

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

SEP 11 1997

Department of Water Resources

A. GENERAL INFORMATION

assigned to;

Permit No. 29-8047

1. Owner: Albert Avanesian Phone No. 648-7152

Current Address: P.O. Box 146 Bancroft, ID 83217

2. Accompanied by: Albert Avanesian EXAM DATE: 28 AUG 96

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: 29-02032A & B / 1340 - Toponce Creek

2. Other water rights with the same point of diversion: _____

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
			NW	SE	34	06S	38E	Caribou	ON SITE / USGS

2. Place(s) of Use:

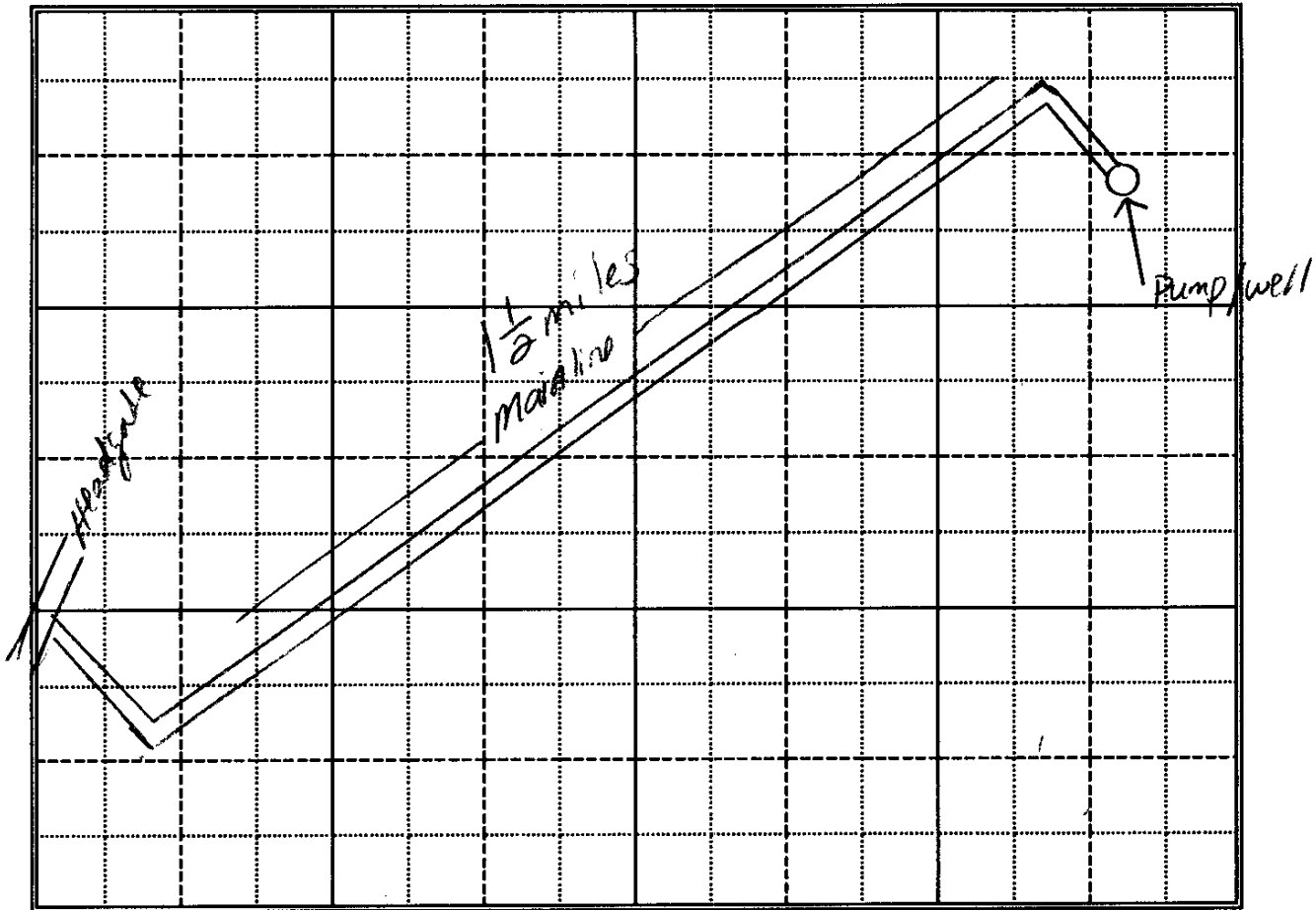
Indicate Method of Determination

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06S	38E	34	10		25	43				5	32	6	1			7			129

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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 ^{Model} Serial No.	Pump Make	Pump Serial No. or Discharge Size
_____	General Electric	100	5K504XA1D	Johnston	_____

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

D. FLOW MEASUREMENTS

1.

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

2. Measurements: Q Meas = 3.86 CFS MICROFILMED

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E. NARRATIVE/REMARKS/COMMENTS

Note: Assigned to Albert Avanesian from James & Carol Guthrie.

Well/Pump to $1\frac{1}{2}$ mile mainline; handlines.

License from 1905 on same place of use. —
Ber & Parley Jensen. — Toponce Creek.

for Q Theoretical = $HP = 100$
 $PSI = 40$
 $Eff = 70\%$

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

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F. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method:

$$Q_{Theor} = \frac{100 \text{ HP} (8.814) \cdot 7 \text{ eff}}{65' \text{ Lift} + (40 \text{ PSI} \times 2.308)} = 3.92 \text{ CFS}$$

$$Q_{meas} = 3.86 \text{ CFS}$$

$$Q_{Limited} \text{ by } 0.02 \text{ CFS/ac to } \underline{\underline{2.58 \text{ CFS}}}$$

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 129 \times 3.5 = 451.5 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 2.58 \times 183 (1.9835) = 936 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\underline{451.5 \text{ AFA}}}$$

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		
<u>Irrigation</u>	<u>4-15</u>	<u>10-15</u>	<u>2.58</u>	<u>451.5</u>
Totals:			<u>2.58 CFS</u>	<u>451.5 AFA</u>

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

I. AUTHENTICATION

Field Examiner's Name Steven Garrison Date 28 AUG 96

Reviewer _____ Date _____

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SETUP NO. _____

PIPE O.D. 3.770 IN
THICKNESS .121

PIPE W/ 10.248 IN

PIPE 1.0 10.24
MATERIAL CARBON STEEL
VELOCITY 1.0

PIPE MATERIAL CARBON STEEL
SOUND VELOCITY 1597.129 F/S

PIPE TYPE	PIPE SOUND VELOCITY	PIPE MATERIAL	PIPE DIRECTION
	10597.129		NONE
			VELOCITY

LINEAR MATERIAL SOUND VELOCITY
0.000 F/S

LINER SOUND 0.000 IN
THICKNESS 0.000 IN

LINEAR THICKNESS 0.000
OF ABS ROUGHNESS 0.00015000

INSIDE ABS 0.0001
MATERIAL WATER
VELO

FLUID MATERIAL
SOUND VELOCITY
1963.338 F/°C

FLUID SOUND 4863.330
VISCOSITY 1.132 cSt
TYPE 500

FLUID VISCOSITY 1.13
PUMPER TYPE STANDARD
PUMPER TYPE STANDARD

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TRANSDUCER ME
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TRANSDUCER 5-8.731

08-28-96

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SCALE FACTOR
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SET OFFSET

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FSET OFFSET
FSET DLY
FSET FAC
FSET STANDARD/V
UP

OFF SET =
OFF DLY: -
DET FAC: -
RATION FAC: STANDARD/V
SER: - - - - - UP 394
794.1280
794.1280

... 394.1 ...

PLY = 394.

[illegible]

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TIME (NS) = 396.4
COUNT = 56.34
          0.0000

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TIME (ms)	COUNT
56.74	0.000
486.3	454.5

ION
- (F/S)
- NO.
- MOTOR

FILE FACTOR = 0.716 CFS
6.480 F

NO. 1
FACTOR

06-28-96

06-28-96
Date

1203961 GAL
109661 GAL

1203961 GHE
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08-28-96
09-05-96
09-12-96

[illegible]

1207337 GAL
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THEORETICAL PUMP FLOW CALCULATIONS

Formula:

$$Q_{cfs} = [(Hp) (8.814) (Eff)] \div [Lift + (psi \times 2.308)]$$

$$Hp = \text{Horsepower} = \underline{100}$$

$$Eff = \text{Efficiency} = \underline{.7} \quad (\text{Usually } 70\%)$$

Lift: (Static Level + Assumed Draw down)

$$\text{Static Water Level} = \underline{45} \text{ ft.}$$

$$\text{Assumed Draw down} = + \underline{20} \text{ ft.}$$

$$\text{Lift} = \underline{65}$$

OR

$$\text{Measured Dynamic Water Level} = \underline{\hspace{2cm}} \text{ ft.}$$

$$psi = \text{Operating Pressure} = \underline{40} \text{ psi}$$

$$Q_{cfs} = \left[\frac{100}{Hp} \times 8.814 \times \frac{.7}{eff} \right] \div \left[\frac{65}{Lift} + \left(\frac{40}{psi} \times 2.308 \right) \right]$$

$$Q_{cfs} = \left[\underline{616.98} \right] \div \left[\underline{157.32} \right]$$

$$Q_{cfs} = \underline{3.92} \text{ cfs}$$

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PERMIT NO. 29-08047

SD-1603-3

Idaho Department Of Water Resources
Detail Receipt Summary Screen

Date: 09/14/01
Time: 10:11:45

Rec/No - C028463 AR/No -
From: - GUTHRIE, JAMES K/CAROL A

Receipt Type - CK Doc/No - 4286
Remarks -

REFUNDED 450.00

Receipt Date: 08/30/1993

Type Of Payment
BENEFICIAL USE #29-08047

Fund	FD	PCA	Obj	Subsid	Fee
229	21	56104	1155		600.00

Total Due - 600.00

WR/No	WR Fee	WR/No	WR Fee	WR/No	WR Fee
-------	--------	-------	--------	-------	--------

(Enter=Continue)

(GOLD7=Selection Screen)

(GOLD8=Cancel)

TR38E

Point
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Diversion

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29-08047

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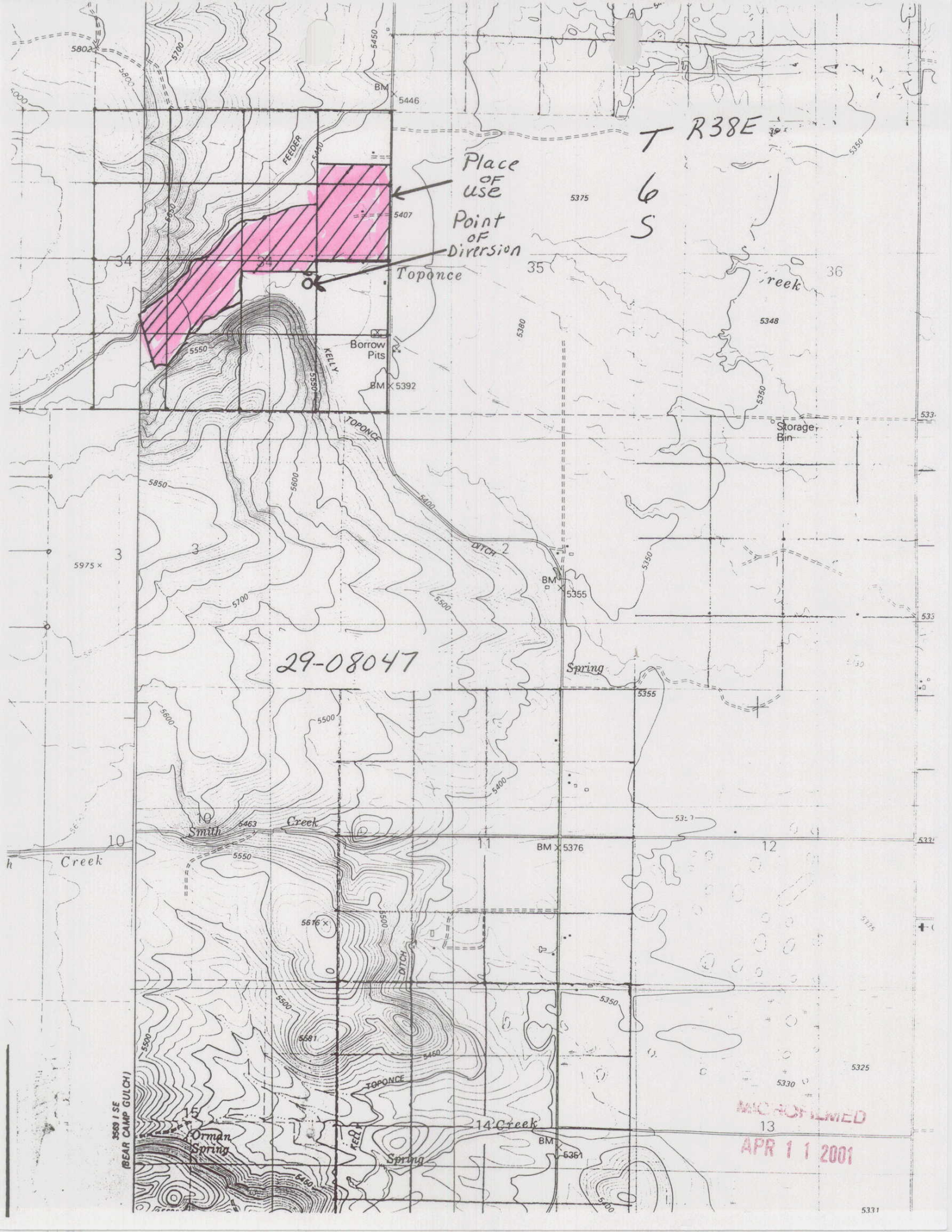
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Place
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Point
OF
Diversion

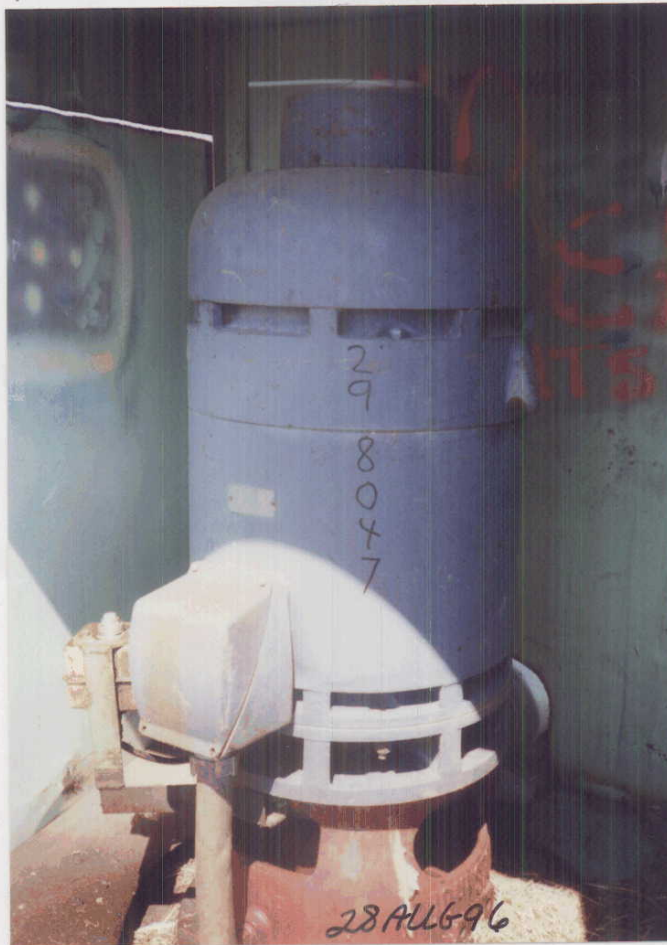
Toponce

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3503 1 SE
(BEAR CAMP GULCH)

Point of Diversion - Pump/Well



Examiner: Steven Garrison

29-8047

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