

14N

19E 90SENE $\frac{1}{4}$

SEC 33 N. 89°53'W.

40.12

93

N. 89°52'W.

20.06

N. 89°52'W.

20.06

18.58

37.29

40.02

N. 0°19'E.

19.98

SEE
ENLARGED
DIAGRAM

1.45

2

N. 89°57'W.

20.09

40.18

N. 0°19'E.

20.01

N. 0°25'E.

20.02

* PD

Sec. 33

20.12

20.12

WEST

80.51

RECORDED

APR 20 1994

No Gov
Lots

N. 0°42'E.

40.16

5'E.

20

١٢١

Sec. 21

Sec. 24

Sec. 22

1893

14N
19E
S32

NEEN
SEEN

Sec. 28

Sec. 27

NO GOD
LOTS

Sec. 36

Sec. 37

Sec 32

Sec. 33

Sec. 34

5.89.48'W.

80.88

79189

Retraced --- ---
5.89' 46" W. 20.89'

APR 20 1994

n

0

0

r

d

Q

4)

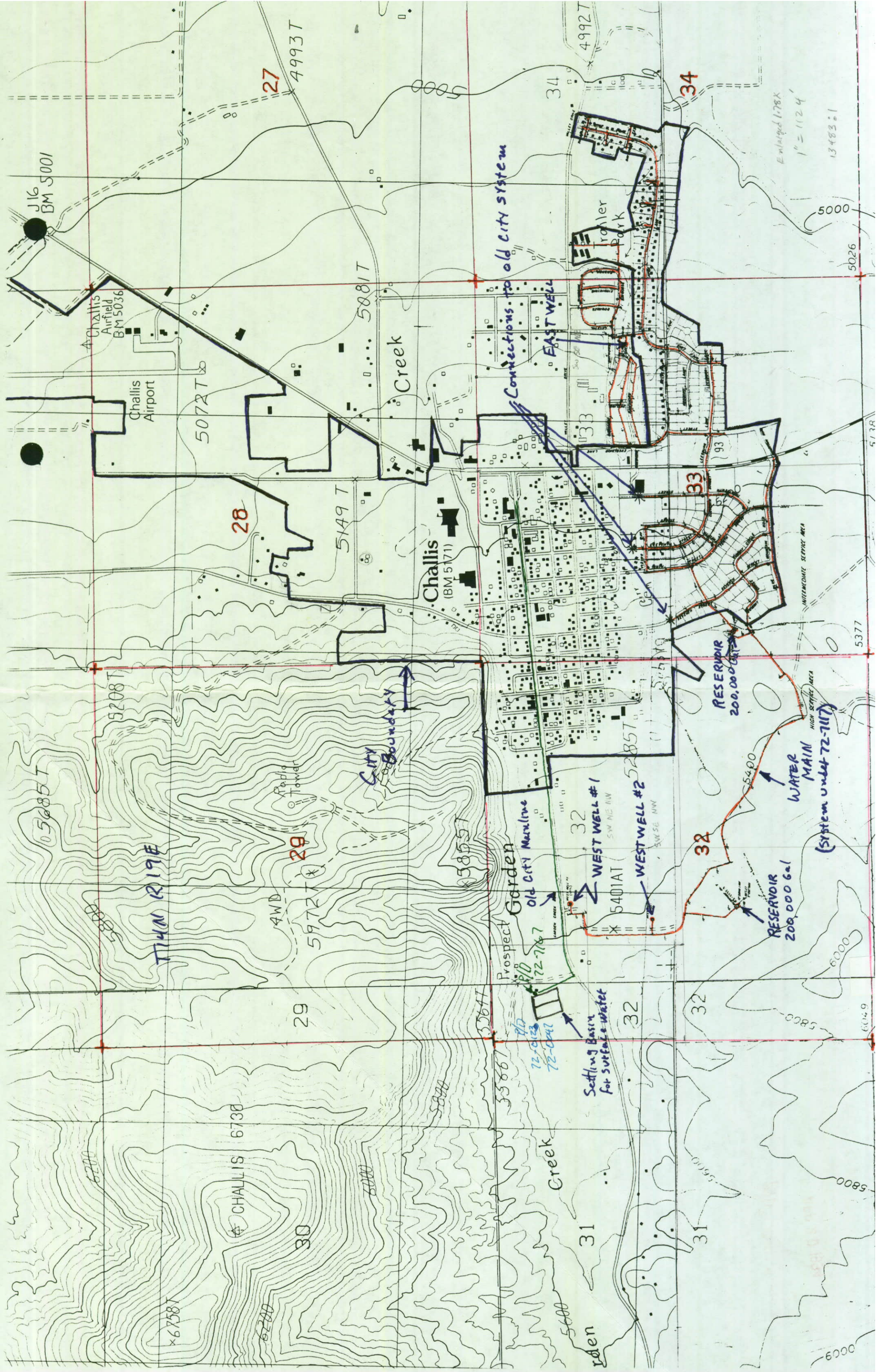
...

	1077	C	1
--	------	---	---

Group

Amount of Surveys

When Surveyed



TWIN RIVER

City Boundary

Prospect Garden
Old City Mainline

Settling Basin
for surface water

WEST WELL #1
WEST WELL #2

RESERVOIR
200,000 gal

RESERVOIR
200,000 gal

WATER MAIN
(System under 72-1117)

Connections to old city system
EAST WELL

Enlarged 1.78X
1" = 112.4'
13483:1

Form 219
6/86

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

1. Owner: City of Challis Permit No. 72-7167
Current Address: _____ Phone No. _____
2. Accompanied by: Rob Taylor EXAM. DATE: 7/29/87
Address: _____ Phone No. _____
Relationship to Permit Holder: _____
3. Source: groundwater tributary to ✓

B. OVERLAP REVIEW

1. Other water rights with same place of use: 72-0047, 72-7167, 72-7117
72-0123 ☐ Copies Attached
2. Other water rights with same point of diversion: no
☐ Copies Attached ☐ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

1. Diversion System Diagram: Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. ☐ Alternative diagram attached



Scale: 1" = _____

2. ☐ Copy of U.S.G.S. Quadrangle Attached
Showing location(s) of point(s) of diversion and
place(s) of use (required).

☒ Photo of Diversion and System Attached
(required for all but single household domestic groundwater, and stockwater).

☐ Aerial Photo Attached
(required for irrigation of 10 acres or more).

APR 20 1994

System Description (continued)

3. Narrative: Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

Water is pump from well in to water house then diverted into City main.

Well was drilled by Jack Casper Drill Motor installed by Ag. Service of Blackfoot, Ida

☐ See Remarks on page 4 for continuation

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	Jacuzzi	20	2056215		

*Code to correspond with No. on map and aerial photo

5. Point(s) of Diversion:

Ident. No.	Gov't. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
					32	14N	19E	Butte	

6. Place(s) of Use:

Indicate Method of Determination

			Indicate Method of Determination																
Twp.	Rge.	Sec.	NE¼				NW¼				SW¼				SE¼				Totals
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
14N	19E	32	X			X													
		33					X	X	X	X		X							
Q = City of Phillips																			

City of Challis

Do not use this space

APR 20 1964

H. REMARKS AND OVERLAP REVIEW ANALYSIS

PM within city of Challis, Idaho

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afs)
	From	To		
<u>Municipal</u>	<u>1-1</u>	<u>12-31</u>	<u>0.38</u>	<u>N/A</u>
Totals:			<u>0.38</u>	<u>N/A</u>

2. Recommended Amendments

- ☐ Change P.D. as reflected above
☐ Change P.U. as reflected above

- ☐ Add P.D. as reflected above
☐ Add P.U. as reflected above

- ☒ None
☐ Other

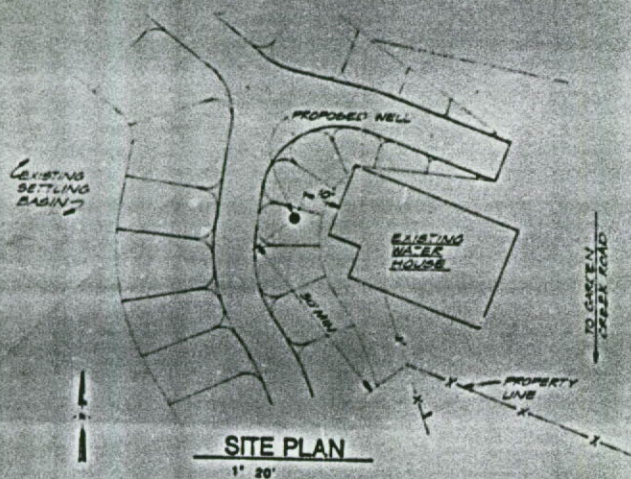
J. AUTHENTICATION

Field Examiner's Name Greg Funderburg
 Signature Greg Funderburg
 Certification Date 5/15/87
 Field Report Preparation Date 7/30/87



K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.

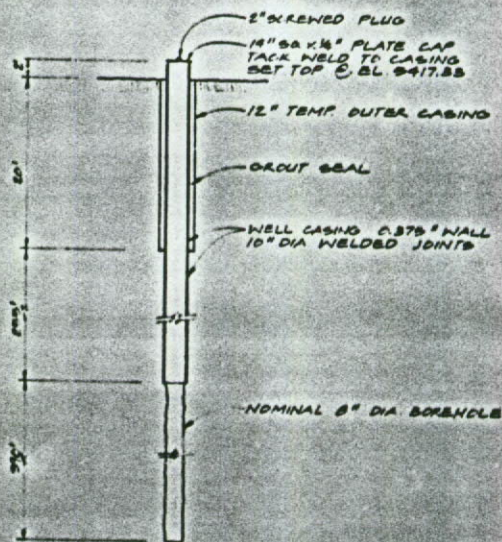
APR 20 1994



0' - 6"	TOP SOIL
6" - 24'	TAN, SILTY SAND, GRAVEL & COBBLESTONE
24' - 72'	DARK TAN SILTY SAND, GRAVEL & COBBLESTONE
72' - 105'	BROKEN ROCK
105' - 217'	SOLID ROCK - RED
217' - 291'	GRAY - BLACK ROCK
291' - 370'	RED ROCK
370' - 430'	DARK GREEN ROCK
430' - 620'	SOFT RED ROCK
620' - 660'	DARK GRAY OR BLACK ROCK

NOTE: LOCATION IS 1/4 NW 1/4 SEC 32 T14N R12E (NEAR WELL #1)

EXISTING WELL LOG



WELL DETAIL

NTS

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING

CITY OF CHALLIS, IDAHO
WATER SYSTEM IMPROVEMENTS

WEST WELL NO. 2

APR 20 1994



VICINITY MAP

0 1/4 1/2 3/4 1 mile
Scale

T14N
R-19E



SITE PLAN

1" = 20'

0
6"
34"
92"
162"
217"
291"
390"
480"
525"
NETE
LOCAL
(NBS)



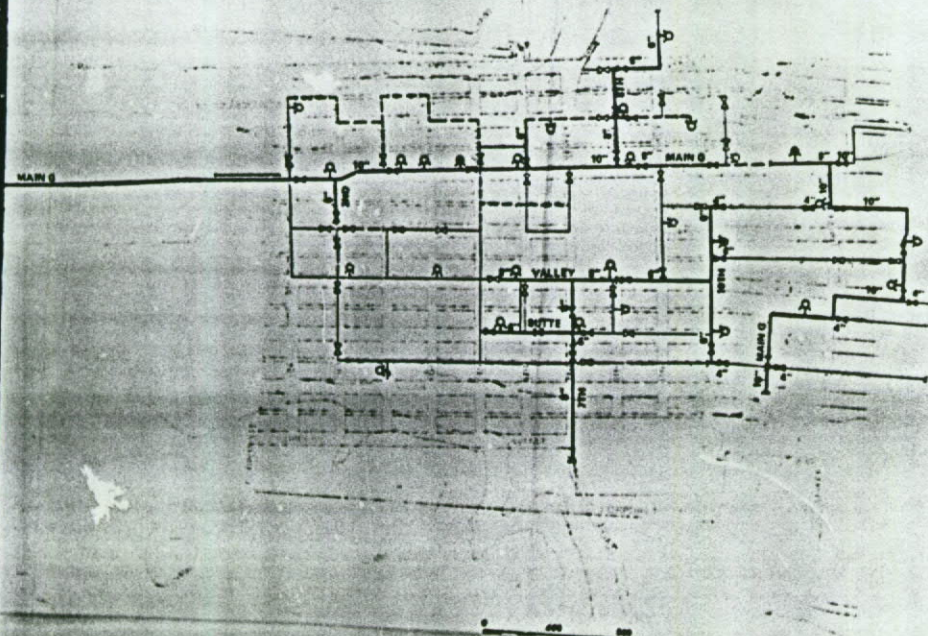
CH2M
CITY OF CHALLIS, IDAHO
WATER SYSTEM IMPROVEMENTS

VERTICAL SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING

CITY OF CHALLIS, IDAHO
WATER SYSTEM IMPROVEMENTS

APPROVED

APR 20 1994

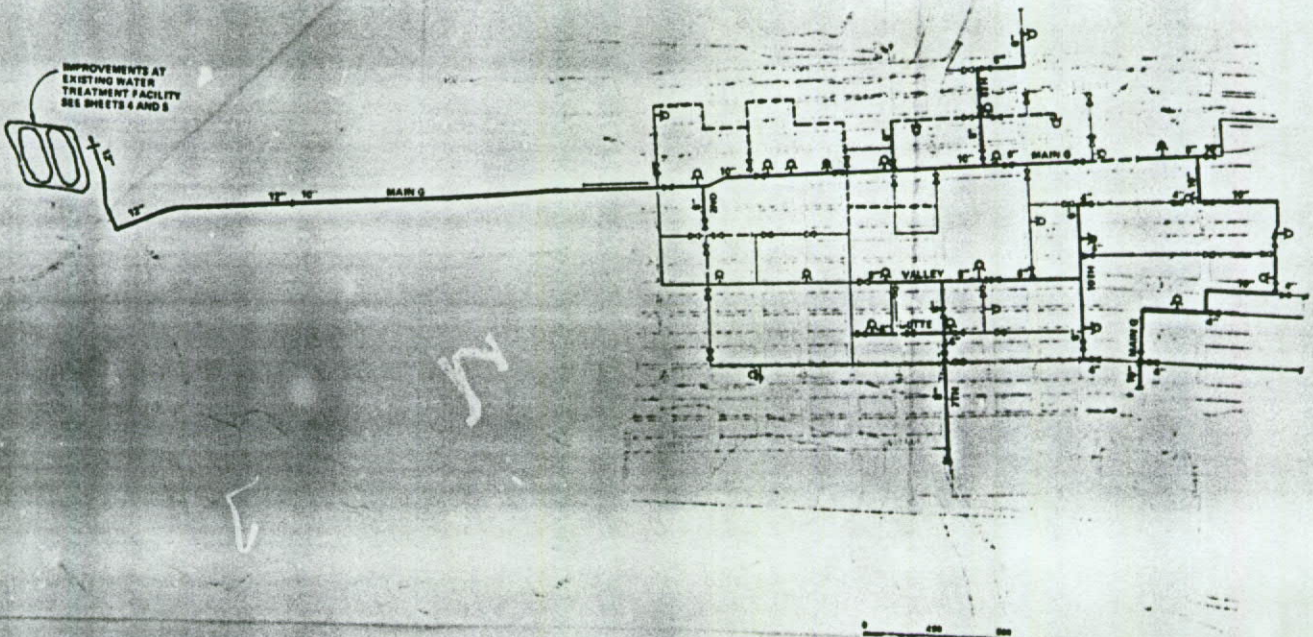


- NOTE**
 INFORMATION ON LOCATION
 OF EXISTING LINES AND VALVES
 OBTAINED FROM CITY RECORDS
 SUPPLEMENTED BY SURFACE
 OBSERVATION AND IS SHOWN
 FOR GENERAL INFORMATION
 ONLY. ONLY LINES FOUR INCHES
 AND LARGER ARE SHOWN.
- EXISTING LINE AND VALVE TO BE RETAINED
 - - - PHASE II PROPOSED CONSTRUCTION (PHASE II)
 - - - PHASE I CONSTRUCTION AND NEW VALVE
 - PHASE I NEW FIRE HYDRANTS
 - EXISTING FIRE HYDRANTS TO BE RETAINED

REPRODUCTION

APR 20 1994

IMPROVEMENTS AT
EXISTING WATER
TREATMENT FACILITY
SEE SHEETS 4 AND 5



MICROFILMED

APR 20 1994

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

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

USE TYPEWRITER OR
BALLPOINT PEN

RECEIVED

1. WELL OWNER Name <u>CYRUS MINES CORP.</u> Address Box 755 <u>CHALLIS, IDAHO 83226</u> Owner's Permit No. <u>72-7117</u>	7. WATER LEVEL Static water level <u>157</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																																																				
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning)	8. WELL TEST DATA ☒ Pump ☐ Bailor ☐ Air ☐ Other <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Discharge G.P.M.</th> <th>Pumping Level</th> <th>Hours Pumping</th> </tr> </thead> <tbody> <tr> <td>75</td> <td>157.25'</td> <td>23 MIN.</td> </tr> <tr> <td>145</td> <td>160.69</td> <td>16 MIN.</td> </tr> <tr> <td>220</td> <td>162.84</td> <td>45 MIN.</td> </tr> </tbody> </table>	Discharge G.P.M.	Pumping Level	Hours Pumping	75	157.25'	23 MIN.	145	160.69	16 MIN.	220	162.84	45 MIN.																																								
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3. PROPOSED USE ☐ Domestic ☐ Irrigation ☐ Test ☒ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection (specify type) ☐ Other	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 rowspan="2">Water Yes No</th> </tr> <tr> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>12"</td> <td>0</td> <td>19</td> <td>GRAVEL, COBBLESTONES & BOULDERS MIXED IN TAN SANDY SILT</td> <td>X</td> </tr> <tr> <td>12"</td> <td>19</td> <td>47</td> <td>SAME, MIXED IN TAN CLAYEY SILT & SILTY CLAY</td> <td>X</td> </tr> <tr> <td>12"</td> <td>47</td> <td>177</td> <td>COARSE GRAVEL & COBBLES IN TAN SILTY SAND</td> <td>X</td> </tr> <tr> <td>12"</td> <td>177</td> <td>240</td> <td>CLEANER COARSE GRAVEL & COBBLESTONES, TAN SAND, SOME QUITE SILTY WATER</td> <td>X</td> </tr> <tr> <td>12"</td> <td>240</td> <td>249</td> <td>CLEANER COARSE SAND & GRAVEL WITH SEAMS OF TAN CLAY</td> <td></td> </tr> <tr> <td>12"</td> <td>248</td> <td>270</td> <td>COARSE CLEAN SAND & GRAVEL, MORE WATER (BLOWING 200 GPM FROM 257')</td> <td>X</td> </tr> <tr> <td>12"</td> <td>270</td> <td>290</td> <td>COARSE GRAVEL, SILTY SAND, SEAMS OF LIGHT TAN CLAY</td> <td></td> </tr> <tr> <td>12"</td> <td>290</td> <td>297</td> <td>BROKEN ROCK, PREDOMINATLY RED.</td> <td></td> </tr> <tr> <td>12"</td> <td>297</td> <td>341</td> <td>SOLID ROCK, PREDOMINATLY RED</td> <td></td> </tr> </tbody> </table>	Hole Diam.	Depth		Material	Water Yes No	From	To	12"	0	19	GRAVEL, COBBLESTONES & BOULDERS MIXED IN TAN SANDY SILT	X	12"	19	47	SAME, MIXED IN TAN CLAYEY SILT & SILTY CLAY	X	12"	47	177	COARSE GRAVEL & COBBLES IN TAN SILTY SAND	X	12"	177	240	CLEANER COARSE GRAVEL & COBBLESTONES, TAN SAND, SOME QUITE SILTY WATER	X	12"	240	249	CLEANER COARSE SAND & GRAVEL WITH SEAMS OF TAN CLAY		12"	248	270	COARSE CLEAN SAND & GRAVEL, MORE WATER (BLOWING 200 GPM FROM 257')	X	12"	270	290	COARSE GRAVEL, SILTY SAND, SEAMS OF LIGHT TAN CLAY		12"	290	297	BROKEN ROCK, PREDOMINATLY RED.		12"	297	341	SOLID ROCK, PREDOMINATLY RED	
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4. METHOD DRILLED ☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other	10. Work started <u>12-1-80</u> finished <u>1-12-81</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>12" inches</td> <td>22" inches</td> <td>249 feet</td> </tr> <tr> <td>250 inches</td> <td>10-3/4 inches</td> <td>266'9" inches</td> <td>341 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 perforations From To perforations feet feet perforations feet feet perforations feet feet Well screen installed? ☒ Yes ☐ No Manufacturer's name <u>JOHNSON CONTINUOUS WIRE WOUND</u> Type <u>304 STAINLESS STEEL</u> Model No. <u>TELESCOPE</u> Diameter <u>12"</u> Slot size <u>250</u> Set from <u>24'16"</u> feet to <u>266'9"</u> feet Diameter Slot size Set from Set to Gravel packed? ☐ Yes ☒ No ☐ Size of gravel Placed from feet to feet Surface seal depth <u>18'</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 Weld ☐ Cemented between strata Describe access port <u>SANITARY WELL SEAL & BUILT IN ACCESS PORT</u>	Thickness	Diameter	From	To	250 inches	12" inches	22" inches	249 feet	250 inches	10-3/4 inches	266'9" inches	341 feet	11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>LIBERTY DRILLING CO.</u> Firm No. <u>302</u> Address <u>Box 407, CHALLIS, ID.</u> Date <u>2-3-81</u> Signed by (Firm Official) <u>Bill Liberman</u> and <u>Bill Liberman</u> (Operator)																																								
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6. LOCATION OF WELL Sketch map location must agree with written location. N <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%; text-align: center;">W</td> <td style="width:25%; text-align: center;">33</td> <td style="width:25%; text-align: center;">X</td> <td style="width:25%; text-align: center;">E</td> </tr> <tr> <td style="text-align: center;">S</td> <td colspan="3"></td> </tr> </table> Subdivision Name <u>EAST ADDITION</u> Lot No. Block No. County <u>CUSTER</u> SE 1/4 NE 1/4 Sec. 33 T. 14N N.S.R. 19E E.W.	W	33	X	E	S				USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT																																												
W	33	X	E																																																		
S																																																					

FEB 6 1981

DEPARTMENT OF WATER RESOURCES

RECEIVED

APR 24 1981
EAST IDAHO
WELL



Pumphouse Interior
East Well



Reservoir

200,000 Gallon
Reservoir in Sec 33

A similar reservoir is
located in sec 32

72-7117

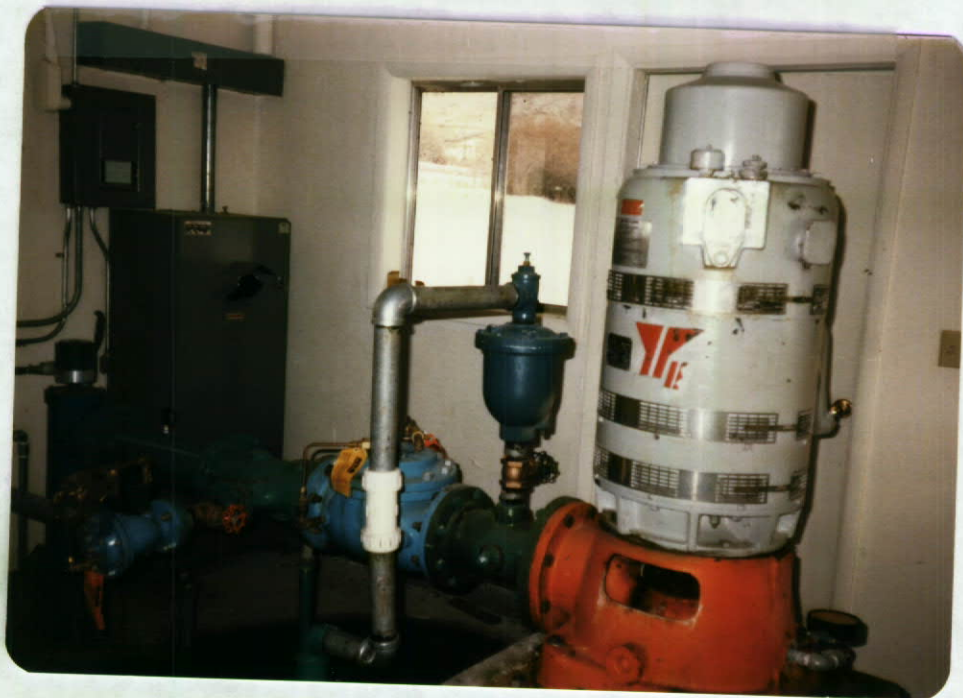
RECEIVED 1994

APR 20 1994



Pumphouse Interior
West Well #1

Note flow recording
Device on fat wall



Pumphouse Interior
West Well #2

RECEIVED

APR 20 1994

72-7117

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

WATER RIGHT NO. 72-07117

Priority: January 19, 1981

Maximum Diversion Rate: 2.73 CFS

Maximum Diversion Volume: 1925.5 AF

This is to certify, that CITY OF CHALLIS
PO BOX 587

CHALLIS ID 83226

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated January 19, 1981; and has submitted Proof of Beneficial Use on July 5, 1983. An examination indicates that the works have a diversion capacity of 2.730 cfs of water from a GROUNDWATER source, and a water right has been established as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
MUNICIPAL	01/01 to 12/31	2.73 CFS	1925.5 AF

LOCATION OF POINT(S) OF DIVERSION:

SWNENW , Sec. 32, Township 14N, Range 19E
SWSENW , Sec. 32, Township 14N, Range 19E
SWSENE , Sec. 33, Township 14N, Range 19E
CUSTER County

PLACE OF USE: See Remarks

CONDITIONS/REMARKS:

1. The maximum diversion volume is defined as the maximum allowable volume of water that may be diverted annually from the source under this right. The use of water confirmed by this right is limited to the amount which can actually be beneficially used. The maximum diversion volume may be adjusted to more accurately describe the beneficial use or to implement accepted standards of diversion and use efficiency.
2. This water right is appurtenant to the described place of use.
3. This right is subject to all prior water rights and may be forfeited by five years of non-use.
4. Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho law.
5. Municipal use is within the city limits of Challis.

This license is issued pursuant to the provisions of Section 42-219, Idaho Code. Witness the seal and signature of the Director, affixed at Boise, this 9th day of April, 1994.

Acting for R. Keith Higginson, Director

APR 20 1994

APPROVED

State of Idaho
Department of Water Resources

APPLICATION FOR AMENDMENT
(For Licensing Purposes)
WATER RIGHT NO. 72-07117

RECEIVED
MAR 07 1994
Department of Water Resources

Date of Priority: January 19, 1981

Maximum Diversion Rate: 2.73 CFS
Maximum Diversion Volume: 1925.5 AF

Comes now
PO BOX 587
CHALLIS ID 83226

CITY OF CHALLIS

and represents to the Director of the

Idaho Department of Water Resources:

That he is the owner and holder of Permit to appropriate the Public Waters of the State of Idaho No. 72-07117, and requests that the permit be changed as follows:

Source: GROUNDWATER

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
MUNICIPAL	01/01 to 12/31	2.73 CFS	1925.5 AF

LOCATION OF POINT(S) OF DIVERSION:

SWNENW , Sec. 32, Township 14N, Range 19E
SWSENW , Sec. 32, Township 14N, Range 19E
SWSENE , Sec. 33, Township 14N, Range 19E
CUSTER County

PLACE OF USE: See Remarks

Permit holder asserts that no one will be injured by such change and that such change will be made at permit holder's own risk.

Signed at Challis, this 1 day of March, 1994.

APR 20 1994

(Signature)

State of Idaho
Department of Water Resources

APPLICATION FOR AMENDMENT
(For Licensing Purposes)
WATER RIGHT NO. 72-07117

FOR DEPARTMENT USE ONLY

Preliminary check by BA Fee = 20⁰⁰ Receipted by dw # C029748 Date 3/7/94

ACTION OF THE DEPARTMENT OF WATER RESOURCES

I, R. Keith Higginson, of the Department of Water Resources hereby approve the
above Application for Amendment for Permit No. 72-07117 with the following;

CONDITIONS/REMARKS:

1. The maximum diversion volume is defined as the maximum allowable volume of water that may be diverted annually from the source under this right. The use of water confirmed by this right is limited to the amount which can actually be beneficially used. The maximum diversion volume may be adjusted to more accurately describe the beneficial use or to implement accepted standards of diversion and use efficiency.
2. This water right is appurtenant to the described place of use.
3. This right is subject to all prior water rights and may be forfeited by five years of non-use.
4. Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho law.
5. Municipal use is within the city limits of Challis.

Witness my hand this 9TH day of April, 1994.

Acting for

R. Keith Higginson, Director

RECEIVED
APR 20 1994

WATER RIGHT SUMMARY

ACTION	RIGHT NO.	NAME	AMOUNT CFS
Original Permit	72-7117	Cyprus Mines Corp.	6.0
Full Assignment	72-7117	City of Challis	6.0

MICROFILMED

State of Idaho
Department of Water Resources

RECEIVED
MAY 28 1986

ASSIGNMENT OF PERMIT

Department of Water Resources

I, Cyprus Mines Corporation, hereby assign to City of Challis
of Challis, Idaho Address _____

CHECK ONE

☒ All my right, title, and interest in and to Permit No. 72-7117
to appropriate the public waters of the State of Idaho.

☐ The following described portion of my right, title, and interest in and to Permit
No. _____ to appropriate the public waters of the State of Idaho.

(Describe that portion of the permit being assigned by listing the acreage within
each 40 acre subdivision, the point of diversion and the amount of water in cubic
feet per second for direct diversion, or acre feet for storage)

Made this 21st day of May, 1986.

Alex R. Jacobs
Permit Holder

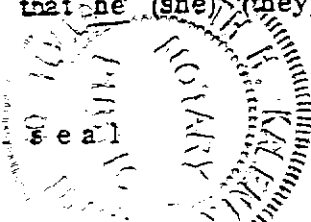
Alex R. Jacobs

Spouse of Permit Holder

State of Idaho)

County of Custer) ss.

On this 21st day of May, 1986, personally
appeared before me the signer(s) of the above instrument, who duly acknowledged to me
that he (she) (they) executed the same.



Ruth N. Kalenik
Notary Public residing at

Clayton, Idaho 83227

My commission expires:

March 17, 1992

2025 RELEASE UNDER E.O. 14176

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

Ident. No. 72-7117
RECEIVED
JAN 19 1981
APPROVED
Department of Water Resources
Southern District Office

To appropriate the public waters of the State of Idaho

1. Name of applicant Cyprus Mines Corporation Phone (208) 879-4325

Post office address P.O. Box 755, Challis, Idaho 83226

2. Source of water supply Underground which is a tributary of _____

3. Location of point of diversion is SE $\frac{1}{4}$ of NW $\frac{1}{4}$ of Section 32 Township 14 N

Range 19 E B.M. Custer County, additional points of diversion if any: _____

NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 32 and SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 33, T. 14 N, R. 19 E

4. Water will be used for the following purposes:

Amount 1.2 for Domestic purposes from Jan. 1 to Dec. 31 (both dates inclusive)
(cfs or acre-feet per annum)

Amount 0.5 for Commercial purposes from Jan. 1 to Dec. 31 (both dates inclusive)
(cfs or acre-feet per annum)

Amount 4.3 for Lawn Watering and Irrigation purposes from Apr. 1 to Nov. 1 (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

5. Total quantity to be appropriated:

a. 6.0 cubic feet per second and/or b. _____ acre-feet per annum.

6. Proposed diverting works:

a. Description of ditches, flumes, pumps, headgates, etc. Water to be derived from wells
equipped with pumps and transmitted to storage facilities and places of use via
pipeline.

b. Height of storage dam _____ feet, active reservoir capacity _____ acre-feet; total reservoir
capacity _____ acre-feet, materials used in storage dam: _____

Period of year when water will be diverted to storage _____ to _____ inclusive.
(Month/Day) (Month/Day)

c. Proposed well diameter is *See remarks inches; proposed depth of well is _____ feet.

7. Time required for the completion of the works and application of the water to the proposed beneficial
use is 5 years (minimum 1 year — maximum 5 years).

8. Description of proposed uses:

a. If water is not for irrigation: *See remarks and map
(1) Give the place of use of water: _____ $\frac{1}{4}$ of _____ $\frac{1}{4}$ of Section _____ Township _____
Range _____ B.M. _____

(2) Amount of power to be generated: _____ horsepower under _____ feet of head.

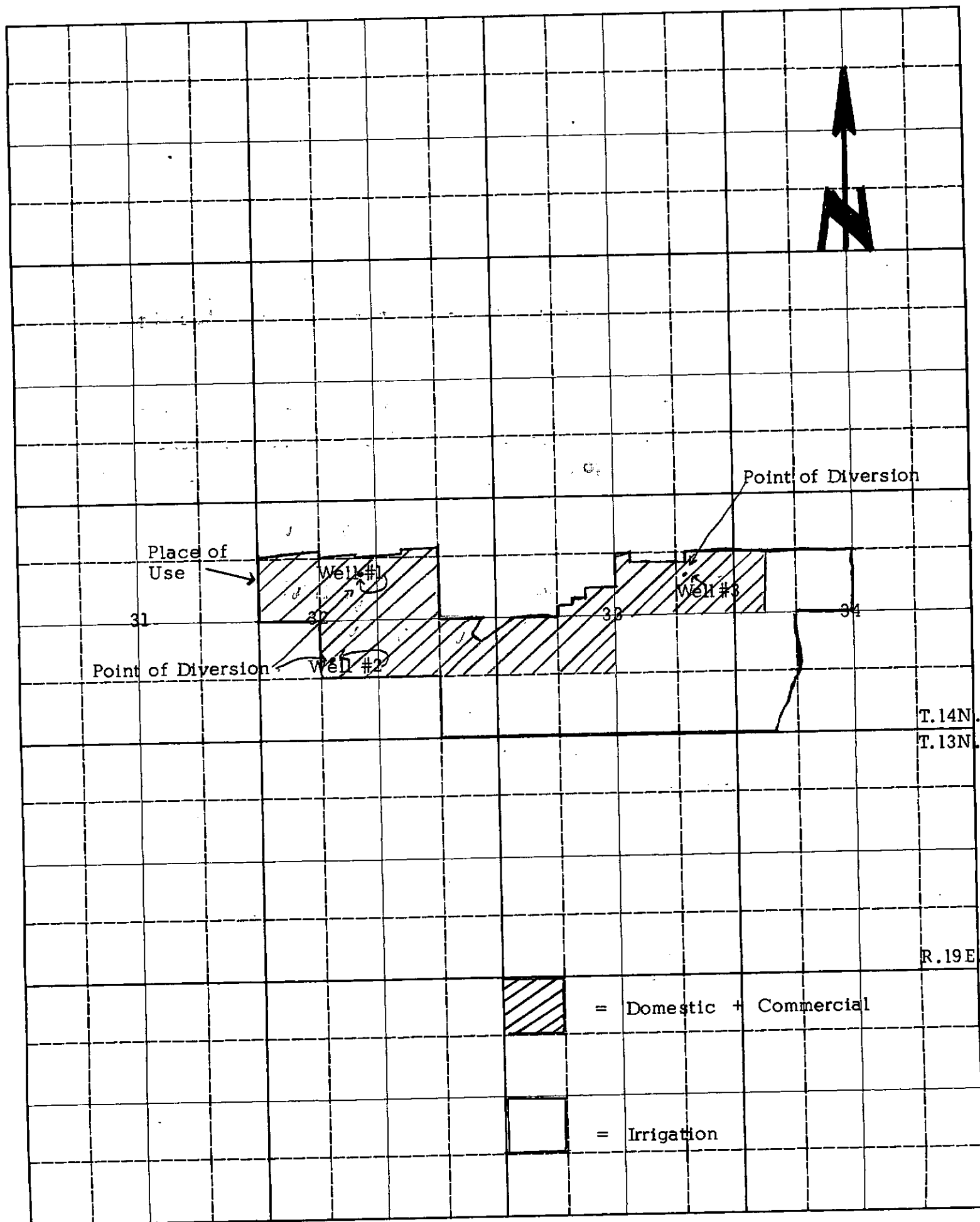
(3) List number of each kind of livestock to be watered _____

(4) Name of municipality to be served _____, or number of families to be
supplied with domestic water 800.

(5) If water is to be used for other purposes describe: 50 varied commercial units, including
gas stations, laundromats, convenience markets and variety stores.

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11. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.



Scale: 2 inches equal 1 mile.

MICROFILMED

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

William E. Nork

(Applicant)
William E. Nork (Attorney-in-Fact)
Cyprus Mines Corporation

WILLIAM E. NORK, Inc.

950 E. Greg Street • Sparks, Nevada 89431

CONSULTING SERVICES IN HYDROLOGY AND GEOLOGY
Phone (702) 358-7949

January 14, 1981

State of Idaho
Department of Water Resources
1041 Blue Lakes Blvd. North
Twin Falls, Idaho 83301

Gentlemen:

Enclosed you will find the amended Application for Permit to appropriate the public waters of the State of Idaho.

As per your letter of December 22, 1980 the requested corrections have been made. A total filing fee of \$145.00 has also been included with the amended application.

If you have any further questions, please contact our office.

Sincerely,
WILLIAM E. NORK, INC.

David Carlson

David Carlson
Hydrogeologist

Enclosure

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JAN 15 1981



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000

Phone: (208) 327-7900 FAX: (208) 327-7866

APRIL 18, 1994

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

CITY OF CHALLIS
PO BOX 587
CHALLIS ID 83226-0587

RE: WATER RIGHT NO. 72-07117

Dear Water Right Holder(s):

Enclosed herewith is a copy of the Water Right License issued on the above referenced permit along with a copy of your approved application for amendment.

Should you have any questions regarding these documents, please feel free to contact this office.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jim Johnson', written over the typed name and title.

JIM JOHNSON
Water Rights Supervisor

JJ:dc

Enclosure

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APR 20 1994



State of Idaho
DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000

Phone: (208) 327-7900 FAX: (208) 327-7866

February 23, 1994

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

CITY OF CHALLIS
CHALLIS ID 83226

RE: PERMIT NO. 72-07117

Dear Water Right Holder(s):

The above referenced permit is in the process of being reviewed for licensing. However, before a license can be issued, your permit must be amended to correspond with the findings of the Department's field examiner.

The enclosed application for amendment contains information that will be included on the license when it is issued. The amendment reflects not only corrections in the points of diversion locations, but also a change in the nature of use. Because municipal better describes the water use, the individual uses of irrigation, commercial, and domestic have been deleted.

Please review carefully and if you concur, sign the amendment and return with the \$20.00 filing fee within 14 days. If you do not concur with this information, please contact me as soon as possible.

Sincerely,

JIM JOHNSON
Water Rights Supervisor

Enclosure

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WR0749NP
No. L72-07117

IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROFILE REPORT

DATE: 02/23/94
PAGE: 1

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE	DIVERSION VOLUME
C	CITY OF CHALLIS PO BOX 587 CHALLIS ID 83226 (208) 879-2386	01/19/1981	MUNICIPAL	01-01 12-31	2.73 CFS	1925.50 AFA
TOTAL DIVERSION:					2.73 CFS	1925.50 AFA

Water Source: GROUNDWATER

Tributary to:

Stage: LICENSE

Point(s) of Diversion Capacity: 2.73 CFS

Point(s) of Diversion: T14N R19E S32 SWNENW
S33 SWSENE SWSENW

CUSTER County
CUSTER County

Pou County:

Remarks: Municipal use is within the city limits of Challis and the surrounding service area.

Dates: App. Received: 01/19/1981 Priority Date: 01/19/1981
Proof Due Date: 04/01/1986 Proof Made Date: 07/05/1983
Exam Made Date: 11/13/1984 Exam Sent to S.O.: 01/11/1994
Licensed Date:

Misc: Water District Number: Field Exam Fee:

Audit: 02/23/94 CHAPMAN 02/23/94 CHAPMAN 02/23/94 CHAPMAN

LICENSE REVIEW CHECKLIST

Permit # 72-7117 Date 1-31-94 Brenda Chapman

NAME Yes No Or Address Change?

PRIORITY DATE Advance? Advanced to:

 Order to Reinstate Needed?

 Incorrect Fee for rate recommended?

SOURCE Changes? Clarification of Originally Intended source

 Notice of Intent to Void - Source change.

P/D Amendment Needed? Add NENW

 Overlap(s) DELETE NESW

P/U Amendment Needed? Delete listing

 Overlap(s)

TOTAL CFS Measurement Theoretical only

 Provided by engineering firm

 TOTAL Q = 122.5 gpm or 2.73 CFS

Allowable Amount: CAPACITY at 2.73

Capacity of System: 2.73

TOTAL VOLUME

Season of Use: (1-1 to 12-31) B/3.5 for acre vol calc

Calculate a volume limiter to compensate for change in nature of use.

Calculations:

 413 acres x 3.5 = 1445.5 } 1925.5

 800 homes @ .6 = 480.0 }

Flow limit: 2.73 x 365 x 1.9835 = 1976.4

USES Change(s) in Nature of Use? CHANGE TO

 Amendment Needed? MUNICIPAL

REMARKS Multiple P/Ds in 1/4 1/4?

 Special Overlap

CONDITIONS Measuring/Locking Devices Water Dist

 W/Master Control App Rec'd

 Irrigation Overlap Exam Made

 Water Quality

 Other

COMMENTS: Amend P/D and Change nature of use

RECOMMENDED	CFS	DIV VOL
<u> </u> municipal	<u> </u> 2.73	<u> </u> 1925.5
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

LICENSE Special

1ST AMEND LETTER

2ND AMEND LETTER p47

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

JAN 13 1994

Department of Water Resources

A. GENERAL INFORMATION

Permit No. 72-7117

1. Owner: City of Challis Phone No. _____

Current Address: Challis, ID 83226

2. Accompanied by: Ron Gassman, Mayor EXAM DATE: 11/13/84

Address: _____ Phone No. _____

Relationship to Permit Holder: _____

3. Source: Groundwater tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 72-0123, 72-0041, 72-7167

2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Gov't Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
WEST WELL #1		SW	NE	NW	32	14N	19E	Custer	USGS MAP, Engineering Plan
WEST WELL #2		SW	SE	NW	"	"	"	"	"
EAST WELL		SW	SE	NE	33	14N	19E	Custer	"

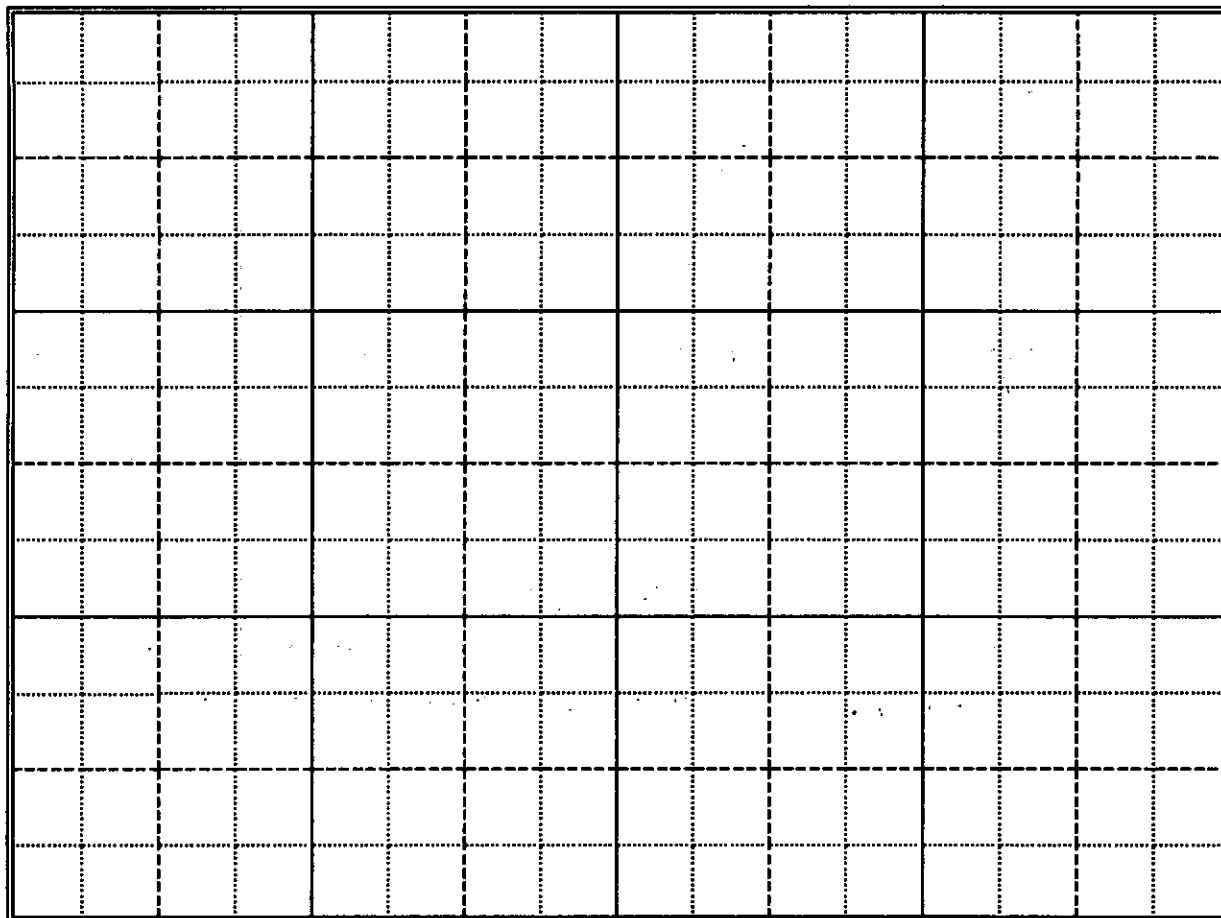
2. Place(s) of Use:

Indicate Method of Determination

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

APR 20 1994

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.



Scale: 1" = _____

✓ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

_____ Aerial Photo Attached (required for irrigation of 10+ acres)

✓ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
West Well - #1	Newman	50	326 TPA/DP2K28	Peabody Floway	8" x 16 stage
West Well - #2	Yaskawa	125	0075411501	Layne & Bowler	10" x 16 stage # 381-739-73
East Well	U.S. electric	75	R-6327-04-049	Peabody Floway	10" x 9 stage # 81-3045

*Code to correspond with No. on map and aerial photo

R 214202 KRR-S

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: Not measured due to equipment not operating.

Capacities: West Well #1 - 125 gpm

West Well #2 - 500 gpm

East Well - 600 gpm

1225 gpm $\Rightarrow$ 2.73 cfs

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E. NARRATIVE/REMARKS/COMMENTS

This permit was originally issued to CYPRUS Mines Corp. The permit was to supply water to a housing development to house construction workers & permanent staff for the Cyprus Thompson Creek Molybdenum mine.

During the construction phase & startup of the mine, the development was fully occupied.

The permit has been assigned to the City of Challis by CYPRUS and the permanent part of the housing development have been annexed into the City. Service lines still extend to an unoccupied trailer park outside the City boundary.

In operation, West Well #1 is used almost exclusively with West Well #2 used occasionally for backup. The East Well is not used due to mineral content of the water.

The West Well #1 was equipped with a "BTF" monitoring device which records water use, but the system manager could tell me nothing about it and it was not in use.

Ellsworth Engineering, the Engineer for the permit reports the following design capacities - West Well #1: 125 gpm West Well #2: 500 gpm, East Well: 1000 gpm. The City indicates a smaller pump was installed at the East Well & the actual capacity is 600 gpm.

Have conditions of permit approval been met? ☒ yes ☐ no

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F. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method:

Use Capacities as reported by Engineer of otherwise known

West well #1 - 125 gpm

West well #2 - 500 gpm

East well - 600 gpm

1225 gpm

2.73 cfs

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ _____

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ _____

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$ _____

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Municipal	1/1	12/31	2.73	
Totals:			2.73	

2. Recommended Amendments

☒ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ Other

Change use to Municipal

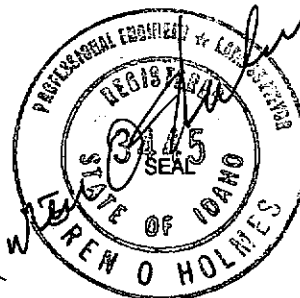
I. AUTHENTICATION

Field Examiner's Name Larry D. Hahn Date 12/1/93

Reviewer _____ Date _____

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APR 20 1994



Ellsworth Engineering, Inc.

Consulting Engineers & Land Surveyors

140 NORTH CORNER AVE. P.O. BOX 2336 IDAHO FALLS, IDAHO 83401 PHONE: 208/523-1662

March 7, 1983

Mr. Gary L. Funderburg
State of Idaho
Department of Water Resources
Southern Region
1041 Blue Lakes Boulevard North
Twin Falls, Idaho 83301

Re: Permit 72-~~7082~~

7117

Dear Mr. Funderburg:

With reference to the subject, we are submitting the following in order to complete the required information for issuing of the license:

1. Measurement of Wells

East Well No. I	12"Ø - 341 feet deep rated capacity 1000 gpm
West Well No. I	12"Ø & 8"Ø - 665 feet deep rated capacity 125 gpm
West Well No. II	12"Ø - 603 feet deep rated capacity 500 gpm

600 gpm
Per City Operating
manual.

2. Size of Storage Tanks

East Reservoir	200,000 gallons of active capacity
West Reservoir	200,000 gallons of active capacity

3. Make of Motor and Serial Number

East Well No. I: 75 HP 3Ø 60 Hz U.S. Electric
Frame 365 TP
460 Volts 91.5 Amps
Type R.V.
Design B Code G Insul. Class B
Cont. Rating 40°C amb. S.F. 1.15 1765 RPM
Upper Bearing 7220 M Lower Bearing 6211-J
Oil Capacity Upper Bearing 3¼ quarts
ID # R-6327-04-049 R2142021
NRR-S

APR 20 1994

Mr. Gary Funderburg
March 7, 1983

Page 3

West Well No. I: 50 HP #S1339201 Newman
Frame 326 TPH/DD2TK2PB
460 V 3Ø 60 Cycle
1770 rpm 59 amps 1.15 SF
Cont. Rating 40°C amb.
Insul. Class B Code G Design B

West Well No. II: 125 HP motor Yaskawa
Type BSUK-01
Frame PSU-405TP Cont. Rating
1773 rpm 460V 60 Cycle 3Ø
143 amps
Insulation F SF 1.15 Amp. 40°C
175 EHT Code G
Standard Nema MG 1
Serial No. 0075411501

4. Make of Pump and Serial No.

East Well No. I: Peabody Floway
10" Type DOH 9 Stage
Serial No. 81-3045

West Well No. I: Peabody Floway
8" Type DOH 16 Stage
Serial No. not available

West Well No. II: Layne & Bowler
10 RL - 16 Stage
Serial No. 381-739-73

We are sorry that it has taken so long to get this information to you, but due to circumstances beyond our control we were not able to secure all of the information until last week, and rather than make a partial submittal we elected to wait and submit everything at once.

Our problem centered around the failure of the East Well No. I pump last summer. The failure resulted in a lengthy interchange between contractors' insurance companies and the owner regarding warranty coverage, responsibility, and etc. and was only recently resolved and the new pumping equipment installed. We trust this delay has not affected the license and that everything you need is included herein. If there should be any questions please do not hesitate to call.

Yours truly,

ELLSWORTH ENGINEERING, INC.

Rance
Rance Bare, P.E.

cc: Mike Garfield
Sue Duke

APR 20 1984

14N

19E 90SENE $\frac{1}{4}$

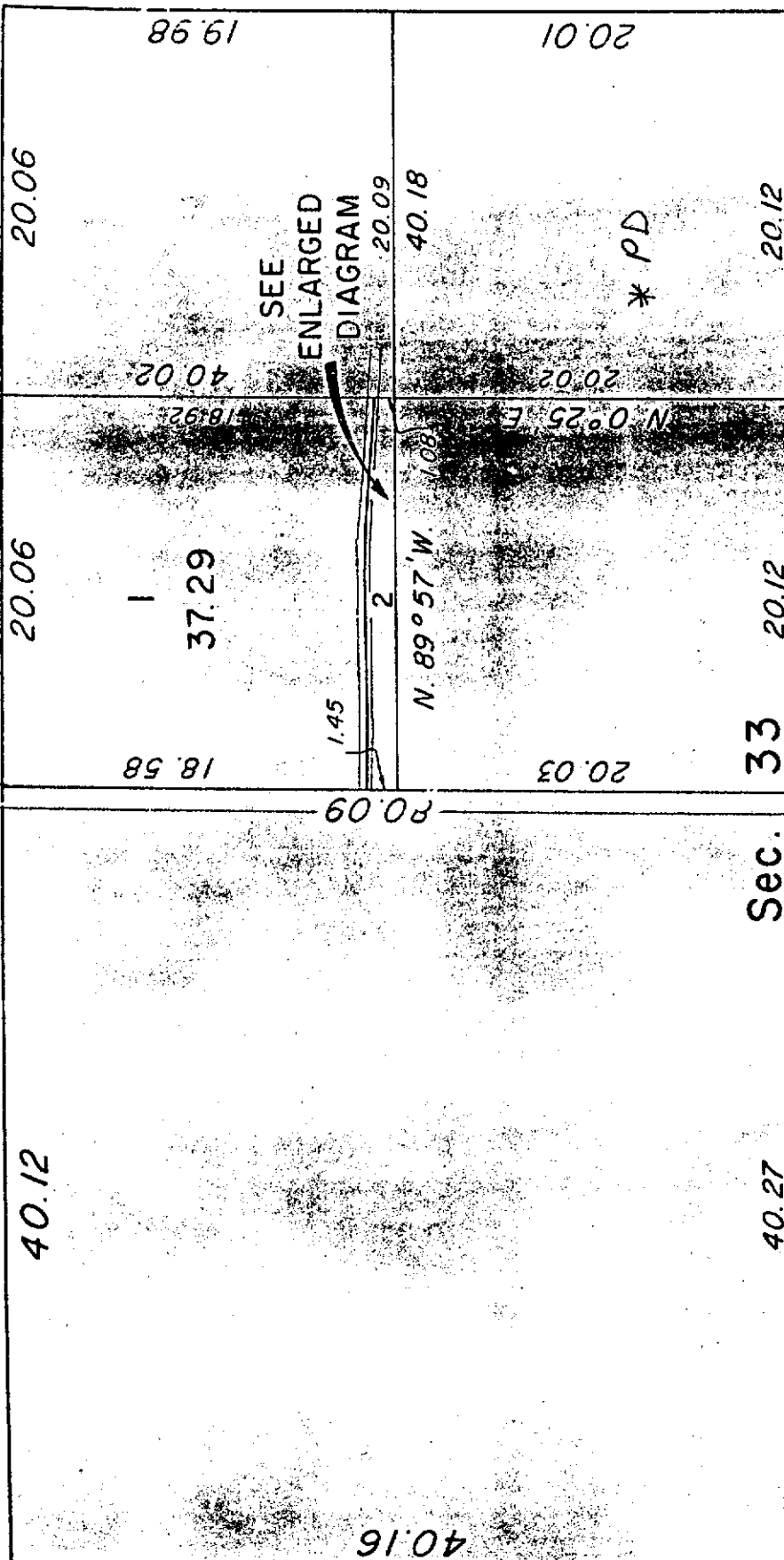
SEC 33 N. 89° 53' W.

40.12

93

N. 89° 52' W.

N. 89° 52' W.



APR 20 1994

20
5' E.

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Sec. 22 1893

Sec. 21

14N NENW 1/4
19E SENW 1/4
S32

Sec. 27

Sec. 34

NO GDU
LOTS

Sec. 33

5.89°48'N.

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When Surveyed

Amount of Surveys

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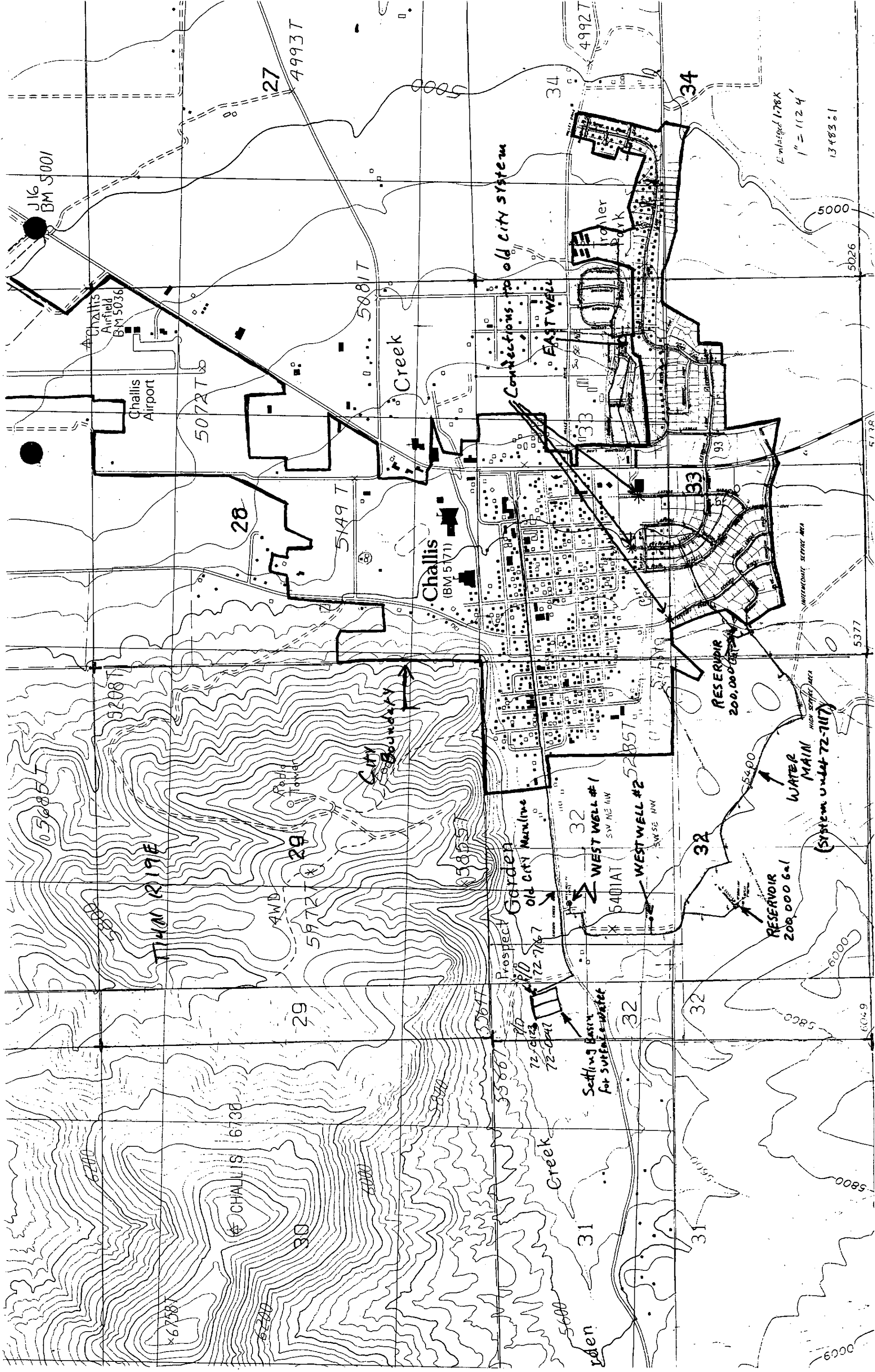
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CHALLIS EAST WELL NO. I

The Challis East Well No. I is located approximately one-fourth mile east of Highway 93 and south of Valley Drive in the Valley Mobile Home Court. The well was drilled in December of 1979 by Liberty Drilling and Pump Company of Kalispell, Montana. The well is twelve inches in diameter and was drilled to a depth of 341 feet. (See the attached construction diagram by Wm. E. Nork, Inc. and a memorandum from David Carlson regarding the well.)

As noted in the memorandum, the well is rated at having a capacity of up to 1000 gpm; however, it is equipped to deliver only 600 gpm with the current pumping installation. The quality of water pumped from the well is well within the public health standards for drinking water; however, there has been some complaints relative to the hardness of the water (rated as a medium hard water) and the possible premature failure of hot water heating elements due to hardness buildup on the elements. (See the attached chemical analysis by Energy, Inc.)

The well is equipped with a water lubed nine stage Peabody-Floway pump with
X a hp General Electric motor as the drive unit. The controls are Klockner Moeller. Flow metering equipment and recording units are B.I.F. Surge control on the well is provided by a Cla-val pressure sustaining valve which discharges to a natural drainage drain east of the well.

Detailed operation and maintenance instructions for each mechanical unit are included herein.

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Specific items which the operator should be aware of include:

- 1) Make a daily check of all wells to insure that everything is operational and no vandalism or other act has occurred.

- 2) Check to see that prelube water is on all pumps.
- 3) Hand operate each pump to insure its availability.
- 4) On a weekly basis change record charts on flow meters.
- 5) Check operating water depth on a daily basis and record the results.
- 6) Check the motor on a daily basis for vibrations.
- 7) Check the oil level for the motor on a weekly basis.

The following firms supplied equipment for the well and the operator should contact them if problems arise which they cannot solve or which are beyond the scope of this manual.

Pump, Motor, Control Panel, Air Release Valve and Check Valve were furnished and installed by:

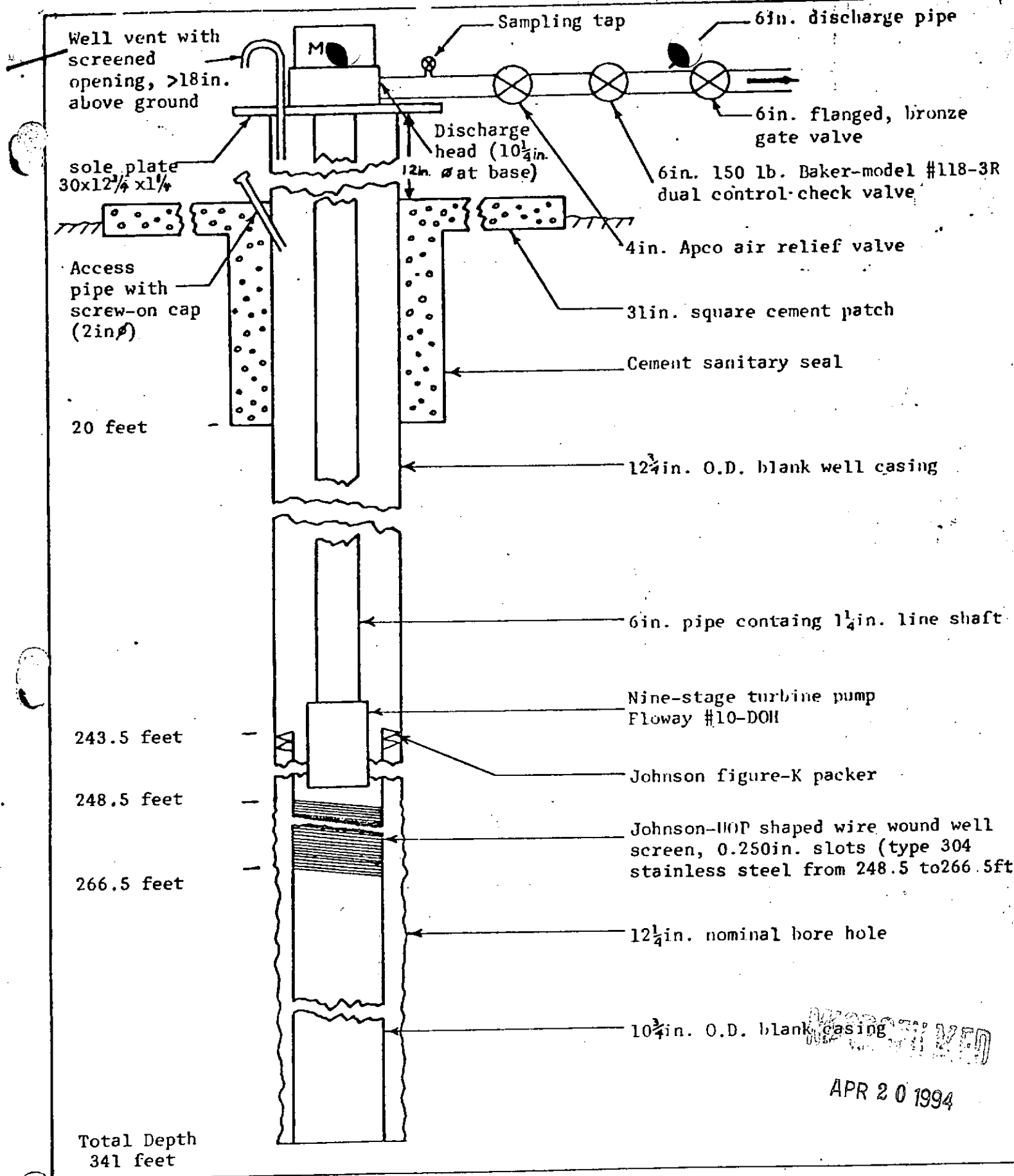
Liberty Drilling and Pump Co.
3850 Highway 93 South
Kalispell, Montana 59901
Phone: (406) 755-5544

Flow Measurement and Recording Equipment was furnished and installed by:

Andrew Well Drilling Contractors
1268 E. 17th Street
Idaho Falls, Idaho 83401
Phone: (208) 522-2794

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APR 20 1994



Construction Diagram for the Challis Eastern Sudivision Well

MEMORANDUM

To: 81-126a File
From: David Carlson
Re: East Well No. 1, Challis, Idaho

General

East Well No. 1 is located east of Challis, Idaho, approximately 1/4 of a mile east of Highway 75 across from the Village Inn. Liberty Drilling and Pump Co., Kallispell, Montana, commenced drilling operation December 1, 1980. Total depth of 341 feet was reached December 10, 1980. A pump was installed at a setting of 244 feet. A step-drawdown test was performed January 10, 1981.

Geology

The well site is located on valley alluvial fill which is underlain by Challis volcanic rocks of Tertiary age below 290 feet depth. A brief lithologic log of the borehole is as follows:

Depth Interval (feet)	Lithologic Description	Formation
0-290	Poorly sorted alluvium consisting of sand, gravel, cobbles and boulders. Gravel and larger material is composed of quartzite, volcanic and metamorphic rocks.	Alluvium Qal
290-341	Multiple flows of red cinders, dark grey volcanic ash, basalt and andesite lava, and pyroclastic flows.	Challis volcanics Tc

Well Construction

East Well No. 1 was drilled by the air-rotary method. A nominal 12-inch diameter hole was drilled to 341 feet and cased with 12-3/4-inch O. D. blank steel casing to 297 feet depth. A total of 18 feet of 10-3/4-inch Johnson UOP shaped wire wound continuous slot well screen, 250 slot

APR 20 1994

WILLIAM E. NORK, Inc.

WILLIAM E. NORK, INC.
950 E. Greg Street
SPARKS, NEVADA 89431
(702) 358-7949

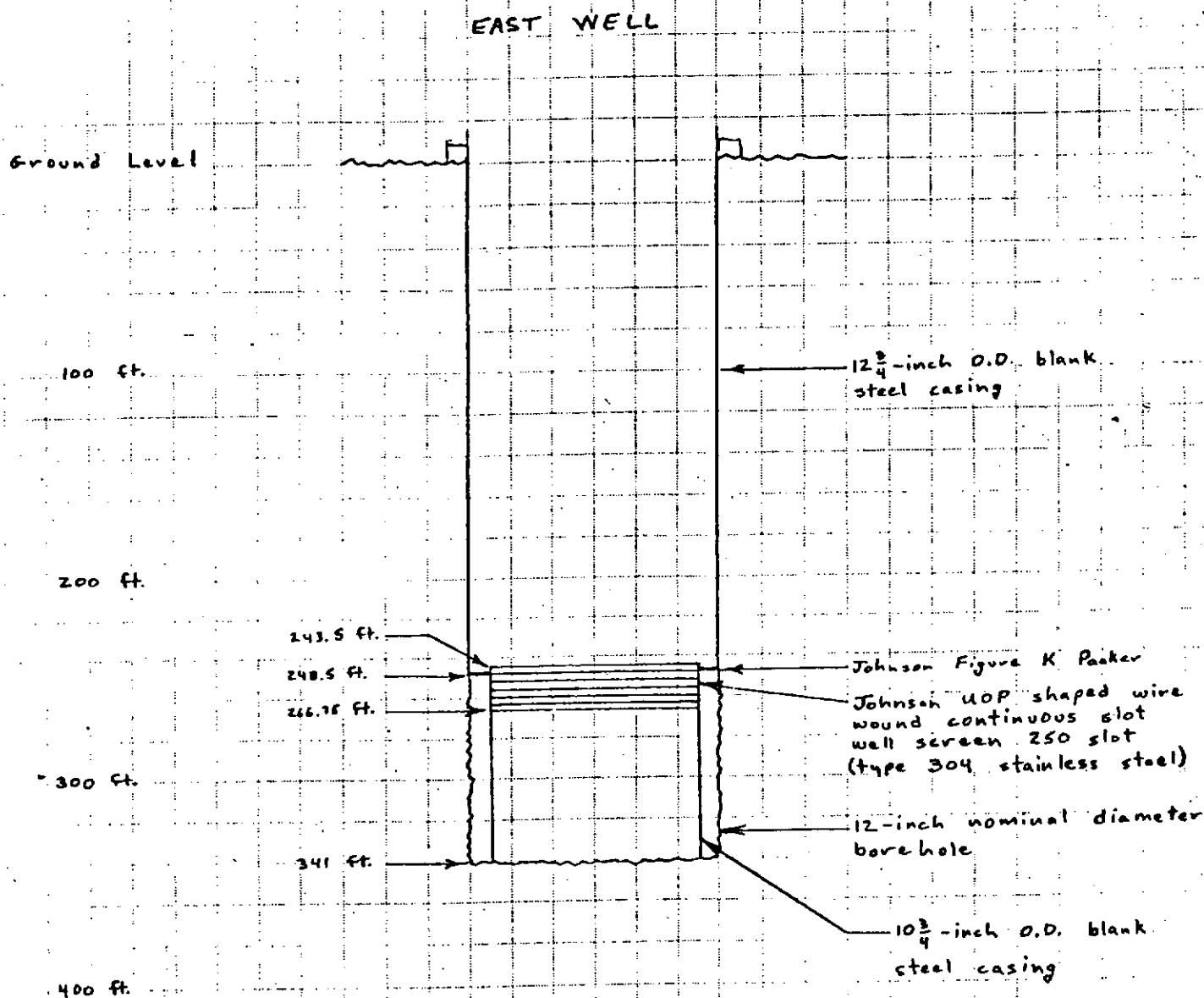
JOB 80-126 A Challis Township

SHEET NO. _____ OF _____

CALCULATED BY _____ DATE _____

CHECKED BY _____ DATE _____

SCALE VERTICAL SCALE: 1" = 80'



NOTE -- 12 3/4-inch casing was driven during drilling of 12-inch nominal diameter borehole.

APR 20 1994

MEMORANDUM

To: 80-126a File

From: Dale C. Bugenig

Re: West Well No.1, Challis, Idaho

General

West Well No.1 is located west of Challis, Idaho, along the south side of Garden Creek road. The well is 109.8 feet roughly northwest of Test Well No.6 (drilled by Westegard). Liberty Drilling and Pump Co., Kalispell, Montana, commenced drilling operations November 25, 1980. Total depth of 665 feet was reached December 9, 1980. A step-drawdown test was performed December 11, 1980, and constant-discharge testing performed December 12-13, 1980.

Geology

The well site is located on the alluvial fan deposited by Garden Creek. Challis volcanic rocks of Tertiary age crop out north and south of the well site and underlie the alluvial material. A brief lithologic log of the borehole is as follows:

Depth interval (feet)	Lithologic description	Formation
0 - 92	Poorly sorted alluvium consisting of clay, silt, sand, gravel, cobbles and boulders. Gravel and larger material is composed of quartzite, volcanic and metamorphic rocks.	Alluvium Qal
92-665	Multiple flows of red cinders, dark grey volcanic ash, basalt and andesite lava, and pyroclastic flows. Yields significant ground water from "cooling breaks" between episodes of deposition below 175 feet depth.	Challis volcanics Tc

APR 20 1994

WILLIAM E. NORK, Inc.

Well Construction

West Well No. 1 was drilled by the air-rotary method. A nominal 12-inch diameter hole was drilled to 103.66 feet and cased with blank 10-3/4-inch O.D. steel well casing which was seated eleven feet into the volcanic rock, effectively sealing off all ground water derived from the shallower alluvial aquifer. Below 103.66 feet nominal 10-inch diameter hole was drilled to 275 feet. From 275 to 665 feet depth (T.D.) the hole was drilled at 8-7/8-inch diameter. The portion of the hole below 103.66 feet was completed in competent volcanic rock and no casing was installed below this hole. Upon completion, the hole was developed with the drill rig mounted air compressor. Approximately 200 gpm of ground water was discharged from the well during development.

Well Testing

Upon completion of drilling and development, a submersible turbine pump was installed in the hole at a setting of 260 feet on December 9, 1980. A three-step-drawdown test was performed December 11, 1980. Results of testing is summarized below:

Static water level prior to testing was 1.55 feet below top of casing (T.O.C.). Testing commenced at 1020 hours 12/11/80. Step I was pumped at 110 gpm for 250 minutes (4 hrs., 10 mins.). Drawdown at the end of Step I was 50.95 feet, a Specific Capacity of 2.16 gpm/ft. of drawdown. Step II was pumped at 170 gpm for 180 minutes (three hours). Drawdown at the end of Step II was 93.93 feet, a Specific Capacity of 1.60 gpm/ft. of drawdown. Step III was pumped at an average of 200 gpm for 240 minutes. Drawdown at the end of Step III was 132.55 feet, a Specific Capacity of 1.41 gpm/ft. of drawdown. Testing was terminated at 2130 hrs. 12/11/80. Recovery was quite rapid, about 93 per cent within one hour.

The water level in West Well No.1 was allowed to recover overnight prior to performing a constant-discharge test. Water levels were measured in the pumping well — West Well No. 1 — and Test Well No. 6, a distance of 109.8 ft. away. Results of testing are summarized below:

Static water levels prior to testing were 2.07 and 2.87 feet below T.O.C. in West Well No. 1 and Test Well No. 6, respectively. Testing commenced 1245 hrs. 12/12/80. Initial pumping rate was 230 gpm. Average pumping rate was approximately 200 gpm. Testing was

APR 20 1994

terminated at 1300 hrs. 12/13/80, a duration of 1455 minutes (24 hrs., 15 mins.). Drawdowns at end of testing in West Well No. 1 and Test Well No. 6 were 140.47 and 20.05 feet, respectively. Recovery of water levels was quite rapid, 86 per cent within 10 minutes and 93 per cent after one hour.

Aquifer Characteristics

Data collected from the West Well No. 1 (pumping well) and Test Well No. 6 (observation well) were used to calculate aquifer characteristics. Data were analyzed by several methods — the Jacob straight-line solution to the Theis Non-equilibrium Equation and Non-steady State Leaky Artesian type curves. Analysis of the data by these methods gives reasonably good correlation especially early into the test where assumptions of all of the methods can be met. Results of analyses are summarized below for comparison.

Well designation	Analysis method	Transmissivity	Storage Coefficient
West Well No. 1 (pumping)	Jacobs straight line	5,388 gpd/ft.	-
Test Well No. 6 (obs)	Jacobs straight line	5,617 gpd/ft.	3.25×10^{-4}
West Well No. 1 (pumping)	Non-steady state Leaky Artesian	280 gpd/ft.	-
Test Well No. 6 (obs)	Non-steady state Leaky Artesian	3,952 gpd/ft.	4.86×10^{-5}

Analysis of test data indicates the aquifer is behaving as a "leaky artesian aquifer". Sparse data makes it difficult to determine whether the aquifer is truly a "leaky" aquifer or simply anisotropic. The latter is more likely the case since drilling data indicate ground water is derived from cooling breaks within the Challis volcanics. The rocks themselves exhibit relatively low permeability, hence the anisotropic response. Note the transmissivity value obtained from pumping well data and determined by curve-matching techniques with non-steady state leaky artesian-type curves. It is considerably lower in value than values obtained in the observation well. The poor correspondence in values is likely caused by anisotropy manifested by the relatively large drawdown experienced in the pumping well.

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APR 20 1994

Well Rating

Recommended pump setting for West Well No. 1 is 275 feet below ground level. At this depth the pump will be below the well casing but within competent volcanic rock. On the basis of step-drawdown and constant-discharge testing and approximately 275 feet of available drawdown, the well can be rated as high as 370 gpm for up to 24 hours. However, for more or less continuous operation the well can be rated at 300 gpm. Water level in the well at this pumping rate will vary between approximately 225 to 250 feet below ground level depending upon pumping duration.

Water Quality

A total of four water samples were collected from West Well No. 1 — one blow sample taken from 405 feet depth (12/6/80), two samples collected during step-drawdown testing (12/11/80) and a sample collected at the end of constant-discharge testing 12/13/80. Samples were analyzed by Energy, Inc., Idaho Falls, Idaho. Results of the first analysis are summarized below:

	12/6/80	12/11/80	12/13/80	Maximum contaminant level
As	<0.005	<0.001	<0.01	0.05
Ba	<0.05	0.02	0.02	1.
Cd	<0.0001	<0.0002	<0.0002	0.010
Cr	<0.002	0.0009	0.0008	0.05
F	0.2	0.2	0.2	1.4-2.4
Pb	0.010	0.0059	0.0064	0.05
Hg	0.162	<0.0002	<0.0002	0.0002
N	0.14	0.12	0.12	10.
Se	<0.001	<0.003	<0.003	0.01
Ag	<0.0003	<0.0002	<0.0002	0.05
SO ₄	20.4	18.	16.	500.*
Fe	0.67	0.05	0.04	0.3*
TDS	-	193.	187.	1,000.*

*Secondary drinking water standards.

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APR 20 1981

Note that the high concentration of mercury indicated in the 12/6/80 sample is not present in either of the two samples collected 12/11/80. An error in the first determination or a contaminated sample bottle are probable causes for the discrepancy.

Energy, Inc., has been instructed to perform Gross Water Chemistry, Alkalinity and Hardness Analyses in addition to Heavy Metals on all future water samples.

Given the limited water quality data available, water quality may be classified as good to excellent.

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APR 20 1994

CONSTRUCTION DIAGRAM
WEST WELL #1

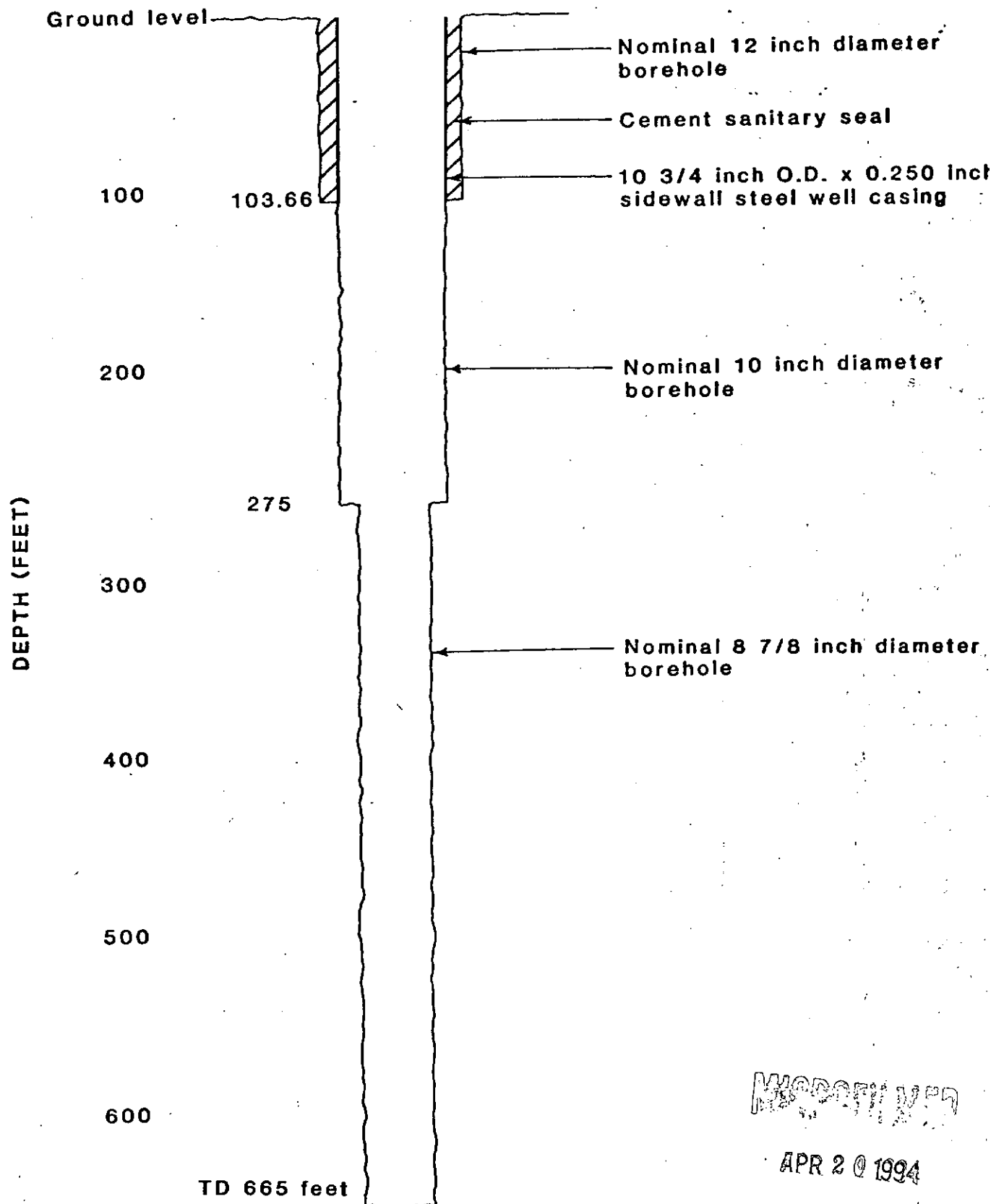


Figure 3

CHALLIS WEST WELL NO. 2

The Challis West Well No. 2 is located approximately one-half mile west of Challis along the Garden Creek Road and then one-fourth mile south (one-fourth mile south of West Well No. 1). The well was drilled in August 1981 by Liberty Drilling and Pump Co. of Kalispell, Montana. The well was originally constructed to eight inches in diameter; however, when it was determined that the well had located an extremely good source of water (both quantity and quality) it was reamed out to twelve inches in diameter to a depth of 603 feet. (See the attached construction memorandum from David Carlson of Wm. E. Nork, Inc. together with the following corrections.)

Upon completion of the reaming of the well from an eight inch diameter to twelve inches in diameter, new pumping tests showed that the well has a longterm production capability of 500 gpm with short term capacities of up to 1,000 gpm.

Due to its strategic location and high water quality West Well No. II has been designated as the primary water source for the subdivision development. As such, the well is the first call well on the automatic control system and is the last off. Any malfunction of the well is therefore extremely important for the system.

The operator should complete the following checks on the well as a normal part of their routine maintenance program:

- 1) Make a daily check of the well to insure that everything is operational and no vandalism has occurred.
- 2) Check daily to see that the prelube line is on and operating.
- 3) Inspect the check valve to make sure it is closing immediately upon pumping shutdown in order to prevent draining of the West tank back down the well.

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APR 20 1994

- 4) Check recording equipment for operation and change recording charts on a weekly basis.
- 5) Monitor water depth in well under both static and operating conditions on a daily basis and record results.
- 6) Check the oil level in the motor on a daily basis.
- 7) Check the motor for vibrations on a daily basis.

The following firms supplied materials and equipment for this project and should be contacted in case of problems:

UNCLASSIFIED

APR 20 1994

MEMORANDUM

To: 80-126a File
From: David Carlson
Re: West Well No. 2, Challis, Idaho

General

West Well No. 2 is located west of Challis, Idaho, approximately 3/4 of a mile south-southwest of West Well No. 1. Liberty Drilling and Pump Co., Kalispell, Montana, commenced drilling operation December 11, 1980. Total depth of 603 feet was reached December 16, 1980. A pump was installed at the 400-foot depth. Well was pumped for one hour at approximately 50 gpm to collect a water sample. A step drawdown and constant-discharge test will be performed after the Christmas-New Year Holiday break.

Geology

The well site is located atop a thin alluvial deposit which overlies Challis volcanic rocks of Tertiary age. A brief lithologic log of the borehole is as follows:

Depth interval (feet)	Lithologic Description	Formation
0-3.5	Poorly sorted alluvium consisting of clay, silt, sand, gravel, cobbles and boulders. Gravel and larger material is composed of quartzite, volcanic and metamorphic rocks.	Alluvium Qal
3.5-603	Multiple flows of red cinders, dark grey volcanic ash, basalt andesite lava and pyroclastic flows.	Challis volcanics Tc

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APR 20 1994

Well Construction

West Well No. 2 was drilled by the air-rotary method. A nominal 12-inch diameter hole was drilled to 17 feet and cased with blank 10-inch surface casing which was seated 13.5 feet into the volcanic rock. Below the 17 feet depth, nominal 8-7/8-inch diameter borehole to 603 feet depth was drilled. Large quantities of ground water were encountered below 500 feet depth, causing the hammer to flood out at 603 feet depth. No casing was installed below 17 feet depth since the hole was completed in competent volcanic rock. Upon completion, the hole was developed with drill-rig mounted air compressor. Well yielded approximately 250 to 300 gpm during development.

Well Testing

A 20 horsepower submersible test pump equipped with a stilling well was installed to 400 feet depth December 19, 1980. Pump was rated at 50 gpm from this setting. Testing, originally scheduled to commence December 17, was delayed due to problems with the test pumping equipment. Testing is summarized below:

Water level prior to pumping was 323.9 feet below top of stilling well. Pumping commenced 1735 hrs. 12/19/80. Pumped at approximately 75 gpm. Drawdown at end of one hour was 1.67 feet (a pumping water level of 325.57 feet) and remained stable for approximately 50 minutes.

Results of brief test in West Well No. 2 indicated that a large test pump would be required to adequately stress the aquifer; a pump capable of a discharge in the neighborhood of 400 gpm from a depth of 500 feet.

Water Quality

A water sample for chemical analysis was collected from West Well No. 2 at 1120 hrs. December 21, 1980. Conductivity and pH of the sample measured in the field were 187 μ MHO/cm and 7.66, respectively. Results of the completed chemical analyses have not yet been received from Energy, Inc.

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APR 20 1994

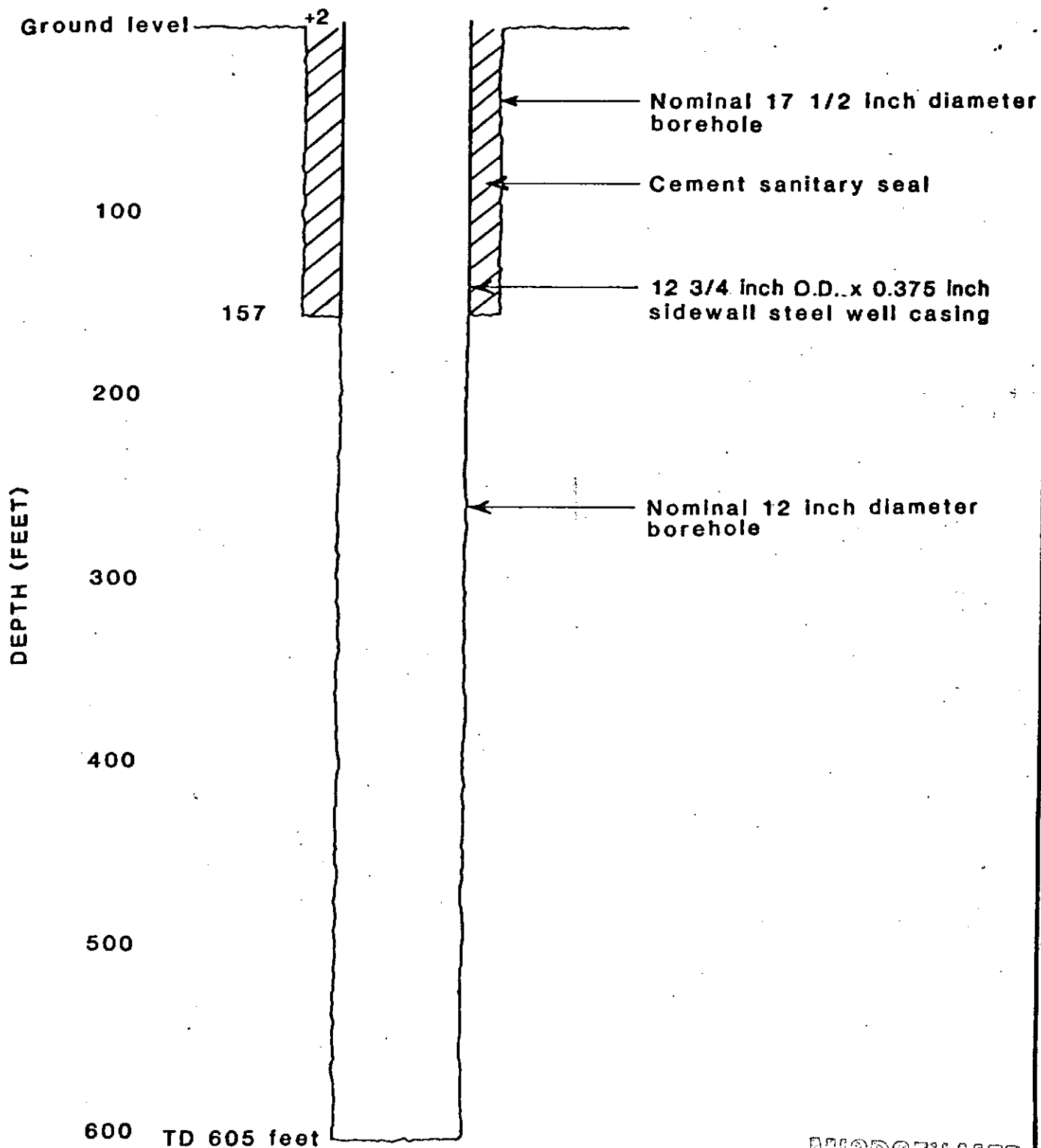
Well Rating

Data derived from the brief test cannot be used for precise determination of aquifer characteristics and long-term yield of the well. However, test data are complementary to information derived during drilling of the well which indicated it could yield up to 400 gallons per minute, or more.

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APR 20 1994

CONSTRUCTION DIAGRAM
WEST WELL #2



MADEIRA WFO

APR 20 1994

Figure 5

Form 218
8/86

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

1. Owner: City of Challis

Current Address: _____

2. Accompanied by: Rob Taylor

Address: _____

Relationship to Permit Holder: _____

3. Source: groundwater

tributary to ✓

Permit No. 72-7167

Phone No. _____

EXAM. DATE: 7/29/87

Phone No. _____

B. OVERLAP REVIEW

1. Other water rights with same place of use: 22-0047, 72-7167, 72-7117

☐ Copies Attached

22-10123

2. Other water rights with same point of diversion: NO

☐ Copies Attached

☐ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

1. Diversion System Diagram: Indicate all major components and distances between components. Indicate weir size/ditch size/pipe I.d. as applicable. ☐ Alternative diagram attached

Scale: 1" = _____

2. ☐ Copy of U.S.G.S. Quadrangle Attached
Showing location(s) of point(s) of diversion and
place(s) of use (required).

☐ Photo of Diversion and System Attached

(required for all but single household domestic groundwater, and stockwater.)

☐ Aerial Photo Attached
(required for irrigation of 10 acres or more)

DELIVER

System Description (continued)

3. Narrative: Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

*Water is pump from well in to water
towers then directed into city main.*

*Well was drilled by Jack Casperson Drill
Motor installed by Ag. Service of Blackfoot, Ida*

☐ See Remarks on page 4 for continuation

Well or Diversion Identification No.	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	Jacobs	20	2056215		

*Code to correspond with No. on map and aerial photo

5. Point(s) of Diversion:

Ident. No.	Gov't. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
					32	14N	19E	Custer	

6. Place(s) of Use:

Indicate Method of Determination

Twp.	Rge.	Sec.	Indicate Method of Determination																Totals
			NE 1/4				NW 1/4				SW 1/4				SE 1/4				
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
14N	19E	32	X			X													
		33					X	X	X	X			X						

Do not use this space

Do not use this space

D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
McCombs				8-4-297	6"	

2. Measurements:

measured 170 gpm $\div 448.8 = 0.38 \text{ cfs}$

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method:

2. Alternate Method for Checking Purposes:

F. PUMP EFFICIENCY DATA (Optional)

Info Not Available

Discharge Pressure: _____ psi $\times 2.31 =$ _____ ft (1); Dynamic pumping level: _____ ft (2)

Total Head: (1) $\pm$ (2) = _____ (3) : Flow rate: _____ cfs (4)

Water HP: (3) $\times$ (4) $\div 8.8 =$ _____ (5)

Meter Input KW: 3.6 $\times$ _____ KH $\times$ _____ CTR or _____ MULT $\times$ _____ PTR $\times$ _____ N/ _____ T = _____ (6)

Meter Input HP: (6) $\times 1.34 =$ _____ (7)

Panel Input KW: _____ Ave PF $\times$ _____ Ave Volts $\times$ _____ Ave Amps $\times .001732 =$ _____ (8)

Panel Input HP: (6) $\times 1.34 =$ _____ (7) Efficiency: (6)/(7) $\times 100 =$ _____ %

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{in} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ _____

$V_{div} = (\text{Diversion Rate (cfs)}) \times (\text{Days in Irrigation Season}) \times 1.9835 =$ _____

$V = \text{Smaller of } V_{in} \text{ and } V_{div} =$ _____

2. Volume Calculations for Other Uses:

APR 20 1994

H. REMARKS AND OVERLAP REVIEW ANALYSIS

PM within city of Challis, Idaho

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use

Municipal

Period of Use
From 1-1 To 12-31

Rate of Diversion
Q (cfs) 0.38

Annual Volume
V (cfs) N/A

Totals: 0.38

N/A

2. Recommended Amendments

- ☐ Change P.D. as reflected above
- ☐ Change P.U. as reflected above

- ☐ Add P.D. as reflected above
- ☐ Add P.U. as reflected above

- ☒ None
- ☐ Other

J. AUTHENTICATION

Field Examiner's Name

Boyd Funderburg

Signature

Boyd Funderburg

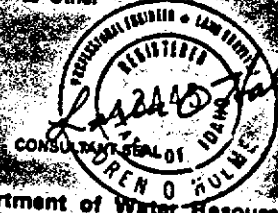
Certification Date

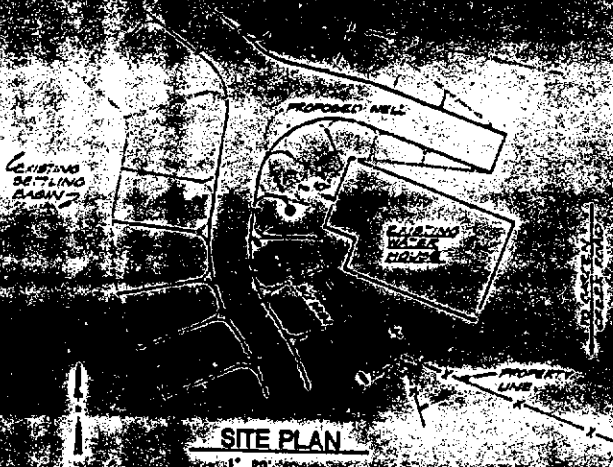
5/11/87

Field Report Preparation Date

7/30/87

K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.

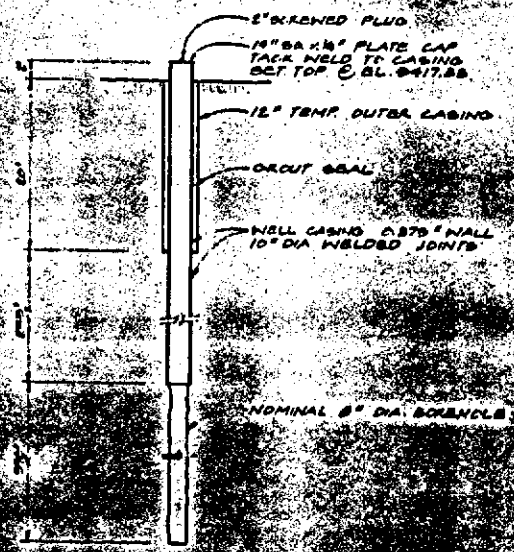




DEPTH	DESCRIPTION
0' - 0"	TOP SOIL
0' - 54"	TAN, SILTY SAND, TRAVEL & COBBLESTONE
54' - 76'	DARK TAN, SILTY SAND, GRAVEL & COBBLESTONE
76' - 105'	BROKEN ROCK
105' - 217'	SOLID ROCK - RED
217' - 251'	GRAY - BLACK ROCK
251' - 290'	RED ROCK
290' - 430'	DARK GREEN ROCK
430' - 480'	SOFT RED ROCK
480' - 620'	DARK GRAY OR BLACK ROCK

NOTE: LOCATION OF WELL IS NW 1/4 SEC 35 T4N R15E (NEAR WELL #1)

EXISTING WELL LOG



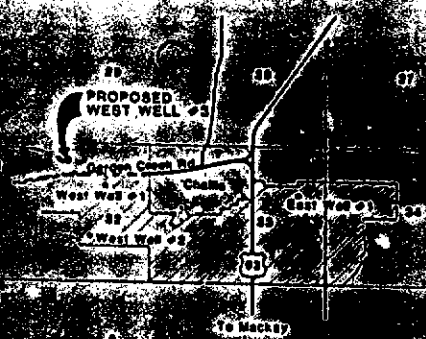
WELL DETAIL
NTS

VERIFIED STATES
BAR IS ONE INCH ON
ORIGINAL DRAWING

CITY OF CHALLIS, IDAHO
WATER SYSTEMS DEPARTMENT

WELL NO. 1

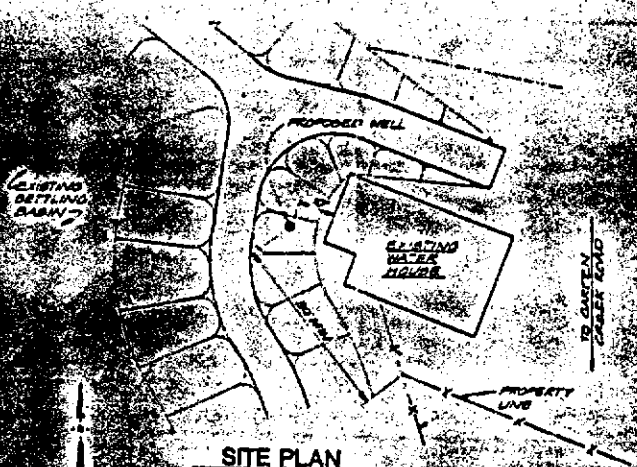
APR 2 1988



VICINITY MAP

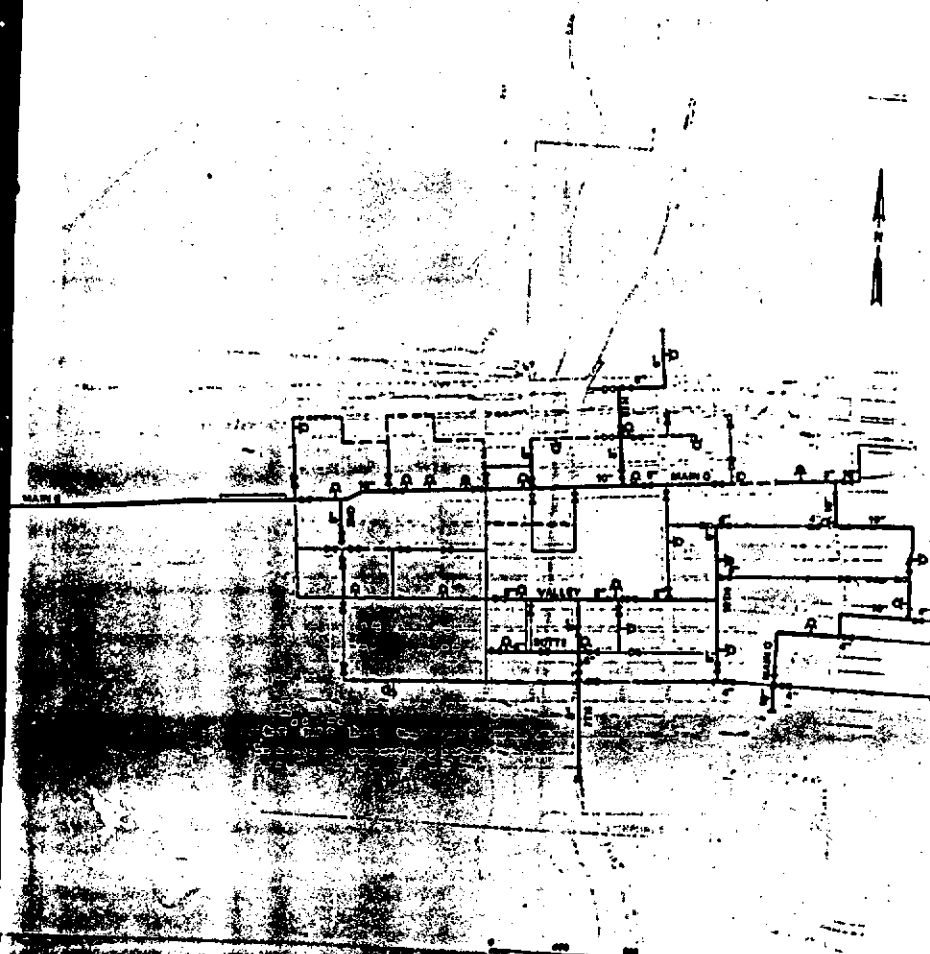
Scale

T14N
R19E



SITE PLAN

1" = 30'



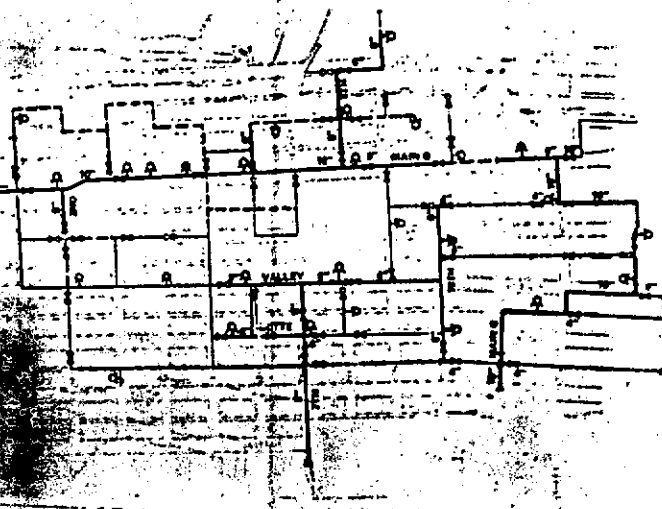
NOTE
 INFORMATION ON LOCATION
 OF EXISTING LINES AND VALVES
 OBTAINED FROM CITY RECORDS
 SUPPLEMENTED BY SURFACE
 OBSERVATION AND IS SHOWN
 FOR GENERAL INFORMATION
 ONLY. ONLY LINES FOUR INCHES
 AND LARGER ARE SHOWN.

- EXISTING LINE AND VALVE TO BE RETAINED
- PHASE II PROPOSED CONSTRUCTION (NEW)
- PHASE I CONSTRUCTION AND NEW VALVE
- PHASE I NEW FIRE HYDRANTS
- EXISTING FIRE HYDRANTS TO BE RETAINED

PROPOSED

APR 20 1994

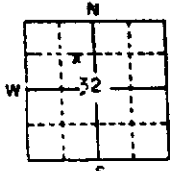
IMPROVEMENTS AT
EXISTING WATER
TREATMENT FACILITY
RE: INLETS 4 AND 5



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APR 20 1994

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTState 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.RECEIVED
USE TYPEWRITER OR
1 131 R

1. WELL OWNER Name <u>CYPRUS MINES CORP.</u> Address <u>Box 755 - CHALLIS, ID. 83226</u> Owner's Permit No. <u>72-7117</u>		7. WATER LEVEL Static water level <u>2</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 _____																																																																							
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☒ Pump ☐ Bailor ☐ Air ☐ Other _____ STEP DOWN Discharge G.P.M. <u>200</u> Pumping Level <u>132.55'</u> Hours Pumped <u>24 HRS.</u>																																																																							
3. PROPOSED USE ☐ Domestic ☐ Irrigation ☐ Test ☒ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)		9. LITHOLOGIC LOG <table border="1"><thead><tr><th rowspan="2">Hole Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td>10"</td><td>0</td><td>6"</td><td>TOPSOIL</td><td></td><td></td></tr><tr><td>10"</td><td>6"</td><td>34</td><td>TAN SILTY SAND, GRAVEL & COBBLESTONES, SEEPS WATER</td><td>X</td><td></td></tr><tr><td>10"</td><td>34</td><td>92</td><td>DARK TAN SILTY SAND, GRAVEL & COBBLESTONES, 5 GPM WATER</td><td>X</td><td></td></tr><tr><td>10"</td><td>92</td><td>103</td><td>BROKEN ROCK</td><td>X</td><td></td></tr><tr><td>10"</td><td>103</td><td>217</td><td>SOLID ROCK - RED, SMALL SEEP OF WATER</td><td>X</td><td></td></tr><tr><td>10"</td><td>217</td><td>251</td><td>GRAY-BLACK ROCK</td><td>X</td><td></td></tr><tr><td>8"</td><td>251</td><td>390</td><td>RED ROCK (8" STARTS AT 275')</td><td>X</td><td></td></tr><tr><td>8"</td><td>390</td><td>430</td><td>DARK GREEN ROCK</td><td>X</td><td></td></tr><tr><td>8"</td><td>430</td><td>520</td><td>SORT. RED ROCK</td><td>X</td><td></td></tr><tr><td>8"</td><td>520</td><td>665</td><td>DARK GRAY OR BLACK ROCK</td><td>X</td><td></td></tr></tbody></table>		Hole Diam.	Depth		Material	Water		From	To	Yes	No	10"	0	6"	TOPSOIL			10"	6"	34	TAN SILTY SAND, GRAVEL & COBBLESTONES, SEEPS WATER	X		10"	34	92	DARK TAN SILTY SAND, GRAVEL & COBBLESTONES, 5 GPM WATER	X		10"	92	103	BROKEN ROCK	X		10"	103	217	SOLID ROCK - RED, SMALL SEEP OF WATER	X		10"	217	251	GRAY-BLACK ROCK	X		8"	251	390	RED ROCK (8" STARTS AT 275')	X		8"	390	430	DARK GREEN ROCK	X		8"	430	520	SORT. RED ROCK	X		8"	520	665	DARK GRAY OR BLACK ROCK	X	
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4. METHOD DRILLED ☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____																																																																									
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ Thickness _____ inches Diameter _____ inches + _____ feet From _____ feet To _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet Was casing drive shoe used? ☒ Yes ☐ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inch. by _____ inches Number _____ From _____ To _____ _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>18"</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 Weld _____ ☐ Cemented between strata Describe access port <u>1" PLUG IN STEEL PLATE</u>																																																																									
6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name <u>WEST ADDITION</u> Lot No. _____ Block No. _____ County <u>CUSTER</u> SE 1/4 NW 1/4 Sec. <u>32</u> T. <u>14N</u> N.S. R. <u>19E</u> E.W.		10. Work started <u>11-85-89</u> finished <u>2-2-81</u>																																																																							
11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>LIBERTY DRILLING CO.</u> Firm No. <u>380</u> Address <u>Box 407, CHALLIS, ID.</u> Date <u>2-3-81</u> Signed by (Firm Official) <u>Bill Gardner</u> and <u>Bill Gardner</u> (Operator) <u>Bill Gardner</u> APR 20 1981																																																																									

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

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

USE TYPEWRITER

RECEIVED

WELL OWNER

Name CYRUS MINES, CORP.
Address Box 755 CHALLIS, IDAHO 83226
Owner's Permit No. 72-7117

7. WATER LEVEL

Static water level 157 feet below land surface
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Artisan closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature _____ OF: Quality _____

NATURE OF WORK

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

8. WELL TEST DATA

☒ Pump ☐ Bailer ☐ Air ☐ Other

Discharge G.P.M.	Pumping Level	Hours Pumped
75	157.25'	23 MIN.
145	160.89	16 MIN.
220	162.84	45 MIN.

PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test ☒ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection (specify type)

9. LITHOLOGIC LOG

Depth	Material	Water
Diam. From To		Yes No
12' 0" 19'	GRAVEL, COBBLESTONES & BOULDERS MIXED IN TAN SANDY SILT	
12' 19' 47'	SAME MIXED IN TAN CLAYEY SILT & SILTY CLAY	
12' 47' 177'	COARSE GRAVEL & COBBLES IN TAN SILTY SAND	X
12' 177' 240'	CLEANER COARSE GRAVEL & COBBLESTONES, TAN SAND, SOME QUITE SILTY WATER	X
12' 240' 248'	CLEANER COARSE SAND & GRAVEL WITH SEAMS OF TAN CLAY	
12' 248' 270'	COARSE CLEAN SAND & GRAVEL MORE WATER (BLOWING 200 GPM FROM 257')	X
12' 270' 290'	COARSE GRAVEL, SILTY SAND, SEAMS OF LIGHT TAN CLAY	
12' 290' 297'	BROKEN ROCK, PREDOMINANTLY RED	
12' 297' 341'	SOLID ROCK, PREDOMINANTLY RED	

METHOD DRILLED

☒ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other

WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other

Thickness Diameter From To
250 inches 12 inches 22 inches 249 feet
250 inches 10 3/4 inches 266'9" feet 341 feet
inches inches feet feet

Was casing drive shoe used? ☒ Yes ☐ No

Was a packer or seal used? ☒ Yes ☐ No

Perforated? ☒ Factory ☐ Knife ☐ Tong

How perforated? ☐ Factory ☐ Knife ☐ Tong

Size of perforation inches by inches

Number perforations From To

perforations feet feet

perforations feet feet

perforations feet feet

Well screen installed? ☒ Yes ☐ No

Manufacturer's name JOHNSON CONTINUOUS WIRE WOUND

304 STAINLESS STEEL Model No. TELESPER

Diameter 12" Slot size 250 Set from 24'6" feet to 266'9" feet

Slot size Set from feet to feet

Gravel packed? ☒ Yes ☐ No Size of gravel

from feet to feet

Gravel depth 18' Material used in seal ☒ Cement grout

☐ Pudding clay ☐ Well cuttings

Seal products used ☐ Slurry ☐ Temp. surface casing

☐ Overhaul to seal depth

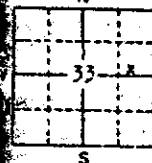
Method of joining casing ☐ Welded ☐ Solvent

Method of joining casing ☐ Welded ☐ Solvent

Describe access port: SANITARY WELL SEAL W/BUILT IN ACCESS PORT

LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name EAST ADDITION

Lot No. _____ Block No. _____

CUSTER

X NE X Sec. 33 T. 14N N.S. R. 19E E.W.

11. DRILLERS CERTIFICATION

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

Firm Name LIBERTY DRILLING Co. Firm No. 3801

Address Box 407 CHALLIS, ID. Date 2-3-81

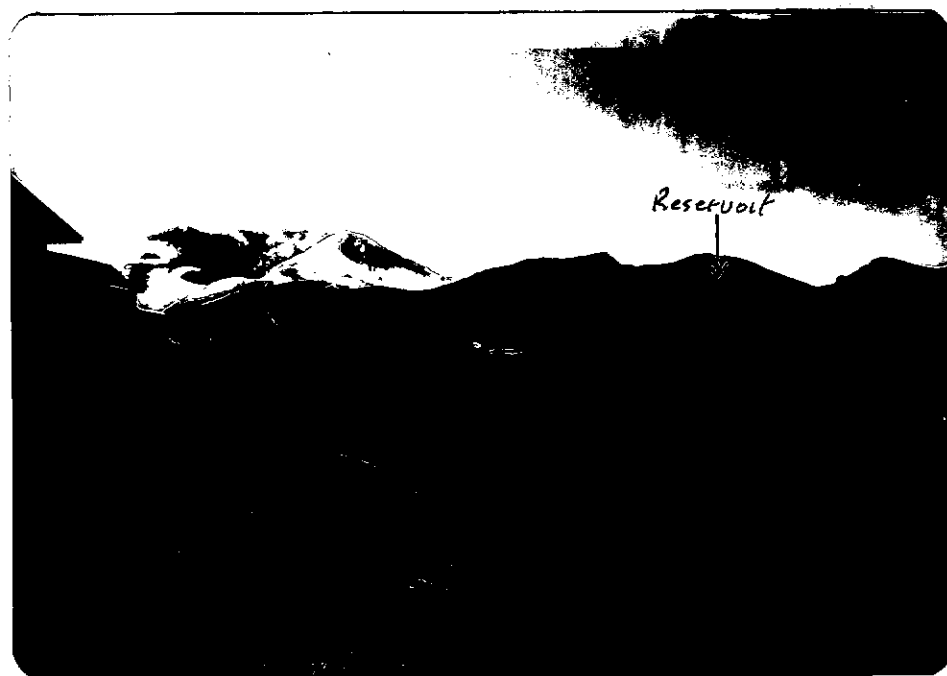
Signed by (Firm Official) BILL LARSEN

and (Operator) BILL ARNEZ

EA 3804
WELL



Pumphouse Interior
East Well



200,000 Gallon
Reservoir in Sec 33

A similar reservoir is
located in sec 32

PHOTOGRAPH

APR 20 1994

72-7117



Pumphouse Interior
West Well #1

Note flow recording
Device on far wall



Pumphouse Interior
West Well #2

APR 20 1994

72-7117

June 25, 1986

RE: Permit No. 72-7117

City of Challis
Challis,
Idaho 83226

Dear Permit Holder(s):

This office acknowledges receipt of the Assignment of the above referenced permit to you.

Enclosed for your records is a copy of the permit. Be sure to note the special conditions of approval on the fourth page that identify requirements necessary for developing the permit into a licensed water right.

In reviewing the permit, we find that the requirement for submitting of proof of construction of works and application of water to beneficial use has been met. The next step towards licensing of the permit will be for our regional office to examine your water right system.

If you have any questions regarding this matter, please feel free to contact us.

Sincerely,

JIM JOHNSON
Water Rights Supervisor

JJ:sc
Enclosures

ENCLOSURE

Permit No. 72-7117

ASSIGNMENT REVIEW CHECK LIST

1. Signature of Permit Holder? Yes
2. Notary? Yes
3. a. Full Assignment? Yes
b. Partial Assignment?
4. "No assignment" condition on permit? - NO
5. Commencement of Works received? - N/A - Proof Rec'd
a. Commencement of works requested? N/A
b. Show Cause Order drafted & sent?
c. Cancellation necessary?
6. Affidavit of residency required? - NO
7. Extension granted due to litigation? - NO
(If yes, commencement of works is not required.)

1. Type permit summary sheet. ✓ Shavla
2. Coding sheet. ✓ Shavla
3. Acknowledgement letter type. # 1 a
4. Copy to region. ✓ Shavla

Date 6-10-86

Employee Juni

MICROFILMED

Cyprus Thompson Creek

Post Office Box 62
Clayton, Idaho 83227
Telephone (208) 838-2200

May 20, 1986

RECEIVED
MAY 28 1986

Mr. Jim Johnson
Idaho Department of Water Resources
450 West State Street
Boise, Idaho 83720

Department of Water Resources

Dear Mr. Johnson:

Please find enclosed, an executed Assignment of Permit form transferring full title and interest of Cyprus Mines Corporation in Permit No. 72-7117 to the City of Challis.

Very truly yours,



Dale J. Schmutz
Administrative Manager

DJS:rk/d

Enclosure

MICROFILMED

CYPRUS



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS
Governor

A. KENNETH DUNN
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

March 10, 1986

Kent W. Foster
Holden, Kidwell, Hahn & Crapo
Idaho First National Bank Bldg.
P.O. Box 129
Idaho Falls, ID 83402

Re: Permit No. 72-7117 (Cyprus Mines Corp.)

Dear Kent:

Phil Rassier forwarded your February 28, 1986 letter to me for research and response.

I have enclosed a copy of Permit No. 72-7117, which originally proposed three wells in Challis, Idaho. I cannot determine from the file if these are the wells turned over to the City of Challis by Cyprus, but I think this permit shows the information you are seeking. Proof of beneficial use has been submitted to the Department.

If you have any questions, please do not hesitate to contact this office.

Sincerely,

L. GLEN SAXTON
Chief, Operations Bureau

Is

Enclosure

cc: Southern Region
Phil Rassier

MICROFILMED

*sent an assignment form to Betty Horn, City Clerk
Box 587, Challis - 5/22/86 kw*

INTER-DEPARTMENT MEMO — 1

FROM

Phil Rassier

DATE

3/5/86

TO

Glen Saxton

SUBJECT

Keppner v. IDWR and City of Challis

Attached is a letter from Kent Foster dated 2/28/86 requesting information from the department regarding some wells which were conveyed to the city of Challis by Cypress in 1983. Could you kindly provide any of the information which Kent has requested.


SIGNATURE

LAW OFFICES
HOLDEN, KIDWELL, HAHN & CRAPO

IDAHO FIRST NATIONAL BANK BUILDING
P.O. BOX 129

IDAHO FALLS, IDAHO 83402

TELEPHONE 523-0620
AREA CODE 208

ARTHUR W. HOLDEN (1877-1967)
ROBERT B. HOLDEN (1911-1971)
TERRY L. CRAPO (1939-1982)

WILLIAM S. HOLDEN
R. VERN KIDWELL, P.A.
FRED J. HAHN
KENT W. FOSTER
ROBERT E. FARNAM
WILLIAM D. FALER
STEPHEN E. MARTIN
CHARLES A. HOMER
GARY L. MEIKLE
CURT R. THOMSEN
RANDALL K. BARTON
MICHAEL D. CRAPO
JAMES D. HOLMAN
GAYLE A. SORENSON
DONALD L. HARRIS
GREGOR S. CHVISUK
RANDALL B. REED
G. LANCE NALDER

RECEIVED
MAR 5 1986

February 28, 1986

Department of Water Resources

Phillip J. Rassier, Esq.
Deputy Attorney General
Idaho Department of Water Resources
Statehouse
Boise, Idaho 83720

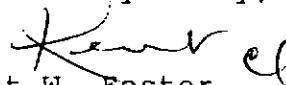
RE: Keppner vs. IDWR and City of Challis

Dear Phil:

Myrna South has recently sent us some interrogatories which we have answered and I believe we have sent copies to you. We indicated in those answers that we did not have any of the documentation regarding the Cypress Wells which were conveyed to the city back in 1983 and that we had requested that information from the Idaho Department of Water Resources. As we review the file, I cannot find that we have, in fact, requested that information and perhaps it was because we don't seem to have the information as to their location or any of the other amounts. They refer to them only as the East Well and West Wells Nos. 1 and 2. Apparently there is also a well called the City Well for which we do not have documentation either.

Although I realize this is very limited information, I wonder whether it would be possible to have someone there see if they can find some permits or licenses or some other documentation regarding any or all of the four wells. If you can, would you please send them to us together with the bill for the copies. Thanks again for your continued assistance.

Yours very truly,


Kent W. Foster

KWF:cl/#6761.00

MICROFILMED



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
SOUTHERN REGION

John V. Evans
Governor

A. Kenneth Dunn
Director

1041 Blue Lakes Blvd. North
Twin Falls, Idaho 83301
(208) 734-3578

November 5, 1984

Jamie Sturgess, Environmental Supervisor
Cyprus Thompson Creek
P.O. Box 755
Challis, ID 83326

Dear Jamie:

Below is a list of current water permits in the name of Cyprus and their status:

NUMBER	SOURCE	STATUS	USE & LOCATION
72-7100	Groundwater (Pit sump)	Proof due 6/1/85	Industrial at mine
72-7101	Groundwater	Exam pending	Domestic at Squaw Cr. camp
72-7083	Groundwater	Lapsed 9/1/84 May reinstate until 11/16/84	Mining & Domestic at mine
72-7084	Groundwater	Lapsed 9/1/84 May reinstate until 11/16/84	Mining & Domestic at mine
72-7117	Groundwater	Exam pending	Irrig., Domestic, Commercial; 800 units at Challis
72-7193	Salmon River	Proof due 8/1/87	Industrial at mine
72-7219	Groundwater	Exam pending	Industrial at mine
72-7220	Groundwater	Exam pending	Industrial, Dom. at mine
72-7257	Bruno Cr.	Exam pending	Storage in tailings & seepage dams

Please note that permits 72-7083 and 72-7084 have lapsed, but may be reinstated if proof of beneficial use or applications for extension of time are filed by Nov. 16, 1984. Proof cards and extension of time forms are enclosed.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Southern Region

1041 Blue Lakes Blvd. N.
Twin Falls, Idaho 83301
(208) 734-3578

JULY 28, 1983

CYPRUS THOMPSON CREEK MINING CO.
P.O. BOX 755
CHALLIS ID 83226

RE: Permit No. 72-7117

Dear Permit Holder:

We acknowledge receipt of your statement submitted as proof of beneficial use for the above referenced permit.

Before a license can be issued, a field examination must be made by a representative of this department.

A field examiner will contact you to arrange to examine your system.

If you have any questions regarding the field examination, please contact this office by phone at 734-3578 or in person at our office at 1041 Blue Lakes Blvd. N. Twin Falls, Idaho.

Sincerely,
s/Mary A. Newby
Secretary

MICROFILMED

DEPARTMENT OF WATER RESOURCES

Townsite wells

The Idaho Department of Water Resources will consider this card as a statement that the permit holder(s) has completed development to the extent shown below of Permit 72-7117.

Name(s) of Permit Holder: Cyrus Thompson Creek Mining Co.

Post Office Address: PO Box 755

Challis Idaho 83226 Tel. No. 838-2200

Source of Water: Groundwater wells

Extent of Use: ☒ Domestic 400+ (number of households)
☐ Stockwater _____ (number and type of stock)
☐ Irrigation _____ (acres)
☐ Other _____ *pc*

Measuring Device: Required? ☒ Yes ☐ No Installed? ☒ Yes ☐ No
 Access Port: Required? ☐ Yes ☒ No Installed? ☐ Yes ☒ No

The above information is a true statement of the extent to which the above numbered permit has been developed.

28 June 1983
Date

X [Signature]
Signature of Permit Holder

Cyrus Thompson Creek Mining Co.

PO Box 755 Challis, Id.

83226



IDAHO DEPARTMENT OF WATER RESOURCES
STATEHOUSE
BOISE, IDAHO 83720

Department of Water Resources
Southern District Office
1978

APR 11 1978

RECEIVED

RECEIVED



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
SOUTHERN REGION

John V. Evans
Governor

C. Stephen Allred
Director

1041 Blue Lakes Blvd. North
Twin Falls, Idaho 83301
(208) 734-3578

January 20, 1983

Ellsworth Engineering
140 North Corner Avenue
P. O. Box 2336
Idaho Falls, Idaho 83401

Re: Permit ~~72-7082~~ 7117

Attn: Rance Bare

Dear Mr. Bare:

As we indicated to you this past year, before we can issue a license under Permit 72-7082 we will need the following information:

- 1) Make of motor & serial number
- 2) Make of the pump & serial number
- 3) Measurement of each well
- 4) Size of the storage tanks

Please forward this information so we can complete the licensing.

If you have questions concerning this matter please feel free to contact this office.

Sincerely,

Gary L. Funderburg
Sr. Water Resource Agent

LOH:GLF:marya

Ellsworth Engineering, Inc.

Consulting Engineers & Land Surveyors

140 NORTH CORNER AVE. P.O. BOX 2336 IDAHO FALLS, IDAHO 83401 PHONE: 208/523-1662

RECEIVED

APR 24 1981

Department of Water Resources
Southern District Office

April 22, 1981

Mr. Gary Funderburg
State of Idaho
Dept. of Water Resources
1041 Blue Lakes Blvd. North
Twin Falls, Idaho 83301

Re: Permit No. 72-7117

Dear Mr. Funderburg:

Confirming our telephone conversation of Tuesday, April 21th, we understand that the requirement placed on the above referenced permit for the placement of an access port for installation of measuring equipment will not be required so long as a permanent measuring facility is installed in the wellhouse.

Please be advised that we are installing a BIF 1% orifice meter as a portion of our permanent improvements and we will therefore not install the above mentioned access port.

If there is any misunderstanding in our conversation please advise us immediately.

Thank you very much.

Yours truly,

ELLSWORTH ENGINEERING, INC.

Rance Bare
Rance Bare, P.E.

cc: Bob Sheldon
Bob Smith
M. M. McGee
David R. Tuthill/IDWR/Boise



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS
Governor

C. STEPHEN ALLRED
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

April 10, 1981

Cyprus Mines Corp.
1026 W. 1st Street
Reno, Nevada 89503

Dear Sirs,

RE: Permit No. 72-7117

Enclosed is a copy of your approved Application for Permit. We direct your attention to the conditions of approval as listed on the fourth page.

Be sure to note the special condition requiring you to install an access port or other device to provide for the installation of measuring equipment by the Department. Enclosed are specifications for the installation of the access port, as well as a list of measuring device options.

Sincerely,

A handwritten signature in cursive script that reads "David R. Tutthill Jr.".

DAVID R. TUTHILL, JR.
Supervisor, Water Allocations Section

DRT:mr

Enclosure

WILLIAM E. NORK, Inc.

1026 W. First Street • Reno, Nevada 89503

CONSULTING SERVICES IN HYDROLOGY AND GEOLOGY
Phone (702) 322-2604

March 25, 1981
81-126A

RECEIVED

MAR 30 1981

Department of Water Resources
Southern District Office

Gary Funderberg
Department of Water Resources
1041 Blue Lakes Blvd. North
Twin Falls, ID 83301

RE: CYPRUS MINES CORPORATION Water Rights Permit No. 72-7117.

Dear Mr. Funderberg:

The referenced permit calls for diversion of water from three points. Point A is SE,NE,Sec. 33, 14N/19E, and called the East Well. Point B is SE,NW, Sec. 32, and called West Well No.1. Point C is NE,SW, Sec. 32, and called West Well No. 2.

Completion of the East Well, with tie into a water distribution system and installation of a production pump (only) into West Well No. 1, is planned and will be implemented upon receipt of approved permit.

West Well No. 2, however, is not planned for immediate completion and/or equipping with pump. At present, the site of West Well No. 2 consists of a 603 foot deep, 8-7/8 inch diameter borehole. The top 18 feet consists of a nominal 12-inch diameter borehole and nominal 10-inch blank casing with welded one-quarter inch cap plate.

Numerous options are under consideration for the ultimate completion of West Well No. 2. Among these are:

1. Complete it as a slim well with nominal eight-inch casing and screen plus install an acceptable 18 foot deep sanitary seal. The well would then be equipped with a pump capable of producing 100 to 150 gpm.
2. Remove existing casing, ream the hole to about 16-inch diameter, install nominal 12-inch casing and screen, plus install an acceptable 18 foot deep sanitary seal. The well could then be equipped with a pump capable of producing 500 to 600 gpm.
3. Remove existing casing and formally abandon the hole.

Firm decision regarding which of the several options might be exercised will likely not be made in the immediate future. We realize, however, that according to Idaho Drilling Code, something must be done with the hole. If the hole was formally abandoned all options for eventual construction as a well would disappear. We wonder, therefore, if the hole could be "temporarily" abandoned in such a manner as to prevent contamination of the ground water system, eliminate the possibility of intermingling of ground waters at depth, but, at the same time allow for reentry

RECEIVED

March 25, 1981

Page 2

to the hole for completion as a water supply well. This would entail removal of surface casing, filling the hole with puddling clay from 603 to about 60 foot depth, installation of a drillable plug from 40 to 60 foot depth (so as to separate shallow from deeper water bearing zones), filling the hole from 40 to about 5 foot depth with puddling clay, and finally, installing a concrete plug from 5 feet to ground surface.

The proposed "temporary" abandonment plan above very nearly approximates a formal abandonment procedure, except for the drillable plug versus a permanent plug between 40 and 60 foot depth.

If this plan for West Well No. 2 is acceptable we will appreciate hearing from you and will proceed along the plan outlined. Please contact me if there are any questions.

Very truly yours,

WILLIAM E. NORK, INC.



William E. Nork

WEN:bh

cc: Bob Smith
John K. Sullivan
Rance Bare
WEN (Challis Office)

RECEIVED
MAR 26 1981
WATER RESOURCES
DIVISION

WILLIAM E. NORK, Inc.



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
SOUTHERN REGION

John V. Evans
Governor

C. Stephen Allred
Director

1041 Blue Lakes Blvd. North
Twin Falls, Idaho 83301
(208) 734-3578

January 21, 1981

William E. Nork, Inc.
Cyprus Mines Corporation
950 E. Greg Street
Sparks, Nevada 89431

Re: Application for Permit No. 72-7117

Dear Mr. Nork:

Enclosed is your receipt No. 16774 for check No. 92-297-1065 in the amount of \$75.00 and check No. 94-1 - 2537 in the amount of \$70.00 for the above referenced application for permit which was received in this office January 21, 1981.

If you have any questions concerning this matter, please feel free to contact this office.

Sincerely,

Mary A. Hill
Sr. Secretary

for

Loren O. Holmes
Southern Region Supervisor

Encl:

MICROFILMED

sent copy to Cyprus Mines Co.

AFFIDAVIT OF PUBLICATION

State of Idaho, County of Custer, ss:

I, MARGARET PARKS

Publisher of the Challis Messenger, a weekly newspaper, published at Challis, Idaho, do solemnly swear that the notice hereto attached and made a part hereof, was published in the regular and entire issue of the Challis Messenger for ²

consecutive weeks, commencing with the issue dated Feb 5

19⁸¹ and ending with the issue dated Feb 12 19⁸¹

Margaret Parks

Subscribed and sworn to before this 20 day of Mar 19⁸¹

[Signature]

Notary Public, residing at Challis, Idaho. My commission expires on

4-30-83

(1.20 CFS) from 01/01 to 12/31.

Place of Use: SESE Sec 32 T 14N R 19E SWSW SESW NESE NWSE SWSE SESE Sec 33 T 14N R 19E SWNW SENW NWSW SWSW Sec 34 T 14N R 19E FOR 413 ACRES

Diversion Means: WELLS, PUMPS, PIPELINE TO STORAGE

If issued, the permit(s) will be subject to all prior water rights. Protests against the granting of any permit must be filed with the Director of the Idaho Department of Water Resources, 1041 Blue Lakes Blvd. North, Twin Falls, Idaho 83301 and received on or before FEBRUARY 23, 1981.

C. STEPHEN ALLRED

Director

pub. 2/5/ & 2/12/81

NOTICE OF APPLICATON FOR WATER RIGHT

Notice is hereby given that the following application(s) have been submitted for permit to appropriate the public waters of the State of Idaho:

72-7117

CYPRUS MINES CORPORATION

P.O. BOX 755, CHALLIS, ID 83226

Source: GROUNDWATER

Date Filed: 01/19/1981

Amount: 6.00 CFS

Diversion Point: SENW NESW Sec 32 T 14N R 19E SENE Sec 33 T 14N R 19E, CUSTER Co.

Use: IRRIGATION (4.30 CFS) from 04/01 to 11/01; COMMERCIAL (0.50 CFS) from 01/01 to 12/31; DOMES-



RECEIVED

MAR 24 1981

Department of Water Resources
Southern District Office

ok
mays

NOTICE OF APPLICATION FOR WATER RIGHT

Notice is hereby given that the following application(s) have been submitted for permit to appropriate the public waters of the State of Idaho:

22-2117

CYPRUS MINES CORPORATION

P.O. BOX 755, CHALLIS, ID 83226

Source: GROUNDWATER

Date Filed: 01/19/1981

Amount: 6.00 CFS

Diversion Point: SENW NESW Sec 32 T 14N R 19E SENE Sec 33 T 14N R 19E,
CUSTER Co.

Use: IRRIGATION	(4.30 CFS)	from 04/01 to 11/01
COMMERCIAL	(0.50 CFS)	from 01/01 to 12/31
DOMESTIC	(1.20 CFS)	from 01/01 to 12/31

Place of Use: SESE Sec 32 T 14N R 19E SWSW SESW NESE NWSE SWSE SESE
Sec 33 T 14N R 19E SWNW SENW NWSW SWSW Sec 34 T 14N R 19E
FOR 413 ACRES

Diversion Means: WELLS, PUMPS, PIPELINE TO STORAGE

If issued, the permit(s) will be subject to all prior water rights. Protests against the granting of any permit must be filed with the Director of the Idaho Department of Water Resources, 1041 Blue Lakes Blvd. North, Twin Falls, Idaho 83301 and received on or before FEBRUARY 23, 1981.

C. STEPHEN ALLRED

Director

Published 2/5/ & 2/12/81.

RECEIVED
FEB 23 1981
IDAHO DEPT OF WATER RESOURCES
TWIN FALLS, IDAHO

MICROFILMED

ok
mace
2/17/81

**NOTICE OF APPLICATION
FOR WATER RIGHT**

Notice is hereby given that the following application(s) have been submitted for permit to appropriate the public waters of the State of Idaho:

72-7117

CYPRUS MINES CORPORATION

P.O. BOX 755, CHALLIS, ID 83226

Source: GROUNDWATER

Date Filed: 01/19/1981

Amount: 6.00 CFS

Diversion Point: SENW

NESW Sec 32 T 14N R 19E

SENE Sec 33 T 14N R 19E,

CUSTER Co.

Use: IRRIGATION (4.30 CFS) from 04/01 to 11/01; COMMERCIAL (0.50 CFS) from 01/01 to 12/31; DOMESTIC (1.20 CFS) from 01/01 to 12/31.

Place of Use: SESE Sec 32 T 14N R 19E SWSW SESW NESE NWSE SWSE SESE Sec 33 T 14N R 19E SWNW SENW NWSW SWSW Sec 34 T 14N R 19E FOR 413 ACRES

Diversion Means: WELLS, PUMPS, PIPELINE TO STORAGE

If issued, the permit(s) will be subject to all prior water rights. Protests against the granting of any permit must be filed with the Director of the Idaho Department of Water Resources, 1041 Blue Lakes Blvd. North, Twin Falls, Idaho 83301 and received on or before FEBRUARY 23, 1981.

C. STEPHEN ALLRED

Director

pub. 2/5/ & 2/12/81

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Southern Region

1041 Blue Lakes Blvd N.
Twin Falls, Idaho 83301
(208) 734-3578

JANUARY 22, 1981

Custer Publishing Company
P. O. Box 405
Challis, Idaho 83226

Gentlemen:

Enclosed you will find a legal notice which we wish to have published on the dates indicated (once a week for two consecutive weekly issues) in your newspaper. We have allowed ample time for you to submit a galley proof to this office for review before the first publication date. If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. Your cooperation is appreciated.

Please send the affidavit of publication and publication billing to this office before FEBRUARY 23, 1981.

Yours truly,

Mary A. Hill
Secretary

Encl.

RECEIVED
JAN 23 1981