

Bye

Copy for you. Additional copies can be found in file cabinets beside Sharla Cox attached to permit.
Keith

MEMORANDUM

TO: FILE **29-07984**

January 26, 2001

FROM: Keith C. Wilson

RE: Field Examination

Original exam was completed on August 8, 1995. Review of the exam could not be determine if this permit was for additional acres, amount, or both.

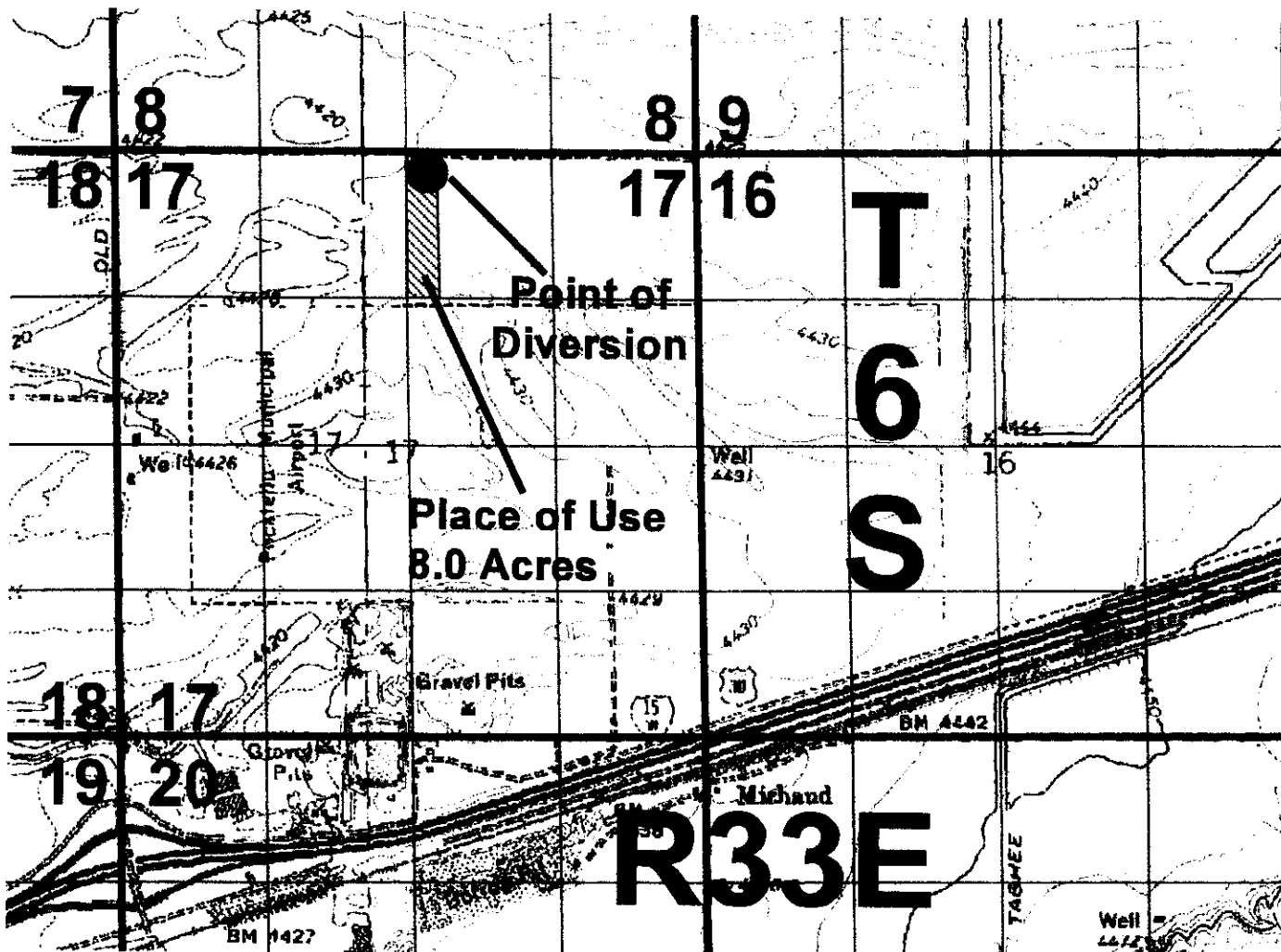
Re-Exam on June 6, 1998, revealed no additional acres. A re-measurement of the diversion rate recorded $Q = 45.46 \text{ gpm} = 0.10 \text{ cfs}$ using a sonic meter.

Recommend using original measurement of $Q = 64.2 \text{ gpm} = 0.14 \text{ cfs}$, and a total irrigated acres = 8.0 acres.



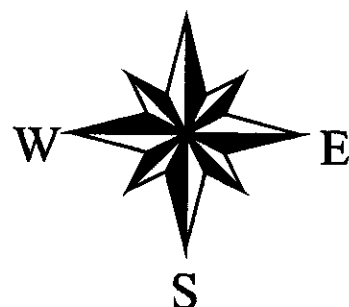
Keith C. Wilson
Senior Resource Agent

29-07984

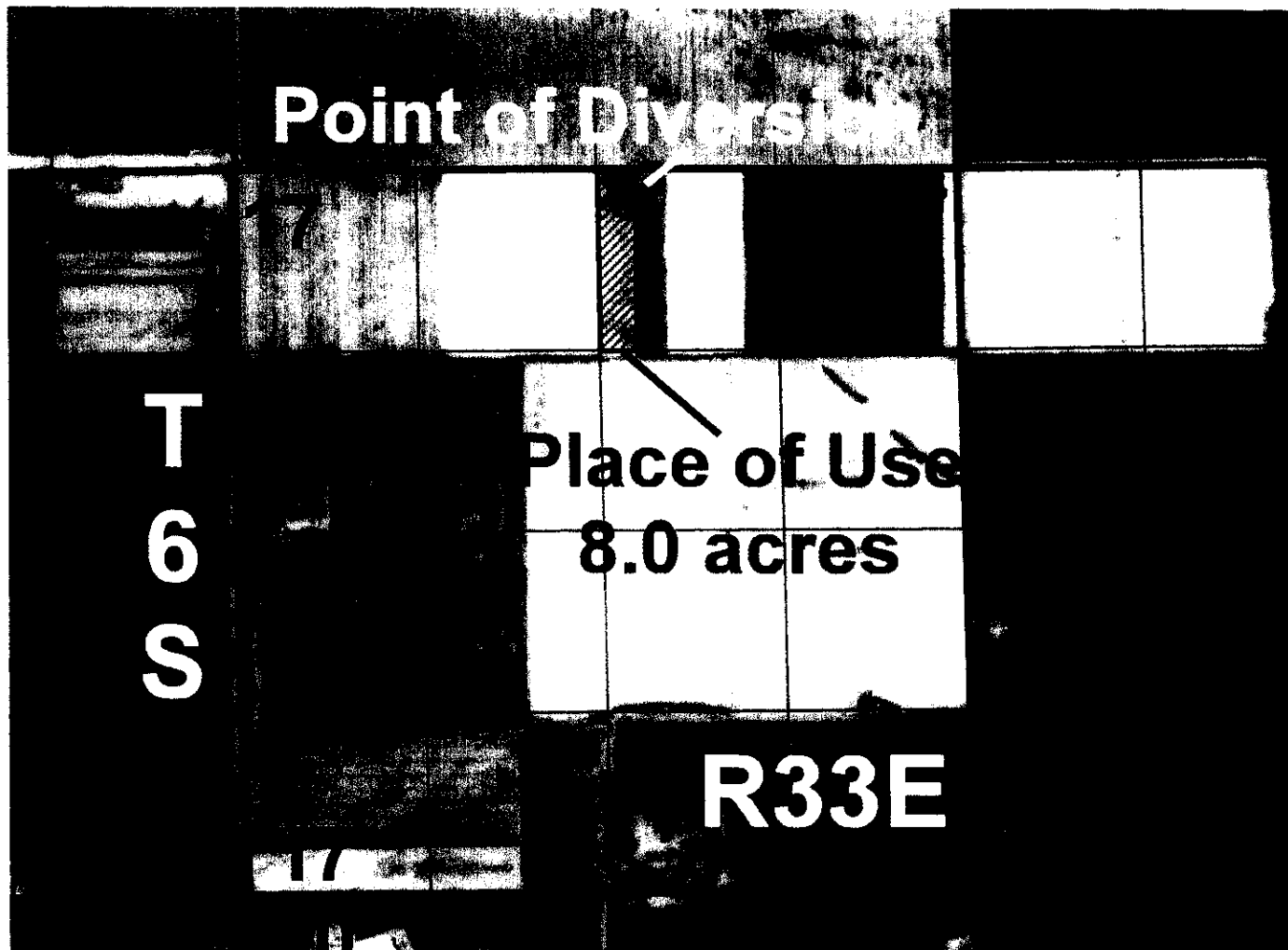


- 29-07984pod.shp
- ▨ 29-07984poumap.shp
- S06s33e.shp
- T06s33e.shp

Keith C. Wilson
 KEITH C. WILSON
 1/26/2001

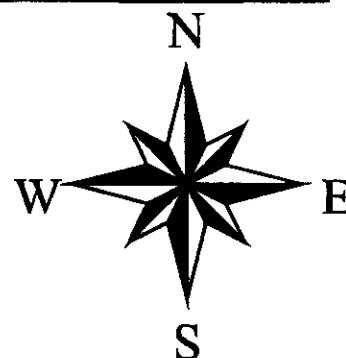


29-07984



- 29-07984poda.shp
- ▨ 28-07984poua.shp
- S06s33e.shp
- T06s33e.shp

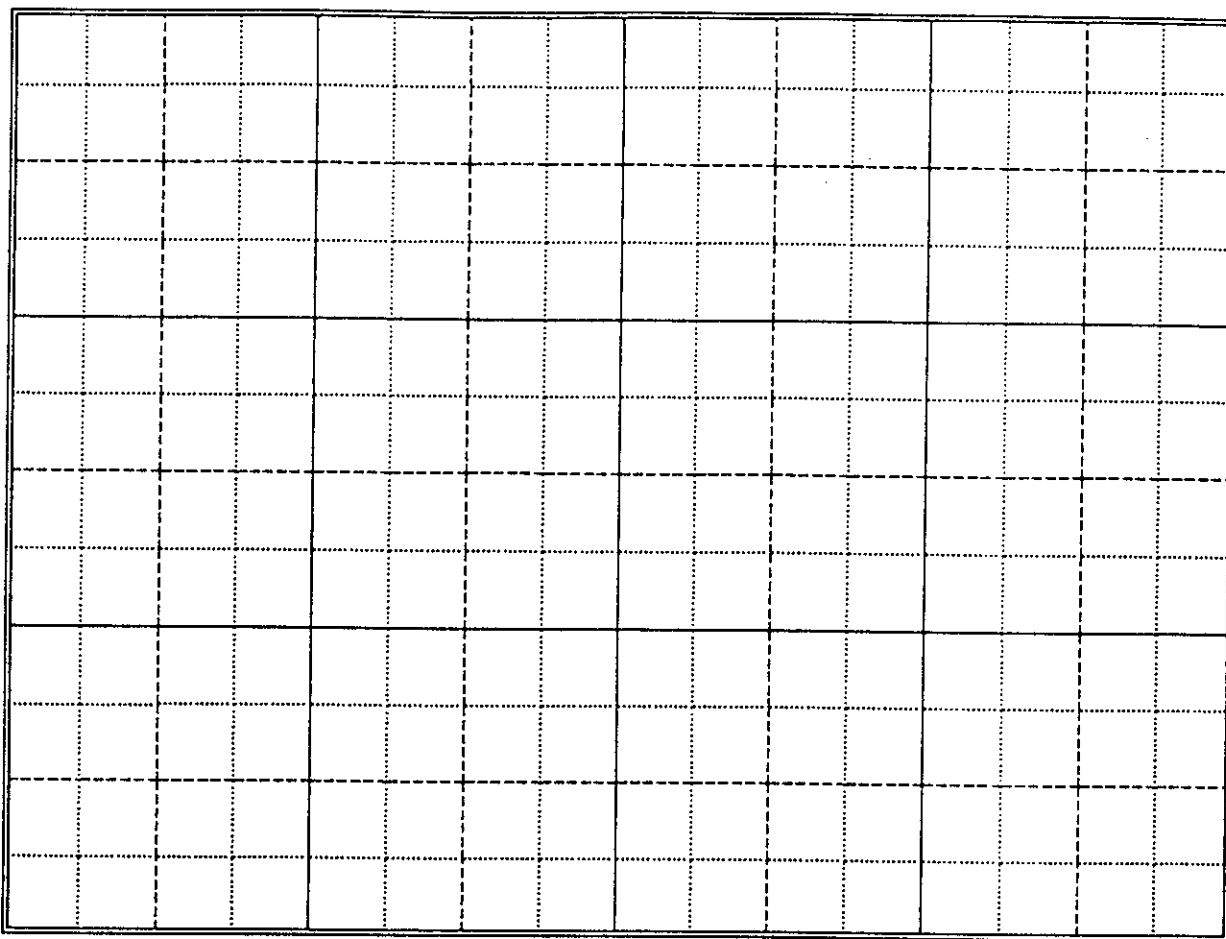
Keith C Wilson
KEITH C WILSON
1/26/2001



29-07984

[illegible]

3. **Delivery System Diagram:** Include 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
	Red Jacket	5hp	-	Red Jacket	2" —

*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
PRESSURE GAGE		ASHCROFT	# 9810		0-60	
Polysonic	Sonic Meter		DCT 7082			

2. Measurements: 32 psi — 32 psi (12) sprinklers all 5/32"
5/32" 5/32"

E. NARRATIVE/REMARKS/COMMENTS

Well pump to Single Domestic home and to 2" hand lines

No addition acres USE 8/10/1995 EXAM

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

✓ Additional Computation Sheets Attached

Measured Method:

SONIC METER = 45.46 gpa = 0.10 cfs

$$Q_{\text{Pressure gauge}} = (4.13 \text{ gal/sprinkler}) (12 \text{ sprinklers}) = 49.6 \text{ gpm} = 0.11 \text{ cfs}$$

RECOMMEND using Flow Measurement From 1995 Exam Q = 64.2 gpm = 0.14 cfs

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

SEE 8/10/1995 Exam

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Totals:				

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

SEE 8/10/1995 EXAM

I. AUTHENTICATION

Field Examiner's Name

KEITH C WILSON

Date _____

6-12-1998

Reviewer

Date _____

SEAL

Pipe
 Material = ALUMINU
 OD = 3.000 inches
 WT = 0.050 inches
 ID = 2.900 inches
 Sound Vel. = 10171 FPS
 Roughness = 0 Ft
 Liner
 Material = NONE
 Thickness = 0.000 inches
 Sound Vel. = 0 FPS
 Roughness = 0 Ft
 Fluid
 Type = WATER
 Sound Vel. = 4863 FPS
 Viscosity = 1.13
 Transducer
 Type = S
 Mounting = W
 Flow
 Scale Fact = 0.9700
 Offset = 0.00 GPM
 Damping = 30 secs
 Max Range = 650.00 GPM
 Min Range = -650.00 GPM
 Cutoff
 Low Flow = 0.00
 Low Signal = 0.00 %

Flow = 45.36 GPM
 Vel = 2.20 FPS
 Net 1902 x1Ft3
 Pos 1902 x1Ft3
 Neg 0 x1Ft3
 SigStr = 100.0%
 Cutoff = 0.0%
 Reynolds = 42716
 Factor = 0.912005
 SigStr = 100.0%
 Margin = 119%
 DeltaT = 87.81 ns
 SSpeed = 4735.97 FPS
 4-20mA = 4.73 mA

MEASUREMENT TAKEN 6/12/1998

Flow = 45.34 GPM
 Flow = 45.27 GPM
 Flow = 45.15 GPM
 Flow = 45.28 GPM
 Flow = 45.35 GPM
 Flow = 45.46 GPM
 Flow = 45.31 GPM

For Licensing purposes use
 Flow measurement of 8/10/1995
 exam.

Kent C. Wilson
 KENT C. Wilson

Flow = 45.36 GPM
 Neg 0 x16a1
 Flow = 45.29 GPM
 SigStr = 100.0%
 Margin = 99%
 Flow = 45.25 GPM
 Flow = 45.42 GPM

SigStr = 100.0%
 Margin = 99%
 Flow = 45.29 GPM

Flow = 45.32 GPM
 Flow = 45.36 GPM
 Flow = 45.24 GPM
 Flow = 45.35 GPM
 Flow = 45.27 GPM

29-07984

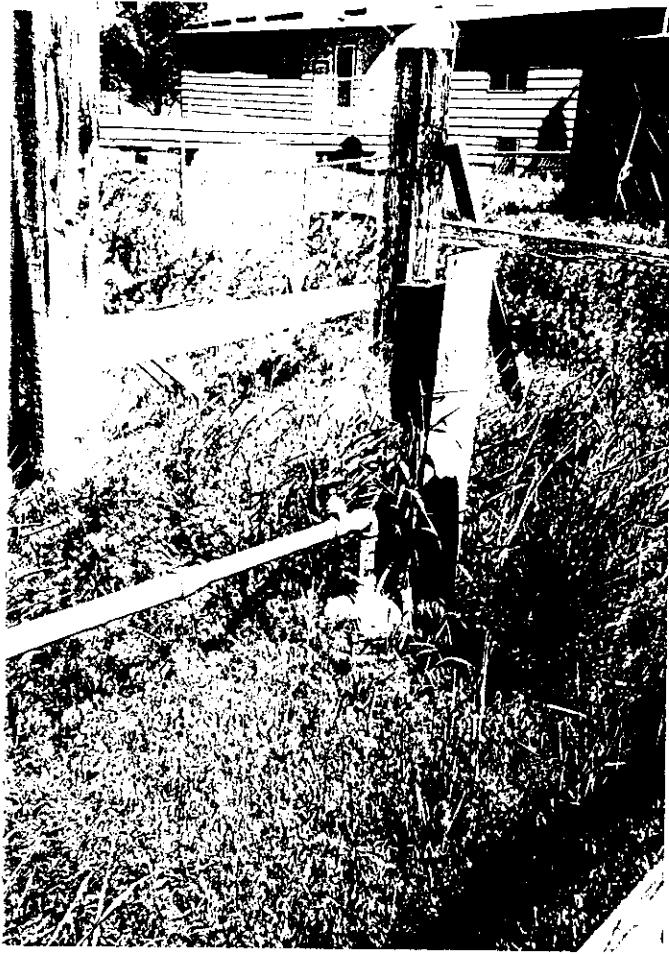
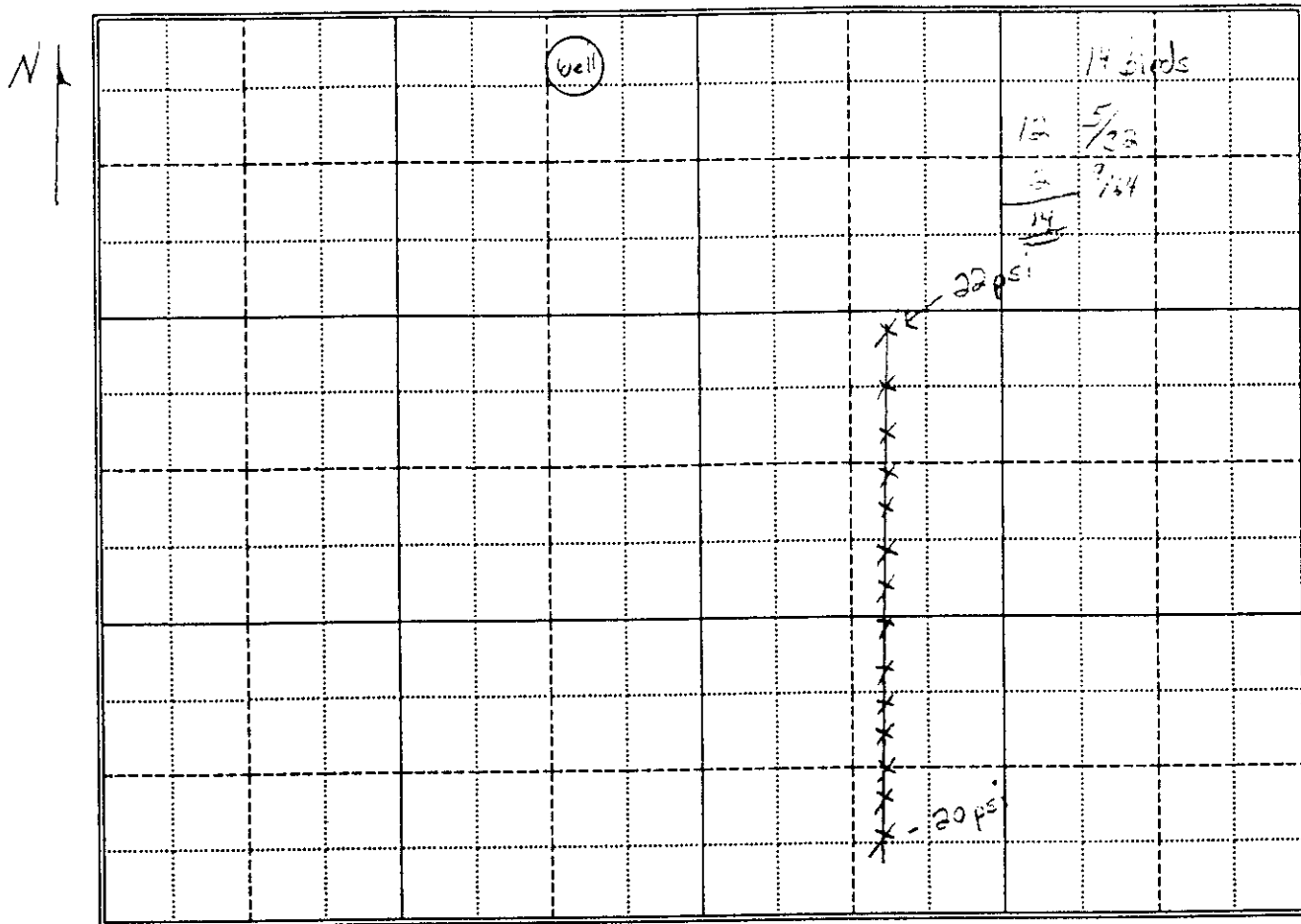


PHOTO TAKEN 6/12/1998

29-07984

[illegible]

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
Submersible	Franklin Elec	5hp	2821132201		

*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
Pitot Tube						
PSI Gauge		Ashcroft			0-60	

2. Measurements: _____

E. NARRATIVE/REMARKS/COMMENTS

1. left, to portable mainline, to handlines

14 birds were on at the time of the flow measurement See diagram

Model 30 LA Rain Bird @ 20 psi = 4.63 GPM $\times .47$ ^{.098} @ 21 psi = 4.72

@ 25 psi = 5.12 GPM

12 birds $\frac{5}{32}$ @ 21 psi = $(4.728 \times 12) = 56.74$ GPM

2 birds $\frac{9}{64}$ @ 21 psi = $(3.73 \times 2) = 7.46$ GPM

64.2 GPM ^{.076}

Model 30 LA Rain Bird @ 20 psi = 3.65 GPM $\times .38$

@ 25 psi = 4.03 GPM

@ 21 psi = 3.72

.38 difference

RECOMMEND that 29-07984 in combination with license 29-07238 shall not exceed 0.14 cfs

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

F. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

$$12 \text{ birds @ } 21 \text{ psi} = (12 \times 4.72 \text{ GPM}) = 56.74 \text{ GPM}$$

$$2 \text{ birds @ } 21 \text{ psi} = (2 \times 3.73 \text{ GPM}) = 7.46 \text{ GPM}$$

$$\underline{64.20 \text{ GPM}}$$

448.8 / 64.2 GPM = .143 CFS

8 ac @ 0.02 cfs/ac = 0.16 cfs LIMITED By Capacity

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 8 (4) = 32 \text{ A}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.03 (1.9835) (214) = 12.7$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{12.7}$$

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS IN COMBINATION WITH LICENSE 29-07238 shall not exceed 0.4 cfs

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
IRRIGATION	4/1	10/31	0.03	12.7
Totals:			0.03 cfs	12.7

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

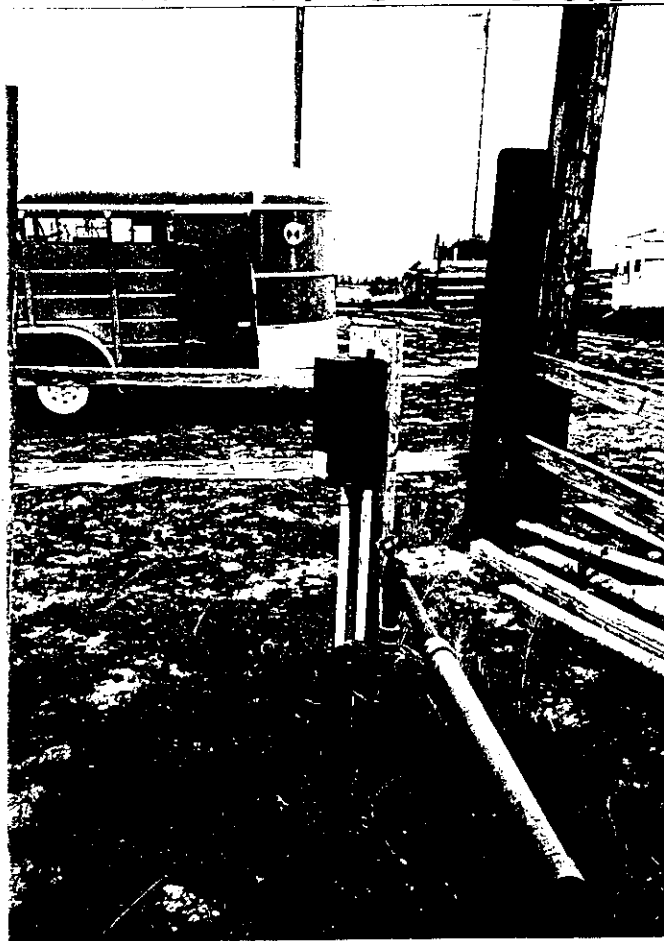
I. AUTHENTICATION

Field Examiner's Name Steve Mueller Date 8-10-95

Reviewer _____ Date _____

SEAL

Point of diversion



29-7984

Photo Taken 8/10/1995

T 65
R 33 E

17

8-9
17 116

POD

POU

NE

5-

55

6-

23

7-

58

#1001

E & L Smith Farms
(Crown Point, Ind.)

T
6
S

17

9-255.4

R 33 E

8-

56

10-

86

11-

3.2

AERIAL FROM
1995 Field Exam

29-07984

17

17

18-

39.0

12-

23.2

Fernando Gonzales EWMD

HOUR METER WORKSHEET
(Attach to WMD Field Form)

SITE TAG: _____ DATE 6/15/98
EXAMINER (examiner) B. Contor
HOUR METER READING _____

FOLLOW-UP DATE 2001

STO-METER = Sonic EXAM COMPLETE = "Y"

Measured Flow Rate and Discharge Pressure - Enter flow rate as determined by the "standard" water measurement meter in GPM, and discharge pressure measured in PSI. Attach documentation to support data such as notes, printout tapes etc.

GPM 45.3

PSI 32
district

Water Level Data

Does the well have access to measure water levels? Yes ☒ No ☐

Static Water Level _____ ft
Date _____

Pumping Water Level _____ ft (at condition # _____)
Date _____

Attach sketch of pumping plant layout or photograph of pumping plant and piping.

Comments: Data from Permit exam by K. Wilson 6/12/98.

Action Delete 29-07984 from WR d-base as permit for
extra cfs will not become licence. Be sure attached
licence 29-07238 is correct on d-base.

I certify that the above information is true and correct to the best of my knowledge and ability and the measurements taken and recorded are in accordance with the standards and specifications of the equipment used.

Signature Byron A. Contor Date 6/15/98
(person performing measurements)

FROM WATER MEASUREMENT
DISTRICT RECORDS

EWMD record 200569
6/26/2001 DAC

2 **PROFILED**

29-07984

Pipe
Material = ALUMINU
OD = 3.000 inches
WT = 0.050 inches
ID = 2.900 inches
Sound Vel. = 10171 FPS
Roughness = 0 Ft
Liner
Material = NONE
Thickness = 0.000 inches
Sound Vel. = 0 FPS
Roughness = 0 Ft
Fluid
Type = WATER
Sound Vel. = 4863 FPS
Viscosity = 1.13
Transducer
Type = S
Mounting = W
Flow
Scale Fact = 0.9700
Offset = 0.00 GPM
Damping = 30 secs
Max Range = 658.80 GPM
Min Range = -658.80 GPM
Cutoff
Low Flow = 0.00
Low Signal = 0.00 %

Flow = 45.36 GPM
Vel = 2.20 FPS
Net 1902 x1Ft3
Pos 1902 x1Ft3
Neg 0 x1Ft3
SigStr = 100.0%
Cutoff = 0.0%
Reynolds = 42716
Factor = 0.912005
SigStr = 100.0%
Margin = 119%
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SSpeed = 4735.97 FPS
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Flow = 45.34 GPM
Flow = 45.27 GPM
Flow = 45.15 GPM
Flow = 45.28 GPM
Flow = 45.35 GPM
Flow = 45.46 GPM
Flow = 45.31 GPM

Flow = 45.36 GPM
Neg 0 x16al

Flow = 45.29 GPM
SigStr = 100.0%
Margin = 99%
Flow = 45.25 GPM
Flow = 45.42 GPM

SigStr = 100.0%
Margin = 99%
Flow = 45.29 GPM

Flow = 45.32 GPM
Flow = 45.36 GPM
Flow = 45.24 GPM
Flow = 45.35 GPM
Flow = 45.27 GPM

$\bar{x} = 45.3$
GPM

FROM WATER MEASUREMENT
DISTRICT RECORDS

WATER MEASUREMENT DISTRICT
FIELD REPORT

DISTRICT EWMD RECORD NUMBER 200 569

SITE DATA:

EXAMINER (inv_name) B Contor
EXAM DATE 5/13/98 DIVERSION NAME _____
(site_visit) (div_name)
GPS FILE C051318A SITE TAG NUMBER A000 7673
(gps_filnam) (site_tagno)
GPS OFFSET (offset) 4' above well
TAG LOCATION (tag_locat) power pole w/ transform by well
POD LEGAL (pod) T 6 N S R 33 E, Sec 17, NW NE

DISTRICT MEASUREMENT CAPABILITY (std_rcmd):

SONIC (s) SONIC/DIG (sd) SONIC @ PVT (sp)
COLLINS (c) PVT
MEASUREMENT RECOMMENDATION
PCC (2) HOU
ALTERNATE (3) OTH
AMEND CLAIM (A) OPEN

SUITABLE FOR PCC even if o

TRACKING will be required (

Well has ACCESS PORT for wat

FLOWMETER installation poss.

FOLLOW-UP DATE (folup_date) 1999

METER (1)

YES NO

YES NO

YES NO

YES NO

OWNER/OPERATOR INFORMATION

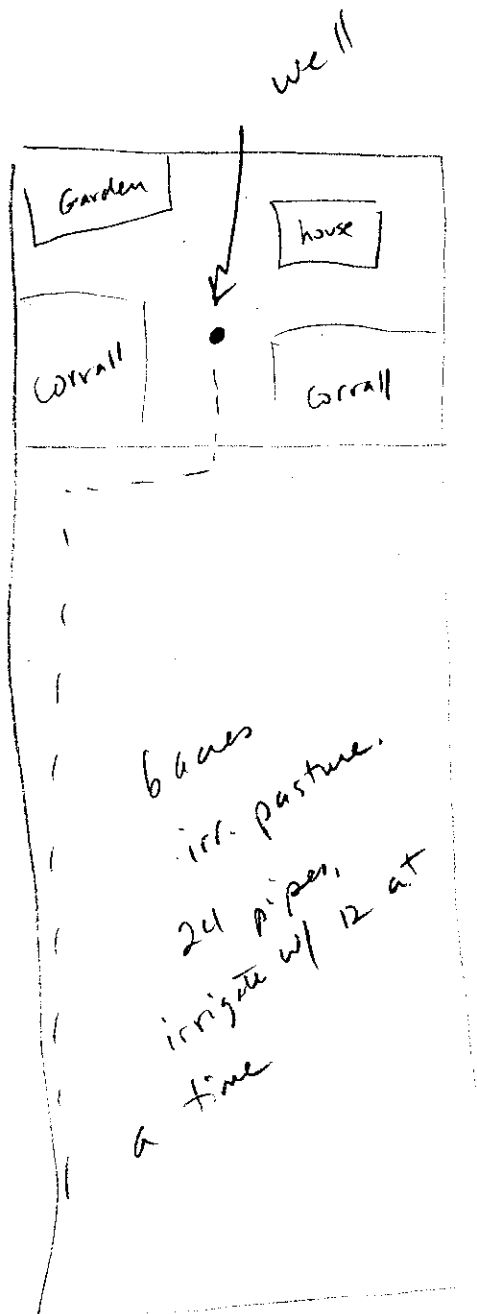
OWNER (name) Fernando Gonzales #152 PHONE 234 2329
ADDRESS 2002 Big Sky Rd Bocatello CEL PHONE _____
OPERATOR (contact) _____ PHONE _____
ADDRESS _____ CEL PHONE _____

FROM WATER MEASUREMENT
DISTRICT RECORDS

Please update Dbase

PUMPING PLANT SKETCH

VALVE	=	
CHECK VALVE	=	
AIR VAC	=	
PRESS. RELIEF	=	
INDIVE/UPDIVE	=	
HOSE BIB	=	
PRESS. GAGE	=	
WELL ACCESS	=	



 FROM WATER MEASUREMENT
 DISTRICT RECORDS

WELL/PUMP INFORMATION:

DEPTH OF WELL: _____ DEPTH OF BOWLS: _____

WATER LEVELS:

PRE-SEASON STATIC: _____ DATE MEAS: _____
(swl_pre) (swlpredate)DURING-SEASON STATIC: _____ DATE MEAS: _____
(swl_mid) (swlmiddade)POST-SEASON STATIC: _____ DATE MEAS: _____
(swl_post) (swlpstdate)DYNAMIC WATER LEVEL: _____ DATE MEAS: _____
(pmpng_wl) (pwl_date)

DOES STATIC WATER LEVEL DROP OR RISE OVER SEASON? YES NO

DOES ANOTHER WELL SPECIFICALLY INTERFERE WITH THIS WELL? YES NO

PUMP AND MOTOR INFORMATION:

WELL MOTOR

MFG: _____

SERIAL: _____

HP: _____ 5 _____

BOOSTER 1 MOTOR

MFG: _____

SERIAL: _____

HP: _____

BOOSTER 2 MOTOR

MFG: _____

SERIAL: _____

HP: _____

WELL PUMP

MFG: _____

SERIAL: _____

TYPE: _____ VERT T CENT SUBMER
(pump_type) (v) (c) (s)

BOOSTER 1 PUMP

MFG: _____

SERIAL: _____

TYPE: _____ VERT T CENT SUBMER

BOOSTER 2 PUMP

MFG: _____

SERIAL: _____

TYPE: _____ VERT T CENT SUBMER

UTILITY KWH METER INFORMATION:

UTILITY: _____
(utility)POLE #: _____
(pole_no)

MAX KW DEMAND _____

KILOWATT HRS _____
(kwh_1)

(use date of exam for "kwh1_date")

UTILITY ACCOUNT NUMBER _____
(acct_no)KWH METER SERIAL: _____
(pwrmttr_sn)METER MFG: _____
(pwrmttr_mfg)Kh DISK CONSTANT _____
(kh)MULTIPLIER _____
(disk_mult)*****
FROM WATER MEASUREMENT
DISTRICT RECORDS

SYSTEM DESCRIPTION/NARRATIVE COMMENTS:

SYSTEM TYPE handline
(system_type)

COMMENTS TO DATA-ENTER (exam_notes): 2 pumps in well, one for house, 1 for irr. Runs 12 pipes at a time, is willing to keep records. Recommend record keeping for irrigation, don't worry about meas. house hold use.

FILE-ONLY COMMENTS:

Action

- 1) Please send Mr. Gonzales a copy of this exam.
- ✓ 2) Please update address on database so Mr. Gonzales receives mailings.
- ✓ 3) Add to summertime pump card list. On sample card request tracking of # pipes running and operating hours.
- 4) Give exam back to Bryce to look up flow from permit exam done last summer.

FROM WATER MEASUREMENT
DISTRICT RECORDS

I certify that the above information is true and correct to the best of my knowledge and ability and the measurements taken and recorded are in accordance with the standards and specifications of the equipment used.

Signature Bryce A. Contor Date 5/13/98



FROM WATER MEASUREMENT
DISTRICT RECORDS

PERMIT
NUMBER

NAME_1	FERNANDO B & IRENE GONZALES	ADRES_ID	152
		POD	06S 33E 17 NWNE
		DIV_RATE	0 12
NAME_2	STAR RT. BOX 67A	UNITS	CFS
ADDRESS_1		SURF_FLG	
		CONTACT	
ADDRESS_2		COMMENTS	
CITY	POCATELLO		
ST	ID		
ZIP	83202	SITE_VISIT	
PHONE	2082342329	EXAMINER	
REGPOD98		SITE_TAGNO	
RECNO	200569		
WRNUMBER	29-07984		

5/8/98 2045 Mrs Gonzales

2002 Big Sky Rd from Syphon turn to Big Sky Rd →
go South - East side -

2002 on mail box 1 FB Gonzales -
across street from Green Quonset Cabin
little dirt road - double-wide -
line out in field - wait to get dig

FROM WATER MEASUREMENT
DISTRICT RECORDS
