

NEVADA STATE HEALTH LABORATORY  
NEVADA DIVISION OF HEALTH  
1660 N. Virginia Street  
Reno, Nevada 89503  
(702) 688-1335

RECEIVED

96 SEP 12 PM 1:32

129449

**WATER CHEMISTRY ANALYSIS:**

Attn: Fees may apply to some types of samples.

All of the information below must be filled in  
or the analysis will not be performed.

**TYPE OF ANALYSIS:**

- Check here for ROUTINE DOMESTIC ANALYSIS.
- Circle the constituents needed for PARTIAL ANALYSIS.

State NV County WASHOE  
Township 29N Range 28E Section 21  
General Location EMPIRE  
Source Address EMPIRE FARMS COOLING POND

**SAMPLING INSTRUCTIONS:**

The sample submitted must be representative of the source. Spring and surface water samples should be as free of dirt and debris as possible. Wells should be pumped thoroughly before sampling, changing the water in the casing at least three times. Product water from filters should be sampled after running for about ten (10) minutes.

Sampled by S. NIXON Date 9/11/96  
Owner M. STEWART Phone \_\_\_\_\_  
Address RODEO CREEK RD.  
City EMPIRE State NV

**REASON FOR ANALYSIS:**

- Loan
- Personal health reasons
- Purchase of the property
- Rental or sale of property
- Subdivision approval
- Other PERMITTING / MONITORING

**USE OF WATER:**

- Domestic drinking water
  - Geothermal
  - Industrial or mining
  - Irrigation
  - Other \_\_\_\_\_
- Initials \_\_\_\_\_

**REPORT TO:**

Name EMPIRE FARMS RITA BATES  
Address P O BOX 40  
City EMPIRE  
State NV Zip 89405

**SOURCE OF WATER:**

- Filter  Yes  No
- Public  Yes  No
- Spring \_\_\_\_\_
- Well \_\_\_\_\_ Depth \_\_\_\_\_ ft.
- Hot \_\_\_\_\_ Cold
- IN USE  Yes  No

Type COOLING WATER  
Name COOLING POND  
Surface   
Casing diameter \_\_\_\_\_ in.  
Casing depth \_\_\_\_\_ ft.

The results below are representative only of the sample submitted to this laboratory.

FOR LABORATORY USE ONLY						PRINT OTHER DESIRED CONSTITUENTS BELOW			
Constituent	ppm	Constituent	ppm	Constituent	ppm	Constituent	S.U.	Constituent	ppm
T.D.S. @ 103° C.	3398	Chloride	1166	Iron	0.28	Color	20		
Hardness	448	Nitrate -N	0.3	Manganese	0.02	Turbidity	2.5		
Calcium	133	Alkalinity	272	Copper	0.12	pH	8.81		
Magnesium	28	Bicarbonate	234	Zinc	0.01	EC	5358		
Sodium	1020	Carbonate	48	Barium	0.11	SI@20C	1.71		
Potassium	29	Fluoride	1.81	Boron	2.7				
Sulfate	787	Arsenic	0.025	Silica	149				

Fee \$100<sup>00</sup> CK# 1229  
Collected by R# 3273  
PWS I.D. \_\_\_\_\_  
SDWA—Pri. \_\_\_\_\_ Sec. \_\_\_\_\_  
1st \_\_\_\_\_ 2nd \_\_\_\_\_ 3rd \_\_\_\_\_  
Date Rec'd 9/12/96 Init SK

Remarks \_\_\_\_\_  
\_\_\_\_\_ SK  
9/12/96

ppm = parts per million, milligrams per liter  
S.U. = Standard Units



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129453

**WATER CHEMISTRY ANALYSIS:**

All of the information below must be filled in  
or the analysis will not be performed.

Attn: Fees may apply to some types of samples.

State NV County WASHOE  
Township 29N Range 23E Section 21  
General Location EMPIRE  
Source Address EMPIRE FARMS

**TYPE OF ANALYSIS:**

- Check here for ROUTINE DOMESTIC ANALYSIS.  
Circle the constituents needed for PARTIAL ANALYSIS.

**SAMPLING INSTRUCTIONS:**

The sample submitted must be representative of the source. Spring and surface water samples should be as free of dirt and debris as possible. Wells should be pumped thoroughly before sampling, changing the water in the casing at least three times. Product water from filters should be sampled after running for about ten (10) minutes.

Sampled by SNIXON Date 9/11/96  
Owner M. STEWART Phone 557-2015  
Address RODEO CREEK RD  
City EMPIRE State NV

**REASON FOR ANALYSIS:**

- Loan  
 Personal health reasons  
 Purchase of the property  
 Rental or sale of property  
 Subdivision approval  
 Other PERMITTING  
MONITORING

**USE OF WATER:**

- Domestic drinking water  
 Geothermal  
 Industrial or mining  
 Irrigation  
 Other.....  
Initials.....

**REPORT TO:**

Name EMPIRE FARMS, RITA BATES  
Address PO BOX 40  
City EMPIRE  
State NV Zip 89405

**SOURCE OF WATER:**

Filter  Yes  No  
Public  Yes  No  
Spring.....  
Well  Depth.....ft.  
Hot..... Cold   
IN USE  Yes  No  
Type.....  
Name PLANT OUTLET  
Surface.....  
Casing diameter.....in.  
Casing depth.....ft.

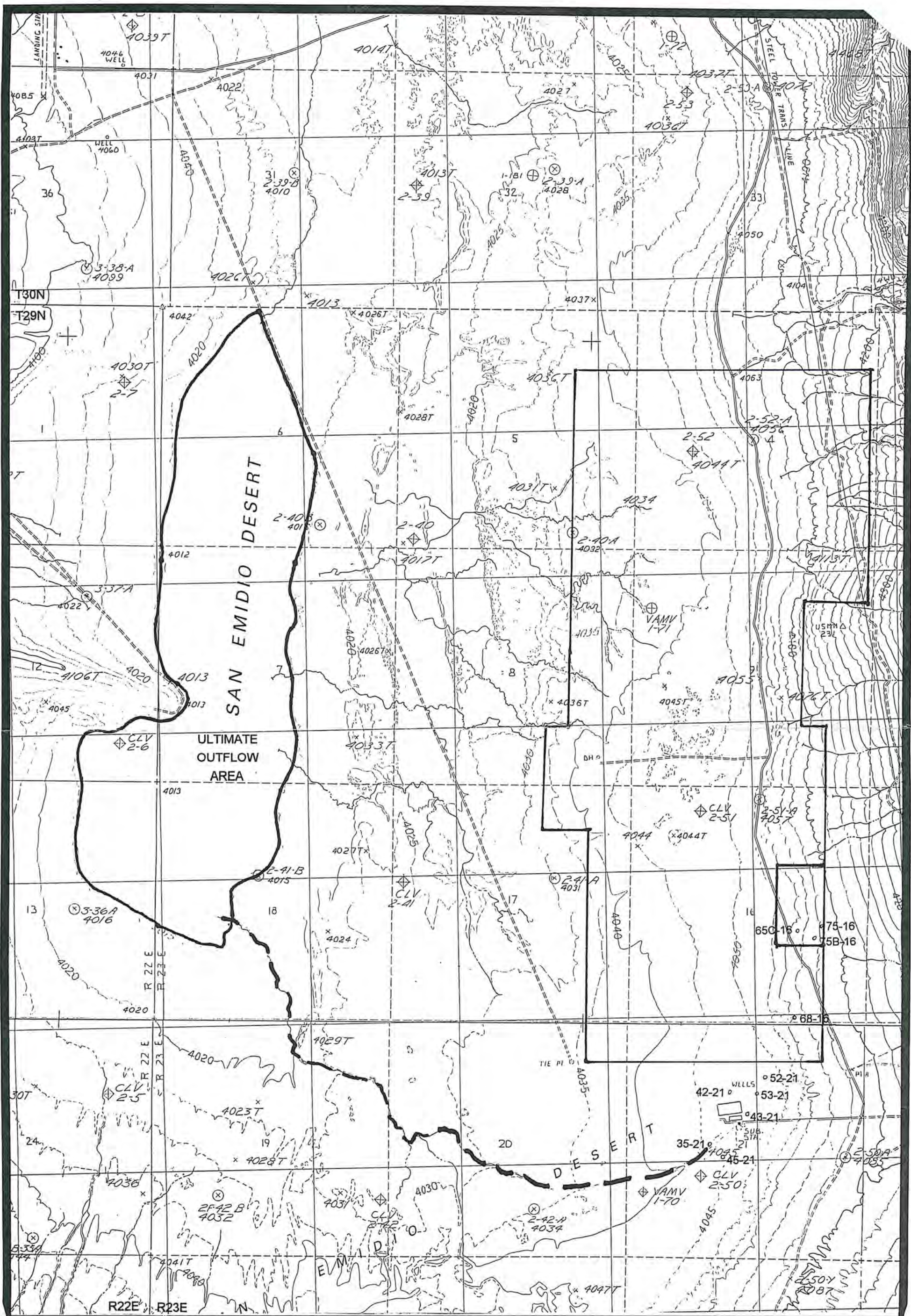
The results below are representative only of the sample submitted to this laboratory.

FOR LABORATORY USE ONLY						PRINT OTHER DESIRED CONSTITUENTS BELOW	
Constituent	ppm	Constituent	ppm	Constituent	ppm	Constituent	ppm
1.0225	3758	0.60	85.8	3.5	0.0	41	129453
T.D.S. @ 103° C.	4188	Chloride	2014	Iron	0.26	Color	25
Hardness	407	Nitrate -N	0.0	Manganese	0.09	Turbidity	23.0
Calcium	161	Alkalinity	70	Copper	0.00	pH	7.26
Magnesium	1	Bicarbonate	85	Zinc	0.00	EC	6947
Sodium	1206	Carbonate	0	Barium	0.19	SI@20C	-0.35
Potassium	105	Fluoride	4.36	Boron	5.9		
Sulfate	186	Arsenic	< 0.003	Silica	184		

Fee \$400.00 CK# 1229  
Collected by R# 3273  
PWS I.D. ....  
SDWA—Pri.....Sec.....  
1st.....2nd.....3rd.....  
Date Rec'd 9/12/96 Init SK  
ppm = parts per million, milligrams per liter  
S.U. = Standard Units

Remarks.....  
TKR  
9/21/96  
[Signature]





EXPLANATION

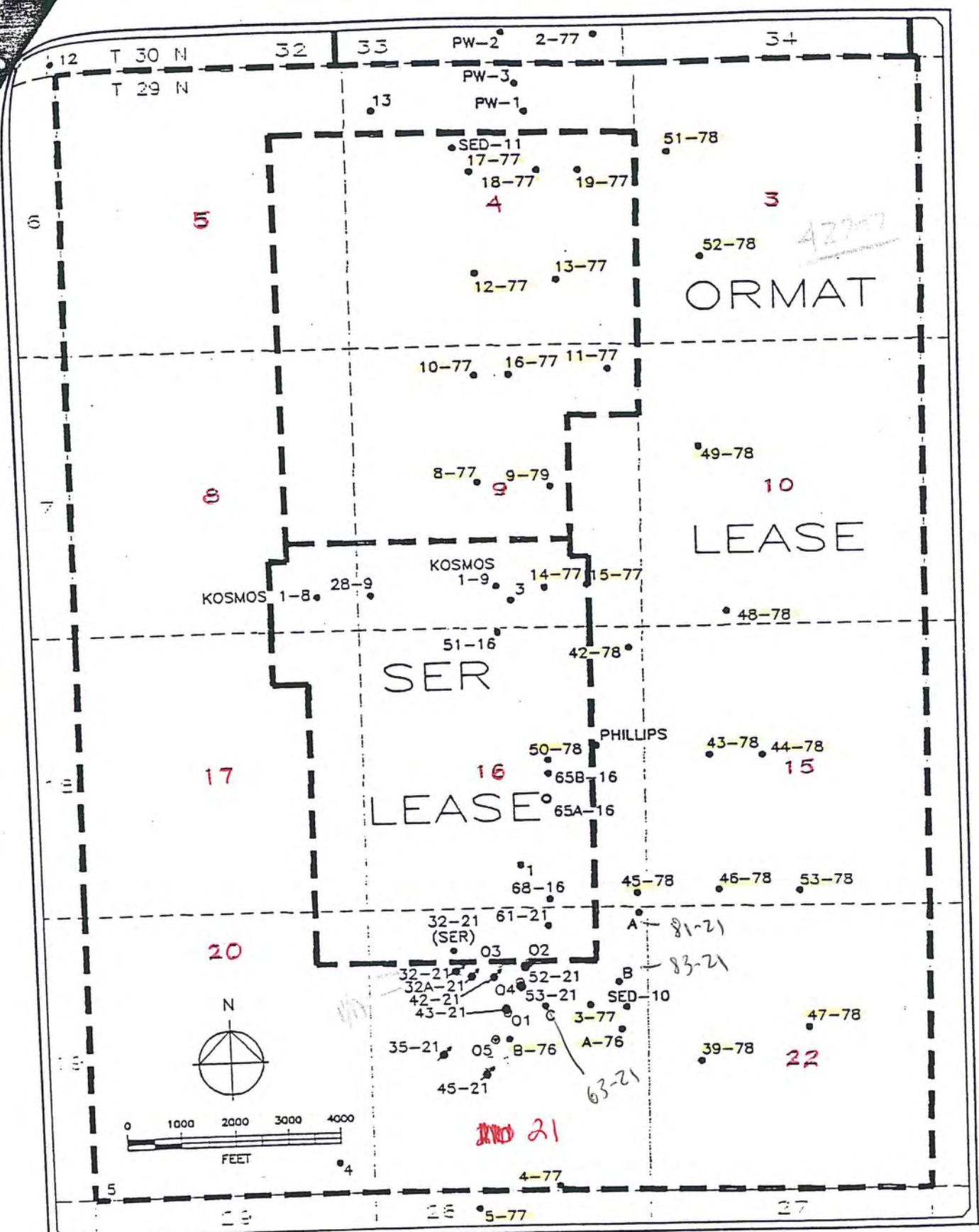
*2 1/2 miles of travel*

--- Fluid Flow Path



AMOR II CORPORATION  
Proposed Temporary Surface Discharge



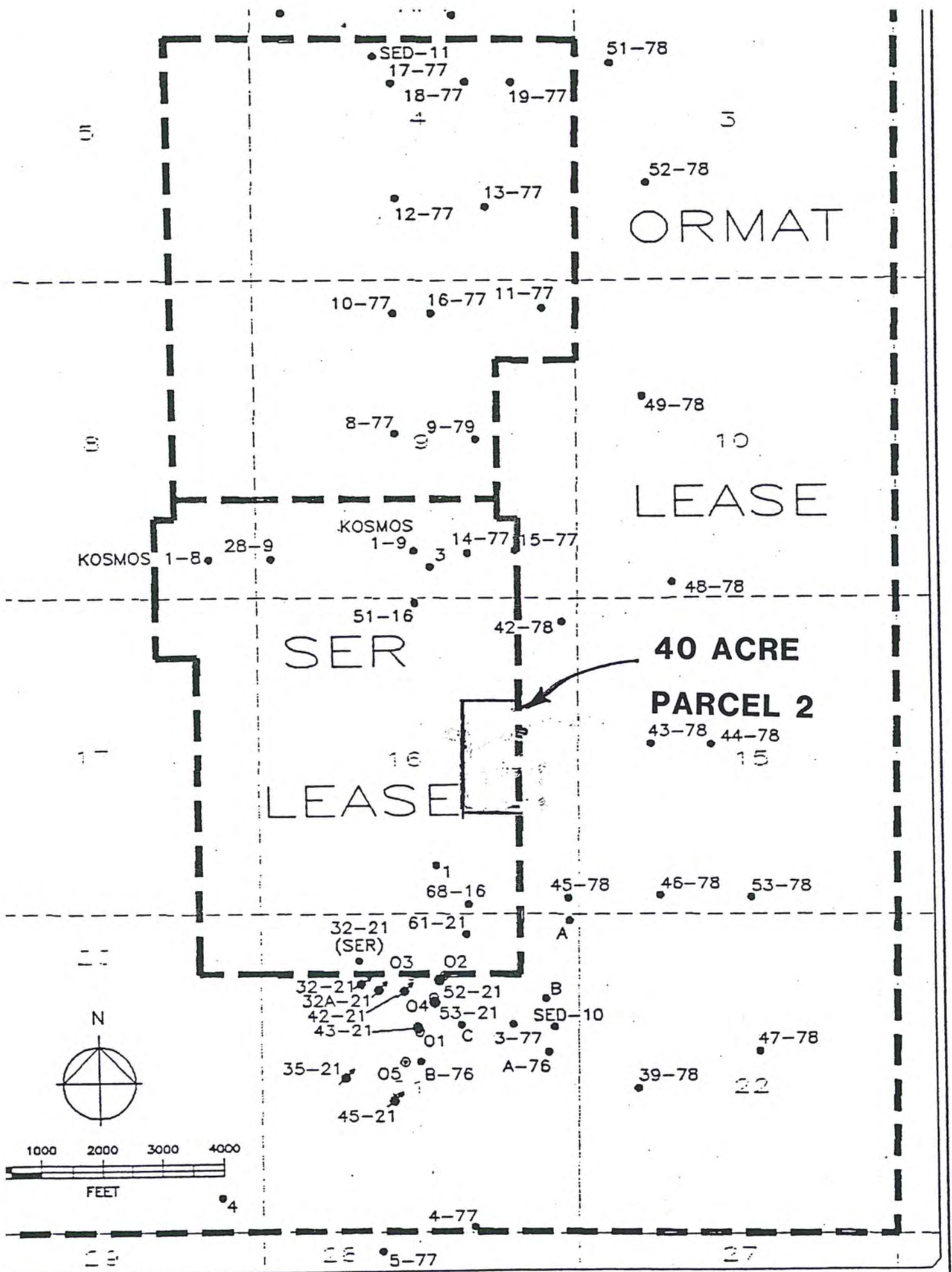


**LEGEND**

- Production well    ⊙ Observation well    ○ Permitted location
- ⦿ Injection well    ● Slim/gradient hole    — Lease boundary

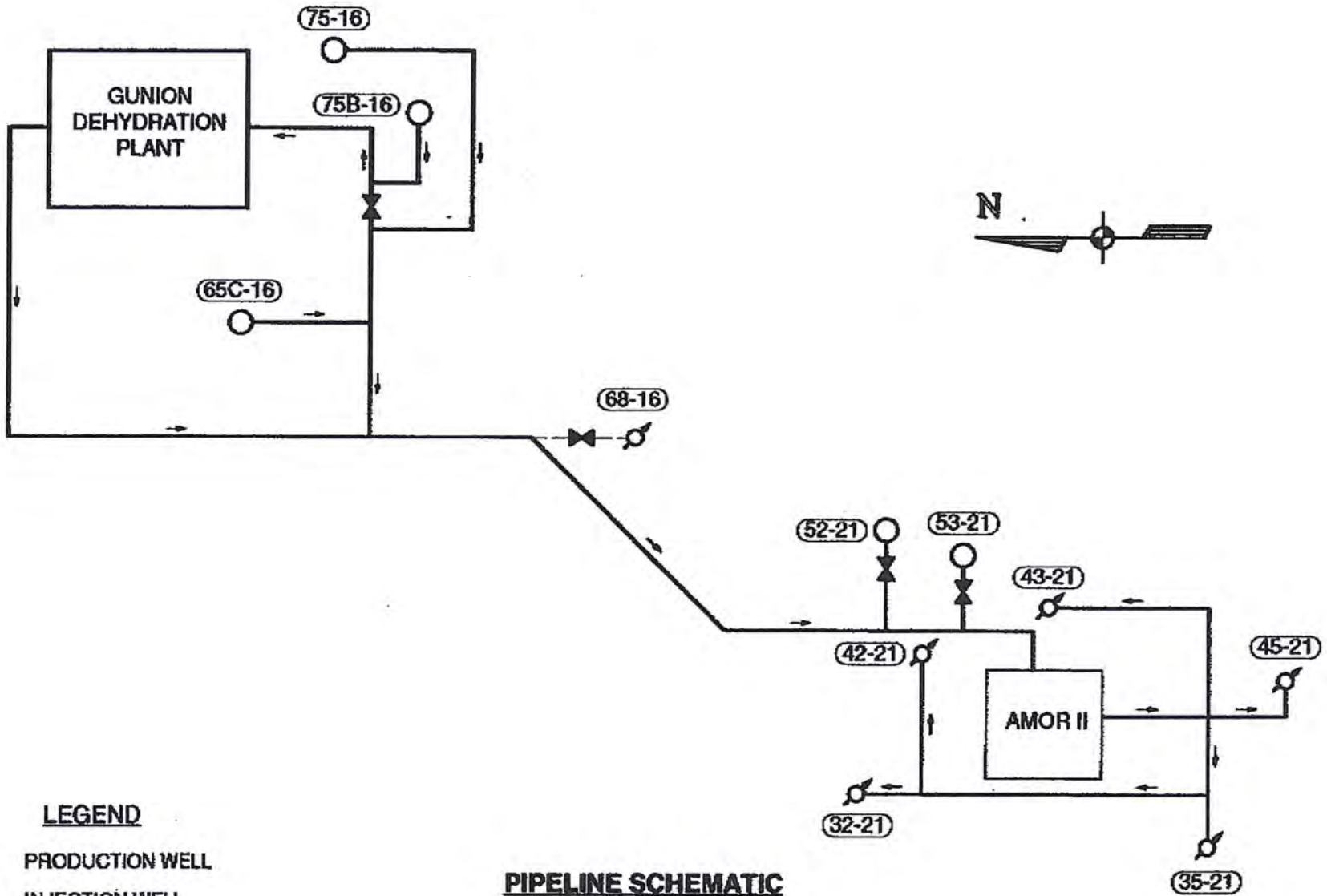
T 29 N  
R 23 E  
MDBEM  
MAP LOCATION

Figure 3.4: Well location map



● Production well   ⊙ Observation well   ○ Permitted location





**LEGEND**

- PRODUCTION WELL
- ⊕ INJECTION WELL

**PIPELINE SCHEMATIC**  
NO SCALE



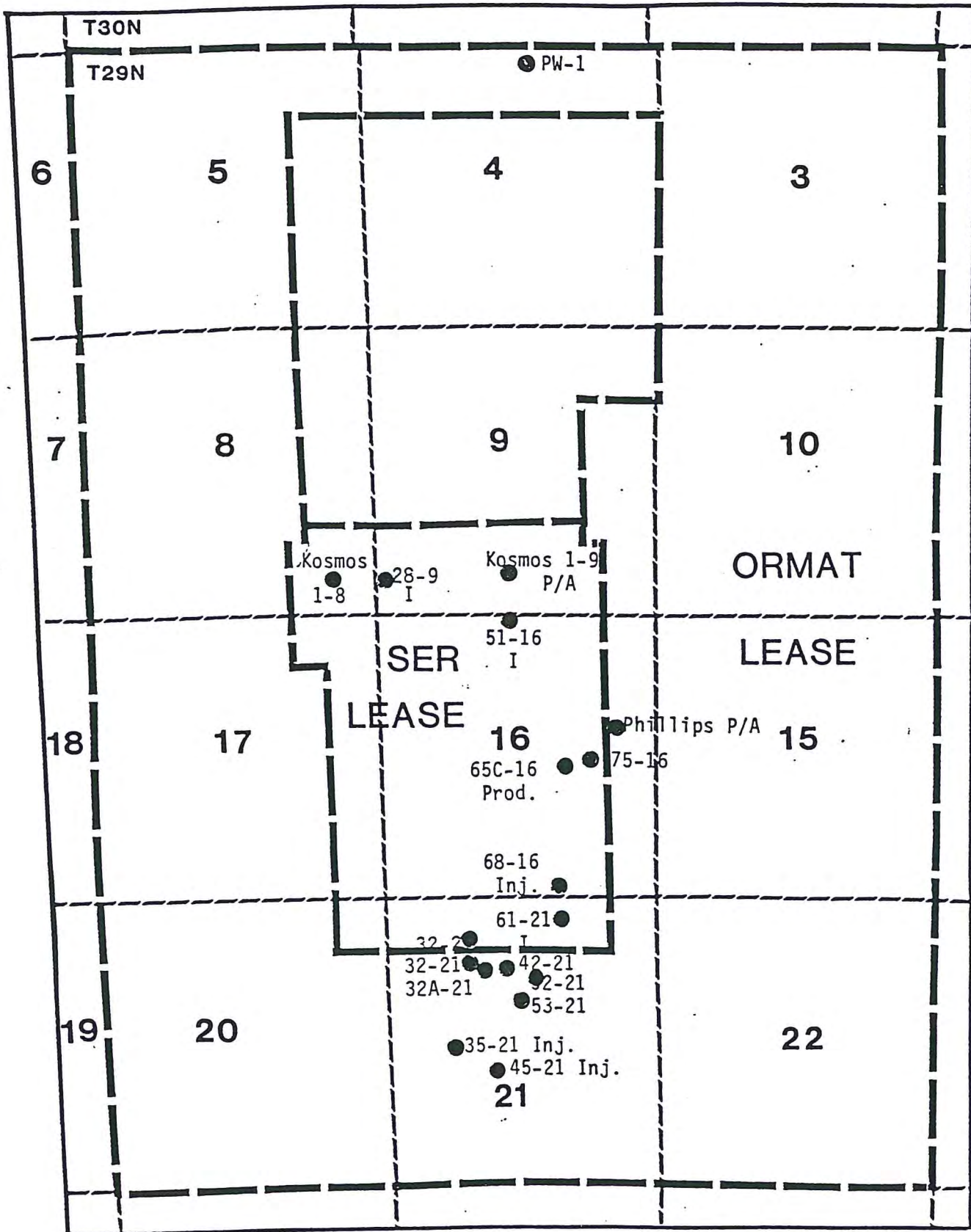
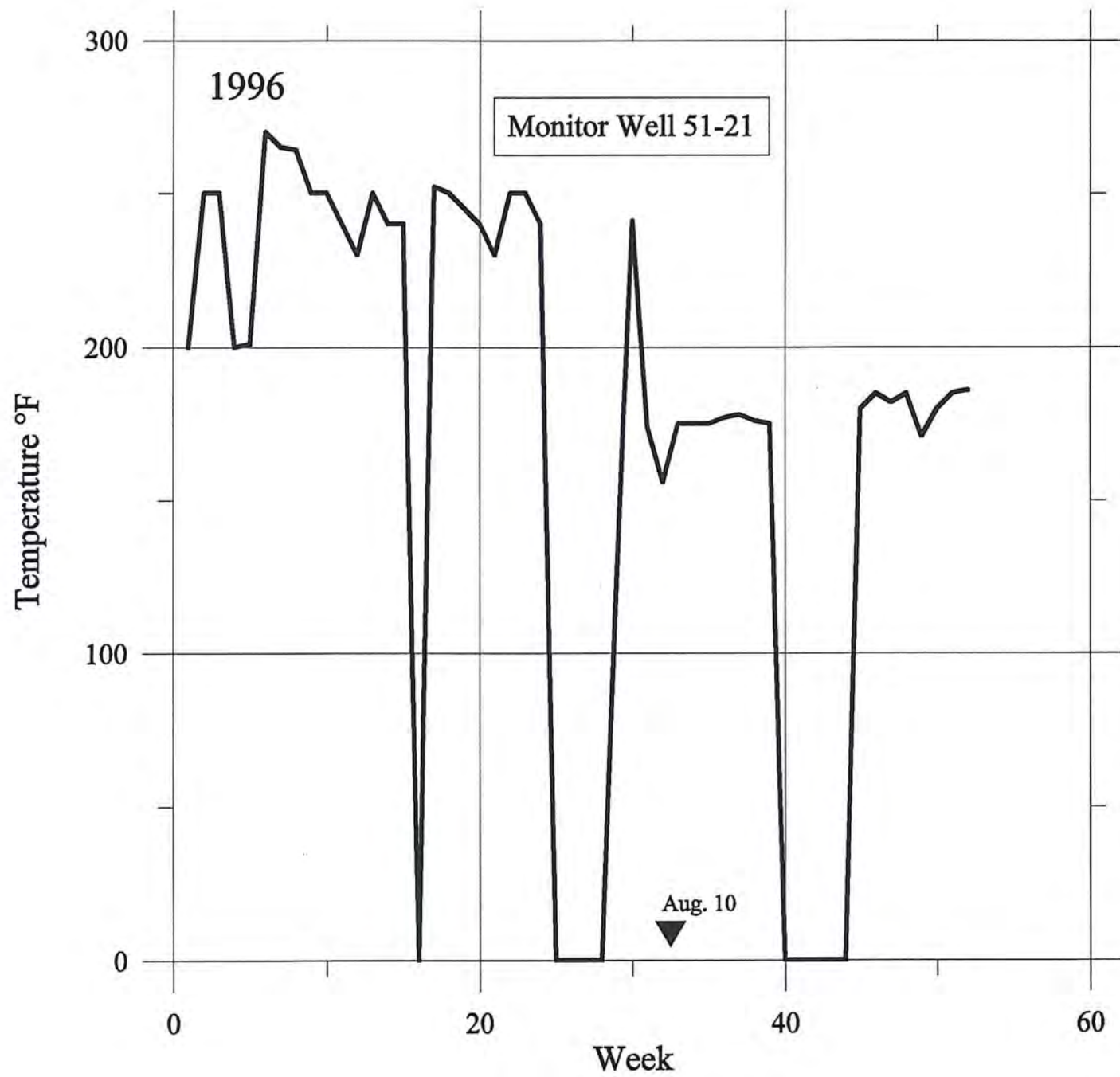
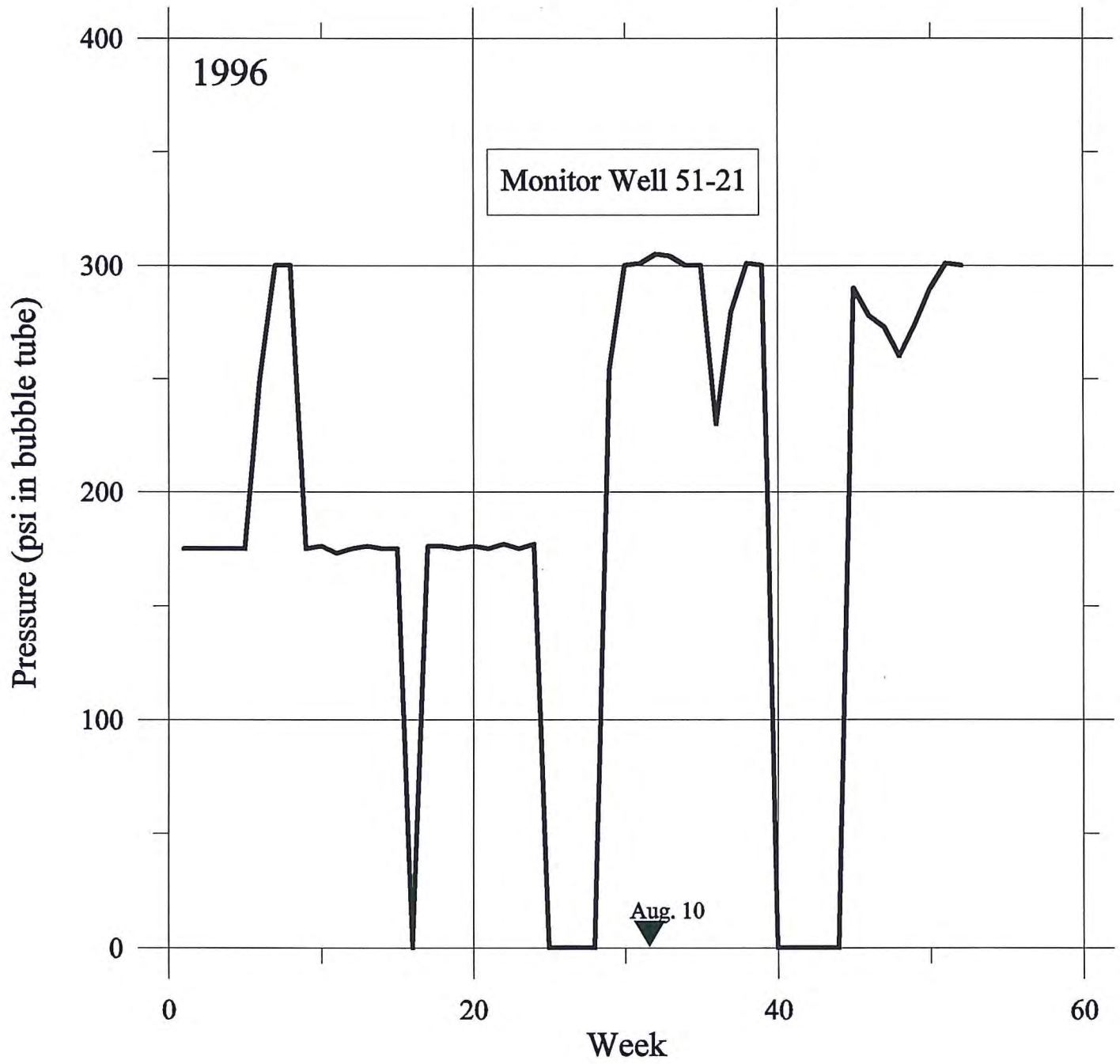


Figure 1. Location of geothermal wells in San Emidio KGRA.  
 Prod.=Production, Inj.=Injection, I=Instrumented.







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55 SEP 12 PM 1:31

129448

**WATER CHEMISTRY ANALYSIS:**

All of the information below must be filled in or the analysis will not be performed.

Attn: Fees may apply to some types of samples.

State NV County WASHOE  
Township 29N Range 23E Section 21  
General Location EMPIRE  
Source Address PRODUCTION 52-21

**TYPE OF ANALYSIS:**

Check here for ROUTINE DOMESTIC ANALYSIS.  
Circle the constituents needed for PARTIAL ANALYSIS.

**SAMPLING INSTRUCTIONS:**

The sample submitted must be representative of the source. Spring and surface water samples should be as free of dirt and debris as possible. Wells should be pumped thoroughly before sampling, changing the water in the casing at least three times. Product water from filters should be sampled after running for about ten (10) minutes.

Sampled by SNIXON Date 9-11-96  
Owner M. STEWART Phone 557-2015  
Address RUDED CREEK RD  
City EMPIRE State NV

**REASON FOR ANALYSIS:**

Loan  
 Personal health reasons  
 Purchase of the property  
 Rental or sale of property  
 Subdivision approval  
 Other PERMITTING MONITORING

**USE OF WATER:**

Domestic drinking water  
 Geothermal  
 Industrial or mining  
 Irrigation  
 Other  
Initials \_\_\_\_\_

**REPORT TO:**

Name EMPIRE FARMS RITA BATES  
Address PO BOX 40  
City EMPIRE  
State NV Zip 89405

**SOURCE OF WATER:**

Filter  Yes  No  
Public  Yes  No  
Spring \_\_\_\_\_  
Well  Depth 300 ft.  
Hot  Cold \_\_\_\_\_  
IN USE  Yes  No

Type PRODUCTION  
Name 52-21  
Surface \_\_\_\_\_  
Casing diameter 20 in.  
Casing depth 98 ft.

CI AIR

The results below are representative only of the sample submitted to this laboratory.

FOR LABORATORY USE ONLY						PRINT OTHER DESIRED CONSTITUENTS BELOW	
Conductivity	Color	Total Hardness	Total Solids	Constituent	Concentration	Constituent	S.U.
833	4086	83.8	83.8	Iron	0.16	Color	17
				Manganese	0.09	Turbidity	2.3
				Copper	0.00	pH	7.91
				Zinc	0.00	EC	7194
				Barium	0.19	SI@20C	0.34
				Boron	6.0		
				Silica	179		

Fee \$100.00 CK# 1229  
Collected by R# 3273  
PWS I.D. \_\_\_\_\_  
SDWA—Pri. \_\_\_\_\_ Sec. \_\_\_\_\_  
1st \_\_\_\_\_ 2nd \_\_\_\_\_ 3rd \_\_\_\_\_  
Date Rec'd 9/12/96 Init. SK  
ppm = parts per million, milligrams per liter  
S.U. = Standard Units

Remarks KR  
9/27/96  
M  
**RESULTS REPORTED**  
**OCT 01 1996**



# WRC Waterlab

Requested by:  
Project: UNLV Div.Earth Sciences

Date submitted: 11-Mar-87  
File name: 12824ES.dat

Lab # Date	Description	H3enr T.U.
12824 10-Mar-87	MS-22	<5
12825 10-Mar-87	MS-24	<5