

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

Job No. 120154
June 11, 1975

Chevron Oil Company
Minerals Staff
225 Bush Street
San Francisco, California 94104

Attention: Roger J. Allmendinger

Analysis of 13 Water Samples

1-29
20N 28E 29DBD

Item	Sample No.		Li (mg/l)	Na (mg/l)	K (mg/l)	Mg (mg/l)	Ca (mg/l)	Al (mg/l)	Mn (mg/l)
1.	SL1-3	Acid	2.8	1,710.	170	21.	355.	*	*
2.	4	Acid	3.0	1,570.	220	20.	210.	*	*
3.	5	Acid	3.0	1,550.	180	8.9	94.	15.	.51
4.	6	Acid	2.9	1,490.	160	10.	100.	*	*
5.	7	Acid	2.8	1,420.	160	7.5	98.	*	*
6.	8	Acid	3.0	1,500.	150	9.2	110.	*	*
7.	9	Acid	2.9	1,430.	140	12.	115.	*	*
8.	SL1-10	Acid	2.9	1,400.	130	17.	130.	25.	1.1
9.	SL2-1	Acid	2.9	1,380.	140	1.8	105.	*	*
10.	2	Acid	2.9	1,350.	130	1.5	100.	*	*
11.	3	Acid	2.8	1,330.	140.	1.1	100.	*	*
12.	SL2-4	Acid	2.8	1,340.	140.	.90	98.	2.0	.09
13.	SL2-H ₂ O		*	1.0	<.1	*	.14	*	*

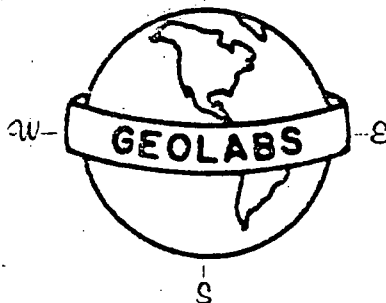
Item	Sample No.		Cu (mg/l)	Pb (mg/l)	Zn (mg/l)	Fe (mg/l)	U (ppb)	Hg (mg/l)
1.	SL1-5	Acid	.012	<.02	.10	26.	3	<.005
2.	SL1-10	Acid	.014	.02	.16	50.	<2	<.005
3.	SL2-4	Acid	.13	.30	.70	1.0	<2	<.005

Item	Sample No.	As (mg/l)	B (mg/l)	SO ₄ (mg/l)	F (mg/l)	Cl (mg/l)	CO ₃ (mg/l)
1.	SL1-3 Raw	.12	11.	200.	2.0	2,120.	86
2.	4 Raw	.10	12.	40.	2.0	1,900.	36
3.	5 Raw	<.05	12.	20.	2.0	1,990.	32
4.	6 Raw	.07	12.	20.	2.0	2,040.	34
5.	7 Raw	<.05	11.	20.	2.0	1,975.	22
6.	8 Raw	<.05	12.	10.	2.0	1,975.	30
7.	9 Raw	<.05	11.	20.	.19	1,860.	28
8.	SL1-10 Raw	.12	11.	50.	.18	2,130.	30
9.	SL2-1 Raw	.10	11.	10.	.15	1,960.	<2
10.	2 Raw	.05	11.	10.	.15	1,790.	<2
11.	3 Raw	<.05	11.	10.	.16	2,150.	<2
12.	SL2-4 Raw	<.05	12.	10.	.16	1,990.	10
13.	SL2-H ₂ O	*	*	<2.	*	<1.0	*

Item	Sample No.	HCO ₃ (mg/l)	T.D.S. by Evaporation (mg/l)	pH	Specific Conductivity (micromhos/cm)
1.	SL1-3 Raw	225.	6,540.	9.3	6,820
2.	4 Raw	130.	5,250.	9.0	6,780
3.	5 Raw	100.	4,810.	8.9	6,450
4.	6 Raw	86.	4,950.	8.9	6,570
5.	7 Raw	130.	4,220.	8.7	6,330
6.	8 Raw	80.	4,770.	8.8	6,710
7.	9 Raw	78.	4,160.	8.8	6,620
8.	SL1-10 Raw	105.	4,480.	8.8	6,460
9.	SL2-1 Raw	130.	4,380.	7.8	6,510
10.	2 Raw	130.	4,510.	8.2	6,520
11.	3 Raw	130.	3,610.	8.1	6,270
12.	SL2-4 Raw	105.	4,310.	8.4	6,390
13.	SL2-H ₂ O	2.	*	*	*

GEOLABS
 1160 Simons Street
 Lakewood, Colorado
 Phone (303) 237-5122

Mailing Address:
 P.O. Box 702
 Edgemont Branch
 Golden, Colo. 80401



June 13, 1975
 Job: 5-989

RJA

A DIVISION OF
 NATURAL RESOURCES LABORATORY, INC.

MINERALS STAFF

JUN 30 1975

File Soda Lake 29.

Mr. Roger F. Allmendinger
 Chevron Oil Company
 225 Bush St.
 San Francisco, California 94104

REPORT OF ANALYSES

All analyses reported in mg/l.

<u>Sample</u>	<u>F⁻</u>	<u>Cl⁻</u>	<u>CO₃⁼</u>	<u>HCO₃⁻</u>	<u>SO₄⁼</u>	<u>SiO₂*</u>	<u>TDS**</u>
SL1-5	1.9	2550	22	150	160	31.6	5220
SL1-10	1.9	2350	25	135	120	30.8	4900
SL2-3	1.4	2500	N.D.	150	120	138	4700
SL2-5	1.4	2480	N.D.	155	120	28.7	4700
SL2-6	1.7	2580	13	115	120	29.4	4670
SL2-7	1.6	2950	N.D.	105	110	30.1	4740

<u>Sample</u>	<u>pH</u>	<u>K, umho/cm</u>	<u>U</u>	<u>Na</u>	<u>K</u>	<u>Ca</u>	<u>Mg</u>	<u>Li</u>
SL1-5	8.6	8000	-	1600	160	75	8	2.6
SL1-10	8.6	7490	<0.002	1520	160	86	10	2.6
SL2-3	8.0	7490	-	1480	160	97	1	2.6
SL2-5	8.2	7460	<0.002	1480	150	96	1	2.6
SL2-6	8.4	7700	<0.002	1500	160	95	<1	2.6
SL2-7	8.4	7800	-	1520	160	86	1	2.6

<u>Sample</u>	<u>B</u>	<u>As</u>	<u>Al</u>	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Fe</u>	<u>Mn</u>	<u>Hg</u>
SL1-5	10.0	0.05	-	-	-	-	-	-	-
SL1-10	10.0	0.05	24.	0.020	<0.5	0.20	70	1.7	<0.0001
SL2-3	10.0	0.05	-	-	-	-	-	-	-
SL2-5	10.0	0.05	0.40	0.075	0.15	0.25	0.95	0.2	0.0001
SL2-6	10.0	0.05	0.40	0.050	0.12	0.24	0.60	<0.1	0.0001
SL2-7	10.0	0.05	-	-	-	-	-	-	-

*SiO₂ analyses on diluted sample as provided; no diluted sample available for SL2-3 and analysis on raw sample.

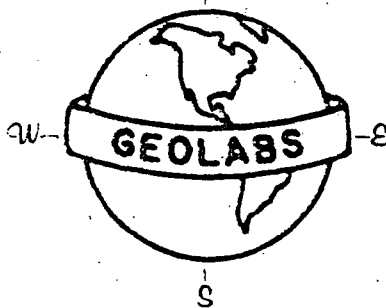
**TDS - Total dissolved solids.

N.D. - not detectable by definition (pH < 8.3)

ANALYTICAL SERVICES AND RESEARCH

GEOLABS
1100 Simms Street
Lakewood, Colorado
Phone (303) 237-5122

Mailing Address:
P.O. Box 702
Edgemont Branch
Golden, Colo. 80401



June 13, 1975
Job: 5-989
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NATURAL RESOURCES LABORATORY, INC.

Cu, Pb, Zn run by AA-chelation/extraction due to interference in direct aspiration from high alkalis. Sample SL1-10 reported to <0.5 mg/l Pb due to interference from High Fe. High Fe, Al on this sample may be due to acid leaching of sediment in the sample.

Ronald L. Keil

ANALYTICAL SERVICES AND RESEARCH

Item	Sample No.	SiO ₂ (mg/l)
1.	SL1-3 Raw	190.
2.	4 Raw	195.
3.	5 Dil	60.
4.	6 Raw	240.
5.	7 Dil	30.
6.	8 Raw	205.
7.	9 Dil	48.
8.	SL1-10 Dil	45.
9.	SL2-1 Raw	220.
10.	2 Raw	205.
11.	3 Dil	30.
12.	SL2-4 Dil	30.
13.	SL2-H ₂ O	<.5

* Analysis not requested.

Note:

H₂O = Distilled water, Acid = Acidified sample, Dil = Diluted sample

Charles E. Thompson
Chief Chemist

**Completion Report
New Well PRO-318**

Field Beowawe [?]
 Well No. Soda Lake 1-29
 Location 777.8'N, 777.8'W, SE Cor Sect 29 (Final) Churchill Co. Nevada
 Elevation 3990' (Est) Darrick Floor D.F. is _____' above mat.
 Date 11-9-78

Chevron Resources Company

B. D. Garrett/ R. B. Murray
 (For Operations Manager, Producing Dept.)

Drilled By Hunnicut & Camp Rig #4
 Date Commenced Drilling December 11, 1974 Date Completed Drilling December 30, 1974
 Date of Initial Production -----

Production:	Daily Average, 1st _____ Days	Gravity _____ °API	Pump _____
	Oil _____ Bbls.	T.P. _____ PSI	Flowing _____
	Water _____ Bbls.	C.P. _____ PSI	Gas Lift _____
	Gas _____ Mcf.	Bean _____ /64"	

Summary

Total Depth: 4306'
 Casing : 40' (Below G. L.) 20" S. O. W. casing
 1008' 13 3/8" x 68# K-55 Buttress
 Tubing : 4267' (141 JTS) 2 3/8" Used Tubing
 Logs : DIL, BHC, FDC, CNL, Dipmeter, Temperature Surveys

SODA LAKE 1-29

Hunnicutt & Camp Rig #4

- 12-11-74 Prepared site, spudded in and drilled 17½" 40' to 255' through 40' of 20" conductor pipe.
- 12-12-74 Drilled ahead 17½" to 954'. Lost partial circulation. Drilled ahead 17½" to 984' with partial circulation - ran out of mud. POOH.
- 12-13-74 Mixed 100 bbl mud. RIH to 500' - regained circulation. RIH to 984'. Drilled ahead 17½" to 1025' with no mud loss. Circulated hole clean. Ran Schlumberger temperature survey. Spotted thick gel pill on bottom. POOH. Ran Schlumberger IES log 1025' to surface. Ran 1019' of 13 3/8" x 68# K-55 casing. Casing stopped at 982'. Circulated and worked casing to 992'. Lost circulation. Mixed mud with LCM.
- 12-14-74 Could not regain circulation. POOH and layed down 13 3/8" casing. RIH with 17½" bit to 1025' with partial circulation. POOH. RIH with open end 4½" drill pipe to 1011'. Halliburton equalized 100 sx neat cement treated with 3% CaCl₂ and 10 sx LCM. Cement in place 12:15. POOH. RIH w/ 17½" bit. Located cement at 1009'. Cleaned out cement to 1022'. Circulated to condition hole.
- 12-15-74 POOH. Rigged up and ran 1019' of 13 3/8" x 68# K-55 casing. Stopped at 984', installed casing head. Pumped and worked casing to 1008'. Halliburton equipment cemented casing at 1008' with 255 cu. ft. 1 to 1 Pozzalin and 35% silica flour, followed by 200 cu ft neat cement with 35% silica flour. Partial cement returns. Cemented outside casing with 80 sx neat cement plus 3% CaCl₂. Landed casing and installed class III BOPE.

Casing Detail

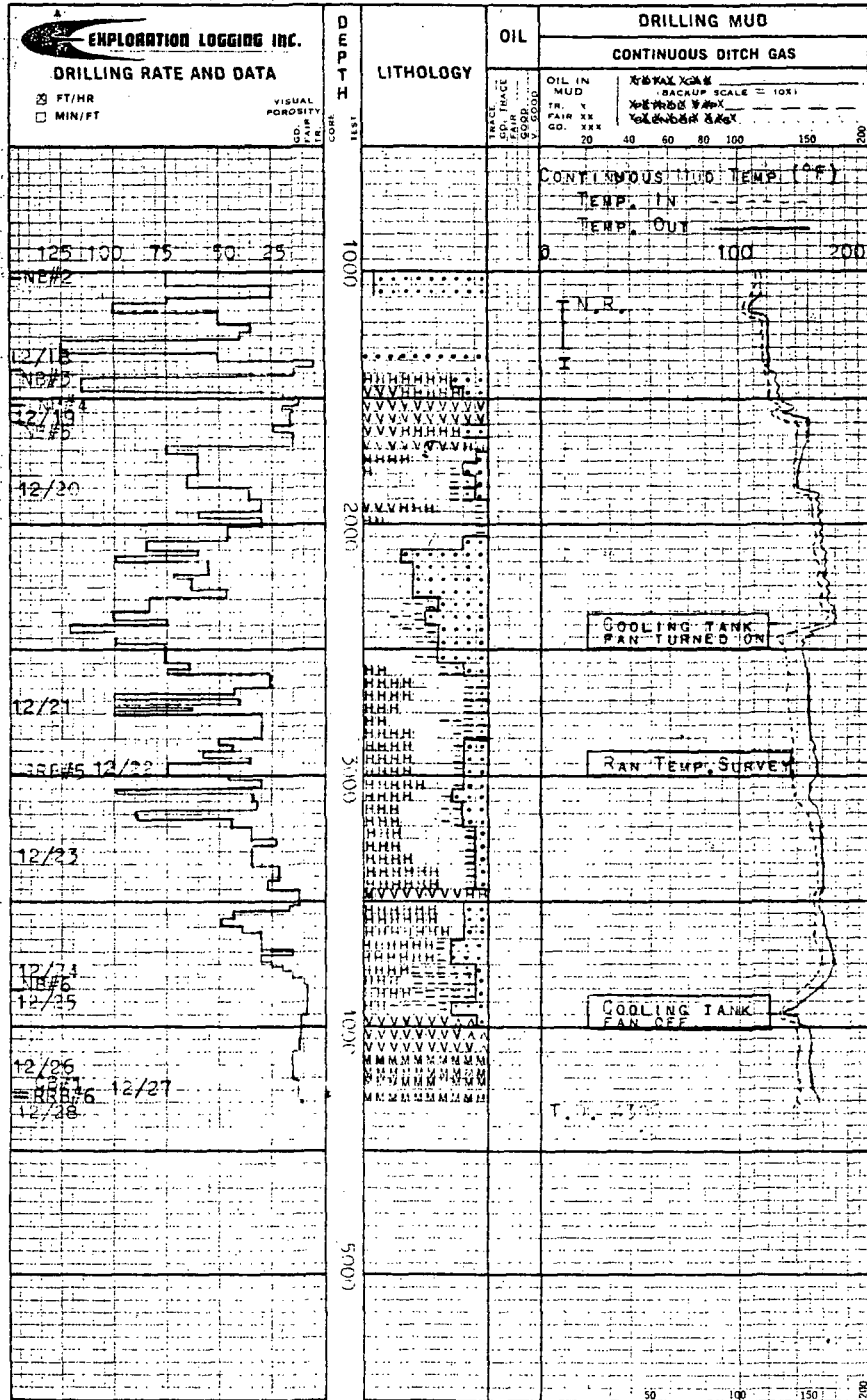
1008' of 13 3/8 x 68# K-55 Buttress casing of unk. mfg. with Baker guide shoe, Baker float at 984', KK-6 turbine centralizers on bottom. 3 joints and every third joint to surface

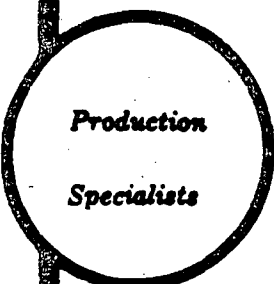
- 12-16-74 Tested BOPE to 2000 PSI. RIH with 11" bit to 964'. Plugged jets in bit. POOH, cleaned jets. RIH to 964'. Drilled out float collar, cement and casing shoe to 1008'. Drilled ahead 11" to 1100'. Lost circulation. Mixed gel mud. Drilled ahead 11" to 1110" with no returns. Spotted gel pill on bottom. POOH to 1000'.
- 12-17-74 RIH to TD. Top of mud at 85'. Pumped in 100 bbls of gel mud. No returns to surface. Top of fluid at 85'. Mix 200 bbls gel mud with 20% LCM. Regained partial circulation. Drilled ahead with partial circulation to 1140'. Plugged jets with LCM. Tripped hole to clear

- 12-17-74 jets. Drilled ahead 11" to 1350' with partial circulation.
cont. Drilled ahead 11" to 1377 with 75% returns.
- 12-18,19,20 Drilled ahead 11" to 2900'.
- 12-21-74 Drilled ahead 11" to 2994'. Ran temperature survey @ 2970'.
Parted wire line. POH. Retrieved instrument. RIH & stuck bit
at 1391', worked it free. Reamed tight hole 1391' to 1420'.
- 12-22,23-74 Continued reaming to 1776'. RIH to 1816' reamed hole. RIH to
2994'. Drilled ahead 11" to 3838'.
- 12-24-74 Drilled ahead 11" to 3847'. Tripped to change bits. Reamed
tight hole 1835' - 1870'. Drilled ahead 11" to 3958'.
- 12-25-74 Drilled ahead 11" to 4248'.
- 12-26-74 Drilled ahead 11" to 4274'. Circulated hole clean for 10 hr
temperature survey. Rigged up and ran 8 3/4" x 30' Mercury
Christiansen Core Bbl.
- 12-27-74 Cored 4274' to 4288' POOH. RIH and opened hole to 11" to 4288'.
Drilled ahead 11" to 4306'. Circulated hole clean. POOH to run
E logs.
- 12-28-74 Rigged up Schlumberger and ran DIL, BHC, FDC & CNL logs and dipmeter.
Rigged down Schlumberger.
- 12-29-74 Circulated hole clean. POOH and layed down drill pipe. Picked up
and ran 141 joints (4267') used 2 3/8" tubing. Landed tubing
in 12"-3000# casing head. Bottom of tubing at 4281'. Rabbitted
tubing, removed BOPE.
- 12-30-74 Installed 3" gate valve on top of doughnut. Installed bullplugs in
valves on casing head. Rigged down and released.
- 12-31-78 Cleared site
- 1-1-75 Holiday
- 1-2 to 10 Cleared site, pumped out & back filled sump.
- 1-10-75 Ran Agnew & Sweet temp survey 4280' to surface.

Suspended all Operations

CHEVRON OIL COMPANY;
 "SODA LAKE" No. 1-29;
 CHURCHILL COUNTY, NEVADA





AGNEW AND SWE' T
 3914 GILMORE AVENUE
 BAKERSFIELD, CALIFORNIA
 93308

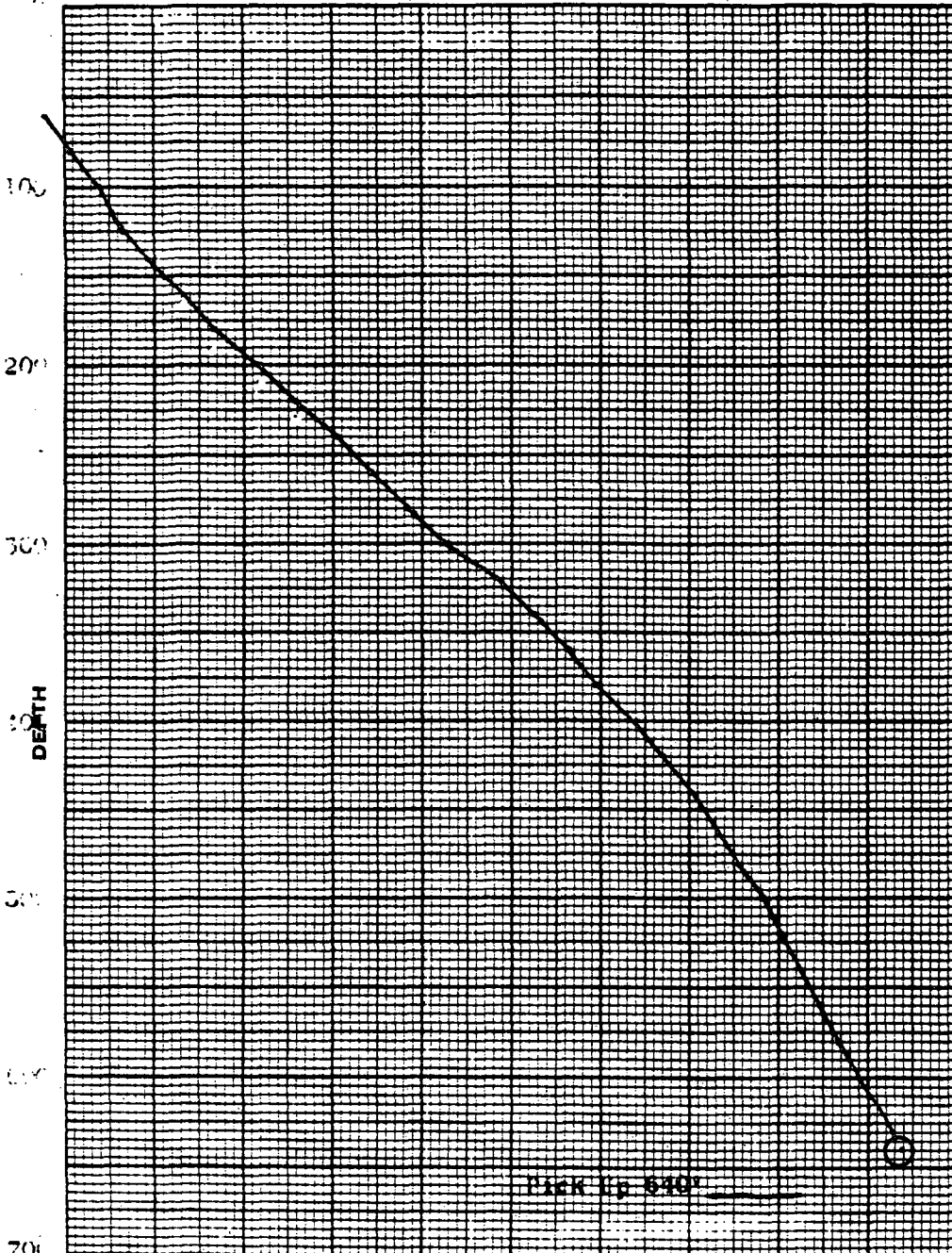
24 HOUR PHONE 327-2267
 AREA CODE 805

SUBSURFACE TEMPERATURE SURVEY

*Well # 1-29
 No. 1
 Soda Lake*

OWNER CHEVRON OIL COMPANY FIELD Soda Lake WELL NAME 1-29
 CASING ELEV. DATE May 30, 1975
 LINER DESCRIPTION: ZERO POINT 12'
 DEPTH 990' - plus
 ZONE _____
 TUBING DETAIL: 2-3/8" @ 945' INSTRUMENT 90 - 660 * FAH
 SERIAL NO. 10008
 PUMP SHOE GAS ANCHOR INTAKE _____
 PURPOSE Static Temperature Survey - Traverse 20'/min. MAX. TEMP. 287.0 °F @ 640'
 REMARKS: _____

140 160 180 200 220 240 260 280 300
 TEMPERATURE



STABILIZATION PERIOD _____
 GROSS OIL RATE B/D _____
 NET OIL RATE B/D _____
 FORMATION GAS MCF/D _____
 GOR CFT/BBL _____
 CIRCULATED GAS MCF/D _____
 OIL DRY GRAVITY °API _____

PRESSURES	OBS	COR
CASING, PSIG	0	0
TUBING, PSIG	0	0

DEPTH	TEMP.	DEPTH	TEMP.
0		340	205.8
20		360	212.5
40		380	218.8
60	97.4	400	227.5
80	101.8	420	234.0
100	107.1	440	240.2
120	112.0	460	245.5
140	118.5	480	250.8
160	126.0	500	256.7
180	132.5	520	260.7
200	143.9	540	265.0
220	151.4	560	269.1
240	160.6	580	273.7
260	168.6	600	278.0
280	176.1	620	283.1
300	184.7	640	287.0
320	196.2		

Time on bottom 7:03 pm
 Time off bottom 7:04 pm

PACK TO 640'

BY: Fruett & Morrill

TEMPERATURE BUILD UP DATA

DRILLED DEPTH 4274'; DRILL RATE (FT./HR.) 14 1/2 hr (LAST 80' DRILLED).

TIME REACHED DRILLED DEPTH 10:23 ^{OF}; TIME SINCE LAST CIRCULATION 12:05 PM.

TYPE TEMP. SURVEY: Inside Drill pipe; MUD TEMP. 135°F IN 156°F OUT; DATE: 12/26/74.

Cumulative time since Last circulation	TEMPERATURE RUN											
	40	89	136	195	316	360	408	455	499	550		
	1	2	3	4	5	6	7	8	9	10	11	12
TIME TEMP. TOOL REACHED BOTTOM	12:25	1:14	2:01	3:00	5:00	5:45	6:30	7:17	8:03	8:51		
TIME TEMP. TOOL ON BOTTOM	12:27	20	20	20	21	20	23	23	21	24		
TIME PULL OFF BOTTOM	12:45	1:34	2:21	3:20	5:21	6:05	6:53	7:40	8:24	9:15		
TEMP. READINGS:												
THERMOMETER # 774	164	171	186	191	211	215	221	226	233	238		
THERMOMETER # 777	164	171	180	191	212	216	224	227	234	238		
THERMOMETER # 784	162	171	181	191	212	216	222	228	234	238		
DEPTH OF THERMOMETERS <u>4220'</u>												

REMARKS: Reached 4220' at 4 AM.

4
15
3
114

TEMPERATURE BUILD UP DATA

DRILLED DEPTH 2994; DRILL RATE (FT./HR.) 70'/hr. (LAST 80' DRILLED).

TIME REACHED DRILLED DEPTH 8:40 AM; TIME ^{OF} ~~SINCE~~ LAST CIRCULATION 11:07.

TYPE TEMP. SURVEY: Inside drill pipe; MUD TEMP. 144°F IN 157°F OUT; DATE: 12/21/74.

Cumulative time since Circulation	TEMPERATURE RUN											
	38 1	80 2	118 3	159 4	201 5	241 6	282 X 7	320 ^{**} 8	9	10	11	12
TIME TEMP. TOOL REACHED BOTTOM	11:24	12:07	12:45	13:26	14:08	14:48	15:27	16:07	16:47			
TIME TEMP. TOOL ON BOTTOM	21 0	20	20	20	20	20	22	20				
Time Pull off BOTTOM	11:45	12:27	13:05	13:46	14:28	15:08	15:49	16:27				
TEMP. READINGS: °F												
THERMOMETER # <u>774</u>	166	173	181	187	196	203	209	216				
THERMOMETER # <u>777</u>	167	174	180	189	197	203	210	216				
THERMOMETER # <u>784</u>	167	174	181	189	197	203	210	216				
DEPTH OF THERMOMETERS <u>2974</u>												

REMARKS: Pipe worked ~ 3' both when sub pulled off bottom and also after thermometers have surfaced.

* After Run #7 pipe worked since ~ 20'

** Wire broke when pull out of hole

805 AM Drilled passed 2974'

Soda Lake 1-29
Summary of Production Test 5-20-75 thru 5-25-75

Well File

*Wanda
Soda Lake
1-29*

5/20/75 Moved in unit and rigged up. Filled hole with approximately 2-3 bbl.

5/21/75 Pulled 2-3/8" tubing to 1700' and attempted to circulate. Hole remained full but returns could not be attained.

7/3/75

Pulled to 1160' and circulated out \pm 20 bbl. of thick mud, then \pm 40 bbl. blackish water with temp. of 118°F and salinity of 7500 ppm. At this time circulation was lost and hole would not stand full. Spotted 40 bbl. thick gel pill @ 1160 and pulled tubing.

Ran 11" bit to 1008 - unable to fill hole with 50 bbl. gel mud. Ran bit to 1700' and pulled out of hole.

Ran open end tubing to 1694' and equalized 95 sx Class "G" cement treated with .2#/Sk HR-7. No circulation; C.I.P. 10:30 PM.

5/22/75 Located top of cement at 1531 and spotted 30 bbl. fresh water.

Ran Halliburton RTTS packer and set at 958'. Filled annulus with mud.

Conducted 18 $\frac{1}{4}$ hour test. See attached report Test #1.

5/23/75 Pulled tester, pumped in 50 bbl. mud and 50 bbl. water to cool hole.

Attempted to run Welex sidewall sample gun which stopped at 1067'. Could not work sampler below 1067.

Ran 13-3/8" Baker Model "N" cast iron bridge plug on wire line and set at 991'.

Using Welex Super Dynajet DP charges, perforated 2 $\frac{1}{2}$ " holes per foot 791 to 980' (189').

5/24/75 Ran Halliburton RTTS packer and set at 744'. Filled annulus with water.

Conducted 13 $\frac{1}{2}$ hour test. See attached report Test #2.

5/25/75 Landed 2-3/8" open end tubing at 945'. Release rig.

B. D. GARRETT

B.D.G.

Copy sent to Paul English (Phillips) 7/3/75

B

Soda Lake 1-29
Test #1 5/22/75

T.D. 4306 Plug 1531
Csg. 13-3/8 @ 1008

Test interval 1008-1531 (523')
Packer set at 958'
Pressure recorders @ 973'
Max. reading thermometers @ 973'
Rat hole volume (below packer) 83 bbl.

With the packer set at 958, Nowsco 1" tubing was run to 800'. Nitrogen lift started at 4:45 PM (5/22/75) at 100 cfm and fluid surfaced at 4:55 (10 min.)

The well was produced for 756 minutes (12 hours-36 minutes) and shut in for 336 minutes (5 hours-36 minutes).

Production was gaged in a 350[±] bbl. tank at 15-30 minute intervals. Wave action in the tank made individual gages very erratic. Gages ranged from 220 B/D to 1250 B/D with an overall average of 577 bbls. A total of 300 bbls. was brought to the surface including 83 bbl. of rat hole fluid.

The well was allowed to flow without nitrogen lift on two occasions while pressure samples were taken. The flowing rate was [±] 220 B/D but with the down hole cooling that was taking place the well would have died in a very few minutes.

The four maximum reading thermometers gave erratic data as follows:

<u>Range</u>	<u>Reading</u>
100-500°F	365°F
200-400	325
60-300	over range
100-500	351

Since prior temperature surveys indicate a temperature of 320[±] °F this data appears incorrect.

One of the two pressure recorders stopped about the middle of the test; the other functioned properly and the readings are attached.

The pressures indicated by the recorder do not reflect differences of flow rate or shut in - in fact, the shut in pressure is less than the flowing pressure. It appears that the pressure changes were too small for the recorder to resolve.

B. D. GARRETT

Soda Lake 1-29
Test #2 5/24/75

T.D. 4306 Plugs 1531 and 991
Csg. 13-3/8 @ 1008
Perforations: 2/ft. 791-980 (189')

Test interval 791-980
Packer set at 744
Pressure recorders at 760'
Max. reading thermometers at 760'
Rat hole volume (below packer) 37 bbl.

With the packer set at 744', Newsco 1" tubing was run to 700'. Nitrogen lift was started at 3:53 AM (5/24/75) at 100 cfm and fluid surfaced at 3:57 (4 minutes).

The well was produced for 457 minutes (7 hours-37 minutes) and shut in for 345 minutes (5 hours-45 minutes).

Production was gaged as in Test #1 at rates ranging from 586 to 1380~~1/2~~ A total of 307 bbl. was brought to the surface, including 37 bbl. of rat hole fluid. (See attached detail). The well would not flow without nitrogen lift.

The four maximum reading thermometers were read as follows: 312, 315, 320, 322°F.

Neither of the two pressure recorders functioned - I believe this was due to operator error when the recorders were installed.

B. D. GARRETT

JODA LAKE 1-29 PROTECT #1 5/22/75

REAL TIME	ELAPSED TIME	NOWSCO TUBE DEPTH FT	N ₂ RATE CFM	BRINE RATE B/D	CUM. PROD. BBL	BOTTOM HOLE PRESS (973') PSI	SURFACE TEMP °K
INITIAL HYDROSTATIC	- 95					385.35	
	- 11					380.71	
START N ₂ INJECTION	0	800	100			502.30	
	3					369.67	
	46			75 @ 35 MIN		369.55	
5:54	69			459	20		
6:05	80		100	501	24		
	84					370.18	240
6:12	87			685	27		250
	91	947		213	30		
6:29	104	NO SC		636	36		252
	113	TUBE STOPPED		766	41		
	121	ON SUR ABOVE				370.07	257
6:57	132	PACKER - LOOSE	150	944	53		258
	150	NAT WORK		892	59		259
	158	DRAPER				370.69	
	165			827	73		260
	182			649	80		
	196					371.31	
	215			837	100		265
	233					371.93	
FROM 9:10 - 10:42 N ₂ WAS SHUT OFF TO LET WELL FLOW & TAKE PRESSURE SAMPLE W/O N ₂ FLOW RATE ± 220 B/D	265			772	126		269
9:10	270		0	220		373.29	
	308		1			373.18	238
	346		150			373.18	
	383					373.18	
11:30	405			689	164		265
	420					373.18	
12:00M (5/23/75)	435		100	735	180		262
	457					371.28	

JODA LANE 1-29 PROD TEST #1 (CONT'D)

	REAL TIME	ELAPSED TIME	NOMINAL TUBE DEPTH	N ₂ RATE	BRINE RATE	CUM PROD	BOTTOM HOLE PRESS (978') PSI	SURFACE TEMP. * °F
		MIN	FT	CFM	B/D	BSL		
FROM 1:20 TO 3:42 GAGE TR MINS DRAINED & NO GAGES TAKEN. ASSUME 565% RATE	1:20 AM	494 515 532 569 606 643	947	100	707	219	368.98	257
SHUT OFF N ₂ @ 3:50 (65M) WELL FLOWING	3:42	657 680 709 718		0			367.29 367.91 367.91	270 242
	4:34	721			424	290	368.32	
	4:46	735			230	292		
SI @ SURF FOR FINAL	5:00	756	60		295	295		
	5:21	793				<u>301</u>	368.94	
		830					369.56	
		868					370.18	
		905					370.07	
		942					369.96	
		979					367.67	
		1016					367.67	
		1054					365.87	
		1092					362.10	
PUMP H ₂ O DOWN TBINA TO COOL & KILL WELL	11:00	1095 1102 1108 1110 1122 1123					434.90 440.04 454.04 476.17 482.29 389.11	
FINAL HYDROSTATIC								

* SURFACE TEMPERATURE HAS MEASURED WITH A CONTACT THERMOMETER ATTACHED TO THE OUTSIDE OF THE FLOW LINE. THESE READINGS ARE AFFECTED BY AMBIENT TEMP. & WIND CONDITIONS & ARE AT LEAST 10°F LOW.

300B LANE 1-29 PROD. TEST #2 5/24/75

	REAL TIME	ELAPSED TIME	NOWS-0 TO-DEPTH	N ₂ RATE	BRINE RATE	CUM. PROD	BOTTOM HOLESNESS (760') PSI	SURFACE TEMP
		MIN	FT	CC/HR	BTU	BOE		°F
START N ₂ INJ	5/24/75 5:53 AM	0	700	100	-	-		
	4:16	23		}	872	12		100
	4:31	38			922	21		
	5:01	68		200				133
	5:16	83		}	828	50		
	5:22	89		}	792	53		142
	5:30	97		}	1157	59		144
	5:32	99		300				
	5:46	113		100				
	5:49	116		}	727	69		144
	5:59	126		}	535	75		163
	6:07	134		}	1381	83		174
	6:34	161		}	1072	103		194
NO GAGES TAKEN - TANK DRAINED	6:58	185		}	1380	120		210
	8:35	282			1200 Est	207		217
	8:54	301			1016	220		244
	9:07	314			850	228		248
NO GAGES TAKEN - TANK DRAINED	9:27	334			1102	243		258
	10:45	SI	N ₂ TO TAKE PRESSURE SAMPLE					200
	10:58	425		100	840 Est	296		
	11:12	439		50-100	580	302		231
STOP N ₂	11:25	452	100	0	0	307		240
S.I. AT SURFACE	11:30	457						
PUMP IN H ₂ O TO COOL WELL	5:15 PM	802						
PULL PUMP	5:30	817						

RECORDS W/O NOT FUNCTION

PRODUCTION RECORD

Test #1 - May 22, 1975 (4:54 PM) - May 23, 1975 (5:12 AM)

<u>Time</u>	<u>Tank Depth</u>	<u>Inches</u>	<u>Cumulative Inches</u>	<u>Cumulative Barrels</u>	<u>Barrels</u>	<u>Bbl./day Rate</u>
5:45	4.5	-	-	-	-	-
5:54	5.25	.75	.75	2.87	2.87	459
6:05	6.25	1	1.75	6.7	3.83	501
6:12	7.12	.87	2.62	10.03	3.33	685
6:16	8.0	.88	3.5	13.40	3.37	1213
6:29	9.5	1.5	5.0	19.15	5.74	636
6:38	10.75	1.25	6.25	23.94	4.79	766
6:57	14.0	3.25	9.5	36.38	12.45	944
7:15	16.75	2.75	12.25	46.92	10.53	892
7:30	19.0	2.25	14.5	55.54	8.62	827
7:47	21.0	2.0	16.5	63.3	7.66	649
8:20	26	5	21.5	82.4	19.18	837
9:10	33	7	28.5	109.3	26.84	773
DRAIN PIT						
10:42	19	-	-	-	-	-
11:30	25	6	34.5	132.3	23.01	690
12:00	29	4	38.5	147.6	15.34	736
1:10	39.25	10.25	48.75	187.0	39.31	708
DRAIN PIT						
3:42	29	-	-	-	-	-
4:34	33	4	52.75	202.3	15.34	425
4:46	33.5	.5	53.25	204.2	1.92	230
5:00	34.25	.75	54.0	207.1	2.88	296

PRODUCTION RECORD

Test #2 - May 24, 1975 (3:57 AM - 11:30 AM)

<u>Time</u>	<u>Tank Depth</u>	<u>Inches</u>	<u>Cumulative Inches</u>	<u>Cumulative Barrels</u>	<u>Barrels</u>	<u>Bbl./day Rate</u>
3:57	9	-	-	-	-	-
4:16	12	3	3	11.50	11.5	872
4:31	14.5	2.5	5.5	21.1	9.6	922
4:56	19	4.5	10	38.4	17.3	996
5:16	22	3	13	49.9	11.5	828
5:22	22.85	0.85	13.85	53.1	3.3	792
5:30	24.5	1.65	15.5	59.4	6.33	1139
5:49	27	2.5	18	69.03	9.6	727
5:59	28.5	1.5	19.5	74.8	5.8	835
6:07	30.5	2.0	21.5	82.5	7.67	1381
6:34	35.75	5.25	26.75	102.6	20.1	1072
6:58	41.75	6.0	32.75	125.6	23.0	1380
DRAIN						
8:35	32.5	-	-	-	-	-
8:54	36.0	3.5	36.25	139.0	13.4	1016
9:07	38.0	2.0	38.25	146.7	7.67	850
9:27	42.0	4.0	42.25	162.0	15.3	1102
DRAIN						
10:53	27	-	-	-	-	-
11:12	28.5	1.5	43.75	16.78	5.7	586

Estimated volumes produced while
tank was being drained

TEST PERIOD #1

1. 220 bbl/day \times 1.5 hrs = 14.8 bbl.
2. 565 bbl/day \times 2.33 hrs = 54.8 bbl.

TEST PERIOD #2

1. 1200 bbl/day \times 1.6 hrs = 80.8 bbl.
2. 840 bbl/day \times 1.5 hrs = 52.5 bbl.

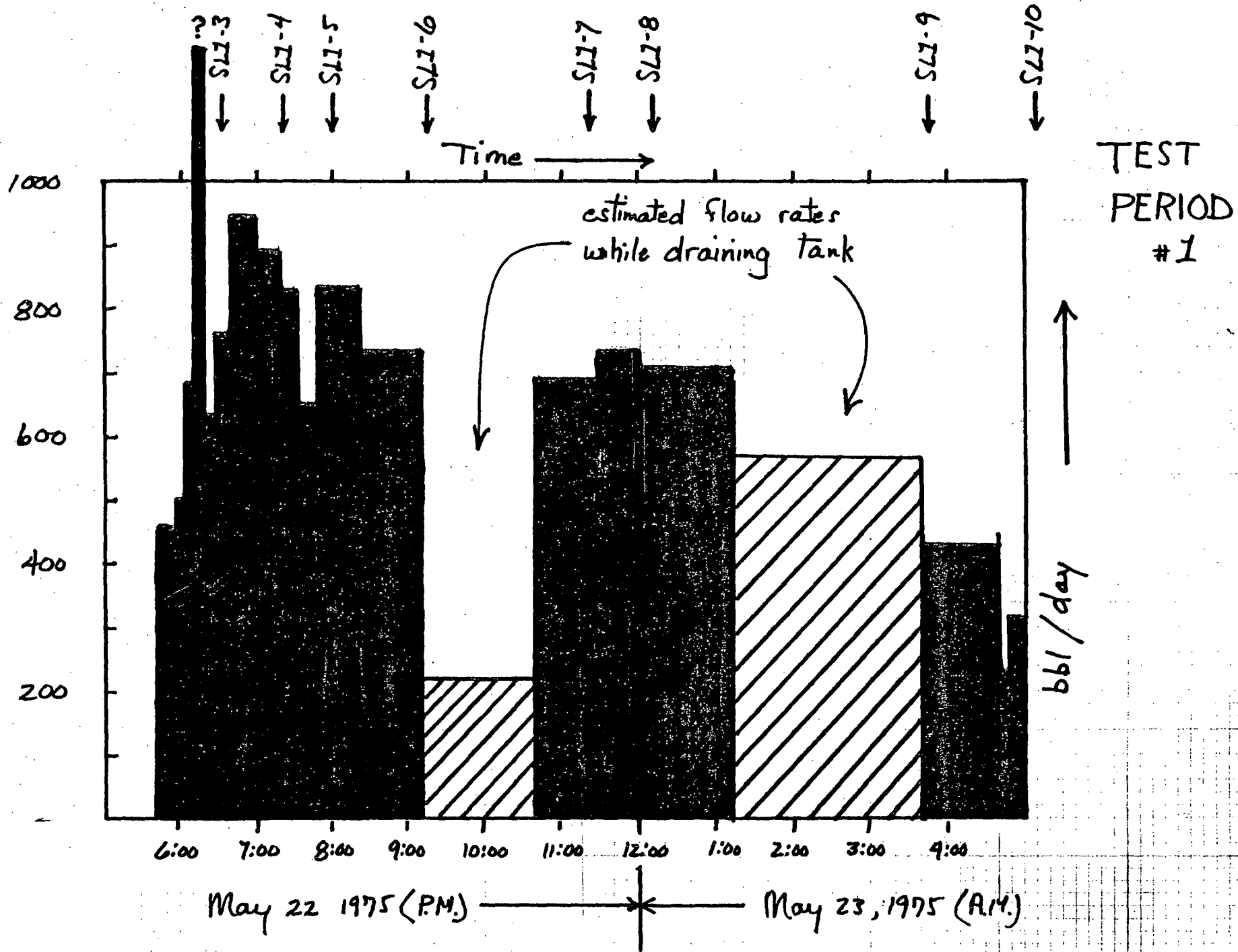
Total production

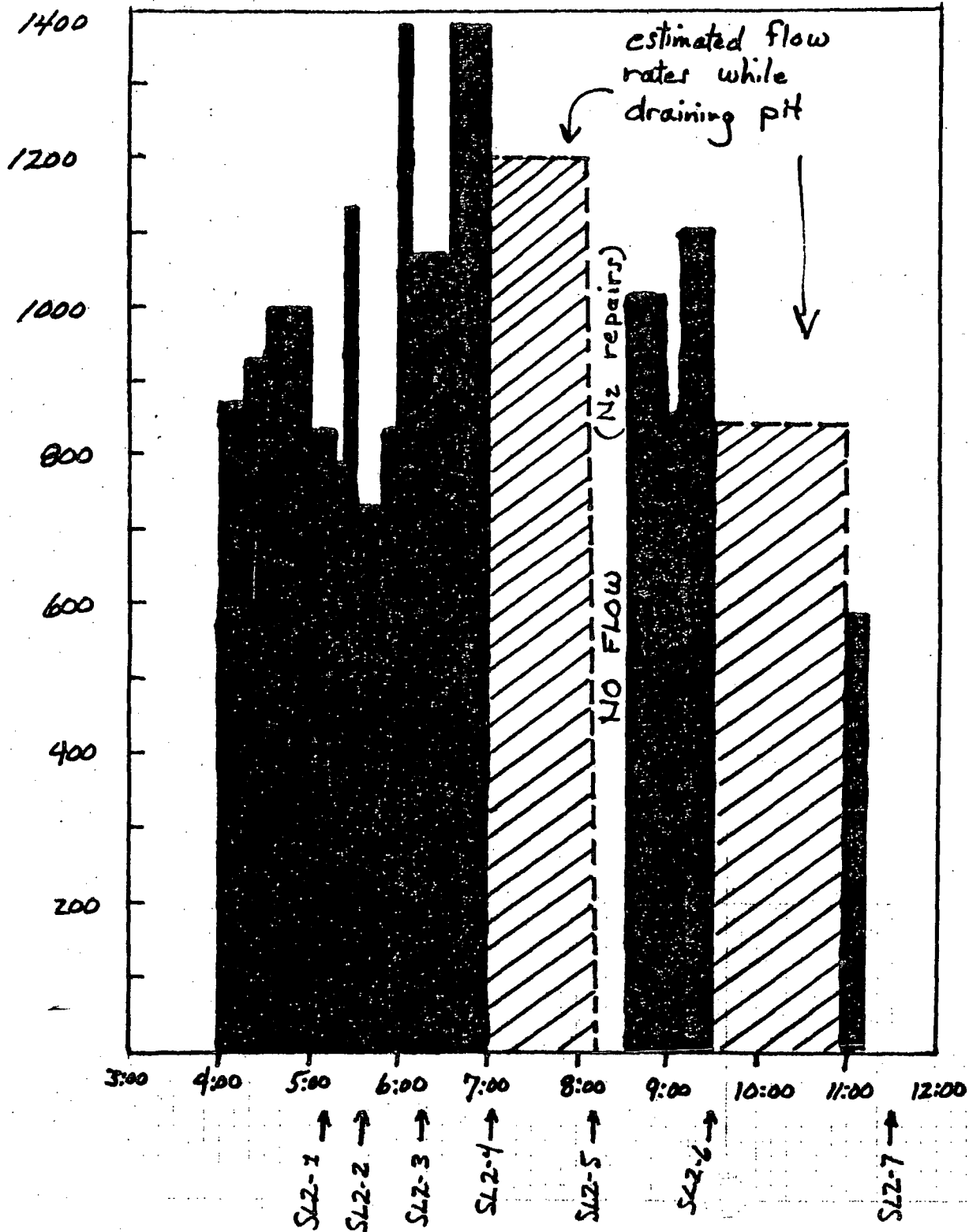
Test # 1

14.8
54.8
+ 207.1
276.7

Test # 2

80.8
52.5
+ 178.8
312.1





TEST PERIOD #2