

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED
AUG 2 1997

Department of Water Resources

A. GENERAL INFORMATION

1. Owner: Deeg, Timothy P. Permit No. 41-07076
Phone No. (208) 226-5588

Current Address: 2957 Deeg Road, American Falls, Idaho 83211

2. Accompanied by: Timothy P. Deeg EXAM DATE : 6-23-97

Address: Same as owner Phone No. Same as owner

Relationship to Permit Holder: OWNER

3. Source: GROUNDWATER tributary to N/A

B. OVERLAP REVIEW

- Other water rights with the same place of use: NONE
- Other water rights with the same point of diversion: 41-07081, 41-07071, AND T41-07030

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge	County	Method of Determination/Remarks
P/D WELL		N W	S W	S E	06	09S	31E	POWER	VISUAL INSPECTION AND USE OF ASCS MAPS AND USGS QUADRANGLE MAPS.

2. Place(s) of Use:

Indicate Method of Determination Visual inspection and use of a planimeter to determine the acres on a ASCS 660 scale Aerial Photo.

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
09S	30E	12		30	33		30			33									126
09S	31E	06													35.5	23	16	27	101.5
																			227.5

PLEASE NOTE: This permit is for 227.5 acres and is for the use of irrigation.

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

SEE ATTACHED SHEET.

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

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

YES 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
P/D WELL (SITE TAG # A002787)	US MOTORS	500 Hp	7846-50-Y07Y100R0 10M	IE TOP-O-THE-LINE	14 INCH
BIG BOOSTER	BALDOR	150 Hp	MODEL # YM444TDS 7663BT	CORNELL	8H-150-4 14.00 IMP
SMALL BOOSTER	BALDOR SUPER E	15 Hp	CAT. # A 152385-55	CORNELL	4RB-15-6 12.75 IMP

*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
Polyasonic portable flow meter	Tyme Flyte	149744	TF*P	N7H5506		4/29/97
Peak flow meter			DCT7 089	32862		4/29/97

2. Measurements: The measurements for this permit were performed on the four pivots. There was not a acceptable place to measure the diversion rate at the well. This permit will be limited to the diversion rate of the south pivot. This is the only pivot used on the place of use, therefore, the diversion rate should be limited to this amount. The measurements of the other pivots are also included in this exam in order to show the capacity of the well.

E. NARRATIVE/REMARKS/COMMENTS

This permit gets its water from a well located in the NW 1/4 - SW 1/4 - SE 1/4 of section 06, township 09S, range 31E. There are four different water rights that use this well as their point of diversion. The water from this well can go five different directions. The first direction is due east to the pivot east of State Route 37 (this pivot is marked partial pivot on the map). This pivot is a 101.5 acre pivot.

The next direction the water can go is through a mainline traveling due north. This mainline travels north approximately 1/8 of mile and then turns due west. From this corner the main line is used to supply water to four wheel lines. The wheel lines irrigate the lands that are within approximately 1/4 mile west of State Route 37 and approximately 1/2 mile north of Deeg road.

The third direction that the water can go is through a main line that travels in a north westerly direction to the southeast corner of SW 1/4 - NW 1/4 of section 6. At this point the main line turns due west and supplies water to two hand lines that irrigate a 18.5 acre field to the east of the north pivot. At the end of this field the mainline continues on in a northeasterly direction and supplies water to the north pivot.

The fourth direction that the water can go from the well is through a main line that travels due west for approximately 1/2 mile to the east pivot. The east pivot irrigates approximately 132 acres. From the east pivot the main line then continues to travel west to the west pivot. The west pivot irrigates approximately 144 acres. This is the end of this main line.

The fifth and final way that the water can travel is through a mainline that travels in a southwesterly direction for approximately 3/4 of a mile to the southwest corner of the SE 1/4 - SE 1/4 of Section 1 township 09S - range 30E. From this point the main line splits and goes in two directions. The first direction is due north through a mainline that travels approximately 1/8 mile and feeds hand lines that irrigate the southeast corner of the west pivot and the southwest corner of the east pivot. Stationary hand lines are used to irrigate these corners. The second direction the mainline can go from the split is in a southeasterly direction to the south pivot. This pivot irrigates 126 acres.

According to the Power County Assessor all of the land in this system is owned by Timothy Deeg's father Otto Deeg and his mother Ida Deeg except for an 11 acre tract located around the house. Timothy Deeg's property is a triangular section of property with its east border being State Route 37 and its west border being the dividing line between SE 1/4 and the SW 1/4 of section 6 township 09S - range 31E. The southern border of Timothy Deeg's property is Deeg Road. The well for this permit is located on Timothy

Deeg's property but is used on Otto Deeg's property. The acres for this permit are located on Otto Deeg's land. Timothy Deeg informed me that area marked Partial Pivot on the maps in section 6 is owned by his uncle and Timothy Deeg leases this land. However, this is a family farm and Timothy Deeg is the main manager of the farm.

The acres for this permit are referred to on the maps as the Partial Pivot and the South Pivot. The Partial pivot consists of 101.5 acres and the South Pivot consists of 126 acres for a total of 227.5 acres. However, there is actually only one pivot used to irrigate both of these pivot areas. Mr. Deeg irrigates one of the pivot sites in the spring and then dry farms these acres for the rest of the year. After the spring irrigation on the first site Mr. Deeg moves the pivot to the other site where it stays until the crop on that pivot site is harvested. Then Mr. Deeg moves the pivot back to the other site and irrigates it one more time in the fall. Therefore, the diversion rate for this permit will be limited to the output of that pivot. The output of that pivot is recorded as South Pivot on the Polysonic reading sheets and puts out a diversion rate of 2.02 cfs (see attached sheet). The diversion rate of 2.02 is based on the remeasurement of the South Pivot with the end gun operating (see attached memo to file). Mr. Deeg reached the capacity of the well and two boosters by running only four pivots. A measurement of the well capacity could not be done at the well. Therefore, measurements of all four pivots were done to reach the capacity of the well, which was 6.68 cfs (polysonic sheets included for each of the four measurements). PLEASE NOTE: Mr. Deeg asked me to remeasure the South Pivot for this permit because the end gun for the pivot was not operating. Upon remeasurement Discovered that Timothy Deeg had installed a new pivot on the area in section 6 marked Partial Pivot on the maps. I measured this pivot and noted it in a memo to the file, but the diversion rate and annual volume of the water right should be based solely on the output of the South Pivot, which was the only pivot used when proof of beneficial use was submitted.

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

F. FLOW CALCULATIONSYES Additional Computation Sheets Attached

Measured Method:

The diversion rate for this permit is limited to the capacity of the South Pivot.

Diversion rate = 2.02 cfs (see attached sheet South Pivot with end gun)

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 227.5 \text{ ac} \times 4.0 = 910 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 2.02 \times 214 \times 1.9835 = 857.42 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 857.42 \text{ afa}$$

B

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion	Annual Volume
	From	To	Q (cfs)	V (afa)
<u>IRRIGATION</u>	<u>APRIL 01</u>	<u>OCT 31</u>	<u>2.02 CFS</u>	<u>857.42 AFA</u>

Totals: 2.02 CFS 857.42 AFA

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

Daniel A. Nelson

Date

7-24-97

Reviewer

Date

SEAL

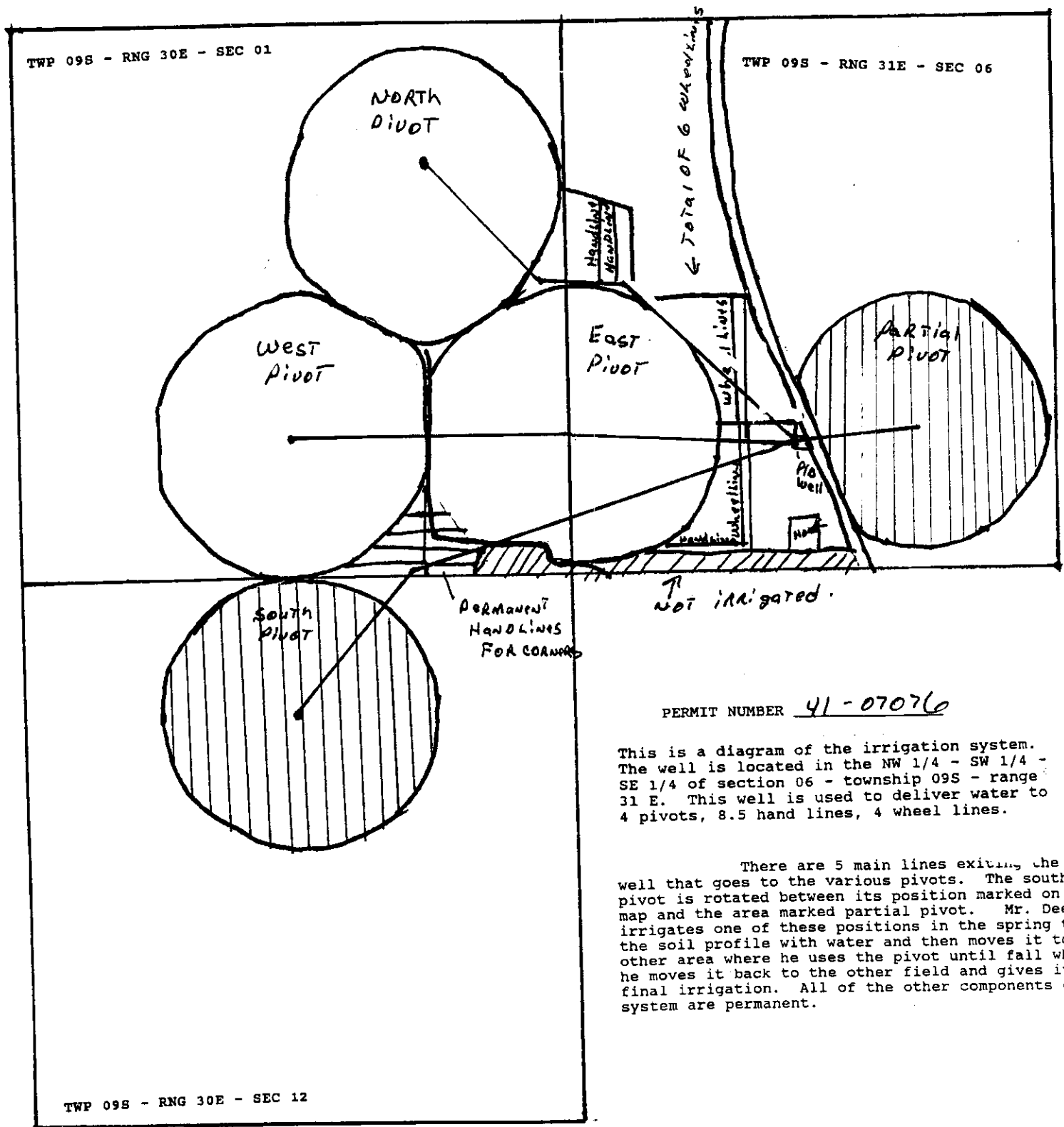
RECOMMENDATIONS:

I recommend that this permit be licensed under the following conditions:

1. That this permit be licensed for 2.02 cfs diversion rate and an annual volume of 857.42 afa.
2. That The diversion rate be based on the amount of water that is used on the South Pivot, which was the only pivot that was being used at the time proof of beneficial use was filed. The owner installed a new pivot between the first exam and the time of remeasurement. Please the attached memo to the file for more information.
3. That this permit be licensed for the entire 227.5 acres that are being irrigated. All of these acres are irrigated during a single irrigation season, therefore, all of the acres should be licensed under this permit.
4. That the Point of Diversion be limited to a maximum diversion capacity of 6.68 cfs when combined with water right number's 41-07081, 41-07071, and T41-07030. The maximum capacity was calculated by measuring the four pivots. A second measurement was taken to double check the system capacity which was less than the original measurement (see attached memo for more information). The two measurements of the pivots are as follows:

<u>ORIGINAL MEASUREMENT</u>		<u>SECOND MEASUREMENT</u>	
South Pivot	1.75 cfs	New Pivot w/o end gun	1.14 cfs
North Pivot	1.45 cfs	South pivot w/o end gun	1.74 cfs
East Pivot	1.68 cfs	West Pivot w/o end gun	2.05 cfs
West Pivot	1.80 cfs	East Pivot w/o end gun	1.64 cfs
Total System Capacity	6.68 cfs	System Capacity	6.57 cfs

DIAGRAM OF SYSTEM

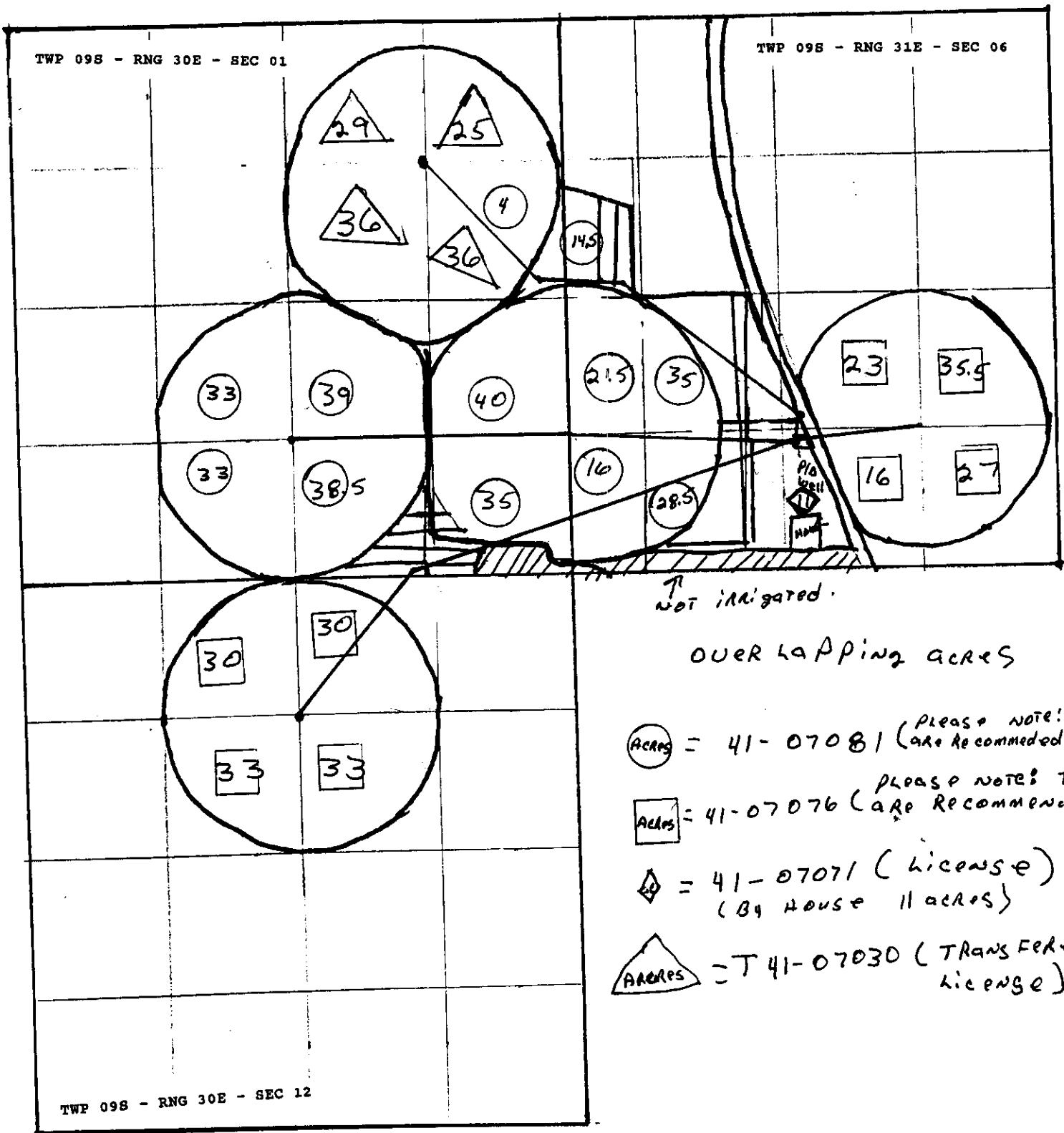


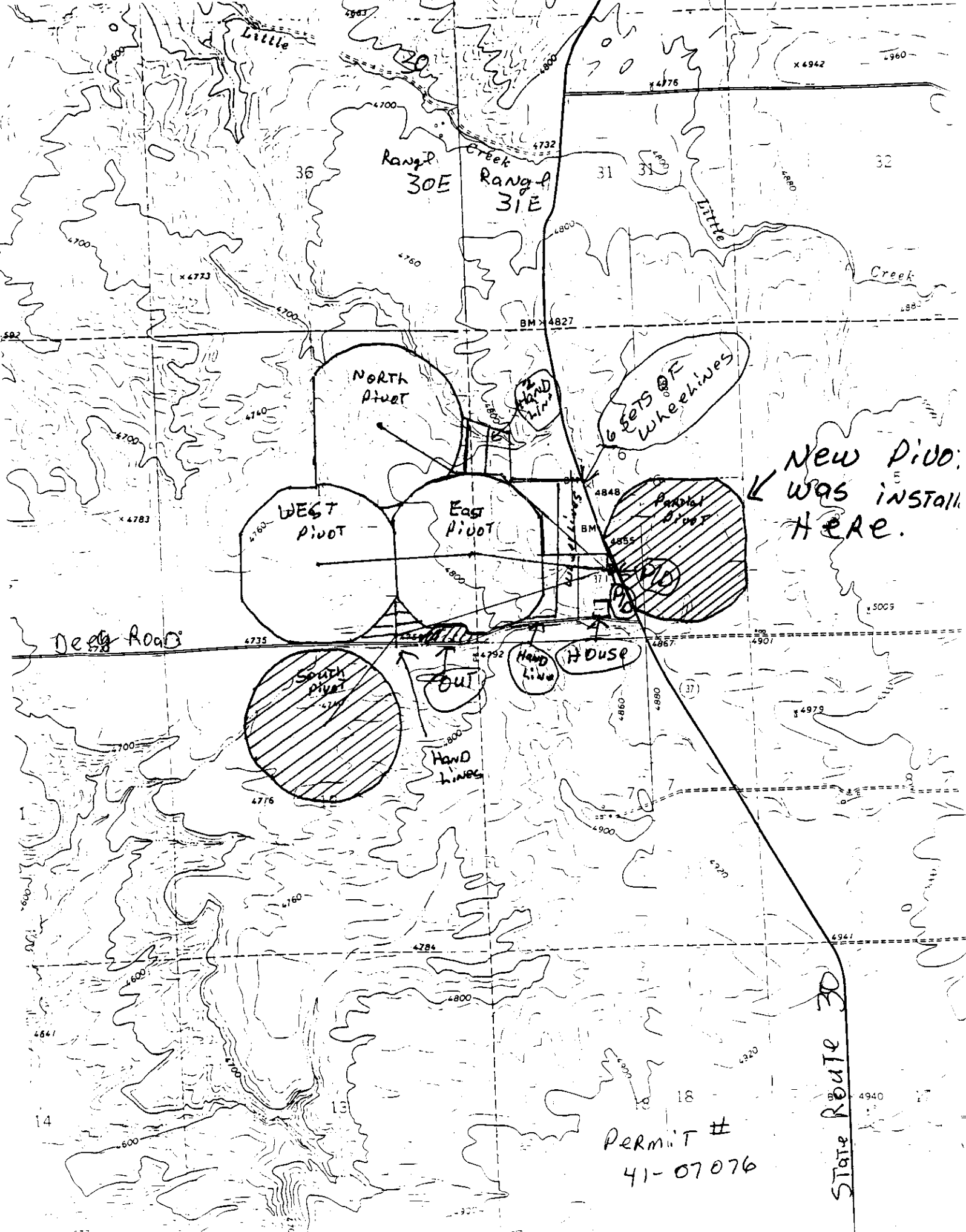
PLEASE NOTE: The portion marked out in hash marks are the acres associated with this permit.



OVERLAPPING WATER RIGHTS

PERMIT NUMBER 41-07076





NHEL
4-74.6

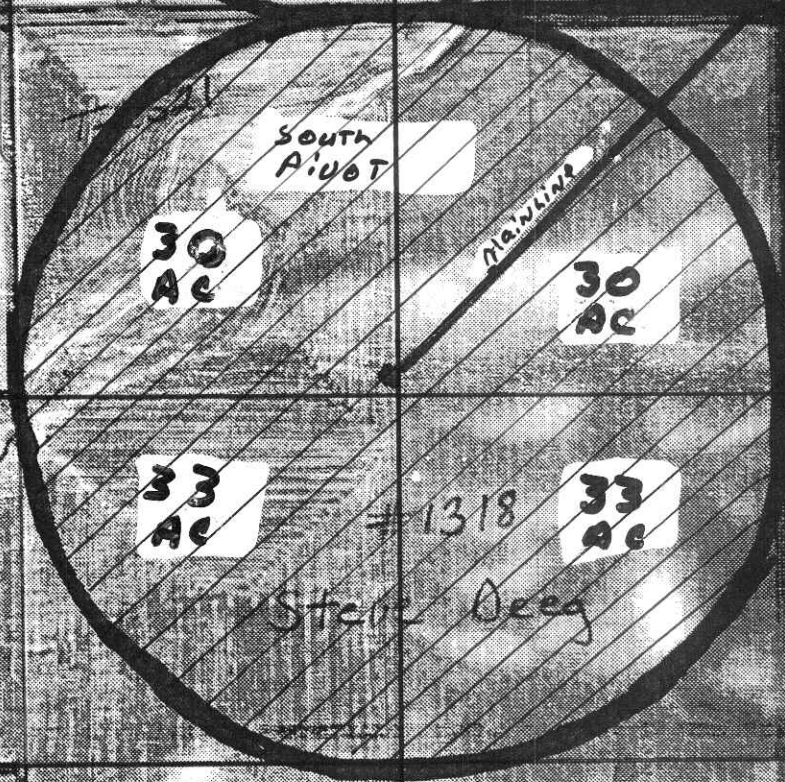
5-67.3

6-140.4 Deeg Rd

Hand Line

Hand Line

main line



T-2799

B

def
Plant

3-158.3

T-2582

1-305

ACRES DIAGRAM FOR PERMIT # 41-07076

TOTAL ACRES = 227.5 ACRES

NHEL
1-425.4

NHEL

2-166.8

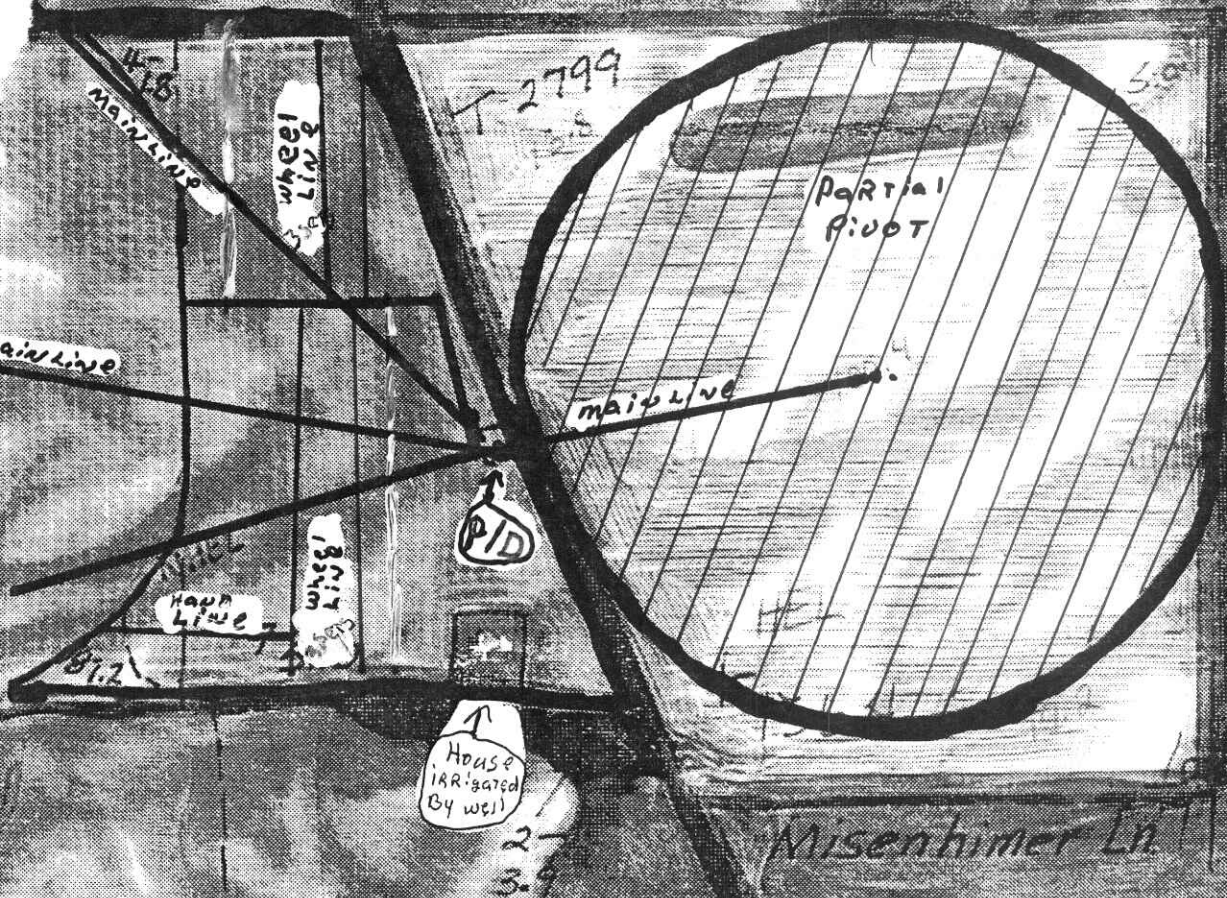
12-7

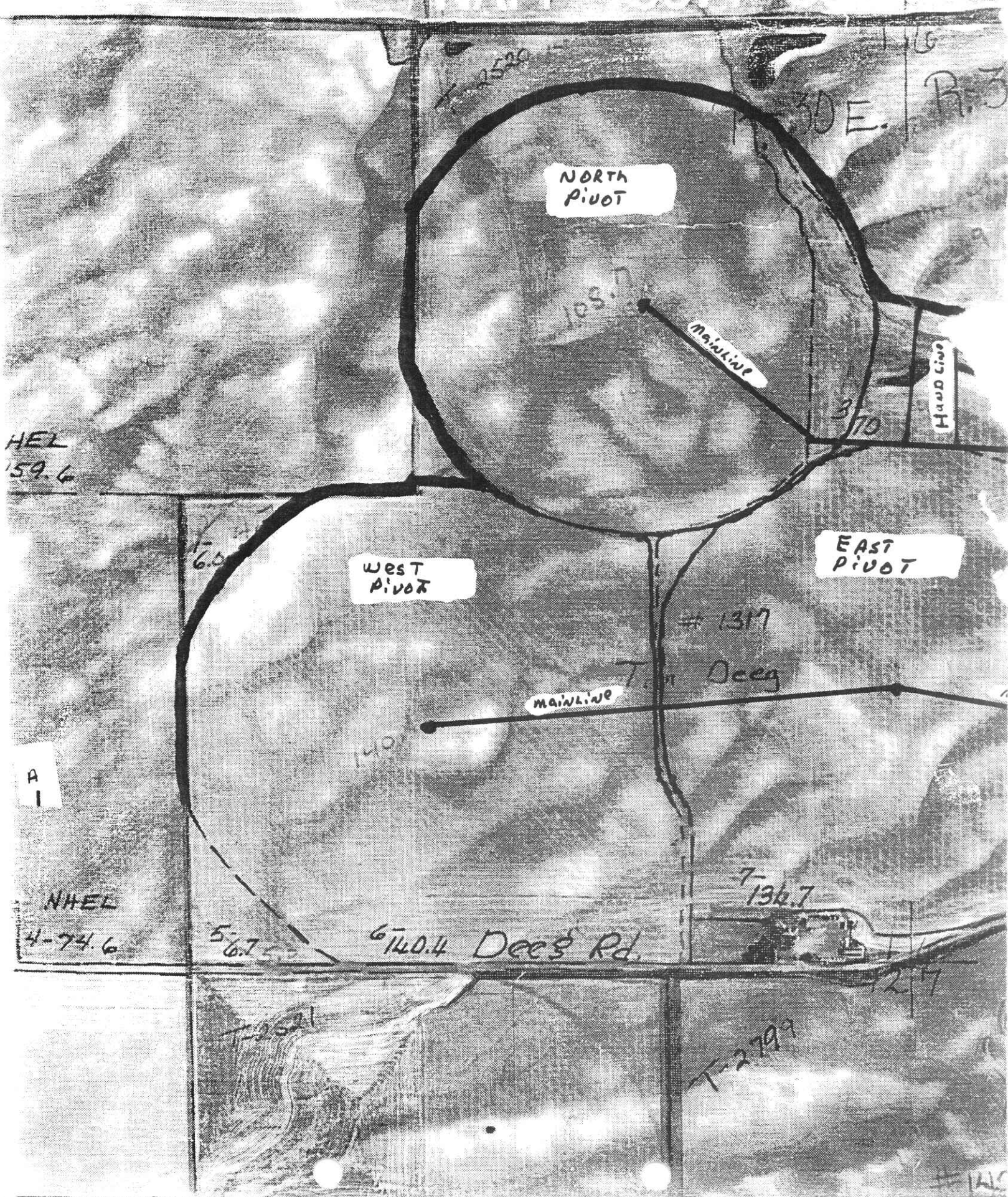
13-18

T-2582

SYSTEM DIAGRAM FOR PERMIT # 41-07076

ASCS AERIAL PHOTO USED
1987 FLIGHT







NHFL

4-74.6

5-67

6-140.4 Dees Rd.

HAND LINES

HAND LINES

main line

South Pivot

main line

T-279

B-

#1318

Steve Deeg

3-158.3

T-2582

SYSTEM DIAGRAM FOR PERMIT # 41-07076

ASCS AERIAL PHOTO USED
1987 flight

NHFL

1-425.4

NHFL

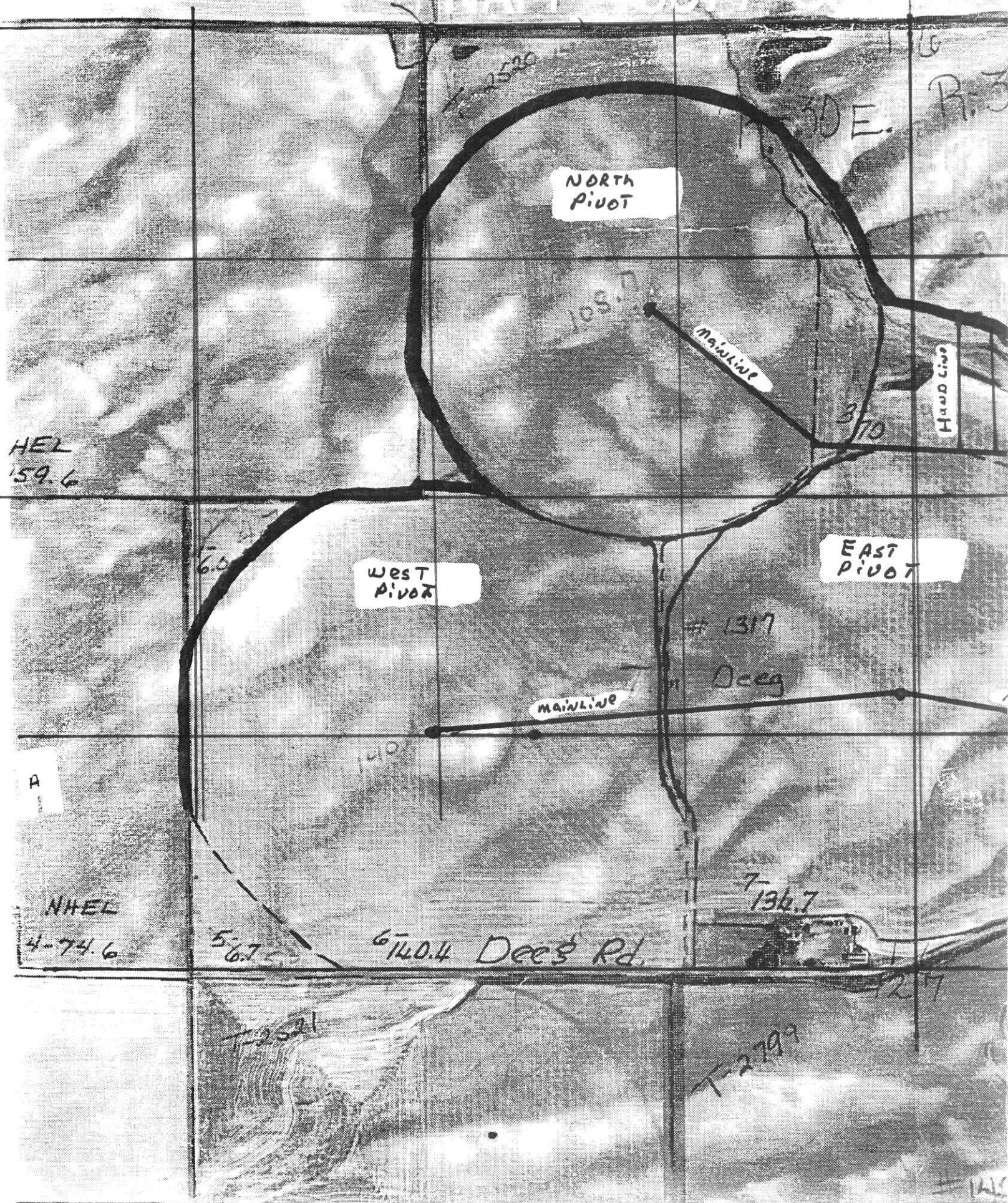
2-166.8

12-7

13-18

T-2582

NAPP 6077-3

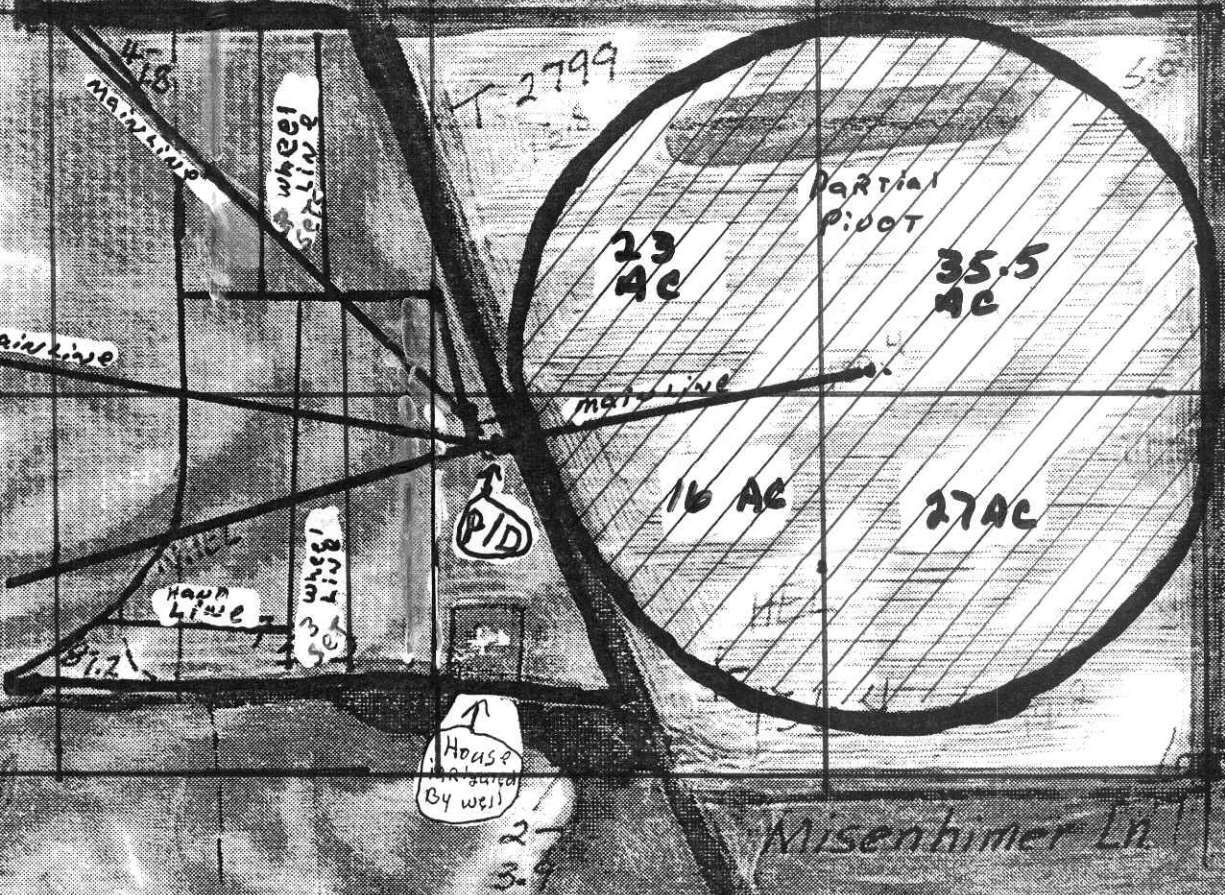


ACRES DIAGRAM FOR PERMIT # 41-07076

TOTAL ACRES = 227.5 ACRES

ACRES DIAGRAM FOR PERMIT # 41-07076

TOTAL ACRES = 227.5 ACRES



- B

POLYSONIC METER READINGS FOR NEW PIVOT:

PERMIT #: 41-07076 AND 41-07081.

NEW PIVOT WITH END GUN:

FIRST SET OF INFORMATION:

SET - UP IMPUTE DATA USED DURING
PREPARATION FOR FLOW MEASUREMENTS

SECOND SET OF INFORMATION:

THESE ARE THE READINGS TAKEN FOR
THE MEASUREMENT.

FLows IN GALLONS PER MINUTE (GPM)

FLOW READINGS AVERAGE = 704 gpm

$$704 \text{ gpm} / 448.8 = 1.57 \text{ cfs}$$

10:28+709.302E 06PM 00R
+00000 *10 G 00R
-00000 *10 G 00R

10:29+702.697E 06PM 00R
+00000 *10 G 00R
-00000 *10 G 00R

10:30+707.452E 06PM 00R
+00140 *10 G 00R
-00000 *10 G 00R

10:31+707.452E 06PM 00R
+00210 *10 G 00R
-00000 *10 G 00R

10:32+710.358E 06PM 00R
+00202 *10 G 00R
-00000 *10 G 00R

10:33+709.830E 06PM 00R
+00353 *10 G 00R
-00000 *10 G 00R

10:34+703.754E 06PM 00R
+00422 *10 G 00R
-00000 *10 G 00R

10:35+701.112E 06PM 00R
+00494 *10 G 00R
-00000 *10 G 00R

10:36+701.112E 06PM 00R
+00563 *10 G 00R
-00000 *10 G 00R

10:37+699.791E 06PM 00R
+00634 *10 G 00R
-00000 *10 G 00R

10:38+701.641E 06PM 00R
+00704 *10 G 00R
-00000 *10 G 00R

MODE SELECT
INPUT

OUTER DIAMETER
8.65000 IN

PIPE MATERIAL
? CS,SS

WALL THICKNESS
0.1940 IN

KIND OF FLUID
? WATER

SENSOR MOUNTING
? U

TYPE OF SENSOR
? SMALL

SPACING
6.495 IN U

07-17 10:2400 *R
+716.434E 06PM

MODE SELECT
TO CHECK

0309.9 MMSEC
100.39 % T0

07-17 10:2400 *R
+002.70 % A12

07-17 10:2500 *R
+709.302E 06PM

*New
Pivot
with
End
Gun*

POLYSONIC METER READINGS FOR SECOND MEASUREMENT:

PERMIT #: 41-07076 AND 41-07081.

EAST PIVOT WITHOUT END GUN:

FIRST SET OF INFORMATION:

SET - UP IMPUTE DATA USED DURING
PREPARATION FOR FLOW MEASUREMENTS

SECOND SET OF INFORMATION:

THESE ARE THE READINGS TAKEN FOR
THE MEASUREMENT.

FLows IN GALLONS PER MINUTE (GPM)

FLOW READINGS AVERAGE = 735 gpm

735 gpm / 448.8 = 1.64 cfs

13:40+739.417E 06PM	00R
+00000 *10 G	00R
-00000 *10 G	00R
13:41+738.625E 06PM	00R
+00072 *10 G	00R
-00000 *10 G	00R
13:42+738.096E 06PM	00R
+00145 *10 G	00R
-00000 *10 G	00R
13:43+734.662E 06PM	00R
+00220 *10 G	00R
-00000 *10 G	00R
13:44+733.077E 06PM	00R
+00294 *10 G	00R
-00000 *10 G	00R
13:45+735.190E 06PM	00R
+00367 *10 G	00R
-00000 *10 G	00R
13:46+738.625E 06PM	00R
+00440 *10 G	00R
-00000 *10 G	00R
13:47+738.625E 06PM	00R
+00514 *10 G	00R
-00000 *10 G	00R
13:48+734.662E 06PM	00R
+00588 *10 G	00R
-00000 *10 G	00R
13:49+734.134E 06PM	00R
+00662 *10 G	00R
-00000 *10 G	00R
13:50+735.983E 06PM	00R
+00735 *10 G	00R
-00000 *10 G	00R

MODE SELECT
INPUT

OUTER DIAMETER
8.0201 IN

PIPE MATERIAL
? CS.35

WALL THICKNESS
0.1180 IN

KIND OF FLUID
? WATER

SENSOR MOUNTING
? U

TYPE OF SENSOR
? SMALL

SPACING
5.831 IN U

MODE SELECT
TO CHECK

0292.3 MMSEC
100.51 % T0

07-17 13:0200 *H
+003.00 % A12

07-17 13:3800 *R
+003.00 % A12

0292.3 MMSEC
100.50 % T0

*East
Pivot*

POLYSONIC METER READINGS FOR SECOND MEASUREMENT:

PERMIT #: 41-07076 AND 41-07081.

WEST PIVOT WITHOUT END GUN:

FIRST SET OF INFORMATION:

SET - UP IMPUTE DATA USED DURING
PREPARATION FOR FLOW MEASUREMENTS

SECOND SET OF INFORMATION:

THESE ARE THE READINGS TAKEN FOR
THE MEASUREMENT.

FLows IN GALLONS PER MINUTE (GPM)

FLOW READINGS AVERAGE = 919 gpm

$$919 \text{ gpm} / 448.8 = 2.05 \text{ cfs}$$

12:56+920.639E 06PM 00R
+00000 *10 G 00R
-00000 *10 G 00R

12:57+922.488E 06PM 00R
+00000 *10 G 00R
-00000 *10 G 00R

12:58+924.338E 06PM 00R
+00183 *10 G 00R
-00000 *10 G 00R

12:59+924.338E 06PM 00R
+00277 *10 G 00R
-00000 *10 G 00R

13:00+920.111E 06PM 00R
+00369 *10 G 00R
-00000 *10 G 00R

13:01+919.583E 06PM 00R
+00461 *10 G 00R
-00000 *10 G 00R

13:02+920.903E 06PM 00R
+00553 *10 G 00R
-00000 *10 G 00R

13:03+921.432E 06PM 00R
+00645 *10 G 00R
-00000 *10 G 00R

13:04+923.545E 06PM 00R
+00737 *10 G 00R
-00000 *10 G 00R

13:05+924.866E 06PM 00R
+00828 *10 G 00R
-00000 *10 G 00R

13:06+925.394E 06PM 00R
+00919 *10 G 00R
-00000 *10 G 00R

MODE SELECT
INPUT

OUTER DIAMETER
8.0201 IN

PIPE MATERIAL
? CS,SS

WALL THICKNESS
0.1170 IN

KIND OF FLUID
? WATER

SENSOR MOUNTING
? U

TYPE OF SENSOR
? SMALL

SPACING
5.830 IN U

MODE SELECT
TO CHECK

0291.6 MMSEC
100.23 % T0

07-17 12:5500 *R
+003.00 % A12

POLYSONIC METER READINGS FOR SECOND MEASUREMENT:

PERMIT #: 41-07076 AND 41-07081.

SOUTH PIVOT WITHOUT END GUN:

FIRST SET OF INFORMATION:

SET - UP IMPUTE DATA USED DURING
PREPARATION FOR FLOW MEASUREMENTS

SECOND SET OF INFORMATION:

THESE ARE THE READINGS TAKEN FOR
THE MEASUREMENT.

FLows IN GALLONS PER MINUTE (GPM)

FLOW READINGS AVERAGE = 784 gpm

784 gpm / 448.8 = 1.74 cfs

MODE SELECT
INPUT

OUTER DIAMETER
8.0200 IN

PIPE MATERIAL
? CS/SE

WALL THICKNESS
0.1100 IN

KIND OF FLUID
? WATER

SENSOR MOUNT
? U

TYPE OF SENS
? SMALL

SPACING
5.824 IN

MODE SELECT
INPUT

MODE SELECT
TO CH

0290.6 MMSEC
099.78 % TO

07-17 11:2220
+002.00 % ALL

07-17 12:0000 *R
+802.819E 06PM

12:05+787.761E 06PM 00R
+00000 *10 G 00R
-00000 *10 G 00R

12:06+789.610E 06PM 00R
+00076 *10 G 00R
-00000 *10 G 00R

12:07+792.780E 06PM 00R
+00155 *10 G 00R
-00000 *10 G 00R

12:08+793.798E 06PM 00R
+00234 *10 G 00R
-00000 *10 G 00R

12:09+788.364E 06PM 00R
+00312 *10 G 00R
-00000 *10 G 00R

12:10+789.346E 06PM 00R
+00390 *10 G 00R
-00000 *10 G 00R

12:11+789.610E 06PM 00R
+00469 *10 G 00R
-00000 *10 G 00R

12:12+792.780E 06PM 00R
+00548 *10 G 00R
-00000 *10 G 00R

12:13+785.383E 06PM 00R
+00628 *10 G 00R
-00000 *10 G 00R

12:14+788.364E 06PM 00R
+00706 *10 G 00R
-00000 *10 G 00R

12:15+786.440E 06PM 00R
+00784 *10 G 00R
-00000 *10 G 00R

POLYSONIC METER READINGS FOR SECOND MEASUREMENT:

PERMIT #: 41-07076 AND 41-07081.

NEW PIVOT WITHOUT END GUN:

FIRST SET OF INFORMATION:

SET - UP IMPUTE DATA USED DURING
PREPARATION FOR FLOW MEASUREMENTS

SECOND SET OF INFORMATION:

THESE ARE THE READINGS TAKEN FOR
THE MEASUREMENT.

FLows IN GALLONS PER MINUTE (GPM)

FLOW READINGS AVERAGE = 510 gpm

510 gpm / 448.8 = 1.14 cfs

MODE SELECT
MODE SELECT
INPUT

OUTER DIAMETER
8.6500 IN

PIPE MATERIAL
? CS,SS

WALL THICKNESS
0.1940 IN

KIND OF FLUID
? WATER

SENSOR MOUNTING
? U

TYPE OF SENSOR
? SMALL

SPACING
6.495 IN U

14:15+516.192E 06PM 00R
+00000 *10 G 00R
-00000 *10 G 00R

14:16+512.493E 06PM 00R
+00051 *10 G 00R
-00000 *10 G 00R

14:17+508.002E 06PM 00R
+00100 *10 G 00R
-00000 *10 G 00R

14:18+504.832E 06PM 00R
+00152 *10 G 00R
-00000 *10 G 00R

14:19+510.116E 06PM 00R
+00202 *10 G 00R
-00000 *10 G 00R

14:20+510.116E 06PM 00R
+00254 *10 G 00R
-00000 *10 G 00R

14:21+510.116E 06PM 00R
+00305 *10 G 00R
-00000 *10 G 00R

14:22+514.607E 06PM 00R
+00356 *10 G 00R
-00000 *10 G 00R

14:23+514.078E 06PM 00R
+00407 *10 G 00R
-00000 *10 G 00R

14:24+509.359E 06PM 00R
+00457 *10 G 00R
-00000 *10 G 00R

14:25+511.987E 06PM 00R
+00510 *10 G 00R

POLYSONIC METER READINGS:

PERMIT #: 41-07076.

SOUTH PIVOT WITH END GUN

FIRST SET OF INFORMATION:

SET - UP IMPUTE DATA USED DURING
PREPARATION FOR FLOW MEASUREMENTS

SECOND SET OF INFORMATION:

THESE ARE THE READINGS TAKEN FOR
THE MEASUREMENT.

FLows IN GALLONS PER MINUTE (GPM)

FLOW READINGS AVERAGE = 908 gpm

$$908 \text{ gpm} / 448.8 = 2.02 \text{ cfs}$$

PLEASE NOTE: THIS MEASUREMENT
WAS TAKEN AT A DIFFERENT TIME
THEN THE MEASUREMENTS
FOR THE CAPACITY WERE TAKEN.
I DISCOVERED THAT THE END GUN WAS
NOT IN USE WHEN THE CAPACITY WAS
MEASURED. THEREFORE THE DIVERSION
RATED WILL BE LIMITED TO THIS AMOUNT.

MODE SELECT
INPUT

OUTER DIAMETER
8.0200 IN

PIPE MATERIAL
? CS,SS

WALL THICKNESS
0.1130 IN

KIND OF FLUID
? WATER

SENSOR MOUNTING
? U

TYPE OF SENSOR
? SMALL

SPACING
5.824 IN U

MODE SELECT
INPUT

MODE SELECT
TO CHECK

0290.6 MMSEC
099.78 % T0

07-17 11:2200 *R
+003.00 % AI2

11:25+908.223E 06PM 00R
+00000 *10 G 00R
-00000 *10 G 00R

11:26+909.808E 06PM 00R
+00000 *10 G 00R
-00000 *10 G 00R

11:27+907.431E 06PM 00R
+00181 *10 G 00R
-00000 *10 G 00R

11:28+907.431E 06PM 00R
+00272 *10 G 00R
-00000 *10 G 00R

11:29+908.223E 06PM 00R
+00363 *10 G 00R
-00000 *10 G 00R

11:30+909.808E 06PM 00R
+00454 *10 G 00R
-00000 *10 G 00R

11:31+910.337E 06PM 00R
+00545 *10 G 00R
-00000 *10 G 00R

11:32+910.337E 06PM 00R
+00636 *10 G 00R
-00000 *10 G 00R

11:33+907.695E 06PM 00R
+00727 *10 G 00R
-00000 *10 G 00R

11:34+907.695E 06PM 00R
+00817 *10 G 00R
-00000 *10 G 00R

11:35+907.431E 06PM 00R
+00908 *10 G 00R
-00000 *10 G 00R

1ST
SET
OF
INFORMATION

2nd
SET
OF
INFORMATION

SOUTH
PIVOT
WITH
END
GUN

POLYSONIC READINGS

PERMIT #: 41-07081 AND 41-07076

WEST PIVOT

FIRST SET OF INFORMATION:

SET - UP IMPUTE DATA USED DURING
PREPARATION FOR FLOW MEASUREMENTS

SECOND SET OF INFORMATION:

THESE ARE THE READINGS TAKEN FOR
THE WELL.

FLOWS IN GALLONS PER MINUTE (GPM)

AVERAGE GALLONS PER MINUTE

809 GALLONS PER MINUTE

809 / 448.8 = 1.80 CFS

*Second
Set of Information* →

11:23+816.027E 06PM 00R
+00000 *10 G 00R
-00000 *10 G 00R
11:24+808.366E 06PM 00R
+00081 *10 G 00R
-00000 *10 G 00R
11:25+809.951E 06PM 00R
+00161 *10 G 00R
-00000 *10 G 00R
11:26+795.158E 06PM 00R
+00240 *10 G 00R
-00000 *10 G 00R
11:27+806.781E 06PM 00R
+00322 *10 G 00R
-00000 *10 G 00R
11:28+810.480E 06PM 00R
+00403 *10 G 00R
-00000 *10 G 00R
11:29+830.557E 06PM 00R
+00484 *10 G 00R
-00000 *10 G 00R
11:30+805.989E 06PM 00R
+00568 *10 G 00R
-00000 *10 G 00R
11:31+807.838E 06PM 00R
+00649 *10 G 00R
-00000 *10 G 00R
11:32+813.121E 06PM 00R
+00730 *10 G 00R
-00000 *10 G 00R
11:33+806.517E 06PM 00R
+00809 *10 G 00R
-00000 *10 G 00R

Pivot #1
MODE SELECT INPUT

OUTER DIAMETER
8.0200 IN

PIPE MATERIAL
AL.DI

WALL THICKNESS
0.0150 IN

INNER LINING
NO LING.

KIND OF FLUID
WATER

SENSOR MOUNTING
U

TYPE OF SENSOR
SMALL

SPACING
5.657 IN U

ZERO MODE
AUT ZERO

06-23 11:1800 *R
+801.233E 06PM

06-23 11:1800 *R
+003.00 % AI2

MODE SELECT
TO CHECK

0293.1 MMSEC
098.17 % TO

POLYSONIC READINGS

PERMIT #: 41-07081 AND 41-07076

EAST PIVOT

FIRST SET OF INFORMATION:

SET - UP IMPUTE DATA USED DURING
PREPARATION FOR FLOW MEASUREMENTS

SECOND SET OF INFORMATION:

THESE ARE THE READINGS TAKEN FOR
THE WELL.

FLOWS IN GALLONS PER MINUTE (GPM)

AVERAGE GALLONS PER MINUTE

753 GALLONS PER MINUTE

753 / 448.8 = 1.68 CFS

*SECOND SET OF
INFORMATION →*

17:10+760.551E 00PM 00F
+00000 *10 G 00F
-00000 *10 G 00F
13:11+751.833E 00PM 00R
+00075 *10 G 00R
-00000 *10 G 00R
13:12+757.645E 00PM 00R
+00150 *10 G 00R
-00000 *10 G 00R
13:13+757.645E 00PM 00R
+00225 *10 G 00R
-00000 *10 G 00R
13:14+762.400E 00PM 00R
+00302 *10 G 00R
-00000 *10 G 00R
13:15+751.305E 00PM 00R
+00377 *10 G 00R
-00000 *10 G 00R
13:16+755.268E 00PM 00R
+00452 *10 G 00R
-00000 *10 G 00R
13:17+758.173E 00PM 00R
+00526 *10 G 00R
-00000 *10 G 00R
13:18+758.512E 00PM 00R
+00603 *10 G 00R
-00000 *10 G 00R
13:19+751.841E 00PM 00R
+00676 *10 G 00R
-00000 *10 G 00R
13:20+756.324E 00PM 00R
+00753 *10 G 00R
-00000 *10 G 00R

MODE SELECT INPUT

*Pivot
PE*

OUTER DIAMETER
8.0201 IN

PIPE MATERIAL
? AL.DI

WALL THICKNESS
0.1460 IN

INNER LINING
? NO LING.

KIND OF FLUID
? WATER

SENSOR MOUNTING
? U

TYPE OF SENSOR
? SMALL

SPACING
5.783 IN U

ZERO MODE
CLEAR

ZERO MODE
AUT ZERO

06-23 13:0800 *R
+754.211E 00GPM

06-23 13:0800 *R
+003.00 % A12

MODE SELECT
T0 CHECK

0291.2 MMSEC
100.36 % T0

PEAK FLOW METER READINGS

PERMIT #: 41-07081 AND 41-07076

NORTH PIVOT

FIRST SET OF INFORMATION:

SET - UP IMPUTE DATA USED DURING
PREPARATION FOR FLOW MEASUREMENTS

SECOND SET OF INFORMATION:

THESE ARE THE READINGS TAKEN FOR
THE WELL.

FLOWS IN GALLONS PER MINUTE (GPM)

667.17
+ 650.10
+ 632.76
+ 639.25
+ 655.05
+ 656.32
+ 663.80
4564.45

4564.45 / 7 = 652.06 GPM

652.06 / 448.8 = 1.45 CFS

266 PN
S1
Flow = 548.19 GPM
Pipe O.D.
8.020 inches
Pipe Wall Thickness
0.015 inches
Pipe Material
*ALUMINUM
Fluid Type
*WATER
Transducer Type
*Standard Hi Temp
Flow = 649.97 GPM
Flow = 664.67 GPM

Date and Time
6/23/97 13:06:51

Flow = 664.99 GPM
SigStr = 100.0%
Margin = 112%
Pipe O.D.
8.020 inches
Pipe Wall Thickness
0.015 inches
Pipe Material
*ALUMINUM
Fluid Type
*WATER
Transducer Type
*Standard Hi Temp
Flow = 654.07 GPM
9=99
99=99

5.89 inches
SigStr = 100.0%
Margin = 107%
Flow = 663.02 GPM
Print Interval
60 sec
Flow = 667.17 GPM
Flow = 650.10 GPM
Flow = 632.76 GPM
Flow = 639.25 GPM
Flow = 655.05 GPM
Net 0 x0.16al

SigStr = 100.0%
Margin = 110%

Flow = 656.32 GPM
Flow = 663.80 GPM
Flow = 671.50 GPM

POLYSONIC READINGS

PERMIT #: 41-07081 AND 41-07076

SOUTH PIVOT

FIRST SET OF INFORMATION:

SET - UP IMPUTE DATA USED DURING
PREPARATION FOR FLOW MEASUREMENTS

SECOND SET OF INFORMATION:

THESE ARE THE READINGS TAKEN FOR
THE WELL.

FLOWS IN GALLONS PER MINUTE (GPM)

AVERAGE GALLONS PER MINUTE

786 GALLONS PER MINUTE

786 / 448.8 = 1.75 CFS

12:10+783.798E 00GPM 00R
+00000 *10 G 00R
-00000 *10 G 00R

12:11+789.874E 00GPM 00R
+00077 *10 G 00R
-00000 *10 G 00R

12:12+791.459E 00GPM 00R
+00157 *10 G 00R
-00000 *10 G 00R

12:13+785.911E 00GPM 00R
+00236 *10 G 00R
-00000 *10 G 00R

12:14+785.911E 00GPM 00R
+00313 *10 G 00R
-00000 *10 G 00R

12:15+783.270E 00GPM 00R
+00391 *10 G 00R
-00000 *10 G 00R

12:16+789.874E 00GPM 00R
+00470 *10 G 00R
-00000 *10 G 00R

12:17+789.874E 00GPM 00R
+00551 *10 G 00R
-00000 *10 G 00R

12:18+789.346E 00GPM 00R
+00628 *10 G 00R
-00000 *10 G 00R

12:19+786.968E 00GPM 00R
+00708 *10 G 00R
-00000 *10 G 00R

12:20+783.798E 00GPM 00R
+00786 *10 G 00R
-00000 *10 G 00R

MODE SELECT
INPUT

OUTER DIAMETER
8.0201 IN

PIPE MATERIAL
AL DI

PIPE MATERIAL
AL DI

WALL THICKNESS
0.0150 IN

INNER LINING
NO LING.

KIND OF FLUID
WATER

SENSOR MOUNTING
U

TYPE OF SENSOR
SMALL

SPACING
5.657 IN U

ZERO MODE
CLEAR

06-23 12:0900 *R
+003.00 % A12

MODE SELECT
TO CHECK

0292.8 MMSEC
099.07 % TO

Second set
of information

1st
set
of
information

MEMORANDUM

TO: GENERAL FILE

FROM: DANIEL A. NELSON FIELD EXAMINER

DATE: 7-23-97

SUBJECT: NEW PIVOT INSTALLATION ON PERMIT 41-07076 LAND

At the time of my initial field exam (6-23-97) for permit number 41-07076 for Timothy Deeg, Mr. Deeg was using one pivot (the South Pivot) for two fields. When I informed Mr. Deeg that he would be limited to the diversion rate of that single pivot he stated that he was under the impression that he could install two pivots in the future and operate them both for this permit. During my fowled exam at this time I measured the South Pivot without the end gun operating. I agreed to return to Mr. Deeg's and remeasure the South Pivot while the end gun was in use. I also agreed to measure the entire system again to ensure that I had attained maximum capacity of the well on 7-17-97.

Upon returning to Mr. Deeg's on 7-17-97 I discovered that Mr. Deeg had installed a new pivot on the area marked Partial Pivot. I measured this pivot with the end gun operating. The measurement for this pivot was 1.57 cfs (see attached sheet).

At the time Beneficial Use was filed Mr. Deeg was only using one pivot for the lands described under permit # 41-07076. Therefore, I did not include the new pivot in the diversion rate or the annual volume for this permit and recommended that the permit be licensed under the diversion rate of the South Pivot. According to Shelly King (State Office) and Allen Merritt (Southern Office Manager), Mr. Deeg can install this pivot but should be limited to diversion rate and volume of the South Pivot.

I have attached to this memo the amount of water diverted through this pivot with the end gun on and a map showing where the new pivot was installed. I have also included pictures of the new pivot.

There was a question concerning the accuracy of the Polysonic measurement made on Mr. Deeg's irrigation system. Therefore, I calculated the diversion rate using the theoretical pump capacity calculation. I measured and averaged the pressure at the pivots which would be lower than the pressure at the pumps, due to friction losses and factor favorably for Mr. Deeg. The average psi was calculated as follows:

North Pivot	=	66	psi
South Pivot	=	82	psi
East Pivot	=	43.5	psi
West Pivot	=	65	psi
Total	=	256.5	psi

$256.5 \text{ psi} / 4 = 64.1 \text{ average psi}$

I also used the static water level of the well for the lift. Like the psi readings this water level does not show the drawn down effect (dynamic pumping level) of the well and would also be in favor of Mr. Deeg.

I used the following formula to determine the rate of flow:

$$Q = \frac{(8.8) \times (\text{H.P.}) \times (\text{EFF.})}{(\text{LIFT}) + (\text{PSI} \times 2.31)}$$

ASSUMPTION: 70% efficiency is a standard IDWR factor, the actual efficiency would probably be different dependent upon wear & tear, quality of design, installation, and other factors.

The following is my theoretical calculation of Mr. Deeg's Well:

$$Q = \frac{(8.8) \times (500 \text{ Hp well} + 150 \text{ Hp booster}) \times (0.70)}{(452) + (64.1 \text{ psi} \times 2.31)} =$$

$$Q = \frac{4004}{600.07} \Rightarrow Q = 6.67 \text{ cfs}$$

CONCLUSION:

The polysonic measurement of the Mr. Deeg's system (6.68 cfs) is very close to the theoretical calculation. Therefore, I believe that the polysonic measurement correct and representative of the system capacity at the time of measurement.

MEMORANDUM

TO: GENERAL FILE

FROM: DANIEL A. NELSON FIELD EXAMINER

DATE: 7-23-97

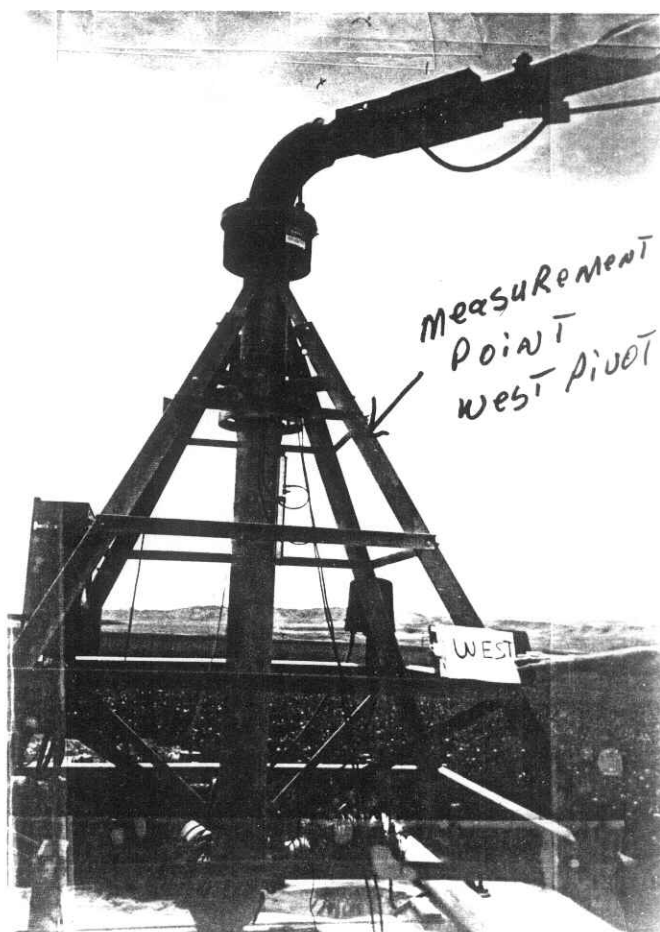
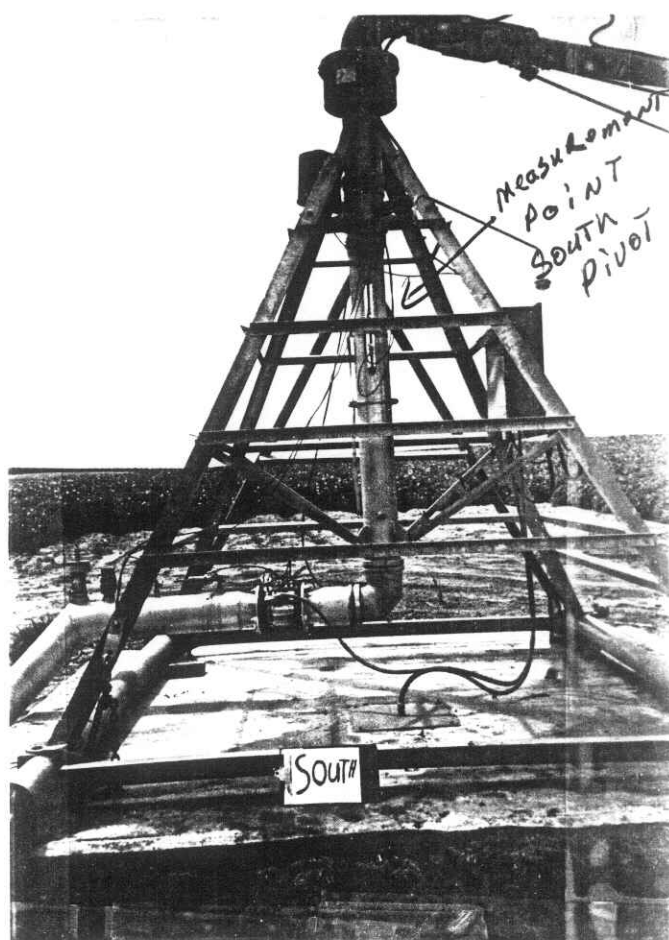
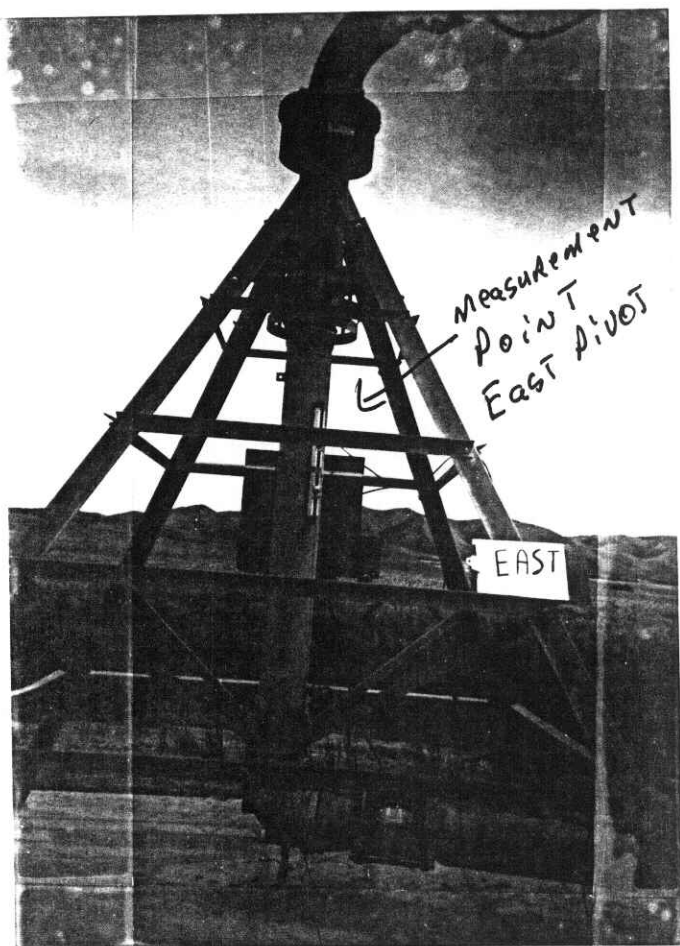
SUBJECT: REMEASUREMENT SYSTEM CAPACITY FOR PERMIT NUMBER'S
41-07076 AND 41-07081

Mr. Deeg called our office and claimed that the measurements that were taken during the original field exam were not the maximum amount the system could produce. I had to go back to Mr. Deeg's on 7-17-97 to remeasure the South Pivot. The South Pivot was measured without the end gun operating and permit # 41-07076's diversion and annual volume rates were going to be based on the water usage of that pivot. Therefore, while I was Mr. Deeg's measuring the South Pivot I also measured the system capacity again. The following numbers show the measurements taken on 7-17-97:

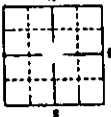
New Pivot w/o end gun	1.14 cfs
South Pivot w/o end gun	1.74 cfs
West Pivot w/o end gun	2.05 cfs
<u>East Pivot w/o end gun</u>	<u>1.64 cfs</u>
System Capacity	6.57 cfs

After the second measurement I am convinced that the first measurement of 6.68 cfs was the true system capacity of the well. Therefore, I will recommend that the capacity of the well should be 6.68 cfs.

I have attached the measurements sheets and photographs of the points measured during the second measurement to this memo.



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
BALLPOINT PENState law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion or abandonment of the well.

1. WELL OWNER Name <u>TIMOTHY P. DEEG</u> Address <u>2957 DEEG ROAD AMERICAN FALLS, ID 87211</u> Drilling Permit No. <u>41-92-S-002</u> Water Right Permit No. <u>41-07081</u>	7. WATER LEVEL <u>452</u> Static water level <u>320</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality _____ Describe artesian or temperature zones below.																																																																																																																																																																																														
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Well diameter increase ☐ Modification ☐ Abandoned (describe abandonment or modification procedures such as liners, screen, materials, plug depths, etc. in lithologic log, section 9.)	8. WELL TEST DATA ☒ Pump ☐ Baller ☐ Air ☐ Other _____ <table border="1" style="width: 100%; border-collapse: collapse;"><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr><tr><td>2600</td><td>480</td><td>3</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table>	Discharge G.P.M.	Pumping Level	Hours Pumped	2600	480	3																																																																																																																																																																																								
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3. PROPOSED USE ☐ Domestic ☒ Irrigation ☐ Monitor ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	9. LITHOLOGIC LOG <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th rowspan="2">Bore Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td>24</td><td>0</td><td>9</td><td>topsoil & sandy clay</td><td></td><td></td></tr><tr><td></td><td>9</td><td>16</td><td>sandy clay & some gravel</td><td></td><td></td></tr><tr><td></td><td>16</td><td>35</td><td>sandy clay & gravel</td><td></td><td></td></tr><tr><td></td><td>35</td><td>42</td><td>clay & gravel</td><td></td><td></td></tr><tr><td></td><td>42</td><td>51</td><td>clay & some gravel</td><td></td><td></td></tr><tr><td>20</td><td>51</td><td>69</td><td>brown lava solid</td><td></td><td></td></tr><tr><td></td><td>69</td><td>83</td><td>gray lava loose</td><td></td><td></td></tr><tr><td></td><td>83</td><td>92</td><td>brown lava hard</td><td></td><td></td></tr><tr><td></td><td>92</td><td>108</td><td>brown, red, & gray cinders</td><td></td><td></td></tr><tr><td></td><td>108</td><td>140</td><td>brown clay & sandstone</td><td></td><td></td></tr><tr><td></td><td>140</td><td>187</td><td>brown sandstone soft</td><td></td><td></td></tr><tr><td></td><td>187</td><td>195</td><td>hard red sandstone</td><td></td><td></td></tr><tr><td></td><td>195</td><td>278</td><td>light gray sandstone</td><td></td><td>x</td></tr><tr><td></td><td>278</td><td>315</td><td>gray sandstone & gravel</td><td></td><td>x</td></tr><tr><td></td><td>315</td><td>350</td><td>white sandstone & gravel</td><td></td><td>x</td></tr><tr><td></td><td>350</td><td>417</td><td>gray sandstone</td><td></td><td></td></tr><tr><td></td><td>417</td><td>440</td><td>black sandstone & gravel</td><td></td><td>x</td></tr><tr><td></td><td>440</td><td>453</td><td>gray sandstone</td><td></td><td></td></tr><tr><td></td><td>453</td><td>475</td><td>sandstone & gravel</td><td></td><td>x</td></tr><tr><td></td><td>475</td><td>670</td><td>sandstone some caving</td><td></td><td></td></tr><tr><td></td><td>670</td><td>685</td><td>black decomposed lava</td><td></td><td>x</td></tr><tr><td></td><td>685</td><td>733</td><td>black lava firm</td><td></td><td></td></tr><tr><td></td><td>733</td><td>742</td><td>black hard lava</td><td></td><td></td></tr><tr><td></td><td>742</td><td>801</td><td>black lava firm</td><td></td><td></td></tr><tr><td></td><td>801</td><td>820</td><td>black decomposed lava</td><td></td><td>x</td></tr><tr><td></td><td>820</td><td>829</td><td>black lava solid</td><td></td><td></td></tr><tr><td></td><td>829</td><td>837</td><td>black lava soft</td><td></td><td>x</td></tr><tr><td></td><td>837</td><td>857</td><td>black lava solid</td><td></td><td></td></tr><tr><td></td><td>857</td><td>910</td><td>red rock solid</td><td></td><td></td></tr><tr><td></td><td>910</td><td>939</td><td>gray lava & conglomerate</td><td></td><td></td></tr></tbody></table>	Bore Diam.	Depth		Material	Water		From	To	Yes	No	24	0	9	topsoil & sandy clay				9	16	sandy clay & some gravel				16	35	sandy clay & gravel				35	42	clay & gravel				42	51	clay & some gravel			20	51	69	brown lava solid				69	83	gray lava loose				83	92	brown lava hard				92	108	brown, red, & gray cinders				108	140	brown clay & sandstone				140	187	brown sandstone soft				187	195	hard red sandstone				195	278	light gray sandstone		x		278	315	gray sandstone & gravel		x		315	350	white sandstone & gravel		x		350	417	gray sandstone				417	440	black sandstone & gravel		x		440	453	gray sandstone				453	475	sandstone & gravel		x		475	670	sandstone some caving				670	685	black decomposed lava		x		685	733	black lava firm				733	742	black hard lava				742	801	black lava firm				801	820	black decomposed lava		x		820	829	black lava solid				829	837	black lava soft		x		837	857	black lava solid				857	910	red rock solid				910	939	gray lava & conglomerate		
Bore Diam.	Depth		Material	Water																																																																																																																																																																																											
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	278	315	gray sandstone & gravel		x																																																																																																																																																																																										
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	440	453	gray sandstone																																																																																																																																																																																												
	453	475	sandstone & gravel		x																																																																																																																																																																																										
	475	670	sandstone some caving																																																																																																																																																																																												
	670	685	black decomposed lava		x																																																																																																																																																																																										
	685	733	black lava firm																																																																																																																																																																																												
	733	742	black hard lava																																																																																																																																																																																												
	742	801	black lava firm																																																																																																																																																																																												
	801	820	black decomposed lava		x																																																																																																																																																																																										
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	829	837	black lava soft		x																																																																																																																																																																																										
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	910	939	gray lava & conglomerate																																																																																																																																																																																												
4. METHOD DRILLED ☐ Rotary ☐ Air ☐ Auger ☐ Reverse rotary ☒ Cable ☐ Mud ☐ Other _____ (backhoe, hydraulic, etc.)	10. Work started <u>4-21-92</u> finished <u>7-30-92</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>20 inches</td><td>+ 1 feet</td><td>51 feet</td></tr><tr><td>250 inches</td><td>18 inches</td><td>+ 1 feet</td><td>719 feet</td></tr><tr><td> </td><td> </td><td> </td><td> </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 ☐ Gun Size of perforation? <u>4</u> inches by <u>3/8</u> inches <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th>Number</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>18 rows</td><td>210 feet</td><td>330 feet</td></tr><tr><td> </td><td>450 feet</td><td>490 feet</td></tr><tr><td> </td><td>516 feet</td><td>716 feet</td></tr></tbody></table> Well screen installed? ☐ Yes ☒ No Manufacturer _____ Type _____ Top Packer or Headpipe _____ Bottom of Tailpipe _____ 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>25</u> Material used in seal: ☐ Cement grout ☒ Bentonite ☐ Pudding clay ☐ Cement 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>4" pipe</u>	Thickness	Diameter	From	To	250 inches	20 inches	+ 1 feet	51 feet	250 inches	18 inches	+ 1 feet	719 feet					Number	From	To	18 rows	210 feet	330 feet		450 feet	490 feet		516 feet	716 feet																																																																																																																																																																			
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6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>POWER</u> Address of Well Site <u>2957 DEEG ROAD AM. FALLS</u> (give at least name of road) SW <u>1/4</u> SE <u>1/4</u> Sec. <u>6</u> T. <u>9</u> N ☐ or S ☒ R. <u>31</u> E ☐ or W ☐	11. DRILLER'S CERTIFICATION I/We certify that all minimum well construction standards were compiled with at the time the rig was removed. <u>3</u> Firm <u>SHERMAN COUCH WELL DRILLING 161</u> <u>340 WAUNA VISTA DR.</u> Address <u>BOILEY IDAHO 83318</u> Date <u>7-30-92</u> Signed by Drilling Supervisor <u>Sherman Couch</u> and <u>Chuck Potter</u> (Operator) (if different than the Drilling Supervisor)																																																																																																																																																																																														

USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT

Latitude 42° 39.80 North
Longitude 112° 52.67 West
Altitude 4862'
MGRS 12TUC 45932406

MAY 28 1997

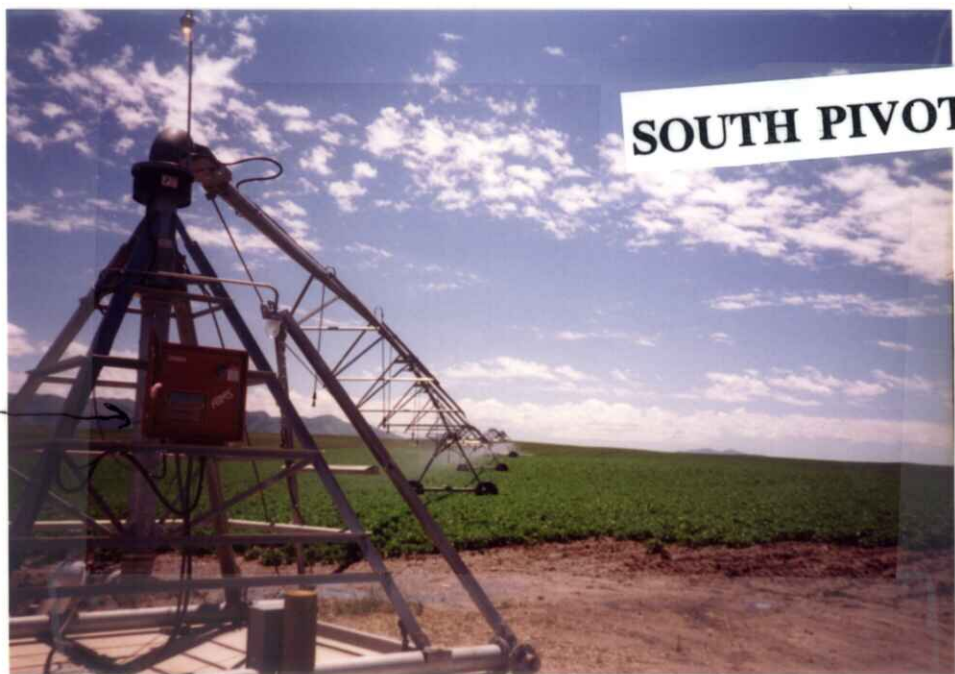
Department of Water Resources
Southern Region



This is a picture of the
new pivot that was installed
between the original exam and second
measurement.



Measurement
Point

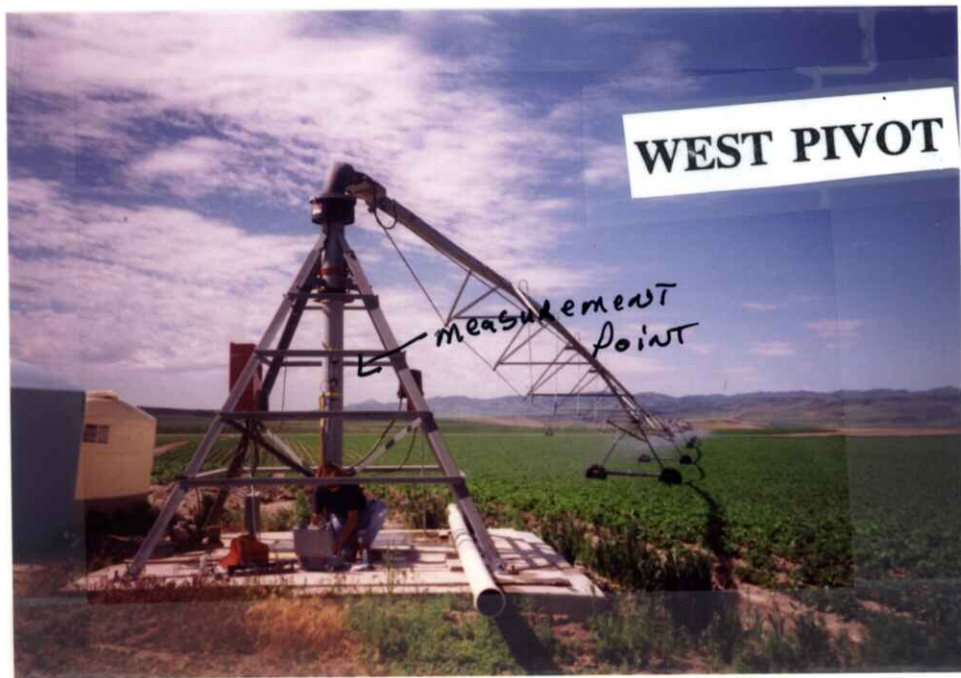


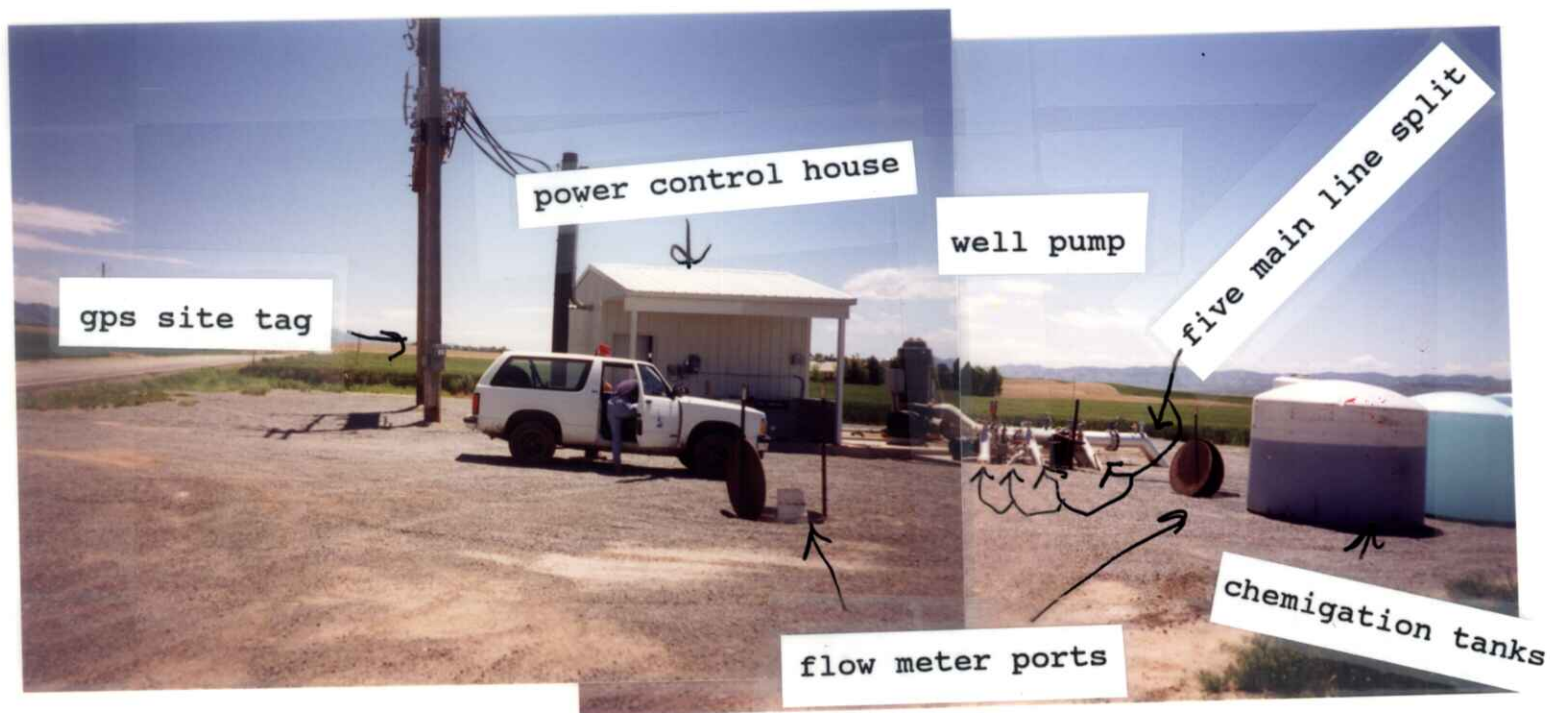
SOUTH PIVOT



NORTH PIVOT

Measurement
Point





Both the above and below pictures are of the point of diversion. These pictures show the two booster pumps and the five mainlines that come off of the well.

