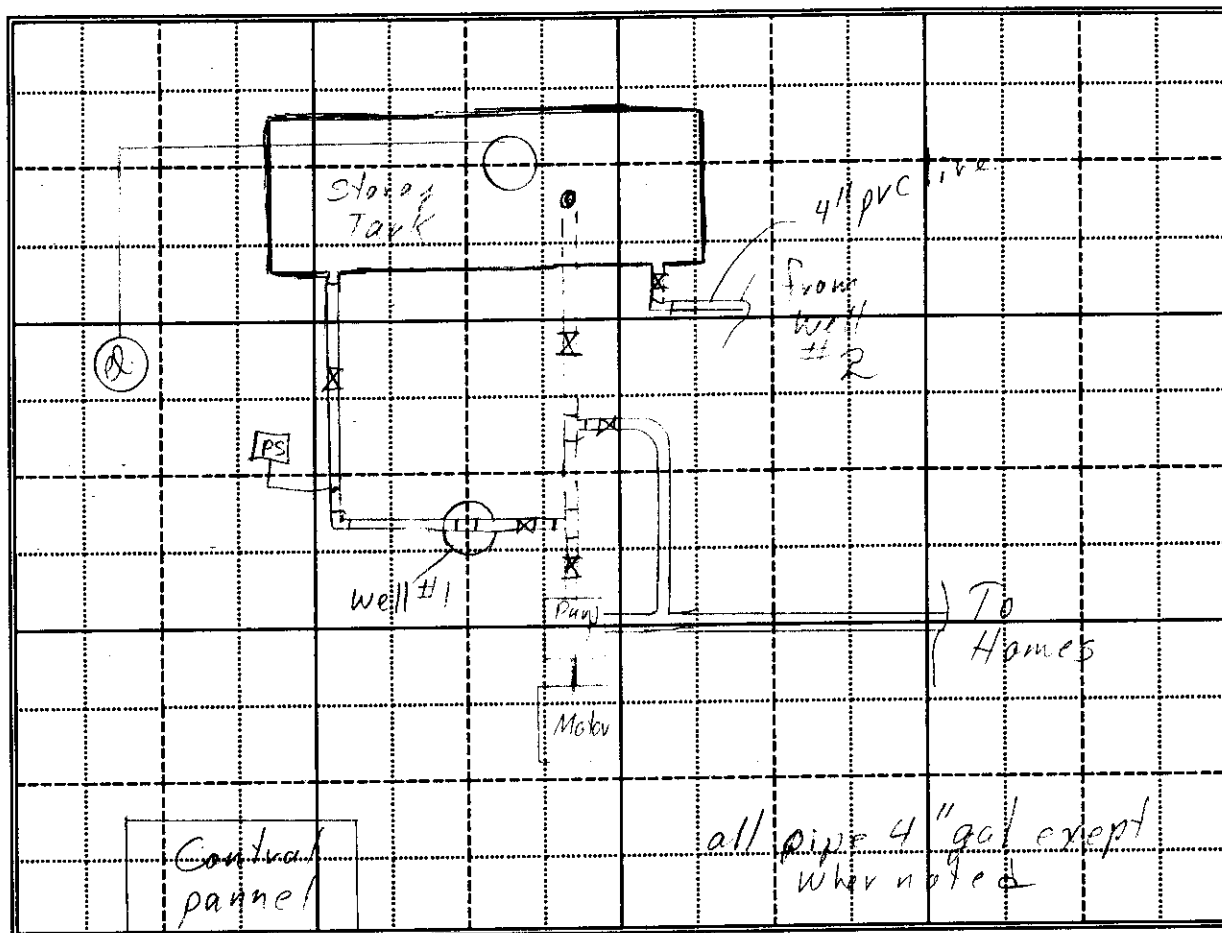


[illegible]

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	Model Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
#1	Franklin	5	2343177004	Franklin	4"
#2	"	5	"	"	4"
Bosler	Centron	7.5	S 18 4T C		4"

*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

2. Measurements: SONIC METER WOULD GIVE AN ACCURATE
READINGS. EACH WELL WOULD/COULD PRODUCE 0.20 CFS
SONIC METER READING WAS 0.40 CFS FROM BOOSTER PUMP
FOR A TOTAL OF 0.40 CFS

$$CFS = \frac{5hp (6.16)}{160' +} = 0.20 CFS$$

E. NARRATIVE/REMARKS/COMMENTS

Well #3 not drilled - System has Well #1 and Well #2 as supplies.

Water is pumped from wells 1 & 2 into a 2000 gal storage there Cl is added. The water is supplied to the homes by a 1/2 HP booster pump through a 4" gal line.

There are 19 homes on the system. Lot #3 is not used and does not have a home on it.

Allowing 0.02 CFS for each lot the maximum would be 0.38 CFS instead of 0.52

The Annual volume is not available - system does not have flow meter. One should be installed

$$\text{CFS} = \frac{(5 \text{ hp}) \times (6.16)}{\left(\frac{160}{\text{DEPTH TO WATER}} \right) \left(\frac{\text{Open discharge into tank}}{\text{well}} \right)} = 0.20 \text{ CFS}$$

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

F. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

0.20 cfs each well for a total of 0.40 cfs

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 16 \times 4 = 64 \text{ AF/A}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = .32 \times 214 \times 1.9835 = 135 \text{ AF/A}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 64$$

2. Volume Calculations for Other Uses:

$$\text{Domestic 19 homes} \times 0.6 \text{ AF/A} = 11.4 \text{ AF/A}$$

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Domestic	1/1	12/31	0.20	11.4 AF/A
IRR	4/1	10/31	0.32	64 AF/A
Totals:			0.40 cfs	75.4

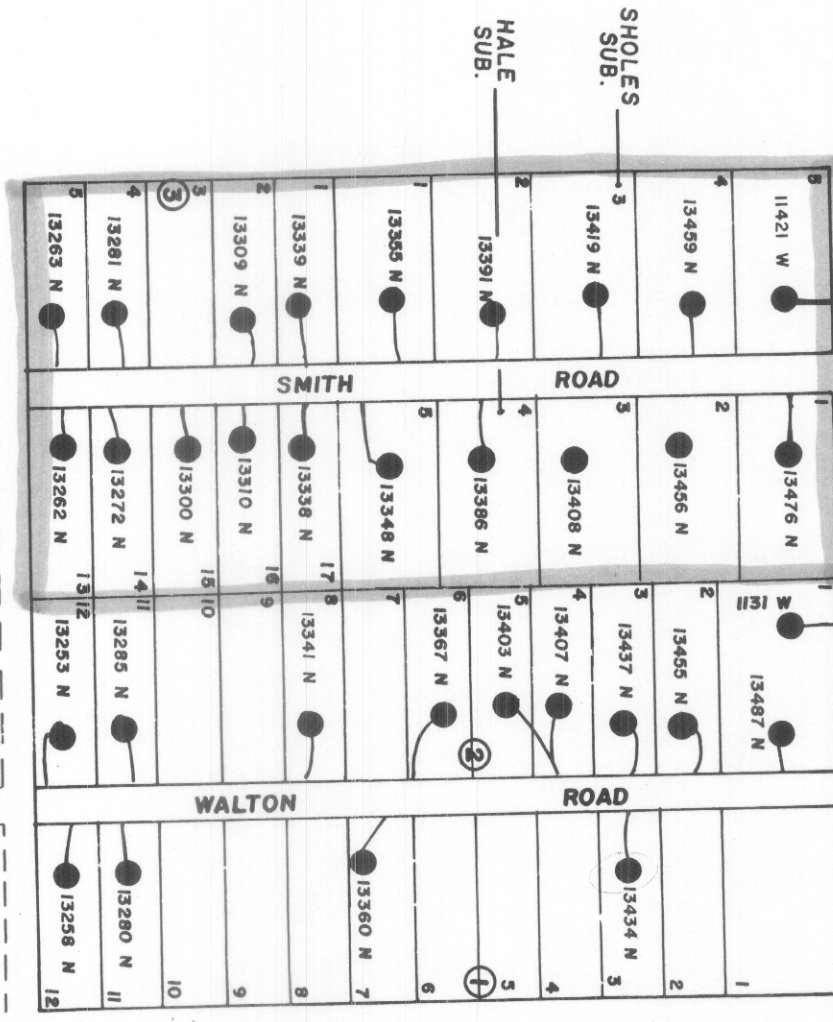
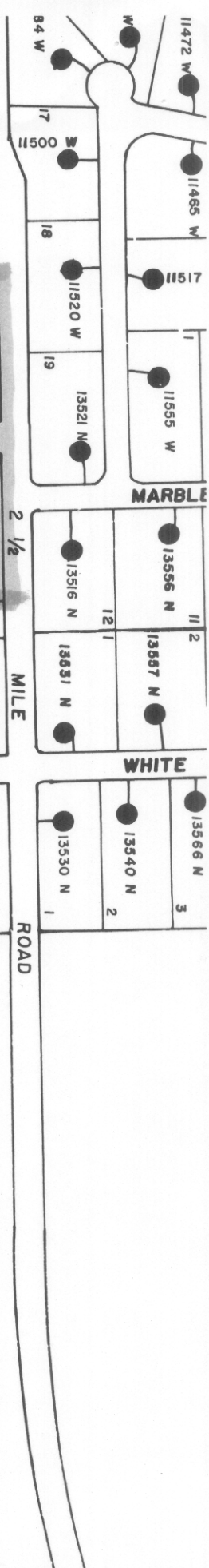
2. Recommended Amendments

☒ 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. AUTHENTICATIONField Examiner's Name Lee Simmons Date 7/29/02Reviewer DAVE CARLSON Date 8/20/2002

Hwy - OK

SEAL



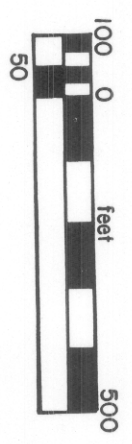
SUNSET CREST SUBDIVISION

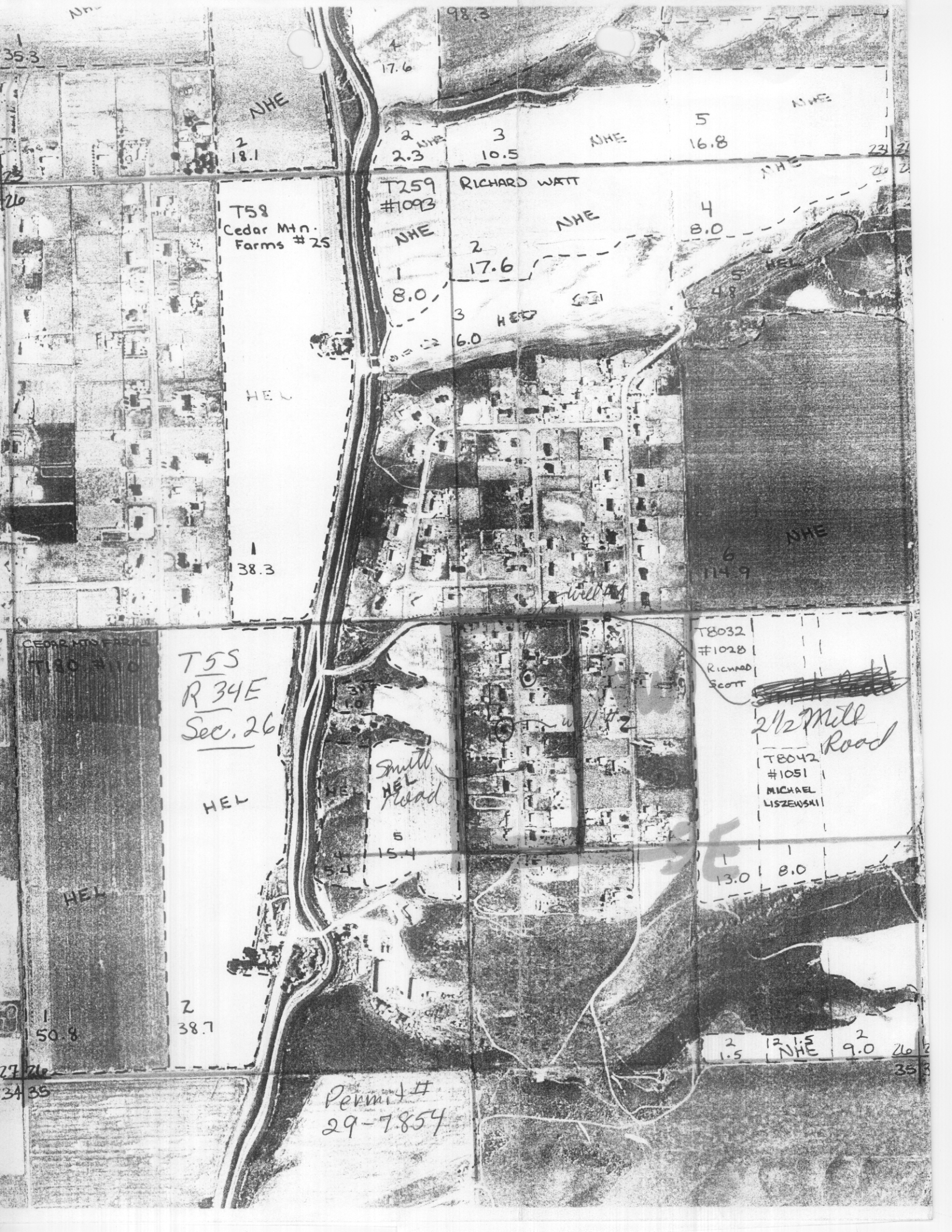
13500 N

NO SCALE

DETAIL NO. 2

MAP 2





NHE

2
18.1

T58
Cedar Mtn.
Farms #25

HEL

38.3

T259
#1093

NHE

1
8.0

RICHARD WATT

NHE

2
17.6

3
6.0

HEL

5
16.8

4
8.0

5
4.8

6
114.9

T8032
#1028
Richard
Scott

~~Smith Road~~
2 1/2 Mill
Road

T8042
#1051
MICHAEL
LISZEWSKI

1
13.0

1
8.0

T55
R 34E
Sec. 26

HEL

Smith
Road
HEL

5
15.4

4
5.4

2
38.7

Permit #
29-7854

2
1.5

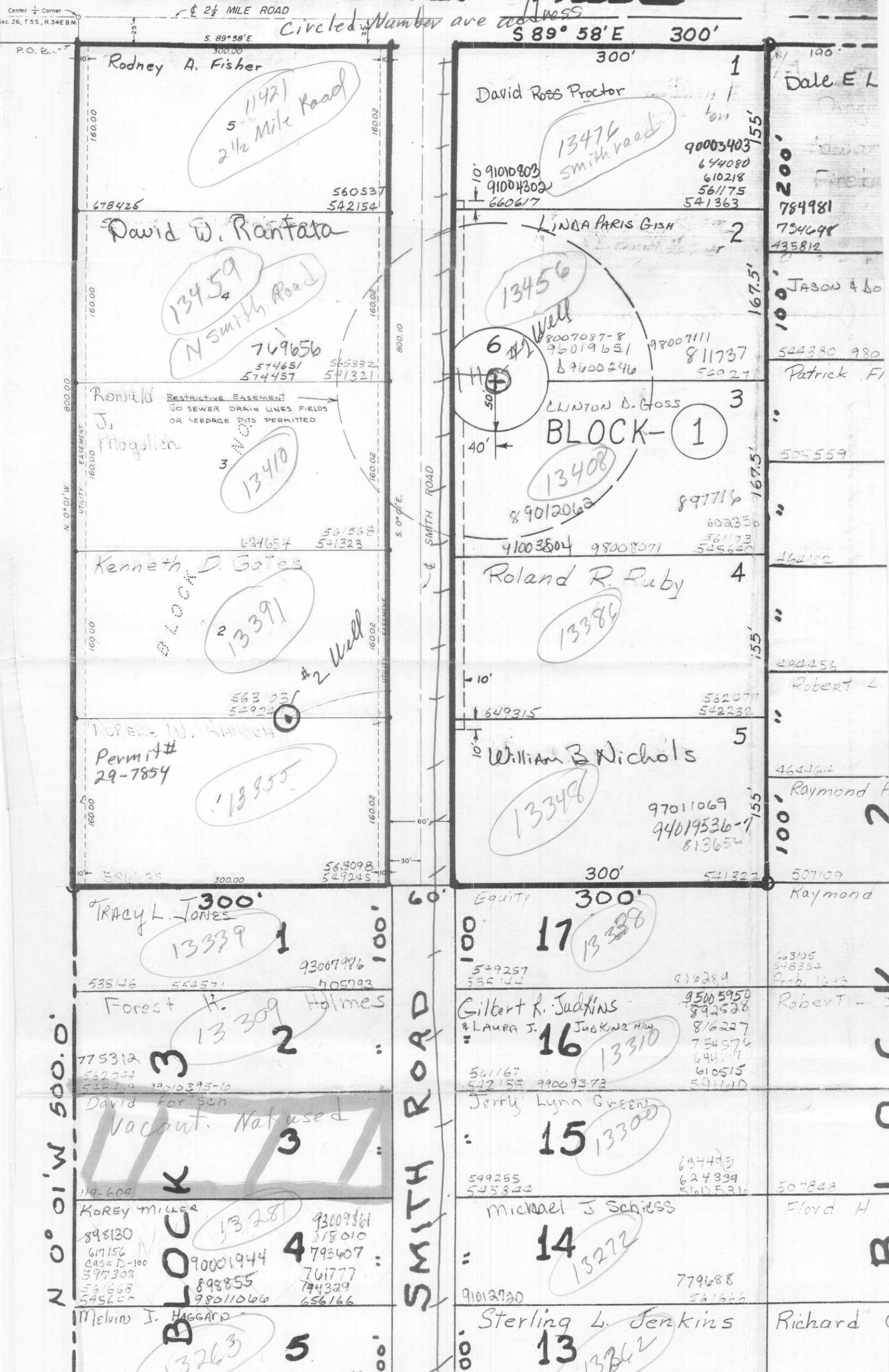
12
NHE

2
9.0

26
35.8

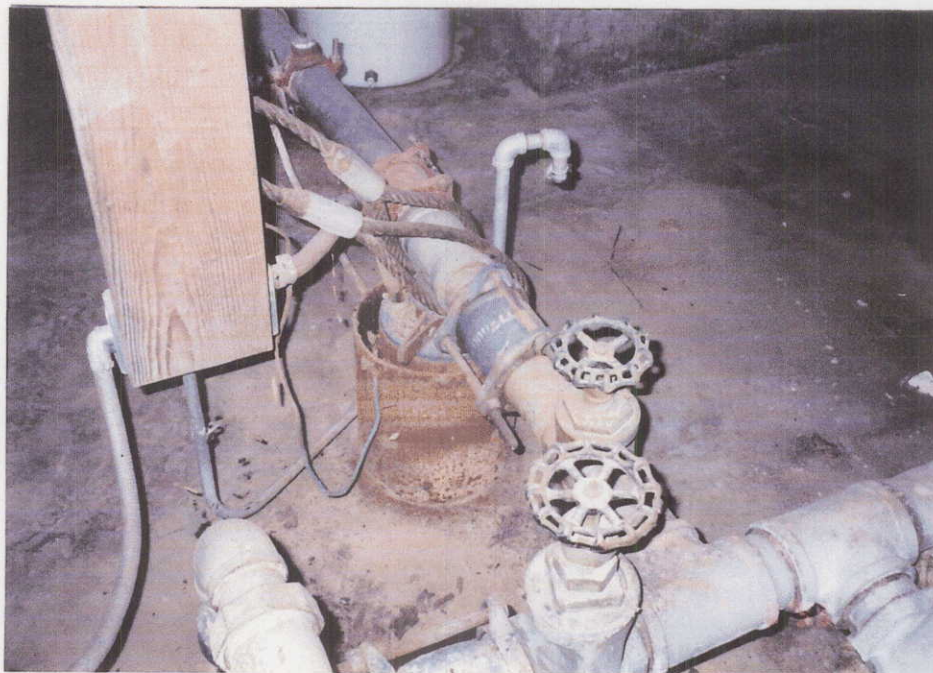
Su

S 89° 58' E 300'



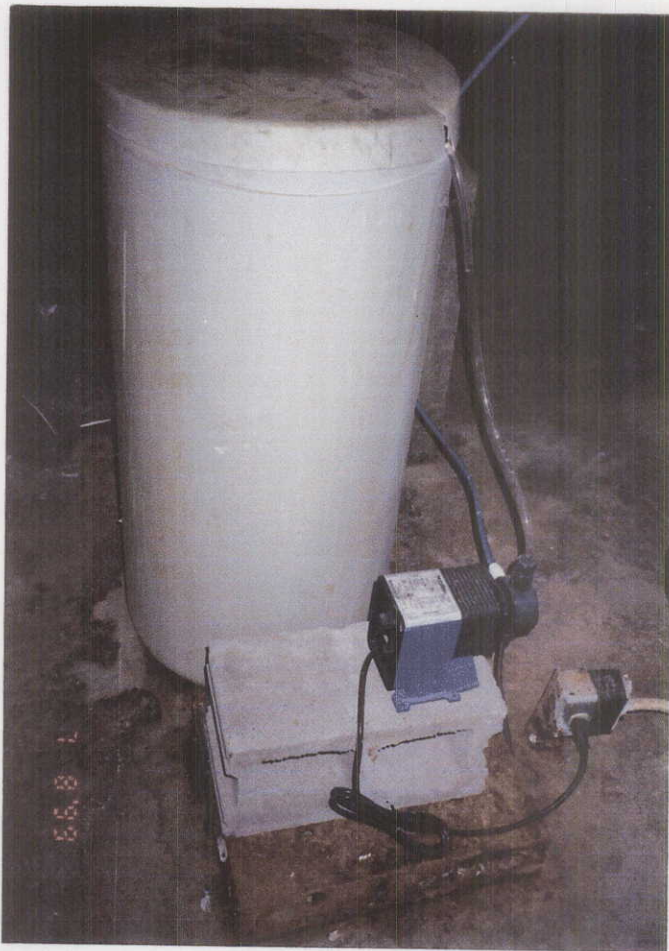


Inlet to 2000 gal Storage tank



Piping from Well # 1 to Storage tank and Piping leading to Booster pump

Permit #
29-7854

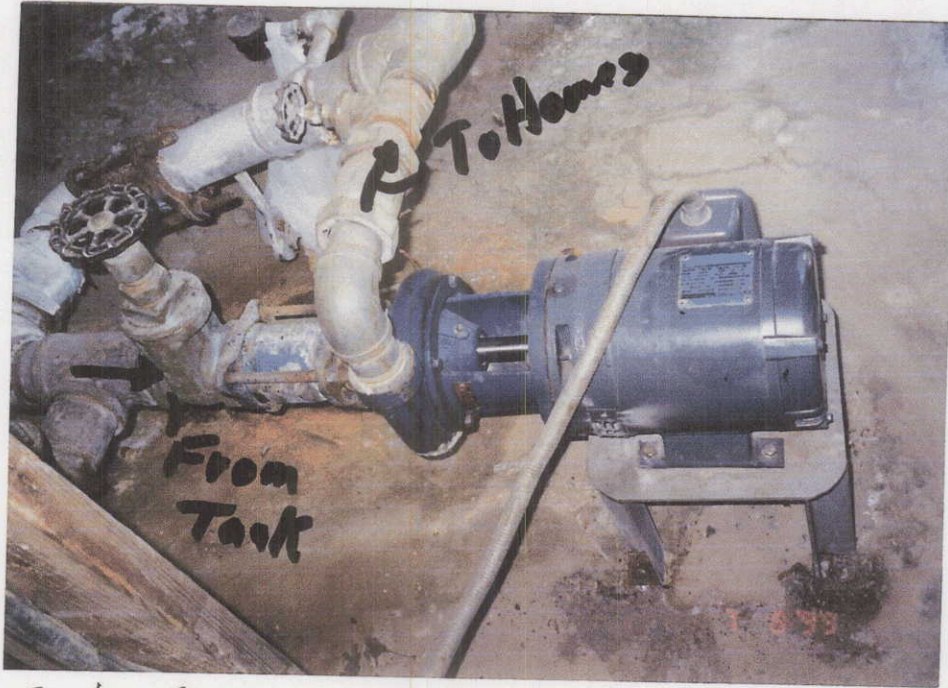


Cl² System



Looking West at well #2

Permit #29-7854



Buster Pump



Control Panel on North Wall of Well House

Permit # 29-1854



looking East at Well House



looking South down Smith road at place
of use - Well House on left.

Permit #
29-7854