping period: _____
QUALITY OF WATER DATA: Iron _____ Sulfate _____ Chloride _____ Hard. _____
Sp. Conduct _____ X x 10⁴ _____ Temp. _____ Date sampled _____
Taste, color, etc. Flat - air Fe - 2nd hand

Well No. _____

39N-SW-19baa1

Latitude-longitude 46 42 54 117 00

HYDROGEOLOGIC CARD
SAME AS ON MASTER CARD Physiographic Province: COLUM PLAT Section: WALLA W
PLAT A Basins: S.F. PLAIN Subbasin: _____
Top of depression, stream channel, dunes, flat, hilltop, sink, swamp, _____
Well site: _____
offshore, padiment, hillside, terrace, undulating, valley flat _____
MAJOR AQUIFER: _____ system _____ series _____ aquifer, formation, group _____
Lithology: _____ Origin: _____ Thickness: _____
Length of well open to: 76 ft Depth to top of: 76 ft
MINOR AQUIFER: _____ system _____ series _____ aquifer, formation, group _____
Lithology: _____ Origin: _____ Thickness: _____
Length of well open to: _____ ft Depth to top of: _____ ft
Interval Screened: 6" CSQ 0-58"
Depth to consolidated rock: _____ ft Source of data: _____
Depth to basement: _____ ft Source of data: _____
Surficial material: _____ Infiltration Characteristics: _____
Coefficient of storage: _____
Coefficient of transmissibility: _____
Coefficient of permeability: _____
Specific capacity: _____
Number of geologic cards: _____



FORM 8-1642C
(Dec. 68)

Well No.

WELL SCHEDULE
GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

U. S. DEPT. OF THE INTERIOR

40N-5W-33b d w 1

MASTER CARD

Record by U.P. DIAM Source of data OBS Date 6/28/72 Map ROBINSON LAKE

State IDAHO TIG County (or town) LATAH Sectional number 57

Latitude: 41° 41' 00" N Longitude: 117° 05' 00" W

Lat-long accuracy: 7 40' S. 5' Sec. 33, NE 1/4, SE 1/4, NW 1/4, BOISE

Local well number: 41011, 01511, 313, 18, 0, 1, 1 Other number:

Local use: A. F. KOSTER Owner or name: A. F. KOSTER Address: MOSCOW, ID

Ownership: County, Fed Gov't, City, Corp of Co, Private, State Agency, Water Dist

Use of: Air cond, Bottling, Comb, Demeter, Power, Fire, Dom, Irr, Md, Ind, P S, Res, WARE

Use of: Stock, Instnt, Unused, Repressure, Recharge, Desal-P S, Desal-other, Other

Well: Anoda, Drain, Seismic, Heat Ex, Ose, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed

DATA AVAILABLE: Well data Freq. W/L meas.: TAPED Field aquifer char.

Hyd. lab. data:

Qual. water data: type:

Freq. sampling: Pumping inventory: no. period:

Aperture cards: yes

Log data:

WELL-DESCRIPTION CARD

Same as on Master Card Depth well: 193.1 ft. 193.3 ft. SCUMBED

Depth cases: (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100) (101) (102) (103) (104) (105) (106) (107) (108) (109) (110) (111) (112) (113) (114) (115) (116) (117) (118) (119) (120) (121) (122) (123) (124) (125) (126) (127) (128) (129) (130) (131) (132) (133) (134) (135) (136) (137) (138) (139) (140) (141) (142) (143) (144) (145) (146) (147) (148) (149) (150) (151) (152) (153) (154) (155) (156) (157) (158) (159) (160) (161) (162) (163) (164) (165) (166) (167) (168) (169) (170) (171) (172) (173) (174) (175) (176) (177) (178) (179) (180) (181) (182) 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Driller: TOP OF 6" CSG 2.5 ft above station. Alt. HP

Alt. LSP: 26.70 ft above where LSP 26.70 Accuracy: Tape 20'

Water level: 166.90 ft above where LSP 166.90 Accuracy: Tape

Date: 6/28/72 Yield: 6.7 Method determined

Drawdown: 0 ft Accuracy: 0 Pumping period: 0 hrs

QUALITY OF WATER DATA: Iron ppm 0 Sulfate ppm 0 Chloride ppm 0 Hard ppm 0

Sp. Conduct: 0 K x 10³ Temp. 0 Date sampled

Tests, color, etc.

No longer used!

Well No.

40N-5W-33b d w 1

Latitude-Longitude 46.46.06 N 116.58.11 W

HYDROGEOLOGIC CARD

Same as on Master Card Physiographic Province: COLUM PLAT Section: WALLA WALL

Basin: PRAT Subbasin: SO FR PALOUSE

Tone of depression, stream channel, dunes, flat, hilltop, sink, swamp, well site, offshore, pediment, hillslope, terrace, undulating, valley flat

MAJOR AQUIFER: system 0 series 0 aquifer, formation, group 0 Aquifer Thickness: 0 ft

Lithology: 0 Origin: 0 Depth to top of: 0 ft

MINOR AQUIFER: system 0 series 0 aquifer, formation, group 0 Aquifer Thickness: 0 ft

Lithology: 0 Origin: 0 Depth to top of: 0 ft

Intervals Screened: 0

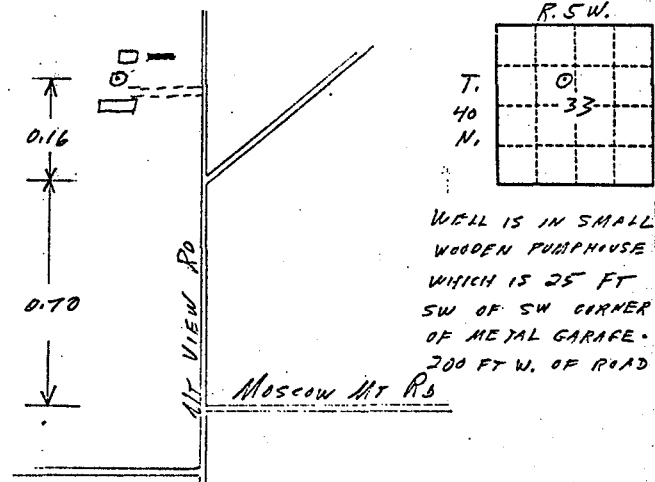
Reach to consolidated rock: 0 ft Source of data: 0

Reach to basement: 0 ft Source of data: 0

Surficial material: 0 Infiltration characteristics: 0

Coefficient of permeability: 0 sp4/ft 0 Coefficient of storage: 0

Coefficient of transmissibility: 0 sp4/ft² 0 Spec. cap: 0 spm/ft: 0 Number of geologic cards: 0



ϕ	+	HI	-	IFS
10m	879	254322		
			573	253749
	1029	254824		
			057	254767
	1270	256039		
			286	255753
	1102	256855		
			072	256783
	1132	257430		
			163	257747
	1020	258782		
			189	258598
			264	258523
			852	257930

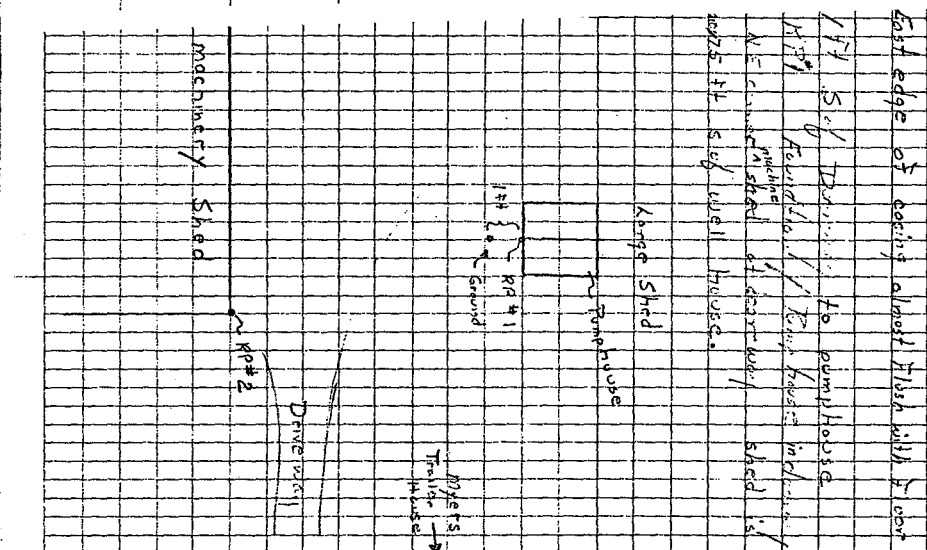
12

ϕ	+	HI	-	IFS
	879	254322		
			592	253728
	1018	254824		
			071	254753
	1283	256038		
			284	255754
	1100	256854		
			133	256721
	1245	257429		
			125	257804
	981	258785		
			182	258594
			264	258521
			852	257932

16

TOM BRIDGE	253728
ALB 28P	
CHAD	
WINDBLOWN BY HOUSE	501527

φ	+	HT	-	ITS	
Well	6 28	67 91			2661 03
End				4 24	63 47
				3 62	64 24
				4 25	63 46
			6 62		61 29
	0 58	61 24			
			8 24		53 00
	1 42	54 44			
			7 25		46 69
	3 26	50 65			
			5 22		44 23
	2 21	46 51			
			8 02		38 72
	5 20	42 47			
			1 21		40 96
	9 40	50 56			
			0 27		50 22
	9 24	59 09			
			1 36		57 73
	5 20	61 53			
			4 26		56 52
	2 11	58 93			
			11 22		47 64



φ	+	HT	-	ITS
	0 51	48 15		
B.M. W350	5 22	49 30		
				43 51
				2645 45

16

BM	+	HI	-	10007
W350				2661.02
	6.84	67.90	7.08	60.90
	0.44	61.34	8.62	52.72
	1.93	54.65	8.92	46.63
	4.11	50.46	5.82	44.84
	1.82	46.83	8.05	38.72
	3.20	42.20	1.80	40.80
	9.28	50.58	0.48	50.10
	9.20	59.10	1.27	57.73
	3.80	61.53	4.20	56.83
	2.10	58.93	11.23	47.20
	0.45	48.15	4.62	43.53
	5.72	49.30	3.65	2645.65

39N-5W-1966b1

Latitude-Longitude 46, 42.52, 117, 01, 12

MASTER CARD

Record by: H.P. DION Source of data: OBS-FILES Date: 6/26/72 Map: MOSCOW WEST State: IDAHO County: LATAH Latitude: 42 52 N Longitude: 117 01 W Sequential number: 1 Local well number: 215 W 19 R R 31 Local use: CLARENCE ANDERSON Owner or name: CLARENCE ANDERSON Address: MOSCOW, ID Ownership: Private Use of water: Irrigation Use of well: Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed DATA AVAILABLE: Well data, Freq. W/L meas.: IRREG Field aquifer char. Evid. lab. data: Qual. water data: types: Freq. sampling: Pumpage inventory: Aperture cards: Log data:

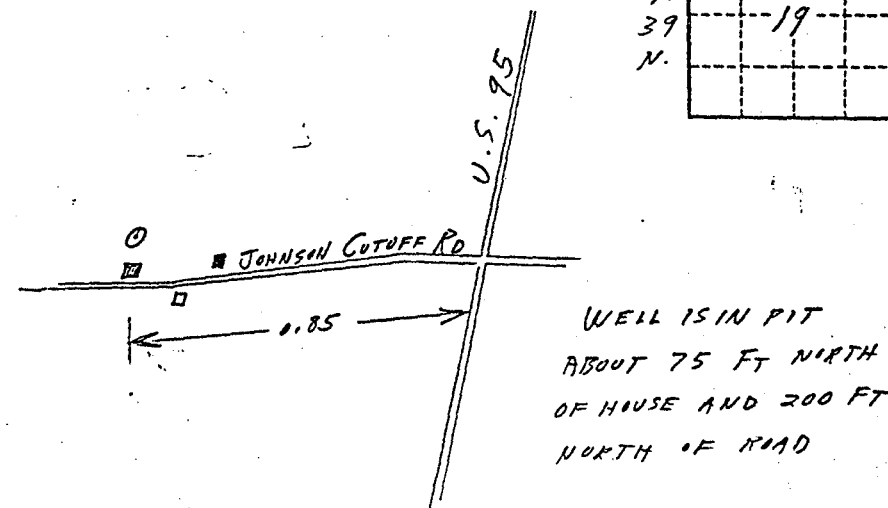
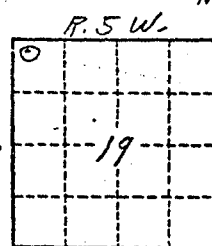
HYDROGEOLOGIC CARD

PHYSIOGRAPHIC PROVINCE: COUM PLAT Drainage Basin: SO Fk PALOUSE Subbasin: 210 Section: WAILA WAILA MAJOR AQUIFER: Length of well open to: 123 ft Depth to top of: 123 ft MINOR AQUIFER: Length of well open to: Depth to top of: Intervals Screened: 6" CGS 0-7' Depth to consolidated rock: Source of data: Depth to basement: Source of data: Surficial material: Infiltration characteristics: Coefficient of storage: Coefficient of permeability: Spm: Spec cap: Number of geologic cards:

WELL-DESCRIPTION CARD

Depth well: 130 ft Meas. accuracy: 1/30 ft Depth cased: 7 ft Casing type: B.I. Diam. 6 in Finish: porous gravel v. concrete, (part.) Method: air bored, cable, dug, hyd jetted, rot., percussion, rotary, wash, other Date drilled: Pump intake setting: Driller: Lift: (type): air, bucket, cent, jet, multiple, (cent.) Power: diesel, elec, gas, gasoline, hand, gas, wind, H.I. Descrip. MP: HOLE IN CGS SEAL 4.0 ft below LSD, Alt. MP: 2552 Accuracy: TAPE Water level: 21.77 ft above LSD Accuracy: TAPE Date meas: 6/26/72 Yield: Method determined: Drawdown: Pumping period: QUALITY OF WATER DATA: Iron, Sulfate, Chloride, Hard. Sp. Conduct: K x 10 Temp. Taste, color, etc.: Good

Jacuzzi sub.



WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

39N-GW-24 ccd1

MASTER CARD

Record by V.P. DIAN Source of data DBS-LOG Date 6/29/72 Map MOSCOW WEST

State TRND County 16 (or town) LATAH Sequential number: 57

Latitude: 46 42 04 N Longitude: 117 02 19 W

Local well number: 39N-GW-24 CCD1 Other number: _____

Local use: _____ Owner or name: CHET CANODE Address: MOSCOW, ID

Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist P

Use of well: Air cond., Bottling, Comm. Dewater, Power, Fire, Irr., Med, Ind, P S, Rec, Stock, Inactit, Unused, Reprassure, Recharge, Desal-P S, Desal-other, Other H

Use of well: Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed W

DATA AVAILABLE: Well data Freq. W/L meas.: IRREG Field aquifer char.

Evd. lab. data: _____

Qual. water data: type: _____

Freq. sampling: _____ Pumpage inventory: yes no period: _____

Aperture cards: _____

Log date: DRILLER'S

WELL-DESCRIPTION CARD

SAVE AS ON MASTER CARD Depth well: 232 ft. Accuracy: 3

Depth cased: 26 1/2 ft. Casing type: B.I.T. Diam. 6 in.

Finish: porous concrete, (perf.), (screen), gallery, end, other X

Method drilled: air bored, cable, dug, hyd jetted, air percuss, rotary, other A

Date drilled: 12/17/69 Pump intake setting: _____ ft.

Driller: RUBIN & WITT, LEWISTON, IDAHO

Life (type): air, bucket, cont, jet, (cent.), multiple, (cent.), (curb.), nose, piston, rot, submerg, turb, other S Deep Shallow

Power (type): diesel, elec, gas, gasoline, hand, gas, wind, H.P. 5 Trans. or meter no. _____

Descrip. MP: HOE IN GGG SEAL 1.1 ft above/below MSD, Alt. MP _____

Alt. LSD: 2530 Accuracy: TOPO MAP C.I. 20'

Water Level: 7.92 ft above/below MP; Ft. below LSD 9 Accuracy: TAPE

Data meas: 6/29/72 Yield: 10 gpm Method determined _____

Drawdown: _____ ft Accuracy: _____ Pumping period: _____ hrs

QUALITY OF WATER DATA: Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm Hard. _____ ppm

Sp. Conduct K x 10⁶ Temp. _____ °F Date sampled _____

Taste, color, etc. NO FE

39N-GW-24 ccd1

Latitude-Longitude 46 42 04 N 117 02 19 W

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: COLUM PLAT Section: WALLA WALLA

PLAT A Drainage Basin: S F K PALOUSE Subbasin: _____

Topo of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp, (E) offshore, pediment, hillside, terrace, (F) undulating, valley flat U

MAJOR AQUIFER: system _____ series _____ aquifer, formation, group _____

Lithology: _____ Origin: _____ Aquifer Thickness: _____ ft

Length of well open to: 206 ft Depth to top of: _____ ft

MINOR AQUIFER: system _____ series _____ aquifer, formation, group _____

Lithology: _____ Origin: _____ Aquifer Thickness: _____ ft

Length of well open to: _____ ft Depth to top of: _____ ft

Intervals Screened: 6" CSG 0-26'

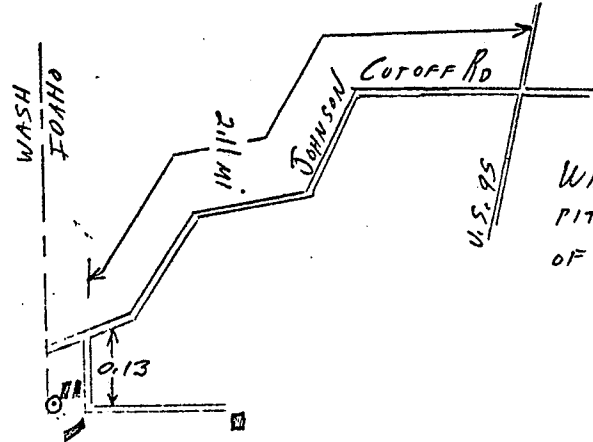
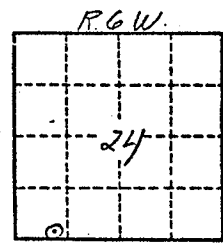
Depth to consolidated rock: _____ ft Source of data: _____

Depth to basement: _____ ft Source of data: _____

Surficial material: _____ Infiltration characteristics: _____

Coefficient Trans: _____ gpd/ft² Coefficient Storage: _____

Coefficient Perm: _____ gpd/ft²; Spec cap: _____ gpm/ft; Number of geologic cards: _____



WELL IS IN SHALLOW PIT 300 FT WEST OF ROAD.

WELL NO. 39N-GW-24 CCD1

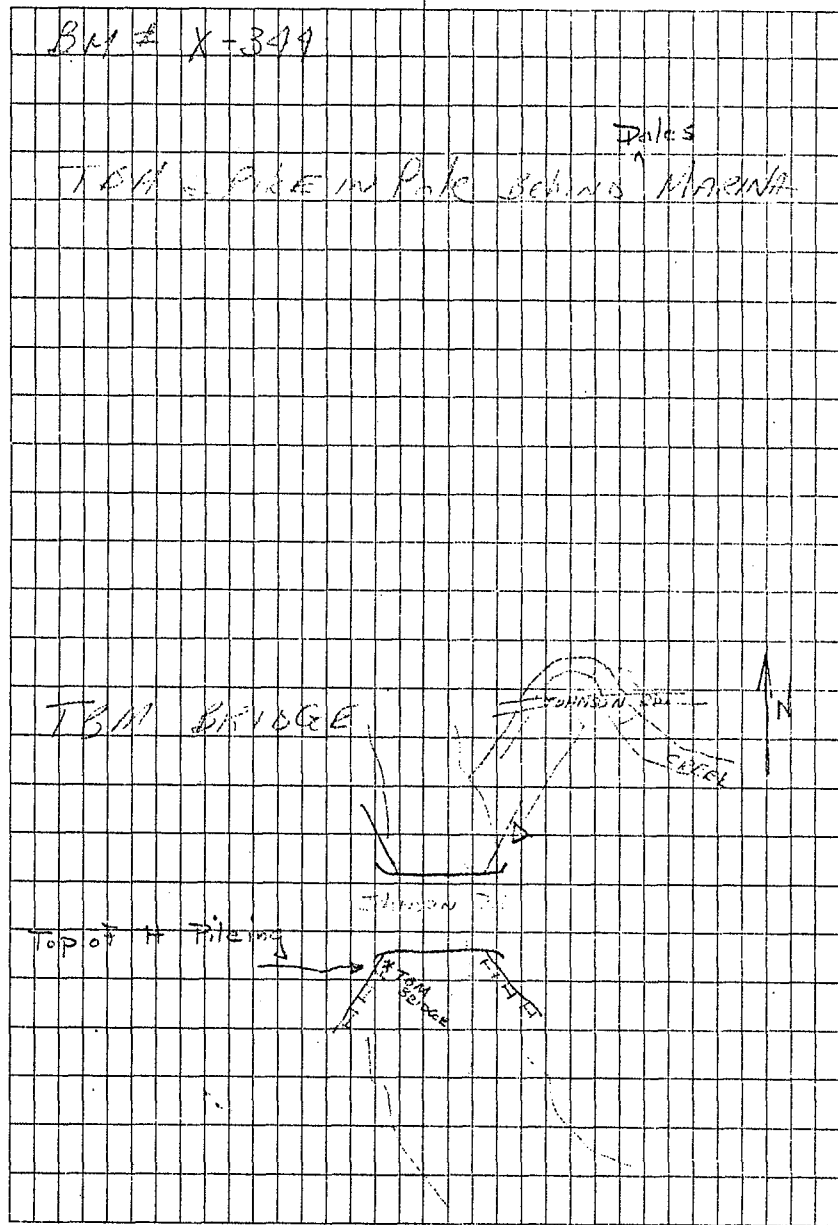
WELL NO. 39N-GW-24 CCD1

Level Note Sheet
(For filing with well record)State Idaho County Latah Well No. 39N-6W-24cd1Prepared by Woody Trihey Date leveled May 29, 1973Survey party Marks & Scott Agency pvt.Level book _____
(Name _____ Number _____ Page)Control: Levelled from (USC&GS, USGS, IDPW, Other IGS.) BM No.X-344 (Line, Quad) No. 2 Airport Spur Ida. Date _____Leveling order (First, Second, Third, Fourth) (Adj., Unadj., Preliminary)datum of 1929, Pac. NW, Supp. Adj. of 1947, Supp. Adj. of1960, Supp. Adj. of _____, Supp. Adj. of _____Method determined: (Spirit, Transit, Alidade, Altimeter, Other _____)Accuracy Order: (First, Second, Third, Fourth, Other _____)2519⁹ Land-surface datum. Date estab. May 29, 19732519⁹² Land surface 2 feet E of well.2520⁴¹ Ref. Mark No. 1, Top of curb at NW
End of conc sidewalk2520⁵⁸ Ref. Mark No. 2, Garage floor
East end of large door2519⁰⁷ Meas. Point No. 1. Date estab. Top of
csq seal.

Meas. Point No. 2. Date estab. _____

Meas. Point No. 3. Date estab. _____

ϕ	+	HI	-	IFS
BM X-344	761	2559 ⁸⁸		2552 ²⁷
	137		316	2556 ⁷²
	* 0 ⁰⁰	2558 ⁰²		
			2 ²⁸	2555 ³¹
			12 ⁸¹	2545 ²⁸
	3 ⁰⁸	2548 ³⁶		
			7 ⁵⁹	2540 ⁸²
	3 ⁸²	2544 ⁶⁹		
			4 ⁸⁷	2539 ⁷⁷
	4 ³⁶	2544 ¹³		
			9 ⁵³	2534 ⁶⁰
	1 ²¹ 1 ²⁰	2538 ⁸⁰		
			5 ⁹⁵	2532 ⁸⁵
	4 ²⁶	2537 ¹¹		
			2 ²⁰	2534 ⁹¹
	4 ⁷⁰	2539 ⁶¹		
	1 ⁰⁰ 0 ⁹⁹	2530 ²⁵	10 ³⁵	2529 ²⁶
			5 ²¹	2525 ⁶⁴
	4 ²⁶	2529 ³⁰		
			5 ⁹⁷	2523 ³³
	4 ⁶⁷	2528 ⁰⁰		
			6 ⁴²	2521 ⁵⁸
	4 ²⁰	2525 ⁸⁸		
			5 ⁹¹	2519 ⁹⁷
	6 ²⁶	2526 ²³		
1 ²			3 ⁹⁸ 3 ⁹⁷	2522 ²⁴



TBM Power Pole near cutoff Road @ 2521

ϕ	+	H I	-	I F S
	122	2523 59		
	524	2525 14	3 64	2519 90
	655	2526 91	4 78	2520 32
	024	2517 20	1 0 10	2516 81
	393	2517 48	4 14	2513 56
	804	2529 71	0 22	2516 67
			4 30	2520 41
			4 13	2520 58
			5 44	2519 02
			4 78	2519 92

23

TBM	Point	Point	2522 82
<p>TOP OF ROAD AT NE END OF INTERSECTION DENVER ROAD AT FIELD OFFICE DRILL TOP GRADE OF WELL PIT</p>			

	+	H I	-	I + S
TBM	1 22	252354		
			358	251996
	512	252513		
			483	252039
	6 60	252690		
			10 40	251659
	1 20	251720		
			4 02	251368
	3 81	251749		
			1 50	251599
	8 12	252421	1 30	
			4 13	252041
			5 49	252058
			4 78	251907
				251992

26

TBM	2522 20
TOP OF CURB AT END OF DRIVEWAY	
ELEVATION AT END OF CURB	
2519 07	
ELEVATION OF IRON PIT	
2519 92	

FD-202 (Rev. 5-22-64)

U. S. DEPT. OF THE INTERIOR GEOLOGICAL SURVEY WATER RESOURCES DIVISION
40N-5W-3200B1

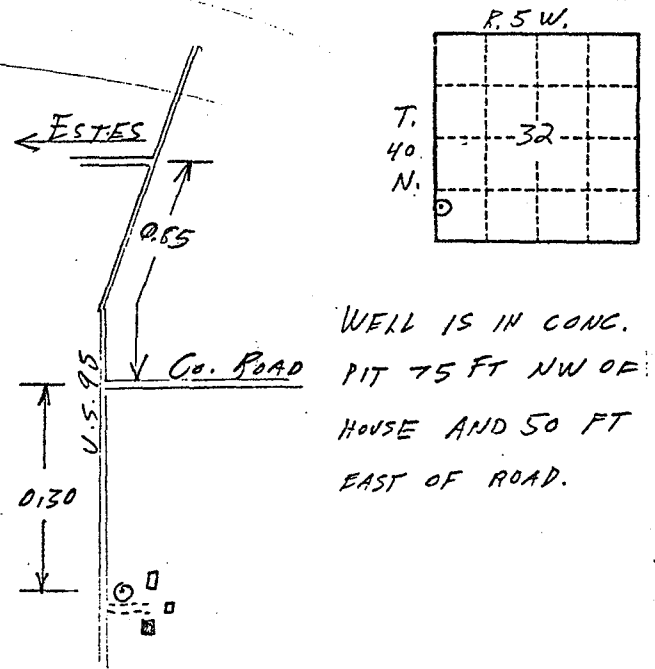
Latitude-Longitude 46.45.42 N 117.00.02

MASTER CARD
Record by N.P. Dinn Source of data OBS FILES Date 6/28/72 Map VIOLA
State IDAHO County LATAH
Latitude: 46 45 42 N Longitude: 117 00 02 W
Local well number: 40N 5W 3200B1
Owner or name: C.A. HEICK Address: MOSCOW, ID
Ownership: Private P
Use of Well: Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed W
DATA AVAILABLE: Well data, Freq. W/L meas.: IRREG, Field aquifer char.

WELL-DESCRIPTION CARD
Depth well: 259 ft
Casing type: 6 in
Finish: concrete, (parf.), (screen), gallery, end
Method: air bored, cable, dug, hyd jetted, air reverse, driven, drive wash
Date drilled: 6/28/72
Driller: WOODWARD
Lift: Deep
Power: diesel, elec, gas, gasoline, hand, gas, wind, H.P.
Descrip. HP: HOLE IN PLATE CREEK 5.2 ft above/below LSD, Alt. HP
Alt. LSD: 2720 Accuracy: TOPO MAP C.T. 20'
Water level: 211.60 ft above/below MP; Ft below LSD: 2117 Accuracy: TAPE
Date meas: 6/28/72 Yield: 6.72 gpm
Drawdown: ft Accuracy: Pumping period: hrs
QUALITY OF WATER DATA: Iron, Sulfate, Chloride, Hard, Sp. Conduct, Temp, Date sampled
Taste, color, etc.

HYDROGEOLOGIC CARD
SAME AS ON MASTER CARD Physiographic Province: COLUM PLAT Section: WALLA WALLA
Drainage basin: SOFR PALOUSE Subbasin: 7.6.6
Top of well site: depression, stream channel, dunes, flat, hilltop, sink, swamp, offshore, pediment, hillside, terrace, undulating, valley flat
MAJOR AQUIFER: system, series, aquifer, formation, group
Lithology: Origin: Aquifer Thickness: ft
Length of well open to: ft Depth to top of: ft
MINOR AQUIFER: system, series, aquifer, formation, group
Lithology: Origin: Aquifer Thickness: ft
Length of well open to: ft Depth to top of: ft
Intervals Screened:
Depth to consolidated rock: ft Source of data:
Depth to basement: ft Source of data:
Surficial material: Infiltration characteristics:
Coefficient of storage: gpd/ft Coefficient of storage:
Coefficient of storage: gpd/ft; Spac cap: gpm/ft; Number of geologic cards:

WELL NO. 40N-5W-3200B1



WELL NO. 40N-5W-3200B1

State Idaho County Latah Well No. 40N-5W-32cc61
 Prepared by Woody Trihey Date leveled April 29 1973
 Survey party Trihey & Associates Agency Private

Level book (Name _____ Number _____ Page _____)

Control: Levelled from (USC&GS, USGS, IDPW, Other IGS) BM No. B 3488 (Line, Quad) No. 2 Ida. Date Jun Aug 1953
 Leveling order (First, Second, Third, Fourth) (Adj., Unadj., Preliminary)
 datum of 1929, Pac. NW, Supp. Adj. of 1947, Supp. Adj. of 1960, Supp. Adj. of _____, Supp. Adj. of _____

Method determined (Spirit, Transit, Alidade, Altimeter, Other _____)
 Accuracy Order: (First, Second, Third, Fourth, Other _____)

2717⁰⁴ Land-surface datum. Date estab. April 29, 1973
2717⁰⁴ Land surface 15 feet North of well.
2712⁰⁵ Ref. Mark No. 1, SE corner of concrete pedestal around well casing

2711⁰⁵ Ref. Mark No. 2, Conc Floor of well pit about center of and immediate along S side of pedestal
2712¹⁰ Meas. Point No. 1. Date estab. Top of conc seal

Meas. Point No. 2. Date estab. _____

Meas. Point No. 3. Date estab. _____

	+	HI	-	FI
BM				2680 ²⁶
	6 ⁰¹	86 ²³	9 ⁹¹	76 ⁰²
	9 ²²	86 ⁰⁴	0 ⁰²	85 ¹²
	6 ⁴⁰	91 ⁵²	1 ²²	89 ⁰⁵
	12 ³⁵	2702 ²⁰	0 ⁹⁴	2701 ²⁶
	9 ⁵⁶	10 ⁰²	0 ⁰²	10 ⁰⁰
	11 ³⁶	21 ³⁶		
			9 ²⁵	2712 ¹⁰
			9 ³¹	2712 ⁰⁵
			10 ²⁸	2711 ⁰⁸
			4 ³²	2717 ⁰⁴
			11 ⁴⁰	09 ²⁶
	0 ⁰³	10 ⁷²	9 ⁷²	1 ⁰²
	1 ¹³	02 ¹⁵	12 ⁰¹	2690 ⁴
	1 ⁴⁵	91 ⁵⁹	6 ³⁹	85 ²⁰
	0 ⁹¹	86 ¹¹		

DIETZEN NO. 388-3

BM #	Description
BM # 3488	
RP #1	Top CS6 Seal
Ref #1	SE Conc. Pedestal around CS6
Ref #2	Conc Floor of pit @ S side of pedestal
	Gnd 15' N of well

WELL SCHEDULE
GEOLOGICAL SURVEY

U. S. DEPT. OF THE INTERIOR

WATER RESOURCES DIVISION

MASTER CARD

Record by N.P. DUNN Source of data URS-SITES Date 6/22/72 Map MOSCOW WEST
 State IND County LATAH City or town 5.7
 Latitude: 46° 44' 52" N Longitude: 117° 00' 29" W Sequential number: 1
 Local well number: 376 W 015 WA 06 DCA 1
 Local use: --- Owner or name: DICK HARDEN
 Address: MOSCOW, ID.
 Ownership: County, Fed Gov't, City, Corp of Co, Private, State Agency, Water Dist P
 Use of Air cond, Bottling, Comm, Devater, Power, Fire, Irr, Mad, Ind, P S, Rec, water: ---
 Use of well: Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw Waste, Destroyed W
 DATA AVAILABLE: Well data 70 Freq. W/L meas.: IRREG Field aquifer char. 71
 Evid. lab. data: ---
 Qual. water data: type: ---
 Freq. sampling: --- Pumpage inventory: ---
 Aperture cards: ---
 Log data: DRILLER'S

WELL-DESCRIPTION CARD

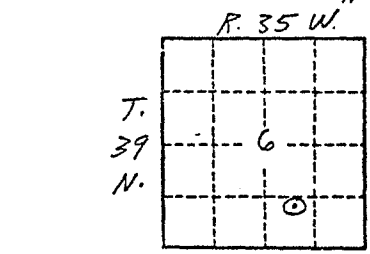
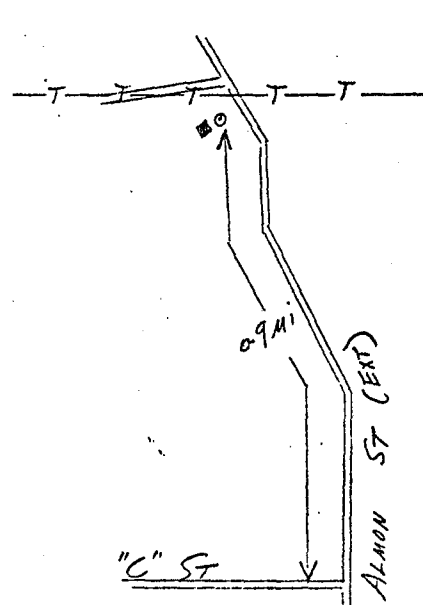
SAME AS ON MASTER CARD Depth well: 376 ft 376 Meas. accuracy 6
 Depth cased: 190 ft 190 Casing type: B.I. Diam. 8 in 8
 Finish: porous gravel y. concrete, (perfl.), (screen), galv. steel, other ---
 Method: air bored, cable, dug, hyd jetted, air rot., percussation, rotary, other ---
 Date Drilled: --- Pump intake setting: --- ft ---
 Driller: name --- address ---
 Lift (type): air, bucket, cent, jet, multiple, (cent.), nose, piston, rot, submerg, turb, other 5 Deep --- Shallow 40
 Power (type): diesel, elec, gas, gasoline, hand, gas, wind; E.P. --- Trans. of meter no. ---
 Descrip. MP HAIR IN CCG SEAL AT ft above below LSD. Alt. MP ---
 Alt. LSD: 2670 ft 2670 Accuracy: ---
 Water Level 178.91 ft below MP; Ft below LSD 179 Accuracy: TAPE
 Date meas: 6/23/72 Yield: --- gpm --- Method determined ---
 Drawdown: --- ft --- Accuracy: --- Pumping period --- hrs ---
 QUALITY OF WATER DATA: Iron ppm --- Sulfate ppm --- Chloride ppm --- Hard. ppm ---
 Sp. Conduct --- K x 10 --- Temp. --- Data Sampled ---
 Taste, color, etc. ---

39N-5W-6dcw1

Latitude-Longitude 46.44.52 @ 117.00.29

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: COLUM PLAT Section: WALLA WALLA
 PLAT: A Drainage Basin: SOFR PALOUSE Subbasin: ---
 Topo of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp, (E) offshore, pediment, hillside, terrace, undulating, valley flat 5
 MAJOR AQUIFER: system --- series --- aquifer, formation, group ---
 Lithology: --- Origin: --- Thickness: --- ft
 Length of well open to: 186 ft 186 Depth to top of: --- ft
 MINOR AQUIFER: system --- series --- aquifer, formation, group ---
 Lithology: --- Origin: --- Thickness: --- ft
 Length of well open to: --- ft --- Depth to top of: --- ft
 Intervals Screened: 8" case 0-190'
 Depth to consolidated rock: --- ft --- Source of data: ---
 Depth to basement: --- ft --- Source of data: ---
 Surficial material: --- Infiltration characteristics: ---
 Coefficient of storage: --- gpd/ft --- Coefficient of storage: ---
 Perm: --- gpd/ft; Spec cap: --- rpm/ft; Number of geologic cards: ---



WELL IS IN CIRCULAR CONC. PIT IN FRONT OF HOUSE AND ABOUT 100 FT SW OF HOME.

WELL SCHEDULE
GEOLOGICAL SURVEY

U. S. DEPT. OF THE INTERIOR

WATER RESOURCES DIVISION

MASTER CARD

39N-SW-6 db01

Record by *H.P. Dixon* Source of data *U OF I OBS-FILES* Date *6/22/72* Map *MOSCOW WEST*

State *INDIANA* County *LATAH* (or town) *LATAH* Section *57*

Latitude: *40° 44' 45.3" N* Longitude: *117° 02' 03.9" W* Sequential number: *1*

Local well number: *39N 05W 06 DB 01* Other number: *Bolan**

Local use: _____ Owner or name: *RE. HARDEN* Address: *MOSCOW, IN*

Ownership: County, Fed Gov't, City, Corp of Co, Private, State Agency, Water Dist P

Use of well: (A) Air cond, Bottling, Comm, Devaster, Power, Fire, Dod, Irr, Med, Ind, P, S, Rac, (H) (I) (M) (P) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) (AA) (BB) (CC) (DD) (EE) (FF) (GG) (HH) (II) (JJ) (KK) (LL) (MM) (NN) (OO) (PP) (QQ) (RR) (SS) (TT) (UU) (VV) (WW) (XX) (YY) (ZZ) (AAA) (BBB) (CCC) (DDD) (EEE) (FFF) (GGG) (HHH) (III) (JJJ) (KKK) (LLL) (MMM) (NNN) (OOO) (PPP) (QQQ) (RRR) (SSS) (TTT) (UUU) (VVV) (WWW) (XXX) (YYY) (ZZZ) (AAA) (BBB) (CCC) (DDD) (EEE) (FFF) (GGG) (HHH) (III) (JJJ) (KKK) (LLL) (MMM) (NNN) (OOO) (PPP) (QQQ) (RRR) (SSS) (TTT) (UUU) (VVV) (WWW) (XXX) (YYY) (ZZZ) (AAA) (BBB) (CCC) (DDD) (EEE) (FFF) (GGG) (HHH) (III) (JJJ) (KKK) (LLL) (MMM) (NNN) (OOO) (PPP) (QQQ) (RRR) (SSS) (TTT) (UUU) (VVV) (WWW) (XXX) (YYY) (ZZZ) (AAA) (BBB) (CCC) (DDD) (EEE) (FFF) (GGG) (HHH) (III) (JJJ) (KKK) (LLL) (MMM) (NNN) (OOO) (PPP) (QQQ) (RRR) (SSS) (TTT) (UUU) (VVV) (WWW) (XXX) (YYY) (ZZZ) (AAA) (BBB) (CCC) (DDD) (EEE) (FFF) (GGG) (HHH) (III) (JJJ) (KKK) (LLL) (MMM) (NNN) (OOO) (PPP) (QQQ) (RRR) (SSS) (TTT) (UUU) (VVV) (WWW) (XXX) (YYY) (ZZZ) (AAA) (BBB) (CCC) (DDD) (EEE) (FFF) (GGG) (HHH) (III) (JJJ) (KKK) (LLL) (MMM) (NNN) (OOO) (PPP) (QQQ) (RRR) (SSS) (TTT) (UUU) (VVV) (WWW) (XXX) (YYY) (ZZZ) (AAA) (BBB) (CCC) (DDD) (EEE) (FFF) (GGG) (HHH) (III) (JJJ) (KKK) (LLL) (MMM) (NNN) (OOO) (PPP) (QQQ) (RRR) (SSS) (TTT) (UUU) (VVV) (WWW) (XXX) (YYY) (ZZZ) (AAA) (BBB) (CCC) (DDD) (EEE) (FFF) (GGG) (HHH) (III) (JJJ) (KKK) (LLL) (MMM) (NNN) (OOO) (PPP) (QQQ) (RRR) (SSS) (TTT) (UUU) (VVV) (WWW) (XXX) (YYY) (ZZZ) (AAA) (BBB) (CCC) (DDD) (EEE) (FFF) (GGG) (HHH) (III) (JJJ) (KKK) (LLL) (MMM) (NNN) (OOO) (PPP) (QQQ) (RRR) (SSS) (TTT) (UUU) (VVV) (WWW) (XXX) (YYY) (ZZZ) (AAA) (BBB) (CCC) (DDD) (EEE) (FFF) (GGG) (HHH) (III) (JJJ) (KKK) (LLL) (MMM) (NNN) (OOO) (PPP) (QQQ) (RRR) (SSS) (TTT) (UUU) (VVV) (WWW) (XXX) (YYY) (ZZZ) (AAA) (BBB) (CCC) (DDD) (EEE) (FFF) (GGG) (HHH) (III) (JJJ) (KKK) (LLL) (MMM) (NNN) (OOO) (PPP) (QQQ) (RRR) (SSS) (TTT) (UUU) (VVV) (WWW) (XXX) (YYY) (ZZZ) 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(OOO) (PPP) (QQQ) (RRR) (SSS) (TTT) (UUU) (VVV) (WWW) (XXX) (YYY) (ZZZ) (AAA) (BBB) (CCC) (DDD) (EEE) (FFF) (GGG) (HHH) (III) (JJJ) (KKK) (LLL) (MMM) (

Level Note Sheet
(For filing with well record)State Idaho County Latah Well No. 39N-5W-6dca1Prepared by Woody Tribey Date leveled May 23, 1973Survey party Marks & Scott Agency prtLevel book _____
(Name Number Page)Control: Levelled from (USC&GS, USGS, IDPW, Other IGS .) BM No.B-3486 (Line) Quad No. 2 Ida. Date _____Leveling order (First, Second, Third, Fourth) (Adj), Unadj., Preliminary)datum of 1929, Pac. NW, Supp. Adj. of 1947, Supp. Adj. of1960, Supp. Adj. of _____, Supp. Adj. of _____Method determined: (Spirit) Transit, Alidade, Altimeter, Other _____)Accuracy Order: (First, Second, Third, Fourth, Other _____)2682⁰ Land-surface datum. Date estab. May 23, 19732682⁰² Land surface Along N side conc well pit of well.2682⁴⁶ Ref. Mark No. 1, East side conc well well pit with Conc cover removed.

Ref. Mark No. 2, _____

2680⁹⁷ Meas. Point No. 1. Date estab. Top of well csg seal.

Meas. Point No. 2. Date estab. _____

Meas. Point No. 3. Date estab. _____

Level Note Sheet
(For filing with well record)State Idaho County Latah Well No. 39N-5W-6dbclPrepared by Woody Tribey Date leveled May 23, 1973Survey party Marks & Scott Agency prtLevel book _____
(Name Number Page)Control: Levelled from (USC&GS, USGS, IDPW, Other IGS .) BM No.B-3486 (Line) Quad No. 2 Ida. Date _____Leveling order (First, Second, Third, Fourth) (Adj), Unadj., Preliminary)datum of 1929, Pac. NW, Supp. Adj. of 1947, Supp. Adj. of1960, Supp. Adj. of _____, Supp. Adj. of _____Method determined: (Spirit) Transit, Alidade, Altimeter, Other _____)Accuracy Order: (First, Second, Third, Fourth, Other _____)2630⁶ Land-surface datum. Date estab. May 23, 19732630⁶⁷ Land surface 4 feet N of well.2631⁵⁵ Ref. Mark No. 1, NE corner of Conc. Well pit (top of wall)

Ref. Mark No. 2, _____

2625⁸³ Meas. Point No. 1. Date estab. Top of well csg seal.

Meas. Point No. 2. Date estab. _____

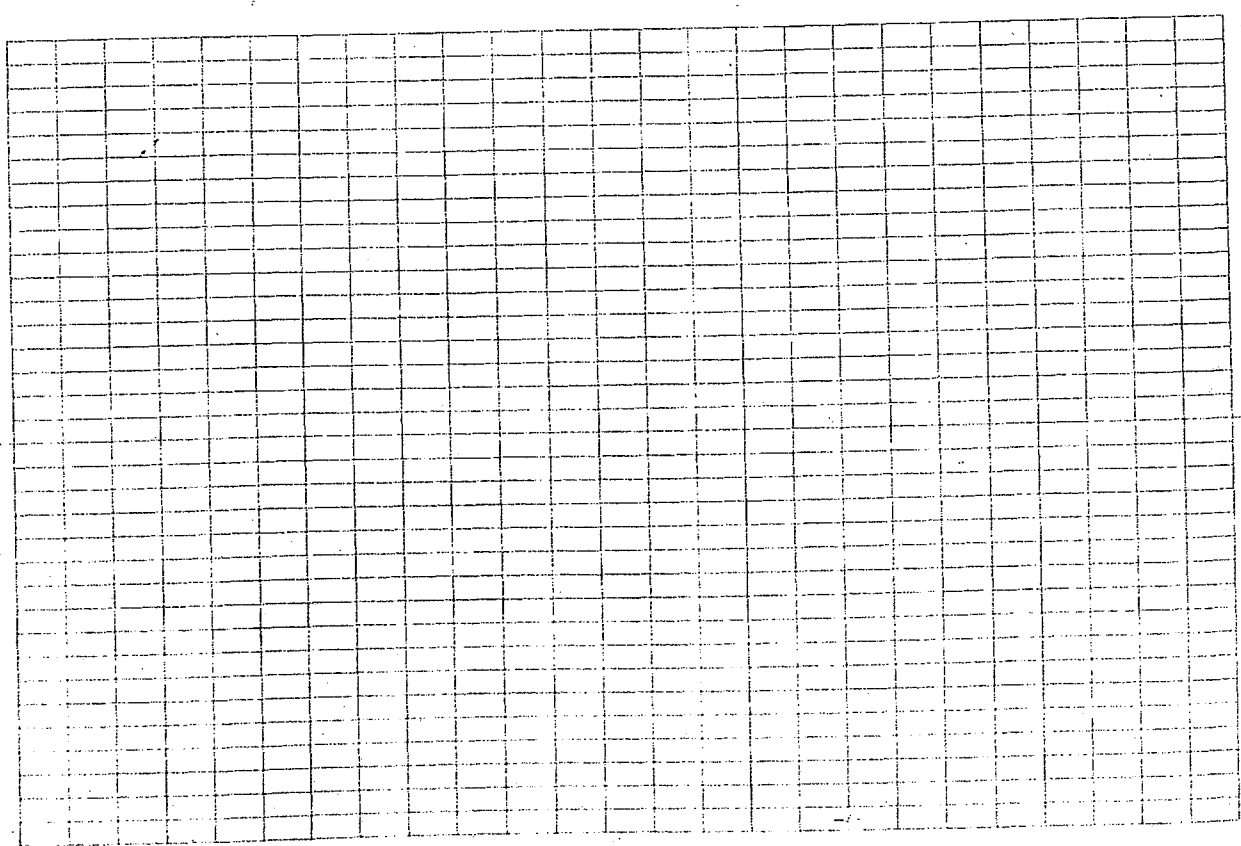
Meas. Point No. 3. Date estab. _____

	+	HI	-	IFS	Elev
	2 87	36 51			
				10 51	2625 83
				4 29	2631 55
				5 22	2630 57
			0 36		
	6 85	42 83			
			0 67		42 16
	12 23	54 39			
			0 65		53 24
	11 72	68 43			
			0 31		65 15
	11 15	76 30			
			1 85		74 45
	11 45	85 20			
				4 93	2680 91
				3 44	2682 46
				3 88	2652 02
			11 42		74 48
	1 84	76 30			
			11 24		65 56
	0 39	65 45			
			11 24		53 21
	0 66	51 37			
			12 11		42 26

Top Well csg seal, Well ked/bc 1
NE corner Conc Well Pit wall
Grid Datum 4' N of well

Top Well csg seal Well ked/bc 1
East side conc well Pit (cover removed)
Grid immediately N of well Pit

+	HI	-	IFS	Elev
0 55	412 31			
		6 52		35 92
0 40	36 32			
		2 91		33 21
2 84	36 25			
		5 15		31 16
10 15	41 25			
		0 36		40 59
12 99	53 25			
		0 55		53 33
11 29	64 62			
		0 24		64 33
12 68	77 06			
		0 09		76 22
10 68	97 65			
		0 22		86 93
9 80	96 73			
		0 86		95 87
6 20	2702 07			
		11 67		90 40
0 43	90 83			
		11 75		79 08
7 34	86 42			
		2 32		84 55
9 86	94 31			



MASTER CARD

Record by GR Source of data C/S Date 27 July 72 Map 39N-SW-190dc1
Moscow West
 State Idaho County (or town) Latah Section 5:7
 Latitude: 46° 23' 10" N Longitude: 117° 00' 12" W Sequential number: 1
 Lat-long accuracy: 1/2 39 S, R 5 Sec 19 SW & SE & NE & Boise
 Local well number: 2102 0.5 W 190dc1 Other number: B & H
 Local use: _____ Owner or name: Bill Williams Address: Sev. d'Alon.
 Ownership: County, Fed Gov't, City, Corp of Co, Private, State Agency, Water Dist. P
 Use of water: (A) Air cond, Bottling, Comm, Devater, Power, Fire, Irr, Mad, Ind, P S, Rec, (B) _____ (C) _____ (D) _____ (E) _____ (F) _____ (G) _____ (H) _____ (I) _____ (J) _____ (K) _____ (L) _____ (M) _____ (N) _____ (O) _____ (P) _____ (Q) _____ (R) _____ (S) _____ (T) _____ (U) _____ (V) _____ (W) _____ (X) _____ (Y) _____ (Z) _____
 Stock, Instit, Unused, Reppure, Recharge, Desal-P S, Desal-other, Other C
 Use of well: (A) Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed W
 DATA AVAILABLE: Well data 70 Freq. W/L mess.: 1000 Field aquifer char. 71
 Evid. lab. data: _____
 Qual. water data: type: _____
 Freq. sampling: _____ Pumpage inventory: no. period: _____
 Aperture cards: _____
 Log data: _____

WELL-DESCRIPTION CARD

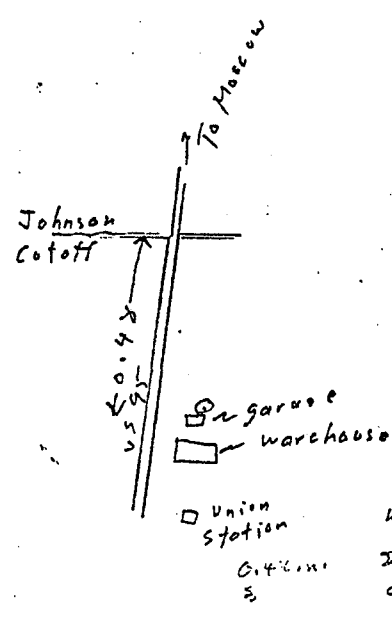
SAME AS ON MASTER CARD Depth well: _____ ft. Neas. rept. _____
 Depth cased: _____ ft. Casing type: steel accuracy _____
 Finish: (C) porous concrete, (F) gravel w. concrete, (G) gravel w. (perfl.), (H) gravel w. horis. open parfl., (I) horis. open parfl., (J) horis. open parfl., (K) screen, ed. pt., shored, (L) open parfl., (M) gallery, end, (N) other, (O) _____
 Method: (A) air bored, (B) cable, (C) aug., (D) aug. jetted, (E) aug. jetted, (F) air percussion, (G) air percussion, (H) air percussion, (I) air percussion, (J) air percussion, (K) air percussion, (L) air percussion, (M) air percussion, (N) air percussion, (O) air percussion, (P) air percussion, (Q) air percussion, (R) air percussion, (S) air percussion, (T) air percussion, (U) air percussion, (V) air percussion, (W) air percussion, (X) air percussion, (Y) air percussion, (Z) air percussion
 Drilled: rot. _____
 Date drilled: 9-7-72 Pump intake setting: _____ ft.
 Driller: Lewis
 Lift: (A) air, (B) bucket, (C) cent. jet, (D) multiple, (E) multiple, (F) multiple, (G) multiple, (H) multiple, (I) multiple, (J) multiple, (K) multiple, (L) multiple, (M) multiple, (N) multiple, (O) multiple, (P) multiple, (Q) multiple, (R) multiple, (S) multiple, (T) multiple, (U) multiple, (V) multiple, (W) multiple, (X) multiple, (Y) multiple, (Z) multiple
 Power: (A) diesel, (B) elec, (C) gas, (D) gasoline, (E) hand, (F) gas, (G) wind, (H) wind, (I) wind, (J) wind, (K) wind, (L) wind, (M) wind, (N) wind, (O) wind, (P) wind, (Q) wind, (R) wind, (S) wind, (T) wind, (U) wind, (V) wind, (W) wind, (X) wind, (Y) wind, (Z) wind
 Descrip. of well: Hand-dug well on E. side of road 110 ft. above LSD, Alt. MP _____
 Alt. LSD: 2585 Accuracy: ± 20'
 Water level: 14.36 ft. above MP; 1.3 ft. below LSD Accuracy: ± 0.2
 Date meas: 27 July 72 Yield: _____ gpm Method determined: _____
 Drawdown: _____ ft. Accuracy: _____
 QUALITY OF WATER DATA: Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm Hard. _____ ppm
 Sp. Conduct _____ K x 10⁶ Temp. _____ °F Date sampled: _____
 Taste, color, etc. _____

Yield = 280. 1000 101

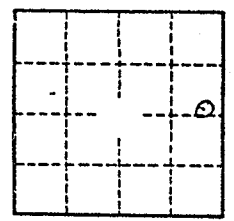
HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: Columbia Plat Section: Wally Wally
Plat Drainage Basin: S. Fork Palouse Subbasin: _____
 Topo of well site: (D) depression, (C) atream channel, (B) dunes, (A) flat, (H) hilltop, (K) sink, (L) swamp, (E) offshore, (F) pediment, (G) hillside, (I) terrace, (U) undulating, (V) valley flat V
 MAJOR AQUIFER: system _____ series _____ aquifer, formation, group _____
 Lithology: _____ Origin: _____ Thickness: _____
 Length of well open to: _____ ft. Depth to top of: _____ ft.
 MINOR AQUIFER: system _____ series _____ aquifer, formation, group _____
 Lithology: _____ Origin: _____ Thickness: _____
 Length of well open to: _____ ft. Depth to top of: _____ ft.
 Intervals Screened: _____
 Depth to consolidated rock: _____ ft. Source of data: _____
 Depth to basement: _____ ft. Source of data: _____
 Surficial material: _____ Infiltration characteristics: _____
 Coefficient of storage: _____ spd/ft. Coefficient of storage: _____
 Perm: _____ spd/ft.² Spec cap: _____ gpm/ft.; Number of geologic cards: _____

Well No. 39N-SW-190dc1



Well is 15' N of NE corner of a metal 1-car garage
 25' E of US 8
 95



Level Note Sheet
(For filing with well record)State Idaho County Latah Well No. 39N-5W-190dclPrepared by Woody Trihey Date leveled May 30, 1973Survey party Trihey & Assoc. Agency pvt.Level book _____
(Name Number Page)Control: Levelled from (USC&GS, USGS, IDPW, Other IGS.) BM No.X-344 (Line, Quad) No. 2 Airport spur Ida. Date _____Leveling order (First, Second, Third, Fourth) (Adj), Unadj., Preliminary)datum of 1929, Pac. NW, Supp. Adj. of 1947, Supp. Adj. of1960, Supp. Adj. of _____, Supp. Adj. of _____Method determined: (Spirit), Transit, Alidade, Altimeter, Other _____)Accuracy Order: (First, Second, Third, Fourth, Other _____)2566⁴ Land-surface datum. Date estab. May 30, 19732566⁴⁰ Land surface 4 feet W of well.2567¹² Ref. Mark No. 1, N end of conc garage
Floor in door opening Black paint
rectangle2567¹² Ref. Mark No. 2, Send of conc floor
in garage door opening black
paint rectangle.2567¹⁴ Meas. Point No. 1. Date estab. Top of well
CSG seal

Meas. Point No. 2. Date estab. _____

Meas. Point No. 3. Date estab. _____

	+	HI	-	IFS	Elev
Bm X-344	9 03	62 10			2552 27
			2 69		59 41
	5 34	64 75			
			1 76		63 59
	6 43	70 02			
			2 90		2567 12
				2 90	2567 12
	1 90	69 02			
				1 88	67 14
				2 62	66 40
					67 12
	3 28	70 40			
					63 68
	1 18	64 86			
					59 68
	2 53	62 21			
Bm X-344			9 93		52 28

RP#1 N side of Garage floor in Deer opening
 RP#2 S side of Garage floor in Deer opening
 Top of well esa sea /
 Grnd 4' west of well /
 N side garage opening

EVALUATION OF THE GROUNDWATER
SITUATION IN THE MOSCOW-PULLMAN BASIN

Anderson & Kelley
Consultants in Engineering & Geology

August 1973