

Water Right Conditions
Tracking Slip

Groundwater/Hydrology Section

FILE ## G-15173

ROUTED TO: WATER RIGHTS

TOWNSHIP/

RANGE-SECTION: 395/5W-6

CONDITIONS ATTACHED? []yes []no

REMARKS OR FURTHER INSTRUCTIONS:

Reviewer: Ivan Gall

Application No. G 15173
Permit No.

Water Resources Department

MEMO

9-11-2000

TO Application G- G 15173

FROM GW: Ivan Gall
(Reviewer's Name)

SUBJECT Scenic Waterway Interference Evaluation

Yes

The source of appropriation is within or above a Scenic Waterway.

No

Yes

Use the Scenic Waterway condition (C)

No

PREPONDERANCE OF EVIDENCE FINDING: (Check)

At this time the Department is unable to preponderance of evidence that the project will measurably reduce the surface water and maintain the free-flowing character of a quantities necessary for recreation, fish

8-25-00
PASSED TO IVAN
GALL FOR REVIEW
EXPECTED REVIEW
DATE: WEEK OF
8-28-00

FLOW REDUCTION: (To be filled out only if Preponderance of Evidence box is not checked)

Exercise of this permit is calculated to reduce monthly flows in _____ Scenic Waterway by the following amounts expressed as a proportion of the consumptive use by which surface water flow is reduced.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Application No. G 15173
Permit No.

TO: Water Rights Section

SEPT 4 2000
199

FROM: Groundwater/Hydrology Section IVAN K. GALL ✓
Reviewer's Name

SUBJECT: Application G- 15173

GROUNDWATER/SURFACE WATER CONSIDERATIONS

1. PER THE Basin rules, one or more of the proposed POA's is/is not within _____ feet/mile of a surface water source (_____) and taps a groundwater source hydraulically connected to the surface water.
2. BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use
 - a. ___ will, or _____ have the potential for substantial interference with the nearest
 - b. will not surface water source, namely MUNGER CREEK; or
 - c. ___ will if properly conditioned, adequately protect the surface water from interference:
 - i. ___ The permit should contain condition #(s) _____;
 - ii. ___ The permit should contain special condition(s) as indicated in "Remarks" below;
 - iii. ___ The permit should be conditioned as indicated in item 4 below; or
 - d. ___ will, with well reconstruction, adequately protect the surface from substantial interference.

GROUNDWATER AVAILABILITY CONSIDERATIONS

3. BASED UPON available data, I have determined that groundwater for the proposed use
 - a. will, or _____ likely be available in the amounts requested without injury to prior rights
 - b. ___ will not and/or within the capacity of the resource; or
 - c. ___ will if properly conditioned, avoid injury to existing rights or to the groundwater resource:
 - i. ___ The permit should contain condition #(s) _____;
 - ii. ___ The permit should contain special condition(s) as indicated in "Remarks" below;
 - iii. ___ The permit should be conditioned as indicated in item 4 below; or
4.
 - a. ___ THE PERMIT should allow groundwater production from no deeper than _____ ft. below land surface;
 - b. ___ The permit should allow groundwater production from no shallower than _____ ft. below land surface;
 - c. ___ The permit should allow groundwater production only from the _____ groundwater reservoir between approximately _____ ft. and _____ ft. below land surface;
 - d. ___ Well reconstruction is necessary to accomplish one or more of the above conditions.
 - e. ___ One or more POA's commingle 2 or more sources of water. The applicant must select one source of water per POA and specify the proportion of water to be produced from each source.

REMARKS: SEE MEMO OF 9-11-2000 W/ PROPOSED CONDITIONS

7B, 7C, NEW LANGUAGE - attached ->

(Well Construction Considerations on Reverse Side)

Application No. G 15173
Permit No.

WELL CONSTRUCTION (If more than one well doesn't meet standards, attach an additional sheet.)

JOSE 8289 & JOSE 13777

5. THE WELL which is the point of appropriation for this application ~~does~~ not meet current well construction standards based upon:
- a. review of the well log;
 - b. field inspection by _____;
 - c. report of CWRE _____;
 - d. other: (specify) _____
6. THE WELL construction deficiency: N/A
- a. constitutes a health threat under Division 200 rules;
 - b. commingles water from more than one groundwater reservoir;
 - c. permits the loss of artesian head;
 - d. permits the de-watering of one or more groundwater reservoirs;
 - e. other: (specify) _____
7. THE WELL construction deficiency is described as follows: N/A
8. THE WELL a. was, or constructed according to the standards in effect at the time of
b. was not original construction or most recent modification.
c. I don't know if it met standards at the time of construction.

RECOMMENDATION:

- A. I recommend including the following condition in the permit:
"No water may be appropriated under terms of this permit until the well(s) has been repaired to conform to current well construction standards and proof of such repair is filed with the Enforcement Section of the Water Resources Department."
- B. I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Enforcement Section of the Water Resources Department.
- C. REFER this review to Enforcement Section for concurrence.

THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL

I concur in G/H's recommendation A or B above relating to conditioning or withholding the permit
_____, 199____
(Signature)

I do not concur in G/H's recommendation A or B above relating to conditioning or withholding the permit for the following reasons:

_____, 199____
(Signature)

Application No.
Permit No.

9/11/00

To: File G-15173

From: Doug Woodcock

Proposed Permit Conditions: Application G-15173

1) Interference Condition 7B

2) Seven Year Minimum Decline Condition 7C

3) (New Language)

Each well on this permit shall be constructed to produce water from a single aquifer at the location specified above on the permit or certificate. The source of water shall not be changed by any subsequent reconstruction, deepening, or replacement of the well and shall be limited as follows:

Well #	Aquifer or Water Bearing Zone	Other Limits
Well 1	granitic aquifer	no water less than 153 ft below land surface
Well 2	granitic aquifer	no water less than 147 ft below land surface

TO: Water Rights Section SEPT 4, 2000
199
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Reviewer's Name
SUBJECT: Application G- 15173

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G-15173
REMARKS: SEE MEMO OF 9-11-2000 w/ PROPOSED CONDITIONS
7B, 7C, NEW LANGUAGE

(Well Construction Considerations on Reverse Side)

WELL CONSTRUCTION (If more than one well doesn't meet standards, attach an additional sheet*)

JOSE 8289 & JOSE 13777

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_____, 199__
(Signature)

**Water Right Conditions
Tracking Slip**

Groundwater/Hydrology Section

FILE # G-15173

ROUTED TO: WATER RIGHTS

TOWNSHIP/

RANGE-SECTION: 39S/5W-6

CONDITIONS ATTACHED? []yes []no

REMARKS OR FURTHER INSTRUCTIONS:

Reviewer: Ivan Gall

9/11/00

To: File G-15173

From: Doug Woodcock

Proposed Permit Conditions: Application G-15173

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<u>Well #</u>	<u>Aquifer or Water Bearing Zone</u>	<u>Other Limits</u>
Well 1	granitic aquifer	no water less than 153 ft below land surface
Well 2	granitic aquifer	no water less than 147 ft below land surface

WATER RESOURCES DEPARTMENT MEMORANDUM

Date: September 4, 2000
To: Groundwater/Hydrology
From: Ivan Gall – Grants Pass
Subject: GW Application **G-15173**

Applicant: Andreas M. Goldner and Susan Clayton-Goldner
Seek: **82 gpm** for 16.3 acres (12 primary, 4.3 supplemental); asking for **73.35 acre-feet**
From: 2 drilled wells, Williams Creek/Applegate River Sub-Basin, Rogue Basin
Proposed Use: Irrigation (Pasture and hay during April-October)
Quad Name: Williams

Well #1 (**JOSE 8289**) 39S/05W-6dd (SE of the SE) Josephine County
Well elevation at site is ~ 1,700 ft (NGVD 1929)
Munger Creek elevation is ~ 1,720 ft (NGVD 1929)
Well is ~1,700 ft South from Munger Creek
Well is ~600 ft North from unnamed, seasonal tributary to Williams Creek
Well is 185 ft deep with WBZ from 137 to 173 ft bgs
SWLs: 30 ft (7/78 well log); 16.6 ft (7/90 flow test)

Well #2 (**JOSE 13777**) 39S/05W-6dd (SE of the SE) Josephine County
Well elevation at site is ~ 1,700 ft (NGVD 1929)
Well is ~1,400 ft SW from Munger Creek
Well is ~750 ft N from unnamed, seasonal tributary to Williams Creek
Well is 220 ft deep with WBZs from 120 to 180 ft bgs
SWLs: 20 ft (3/89 well log); 24.5 ft (6/00 flow test)

Evaluation Summary

The subject property is located at 3607 Cedar Flat Road west of Williams, Oregon. The property is located south of Munger Creek and northwest of Williams Creek. The proposed ground water use from wells #1 and #2 will be for irrigation of pasture and hay (approximately 12 acres of primary right and 4.3 acres of supplemental right). Well #1 will also be used for domestic water. The applicant is seeking a rate of 82 gallons per minute with a total duty of 73.35 acre-feet.

The bedrock geology in the area is composed of both granitic rocks and metamorphic rocks of the Applegate Group. Based on well locations and material on the well logs, it appears that the two subject wells are completed in the fractured granitic bedrock, with water bearing zones being at least 120 feet below ground surface (bgs). Based on the bedrock source of ground water, and the distances of 1,400 and 1,700 ft to Munger Creek, it is unlikely that significant interference with surface water flows would occur from the proposed use of the two wells. However, it should be recognized that alluvium overlying the bedrock aquifer may be hydraulically connected such that ground water use in the bedrock aquifer could cause or increase downward leakage of ground water.

Ground water occurrence in the area appears to be good, with most wells in sections 5-8 being less than 200 feet deep and producing greater than 5 gpm. GRID lists a total of 108 well logs for these four sections. Of these 108 logs, only 7 well deepenings are listed. These data suggest that the combination of saturated alluvium overlying fractured bedrock has been a relatively reliable source of ground water for the area.

Some long-term water level data from a state observation well (#261, Steve Miller Shop Well) exist for this area (hydrograph is attached). This well is located approximately 6 miles from the subject wells. Water level data collected at well #261, from approximately 1981 to present, indicate a seasonal fluctuation of approximately four to six feet, with no long-term water level declines. Unfortunately, this data is of limited value due to the distance between the subject wells and well #261, and the uncertainty of a well log for well #261.

Four-hour flow tests conducted on wells #1 and #2 do not show any indication of boundary conditions (either recharge or no-flow) being encountered. However, four hours is a short duration for a flow test to evaluate the presence of boundary conditions. The rate of drawdown in both flow tests does appear to be relatively slow, and suggests that the aquifer could sustain discharge rates of approximately 20 gpm in well #1 and 60 gpm in well #2. Note that these tests were not conducted simultaneously.

Recommendation:

The bedrock aquifer appears to be capable of supporting the proposed ground water use for this application. The four-hour flow tests conducted on wells #1 and #2 showed no indication of any boundary conditions, and the rate of drawdown with time near the end of the tests suggests that the aquifer is capable of sustaining the proposed pumping rates of 22 and 60 gpm.

I recommend that the proposed ground water use be approved. The ground water use should be conditioned as follows:

1. Meters on both wells prior to use.
2. Static water levels shall be collected from each well during March of each year, and reported to the department, as long as water is used.
3. Ground water source condition

References:

1. WRD GRID well log database.
2. USGS topographic map, Williams, OR 1:24,000 sheet.
3. Well flow test data supplied by the applicant for Wells #1 and #2.
4. Geohydrological Map, Josephine County, Oregon, by Paul Hughes, 1979.

9/11/00

To: File G-15173

From: Doug Woodcock

Proposed Permit Conditions: Application G-15173

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STATE OF OREGON
WATER WELL REPORT
 (as required by ORS 537.765)

COPY

MAR 13 1989

JOE 1777 3517
 3/15/89 dd
 (START CARD) # _____

IRRIG.
 WELL
 #2

(1) OWNER:

Name Dan Gates
 Address 3607 Cedar Flat Rd
 City Williams State OR Zip 97544

Well Number: WATER RESOURCES DEPARTMENT OF WELL by legal description:
SALEM, OREGON

County Joseph Latitude _____ Longitude _____
 Township 57 N or S, Range 5 E or W, W.M.
 Section 6 SE ¼ SE ¼
 Tax Lot 2001 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) 3607 Cedar Fl
PEL# 2251 SC. 8588

(2) TYPE OF WORK:

New Well Deepen Recondition Abandon

(3) DRILL METHOD

Rotary Air Rotary Mud Cable
 Other _____

(4) PROPOSED USE:

Domestic Community Industrial Irrigation
 Thermal Injection Other _____

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes No Depth of Completed Well 220 ft.
 Yes No
 Explosives used Type _____ Amount _____

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	
10"	0	40	cemt	0	40	12 sacks
6"	40	220				

How was seal placed: Method A B C D E
 Other _____

Backfill placed from _____ ft. to _____ ft. Material _____

Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:

Diameter	From	To	Gauge				
				Steel	Plastic	Welded	Threaded
Casing: 6"	+1	147	0.25	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

Perforations Method none
 Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Pump Bailer Air Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
60		219	X 1 hr.

Temperature of water 53 Depth Artesian Flow Found _____

Was a water analysis done? Yes By whom _____

Did any strata contain water not suitable for intended use? Too little

Salty Muddy Odor Colored Other _____

Depth of strata: _____

(10) STATIC WATER LEVEL:

20 ft. below land surface. Date 3/3/89
 Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 120

From	To	Estimated Flow Rate	SWI
120	180		20

(12) WELL LOG:

Ground elevation _____

Material	From	To	SWI
boulders, brwn clay	0	35	20
black & wht granite and brown clay	35	100	20
rock black & wht fract	100	175	20
rock black & wht hard	175	220	20

RECEIVED

JUN 20 2000

WATER RESOURCES DEPT.
 SALEM, OREGON

Date started 3/3/89 Completed 3/7/89

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

Signed James S. Sulletta WWC Number 1328
 Date 3-10-89

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment of this well during the construction dates reported above. The work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief. Coleman's Well Drilling Co.

Signed D. Keith Coleman Pres. WWC Number 643
 Date 3-10-89

Cedar Flat
Immersible

PUMP TEST DATA SHEET

JACK 8289

APPLICATION NO. _____ PERMIT NO. _____ P.O.D.-ID _____

All water level measurements must either be in 1) feet and inches, or 2) feet and decimal fractions. (Circle one)

DRAWDOWN DATA

RECOVERY DATA

DATE	TIME	TIME SINCE PUMP STARTED (minutes)	DEPTH TO WATER FROM MEASURING PT	CORRECTION FACTOR	DEPTH TO WATER FROM GROUND LEVEL	COMMENTS	DATE	TIME	TIME SINCE PUMP STOPPED (minutes)	DEPTH TO WATER FROM MEASURING PT	CORRECTION FACTOR	DEPTH TO WATER FROM GROUND LEVEL	COMMENTS
6/9/00	8:AM		24'6"	+12"	23'6"	(23'6")	6/9/00	1:02	2	52'9"	-12"	51'9"	
	8:20		24'6"	+12"	23'6"	"		1:04	4	35'9"	-12"	34'9"	
	8:40		24'6"	+12"	23'6"	"		1:06	6	32'1"	-12"	31'1"	
	9:AM		24'6"	+12"	23'6"	"		1:08	8	30'3"	-12"	29'3"	
	9:02	2	49'2"	+12"	48'2"	(48'2")		1:10	10	28'10"	-12"	27'10"	
	9:04	4	64'10"	-12"	63'10"	60 gpm		1:15	15	26'7"	-12"	25'7"	
	9:06	6	67'5"	-12"	66'5"	(^{7 acc.} 7gallon)		1:20	20	25'5"	-12"	24'5"	
	9:08	8	68'6"	-12"	67'6"			1:25	25	24'6"	-12"	23'6"	100% recovery
	9:10	10	68'7"	-12"	67'7"	S=44'1"							
	9:15	15	70'3"	-12"	69'3"	60 gpm							
	9:20	20	70'10"	-12"	69'10"								
	9:25	25	71'2"	-12"	70'2"								
	9:30	30	71'6"	-12"	70'6"	60 gpm							
	9:45	45	72'4"	-12"	71'4"								
	10:00	60	72'10"	-12"	71'10"								
	10:15	75	73'3"	-12"	72'3"								
	10:30	90	73'7"	-12"	72'7"	60 gpm							
	10:45	105	73'11"	-12"	72'11"	S=49'5"							
	11:00	120	74'2"	-12"	73'2"								
	11:15	135	74'5"	-12"	73'5"	60 gpm							
	11:30	150	74'8"	-12"	73'8"								
	11:45	165	74'10"	-12"	73'10"								
	12:00	180	75'	-12"	74'	60 gpm							
	12:15	195	75'1"	-12"	74'1"								
	12:30	210	75'3"	-12"	74'3"								
	12:45	225	75'4"	-12"	74'4"	60 gpm							
	1:PM	240	75'5"	-12"	74'5"								

RECEIVED

JUN 20 2000

WATER RESOURCES DEPT.
SALEM, OREGON

$\Delta S = S_{t=105} - S_{t=10} = 49.41 - 44.08 = 5.37 \text{ ft}$

The original and first copy of this report are to be filed with the WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED
 WATER WELL REPORT
 STATE OF OREGON
 JUL 17 1978
 WATER RESOURCES DEPT.
 SALEM, OREGON

State Well No. 395/SW-6 dd
 State Permit No. CA 15

JOSE 8289

(1) OWNER: WELL #1 (hand on dig)
 Name Manual Pumma
 Address Williams, Oregon

(10) LOCATION OF WELL:
 County Josephine Driller's well number 05-4-5-4
 Section 6 T. 39 R. 5W W.M.

(2) TYPE OF WORK (check):
 New Well Deepening Reconditioning Abandon
 If abandonment, describe material and procedure in Item 12.

Bearing and distance from section or subdivision corner
Tax Lot 2000

(3) TYPE OF WELL:
 Rotary Driven
 Cable Jetted
 Dug Bored

(4) PROPOSED USE (check):
 Domestic Industrial Municipal
 Irrigation Test Well Other

(11) WATER LEVEL: Completed well.
 Depth at which water was first found 90 ft.
 Static level 30 ft. below land surface. Date 5-7-78
 Artesian pressure -0- lbs. per square inch. Date

(5) CASING INSTALLED:
 Threaded Welded
6" Diam. from p-18" ft. to 153" ft. Gage .250
 " Diam. from " ft. to " ft. Gage "
 " Diam. from " ft. to " ft. Gage "

(12) WELL LOG:
 Diameter of well below casing 6
 Depth drilled 185 ft. Depth of completed well 185 ft.

(6) PERFORATIONS:
 Perforated? Yes No.
 Type of perforator used
 Size of perforations in. by in.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated. with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

perforations from " ft. to " ft.
 perforations from " ft. to " ft.
 perforations from " ft. to " ft.

MATERIAL	From	To	SWL
Red loam top soil with medium to large gravel and medium to large boulders	0	12	
Red clay with medium to large boulders	12	52	
Green clay with gravel	52	90	
Decomposed heavy granite Brown in color	90	137	
clean firm green hard pan granite water bearing	137	173	30'
tombstone granite	173	185	30'

(7) SCREENS:
 Well screen installed? Yes No
 Manufacturer's Name
 Type Model No.
 Diam. Slot size Set from ft. to ft.
 Diam. Slot size Set from ft. to ft.

Work started 1-7-78 19 Completed 7-7-78 19
 Date well drilling machine moved off of well 8-7-78 19

(8) WELL TESTS:
 Drawdown is amount water level is lowered below static level
 Was a pump test made? Yes No If yes, by whom?
 Field: gal./min. with ft. drawdown after hrs.
 " " " " " "
 " " " " " "
 bailer test 60 gal./min. with 110 ft. drawdown after 1 hrs.
 Artesian flow -0- g.p.m.
 Temperature of water 54 Depth artesian flow encountered ft.

Drilling Machine Operator's Certification:
 This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
 [Signed] William Shanahan Date 11-7-78 19
 (Drilling Machine Operator)
 Drilling Machine Operator's License No. 905

9) CONSTRUCTION:
 Well seal—Material used Cement Slurry
 Well sealed from land surface to 18' ft.
 Diameter of well bore to bottom of seal 10 in.
 Diameter of well bore below seal 6 in.
 Number of sacks of cement used in well seal 6 sacks
 How was cement grout placed? poured

Water Well Contractor's Certification:
 This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Jose Shanahan Water Well Drilling Co.
 (Person, firm or corporation) (Type or print)
 Address 868 N.E. "A" St. Grants Pass, Oregon
 [Signed] Jose Shanahan
 (Water Well Contractor)
 Contractor's License No. 81 Date 11-7-78, 19

Was a drive shoe used? Yes No Plugs location ft.
 Did any strata contain unusable water? Yes No
 Type of water? depth of strata
 Method of sealing strata off
 Was well gravel packed? Yes No Size of gravel placed from ft. to ft.

RECEIVED
 JUN 20 2000
 WATER RESOURCES DEPT.
 SALEM, OREGON

Test Type: 4 HR FLOW Meter No.: 21745198 Job No.: 90-2979

JACK 13777

HYDRO-FLOW WELL TESTING

P.O. BOX 3937 • CENTRAL POINT, OREGON 97502 • (503) 772-4453 Fax 773-3481
Well Tests Conducted for G.I., F.H.A. and Conventional Financing

RECEIVED

JUN 20 2000

WATER RESOURCES DEPT
SALEM, OREGON

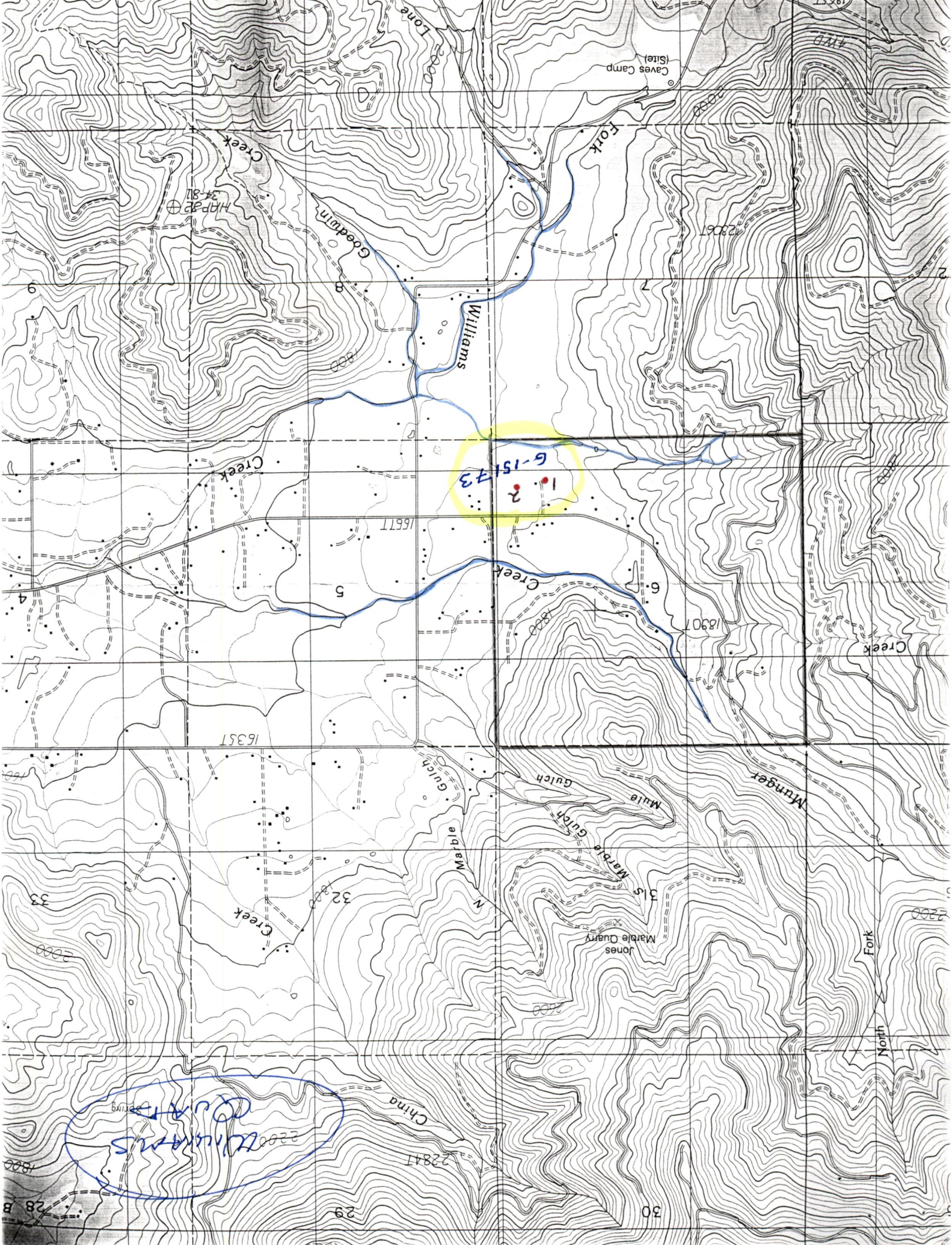
FLOW TEST REPORT

Prepared for: ANDY AND SUSAN GOLDNER
 Address: 11410 N. LA TANYA DR., TUCSON, AR 85937
 Test Site: 3607 CEDAR FLAT RD., WILLIAMS, OR
 Technician: SHAWN CHERRY Date: 7-17-90 Time: 10:10 AM
 Pump Type: SUBMERSIBLE HP: 3 Pump Depth: UNKNOWN
 Inside Diameter of Well: 6" Well Depth: 220' Static Level: 16' 8"
 Drawdown Level: 69' 2" Total Drawdown: 52' 6"
 Recovery Level: 21' 11" Total Recovery: 47' 3" within: 15 Min./Hr.
 Total Gallons Flowed: 4,757.7 Average GPM: 21.1
 Comments: * ACCORDING TO OWNER

TIME	WATER LEVEL	METER READING	GAL/ 15 MIN.	GPM
10:10 am	16' 8"	170416		
10:25	64' 9"	170770	354	23.6
10:40	66' 1"	171083.3	313.3	20.9
10:55	67' 1"	171411.6	328.3	21.9
11:10	67' 1"	171727.8	316.2	21.1
11:25	67' 6"	172027.4	299.6	20
11:40	67' 10"	172340.5	313.1	20.9
11:55	68' 1"	172652.9	312.4	20.8
12:10 pm	66' 8"	172967.3	314.4	21
12:25	68' 6"	173282	314.7	21
12:40	68' 9"	173596.5	314.5	21
12:55	68' 9"	173926.1	329.6	22
1:10	69'	174225.4	299.3	20
1:25	69' 2"	174556.5	331.1	22.1
1:40	68' 11"	174853.5	297	19.8
1:55	69' 2"	175173.7	320.2	21.3
2:10	21' 11"			

I certify that the above report is a true and accurate statement of the results of the flow test of the well at 3607 CEDAR FLATS DR., WILLIAMS, OR conducted on 17 JULY, 19 90.

HYDRO-FLOW WELL TESTING
Lona B Urton
Authorized Signature



Caves Camp (Site)

Creek

Fork

Goedwin

Williams

Creek

Creek

Creek

N Marble Gulch

Mule Marble Gulch

Mungler

Jones Marble Quarry

Fork

North

China

Williams Quarts

22841

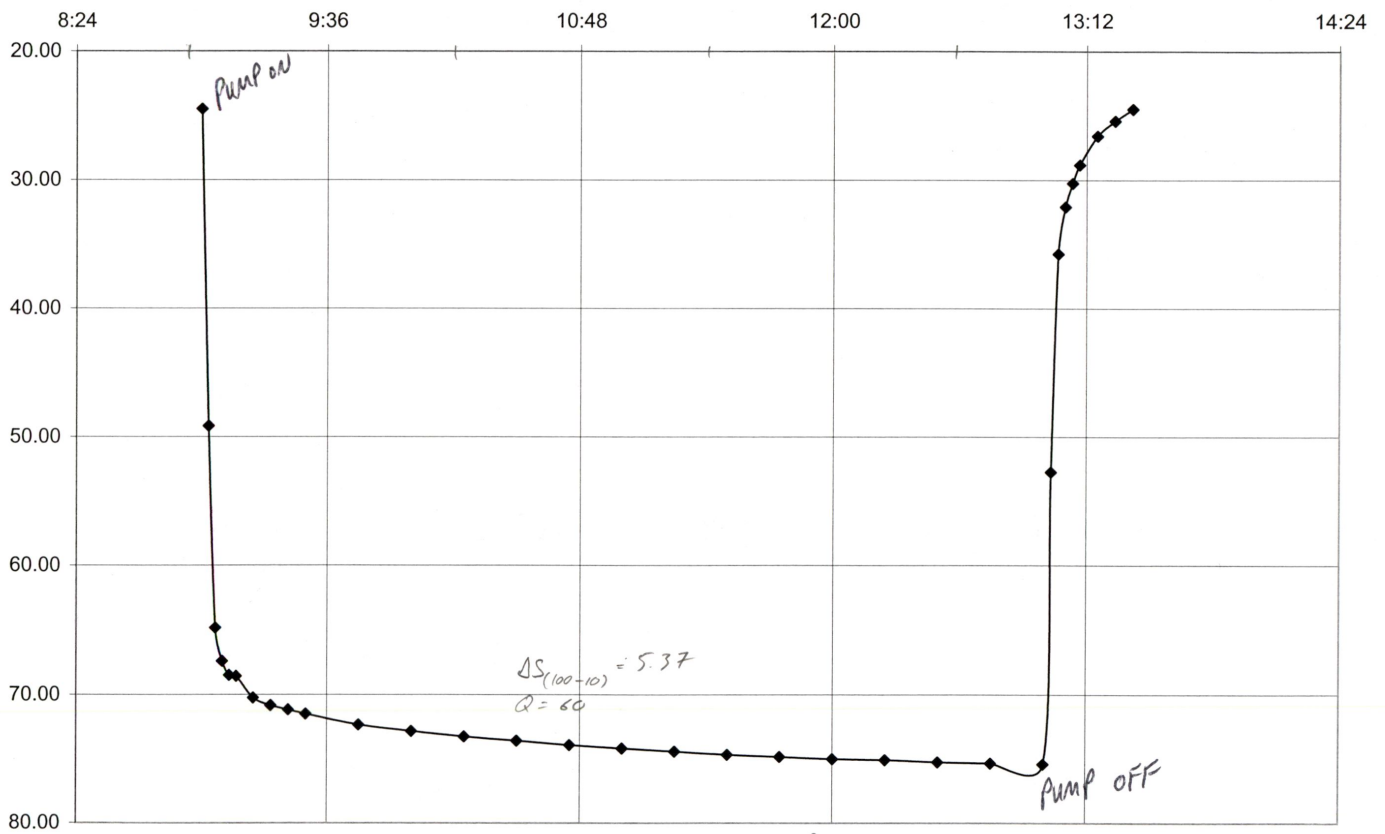
29

30

28 B

WELL #2 G-15173

~~D.W. (feet)~~



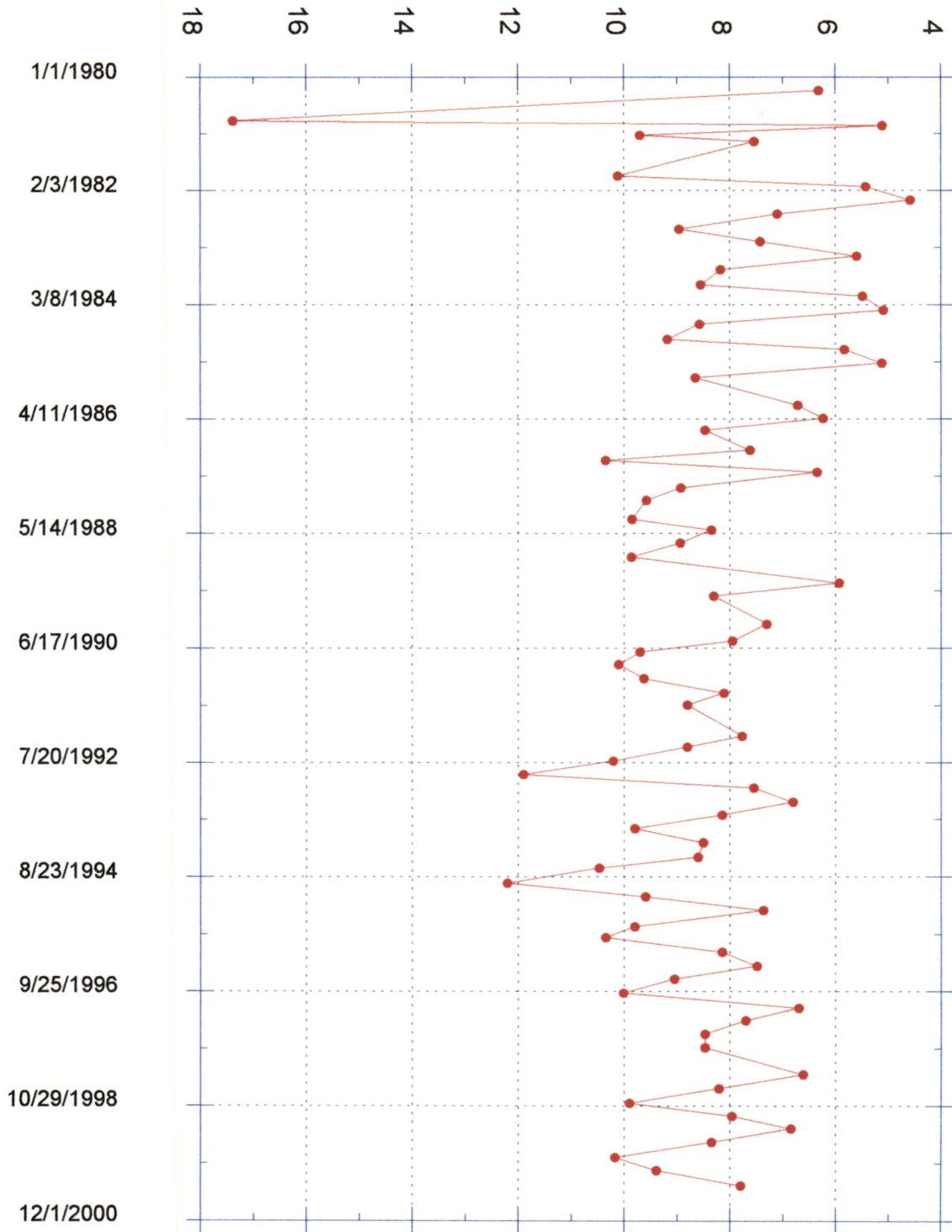
$\Delta S_{(100-10)} = 5.37$
 $Q = 60$

$T = 424 \frac{ft^2}{d} - MST$ $Q = 60 gpm$

$T = \frac{2,303(60 \frac{gpm}{min})}{5.37 \cdot 4 \cdot \pi} = 2.05 \frac{ft^2}{min} (7.48) (\frac{1440}{1}) = 394 \frac{ft^2}{d}$

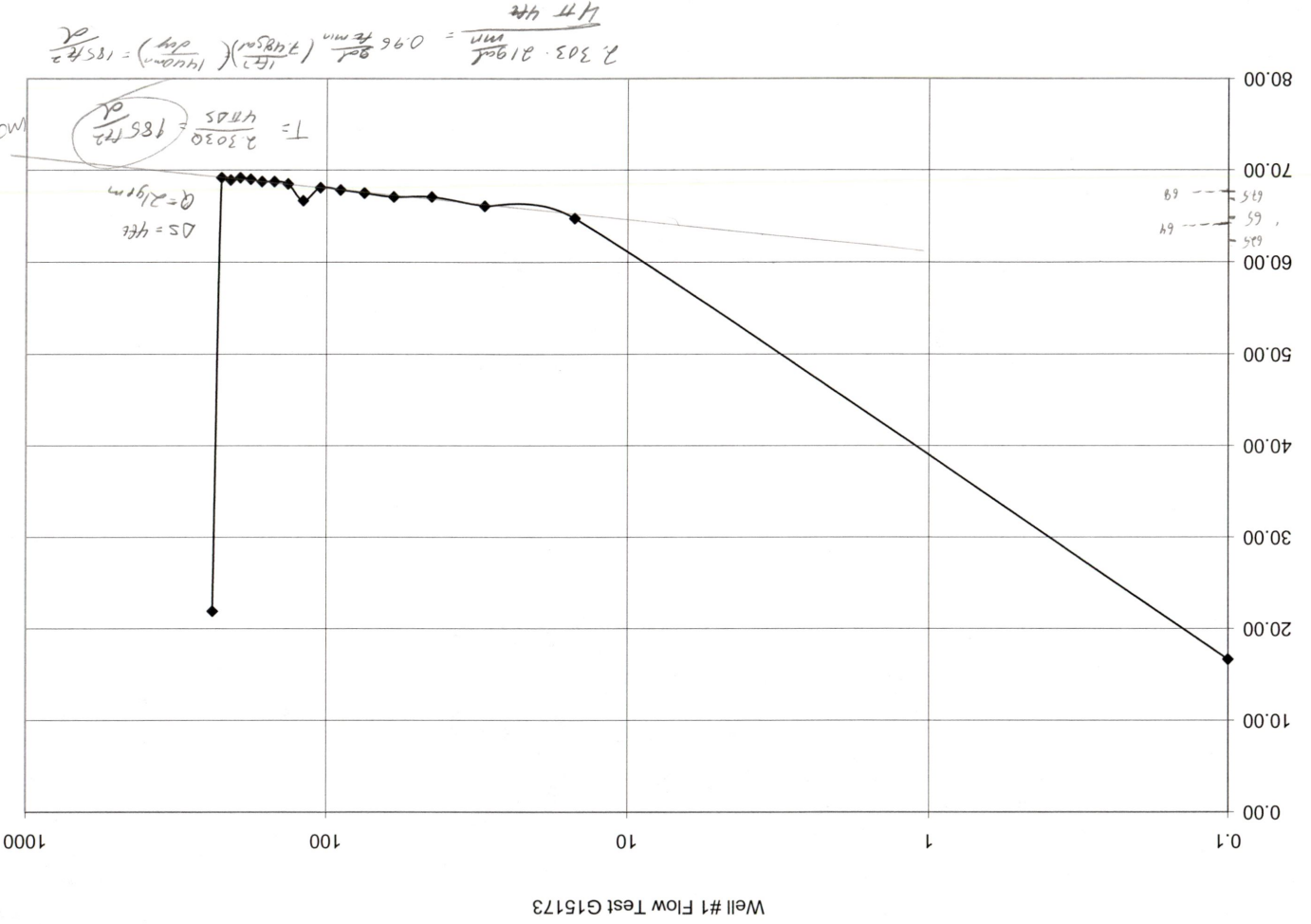
JACK 8289

Water Level (feet below ground)



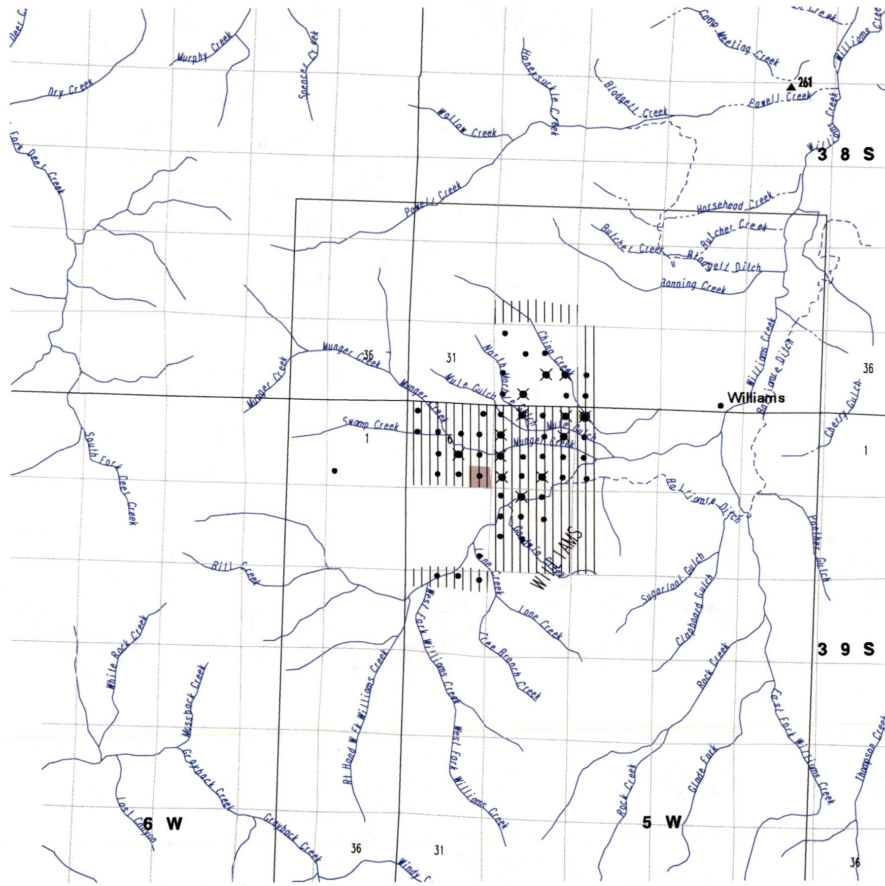
State Observation Well # 261
Steve Miller Shop Well, 38S-5W-14

JACK 13777



Wells in the vicinity of application G 15173

- Application well(s) in this 1/4-1/4 section
- Well(s) identified in this section from OWRD's well log database within 1 mi. radius of application well(s)
- Well(s) identified in this 1/4-1/4 section from OWRD's well log database within 1 mi. radius of application well(s)
- ✕ Permitted well(s) in this 1/4-1/4 section within 1 mi. radius of application well(s)
- Conditioned, permitted well(s) in this 1/4-1/4 section within 5 mi. radius of application well(s)
- ▲ OWRD Observation well and well-id within 5 mi. radius of application well(s)
- Critical GW Area
- - - Regulated GW Area



WELLS WITHIN 1 MILE OF G 15173
 DO 216
 IM 4
 IR 15

PERMITTED WELLS WITHIN 1 MILE OF APPLICATION G 15173

\$RECNO	APPLICATION	PERMIT	LOC-QQ	USE	RATE	DIV-UNITS
1	GR 2762	GR 2613	38.00S 5.00W32NWSE	ID	60.0000	G
1	GR 2763	GR 2614	38.00S 5.00W32NWSE	IR	80.0000	G
2	G 11844	G 10943	38.00S 5.00W32NESE	IR	0.0300	C
3	G 5949	G 5647	38.00S 5.00W32SESW	IR	0.0600	C
4	G 6550	G 6154	39.00S 5.00W 5NENW	IR	0.0400	C
4	G 7702	G 7265	39.00S 5.00W 5NENW	IR	0.0800	C
5	G 13754	G 12741	39.00S 5.00W 5NE NE	FP	0.3300	C
5	G 13754	G 12741	39.00S 5.00W 5NE NE	IC	0.3300	C
5	G 13754	G 12741	39.00S 5.00W 5NE NE	RC	0.0330	C
5	G 13754	G 12741	39.00S 5.00W 5NE NE	RC	0.3300	C
6	G 13813	G 12070	39.00S 5.00W 4NWNW	IR	0.0250	C
7	G 13957	G 12751	39.00S 5.00W 5SWNW	IS	0.1110	C
8	G 12046	G 11588	39.00S 5.00W 5SE NE	IR	0.0200	C
8	G 12046	G 11588	39.00S 5.00W 5SE NE	IR	0.0900	C
8	G 13754	G 12741	39.00S 5.00W 5SE NE	FP	0.0100	C
8	G 13754	G 12741	39.00S 5.00W 5SE NE	IC	0.0100	C
8	G 13754	G 12741	39.00S 5.00W 5SE NE	RC	0.0100	C
9	GR 90	GR 86	39.00S 5.00W 6NWSE	IM	18.0000	G
9	GR 90	GR 86	39.00S 5.00W 6NWSE	IM	24.0000	G
10	G 11172	G 10373	39.00S 5.00W 5NWSW	IC	0.0600	C
11	G 10546	G 9697	39.00S 5.00W 5SWSW	IR	0.1600	C
11	G 10546	G 9697	39.00S 5.00W 5SWSW	IS	0.0800	C
11	G 10546	G 9697	39.00S 5.00W 5SWSW	IS	0.1600	C
12	G 8808	G 8206	39.00S 5.00W 5SWSE	IR	0.0450	C
12	G 10968	G 10149	39.00S 5.00W 5SWSE	IR	0.0200	C
12	G 13977	G 12752	39.00S 5.00W 5SWSE	IS	0.0630	C
13	GR 3060	GR 3819	39.00S 5.00W 8NENW	IR	0.5900	C

CONDITIONED WELLS WITHIN 5 MILES OF APPLICATION G 15173

\$RECNO	APPLICATION	PERMIT	LOC-QQ	CONDITION-CODE
1	G 13813	G 12070	39.00S 5.00W 4NWNW	7BG
1	G 13813	G 12070	39.00S 5.00W 4NWNW	7BR

APPLICATION G 15173 FALLS WITHIN THESE QUAD(S)

WILLIAMS
