

MEMORANDUM

TO: ADJUDICATION FILES 63-4799 and 02-68

FROM: DANIEL A. NELSON

DATE: 10/23/06

SUBJECT: FIELD EXAM

I was asked to field examine these files by Michael Ciscell for the Snake River Basin Adjudication (SRBA). Mr. Ciscell told me that he was confident with the acres being irrigated, and only needed the points of diversion located and the estimated flow rate of the system. This system uses groundwater and Snake River water. The two main sources are separated by topography, so they can be dealt with separately, even though they use the same irrigation system. The system was not operating at full capacity during my visit, and only a small portion of the system was being operated to drain the regulation pond. I did determine the system operates at 62 psi.

I was also asked to check on a small portion of land listed as being owned by Canyon County. I spoke with the owner about this property, and he confirmed the County owned the corner of this field. I asked if he had any agreements or anything to irrigate the property, and he told me he didn't. He told me that until last year, he was not aware that the county owned bottom of this field. They have irrigated this property since they purchased the farm in 1982.

The Snake River portion of the system is a shared system that pumps water from river up to a canal that is delivered to the owner's property. The canal is supplied by 12 large pumps that are probably well over 500 Hp per pump. I was not able to get a close up look at the pumps, because the gates were locked. However, the owner informed by that Snake River portion of the system is used to supply 24 wheel lines and 2 hand lines. All of these lines have 32 sprinklers with 9/64 nozzles. I used the following calculation to determine the claimant's portion of the canal water from the Snake River:

$(26 \text{ lines} \times 32 \text{ sprinklers/line} \times 4.76 \text{ gpm/nozzle}) / 448.8 = 8.82 \text{ cfs total water use from Snake River water.}$

From the above calculation, it appears as though there is enough Snake River water used to allow the flow rate of 7.72 cfs allowed under water right 02-68.

The ground water is supplied by several wells with various pumps. Since none of these pumps were operating during the exam, I had to perform a theoretical calculation for each pump. I was not able to get the water levels on most of these pumps, so I used the well logs. I included the well log with each calculation sheet. I have listed each well and the flow calculated below:

Well 2N 3W 22-01 – in SESE S22 – 2.42 cfs
Well 2N 3W 22-03 – in SESW S22 – 2.63 cfs
Well 2N 3W 22-04 – in SENW S22 – 2.93 cfs
Well 2N 3W 22-05 – in SWNE S22 – 2.48 cfs
Well 2N 3W 22-06 – in SWNE S22 – 1.99 cfs
Well A0000434 – in NENW S23 – 2.56 cfs
Well 2N 3W 23-01 – in SWNW S23 – 4.37 cfs
Well 2N 3W 23-03 – in SESW S23 – 3.62 cfs
Well 2N 3W 23-04 – in SENE S23 – 4.65 cfs
Well 2N 3W 26-02 – in SENE S26 – 3.01 cfs

TOTAL DIVERSION CAPACITY FROM ALL WELLS = 30.66 cfs

Please Note: There is a well in the SESW S22 that used to be an irrigation well, but it has been converted over to a domestic well. Therefore, it was not included in this calculation, because it appeared to be purposely abandoned as far as the irrigation system was concerned.

Well A0000434 in the NWNW S23 and Well 2N 3W 22-03 in the SESW S22 did not have pumps in the wells. The owner told me the horsepower of these pumps, so I performed a theoretical based on the owner's information. These wells will need to be monitored in the future for non-use, and may be pulled from the system if they are not put back into operation 5 years after the decree has been issued. The pumps were removed in the 1990's due to problems with sand wearing out the pumps.

I have not done the overlap review, but it appears as though there is more than enough capacity in the system to irrigate this farm.

**SNAKE RIVER
INFORMATION FOR
RIGHT 02-68**



T1N R3W
S16 NWNW
LOT 3

This is an aerial photograph of a river area, likely the Snake River. A yellow line traces a path along the river, indicating a diversion. A blue line runs horizontally across the middle of the image. The text 'T1N R3W S16 NWNW LOT 3' is overlaid in blue. A yellow callout box points to a specific location on the river with the text 'SNAKE RIVER DIVERSION'.

SNAKE RIVER DIVERSION

UNIVERSITY OF IDAHO — FACT SHEET

Hydraulic Relationships and Performance, Soil and Water Relationships

NOZZLE DISCHARGE IN GALLONS PER MINUTE

HYDRAULIC RELATIONSHIPS

*** NOZZLE DIAMETER IN INCHES ***										PRESSURE: (P)*MAY BE IN PSI OR EQUIVALENT FEET OF WATER
psi	3/32	1/8	9/64	5/32	11/64	3/16	13/64	7/32	17/64	
20	1.17	2.09	2.65	3.26	3.92	4.69	5.51	6.37	7.25	1.0 psi = 2.31 feet
25	1.31	2.34	2.96	3.64	4.38	5.25	6.16	7.13	8.13	
30	1.44	2.56	3.26	4.01	4.83	5.75	6.80	7.86	8.95	FLOW: (Q)*MAY BE IN CFS OR EQUIVALENT GAL. PER MIN. 1.0 cfs = 449 gpm
35	1.55	2.77	3.50	4.31	5.18	6.21	7.30	8.43	9.60	
40	1.66	2.96	3.74	4.61	5.54	6.64	7.80	9.02	10.29	POWER: MAY BE IN KILLOWATTS (KW), WATER HORSEPOWER (WHP), and, ELECT. HORSEPOWER (EHP) 1.0 KW = 1.34 EHP 1.0 EHP = 0.746 KW WHP = Q(gpm) X P(ft) / 3960 KW = 1.732 X V X A X PF / 1000
45	1.76	3.13	3.99	4.91	5.91	7.03	8.30	9.60	10.95	
50	1.85	3.30	4.18	5.15	6.19	7.41	8.71	10.10	11.57	EFFICIENCY: (EFF) MAY BE WATER TO WIRE ... WHP / EHP FLUID TO SHAFT ... WHP / SHP
55	1.94	3.46	4.37	5.39	6.48	7.77	9.12	10.50	12.00	
60	2.03	3.62	4.50	5.65	6.80	8.12	9.56	11.05	12.60	VOLUME: ACRE FT. OR ACRE IN. 1.0 cfs = 1.98 AF / DAY 1.0 AF = 12.0 AI
65	2.11	3.77	4.76	5.87	7.06	8.45	9.92	11.45	13.05	
70	2.19	3.91	4.96	6.10	7.34	8.78	10.32	11.95	13.65	
75	2.27	4.05	5.12	6.30	7.58	9.08	10.66	12.32	14.05	
80	2.35	4.18	5.29	6.52	7.84	9.39	11.02	12.74	14.60	
85	2.42	4.31	5.45	6.71	8.07	9.67	11.35	13.11	14.90	
90	2.49	4.43	5.61	6.91	8.31	9.95	11.69	13.51	15.35	
95	2.56	4.56	5.76	7.09	8.53	10.20	11.99	13.86	15.75	
100	2.63	4.67	5.91	7.29	8.76	10.50	12.32	14.23	16.15	

$$Q(\text{gpm}) = 30.0 \times D(\text{in.})^2 \times P(\text{psi})^{0.5}$$

h = AVERAGE APPLICATION RATE IN INCHES PER HOUR

spacing	2	3	4	5	6	7	8	9	10	11	12	spacing
feet	*	*	*	*	*	*	*	*	*	*	*	feet
* gallons per minute per sprinkler												
20x20	.48	0.72	0.96	1.20	1.44	1.70	1.93	2.16	2.40	2.64	x.x	20x20
20x30	.32	0.48	0.64	0.80	0.96	1.12	1.28	1.43	1.60	1.76	1.9	20x30
20x40	.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.20	1.32	1.4	20x40
30x30	.21	0.32	0.43	0.54	0.64	0.75	0.88	0.96	1.07	1.17	1.2	30x30
30x40	.16	0.24	0.32	0.40	0.48	0.56	0.64	0.72	0.80	0.88	0.9	30x40
30x50	.13	0.19	0.25	0.32	0.38	0.45	0.51	0.58	0.64	0.70	0.7	30x50
40x40	.12	0.18	0.24	0.30	0.36	0.42	0.48	0.54	0.60	0.66	0.7	40x40
40x50	.10	0.14	0.19	0.24	0.29	0.34	0.38	0.43	0.48	0.53	0.5	40x50
40x60	.xx	0.12	0.16	0.20	0.24	0.28	0.32	0.36	0.40	0.44	0.4	40x60

LONG-TERM BASIC SOIL INFILTRATION RATES

PEAK APPLICATION RATE FOR PIVOTS

AGGREGATED-STRUCTURED-BARE-OPEN SOIL & POOR SOIL		r; R = rad. of sprinkler and pivot	
Course Sand. (*0.9)	> 0.75 - 1.00"/hr.	0.35"/hr.	h = 122.5 X Q(pvt.gpm) / (r X R)
Fine Sands. (*1.2)	> 0.50 - 0.75"/hr.	0.25"/hr.	
Fine S.Loam. (*1.9)	> 0.35 - 0.50"/hr.	0.20"/hr.	EXPECTED IRRIGATION EFFICIENCIES
Silt Loam. (*2.3)	> 0.25 - 0.40"/hr.	0.13"/hr.	Sprinkler 50 to 70%
Clay Loam. (*2.2)	> 0.10 - 0.30"/hr.	0.07"/hr.	Drop Sprays 60 to 80%
For 10 - minute SHORT-TERM rate, multiply by 6		Level Boarder 50 to 80%	
(*X.X) = Aprox. Water Holding Capacity (in./ft.)		Furrow 20 to 50%	

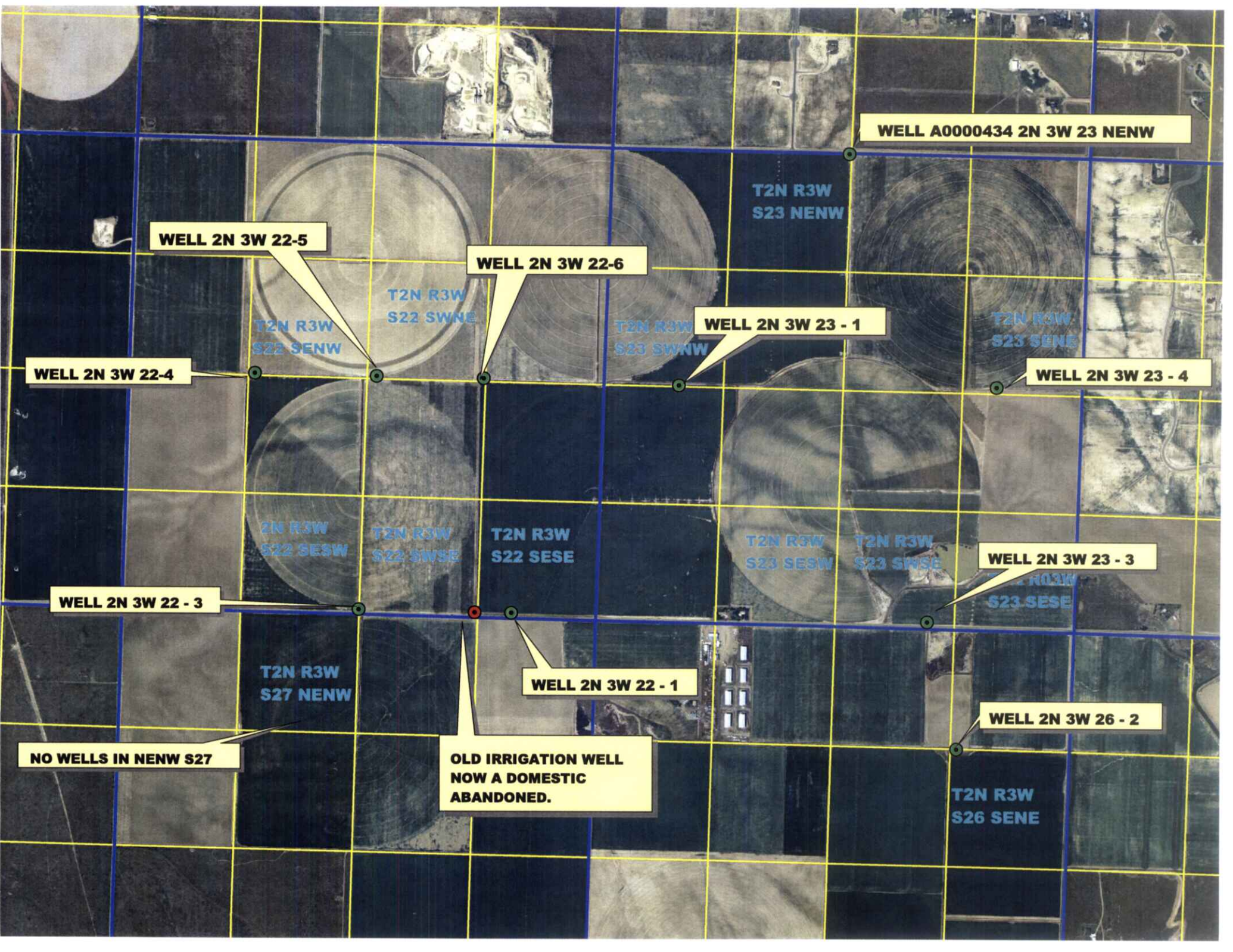
PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 10/13/2006

FILE NUMBER 02-68



This is the Snake River Diversion with two banks of 6 pumps. I am estimating that each pump is between 250 Hp to 500 Hp.

**GROUND WATER
INFORMATION FOR
RIGHT 63-4799**



WELL A0000434 2N 3W 23 NENW

T2N R3W
S23 NENW

WELL 2N 3W 22-5

WELL 2N 3W 22-6

T2N R3W
S22 SWNE

T2N R3W
S22 SENW

WELL 2N 3W 23 - 1

T2N R3W
S23 SWNW

T2N R3W
S23 SENE

WELL 2N 3W 23 - 4

WELL 2N 3W 22-4

2N R3W
S22 SESW

T2N R3W
S22 SWSE

T2N R3W
S22 SESE

T2N R3W
S23 SESW

T2N R3W
S23 SWSE

WELL 2N 3W 23 - 3

T2N R3W
S23 SESE

WELL 2N 3W 22 - 3

T2N R3W
S27 NENW

WELL 2N 3W 22 - 1

NO WELLS IN NENW S27

OLD IRRIGATION WELL
NOW A DOMESTIC
ABANDONED.

WELL 2N 3W 26 - 2

T2N R3W
S26 SENE

GROUNDWATER THEORETICAL ANALYSIS

Well 2N 3W 22-1
in SESE S-22.

FILE: 63-4799

DATE: 10-13-06

BY: DAN NELSON

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8 \times (HP) \times (EFF.))}{TDH}$

Q = CFS

HP = Total Brake Horsepower of pumping plant (including booster)

Eff. = Pumping plant efficiency (assume 70% or 0.70)

TDH = Total dynamic head = [(LIFT) + (PSI X 2.31)]

LIFT = Depth to water in FEET from land surface to pumping water level

PSI = Pumping pressure measured in PSI near pump (if open discharge assume [0])

$$Q = \frac{(8.8 \times (200 HP) \times (0.70))}{[(366.7) + (62 PSI \times 2.31)]} = \frac{1232}{1084.92} = 2.42 CFS$$

1084 gpm.

LIFT FROM:

Measurement ()

Owner ()

Area estimate ()

Well Logs (X)

PSI FROM:

Measurement ()

Owner ()

Estimate ()

Owner Gage (X)

Booster (Y) (N)

NOTES ON PUMP:

Motor Make, Serial or ID

Pump Make, Serial or ID, rating

REMARKS: Well Log Shows a static water level of 345 FT. A well study done in this area by Shane Bendixen showed that the average drawdown was 21.7 FT. Therefore the total lift would be 345 + 21.7 = 366.7 FT. The owner stated that this system is run @ 60 psi. ~~the~~ I found one operational pressure gauge that showed the pressure at 62 psi.

Return to Max Barlow
also send map blank

WELL LOG AND REPORT TO THE STATE RECLAMATION ENGINEER OF IDAHO

31678

Log No. _____
Rec'd. _____, 19____
Well No. _____
Permit No. _____

(DO NOT FILL IN)

Owner M. J. Barlow Inc. Address Vale, Oregon
Driller Holloway Drilling Co. Address ONTARIO, OR. Lic. No. 132
Location of Well: SE 1/4 SW 1/4 Sec. 22, T. 2 N., R. 3 W. County, _____
and _____ feet N/S, and _____ feet E/W from _____ Corner of _____ 1/4 Sec. _____
Size of Drilled Hole 16" Total depth of Well 734'
Give depth of standing water from surface 345' Water Temp. 87° °Fahrenheit
On pumping test delivery was 2000 g.p.m. or _____ c.f.s. Drawdown was 643.5 feet.
Size of pump and motor used to make the test 8" Calum 12" Baulk 2-150 HP. Reischmiller
Length of time pumped during check was 8 hr., _____ minutes.
If flowing well, give flow in c.f.s. _____ or g.p.m. _____ and shut in pressure _____
If flowing well, describe control works _____ (TYPE AND SIZE OF VALVE, ETC.)
Water will be used for Irrigation Weight of casing per linear foot 59#
Thickness of casing 1/4" Casing material Steel
Diameter, length and location of casing - 2' to 465 - 16" 12" 460' - 570'
(CASING 12" IN DIAMETER AND UNDER GIVE INSIDE DIAMETER; CASING OVER 12" IN DIAMETER GIVE OUTSIDE DIAMETER.)
Number and size of perforations 800-3/8" 14" located 470' feet to 570' feet
from surface of ground.
Other perforations None
Date of commencement of well 11-25-57 Date of completion of well 5-17-58
Type of well rig 72 Star Cable tool Rig -

CASING RECORD

DIAM. CASING	FROM FEET	TO FEET	LENGTH	REMARKS -- SEALS, GROUTING, ETC.
16"	-2	463	465	
12"	460	570	110'	

GENERAL INFORMATION—Pumping Test, Quality of Water, Etc.

SESW S. 22 2N 3W

2N 3W
22-1
Top of
SESU
5-22
345' static

WELL LOG

Section 21
23 3 22 58.5 W
Bar Co. La.

From Foot	To Foot	Type of Material	Drilling Time		Water-losing Formation Ant. Yes or No	Casing Perforated Ant. Yes or No
			Hrs.	Min.		
0	3	top soil				
3'	8'	hard pan				
8	16	Clay & gravel				
16	40	Cement gravel			31679	
40	60	clay				
60	85	Cinder strips in clay				
85'	87'	lava rock				
87	150	cinders - dry -				
150	270	Sand & gravel Dry				
270	335	Sand Dry				
335	340	Clay strip				
340	385	Sand with water				
385	395	Sand rock				
395	409	Blue clay				
409	445	Sand with water				
445	465	Blue shale				
465	487	Grey Granite Rock				
487	492	Soap stone				

If more space is required use Sheet No. 2

WELL DRILLERS STATEMENT

This well was drilled under my jurisdiction and the above information is true and correct to the best of my knowledge and belief.

Signed Holloway Drilling Co.
By May Holloway

Dated 6-1, 1958

License No. 133

SESW 5.22 2N3W

Well Driller 2166111
Well Location 7332-152500

[illegible]

GROUNDWATER THEORETICAL ANALYSIS

Well 2N 3W 22-3
in SESW 5-22.

FILE: 63-4799

DATE: 10-13-06

BY: DAN Nelson

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8 \times (HP) \times (EFF.))}{TDH}$

Q = CFS

HP = Total Brake Horsepower of pumping plant (including booster)

Eff. = Pumping plant efficiency (assume 70% or 0.70)

TDH = Total dynamic head = [(LIFT) + (PSI X 2.31)]

LIFT = Depth to water in FEET from land surface to pumping water level

PSI = Pumping pressure measured in PSI near pump (if open discharge assume [0])

$$Q = \frac{(8.8 \times (250 \text{ HP}) \times (0.70))}{[(441.7) + (62 \times 2.31)]} = \frac{1540}{584.92} = 2.63 \text{ cfs}$$

1182 gpm

LIFT FROM:

Measurement ☒

Owner ()

Area estimate ()

Well Logs ()

PSI FROM:

Measurement ()

Owner ()

Estimate ()

Owner Gage ☒

Booster (Y) (N)

NOTES ON PUMP:

Motor Make, Serial or ID

Pump Make, Serial or ID, rating

REMARKS: There was no pump motor on this well, because it was being repaired. The owner told me it was a 250HP motor. The well log shows a static water level of 420 FT, and I measured this well at 420 FT. The Shane Bendixson study shows an average drawdown of 21.7 FT. so 420 FT + 21.7 FT = 441.7 FT LIFT. The pressure in this system was set at 62 psi.

WELL LOG AND REPORT TO THE STATE RECLAMATION ENGINEER OF IDAHO

RECEIVED
JUN 6 1960
Department of Reclamation
Log No. _____
Rec'd _____, 19____
Well No. _____
Permit No. **36412**

(DO NOT FILL IN)

Owner Barlow Inc. Address Nampa, Idaho
Driller Holloway Drilling Co. Address Ontario, Oregon Lic. No. 132
Location of Well: NE 1/4 NW 1/4 Sec. 27, T. 2 N. R. 3 SW Canyon County,
and 840 feet N of S, and 30 feet E of W from NW Corner of NE 1/4 NW 1/4 Sec. 27
Size of Drilled Hole 16" Total depth of Well 638'
Give depth of standing water from surface 421 Water Temp. 87° Fahrenheit
On pumping test delivery was 780 g.p.m. or _____ c.f.s. Drawdown was 119 feet.
Size of pump and motor used to make the test 8" pump 12" Impellers 300 H. P. Motor
Length of time pumped during check was 24 hr. 5 minutes.
If flowing well, give flow in c.f.s. _____ or g.p.m. _____ and shut in pressure _____
If flowing well, describe control works _____
(TYPE AND SIZE OF VALVE, ETC.)
Water will be used for Irrigation Weight of casing per linear foot 59#
Thickness of casing 1/4" Casing material Steel
E.G., PIPE, CONCRETE, WOOD.
Diameter, length and location of casing -2 to 487'-16" and 160'-14" -425-585
(CASING 12" IN DIAMETER AND UNDER GIVE INSIDE DIAMETER;
CASING OVER 12" IN DIAMETER GIVE OUTSIDE DIAMETER.)
Number and size of perforations 1" x 3/16"-1488 located 496' feet to 527 feet ^{31'}
from surface of ground.
Other perforations _____
Date of commencement of well Jan 27-1960 Date of completion of well April 4- 1960
Type of well rig 72 Speed Star Cable tool Rig.

CASING RECORD

DIAM. CASING	FROM FEET	TO FEET	LENGTH	REMARKS -- SEALS, GROUTING, ETC.
16" <u>00</u>	-2'	485'	487'	
14" <u>00</u>	425	585	160'	

GENERAL INFORMATION—Pumping Test, Quality of Water, Etc.

NE NW S. 27 2N3W

Actually
S-23
SESW
22-3
meas-420
Static 421

↑
This well
log lists this
well in S-27,
But there is
no well in
S-27. This
well is actually
in the SESW S-22.
The static
water level
matches the
well log.

WELL LOG

From Foot	To Foot	Type of Material	Drilling Time		Water-bearing Formation Ant. Yes or No	Casing Perforated Ant. Yes or No
			Hrs.	Min.		
0	3'	Top Soil				
3	8'	Hard Pan				
8'	45'	Cement Gravel				
45	55	Sand & Gravel				
55	93	Sand				
93	107	Clay				
107	122	Sandy Clay				
122	133	Sand				
133	187	Sandy Clay				
187	256	Sand				
256	270	Sandy Clay				
270	280	Clay				
280	340	Sand				
340	370	Sandy Clay				
370	425	Clay				
425	459	Quick Sand with water brown				
459	474	Fine black shooting Sand				
474	496	Blue Shale				
		If more space is required use Sheet No. 2				

WELL DRILLERS STATEMENT

This well was drilled under my jurisdiction and the above information is true and correct to the best of my knowledge
and belief. 81

Signed _____

By _____

License No. _____

Dated _____, 19_____

GROUNDWATER THEORETICAL ANALYSIS

Well 2N3W 22-4

FILE: 63-4799

in the SE 1/4 S-22

DATE: 10-13-06

BY: DAN Nelson.

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8 \times (HP) \times (EFF.))}{TDH}$

Q = CFS

HP = Total Brake Horsepower of pumping plant (including booster)

Eff. = Pumping plant efficiency (assume 70% or 0.70)

TDH = Total dynamic head = [(LIFT) + (PSI X 2.31)]

LIFT = Depth to water in FEET from land surface to pumping water level

PSI = Pumping pressure measured in PSI near pump (if open discharge assume [0])

$$Q = \frac{(8.8) \times (250 HP.) \times (0.70)}{[(381.7) + (62 ps. \times 2.31)]} = \frac{1540}{524.92} = 2.93 cfs$$

1317 gpm.

LIFT FROM:

PSI FROM:

NOTES ON PUMP:

Measurement ()

Measurement ()

Motor Make, Serial or ID

Owner ()

Owner ()

Area estimate ()

Estimate ()

Pump Make, Serial or ID, rating

Well Logs (X)

Owner Gage (X)

Booster (Y) (N)

REMARKS: well log shows static water level at 360 FT. with Shreve Bendixon study shows the water drawdown at 21.7 FT average for this area. 360 FT + 21.7 FT = 381.7 FT total lift. Pressure determined per owner's gauge.

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Administration

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Reclamation Engineer
within 30 days after completion or abandonment of the well.

*Received
4-12-72
D-10*

1. WELL OWNER

Name Walter Russell
10th Ave. & Archer Rd.
Address Caldwell, Idaho 83605
Owner's Permit No. _____

7. WATER LEVEL

Static water level 350 feet below land surface
Flowing? ☐ Yes ☐ No G.P.M. flow _____
Temperature _____ ° F. Quality _____
Artesian closed-in pressure _____ p.s.i.
Controlled by ☐ Valve ☐ Cap ☐ Plug

2. NATURE OF WORK

☐ New well ☐ Deepened ☒ Replacement
☐ Abandoned (describe method of abandoning) _____

8. WELL TEST DATA

☒ Pump ☐ Bailor ☐ Other _____
Discharge G.P.M. 1800 Draw Down 83' Hours Pumped _____

3. PROPOSED USE

☐ Domestic ☒ Irrigation ☐ Test
☐ Municipal ☐ Industrial ☐ Stock

4. METHOD DRILLED

Reverse _____
☐ Cable ☒ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole _____ inches Total depth 643 feet
Casing schedule: ☒ Steel ☐ Concrete
Thickness _____ inches Diameter _____ inches From _____ feet To _____ feet
.250 inches 30 inches +12" feet 820 feet
.201 inches 16 inches +12" feet 493 feet
.201 inches 16 inches 623 feet 530 feet
_____ inches _____ inches _____ feet _____ feet
_____ inches _____ inches _____ feet _____ feet

Was a packer or seal used? ☒ Yes ☐ No
Perforated? ☒ Yes ☐ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation _____ inches by _____ inches
Number _____ From _____ feet To _____ feet
_____ perforations 493 feet 820 feet
_____ perforations _____ feet
_____ perforations _____ feet

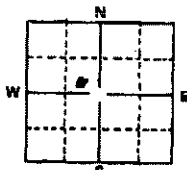
Well screen installed? ☒ Yes ☐ No
Manufacturer's name _____
Type Deepo mesh Model No. _____
Diameter 1 1/2 Slot size 1/8 Set from 493 feet to 623 feet
Diameter _____ Slot size _____ Set from _____ feet to _____ feet

Gravel packed? ☒ Yes ☐ No Size of gravel 3/8
Placed from 0 feet to 642 feet

Surface seal? ☒ Yes ☐ No To what depth 10 feet
Material used in seal ☒ Cement grout ☐ Puddling clay

6. LOCATION OF WELL

Sketch map location must agree with written location.



County SE 1/4 NW 1/4 Sec. 22, T. 2 N. R. 3 W

9. LITHOLOGIC LOG

Hole Diam.	Depth		Material	Water	
	From	To		Yes	No
	0	6	topsoil		
	3	13	hard pan		
	13	18	coarser hardpan		
	18	33	lava cinders & finer clay		
	33	78	cinders		
	78	94	cinders, gravel & clay		
	94	91	fine brown sand		
	91	113	cemented gravel & sand		
	113	119	crs sand-nigger leads		
	119	143	fine brown sand		
	143	170	sand		
	170	196	green clay		
	196	208	rev & brn sand		
	208	213	green clay		
	213	227	sandy brn clay		
	227	247	brn sand		
	247	266	brn clay		
	266	282	red brn sand		
	282	293	clay, sandy texture		
	293	303	fine sand		
	303	313	sandy tex. brn clay		
	313	323	alternate layers of sand and clay		
	323	324	clay & trace of sand		
	324	396	red sand		
	396	413	fine green clay		
	413	430	brn fine sand		
	430	443	silty sandy clay		
	443	448	brn sand		
	448	453	clay		
	453	459	sand silty tex.		
	459	474	grey green clay		
	474	476	silty sand		
	476	494	blue clay		
	494	521	black sand		
	521	523	blue clay		

10.

Work started March 4-72 finished March 27-72

11. DRILLER'S CERTIFICATION

This well was drilled under my supervision and this report is
true to the best of my knowledge.

Pete Cove Drilling Co. #213
Driller's or Firm's Name Number
P.O. Box 561 - Meridian, Idaho 83642
Address
Signed By Pete Cove Date _____

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE, BLUE, AND PINK COPIES TO THE DEPARTMENT

FW 3W 224

SEAW

S-22

360' static

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Reclamation Engineer
within 30 days after completion or abandonment of the well.Received
H-12-12
H-12-12

1. WELL OWNER

Name _____

Address _____

Owner's Permit No. _____

7. WATER LEVEL

Static water level _____ feet below land surface

Flowing? ☐ Yes ☐ No G.P.M. flow _____

Temperature _____ ° F. Quality _____

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

Controlled by ☐ Valve ☐ Cap ☐ Plug

2. NATURE OF WORK

☐ New well ☐ Deepened ☐ Replacement☐ Abandoned (describe method of abandoning) _____

8. WELL TEST DATA

☐ Pump ☐ Bailer ☐ Other

Discharge G.P.M.

Draw Down

Hours Pumped

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test☐ Municipal ☐ Industrial ☐ Stock

4. METHOD DRILLED

☐ Cable ☐ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole _____ inches Total depth _____ feet

Casing schedule: ☐ Steel ☐ Concrete

Thickness	Diameter	From	To
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was a packer or seal used? ☐ Yes ☐ NoPerforated? ☐ Yes ☐ NoHow perforated? ☐ Factory ☐ Knife ☐ Torch

Size of perforation _____ inches by _____ inches

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

Well screen installed? ☐ Yes ☐ No

Manufacturer's name _____

Type _____ Model No. _____

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

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

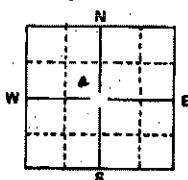
Gravel packed? ☐ Yes ☐ No Size of gravel _____

Placed from _____ feet to _____ feet

Surface seal? ☐ Yes ☐ No To what depth _____ feetMaterial used in seal ☐ Cement grout ☐ Puddling clay

6. LOCATION OF WELL

Sketch map location must agree with written location.



County _____

SE 1/4 NW 1/4 Sec. 33, T. 2 N. R. 3 E

10.

Work started 3/9/72 finished 3/27/72

11. DRILLER'S CERTIFICATION

This well was drilled under my supervision and this report is
true to the best of my knowledge.

Pete Cope Drilling Co. #213

Driller's or Firm's Name Number

P.O. Box 501 - Meridian, Idaho

Address

Signed By _____ Date _____

GROUNDWATER THEORETICAL ANALYSIS

FILE: 63-4799

Well 2N3W22-5 DATE: 10-13-06

in the SWNE 522 BY: DAN NELSON

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8 \times (HP) \times (EFF.))}{TDH}$

Q = CFS

HP = Total Brake Horsepower of pumping plant (including booster)

Eff. = Pumping plant efficiency (assume 70% or 0.70)

TDH = Total dynamic head = [(LIFT) + (PSI X 2.31)]

LIFT = Depth to water in FEET from land surface to pumping water level

PSI = Pumping pressure measured in PSI near pump (if open discharge assume [0])

$$Q = \frac{(8.8) \times (\underline{200}) \times (0.70)}{1232} = \underline{2.48 \text{ CFS}}$$

1113 gpm.

$$[(\underline{353.7}) + (\underline{62 \text{ psi}} \times 2.31)] = 496.92$$

LIFT FROM:

Measurement ()

Owner ()

Area estimate ()

Well Logs (X)

Booster (Y) (N)

PSI FROM:

Measurement ()

Owner ()

Estimate ()

Owner Gage ()

NOTES ON PUMP:

Motor Make, Serial or ID

Pump Make, Serial or ID, rating

REMARKS: Well log shows static water level
at 332 FT. Shane Bendixson study shows
The drawdown at 21.7 FT. average for this
area 332 FT. + 21.7 FT. = 353.7 FT total
lift. Pressure determined per owner's
guage.

No. 4

return to Map Barlow

WELL LOG AND REPORT TO THE STATE RECLAMATION ENGINEER OF IDAHO

Log No. _____
Rec'd. _____ 19____
Well No. _____
Permit No. 2-22
31681

(DO NOT FILL IN)

Owner BARLOW TNC. Address RURAL NAMPA IDAHO
Driller HOLLOWAY DRILLING CO. Address CENTARIC DR. Lic. No. 132
Location of Well SW 1/4 NE 1/4 Sec. 22, T. 2 N. R. 3 E County, _____
and _____ feet N/S, and _____ feet E/W from _____ Corner of _____ 1/4 Sec. _____
Size of Drilled Hole 16" Total depth of Well 445' 31681
Give depth of standing water from surface 332' Water Temp. 78" "Fahrenheit"
On pumping test delivery was 2000 g.p.m. or _____ c.f.s. Drawdown was 6.38' feet.
Size of pump and motor used to make the test 8" with 12" Bore 300 H.P. Twin Electric
Length of time pumped during check was 16 hr., _____ minutes.
If flowing well, give flow in c.f.s. _____ or g.p.m. _____ and shot in pressure _____
If flowing well, describe control works _____
(TYPE AND SIZE OF VALVE, ETC.)
Water will be used for IRRIGATION Weight of casing per linear foot 59"
Thickness of casing .286 Casing material STEEL
E.G. PIPE, CONCRETE, WOOD.
Diameter, length and location of casing -2' to 365'-16" and 14" from 320 to 430'
(CASING 16" IN DIAMETER AND GIVE GIVE INSIDE DIAMETER;
CASING 14" IN DIAMETER GIVE OUTSIDE DIAMETER.)
Number and size of perforations 5200 1" x 4" located 365' feet to 430' feet
from surface of ground.
Other perforations 110' -
Date of commencement of well 1-12-58 Date of completion of well 12-28-58
Type of well rig 72 story cable tool rig

CASING RECORD

DIAM. CASING	FROM FEET	TO FEET	LENGTH	"REMARKS" -- SEALS, GROUTING, ETC.
16"	0	365	365'	Drove 14" casing up to sand rock and run open hole to meet strata of water at 445'
14"	320	430	110'	

GENERAL INFORMATION—Pumping Test, Quality of Water, Etc.

Test was made before the 14" casing was installed. Well closed in 7 hrs with capacity of 2000 gal per minute. But no flow was coming in. This is the reason for 14" casing. Could not make well break suction. SWNE S. 22 2 N 3 W

2 N 3 W 22

- 5

SW NE

S-22

338' static.

Holloway
 223 N 22 27 8
 Barlett Inc

WELL LOG

From Feet	To Feet	Type of Material	Drilling Time		Casing Feet	Ann. Van. or Loss
			Min.	Sec.		
0	8	TOP SOIL				
8	7	HARD PAN				
7	15	ASHES				
15	16.5	CLAY				
16.5	207	CINDERES				31682
207	287	CLAY				
287	370	DRY SAND				
370	352	CLAY				
352	370	SAND FIRST WATER				
370	378	BLUE SHALE				
378	395	BLUE SAND		most	W	
395	407	BLUE SHALE				
407	400	BLUE SAND				
410	424	SOAP STONE				
424	426	COARSE SAND		most	W	
10 426	435	SAND ROCK				
435	444	BLUE SHALE				
444	448	COARSE SAND				

If more space is required use Sheet No. 2

WELL DRILLERS CERTIFICATE

This well was drilled under my jurisdiction and the above information is true and correct to the best of my knowledge and belief.

Signed Holloway Drilling Co.
 By Max Holloway

Dated 2-26, 1959

License No. 132

SWNE 5.22 2N 3W

GROUNDWATER THEORETICAL ANALYSIS

Well 2W3W 22-6

FILE: 63-4799

in the SW NE S-22 DATE: 10-13-06

BY: DAN NELSON

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8 \times (HP) \times (EFF.))}{TDH}$

Q = CFS

HP = Total Brake Horsepower of pumping plant (including booster)

Eff. = Pumping plant efficiency (assume 70% or 0.70)

TDH = Total dynamic head = [(LIFT) + (PSI X 2.31)]

LIFT = Depth to water in FEET from land surface to pumping water level

PSI = Pumping pressure measured in PSI near pump (if open discharge assume [0])

$$Q = \frac{(8.8 \times (200 HP) \times (0.70))}{[(475) + (62 PSI \times 2.31)]} = \frac{1232}{618.22} = 1.99 CFS$$

894.8 GPM.

LIFT FROM:

Measurement ()

Owner ()

Area estimate ()

Well Logs ()

PSI FROM:

Measurement ()

Owner ()

Estimate ()

Owner Gage ()

Booster (Y) (N)

NOTES ON PUMP:

Motor Make, Serial or ID

Pump Make, Serial or ID, rating

REMARKS: Well 206 shows a static water level at 404 FT. Well log also shows a pumping water level of 475 FT. 475 FT was used.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

USE TYPEWRITER OR
BALLPOINT PEN

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

Ag 10/23 9 1991

1. WELL OWNER Name <u>Harvest Farm Co.</u> Address <u>P. O. Box 650 - Cottage Grove, OR 97124</u> Owner's Permit No. <u>63-90-W-207</u> <u>63-3104</u>	7. WATER LEVEL Static water level <u>404</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ of. Quality _____ <i>Describe artesian or temperature zones below.</i>																																																																																																																																																																																																																																		
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Well diameter increase ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)	8. WELL TEST DATA ☒ Pump ☐ Bailor ☐ Air ☐ Other _____ <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Discharge G.P.M.</th> <th>Pumping Level</th> <th>Hours Pumped</th> </tr> <tr> <td style="text-align: center;">1185</td> <td style="text-align: center;">475'</td> <td style="text-align: center;">4</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	Discharge G.P.M.	Pumping Level	Hours Pumped	1185	475'	4																																																																																																																																																																																																																												
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3. PROPOSED USE ☐ Domestic ☐ Irrigation ☒ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	9. LITHOLOGIC LOG <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Bore Diam.</th> <th colspan="2">Depth</th> <th rowspan="2">Material</th> <th colspan="2">Water</th> </tr> <tr> <th>From</th> <th>To</th> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr><td>28</td><td>0</td><td>6</td><td>Gray Pumice Soil</td><td></td><td></td></tr> <tr><td></td><td>6</td><td>8</td><td>Hard Caliche</td><td></td><td></td></tr> <tr><td></td><td>8</td><td>80</td><td>Cinders & Caliche</td><td></td><td></td></tr> <tr><td></td><td>80</td><td>84</td><td>Cinders & Gravel</td><td></td><td></td></tr> <tr><td></td><td>84</td><td>96</td><td>Lge. Gravel (4" Dia. Avg.)</td><td></td><td></td></tr> <tr><td></td><td>96</td><td>116</td><td>Brown Clay</td><td></td><td></td></tr> <tr><td></td><td>116</td><td>122</td><td>Crse. Brn. Sand</td><td></td><td></td></tr> <tr><td></td><td>122</td><td>174</td><td>Brown Clay</td><td></td><td></td></tr> <tr><td></td><td>174</td><td>204</td><td>Brown Sandy Clay</td><td></td><td></td></tr> <tr><td></td><td>204</td><td>214</td><td>Brown Sand & Clay</td><td></td><td></td></tr> <tr><td></td><td>214</td><td>222</td><td>Brown Clay</td><td></td><td></td></tr> <tr><td></td><td>222</td><td>227</td><td>Gold & Gray Sand</td><td></td><td></td></tr> <tr><td></td><td>227</td><td>234</td><td>Brown Clay</td><td></td><td></td></tr> <tr><td></td><td>234</td><td>244</td><td>Brown Clay & Caliche</td><td></td><td></td></tr> <tr><td></td><td>244</td><td>274</td><td>Brown Clay</td><td></td><td></td></tr> <tr><td></td><td>274</td><td>278</td><td>Brown Sandstone & Siltstone</td><td></td><td></td></tr> <tr><td></td><td>278</td><td>294</td><td>Gray Brown Sand</td><td></td><td></td></tr> <tr><td></td><td>294</td><td>298</td><td>Gray Sandstone</td><td></td><td></td></tr> <tr><td></td><td>298</td><td>304</td><td>Brown Clay</td><td></td><td></td></tr> <tr><td></td><td>304</td><td>320</td><td>Brn. Clay w/stk. Med Sand</td><td></td><td></td></tr> <tr><td></td><td>320</td><td>324</td><td>Brown & Gray Sand</td><td></td><td></td></tr> <tr><td></td><td>324</td><td>340</td><td>Brown Sandy Clay</td><td></td><td></td></tr> <tr><td></td><td>340</td><td>350</td><td>Soft Brn. & Blue Silty Clay</td><td></td><td></td></tr> <tr><td></td><td>350</td><td>374</td><td>Blue Clay</td><td></td><td></td></tr> <tr><td></td><td>374</td><td>404</td><td>Med. Blue Sand</td><td></td><td></td></tr> <tr><td></td><td>404</td><td>414</td><td>Fine to crse. blu-gray Sand</td><td></td><td></td></tr> <tr><td></td><td>414</td><td>439</td><td>Blue Gray Sand</td><td></td><td></td></tr> <tr><td></td><td>439</td><td>444</td><td>Brn. Clay</td><td></td><td></td></tr> <tr><td></td><td>444</td><td>454</td><td>Blue Sand & Clay-Layered</td><td></td><td></td></tr> <tr><td></td><td>454</td><td>485</td><td>Blue Clay</td><td></td><td></td></tr> <tr><td></td><td>485</td><td>490</td><td>Fine Sand & Sandstone</td><td></td><td></td></tr> <tr><td></td><td>490</td><td>497</td><td>Brown & Blue Clay</td><td></td><td></td></tr> <tr><td></td><td>497</td><td>504</td><td>Gray Sandy Clay</td><td></td><td></td></tr> <tr><td></td><td>504</td><td>512</td><td>Brn. & Blu Clay w/stks. Sand</td><td></td><td></td></tr> <tr><td></td><td>512</td><td>514</td><td>Gray Sand w/sandstone layers</td><td></td><td></td></tr> <tr><td></td><td>514</td><td>520</td><td>Crse. Sand & Gravel</td><td></td><td></td></tr> </tbody> </table>	Bore Diam.	Depth		Material	Water		From	To	Yes	No	28	0	6	Gray Pumice Soil				6	8	Hard Caliche				8	80	Cinders & Caliche				80	84	Cinders & Gravel				84	96	Lge. Gravel (4" Dia. Avg.)				96	116	Brown Clay				116	122	Crse. Brn. Sand				122	174	Brown Clay				174	204	Brown Sandy Clay				204	214	Brown Sand & Clay				214	222	Brown Clay				222	227	Gold & Gray Sand				227	234	Brown Clay				234	244	Brown Clay & Caliche				244	274	Brown Clay				274	278	Brown Sandstone & Siltstone				278	294	Gray Brown Sand				294	298	Gray Sandstone				298	304	Brown Clay				304	320	Brn. Clay w/stk. Med Sand				320	324	Brown & Gray Sand				324	340	Brown Sandy Clay				340	350	Soft Brn. & Blue Silty Clay				350	374	Blue Clay				374	404	Med. Blue Sand				404	414	Fine to crse. blu-gray Sand				414	439	Blue Gray Sand				439	444	Brn. Clay				444	454	Blue Sand & Clay-Layered				454	485	Blue Clay				485	490	Fine Sand & Sandstone				490	497	Brown & Blue Clay				497	504	Gray Sandy Clay				504	512	Brn. & Blu Clay w/stks. Sand				512	514	Gray Sand w/sandstone layers				514	520	Crse. Sand & Gravel		
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S-22-6

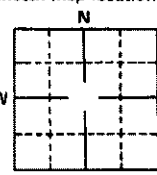
SW NE
NW NE
S-22

404' static

DL

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

pg 2 of 3

1. WELL OWNER Name <u>Harvest Farm Co.</u> Address <u>63-90-W-207</u> Owner's Permit No. <u>63-3104</u>	7. WATER LEVEL Static water level _____ feet below land surface. Flowing? ☐ Yes ☐ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ of. Quality _____ <i>Describe artesian or temperature zones below.</i>																																																																																																																																														
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pg 3 of 3

CASING SCHEDULE
HARVEST FARM CO.
SEPTEMBER 20, 1990

103550

16" Casing

+2	-	510'	-	512'
520'	-	634'	-	114'
674'	-	714'	-	40'
754'	-	759'	-	<u>5'</u>
671' C				

Johnson 16" Stainless Steel
Screens

510'	-	520'	-	10'
634'	-	674'	-	40'
714'	-	754'	-	<u>40'</u>
90' S				

63-90-W-207

2N 3W Sec 22

REPRODUCED

SEP 21 1991

GROUNDWATER THEORETICAL ANALYSIS

Well A 0000 434
in NEW S-23

FILE: 63-4799

DATE: 10-13-06

BY: DAN NELSON.

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8 \times (HP) \times (EFF.))}{TDH}$

Q = CFS

HP = Total Brake Horsepower of pumping plant (including booster)

Eff. = Pumping plant efficiency (assume 70% or 0.70)

TDH = Total dynamic head = [(LIFT) + (PSI X 2.31)]

LIFT = Depth to water in FEET from land surface to pumping water level

PSI = Pumping pressure measured in PSI near pump (if open discharge assume [0])

$$Q = \frac{(8.8 \times (200) \times (0.70))}{\frac{337.7}{1150 \text{ gpm.}}} = 2.56 \text{ cfs}$$

$$[(316) + (62 \times 2.31)] = 480.92$$

LIFT FROM:

Measurement ()

Owner ()

Area estimate ()

Well Logs (X)

Booster (Y) (N)

PSI FROM:

Measurement ()

Owner ()

Estimate ()

Owner Gage ()

NOTES ON PUMP:

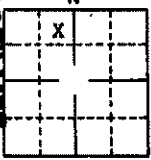
Motor Make, Serial or ID

Pump Make, Serial or ID, rating

REMARKS: There was no pump in this well, but the owner stated it did have a 200HP pump and was removed in the 1990's. The well log shows a static water level of 316 FT. Sherr Bendixon study shows an average drawdown of 21.7 FS. 316 + 21.7 = 337.7 FT. Drawdown.

WELL DRILLER'S REPORT

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

1. WELL OWNER Name <u>Canyon Farms, Inc.</u> Address <u>Rt. 4, Nampa, Idaho 83651</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u>316</u> feet below land surface. Flowing? ☐ Yes ☐ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality _____																																																																																																																																																				
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3. PROPOSED USE ☐ Domestic ☒ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	9. LITHOLOGIC LOG <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Hole Diam.</th> <th colspan="2">Depth</th> <th rowspan="2">Material</th> <th colspan="2">Water</th> </tr> <tr> <th>From</th> <th>To</th> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr><td>28</td><td>0</td><td>4</td><td>Topsoil</td><td> </td><td> </td></tr> <tr><td> </td><td>4</td><td>6</td><td>White Clay</td><td> </td><td> </td></tr> <tr><td> </td><td>6</td><td>15</td><td>Sand & Gravel</td><td> </td><td> </td></tr> <tr><td> </td><td>15</td><td>47</td><td>Sand, Gravel, River Rock</td><td> </td><td> </td></tr> <tr><td> </td><td>47</td><td>88</td><td>Brn. Clay</td><td> </td><td> </td></tr> <tr><td> </td><td>88</td><td>158</td><td>Brn. Clay w/Sand Streaks</td><td> </td><td> </td></tr> <tr><td> </td><td>158</td><td>178</td><td>Brn. Clay</td><td> </td><td> </td></tr> <tr><td> </td><td>178</td><td>218</td><td>Brn. Sand w/Clay Streaks</td><td> </td><td> </td></tr> <tr><td> </td><td>218</td><td>238</td><td>Brn. Clay</td><td> </td><td> </td></tr> <tr><td> </td><td>238</td><td>258</td><td>Brn. Clay w/Sandstone</td><td> </td><td> </td></tr> <tr><td> </td><td>258</td><td>303</td><td>Brn. Sand-Fine to Med.</td><td> </td><td> </td></tr> <tr><td> </td><td>303</td><td>313</td><td>Brn. Clay</td><td> </td><td> </td></tr> <tr><td> </td><td>313</td><td>328</td><td>Brn. Sand-Med.</td><td> </td><td> </td></tr> <tr><td> </td><td>328</td><td>350</td><td>Gray Sand w/small Gravel</td><td> </td><td> </td></tr> <tr><td> </td><td>350</td><td>355</td><td>Gray & Brn. Clay</td><td> </td><td> </td></tr> <tr><td> </td><td>355</td><td>373</td><td>Blue Clay</td><td> </td><td> </td></tr> <tr><td> </td><td>373</td><td>378</td><td>Blue Sand-Fine</td><td> </td><td> </td></tr> <tr><td> </td><td>378</td><td>420</td><td>Blue Clay</td><td> </td><td> </td></tr> <tr><td> </td><td>420</td><td>488</td><td>Blue Sand-Fine to Med.</td><td> </td><td> </td></tr> <tr><td> </td><td>488</td><td>508</td><td>Blue Clay</td><td> </td><td> </td></tr> <tr><td> </td><td>508</td><td>512</td><td>Blue Clay w/Sand Streaks</td><td> </td><td> </td></tr> <tr><td> </td><td>512</td><td>513</td><td>Blue Sand-Med. to Crs.</td><td> </td><td> </td></tr> <tr><td> </td><td>513</td><td>523</td><td>Blue Clay & Sandstone</td><td> </td><td> </td></tr> </tbody> </table>	Hole Diam.	Depth		Material	Water		From	To	Yes	No	28	0	4	Topsoil				4	6	White Clay				6	15	Sand & Gravel				15	47	Sand, Gravel, River Rock				47	88	Brn. Clay				88	158	Brn. Clay w/Sand Streaks				158	178	Brn. Clay				178	218	Brn. Sand w/Clay Streaks				218	238	Brn. Clay				238	258	Brn. Clay w/Sandstone				258	303	Brn. Sand-Fine to Med.				303	313	Brn. Clay				313	328	Brn. Sand-Med.				328	350	Gray Sand w/small Gravel				350	355	Gray & Brn. Clay				355	373	Blue Clay				373	378	Blue Sand-Fine				378	420	Blue Clay				420	488	Blue Sand-Fine to Med.				488	508	Blue Clay				508	512	Blue Clay w/Sand Streaks				512	513	Blue Sand-Med. to Crs.				513	523	Blue Clay & Sandstone		
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4. METHOD DRILLED ☐ Rotary ☐ Air ☐ Hydraulic ☒ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____	10. Work started <u>5-13-80</u> finished <u>5-31-80</u>																																																																																																																																																				
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Thickness</th> <th>Diameter</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>.250 inches</td> <td>16 inches</td> <td>2 feet</td> <td>293 feet</td> </tr> <tr> <td>.250 inches</td> <td>16 inches</td> <td>313 feet</td> <td>331 feet</td> </tr> <tr> <td>.250 inches</td> <td>16 inches</td> <td>351 feet</td> <td>391 feet</td> </tr> <tr> <td>.250 inches</td> <td>16 inches</td> <td>451 feet</td> <td>471 feet</td> </tr> </tbody> </table> Was casing drive shoe used? ☐ Yes ☒ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches Number _____ From _____ To _____ _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Well screen installed? ☒ Yes ☐ No Manufacturer's name <u>Roscoe Moss</u> Type _____ Model No. _____ Diameter <u>16</u> Slot size <u>80</u> Set from <u>293</u> feet to <u>313</u> feet Diameter <u>16</u> Slot size <u>80</u> Set from <u>331</u> feet to <u>351</u> feet Diameter <u>16</u> Slot size <u>80</u> Set from <u>391</u> feet to <u>451</u> feet Gravel packed? ☒ Yes ☐ No ☐ Size of gravel <u>3/8 minus</u> Placed from <u>20</u> feet to <u>523</u> feet Surface seal depth <u>20"</u> Material used in seal: ☐ Cement grout ☒ Puddling clay ☐ Well cuttings Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☒ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent ☐ Cemented between strata Describe access port <u>2" pipe welded on side of casing</u>	Thickness	Diameter	From	To	.250 inches	16 inches	2 feet	293 feet	.250 inches	16 inches	313 feet	331 feet	.250 inches	16 inches	351 feet	391 feet	.250 inches	16 inches	451 feet	471 feet	11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were compiled with at the time the rig was removed. Firm Name <u>Pete Cope Drilling Co., Inc.</u> Firm No. <u>213</u> Address <u>PO Box 561</u> <u>Meridian, ID 83642</u> Date <u>6-21-80</u> Signed by (Firm Official) <u>Pete Cope</u> and (Operator) <u>Jessie Jones</u>																																																																																																																																
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6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Canyon</u> NE ¼ NW ¼ Sec. <u>23</u> , T. <u>2N</u> N/S, R. <u>3W</u> E/W.	10. Work started <u>5-13-80</u> finished <u>5-31-80</u>																																																																																																																																																				

NEW.
OPEN HOLE
A0000434
316' static

001940
RECEIVED
JUN 2 1980
Department of Water Resources
Western Regional Office

GROUNDWATER THEORETICAL ANALYSIS

Well 2N 3W 23-1
in the SWNW S-23.

FILE: 67-4799

DATE: 10-13-06

BY: DAN Nelson

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8 \times (HP) \times (EFF.))}{TDH}$

Q = CFS

HP = Total Brake Horsepower of pumping plant (including booster)

Eff. = Pumping plant efficiency (assume 70% or 0.70)

TDH = Total dynamic head = [(LIFT) + (PSI X 2.31)]

LIFT = Depth to water in FEET from land surface to pumping water level

PSI = Pumping pressure measured in PSI near pump (if open discharge assume [0])

$$Q = \frac{(8.8) \times (300 \text{ Hp.}) \times (0.70)}{[(280) + (62 \text{ psi} \times 2.31)]} = \frac{1848}{423} = 4.37 \text{ CFS}$$

1960 gpm.

LIFT FROM:

Measurement ()

Owner ()

Area estimate ()

Well Logs (X)

Booster (Y) (N)

PSI FROM:

Measurement ()

Owner ()

Estimate ()

Owner Gage (X)

NOTES ON PUMP:

Motor Make, Serial or ID

Pump Make, Serial or ID, rating

REMARKS:

Well log shows a pumping
water level of 280 FT. owner's gage
shows ~~psi~~ psi reading.

WELL DRILLER'S REPORT

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

[illegible]

23-01

SE NW

200 static

RECEIVED
DEC 14 1992

Department of Water Resources
Western Regional Office

GROUNDWATER THEORETICAL ANALYSIS

Well - 2N3W 23-03
in the SE SW 5-23.

FILE: 63 - 4799

DATE: 10-13-06

BY: DAN NELSON

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8 \times (HP) \times (EFF.))}{TDH}$

- Q = CFS
HP = Total Brake Horsepower of pumping plant (including booster)
Eff. = Pumping plant efficiency (assume 70% or 0.70)
TDH = Total dynamic head = [(LIFT) + (PSI X 2.31)]
LIFT = Depth to water in FEET from land surface to pumping water level
PSI = Pumping pressure measured in PSI near pump (if open discharge assume [0])

$$Q = \frac{(8.8) \times (250 \text{ HP.}) \times (0.70) \approx 1540}{[(281.7) + (62 \times 2.31)] \approx 424.92} = 3.62 \text{ CFS}$$

1627 gpm.

<u>LIFT FROM:</u>	<u>PSI FROM:</u>	<u>NOTES ON PUMP:</u>
Measurement ()	Measurement ()	Motor Make, Serial or ID
Owner ()	Owner ()	
Area estimate ()	Estimate ()	Pump Make, Serial or ID, rating
Well Logs (X)	Owner Gage (X)	
Booster (Y) (N)		

REMARKS: Well Log shows a static water level of 200 FT. The Shale Bradford study shows an average drawdown in this area of 21.7 Feet. 200 + 21.7 = 221.7 Total lift

**WELL LOG AND REPORT TO THE
STATE RECLAMATION ENGINEER OF IDAHO**

Log No. CE 1111
 Rec. MAR 11 1955
 Department of Reclamation
 Permit No. 22202
36416

DO NOT FILL IN

Owner R.E. BALLEW & SON Driller R.E. BALLEW
 Address Route 1 Nampa, ID Address same Lic. No. 64
 Location of Well: SE 1/4 SW 1/4 Sec. 23, T. 2 N/S, R. 3 E/W Canyon County.
 and _____ feet N/S, and _____ feet E/W from _____ corner of _____ 1/4 Sec.
 Water will be used for Domestic Total depth of well 364'
 Size of drilled hole _____ Weight of casing per linear foot _____
 Thickness of casing 10 gauge Casing Material Red Steel
 e.g., pipe, concrete, wood.
 Diameter, length and location of casing 10" 364'
 (Casing 12" in diameter and under give inside diameter; casing over 12" in diameter give outside diameter.)
 Number and size of perforations _____ located _____ feet to _____ feet
 from surface of ground.
 Other Perforations: _____
 If flowing well, give flow in c.f.s. _____ or g.p.m. _____ and shut in pressure _____
 If nonflowing well, give depth of standing water from surface 260
 If flowing well, describe control works _____
 (Type and size of valve, etc.)
 On pumping test delivery was 410 g.p.m. or _____ c.f.s. Drawdown was 100 feet
 Length of time pumped during check was 12 hr. _____ min. Water temp. 82° °Fahrenheit.
 Date of commencement of well Sept 30 1953 Date of Completion of well 5 3
 Type of well rig Kirkhamman Chain type

CASING RECORD

Diam. Casing	From Feet	To Feet	Length	Remarks — Seals, Grouting, Etc.

GENERAL INFORMATION—Pumping Test, Quality of Water, Etc.

Well is now pumping 540 g.p.m.

SESW 5.23 2N 2W

2W 3W

23-03

SE SW

260' static

WELL LOG

From Feet	To Feet	Type of Material	Drilling Time		Water-bearing Formation Ans. Yes or No	Casing Perforated Ans. Yes or No
			Hrs.	Min.		
Top	6'	Soil & Clay some cinders	3	10		
6'	28'	Cinders & shale Composition	3	25		
28'	40'	Clay Red & Brown	1	35		
40'	76'	Clay & Cinders	6	30		
76'	98'	Clay & Cinders	7			
98'	154'	Condensed coarse clay	35			
154'	159'	Cinders fine	2	30		
159'	165'	Cinders	8			
165'	173'	Rock Large River Bed	8			
173'	188'	Sand coarse	8			
188'	212	Clay	8			
212	216	Sand	3			
216'	224	Clay	5			
224'	230	Sand	5			
230	242	Clay	3			
242	248	Sand	3			
248	256	Clay	5			
256	260	Sand	2			
260	265	Clay	2			
265	265	Sand water		30	yes	
If more space is required use Sheet No. 2						

WELL DRILLERS STATEMENT

This well was drilled under my jurisdiction and the above information is true and correct to the best of my knowledge and belief.

Signed

R. E. Bally + Son

By

R. E. Bally

License No.

68

Dated March 11, 1955

Subscribed and sworn before me this day of 19

Notary Public

NOTARIZATION NOT NECESSARY
UNDER NEW LAW.

My Commission expires

Residing at

Well Driller *P. E. B. 36417*

Well Location 23 3 x 8, 24 1/2 ft

WELL LOG

[illegible]

GROUNDWATER THEORETICAL ANALYSIS

Well- 2N3W 23-04
in The SE NE S-23

FILE: 63-4799

DATE: 10-13-06

BY: DAN NELSON

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8 \times (HP) \times (EFF.))}{TDH}$

Q = CFS

HP = Total Brake Horsepower of pumping plant (including booster)

Eff. = Pumping plant efficiency (assume 70% or 0.70)

TDH = Total dynamic head = [(LIFT) + (PSI X 2.31)]

LIFT = Depth to water in FEET from land surface to pumping water level

PSI = Pumping pressure measured in PSI near pump (if open discharge assume [0])

$$Q = \frac{(8.8 \times (400 HP.) \times (0.70))}{[(387) + (62 PSI \times 2.31)]} = \frac{2464}{530.22} = 4.65 CFS$$

2086 gpm.

LIFT FROM:

Measurement ()

Owner ()

Area estimate ()

Well Logs (X)

Booster (Y) (N)

PSI FROM:

Measurement ()

Owner ()

Estimate ()

Owner Gage (X)

NOTES ON PUMP:

Motor Make, Serial or ID

Pump Make, Serial or ID, rating

REMARKS: The well log shows a pumpin static water level of 285 FT. with a drawdown of 102 FT. for a pumping level of 387 FT.

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Reclamation Engineer
within 30 days after completion or abandonment of the well.

1. WELL OWNER

Name Walter Russell
Address At Caldwell Idaho
Owner's Permit No. 63-7793

7. WATER LEVEL

Static water level 285 feet below land surface
Flowing? ☐ Yes ☐ No G.P.M. flow _____
Temperature _____ ° F. Quality _____
Artesian closed-in pressure _____ p.s.i.
Controlled by ☐ Valve ☐ Cap ☐ Plug

2. NATURE OF WORK

- ☐
- New well
- ☐
- Deepened
- ☐
- Replacement
-
- ☐
- Abandoned (describe method of abandoning)

8. WELL TEST DATA

☐ Pump ☐ Bailor ☐ Other

Discharge G.P.M.	Draw Down	Hours Pumped
<u>2530</u>	<u>102'</u>	<u>6</u>
<u>2060</u>	<u>297'</u>	<u>2</u>

3. PROPOSED USE

- ☐
- Domestic
- ☐
- Irrigation
- ☐
- Test
-
- ☐
- Municipal
- ☐
- Industrial
- ☐
- Stock

9. LITHOLOGIC LOG

038031

Hole Diam.	Depth		Material	Water	
	From	To		Yes	No
	290	294	Sand & Clay		
	294	308	Clay		
	308	309	Sand		
	309	316	Clay		
	316	327	Fine Brown Sand		
	327	333	Brown Tan Clay		
	333	340	Sandy textured clay		
	340	370	Fine Brown Sand		
	372	387	Clay		
	387	443	Sand		
	443	487	Clay		
	487	489	Sand		
	489	499	Clay		
	499	512	Sand		
	512	549	Clay		
	549	555	Sand		
	555	567	Clay		
	567	583	Sand		
	583	596	Clay		
	596	599	Sand		
	599	605	Clay		
	605	671	Sand		
	671	685	Clay		
	685	691	Sand		
	691	695	Clay		
	695	714	Sand		
	714	755	Clay		

4. METHOD DRILLED

- ☐
- Cable
- ☐
- Rotary
- ☐
- Dug
- ☐
- Other

5. WELL CONSTRUCTION

Diameter of hole _____ inches Total depth _____ feet

Casing schedule: ☐ Steel ☐ Concrete

Thickness	Diameter	From	To
.250 inches	16 inches	714 feet	734 feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was a packer or seal used? ☐ Yes ☐ No
Perforated? ☐ Yes ☐ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation _____ inches by _____ inches

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

Well screen installed? ☐ Yes ☐ No

Manufacturer's name _____

Type _____ Model No. _____

Diameter 16 Slot size 1/8 Set from 554 feet to 583 feet

Diameter 16 Slot size 1/8 Set from 604 feet to 714 feet

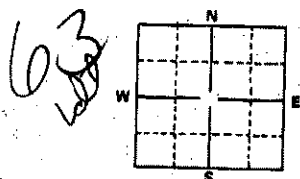
Gravel packed? ☐ Yes ☐ No Size of gravel _____

Placed from _____ feet to _____ feet

Surface seal? ☐ Yes ☐ No To what depth _____ feetMaterial used in seal ☐ Cement grout ☐ Puddling clay

6. LOCATION OF WELL

Sketch map location must agree with written location.



10.

Work started 8-18-73 finished 8-27-73

11. DRILLER'S CERTIFICATION

This well was drilled under my supervision and this report is
true to the best of my knowledge.

Driller's or Firm's Name _____ Number _____

Address _____

Signed By [Signature] Date 6 September 73County Canyon
SE 1/4 Sec. 23, T. 2, N. 4, R. 3 NW2W 3W
23-04
SE NE
285' static

GROUNDWATER THEORETICAL ANALYSIS

Well - 2W 3W-26-02 FILE: 63-4799

Located in The SENE S-26 DATE: 10-13-06

BY: DAN NELSON

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8 \times (HP) \times (EFF.))}{TDH}$

Q = CFS

HP = Total Brake Horsepower of pumping plant (including booster)

Eff. = Pumping plant efficiency (assume 70% or 0.70)

TDH = Total dynamic head = [(LIFT) + (PSI X 2.31)]

LIFT = Depth to water in FEET from land surface to pumping water level

PSI = Pumping pressure measured in PSI near pump (if open discharge assume [0])

$$Q = \frac{(8.8 \times (200HP) \times (0.70))}{[(265.7) + (62 \times 2.31)]} = \frac{1232}{408.92} = 3.01 \text{ CFS}$$

1352 gpm

LIFT FROM:

Measurement ()

Owner ()

Area estimate ()

Well Logs (X)

PSI FROM:

Measurement ()

Owner ()

Estimate ()

Owner Gage (X)

Booster (Y) (N)

NOTES ON PUMP:

Motor Make, Serial or ID

Pump Make, Serial or ID, rating

REMARKS: Well log shows a static water level
of 244 FT. Shaw Bendixson's study
shows an average drawdown of 21.7 feet.
244 FT + 21.7 FT = 265.7 FT Estimated
pumping level

RECEIVED
JUN 30 1966

REPORT OF WELL DRILLER
State of Idaho

Department of Geology

This report shall be filed with the State Department of Geology after completion or abandonment of the well.

Well Name: _____
Location: _____
Purpose: _____
Driller: _____
Date: _____

Size of drilled hole: 22 Total
Length of well: 750 Standing water
Level below ground: 244 Temp. _____
Rate of flow: _____ gpm
or _____ cfs Pump _____
Size of pump and motor used to make test: _____
Length of time of test: 15 hrs. 30 min.
Pressure down: _____ ft. Artesian pressure: _____
above land surface: _____
or _____ gpm. Shut-off pressure: _____
Controlled by valve _____ Plug _____
No control _____
No. of casing _____
Type _____

22 3w
26-2

5-24

244'
Static

Depth	Stratigraphic Unit	Water
0	Black lava rock - clay streaks	no
10	Black lava rock	no
20	Black lava rock	no
30	Black lava rock	no
40	Black lava rock	no
50	Black lava rock	no
60	Black lava rock	no
70	Black lava rock	no
80	Black lava rock	no
90	Black lava rock	no
100	Black lava rock	no
110	Black lava rock	no
120	Black lava rock	no
130	Black lava rock	no
140	Black lava rock	no
150	Black lava rock	no
160	Black lava rock	no
170	Black lava rock	no
180	Black lava rock	no
190	Black lava rock	no
200	Black lava rock	no
210	Black lava rock	no
220	Black lava rock	no
230	Black lava rock	no
240	Black lava rock	no
250	Black lava rock	no
260	Black lava rock	no
270	Black lava rock	no
280	Black lava rock	no
290	Black lava rock	no
300	Black lava rock	no
310	Black lava rock	no
320	Black lava rock	no
330	Black lava rock	no
340	Black lava rock	no
350	Black lava rock	no
360	Black lava rock	no
370	Black lava rock	no
380	Black lava rock	no
390	Black lava rock	no
400	Black lava rock	no
410	Black lava rock	no
420	Black lava rock	no
430	Black lava rock	no
440	Black lava rock	no
450	Black lava rock	no
460	Black lava rock	no
470	Black lava rock	no
480	Black lava rock	no
490	Black lava rock	no
500	Black lava rock	no
510	Black lava rock	no
520	Black lava rock	no
530	Black lava rock	no
540	Black lava rock	no
550	Black lava rock	no
560	Black lava rock	no
570	Black lava rock	no
580	Black lava rock	no
590	Black lava rock	no
600	Black lava rock	no
610	Black lava rock	no
620	Black lava rock	no
630	Black lava rock	no
640	Black lava rock	no
650	Black lava rock	no
660	Black lava rock	no
670	Black lava rock	no
680	Black lava rock	no
690	Black lava rock	no
700	Black lava rock	no
710	Black lava rock	no
720	Black lava rock	no
730	Black lava rock	no
740	Black lava rock	no
750	Black lava rock	no

Well # 198

JUN 30 1961

SHEET NO. 2

Department of Reclamation

Well Owner: Hatto Brothers

Well Driller: B & M Equipment Co., Inc.

Well Location: Canyon County

WELL LOG

From Feet	To Feet	Type of Material	Water-bearing Formation Lith. No. 1 to 10	Logging Perforated Line No. 1 to 10
390	390	Gray clay - sandy streaks		
400	400	Same		
410	410	Same		
420	420	Gray sandy clay		
430	430	Same - fine sand 3'		
440	440	Same		
450	450	Blue clay 6' - Sand streaks 4'		
460	460	Blue clay 7' - Sandy streaks 3'		
470	470	Fine sand 5' - Blue Clay 5'		
480	480	Blue Clay		
490	490	Blue shell or clay		
500	500	Yellow clay & blue clay		
510	510	Yellow clay & blue clay		
520	520	Blue Clay		
530	530	Fine Sand		
540	540	Blue shell & blue clay		
550	550	Blue shell - sandy		
560	560	Sandy blue clay & shell		
570	570	Sandy blue clay & yellow clay		
580	580	Sandy blue clay with yellow clay		
590	590	Very fine sand		
600	600	Sandy blue clay - white streaks		
610	610	Sandy blue & yellow clay		
620	620	Sandy yellow & blue clay		
630	630	Sandy yellow & blue clay		
640	640	Sandy yellow clay		
650	650	Same		
660	660	White sand stone & blue clay		

SHEET NO. 2

Well Owner

Well Driller

Well Location

WELL LOG

From Feet	To Feet	Type of Material	Water-bearing Formation And Year	Casing Perforated And Year
640	650	White sand stone - blue shell		
650	660	White sand stone - blue shell		
660	670	White sand stone		
670	680	Same		
680	690	Same & blue shell		
690	700	White & blue sand stone		
700	710	White sand stone		
710	720	White sand - very fine		
720	730	White sand stone - blue clay streaks		
730	740	White sand stone - blue shell streaks		
740	750	White sand stone - same		
750	760	Black lava sand streaks		
760	770	black lava rock - very hard		
770	780	Same		
780	784	Same		

Department of Agriculture

Name: John J. Smith

Address: 123 Main St, Springfield, Ill.

Owner: John J. Smith
Name: John J. Smith
New: ☒ Yes

Date: 10/10/1910
Applicant: John J. Smith

Witness: John J. Smith

Signature: John J. Smith

Witness: John J. Smith

Signature: John J. Smith

Witness: John J. Smith

Signature: John J. Smith

Witness: John J. Smith

Signature: John J. Smith

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Witness: John J. Smith

Signature: John J. Smith

Witness: John J. Smith

Signature: John J. Smith

20

Name: John J. Smith
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Name: John J. Smith
New: ☒ Yes

Date: 10/10/1910
Applicant: John J. Smith

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Signature: John J. Smith

Witness: John J. Smith

Signature: John J. Smith

Witness: John J. Smith

Signature: John J. Smith

Shane Bendixson study

WELL	SPECIFIC CAPACITY* & DISCHARGE	WELL OPENINGS	TOTAL DEPTH	SATURATED INTERVAL/ THICKNESS	K (ft/day)** T (ft ² /day)	STORAGE COEFFICIENT (estimated)	LITHOLOGY (water bearing zone)
02N-03W 22CAB1	21.7 1800 gpm	493-623'	645'	360-642' (282')	40 11,280	.2	BLACK SAND
02N-02W 31CBA1	12.6 1135 gpm	697-920'	920'	545-920' (375')	17 6,375	.007	CLAY, SILT & SAND
01N-03W 13AAA1	12.1 1800 gpm	442-607'	607'	207-522' (315')	18 5,670	.2	CLAY, SILT, SAND, & GRAVEL
01N-02W 29BAC1	9.7 730 gpm	413-433' 459-469' 479-489'	600'	370-496' (126')	59 7,434	.2	CLAY, SILT, & SAND
01N-02W 24AAB1	4.0 682 gpm	459-522' 561-599'	608'	459-549' (140')	12 1,680	.0003	BLUE CLAY & SAND
01N-02W 14DAD1	380 1895 gpm	30-184'	184'	130-184' (54')	1900 102,600	.2	BASALT CINDERS, SAND, & GRAVEL

* gallons per minute per foot of drawdown

** K = Hydraulic Conductivity, T = Transmissivity

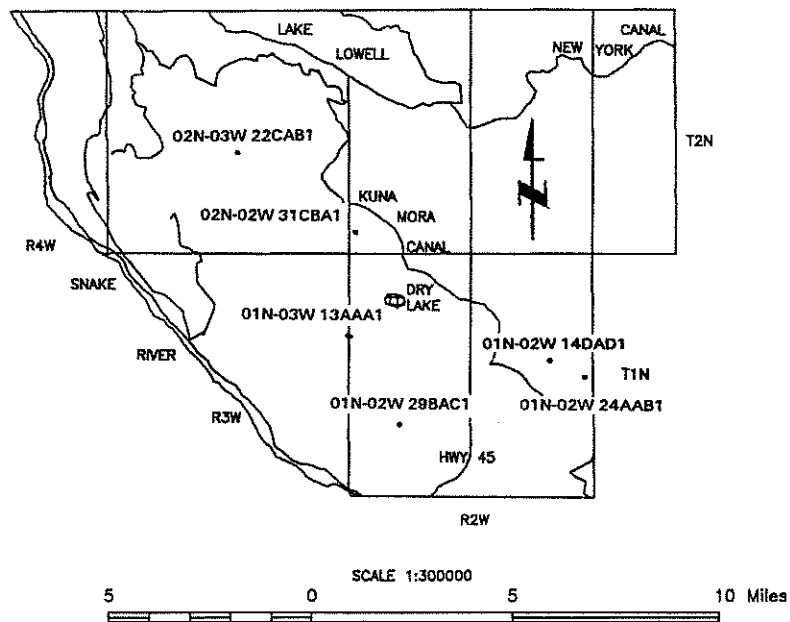


Figure 4. Well Hydraulic Data

RECEIVED
APR 2 1964

WELL LOG AND REPORT OF THE
STATE RECLAMATION ENGINEER OF IDAHO

Department of Reclamation

034926

Permit No. 20905 Well No. 1 County Ben

Owner Walt Russell

Address Nampa Idaho

Driller Holloway Drilling Co.

Address Ontario Ore

Well location SE 1/4 NW 1/4 Sec. 22 T. 3 N. 1/4 R. 5W 1/4

LOCATION CHANGED SE 1/4 SW 1/4 SAME SECTION

Size of drilled hole 16"

Sixteen inch all way Total depth of well 610

Give depth to standing water from the ground 395 Water temp. 68° Fahr.

On "Pumping Test" delivery was 1800 g.p.m. or c.f.s. Drawdown was 65 feet.

Size of pump and motor used to make test 10" pump 1/2" Bore 300 HP Twin Perisals

Length of time of test 8 hours minutes.

If flowing well, give flow c.f.s. or g.p.m. and of shut off pressure

If flowing well, described control works

Water will be used for Irrigation (TYPE AND SIZE OF VALVE, ETC.)

Thickness of casing 1/4 Casing material Steel Weight of casing per lineal foot 42 #

Diameter, length and location of casing -1 to 581 (STEEL, CONCRETE, WOOD, ETC.)

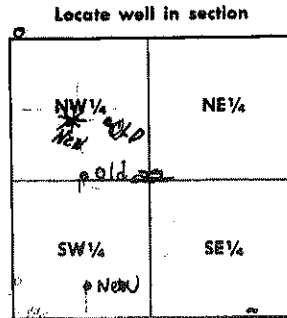
CASING RECORD

Diam. Casing	From Feet	To Feet	Length	Remarks—seals, grouting, etc.
160R	-1	581	582	

Number and size of perforations 3/16" X 1" 660 located 405 feet to 420 feet from ground

Date of commencement of well 2-10-64 Date of completion of well 3-30-64

SE NW S. 22 2 N 3 W



now own
2N 3W.
22-3
SE SW
S-22
395' static.

WELL LOG

From Feet	To Feet	Type of Material	Water-bearing Formation Ans. Yes or No	Casing Perforated Ans. Yes or No
0	4	TOPSOIL		
4	9	HARD PAN CLAY		
9	17	CLAY GRAVEL imbedded		
17	97	Cinders BLACK BROWN Red		
97	160	CLAY with Boulders		
160	304	White FINE SAND DRY		
204	228	White CLAY		
228	324	SAND COARSE Yellow		
324	334	white CLAY		
334	348	BLUE + BLACK CLAY		
348	362	SAND BROWN		
362	405	CLAY white + BLUE		
405	420	SAND COARSE Grey WATER.		
420	447	SAND ROCK		
447	578	SAND Grey medium WATER.		
578	610	CLAY Blue DRY		
If more space is required use Sheet No. 2				

WELL DRILLER'S STATEMENT

This well was drilled under my supervision and the above information is true and correct to the best of my knowledge and belief.

Signed Halloway Drilling Co.
By May Halloway

Dated 4-1 1964

License No. 132

PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 10/13/2006

FILE NUMBER 63-4799



WELL – 2N 3W 22-01



ABANDONED – NOW A DOMESTIC WELL



WELL – 2N 3W 22-3



WELL - 2N 3W 22-4



WELL – 2N 3W 22-5



WELL - 2N 3W 22-6



This is the pressure gauge for 22-6 showing 62 psi on the system

PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 10/13/2006

FILE NUMBER 63-4799



WELL - 2N 3W 23-1



WELL - AOOOO434 NENW S23



WELL - 2N 3W 23-4



WELL - 2N 3W 23-3



WELL - 2N 3W 26-2

FIELD NOTES

SURFACE WATER (SAVAK RIVER)
 Can Run 2d wheel lines 2 Hand Lines
 32 SPRINKLER LINE 9/14 NOZZLES @ 70PSI
 ADDITIONAL INFORMATION NEEDED FOR IRRIGATION FIELD EXAMS

Field Examiners, please complete the following checklist. Mark "unknown" or N/A if information doesn't apply or information is unavailable.

PLEASE ANSWER QUESTIONS ON PAGE 2!!!!!!!!!!!!!!!!!!!!

1.) Pump information:

60PSI and 15
 at wells

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size	Lift	Pressure	Comments
2N3W42-1	Hollander 5hp	200HP	115141000	LAYNO 3000A	1400 GPM 50 25241	N/A	60PSI	1/2 mile W of shop
Domestic pump	N/A		NO LONGER A	used for irrigation				
2N3W42-3	N/A	250		well L.A.O		420		SESE 5-22
22-4	Geo Elmer	450	5K6325K	LAUNCH PUMP	44911	Probe		SESE 5-22
22-5	US Elect Highflow	300	4471441	LAUNCH PUMP	6" Discharge	384		SESE 5-22
22-6	GEN Elect	200	5K13344008	LAUNCH PUMP	UTP 11719	Probe	47PSI	SESE 5-22
23-1	US Motors	300	00700005	LAUNCH PUMP	3867	Probe	47PSI	SESE 5-22
NENW Well	N/A		PUMP	Replaced in 1997's				SESE 5-22
23-4	GEN Elect	400HP	447833002	LAUNCH PUMP	306143	Well	47PSI	SESE 5-22
23-3	US Elect Highflow	250	A-255-01-84	LAUNCH PUMP	N/A	Probe	47PSI	SESE 5-22

2N2 - NOLLOWS
 500HP - 136751 - 500000' 8005 - 12ACAB 1821 WARE DOG

RIVER SYSTEM
 12 kg pumps

IT IS THE COUNTY

CANYON COUNTY TAXLOT.

Nampa Hwy
Dist TO
CANYON
CO.

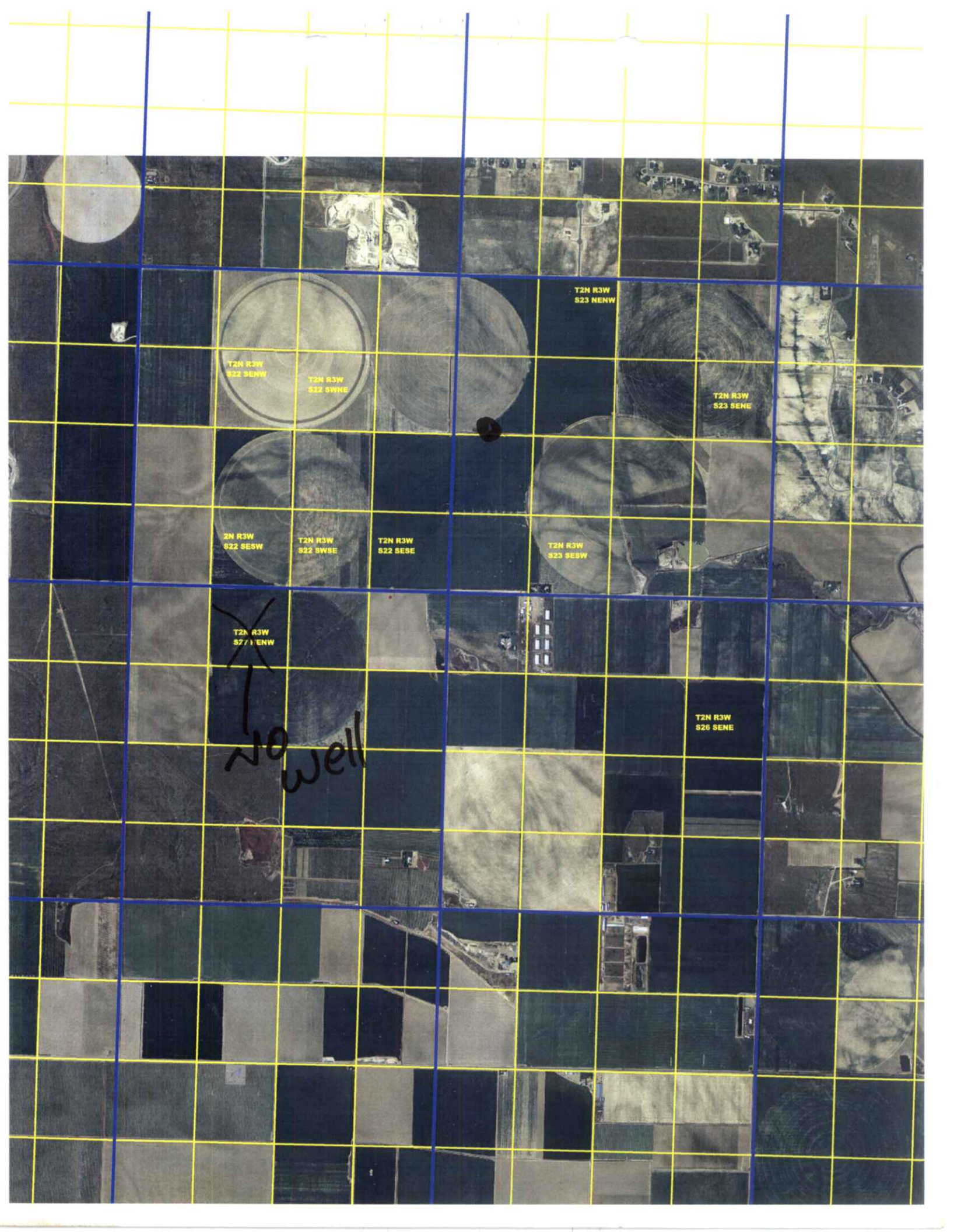
T2N R3W
S23 SWSE

T2N R03W
S23 SESE



LOT 3

**T1N R3W
S16 NWNW**



T2N R3W
S22 SENW

T2N R3W
S22 SWNE

2N R3W
S22 SESW

T2N R3W
S22 SWSE

T2N R3W
S22 SESE

T2N R3W
S23 S

T2N R3W
S27 NENW

Center
West

1500-
1800 ft

250 ft

2000
Now
Dewar
3/4 mile
on
mis.

1/2 mi
west
shop
on
misary

2N 3W
220
2N 3W
220
2206

1

T2N R3W
S23 NENW

open
250HP.

T2N R3W
S23 SENE

3
2301

2304

T2N R3W
S23 SESW

22
32
03
03

T2N R3W
S26 SENE

2N R3W
S22 SESW

T2N R3W
S22 SWSE

T2N R3W
S22 SESE

T2N R3W
S27 NENW

NO
DUMP

3W
ESE

T2N R3W
S23 SESW

T2N R3W
S26 SENE

116
2N36
2602