



REGISTRATION OF EXISTING WELLS

READ INSTRUCTIONS ON BACK OF THIS FORM BEFORE COMPLETING
PRINT OR TYPE - FILE IN DUPLICATE

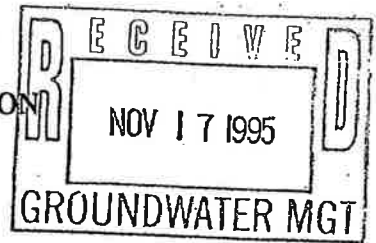
REGISTRATION FEE (CHECK ONE)	
EXEMPT WELL (NO CHARGE)	<input type="checkbox"/>
NON-EXEMPT WELL - \$10.00	<input checked="" type="checkbox"/>

FOR OFFICE USE ONLY	
REGISTRATION NO. 55-600188	
FILE NO. B(16-21) 35 cdd	
FILED 9-18-81 AT 8am	
(DATE)	(TIME)
INA	<input checked="" type="checkbox"/>
AMA	<input checked="" type="checkbox"/>

- Name of Registrant:
Southwest Gas of Arizona Well No. 1
Box 646, Bullhead City, AZ 86430
(Address) (City) (State) (Zip)
 - File and/or Control Number under previous groundwater law: (08-33)
B (16-21) 35- cdd
(File Number) (Control Number)
 - a. The well is located within the SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$, Section 35,
of Township 16N N/S, Range 21W E/W, G & SRB & M, in the
County of Mohave.
b. If in a subdivision: Name of subdivision _____
Lot No. _____, Address _____
 - The principal use(s) of water (Examples: irrigation - stockwater - domestic - municipal - industrial)
PG&E Gas Compressor Station and 4 meters serving 30 people
 - If for irrigation use, number of acres irrigated from well N/A
 - Owner of land on which well is located. If same as Item 1, check this box
Santa Fe Railroad
Winslow, AZ 86047
(Address) (City) (State) (Zip)
 - Well data (If data not available, write N/A)
 - Depth of Well 33'8" feet
 - Diameter of casing 12-1/2 inches
 - Depth of casing N/A feet
 - Type of casing Steel
 - Maximum pump capacity N/A gallons per minute.
 - Depth to water N/A feet below land surface.
 - Date well completed _____
(Month) (Day) (Year) 1962
 - The place(s) of use of water. If same as Item 3, check this box
 $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$, Section _____ Township 8T7N (?) Range 24E
 $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$, Section _____ Township _____ Range _____
- Attach additional sheet if necessary.
9. DATE 9/15/81 SIGNATURE OF REGISTRANT [Signature]

Topock-1

DEPARTMENT OF WATER RESOURCES
GROUNDWATER MANAGEMENT SUPPORT SECTION
500 North Third Street
Phoenix, Arizona 85004-3903
Phone (602) 417-2470 Fax (602) 417-2422



REQUEST FORM TO CHANGE WELL INFORMATION
OWNERSHIP * DRILLER

Please complete the appropriate section of this request form and return to the above address with applicable fee. **NOTE:** A.R.S. §45-593.C requires that the Department be notified of change of well ownership and that the new owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within thirty days after changes take place.

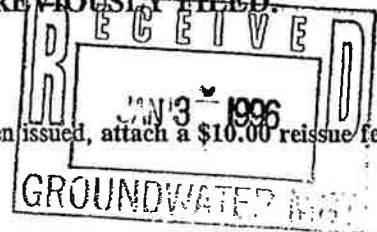
SAVE THIS FORM TO REPORT FUTURE CHANGES IN OWNERSHIP, CHANGES IN ADDRESS, OR CHANGE IN WELL DATA SUCH AS PUMP CAPACITY, CORRECTION OF LEGAL DESCRIPTION, CHANGE OF WELL DRILLER AND AMENDING INFORMATION PREVIOUSLY FILED.

1. CHANGE OF WELL INFORMATION: (NO FEE REQUIRED)

NOTE: If the location of the proposed well changes after drilling authority has been issued, attach a \$10.00 reissue fee for each well.

WELL REGISTRATION NO. 55- N/A FILE NO: _____

If known, I/We request the following well information be changed: _____



2. STATEMENT OF CHANGE OF WELL OWNERSHIP: (\$10.00 FEE REQUIRED)

If this change consists of more than one well and the names are common: attach a \$10.00 fee. Otherwise, each well requires a separate fee of \$10.00.

I, The City of Needles, state that I am the Previous/New Owner of the well described below:

WELL #1 (Topock)

SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 35 Township 16N N/S Range 21W E/W
10 Acre 40 Acre 160 Acre

Well Registration No. 55- 600188

File No. B(16-21) 35 cdd (if known)

Southwest Gas of Arizona
PRINT Previous Owner's Name

City of Needles
PRINT New Owner's Name

P.O. Box 646
Mailing Address

817 Third Street
Mailing Address

Bullhead City, AZ 86430
City State Zip

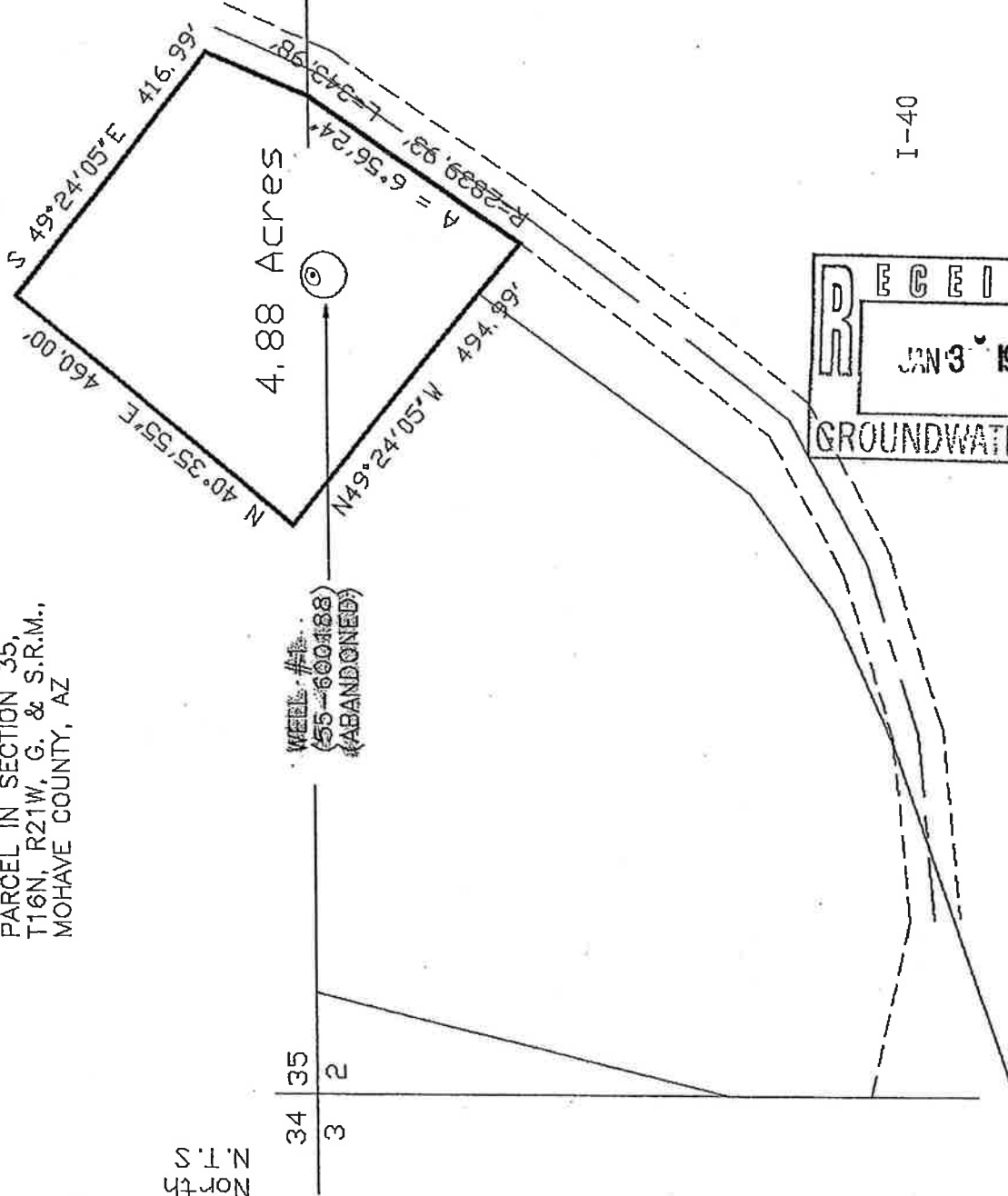
Needles, CA 92363
City State Zip

(520) 754-2263
Telephone

(619) 326-5700
Telephone

Date November 7, 1995 Signature of Previous/New Well Owner

CITY OF NEEDLES WELL No. 1
 PARCEL IN SECTION 35,
 T16N, R21W, G. & S.R.M.,
 MOHAVE COUNTY, AZ



WELL #1
 (55-600188)
 (ABANDONED)

34 35
 3 2

RECEIVED
 NOV 17 1995
 GROUNDWATER MGT

RECEIVED
 JAN 3 1996
 GROUNDWATER MGT

Title	SITE PLAN FOR REGISTERED WELL No. 55-600188		
Date	11/07/95	By	J.W.
File	TOPOCK3.DWG		

11004510
Page 3 of 6

Mohave Engineering Associates, Inc.

Consulting Civil Engineers & Land Surveyors

John A. Proffit, P.E.
PRESIDENT

(602) 753-2627
FAX (602) 753-9118

Robert L. Schuetz, P.E.
Vice Pres., Office Mngr.
Thomas R. Christopher, R.L.S.
Vice Pres., Survey Mngr.

LEGAL DESCRIPTION: WELL SITE NO.1

A Parcel of land being situate in and parts of Lot 1, Section 2, Township 15 North, Range 21 West and Section 35, Township 16 North, Range 21 West of the Gila and Salt River Meridian, Mohave County, Arizona and being more particularly described by metes and bounds as follows;

Commencing at the 1/4 Section Corner common to said Section 2 and said Section 35, which point is marked by a 3" Aluminum Cap, set by the U.S. Fish and Wildlife Service, thence along the line common to said Section 2 and Section 35, S 89°44'18"W, 1504.30 feet to an intersection with and a point in the westerly right of way line of old U.S. Highway 66 and a point in the southerly line of herein described Parcel and the True Point Of Beginning;

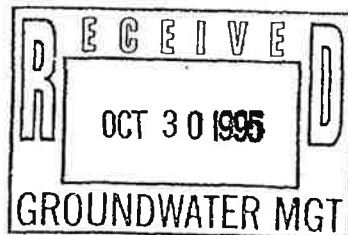
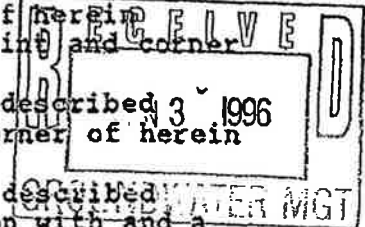
Thence from said True Point Of Beginning and along the northwesterly right-of-way line of said old U.S. Highway 66, and the southeasterly line of herein described Parcel and along the arc of a true curve to the right, having a radius of 2839.93 feet and a back tangent of N 28°44'47"E, and through a central angle of 6°56'24" southwesterly 343.98 feet to a point and corner of herein described Parcel;

Thence leaving the northwesterly right-of-way line of old U.S. Highway 66, and along the southwesterly line of herein described Parcel, N 49°24'05"W, 494.99 feet to a point and corner of herein described Parcel;

Thence along the northwesterly line of herein described Parcel, N 40°35'55"E, 460.00 feet to a point and corner of herein described Parcel;

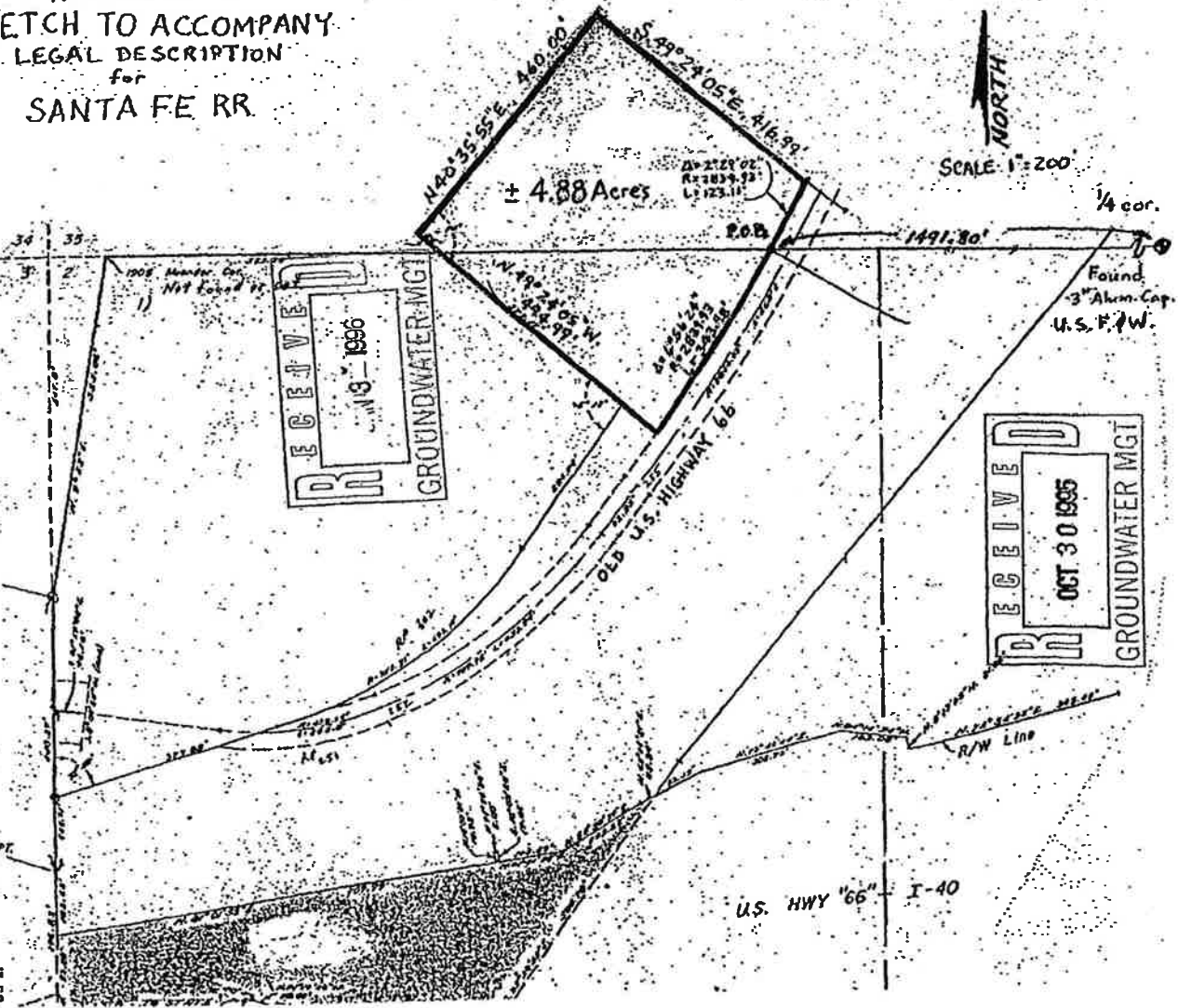
Thence along the northeasterly line of herein described Parcel, S 49°24'05"E, 416.99 feet to an intersection with and a point in the northwesterly right-of-way of said old U.S. Highway 66 and a corner of herein described Parcel;

Thence along the northwesterly right-of-way line of said old U.S. Highway 66, and the southeasterly line of herein described Parcel, and along the arc of a true curve to the right, having a radius of 2839.93 feet and a back tangent of N 26°15'45"E, and through a central angle of 2°29'02", southwesterly 123.11 feet to the True Point Of Beginning, said herein described Parcel containing 4.88 acres, more or less and is conveyed subject to any and all easements, reservations and rights-of-way of record or as may otherwise exist.



"WELL SITE #1"
SKETCH TO ACCOMPANY
LEGAL DESCRIPTION
for
SANTA FE RR.

T16N
T15N



SCALE: 1" = 200'

RECEIVED
NOV 13 1996
GROUNDWATER-MGT

RECEIVED
OCT 30 1995
GROUNDWATER MGT

AUG 15 '95 9:29 FROM ASSET MANA .INT

AZ HWY DEPT.
BRASS CAP

U.S. HWY "66" I-40

R/W Line

WATER QUALITY ANALYSIS - CHEMICAL

SPECIMEN NUMBER		SYSTEM NUMBER		CERTIFICATION NUMBER	
		08-033		0010	
NAME OF CLIENT					
Southwest Gas Co.					
ADDRESS					
Box 646					
CITY		STATE		COUNTY	
Bullhead		Arizona		Mohave	
ZIP CODE		86430			
LAB USE ONLY					
Lab Performing Test		MAILING ADDRESS OF REPORT			
Outside <input checked="" type="checkbox"/> 27		ADDRESS			
		Box 646			
28 <input type="checkbox"/>		CITY		STATE	
		Bullhead		Arizona	
		ZIP CODE			
		86430			
SYSTEM OR SOURCE NAME		CITY		WELL NUMBER	
Well #1		Topock		08-033	
LOCATION OF SAMPLING POINT				WELL NAME	
Well site				#1	
COUNTY		TOWNSHIP		RANGE	
Mohave		Topock			
SECTION		COLLECTED BY			
		Dolan			
LATITUDE		LONGITUDE		STATION NUMBER	
		DATE COLLECTED		HOUR	
		5/16/80		1300	
STORET NUMBER		CONTROL NUMBER		PRESERVATIVE ADDED?	
				<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	

Lab No. 221-0505
Date Received 5-20-80
Time 1:pm S.C.

SPECIMEN UNSATISFACTORY

Reason: _____ CODE _____

SOURCE TYPE (check one)

Well Surface Sewage Industrial Seepage

SOURCE DATA (check each applicable box)

Public System Treated Routine Sample
 Individual System Untreated Re-Sample
 Semi Public System Special
 Grab Sample New Source
 Composite Sample Existing Source

SAMPLER'S COMMENTS: _____

- 10 ROUTINE WATER CHEMISTRY
 11 Electrical Conductivity, mmhos/cm 1.03
 12 pH 7.9

- 13 CATIONS
 14 Calcium
 15 Magnesium
 16 Sodium
 17 Iron
 18 Copper
 19 Manganese
 20 Zinc
 59 Potassium

ME/L	Mg/L
	24
	6
	131
	<.1
	<.02
	<.02
	.06
	6

TOTAL CATIONS

- 21 ANIONS
 22 Alk P (CaCO₃)
 23 Alk MO (CaCO₃)
 24 Chloride
 25 Nitrate (10.0)
 26 Sulfate
 27 Phosphate
 28 Fluorides (1.4-2.4)
 38 Nitrite
 60 Sulfide
 61 Silica

	<1.2
	119.6
	186
	3.3
	63.8
	.5

TOTAL ANIONS

- 29 Solids
 30 Residue
 31 Total Dissolved Solids (Calc.)
 32 Hardness (CaCO₃)
 62 Total Alkalinity as (CaCO₃)
 33 Total Soluble Salts (EC)
 34 V.S.S.
 35 Foaming Agents (MBAS)
 36 B.O.D.
 37 C.O.D.
 39 Kjeldahl Nitrogen Total
 40 Other
 63 Dissolved Oxygen (DO)

Mg/L
514
493
85
98
659

- 41 TRACE METALS (Mg/l)
 42 Arsenic (.05)
 43 Silver (.05)
 44 Chromium (0.05)
 45 Cadmium (0.01)
 46 Lead (0.05)
 47 Selenium (0.01)
 48 Mercury (.002)
 57 Barium (1.0)
 58 Chromium Hexavalent
 50 SPECIAL
 49 Boron
 51 Radiological
 52 Oil and Grease
 53 C.C.E.
 54 Phenols
 55 Pesticides
 56 PHYSICAL

Mg/L
<.02
<.02
<.02
<.005
<.02
<.01
<.001
<.5

- Color
 Taste
 Odor
 Turbidity

Acceptable for Public Usage
 Rejected for Public Usage
 Based on Parameters Run
 Evaluated by M. Mehl
 Bureau of Water Quality Control
 Date 6-11-80

PGS434588

Comments _____

Analyst [Signature]

Date Reported 5-29-80



ARIZONA DEPARTMENT OF HEALTH SERVICES

#1 well

Division of Environmental Health Services

DUCE BABBITT, Governor

JZANNE DANDROY, M.D., M.P.H., Director

Date: 6-23-80

Southwest Gas Co
Box 646
Bullhead AZ 86430

Gentlemen:

RE: Chemical Analysis for addressee

Water System No. 08-033, Collected on 5-16-80

Sample type: Source X, System _____, Unknown _____

The interpretation of the chemical examination of the attached laboratory report No. 22-0505 shows that this sample does not exceed the maximum contaminant levels for inorganic chemicals and therefore is acceptable for use in a public water system in accordance with State regulation R9-8-221. This is not an approval of the referenced public water system, but merely an evaluation of the chemical quality of a sample of water which has been taken from that system.

BUREAU OF WATER QUALITY CONTROL

Safe Drinking Water Unit

by M. Neher

ff
cc: Northern Regional Office

Mohave County Health Department

Facility File

Enclosures

PGS434587

INTER-OFFICE MEMO

WRITE IT - DON'T SAY IT

To: Dennis Wood

Date 7-1-80

Subject: Report # 221-0505

Reply requested

No reply necessary

Here is a copy of the above report.
The water chemical analysis tested OK and
is acceptable for Public Usage.

From

Don't

FORM NO. 126

PGS434586

Tapock #1

HORNKOHL LABORATORIES, Inc.

CHEMICAL AND TESTING ENGINEERS

714 TRUXTON AVENUE

BAKERSFIELD, CALIFORNIA

January 15, 1968

LABORATORY NO. 188804

SAMPLE MARKED

RECEIVED January 11, 1968

Arizona Well #1, 1-5-68.

SUBMITTED BY Pacific Gas and Electric Company
P. O. Box 488
Barstow, California 92311

Purchase Order #L0-893141

Attn: R.W. Horton

DOMESTIC WATER ANALYSIS

CONSTITUENTS	PARTS PER MILLION	GRAINS PER GALLON	CLASSIFICATION
Carbonates (CO ₃)	0.0	0.00	Good
Bicarbonates (HCO ₃)	123.2	7.20	Good
Chlorides (Cl)	256.7	15.01	Fair
Sulfates (SO ₄)	99.8	5.84	Good
Sulfides (S)	0.0	0.00	Good
Ammonia (NH ₃)	Trace	Trace	Good
Nitrites (NO ₂)	0.0	0.00	Good
Nitrates (NO ₃)	10.8	0.63	Good
Calcium (Ca)	36.4	2.13	Good
Magnesium (Mg)	7.8	0.46	Good
Sodium (Na)	204.2	11.94	Good
Iron (Fe)	0.1	0.01	Good
Silica, Si	27.5	1.61	Good
Hardness as CaCO ₃	123.0	7.19	Fair
Total Solids @ 105°C.	708.9	41.46	Fair
pH	7.8		Good
Conductivity Mhos/cm x10 ⁵ @ 25°C.	137.9		Good
Color	Water White		
Odor	None		
Turbidity	Clear		
Fluorides, F	4.0	0.23	Should not exceed 1 ppm.
Manganese, Mn	0.00	---	Good

Theoretical Analysis

Calcium Bicarbonate	147.5	8.63
Magnesium Bicarbonate	14.6	0.85
Magnesium Sulfate	26.5	1.55
Sodium Sulfate	116.5	6.81
Sodium Chloride	423.3	24.75

PGS435942

Remarks: As noted by the classification column, the Chlorides, Fluorides, Hardness and Total Solids are above the recommendations of the State Department of Public Health.

Respectfully submitted,
HORNKOHL LABORATORIES, INC.

Heinz D. Pickel
Heinz D. Pickel, Chief Chemist

P: ap

STATE OF CALIFORNIA, DEPARTMENT OF PUBLIC HEALTH, APPROVED WATER LABORATORY

HORNKOHL LABORATORIES, Inc.

CHEMICAL AND TESTING ENGINEERS

714 TRUXTON AVENUE

BAKERSFIELD, CALIFORNIA

January 15, 1968

Laboratory No. 188806
Sample Water
Received January 11, 1968
Submitted by Pacific Gas and Electric Company
 P. O. Box 488
 Barstow, California 92311
 Attn: R. W. Horton

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC HEALTH
 APPROVED WATER LABORATORY

Purchase Order #LO-893141**BACTERIOLOGICAL EXAMINATION**

DATE AND HOUR COLLECTED: January 5, 1968
COLLECTED BY: R. P. Jacobs
ORIGINAL SOURCE: Well
POINT SAMPLE OBTAINED: Arizona Well #1

	<u>LACTOSE BROTH</u>		<u>BILE BROTH</u>	
	<u>24 HOURS</u>	<u>48 HOURS</u>	<u>24 HOURS</u>	<u>48 HOURS</u>
<u>10 CC. SAMPLES</u>				
No. 1	—	Negative - Negative	—	—
No. 2	—	Negative - Negative	—	—
No. 3	—	Negative - Negative	—	—
No. 4	—	Negative - Negative	—	—
No. 5	—	Negative - Negative	—	—
<u>1 CC. SAMPLE</u>				
No. 1	—	—	—	—
<u>0.1 CC. SAMPLE</u>				
No. 1	—	—	—	—

M.P.N.: Less than 2.2/100 ml.

TOTAL BACTERIA COUNT 7900
 (PLATE COUNT/24 HOURS)

COLOR Water White
ODOR None

TURBIDITY Clear

PGS435945

RESPECTFULLY SUBMITTED,

HORNKOHL LABORATORIES, INC.*Heinz D. Pickel*

Heinz D. Pickel, Chief Chemist

DP: ap

W. V. Miller

Topack #1

HORNKOHL LABORATORIES

CHEMICAL AND TESTING ENGINEERS

714 TRUXTON AVENUE

BAKERSFIELD, CALIFORNIA

January 17, 1957

Marked

Santa Fe Well #1
Topack PG&E Comp Station

Laboratory No. 93355

Sample Water

Received January 14, 1957

Submitted by The Pacific Gas and Electric Company
Box 3246
H Street Annex
Bakersfield, California

#1

COMPLETE INDUSTRIAL WATER ANALYSIS

<u>Constituents</u>	<u>Parts Per Million</u>	<u>Grains Per Gallon</u>
Carbonates	0.0	0.00
Bicarbonates	115.9	6.78
Chlorides	200.0	11.70
Sulfates	84.5	4.94
Sulfides	0.0	0.00
Calcium	31.2	1.82
Magnesium	4.9	0.29
Sodium	168.8	9.87
Iron	0.1	
Hardness as CaCO ₃	98.0	5.73
Total Solids @ 105°C:	545.0	31.87
Total Solids @ Red Heat	505.0	29.53
pH: 7.3		
Color: Water White		
Odor: None		
Turbidity: Clear		
Conductivity: Mhos/cm ³ x10 ⁵ @25°C: 87.2		

THEORETICAL ANALYSIS

PGS435943

Calcium Bicarbonate	126.4	7.39
Magnesium Bicarbonate	24.9	1.46
Magnesium Sulfate	3.6	0.21
Sodium Sulfate	120.7	7.06
Sodium Chloride	329.7	19.28

Respectfully submitted,

HORNKOHL LABORATORIES

Franklin

mk

HORNKOHL LABORATORIES

CHEMICAL AND TESTING ENGINEERS

714 TRUXTON AVENUE

BAKERSFIELD, CALIFORNIA

January 24, 1957
Marked

See Below

Laboratory No. 98854 - 98855

Sample Water

Received January 14, 1957

Submitted by - Pacific Gas and Electric Company
Box 3246
H Street Annex
Bakersfield, California

SILICA CONTENT

		<u>Parts Per Million</u>	<u>Grains Per Gallon</u>
Colorado River Water			
Topach PG&E Comp. Station	----	59.2	3.46
Santa Fe Well #1			
Topach PG&E Comp. Station	----	29.6	1.73

Respectfully submitted,
HORNKOHL LABORATORIES

Chief Chemist

mk

PGS435944