

DIVISION OF OIL AND GAS

Report on Operations  
WATER DISPOSAL PROJECT  
Mount Poso Field  
West Area  
Olcese Zone

Mr. Donald R. Macpherson, Jr.  
MACPHERSON OIL COMPANY  
P. O. Box 5368  
Oildale, CA 93388

Bakersfield, Calif.  
June 20, 1983

Your operations at well "Ring 20" 3, API No. 029-14064,  
Sec. 20, T. 27SR. 28E M.D.B. & M. Mount Poso Field, in Kern County,  
were reviewed on 6-20-83 by Mr. David Mitchell, representative of  
the supervisor.

Present condition of well: 7" cem. 2272', perf. 2250', WSO perf. 920' - 1130', hole in  
casing 545' - 590'. (cem. off). T.D. 2317'. E.D. 2100' ±.

The operations were performed for the purpose of demonstrating that the injection fluid is  
confined to strata below 920'.

DECISION: **THE OPERATIONS ARE APPROVED AS INDICATING THAT THE INJECTION FLUID IS  
CONFINED TO STRATA BELOW 920' AT THIS TIME.**

DM/tn  
cc: RWQCB

6-22-83

S. CORDOVA, ACTING CHIEF  
DEPARTMENT OF CONSERVATION  
By [Signature]  
Deputy Supervisor  
A. G. HLUZA

RECEIVED  
8-15-84

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION

No. T. 484- 1010

DIVISION OF OIL AND GAS

Report on Operations  
Water Disposal Project  
Mount Poso Field  
West Area  
Olcese Zone

Donald R. Macpherson, Jr.  
Macpherson Oil Company  
P.O. Box 5368  
Oildale, CA 93388

Bakersfield, Calif.  
August 13, 1984

Your operations at well "Ring 20" 3, API No. 029-14064  
Sec. 20, T27S R. 28E MD B. & M. Mount Poso Field, in Kern County,  
were reviewed on 8-7-84 by David Mitchell, representative of  
the supervisor.

Present condition of well: 7" cem. 2272', perf 2250', WSO perf 920'-1130', hole in casing  
545'-590'. (cem. off). TD 2317'. ED 2100'+.

The operations were performed for the purpose of demonstrating that the injection fluid is con-  
finned to strata below 920'.

DECISION:

THE OPERATIONS ARE APPROVED AS INDICATING THAT THE INJECTION FLUID IS CONFINED TO STRATA BELOW 920' AT THIS TIME.

EAW/jt  
cc: RWQCB

M. G. Mefferd  
State Oil & Gas Supervisor  
By A. G. Hluza  
A. G. Hluza, Deputy Supervisor

mailed 3/14/83

The Resources Agency of California  
Department of Conservation

DIVISION OF OIL AND GAS  
WELL STATUS INQUIRY

Bakersfield, Calif.

March 9, 1983

To: Mr. Donald R. MacPherson, Jr.  
MACPHERSON OIL COMPANY  
P.O. Box 5368  
Oildale, CA 93388

In a notice dated 4/13 19 81, you propose to rework  
"Ring 20" well 3 (029-14064)  
Sec. 20, T. 27S, R. 28E, MD B. & M., Mt. Pass  
(Field or County)

Please indicate below conditions or intentions regarding this proposed work and return the completed form to this office within 10 days.

THIS WORK HAS BEEN DONE. If you check this space, please file the required well records on this work in duplicate within 60 days after work was completed.

THIS WORK IS IN PROGRESS AND SHOULD BE COMPLETED ABOUT \_\_\_\_\_ 19 \_\_\_\_.

THIS WORK HAS NOT BEEN DONE, BUT WE STILL INTEND TO DO THE WORK.\*  
Please give details. \_\_\_\_\_

WE DO NOT INTEND TO DO THIS WORK. Please cancel our notice to Re-work  
dated 4/13 19 81.

Signature [Handwritten Signature]

(Bonds on file covering canceled notices will be returned.)

OTHER: \_\_\_\_\_

**NOTE:** Division 3 of the Public Resources Code states in part:  
Section 3215, ...Well records shall be filed 60 days after completion or suspension of proposed work.

\*Section 3203, ...If operations have not commenced within one year of receipt of the notice, the notice will be considered canceled. (To prevent cancelation, file a Supplementary Notice with the division.)

S. CORDOVA  
Acting Chief

By Mike Klimyak

DIVISION OF OIL AND GAS  
ANNUAL WATER DISPOSAL PROJECT REVIEW

Operator: Macpherson Oil Company

DATE REVIEWED: 3/10/90

Field: Mt. Poso

Area: West

Zone: Olcese

1. Status of injectors (lease, well #, sec, twm, rng):

Idle: 0

Active: Ring #3 Sec.20 T27S, R28E

2. Average injection pressure and rate:

1900 BPD 0#

3. Type of injection fluid (produced water, regeneration brine, scrubber, ect.):

Produced water

4. Source of injection fluid (field, zone, operator):

Mt. Poso-West area, Vedder, Macpherson Oil Co.

5. Anticipated change(s) in operations (expansion, abd, rate, fluid type/source):

None

6. Is any fluid being trucked to the injection well(s) (even trucking your own fluid)?

No

7. Plans for idle (if any) injection wells (see attached list).

N/A

DEPARTMENT OF CONSERVATION  
DIVISION OF OIL AND GAS1800 STOCKDALE HWY., SUITE # 417  
BAKERSFIELD, CALIFORNIA 93309  
805) 322-4031

Project Code: 48818029

September 11, 1991

Mr. C. E. Williamson  
MACPHERSON OIL COMPANY  
P. O. Box 5368  
Bakersfield; CA 93388ANNUAL PROJECT REVIEW  
WATER DISPOSAL PROJECT  
Mount Poso Field  
West Area  
Olcasa Zone  
Secs. 18,20, T.27S., R.28E.

Dear Mr. Williamson:

This Division maintains a continuous monitoring and surveillance program regarding enhanced recovery and water disposal projects. A portion of this program involves conducting an annual review of these projects with the appropriate individual from the project(s) operator(s).

We wish to schedule a review within the next 15 days of your projects located in Kern County. Attached is a list of general questions we will be covering during this review. Field and project compliance to present regulations will also be discussed.

Please contact this office at your earliest possible convenience to arrange for this review.

I look forward to hearing from you in the near future. If you have any questions, please contact me at (805) 322-4031.

Yours truly,

*Richard Thesken*Richard S. Thesken  
Associate Oil and Gas Engineer

RST/njk

Attachment

cc: Unit Supervisor

ASE

WELL #

API #

SE

DN TOWNSHIP RANGE

VG 20

3

029-14064

20 27S

28E

VG 18

13

029-14052

18 27S

28E

ANNUAL PROJECT REVIEW

page 1

OPERATOR: Macpherson Oil Co.

TYPE OF PROJECT: WD

PROJECT CODE: 48818029

LOCATION: 18 27/28

FIELD: MOUNT POSO

AREA: WEST

ZONE: OLCESE

INJECTION DATA:

1. STATUS OF INJECTORS:

(List only total number of wells in each category)

ACTIVE: Ring 20 #3 IDLE: Ring 18 #13  
(029-14064) (029-14052)

(Please check the attached list of well(s) in this project. Indicate, next to the well number, the well's status; i.e. active, idle, abandoned, converted to producer, etc. If a well is on this list in error, indicate such. If there are additional wells that should be included on the list, please add them.)

2. INJECTION RATE AND PRESSURE:

a. average press: 180 psig maximum press: 300 psig

b. average rate: 1100 b/d/well maximum rate: 4,000 b/d/well

3. TYPE OF INJECTION FLUID: (produced water, regeneration brine, scrubber effluent, etc.) produced water

Please include recent (not over two years old) injectate analysis.

4. SOURCE OF INJECTION FLUID:

OPERATOR: Macpherson Oil Company FIELD: Mount Poso

ZONE: Vedder OTHER: \_\_\_\_\_

5. METHOD OF FLUID TRANSPORT TO INJECTORS:

a) pipe X b) truck \_\_\_\_\_

If fluid is trucked, then list the following:

a) Source of trucked fluid:

b) Name(s) of haulers authorized to unload at site:

c) Hours at which haulers may unload at well:

d) Number of loads & volume received per day and/or per week:

e) What precautions are being taken to prevent unauthorized unloading at the facility:

6. ANTICIPATED PROJECT ( GES: (expansions, abds, i e chg, fluid chg, etc)  
none

page 2

7. PLANS FOR IDLE INJECTORS:  
none

PROJECT PERFORMANCE DATA:  
(for steamflood and water flood only)

1. Number of producing wells associated with project: n/a
2. Gross producing rates (oil, water, and gas) for stimulated zones:  
OIL: n/a b/d GAS: n/a Mcf/d WATER: n/a b/d
3. Incremental oil production attributable to this project:  
n/a bbl/calender year.
4. Average reservoir pressure: n/a
5. Average reservoir temperature: n/a

OTHER DATA NECESSARY TO COMPLETE THIS REVIEW:

RATOR SIGNATURE:

*Chris Wilkins*

DATE: 9-27-91

Phone: 393-3204



M0950 Operator: Macpherson Oil Co.

Project Type: WD

Project Code: 48818029

Field: Mount Poso

Area: West

Zone: OLCSE

Location: 18 27/28 . 20 27/28

PLEASE USE EXTRA PAGES AS NEEDED.

1. Number of Injectors: ACTIVE: 1 IDLE: 0

2. Injection Pressure and Rate:

a. average pressure: 0 psig maximum pressure: 100 psig

b. average rate: 4000 ~~4800~~ bbl/d/well maximum rate: 4000 ~~10,000~~ bbl/d/well

3. Injection Fluid Type:

Produced Water  Scrubber Effluent  Regeneration Brine  
 Other (Specify) Plant Water

PLEASE SUBMIT AN INJECTATE ANALYSIS NOT OVER TWO YEARS OLD, TO INCLUDE:

Ca, Mg, Na, K, Fe, Cl, SO4, B, Total Dissolved Solids, pH, Alkalinity, Hardness, Resistivity, and Electrical Conductivity.

4. Self-Generated and Outside Source(s) of Injection Fluid (MUST complete if active):

A. Leases or other sources operated by you that are associated with this project:

1. Field: \_\_\_\_\_ Zone: \_\_\_\_\_

Lease: \_\_\_\_\_ By: \_\_\_\_\_ pipeline \_\_\_\_\_ truck

2. Field: \_\_\_\_\_ Zone: \_\_\_\_\_

Lease: \_\_\_\_\_ By: \_\_\_\_\_ pipeline \_\_\_\_\_ truck

B. Leases or other sources operated by others associated with this project:

Do you receive a net-profit compensation for this service? No

1. Operator: Mt. Poso Cogeneration Co. Field: Mt. Poso

Zone: Ve dder Lease: Ring

Transport by: X pipeline \_\_\_\_\_ truck

2. Operator: \_\_\_\_\_ Field: \_\_\_\_\_

Zone: \_\_\_\_\_ Lease: \_\_\_\_\_

Transport by: \_\_\_\_\_ pipeline \_\_\_\_\_ truck

Safeguards against unauthorized unloading: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. For Each Trucked Source Noted in # 4:

- a. injectate source.
- b. name of authorized transportation hauler.
- c. delivery schedule(s).
- d. average loads per day or per week and volumes.

6. Anticipated project changes: (expansions, abds, rate chg, fluid chg, etc.)

None

7. Plans for Idle Projects: NA

If the source lease(s) is active, what is the disposal method and disposition of the fluid previously allocated to this project?

8. Plans for Idle Injectors: None

Other Data Necessary to Complete This Review:

Operator Signature: JS Fuller Date: 1-17-08

Day Phone: 393-3204 Evening Phone: 746-4126 Emergency Phone: 201-9972

Please check the attached list of well(s) for accuracy and note any changes, including any wells missing from the list.

October 9, 2007

WELLS IN PROJECTS BEING REVIEWED  
District 4  
Bakersfield, CA

PROJECT CODE	Well Designation	API #	Sec	TWN	RGE	Well Status
48818029	"Ring 20" 3	029-14064	20	27S	28E	A

M0950 Operator: Macpherson Oil Co.

Project Type: WD

Project Code: 48818029

Field: Mount Poso

Area: West

Zone: OLCESE

Location: 18 27/28 20 27/28

PLEASE USE EXTRA PAGES AS NEEDED.

1. Number of Injectors: ACTIVE: 0 IDLE: 1

2. Injection Pressure and Rate:

a. average pressure: \_\_\_\_\_ psig maximum pressure: \_\_\_\_\_ psig

b. average rate: 0 bbl/d/well maximum rate: 0 bbl/d/well

3. Injection Fluid Type:

\_\_\_\_ Produced Water      \_\_\_\_ Scrubber Effluent      \_\_\_\_ Regeneration Brine  
\_\_\_\_ Other (Specify) \_\_\_\_\_

PLEASE SUBMIT AN INJECTATE ANALYSIS NOT OVER TWO YEARS OLD, TO INCLUDE:  
Ca, Mg, Na, K, Fe, Cl, SO4, B, Total Dissolved Solids, pH, Alkalinity, Hardness,  
Resistivity, and Electrical Conductivity. *No analysis needed*

4. Self-Generated and Outside Source(s) of Injection Fluid (MUST complete if active):

A. Leases or other sources operated by you that are associated with this project:

1. Field: \_\_\_\_\_ Zone: \_\_\_\_\_

Lease: \_\_\_\_\_ By: \_\_\_\_\_ pipeline \_\_\_\_\_ truck

2. Field: \_\_\_\_\_ Zone: \_\_\_\_\_

Lease: \_\_\_\_\_ By: \_\_\_\_\_ pipeline \_\_\_\_\_ truck

B. Leases or other sources operated by others associated with this project:

Do you receive a net-profit compensation for this service? \_\_\_\_\_

1. Operator: \_\_\_\_\_ Field: \_\_\_\_\_

Zone: \_\_\_\_\_ Lease: \_\_\_\_\_

Transport by: \_\_\_\_\_ pipeline \_\_\_\_\_ truck

2. Operator: \_\_\_\_\_ Field: \_\_\_\_\_

Zone: \_\_\_\_\_ Lease: \_\_\_\_\_

Transport by: \_\_\_\_\_ pipeline \_\_\_\_\_ truck

Safeguards against unauthorized unloading: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. For Each Trucked Source Noted in # 4:

- a. injectate source.
- b. name of authorized transportation hauler.
- c. delivery schedule(s).
- d. average loads per day or per week and volumes.

6. Anticipated project changes: (expansions, abds, rate chg, fluid chg, etc.)

7. Plans for Idle Projects:

If the source lease(s) is active, what is the disposal method and disposition of the fluid previously allocated to this project?

8. Plans for Idle Injectors:

Other Data Necessary to Complete This Review:

Operator Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Day Phone: \_\_\_\_\_ Evening Phone: \_\_\_\_\_ Emergency Phone: \_\_\_\_\_

Please check the attached list of well(s) for accuracy and note any changes, including any wells missing from the list.

April 15, 2009

WELLS IN PROJECTS BEING REVIEWED  
District 4  
Bakersfield, CA

Project Code	Well Designation	API #	Sec	TWN	RGE	Well Status
48818029	"Ring 20" 3	029-14064	20	27S	28E	R

M0950 Operator: Macpherson Oil Company

Project Type: WD

Project Code: 48818029

Field: Mount Poso

Area: West

Zone: OLCSE

Location: 18 27/28 20 27/28

PLEASE USE EXTRA PAGES AS NEEDED.

1. Number of Injectors: ACTIVE: \_\_\_\_\_ IDLE: 1

2. Injection Pressure and Rate:

a. average pressure: \_\_\_\_\_ psig maximum pressure: \_\_\_\_\_ psig

b. average rate: \_\_\_\_\_ bbl/d/well maximum rate: \_\_\_\_\_ bbl/d/well

3. Injection Fluid Type:

\_\_\_\_\_ Produced Water \_\_\_\_\_ Scrubber Effluent \_\_\_\_\_ Regeneration Brine

\_\_\_\_\_ Other (Specify) \_\_\_\_\_

PLEASE SUBMIT AN INJECTATE ANALYSIS NOT OVER TWO YEARS OLD, TO INCLUDE: **DUE** *NOTE: if no well or injectors, NOT DUE*  
Ca, Mg, Na, K, Fe, Cl, SO4, B, Total Dissolved Solids, pH, Alkalinity, Hardness, Resistivity, and Electrical Conductivity.

4. Self-Generated and Outside Source(s) of Injection Fluid (MUST complete if active):

A. Leases or other sources operated by you that are associated with this project:

1. Field: \_\_\_\_\_ Zone: \_\_\_\_\_

Lease: \_\_\_\_\_ By: \_\_\_\_\_ pipeline \_\_\_\_\_ truck

2. Field: \_\_\_\_\_ Zone: \_\_\_\_\_

Lease: \_\_\_\_\_ By: \_\_\_\_\_ pipeline \_\_\_\_\_ truck

B. Leases or other sources operated by others associated with this project:

Do you receive a net-profit compensation for this service? \_\_\_\_\_

1. Operator: \_\_\_\_\_ Field: \_\_\_\_\_

Zone: \_\_\_\_\_ Lease: \_\_\_\_\_

Transport by: \_\_\_\_\_ pipeline \_\_\_\_\_ truck

2. Operator: \_\_\_\_\_ Field: \_\_\_\_\_

Zone: \_\_\_\_\_ Lease: \_\_\_\_\_

Transport by: \_\_\_\_\_ pipeline \_\_\_\_\_ truck

Safeguards against unauthorized unloading: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. For Each Trucked Source Noted in # 4:

- a. injectate source.
- b. name of authorized transportation hauler.
- c. delivery schedule(s).
- d. average loads per day or per week and volumes.


6. Anticipated project changes: (expansions, abds, rate chg, fluid chg, etc.)

7. Plans for Idle Projects:

If the source lease(s) is active, what is the disposal method and disposition of the fluid previously allocated to this project?

8. Plans for Idle Injectors:

Other Data Necessary to Complete This Review:

Operator Signature:  Date: 9/29/10  
 Day Phone: (661) 393-3204 Evening Phone: 344-6779 Emergency Phone: \_\_\_\_\_

Please check the attached list of well(s) for accuracy and note any changes, including any wells missing from the list.



July 07, 2010

WELLS IN PROJECTS BEING REVIEWED  
District 4  
Bakersfield, CA

Project Code	Well Designation	API #	Sec	TWN	RGE	Well Status
48818029	"Ring 20" 3	029-14064	20	27S	28E	R

↑  
Rescinded

M0950 Operator: Macpherson Oil Company

Project Type: WD

Project Code: 48818029

Field: Mount Poso

Area: West

Zone: OLCESE

Location: 18 27/28 20 27/28

PLEASE USE EXTRA PAGES AS NEEDED.

1. Number of Injectors: ACTIVE: \_\_\_\_\_ IDLE: 1

2. Injection Pressure and Rate:

a. average pressure: 0 psig maximum pressure: \_\_\_\_\_ psig

b. average rate: 0 bbl/d/well maximum rate: \_\_\_\_\_ bbl/d/well

3. Injection Fluid Type:

\_\_\_\_\_ Produced Water \_\_\_\_\_ Scrubber Effluent \_\_\_\_\_ Regeneration Brine

\_\_\_\_\_ Other (Specify) \_\_\_\_\_

PLEASE SUBMIT AN INJECTATE ANALYSIS NOT OVER TWO YEARS OLD, TO INCLUDE: DUE Ca, Mg, Na, K, Fe, Cl, SO4, B, Total Dissolved Solids, pH, Alkalinity, Hardness, Resistivity, and Electrical Conductivity.

4. Self-Generated and Outside Source(s) of Injection Fluid (MUST complete if active):

A. Leases or other sources operated by you that are associated with this project:

1. Field: \_\_\_\_\_ Zone: \_\_\_\_\_

Lease: \_\_\_\_\_ By: \_\_\_\_\_ pipeline \_\_\_\_\_ truck

2. Field: \_\_\_\_\_ Zone: \_\_\_\_\_

Lease: \_\_\_\_\_ By: \_\_\_\_\_ pipeline \_\_\_\_\_ truck

B. Leases or other sources operated by others associated with this project:

Do you receive a net-profit compensation for this service? \_\_\_\_\_

1. Operator: \_\_\_\_\_ Field: \_\_\_\_\_

Zone: \_\_\_\_\_ Lease: \_\_\_\_\_

Transport by: \_\_\_\_\_ pipeline \_\_\_\_\_ truck

2. Operator: \_\_\_\_\_ Field: \_\_\_\_\_

Zone: \_\_\_\_\_ Lease: \_\_\_\_\_

Transport by: \_\_\_\_\_ pipeline \_\_\_\_\_ truck

Safeguards against unauthorized unloading: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. For Each Trucked Source Noted in # 4:

- a. injectate source.
- b. name of authorized transportation hauler.
- c. delivery schedule(s).
- d. average loads per day or per week and volumes.


6. Anticipated project changes: (expansions, abds, rate chg, fluid chg, etc.)

7. Plans for Idle Projects:

If the source lease(s) is active, what is the disposal method and disposition of the fluid previously allocated to this project?

8. Plans for Idle Injectors:

Other Data Necessary to Complete This Review:

Operator Signature:  Date: 3/11/12

Day Phone: (661) 344-6779 Evening Phone: (661) 344-6779 Emergency Phone: (661) 393-3204

Please check the attached list of well(s) for accuracy and note any changes, including any wells missing from the list.

January, 19, 2012

WELLS IN PROJECTS BEING REVIEWED  
District 4  
Bakersfield, CA

Project Code	Well Designation	API #	Sec	TWN	RGE	Well Status
48818029	"Ring 20" 3	029-14064	20	27S	28E	R

DEPARTMENT OF CONSERVATION  
DIVISION OF OIL AND GAS  
1416—9th STREET, ROOM 307X 1310  
SACRAMENTO, CALIFORNIA 95814  
916) 443-9686



June 23, 1982

Hartford Accident and Indemnity Company  
P. O. Box 3615  
San Francisco, California 94119

Gentlemen:

All conditions have been fulfilled for the termination of individual  
bond No. 50418 79 I, dated April 6, 1981, in the amount  
of \$10,000.00 (covering well(s) "Ring 20" 3) and  
executed by you as surety on behalf of Thomas Oil Company  
as principal.

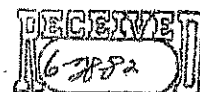
The termination date of this bond is April 30, 1982.

Sincerely,

*June King*

*for* M. G. Mefferd  
State Oil and Gas Supervisor

cc: Macpherson Oil Company ✓  
P. O. Box 5368  
Oildale, California 93308



DIVISION OF OIL AND GAS

NOTICE OF RECORDS DUE

Bakersfield, Calif.

April 8, 1977

Done 4-11-77

Mr. L. C. Fiedler  
THOMAS OIL COMPANY  
P. O. Box 5368  
Oildale, CA 93308

In accordance with Division 3 of the Public Resources Code of California the following records are due, covering the recompletion of your well(s) No. "Ring 20" 3 & 13 Sec. 20, Tp. 27S, R. 28E, M.D. B. & M., Mount Poso (Field or County)

- Well summary (Form OG100)
- Drillers log (Form OG101) NOTE: Not required if electric log is filed.
- Core record (Form OG101)
- History (Form OG103)
- Electric log: (1" = 50 ft.)
- Production report (Form OG110) for months of \_\_\_\_\_
- Other \_\_\_\_\_

These records should be submitted *in duplicate* as soon as possible.

Please be sure that the records are signed in the spaces provided.

RS/n1

G. W. Hunter

Deputy Supervisor

By Richard W. Stehle  
Energy & Mineral Resources Engr.

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL AND GAS

REPORT OF CORRECTION OR CANCELLATION

Bakersfield, California

Mr. L. C. Fiedler  
THOMAS OIL COMPANY  
P. O. Box 5368  
Oildale, CA 93308

February 22, 1977

In accordance with your letter dated February 11, 1977, and received February 15, 1977,

the following change pertaining to your well No. "Ring 20" 3 (029-14064),  
Sec. 20, T. 27S, R. 28E, M.D. B. & M., Mount Poso field,  
Kern County, District No. 4, is being made in our records:

- The corrected location is \_\_\_\_\_
- The corrected elevation is \_\_\_\_\_
- Report No. \_\_\_\_\_, dated \_\_\_\_\_, has been corrected as follows: \_\_\_\_\_

Your notice to alter casing in water disposal dated August 11, 1975,  
(Drill, abandon, etc.)  
and our report No. P 475-2472, issued in answer thereto, are hereby cancelled inasmuch as the work will not be done. If you have a drilling bond on file covering this notice it will be returned. No request for such return is necessary.

Other: \_\_\_\_\_

/nl  
cc: Frank P. Mondary

*Correct*  
*mm 2/24/77*

M. G. MEPPERD, Acting Chief  
~~XXXXXXXXXXXXXXXXXXXX~~  
~~State Oil and Gas Subscribers~~

By G. W. Hunter  
Deputy Supervisor

DEPARTMENT OF CONSERVATION  
DIVISION OF OIL AND GAS4800 STOCKDALE HWY., SUITE # 417  
BAKERSFIELD, CALIFORNIA 93309  
(805) 322-4031

June 4, 1990

Mr. D. R. Macpherson Jr.  
MACPHERSON OIL COMPANY  
P. O. Box 5368  
Bakersfield, CA. 93388

## INJECTION SURVEY DUE

Dear Mr. Macpherson:

According to our records, injection surveys are now due on the following well(s). Should any of these wells be presently idle or if a survey has recently been run, please notify this office within 10 days.

Wells followed by an asterisk (\*) are overdue. Unless the survey is run within 30 days, injection approval will be rescinded. This office should be notified to witness the asterisked wells.

If there are any questions, please call me at (805) 322-4031.

SEE LIST ATTACHED

Yours truly,

David Mitchell  
For Deputy Supervisor

A handwritten signature in cursive script that reads "Joseph L. Perrick".

By Joseph L. Perrick  
Energy and Mineral Resources Engineer

DM/JLP/njk

JUN 06 1990



INJECTION SURVEYS DUE  
District 4  
Bakersfield, California

June 1, 1991

OPERATOR	FIELD	LEASE	WELL NUMBER	API NUMBER	SURVEY DUE DATE
McPherson Oil Co.	MOUNT POSO	RING 18	16	02966534	05/01/90
		RING 18	19	02967011	05/01/90
		RING 20	16	02914078	05/01/90
		RING 20	3	02914064	05/01/90

DEPARTMENT OF CONSERVATION  
DIVISION OF OIL AND GAS4800 STOCKDALE HWY., SUITE #417  
BAKERSFIELD, CALIFORNIA 93309  
(805) 322-4031

June 4, 1990

Mr. D. R. Macpherson Jr.  
MACPHERSON OIL COMPANY  
P. O. Box 5368  
Bakersfield, CA. 93388

## INJECTION SURVEY DUE

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If there are any questions, please call me at (805) 322-4031.

SEE LIST ATTACHED

Yours truly,

David Mitchell  
For Deputy Supervisor

A handwritten signature in cursive script that reads "Joseph L. Perrick".

By Joseph L. Perrick  
Energy and Mineral Resources Engineer

DM/JLP/njk

JUN 08 1990

INJECTION SURVEYS DUE  
District 4  
Bakersfield, California

June 1, 19

OPERATOR	FIELD	LEASE	WELL NUMBER	API NUMBER	SURVEY DUE DATE
McPherson Oil Co.	MOUNT POSO	RING 18	16	02966534	05/01/90
		RING 18	19	02967011	05/01/90
		RING 20	16	02914078	05/01/90
		RING 20	3	02914064	05/01/90

DEPARTMENT OF CONSERVATION  
DIVISION OF OIL AND GAS4800 STOCKDALE HWY., SUITE #417  
BAKERSFIELD, CALIFORNIA 93309  
(805) 322-4031

June 4, 1991

Mr. Chris E. Williamson  
MACPHERSON OIL COMPANY  
P. O. Box 5368  
Bakersfield, CA. 93388

## INJECTION SURVEY DUE

Dear Mr. Williamson:

According to our records, injection surveys are now due on the following well(s). Should any of these wells be presently idle or if a survey has recently been run, please notify this office within 10 days.

Wells followed by an asterisk (\*) are overdue. Unless the survey is run by the end of the month, injection approval will be rescinded. This office should be notified to witness the asterisked wells.

If there are any questions, please call me at (805) 322-4031.

SEE LIST ATTACHED

Yours truly,

Hal Bopp  
Deputy Supervisor

A handwritten signature in cursive script that reads "Mark T. Gamache".

By Mark T. Gamache  
Energy and Mineral Resources Engineer

HB/MTG/njk

RECEIVED

JUN 05 1991

INJECTION SURVEYS DUE  
District 4  
Bakersfield, California

June 3, 1991

OPERATOR	FIELD	LEASE	WELL NUMBER	API NUMBER	SURVEY DUE DATE
herson Oil Co.	MOUNT POSO	RING 18	16	02966534	05/30/91
		RING 18	19	02967011	05/30/91
		RING 20	3	02914064	05/30/91

INJECTION SURVEYS DUE  
District 4  
Bakersfield, California

June 3, 1991

OPERATOR	FIELD	LEASE	WELL NUMBER	API NUMBER	SURVEY DUE DATE
herson Oil Co.	ROUND MOUNTAIN	OLCESE 1	WD-342	02947441	05/30/91

# MASPHERSON

O I L C O M P A N Y

2716 OCEAN PARK BOULEVARD, SUITE 3080  
SANTA MONICA, CALIFORNIA 90405  
TEL: 213 452 3880 FAX: 213 452 0058

P.O. BOX 5368  
BAKERSFIELD, CALIFORNIA 93388  
TEL: 805 393 3204 FAX: 805 393 8065

June 27, 1989

Bureau of Land Management  
800 Truxtun Ave,  
Bakersfield, Ca 93309

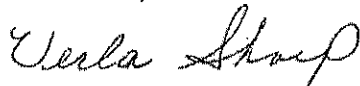
Re: Water Injection Survey:

To whom it may concern:

Please find enclosed the Water Injection Survey Logs on well  
listed below:

Sec. 18, Ring #16  
Sec. 20, Ring # 3  
Bell #18

Sincerely,



Verla Sharp

Enclosures

October 24, 1977

United States Dept. of the Interior  
Geological Survey  
309 Federal Building  
800 Truxtun Avenue  
Bakersfield, California 93301

Attn: J. P. Wagner, Acting District Engineer

Gentlemen:

Your letter dated June 24th received. Please find the following:

1. D.O.G. map of Maricopa Lease (LA 033358) and attachment indicating sump areas.
2. Copy of combined water analysis for disposal waters including water from SAC 019701.
3. Disposal wells that may receive comingled water from SAC 019701 are:

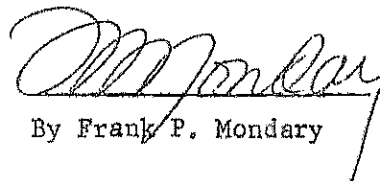
West Signal #8 - Walker  
West Signal #28 - Pyramid Hills  
East Signal #19 - Pyramid Hills  
Coffee #5 - Pyramid Hills (Sec. 6/T.28S/R.28E MDB&M)

4. Water injection reports since February 1976 on the following are enclosed:

Bishop #6 (SAC 034863)  
Tribe #A-10 (SAC 021579-A)  
Ring #20-3 (SAC 044132)

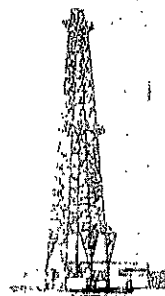
Should you have any questions, contact the undersigned.

Very truly yours,  
THOMAS OIL COMPANY

  
By Frank P. Mondary

FPM:clk

cc: File



FRANK P. MONDARY

PETROLEUM GEOLOGIST

2529 Monterey Street, Bakersfield, California 93306

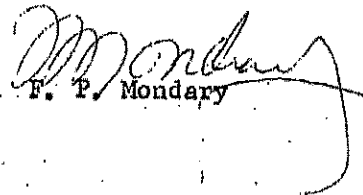
(805) 323 6971

November 11, 1977

Attn: Larry Bright  
Division of Oil & Gas  
520 Kentucky Street  
Bakersfield, Calif. 93305

Please find enclosed 2 copies of injection profile for well Ring 20-3.  
Request of rework was satisfactory as indicated by this log.

Very truly yours,

  
F. P. Mondary

FPM:clk





FRANK P. MONDARY

PETROLEUM GEOLOGIST

2529 Monterey Street, Bakersfield, California 93306 • (805) 323 6971

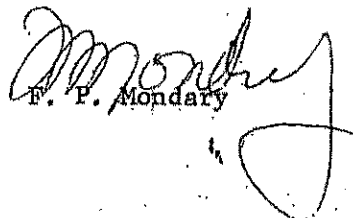
---

November 11, 1977.

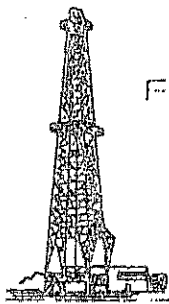
U. S. Geological Survey  
800 Truxtun Ave.  
Bakersfield, Calif. 93301

Please find enclosed 2 copies of injection profile for well Ring 20-3.  
Request of rework was satisfactory as indicated by this log.

Very truly yours,

  
F. P. Mondary

FPM:clk



FRANK P. MONDARY

PETROLEUM GEOLOGIST

2529 Monterey Street, Bakersfield, California 93306

393-3204  
(805) ~~823-6971~~

November 21, 1977

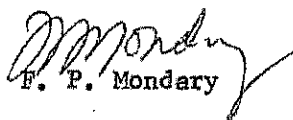
Larry Bright  
Division of Oil & Gas  
520 Kentuck Street  
Bakersfield, Calif. 93305

Re: Thomas Oil Co. Ring 20-3  
W.D.W. Sec. 20 T27SR28E MDB&M

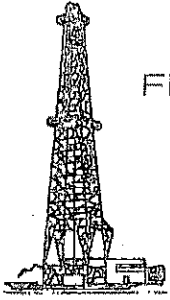
Please find enclosed injection profile logs run 9-13-77 prior to reworking of well.

These logs were inadvertently not mailed in prior to the rework operations.

Very truly yours,

  
F. P. Mondary

FPM:clk



FRANK P. MONDARY

PETROLEUM GEOLOGIST

2529 Monterey Street, Bakersfield, California 93306 • 303-3204  
(805) 323-6074-

November 21, 1977

U.S. Geological Survey  
800 Truxtun Ave.  
Bakersfield, Calif. 93301

Re: Thomas Oil Company  
Ring 20-3 Sec. 20 T27828E

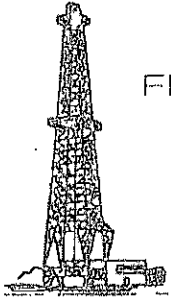
Please find enclosed two copies of cement bond log from captioned well.

Very truly yours,

*F. P. Mondary*  
F. P. Mondary *f.e.*

FPM:clk

cc: file



FRANK P. MONDARY

PETROLEUM GEOLOGIST

2529 Monterey Street, Bakersfield, California 93306

393-3204  
(805) 342-4941

November 21, 1977

Larry Bright  
Division of Oil & Gas  
520 Kentucky Street  
Bakersfield, Calif. 93305

Re: Thomas Oil Company  
Ring 20-3 Sec. 20 T27SR28E

Please find enclosed two copies of cement bond log from captioned well.

Very truly yours,

  
F. P. Mondary

FPM:clk

cc: file ✓

June 11, 1979

United States Geological Survey  
800 Truxtun Avenue  
Bakersfield, California 93301

RE: W. D. W. Tracer survey

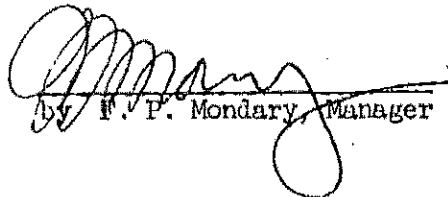
Mr. D. Rintoul, Engr.

Please find enclosed copies of logs run in following wells:

<u>well#</u>	<u>area</u>
Tribe A-10	Mt. Poso
Ring 20-3	West Mt. Poso
Bishop 6	Sharktooth

Please advise if you need additional information.

Thomas Oil Company-National  
Petroleum Associates

  
by F. P. Mondary, Manager

FPM:sp

✓cc: Bakersfield file

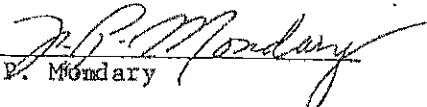
October 8, 1981

State of California  
Division of Oil & Gas  
4800 Stockdale Hwy., Suite 417  
Bakersfield, CA. 93309

Re: R/A S-T logs, Thomas Oil Co.  
Ring 20-3, Ring 13, Union Coffee 5  
and Pearce 7.  
Kern County, California

Please find enclosed captioned logs run on 8-5-81.

Thomas Oil Company

By   
F. P. Mondary

FPM:vs

cc: Well file  
DOG

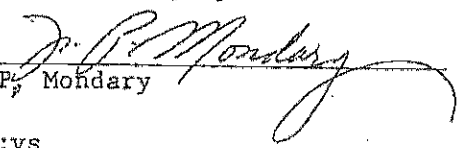
October 8, 1981

United States Geological Survey  
800 Truxtun Avenue  
Bakersfield, CA 93301

Re: R/A S-T log Thomas Oil Co.  
Ring 20-3, Ring 13  
Kern County, California

Please find enclosed captioned log run on 8-5-81.

Thomas Oil Company

By   
F. P. Mondary

FPM:vs

cc: Well file  
DOG

# MACPHERSON

O I L C O M P A N Y

4640 ADMIRALTY WAY, SUITE 525  
MARINA DEL REY, CALIFORNIA 90291  
213 823 7995

P.O. BOX 5368  
BAKERSFIELD, CALIFORNIA 93388  
805 393 3204

December 2, 1982

Minerals Management Service  
800 Truxtun Avenue  
Bakersfield, Ca 93301

Re: R/A Survey logs for  
Ring 18 well #13 & #19  
Ring 20 well #3

Gentlemen:

Please find enclosed captioned logs run on 7/20/82.

Sincerely,

  
Carmen Kipfer  
Office Manager



# MASPHERSON

O I L C O M P A N Y

4640 ADMIRALTY WAY, SUITE 525  
MARINA DEL REY, CALIFORNIA 90291  
213 823 7995

P.O. BOX 5368  
BAKERSFIELD, CALIFORNIA 93388  
805 393 3204

December 2, 1982

State of California  
Division of Oil & Gas  
4800 Stockdale Hwy., Suite 417  
Bakersfield, Ca 93309

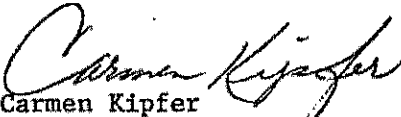
Re: R/A Survey logs for  
Ring 18 well #13 & #19  
Ring 20 well #3

Dear David:

Please find enclosed captioned logs which were run on 7/20/82.

Forgive me for not sending sooner. I have notified the Production Foreman to contact you when logs are to be run again.

Sincerely,

  
Carmen Kipfer  
Office Manager

# MAGPHERSON

O I L C O M P A N Y

4640 ADMIRALTY WAY, SUITE 525  
MARINA DEL REY, CALIFORNIA 90291  
213 823 7995

P.O. BOX 5368  
BAKERSFIELD, CALIFORNIA 93388  
805 393 3204

June 15, 1983

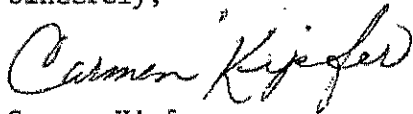
Division of Oil & Gas  
4800 Stockdale Hwy., Suite 417  
Bakersfield, Ca 93309

Re: Injection Profile logs for  
Ring 18-19, Ring 20-3, and  
West Signal 28

Gentlemen:

Please find enclosed captioned logs run on 6/1/83.

Sincerely,



Carmen Kipfer  
Office Manager

# MAGPHERSON

O I L C O M P A N Y

4640 ADMIRALTY WAY, SUITE 525  
MARINA DEL REY, CALIFORNIA 90291  
213 823 7995

P.O. BOX 5368  
BAKERSFIELD, CALIFORNIA 93388  
805 393 3204

June 15, 1983

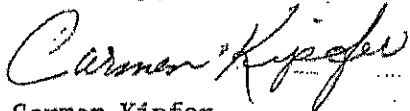
Minerals Management Service  
800 Truxtun Avenue  
Bakersfield, Ca 93301

Re: Injection Profile logs for  
Ring 18-19, Ring 20-3, and  
West Signal 28

Gentlemen:

Please find enclosed captioned logs rung on 6/1/83.

Sincerely,



Carmen Kipfer  
Office Manager

# MASPHERSON

O I L C O M P A N Y

4640 ADMIRALTY WAY, SUITE 525  
MARINA DEL REY, CALIFORNIA 90291  
213 823 7995

P.O. BOX 5368  
BAKERSFIELD, CALIFORNIA 93388  
805 393 3204

June 18, 1984

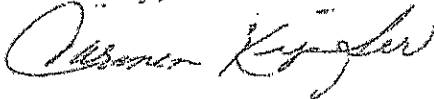
Minerals Management Service  
800 Truxtun Avenue  
Bakersfield, Ca 93301

Re: Injection Profile logs for  
Ring 18-19, Ring 20-3, and  
West Signal #28

Gentlemen:

Enclosed please find captioned logs run on 6/4/84.

Sincerely,



Carmen Kipfer  
Office Manager

# MASPHERSON

O I L C O M P A N Y

4640 ADMIRALTY WAY, SUITE 525  
MARINA DEL REY, CALIFORNIA 90291  
213 823 7995

P.O. BOX 5368  
BAKERSFIELD, CALIFORNIA 93388  
805 393 3204

June 18, 1984

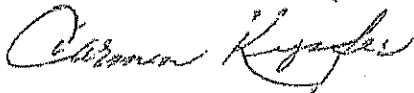
Division Of Oil & Gas  
4800 Stockdale Hwy. Suite 417  
Bakersfield, Ca 93309

Re: Injection Profile logs for  
Ring 18-19, Ring 20=3, and  
West Signal #28

Gentlemen:

Please find enclosed captioned logs run on 6/4/84.

Sincerely,



Carmen Kipfer  
Office Manager

# MAGPHERSON

O I L C O M P A N Y

4676 ADMIRALTY WAY, SUITE 701  
MARINA DEL REY, CALIFORNIA 90292  
213 823 7995

P.O. BOX 5368  
BAKERSFIELD, CALIFORNIA 93388  
805 393 3204

June 27, 1985

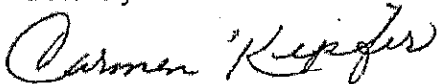
Division of Oil & Gas  
4800 Stockdale Hwy., Suite 417  
Bakersfield, Ca 93309

Re: Injection Profile Logs for  
West Signal #28, Ring 20-3,  
Ring 18-19, Tribe A-14

Gentlemen:

Please find enclosed captioned logs run on 6/13/85.

Sincerely



Ms. Carmen Kipfer

# MAGPHERSON

O I L C O M P A N Y

4676 ADMIRALTY WAY, SUITE 701  
MARINA DEL REY, CALIFORNIA 90292  
213 823 7995

P.O. BOX 5368  
BAKERSFIELD, CALIFORNIA 93388  
805 393 3204

June 27, 1985

Minerals Management Service  
800 Truxtun Avenue  
Bakersfield, Ca 93301

Re: Injection Profile logs for  
West Signal #28, Ring 20-3,  
Ring 18-19, Tribe A-14

Gentlemen:

Please find enclosed captioned logs run on 6/13/85.

Sincerely,

  
Ms. Carmen Kipfer

# MAGPHERSON

O I L C O M P A N Y

2716 OCEAN PARK BOULEVARD, SUITE 3080  
SANTA MONICA, CALIFORNIA 90405  
TEL: 213 452-3880 FAX: 213 452 0058

P.O. BOX 5368  
BAKERSFIELD, CALIFORNIA 93388  
TEL: 805 393 3204 FAX: 805 393 8065

December 1, 1987

Division of Oil and Gas  
4800 Stockdale Hwy,  
Bakersfield, Ca 93309

Re: Water Inj. Survey logs for the,  
the following wells: Ring 18-13,  
Ring 18-19, East Signal #19,  
Tribe A #14, Tribe A #10, Ring #  
20, #3, and Pierce 7-1.

Gentlemen:

Please find enclosed Water Injection Survey Logs for the wells  
listed above.

Thank you,

*Verla Sharp*  
Verla Sharp



# MAGPHERSON

O I L C O M P A N Y

2716 OCEAN PARK BOULEVARD, SUITE 3080  
SANTA MONICA, CALIFORNIA 90405  
TEL: 213 452 3860 FAX: 213 452 0058

P.O. BOX 5368  
BAKERSFIELD, CALIFORNIA 93388  
TEL: 805 393 3204 FAX: 805 393 8065

December 1, 1987

Bureau of Land Management  
800 Truxtun Ave.  
Bakersfield, Ca 93301

Re: Water Inj. Survey logs for the  
the following wells: Ring 18-13,  
Ring 18-19, East Signal #19,  
Tribe A #14, Tribe A #10, Ring 20  
#3, and Pierce 7-1.

Gentlemen:

Please find enclosed Water Injection Survey Logs for the wells  
listed above.

Thank you,

*Verla Sharp*

Verla Sharp

# MAGPHERSON

O I L C O M P A N Y

2716 OCEAN PARK BOULEVARD, SUITE 3080  
SANTA MONICA, CALIFORNIA 90405  
TEL: 213 452 3880 FAX: 213 452 0058

P.O. BOX 5368  
BAKERSFIELD, CALIFORNIA 93388  
TEL: 805 393 3204 FAX: 805 393 8065

June 27, 1989

Division of Oil & Gas  
4800 Stockdale Hwy. #417  
Bakersfield, Ca 93308


Re: Water Injection Survey:

To whom it may concern:

Please find enclosed the Water Injection Survey Logs on wells listed below:

Sec. 18, Ring #16  
Sec. 20, Ring #3  
Bell #18

Sincerely,



Verla Sharp

Enclosures

# MAGPIERSON

O I L C O M P A N Y

2716 OCEAN PARK BOULEVARD, SUITE 3080  
SANTA MONICA, CALIFORNIA 90405  
TEL: 213 452 3880 FAX: 213 452 0058

P.O. BOX 5368  
BAKERSFIELD, CALIFORNIA 93388  
TEL: 805 393 3204 FAX: 805 393 8065

June 27, 1990

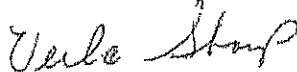
Division of Oil & Gas  
4800 Stockdale Hwy., #417  
Bakersfield, Ca 93309

To whom it concerns:

Please find enclosed the water injection logs for the following leases.

Ring 20 # 8  
Ring 18 #16  
Ring 18 #19  
Olease One #342

Thank you,



Verla Sharp  
Production Clerk

# MASPIERSON

O I L C O M P A N Y

2716 OCEAN PARK BOULEVARD, SUITE 3080  
SANTA MONICA, CALIFORNIA 90405  
TEL: 213 452 3880 FAX: 213 452 0058

P.O. BOX 5368  
BAKERSFIELD, CALIFORNIA 93388  
TEL: 805 393 3204 FAX: 805 393 8065

June 27, 1990

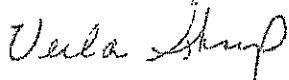
Bureau of Land Management  
4301 Rosedale Highway  
Bakersfield, Ca 93308

To whom it concerns:

Please find enclosed the water injection logs for the following leases.

Ring 20	# 3
Ring 18	# 18
Ring 18	# 18

Thank you,



Verla Sharp  
Production Clerk

# MAGPHERSON

O I L C O M P A N Y

P.O. BOX 5368  
BAKERSFIELD, CALIFORNIA 93388  
TEL: 805 393 3204 FAX: 805 393 8065

2716 OCEAN PARK BOULEVARD, SUITE 3080  
SANTA MONICA, CALIFORNIA 90405  
TEL: 213 452 3880 FAX: 213 452 0058

October 22, 1992

Bureau of Land Management  
4301 Rosedale Highway  
Bakersfield, Ca 93308

Re: Water Injection Survey

To whom it may concern:

Please find enclosed the Water Injection Survey Logs on well listed below.

Ring 20 #3  
Bishop #6  
Malta #3  
USL 18 WD#1

Thank you,

Verla Sharp

# MAGPHERSON

O I L C O M P A N Y

P.O. BOX 5368  
BAKERSFIELD, CALIFORNIA 93388  
TEL: 805 393 3204 FAX: 805 393 8065

2716 OCEAN PARK BOULEVARD, SUITE 3080  
SANTA MONICA, CALIFORNIA 90405  
TEL: 213 452 3880 FAX: 213 452 0058

July 29, 1991

Bureau of Land Management  
4301 Rosedale Highway  
Bakersfield, Ca 93308

Re: Water Injection Survey

To whom it may concern:

Please find enclosed the Water Injection Survey Logs on well listed below.

Freeman #100	Ring 18 #16
Olcese WD #342	Ring 18 #19
Olcese WD #343	Ring 20 #3
USL WD #1	

Thank you,



Verla Sharp

# WATERBURY

O I L C O M P A N Y

POST OFFICE BOX 5368  
BAKERSFIELD, CALIFORNIA 93388-5368  
TEL 661 393 3204 FAX 661 393 8065

2716 OCEAN PARK BOULEVARD, SUITE 3080  
SANTA MONICA, CALIFORNIA 90405-5208  
TEL 310 452 3980 FAX 310 452 0058

April 1, 2003

Division of Oil & Gas  
4800 Stockdale Hwy #417  
Bakersfield, CA 93309

Re: Water Injection Survey

To whom it may concern:

Please find enclosed the Water Injection Survey Logs on well  
listed below.

Ring 20 #3  
West Signal #8  
Coffee #5  
Pearce #7-1

Thank you,

*Verla Sharp*  
Verla Sharp

# WATERBURY

O I L C O M P A N Y

POST OFFICE BOX 3968  
BAKERSFIELD, CALIFORNIA 93398-6568  
TEL 861 993 3204 FAX 861 393 8065

2716 OCEAN PARK BOULEVARD, SUITE 3080  
SANTA MONICA, CALIFORNIA 90405-6208  
TEL 310 452 3980 FAX 310 452 0058

April 4, 2002

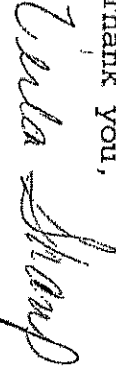
Division of Oil & Gas  
4800 Stockdale Hwy #417  
Bakersfield, CA 93309

Re: Water Injection Survey

To whom it may concern:

Please find enclosed the Water Injection Survey Logs on well  
listed below.

Ring 20 #3  
West Signal #8  
Pearce #7-1

Thank you,  
  
Verla Sharp



MACPHERSON OIL COMPANY, MPCC RING 20 LEASE; WELL # 3 WATER DISPOSAL WELL 1974

SECTION 20, T 27 S, R 28 E; API # 029-14064

below 920'

WELL DRILLED 1948; DIAGRAM PREPARED 4/91 (RT)

ELEV. KB 949'; GL 941'

CONDUCTOR: \_\_\_\_\_

HOLE SIZE 10 3/4" 2272'; 11" 2317'

SURFACE CASING 7" 17# 20# 2272'

CASING \_\_\_\_\_

PERFS IN CSG. 2 1/2" HRF. 920'/1130' (1974)

LINER 5 1/2" 17# 2227'/2316'

LINER SLOTS 2261'/2316' 80M

CEMENT BEHIND PIPE: \_\_\_\_\_

7" VOLUME 800 SACKS, DATE 1948

CEMENT TOP ± 1300'

VOLUME \_\_\_\_\_, DATE \_\_\_\_\_

CEMENT TOP \_\_\_\_\_

CEMENT PLUG(S) ± 2100'/2316' (1955)

IN/AB PLUG(S) ± 1130' (1974)

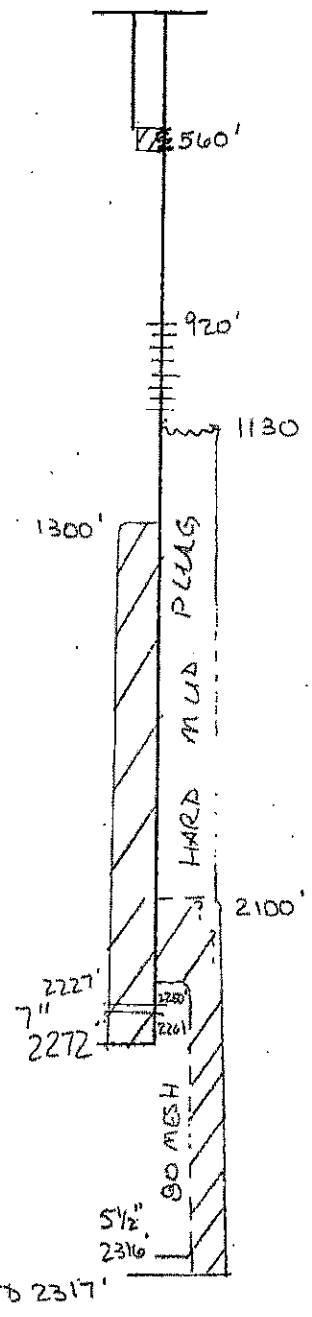
CASING HOLES 1050-DK 4 1/2" HOLES 2250' (1948)

CEMENT SQUEEZED 550'-560' 168 SX G + CCL

CASING HOLES \_\_\_\_\_

CEMENT SQUEEZED \_\_\_\_\_

BASE FRESH WATER-- NONE



W.D. 1211

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  Gas well  other

2. NAME OF OPERATOR  
Thomas Oil Co

3. ADDRESS OF OPERATOR  
P.O. Box 5368 Oildale CA 93308

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 2320'S. 4600'E 1/4 NW COR SEC 20  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input checked="" type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <input type="checkbox"/>	<input type="checkbox"/>

5. LEASE King (SAC. 044136)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
0

7. UNIT AGREEMENT NAME  
0

8. FARM OR LEASE NAME  
KING

9. WELL NO.  
KING 20-31

10. FIELD OR WILDCAT NAME  
West Mt. Poso

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
20 T. 27S. R. 28E. M. 4E. 71

12. COUNTY OR PARISH  
KERN

13. STATE  
CA

14. API NO.  
029-14064

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
949 KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

NOTE CONVERTED TO W.D.W. IN OILCASE SD.

- ① OVERLAY PERFORATE 4-1/2" H.F. 970'-1050'
- ② JET 4-1/2" H.F. 1050'-1203' (NEW)

Subsurface Safety Valve: Manu. and Type 0 Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Armondary TITLE MR. AGENT DATE 4-13-81

APPROVED BY J. P. Wagner TITLE Dist. SUPERVISOR DATE 4-13-81  
CONDITIONS OF APPROVAL, IF ANY J. P. Wagner (VERBAL APPROVAL)

cc: DOG, Bakersfield



9-2-52 Thee Talley

FB	8.00
AS	10.25
McLure	
W.P.	
Camp	
1.	62.84
2.	61.66
3.	61.99
4.	62.71
5.	63.04
6.	61.36
7.	63.00
8.	62.20
9.	62.82
10.	62.88
11.	62.10
12.	62.52
13.	62.20
14.	51.72 2 1/2 EOE
	961.29

D.T. # 00709

# WELL OILFIELD SPECIALT ES INC.

## PUMP REPORT

CUSTOMER Thomas Oil Company DATE 5-24-73  
 RIG NO. \_\_\_\_\_ WELL NO West Pass Sec 20 # 3  
 API TYPE THEM SIZE 2 1/2 X 2 1/2 X 9 X 11 X 13 PUMP NO. \_\_\_\_\_  
 TYPE BARREL CID TYPE PLUNGER Spray Metal FIT 0-3  
 VALVES: SGL X CAL X MATERIAL Stainless Steel HOLDDOWN 2 1/2" API #1  
 DBL \_\_\_\_\_ API \_\_\_\_\_ MAX. STROKE \_\_\_\_\_

QTY	PART #	DISCRIPTION	CONDITION	PRICE
1	1180M3108	BARREL <u>2 1/2 X 9'</u>	<u>Corrosion - Scored</u>	216.00
1	386M14048	PLUNGER	<u>Grooved full length</u>	170.30
		TRAVELING VALVE		
1		<u>Raised</u> CAGE	<u>Beat out</u>	51.00
		BALL & SEAT	<u>Reversed</u>	
		STANDING VALVE		
		CAGE	<u>OK</u>	
		BALL & SEAT	<u>Reversed</u>	
		HOLDDOWN	<u>OK</u>	
1	<u>Refinished</u>	SHOE		
1		<u>Refinished lower nipple w/new threads</u>	<u>600</u>	
		<u>2 1/2" 8RD X 2 1/2" 11 1/2 U Reg X 24"</u>		

REMARKS Hole in lower nipple  
Electrolytic Corrosion on lower  
Part of Shoe -

TOTAL PARTS 292.45  
 SALES TAX 14.62  
 SERVICE CHG 12.00  
 TOTAL 319.07  
 REPAIRED BY G. S. H.

10-26-73- Change Polish Rod New Ann Pack  
Marta #6 - Change Packing Gland +  
Pack Bishop #8 - Change Packing @  
Bishop #4 Change Production Tee  
+ Packing @ Bishop #3 Tighten V-Beits  
@ Ring - 14-10 Change V-Beits 3-C-128  
@ Ring sec 20 West Poso

10-27-73- Repair Power @ Maxwell-A-7  
Thomas #4 Caldwell #30 Power Box @  
North Round Mountain D-Wh-

10-28-73- Fish out Parted Rods @ Coldwell  
#24 Move Rig to Manacopa

10-29-73- Pull  $3\frac{1}{4}$ " Rods +  $2\frac{7}{8}$ " Tubing + Ball  
Hoyt #9

10-30-73- Run Tubing + Rods @ Hoyt #2  
Hole in Tubing 50 STS DOWN Change Pump  
Change 23 STS  $3\frac{1}{4}$ " Rods + One Joint  $2\frac{7}{8}$ "  
Clean up Well Locations

PUMPING   
 FLOWING  (Check)  
 GAS LIFT

# PRODUCTION CREW TOUR REPORT

11 West  
 LEASE OR SECTION NO. 3  
 DATE 5-6-75  
 WELL 1975

EQUIPMENT	BEFORE PULLING				AFTER PULLING				BAILING RECORD							
	SIZE	7/8"	3/4"	5/8"	JOINTS PER STAND	1"	7/8"	3/4"		5/8"	SIZE & MAKE OF BAILER	FROM	TO	FLUID LEVEL	MATERIAL BAILED	
RODS																
NO. STANDS																
MAKE																
TYPE																
PUMP																
MAKE																
TYPE																
NO. SIZE & Pkg. Dia. & Pump Lgth.																
SIZE (Upper or Plain)																
MAKE																
NO. STANDS																
JOINTS PER STAND																
RANGE																
TUBING																
TOTAL LGTH																
ANCHOR																
MAKE																
TYPE																
STANDS UP																
PUMP JACKET OR SHOE																
(NOM. SIZE X MAKE)																
GAS ANCHOR																
(MAKE - DIA. - LENGTH)																
(MAKE - DIA. - LENGTH)																
REASON FOR PULLING																
WELL WENT OFF PRODUCTION	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		A.M.		P.M.	
WELL PUT ON PRODUCTION	A.M.		P.M.		A.M.		P.M.		A.M.		P.M.		A.M.		P.M.	
STROKES PER MINUTE	LENGTH OF STROKE		HOLE OF CRANK		HOURS WORKED AT WELL		HEAD WELL PULLER		DAYLIGHT TOUR		REMARKS					
<p>REMARKS: Repair design of Standwell...                  To well floor...                  For...                  ...</p>																

HOURS WORKED AT WELL \_\_\_\_\_ HEAD WELL PULLER \_\_\_\_\_  
 DAYLIGHT TOUR \_\_\_\_\_  
 REMARKS \_\_\_\_\_  
 HOURS WORKED AT WELL \_\_\_\_\_ HEAD WELL PULLER \_\_\_\_\_  
 AFTERNOON TOUR \_\_\_\_\_  
 REMARKS \_\_\_\_\_

W. A. C. B. 11

**Drilling - Completion - Workover Log**

Unit or lease <i>Block 20<sup>02</sup></i>	Well number	Date <i>8-25-92</i>
Field <i>WEST MT. SLO</i>	District	
County or parish <i>W. Va.</i>	Province or state	
Contractor <i>F. B. de P... ..</i>		
Auth. or W.O. No. <i>28985</i>	Title	

*20" 28985*  
*8-25-92* Packed w/ mud, pulled thru. 12:10 AM job with 7" x 7" Scribner & Ruppert Sub, P.O. # 28997, P.O. # 3750.  
 Tbg 2 1/2" EUE 20 JTS. W' FT 290' Packer cups torn 2 3/4" inner seal collar + 1" cup inside hole in collar, pulled w/ 2 3/4" pipe bottom hole.  
 Tbg: off.  
 Packed up 3 3/4" Bailor Tag & cup @ 140' - www. Through Tag & fill at 900'. Railed to 1012' with making hole. Last downed Bailor P.O. # 3750 P.O. # 28997 - Roof installed above w/ 7" x 7" Ball collar 2" x 2 3/4" TRIPLEX collars + 2-7" 17-23" EUE cups look. down.  
 Ran in hole added 2-5 JTS 3/4 EUE SET bottom EUE AT 930' TOA Cup @ 930'.  
 Pushed EUE up to top of fill with SWAMP. Next time well is pulled may have to use whole bottom bailor to brush it up, or a swab spear.

Quantity	DATE	COST	P.O.#	DATE	COST	DATE	COST
Pack	8-25	1740. <sup>99</sup>	28985				
P.O.	8-25	320. <sup>00</sup>	28997				
Ex. Embury	8-25	166. <sup>99</sup>	28997				

Tagged Rod shot with swapper @ 520', worked through ran swapper to 1009'. Packed swapper out of hole, laid down 5 JTS 2 3/4" Tbg + swapper made up EUE cups + inner seal w/ 2 3/4" pipe, ran out 20 JTS 2 3/4 EUE 883.118

28 JTS 3/4 EUE = 874.98  
 EUE cup + 2 3/4 P.O. + Ball collar, 2 3/4 x 2 3/4 x 6.00  
 3 3/4 10' up x 2 3/4 8' up = 110  
 TOTAL = 883.98 with out *MR*  
 cups looking down

Joints	Feet	Weight	Grade	Thread	Class	Size O.D. casing	Time summary
KB 20				3/4" 2 3/4		Shoe	Day work
KB 28	224.98					Set joint	Hours w/dp
KB	8.00					Collar	Hours wo/dp
Pipe				2 3/4 8' RD		Joints pipe	Hours standby
CUPS	7.25	4-				Total	
X-wrap						Rkb to	
						Depth set	Total day work
						Signed	

AR3B-228-F

Tbg. Tally on Back



1 62.84  
2 61.66  
3 61.99  
4 62.71  
5 63.04  
6 61.36  
7 62.00  
8 61.20  
9 62.82  
10 62.88

11 62.10  
12 63.02  
13 62.10  
14 63.06

6774.52

15 8.00  
16 2.55  
17  
18

(D)

# WELLS OILFIELD SPECIALTIES INC.

## PUMP REPORT

19663

CUSTOMER Thomas Oil DATE 6-18-75  
 RIG NO. \_\_\_\_\_ WELL NO. Sec. 20 #3  
 API TYPE THM SIZE 2 1/2" x 2 1/4" x 48" x 9' x \_\_\_\_\_ x \_\_\_\_\_ PUMP NO. \_\_\_\_\_  
 TYPE BARREL H/H TYPE PLUNGER C.P. 9/E FIT -2  
 VALVES: SGL  CAL  MATERIAL SS HOLDDOWN API 9/8  
 DBL \_\_\_\_\_ API \_\_\_\_\_ MAX. STROKE \_\_\_\_\_

QTY	PART #	DISCRIPTION	CONDITION	PRICE
1	M5095-9'	BARREL	Pitted + worn	250.10
1	MX265-4'	PLUNGER	worn	258.40
		TRAVELING VALVE		
1	MX70	CAGE	Best Out	25.75
1	M412	BALL & SEAT	worn	15.20
		STANDING VALVE		
1	M5451	CAGE	Best Out	13.52
		BALL & SEAT	Lapped	565.47
		HOLDDOWN	OK	
		SHOE	OK	
			-20/10/10	

REMARKS C/S TOTAL PARTS 366.42  
 SALES TAX 21.89  
 SERVICE CHG 12.00  
 TOTAL 400.41  
 REPAIRED BY \_\_\_\_\_

9400  
2700

PRODUCTION DATA INC.  
TRACER SURVEY

PART 1

WELL NO 20-3 P102

PAGE 2

TOOL SIZE 1 3/8 SPACING 9.8 FT. (Injector to Detector)

TIME OF DAY	NO.	PIPE SIZE	FACTOR	DEPTH		DISTANCE/TIME	RATE - B/D	
	1	7"	3404	900	900/910	<del>10/12</del>	<del>2839</del>	
	2	15" RUNNING SLUG WAIT @ 910'						
	3			910				
			LOG DOWN	910 - 1050				
			LOG UP	1050 - 400				
		OFF LOGGING RUN 10 17 - 39					<del>23/54</del>	<del>1387</del>
	4	7"	3404	670	670/80	<del>10/12.5</del>	<del>2723</del>	
	5			650	UT 69 ✓	SLUG OUT 10Y		
					WAIT			
	6			640	UT 09 ✓	SLUG OUT 10Y		
					LOG DOWN 640 - 825			
	7		500	450	450 - 650	<del>200/51.5</del>	<del>2985</del>	
	8	30 sec RUNNING WAIT @ 900'						
					LOG UP 900 -			

PART 2

	1			640	SLUG OUT WAIT			
					LOG DOWN 640 - 775			
	2	7"	3404	800	800 - 825	<del>25/25</del>	<del>6546</del>	
	3	30 sec RUNNING SLUG WAIT @ 900' SLUG MOVING UP						
					LOG UP 900 - 450			
	4	RUNNING SLUG OUT WAIT @ 975						
					LOG UP 975 - 500	170 sec /	464 Sec	
					LOG UP 1000 - 500	590 /	895 Sec	
	5	30 sec RUNNING SLUG WAIT @ 950 SLUG MOVING UP						
					LOG UP 950 -	300 /		

PUMPING   
 FLOWING  (Check)  
 GAS LIFT

# PRODUCTION CREW TOUR REPORT

See 203 Line 8  
 DATE 12-14 1982  
 NO. 214  
 WELLS 82

EQUIPMENT	BEFORE PULLING				AFTER PULLING				
	SIZE	7'-0"	3'-4"	5'-8"	JOINTS PER STAND	1"	7'-8"	3'-4"	5'-8"
RODS									
NO. STANDS					30				
MARK					4" x 2 1/2" x 4 1/2" x 20'				
MAKE									
TYPE									
PUMP									
MARK									
NO. STANDS					4"				
JOINTS PER STAND					28				
RANGE					2				
TUBING									
MARK									
NO. STANDS									
JOINTS PER STAND									
RANGE									
TOTAL EST.									
ANCHOR									
MARK									
TYPE									
STANDS UP									
PUMP JACKET OR SHOF									
GAS ANCHOR									

REASON FOR PULLING	BAILING RECORD	
	FROM	TO
WELL WENT OFF PRODUCTION		
WELL PUT ON PRODUCTION		

REMARKS: Finished running well on. See 20 3A well pump up. Rig down moving rig to shop. Ran Hunt Stop us. we went with Pan Hunt to Ren's well on. Bill Steers. Come By. And left Jerry and Hardy. Hours worked at well 8. HEAD WELL PULLER Delbert Clinton. AFTERNOON TOUR

REMARKS: There. To Hole Pan Run To Rin wells Delbert went on get Rig. Move Rig To Yard. Took Hydraulic pump off Rig. Bill Steers Took Hydraulic Pump in to have it checked out.

WELL WENT OFF PRODUCTION \_\_\_\_\_ A.M. \_\_\_\_\_ P.M. \_\_\_\_\_ 19 \_\_\_\_

WELL PUT ON PRODUCTION \_\_\_\_\_ A.M. \_\_\_\_\_ P.M. \_\_\_\_\_ 19 \_\_\_\_





Flowing  (C-94)  
Gas Lift

PRODUCTION CREW TOUR REPORT

See 20  
DATE: 6-24-1981

FD 100 (Rev. 11-69)

EQUIPMENT	RETRO-PULLING				CABLE PULLING			
	SIZE	WIRE T.C. (IN)	STANDS	POINT TO POINT STANDS	TYPE	WIRE T.C. (IN)	STANDS	POINT TO POINT STANDS
BOOR								
MADE								
NO. STANDS								
PUMP								
MARK								
TYPE								
MARK								
NO. STANDS								
POINTS PER STAND								
DAMAGE								
TOTAL LGTH								
ANCHOR								
MAKE								
TYPE								
STANDS UP								
PUMP JACKET OR BRGS								
GAB ANCHORS								

REASON FOR PULLING \_\_\_\_\_

WELL WENT OFF PRODUCTION \_\_\_\_\_

WELL PUT ON PRODUCTION \_\_\_\_\_

REMARKS	BAILING RECORD		FLUID LEVEL	MATERIAL OBTAINED
	SIZE & MAKE OF BASKET	FROM TO		
HOURS WORKED AT WELL _____				
HEAD WELL PULLER _____				
AFTERNOON TOUR				
REMARKS				
HOURS WORKED AT WELL _____				
HEAD WELL PULLER _____				
DAYLIGHT TOUR				
REMARKS				

REMARKS Made in Rig up. Takes to Tow  
3 out of top of well run filler run  
Sand at 1108 FT to 2" to 3" Swedge Back  
in well went to Road Clean on Tool-Ton

A.M. \_\_\_\_\_ P.M. \_\_\_\_\_

DATE \_\_\_\_\_ 1981





PUMPING   
 FLOWING  (Check)  
 GAS LIFT

# PRODUCTION CREW TOUR REPORT

Well No. 20 No. 3  
 LEASE OR SECTION 20 WELL 3  
 DATE 6-17 1925

EQUIPMENT	BEFORE PULLING				AFTER PULLING				BAILING RECORD					
	SIZE	7/8"	3/4"	5/8"	JOINTS PER STAND	1"	7/8"	3/4"		5/8"	SIZE & MAKE OF BAILER	FROM	TO	FLUID LEVEL
NO. STANDS MAKE MARK TYPE Norm. Size & Plat. Dia. & Pump Lgth.														
ANCHOR TYPE STANDS UP														
TUBING TOTAL LGTH RANGE JOINTS PER STAND MARK NO. STANDS														
PUMP JACKET OR SMOKE (NOM. SIZE X MAKE)														
GAS ANCHOR (MAKE - DIA. - LENGTH)														
REASON FOR PULLING										BAILING RECORD MORNING TOUR REMARKS <i>Service by...</i> REMARKS <i>One of the... 30...</i> REMARKS <i>...</i>				
WELL WENT OFF PRODUCTION										HOURS WORKED AT WELL HEAD WELL PULLER DAYLIGHT TOUR				
WELL PUT ON PRODUCTION										HOURS WORKED AT WELL HEAD WELL PULLER AFTERNOON TOUR				
STROKES PER MINUTE										HOURS WORKED AT WELL HEAD WELL PULLER				

PUMPING   
 FLOWING  (check)  
 GAS LIFT

# PRODUCTION CREW TOUR REPORT

WELL NO. 3  
 LEASE OR SECTION 20  
 DATE 5-19-50  
 1950

EQUIPMENT	BEFORE PULLING				AFTER PULLING				BAILING RECORD					
	SIZE	7/8"	3/4"	5/8"	JOINTS PER STAND	1"	7/8"	3/4"		5/8"	SIZE & MAKE OF BAILER	FROM	TO	FLUID LEVEL
RODS														
NO. STANDS														
MAKE														
NO. STANDS														
MAKE														
TYPE														
NO. STANDS														
JOINTS PER STAND														
RANGE														
TOTAL LGTH														
MARKS														
ANCHOR														
TYPE														
STANDS UP														
PUMP JACKET OR SHOE														
GAS ANCHOR														
REASON FOR PULLING	(MAKE - DIA. - LENGTH) (MAKE - DIA. - LENGTH)													
WELL WENT OFF PRODUCTION	A.M. _____ P.M. _____													
WELL PUT ON PRODUCTION	A.M. _____ P.M. _____													
STROKES PER MINUTE	LENGTH OF STROKE _____ HOLE OF CRANK _____													
HOURS WORKED AT WELL	HEAD WELL PULLER _____ DAYLIGHT TOUR _____													
REMARKS	HEAD WELL PULLER _____ AFTERNOON TOUR _____													

REMARKS *Made up last haul. 1" Johnson bailed. J. W. Ruppel driver. Made to W.P. [Signature]*

REMARKS *Flow good*

HOURS WORKED AT WELL \_\_\_\_\_ HEAD WELL PULLER *B.S. [Signature]*



PUMPING   
 FLOWING  (Check)  
 GAS LIFT

# PRODUCTION CREW TOUR REPORT

Wendy Price 30  
 LEASE OR SECTION  
 DATE 5-8-80 NO. WELL 1975

EQUIPMENT	BEFORE PULLING				AFTER PULLING				
	SIZE	7/8"	3/4"	5/8"	JOINTS PER STAND	1"	7/8"	3/4"	5/8"
RODS	MAKE								
NO. STANDS									
BUMP	MAKE								
TYPE									
TUBING									
SIZE (Upper or Plain)									
MAKE									
NO. STANDS									
JOINTS PER STAND									
RANGE									
TOTAL LGTH									
ANCHOR									
MAKE									
TYPE									
STANDS UP									
PUMP JACKET OR SMOG									
	(NOM. SIZE X MAKE)								
GAS ANCHOR									
	(MAKE - DIA. - LENGTH)								

REASON FOR PULLING	BAILING RECORD				
	SIZE & MAKE OF BAILER	FROM	TO	FLUID LEVEL	MATERIAL BAILED
WELL WENT OFF PRODUCTION					
WELL PUT ON PRODUCTION					
STROKES PER MINUTE					
LENGTH OF STROKE					
HOLE OF CRANK					

REMARKS: 15 gal. production. 1" Brown. Stopping at 4:15. 1" Brown. Production wellhead 12:00. 1" Brown. Production wellhead 12:00. 1" Brown. Production wellhead 12:00.

HOURS WORKED AT WELL: \_\_\_\_\_ HEAD WELL PULLER: \_\_\_\_\_ DAYLIGHT TOUR: \_\_\_\_\_

REMARKS: \_\_\_\_\_

HOURS WORKED AT WELL: \_\_\_\_\_ HEAD WELL PULLER: \_\_\_\_\_ AFTERNOON TOUR: \_\_\_\_\_

REMARKS: \_\_\_\_\_

# PRODUCTION CREW TOUR REPORT

W. Lee Jones 20  
 LEASE OR SECTION NO. 13  
 DATE 5-18-1975 WELL

PUMPING   
 FLOWING  (Check)  
 GAS LIFT

EQUIPMENT	BEFORE PULLING				AFTER PULLING				BAILING RECORD					
	SIZE	7/8"	3/4"	5/8"	JOINTS PER STAND	1"	7/8"	3/4"		5/8"	SIZE & MAKE OF BAILER	FROM	TO	FLUID LEVEL
RODS														
NO. STANDS														
MAKE														
TYPE														
MAKE														
SIZE (Upset or Plain)														
NO. STANDS														
JOINTS PER STAND														
RANGE														
TUBING	TOTAL LGTH													
MAKE														
TYPE														
ANCHOR	STANDS UP													
PUMP JACKET OR SHOE	(NOM. SIZE X MAKE)													
GAS ANCHOR	(MAKE - DIA. - LENGTH)													
REASON FOR PULLING _____														
WELL WENT OFF PRODUCTION _____ A.M. _____ P.M. _____														
WELL PUT ON PRODUCTION _____ A.M. _____ P.M. _____														
STROKES PER MINUTE _____ LENGTH OF STROKE _____ HOLE OF CRANK _____														
REMARKS _____														
HOURS WORKED AT WELL _____ HEAD WELL PULLER _____ DAYLIGHT TOUR _____														
REMARKS _____														
HOURS WORKED AT WELL _____ HEAD WELL PULLER _____ AFTERNOON TOUR _____														
REMARKS _____														
HOURS WORKED AT WELL _____ HEAD WELL PULLER _____														
REMARKS _____														

REMARKS 3 1/2 BBLs ... 18 hrs. ...  
 2 1/2 day.

*Tommy*  
*Paul*  
*Bill*

*[Signature]*

# PRODUCTION CREW TOUR REPORT

PUMPING   
 FLOWING  (Check)  
 GAS LIFT

WELL No. 3  
 LEASE OR SECTION 20  
 DATE 5-2 1920

EQUIPMENT	BEFORE PULLING				AFTER PULLING				BAILING RECORD					
	SIZE	7/8"	3/4"	5/8"	JOINTS PER STAND	1"	7/8"	3/4"		5/8"	SIZE & MAKE OF BULLER	FROM	TO	FLUID LEVEL
RODS														
NO. STANDS														
MAKE														
TYPE														
MAKE														
SIZE (Upper or Plain)														
MAKE														
NO. STANDS														
JOINTS PER STAND														
RANGE														
TOTAL LGTH														
ANCHOR														
STANDS UP														
MAKE														
TYPE														
PUMP JACKET OR SMOE														
(NOM. SIZE X MAKE)														
GAS ANCHOR														
(MAKE - DIA. - LENGTH)														
REASON FOR PULLING _____														
WELL WENT OFF PRODUCTION _____ A.M. _____ P.M. _____ 19 _____														
WELL PUT ON PRODUCTION _____ A.M. _____ P.M. _____ 19 _____														
STROKES PER MINUTE _____ LENGTH OF STROKE _____ HOLE OF CRANK _____														
HOURS WORKED AT WELL _____ HEAD WELL PULLER _____ DAYLIGHT TOUR _____														
REMARKS _____														
HOURS WORKED AT WELL _____ HEAD WELL PULLER _____ AFTERNOON TOUR _____														
REMARKS _____														
HOURS WORKED AT WELL _____ HEAD WELL PULLER _____														
REMARKS _____														

REMARKS *1130 Start pulling 1100 B*

MORNING TOUR

*1130 Start pulling 1100 B*

DAYLIGHT TOUR

AFTERNOON TOUR

File  
Addenda Ring 20-3

9-15-77

(13 days to BREAK OUT  $\pm$  3%)

- FRIDAY 1. Rig up equipment for cement speccing, drilling out (either rotating head or rotary table) pump tank & SHAKER TABLE.
- MONDAY 2. TAG Fillerplug reported at 575'. Run in 7" PKR & break down hole(s) at 575-578. at approx 1-2 BM rate. Fluid may be around 7". Dump in 505x GLASS & premixed with 3% Calcium Chloride mixer approx 6 gal per sack cement. Breaker head squeeze away with 10 bbls water and hold pressure. Shut in until TUESDAY A.M.
- TUESDAY 3. Rig up 6 1/4" TRicone bit and load w/ 2 drill collars. Drill out cement with fluid returns over shaker table. Drill out cement to 580 KB. TEST CASING AT 300# 15 MIN. D.O.G & MONDAY TO WITNESS. IF OK. DRILL OUT PLUG TO 800 KB. IF NOT O.K. RESQUEZ
- WEDNESDAY 4. DRILL OUT PLUG TO 800' KB. Shoot 4 - 1/2" Hole 795-796.
- THURSDAY 5. Run in w/ 7" PKR & SET AT 700' BREAK DOWN RATE AT 1 1/2 BM RATE.

Thursday 5

Mix & displace 50 SX GLASS & cement  
pretreated w/ 3% Calcium chloride  
Displace with 40 cu ft water  
PULL OUT & CLOSE IN

Friday 6

Run in w/ 6 1/4" bit & drill string  
and drill out to 800'. TEST  
CASING 300# 15 min. DOG TO WITHDRAW  
and MONDAY IF OK DRILL OUT & CO  
to bottom. NOT OVER 250# pump  
pressure. 6 days to break over  
OR WILL ACIDRE.

Monday 9-N-77

cc L.C. Fiederer  
J. Peasey  
G. Skitts



DATE 6-25-81

WELL 20-3' W.D.W.

7 am REPORT

FIELD W. Mt. P.

REPORT OF WORK DONE: Shut at 580'

Tag bottom 1108' - bad to 1112'  
solid silt - then got stuck +  
found cement in boiler from  
apparently casing wall - dropped  
through bridge + bailed into  
mud plug to 1147' - hooked up  
Grayson wireline tractors shoot  
perforations -

Grayson tag bottom at 1125'  
shot first gun at 1080-1070'  
1. 1080-1070 = all parts blown out  
in hole except 2 which shot good.

2. 1050-1040 - no fire - recammeter  
checking + no fire -  
checked out continuously - possible shorting  
out in truck - could not find short.  
Put well back on injection.

RIG OPERATOR: Ron Hunt

PUSHER: Bill

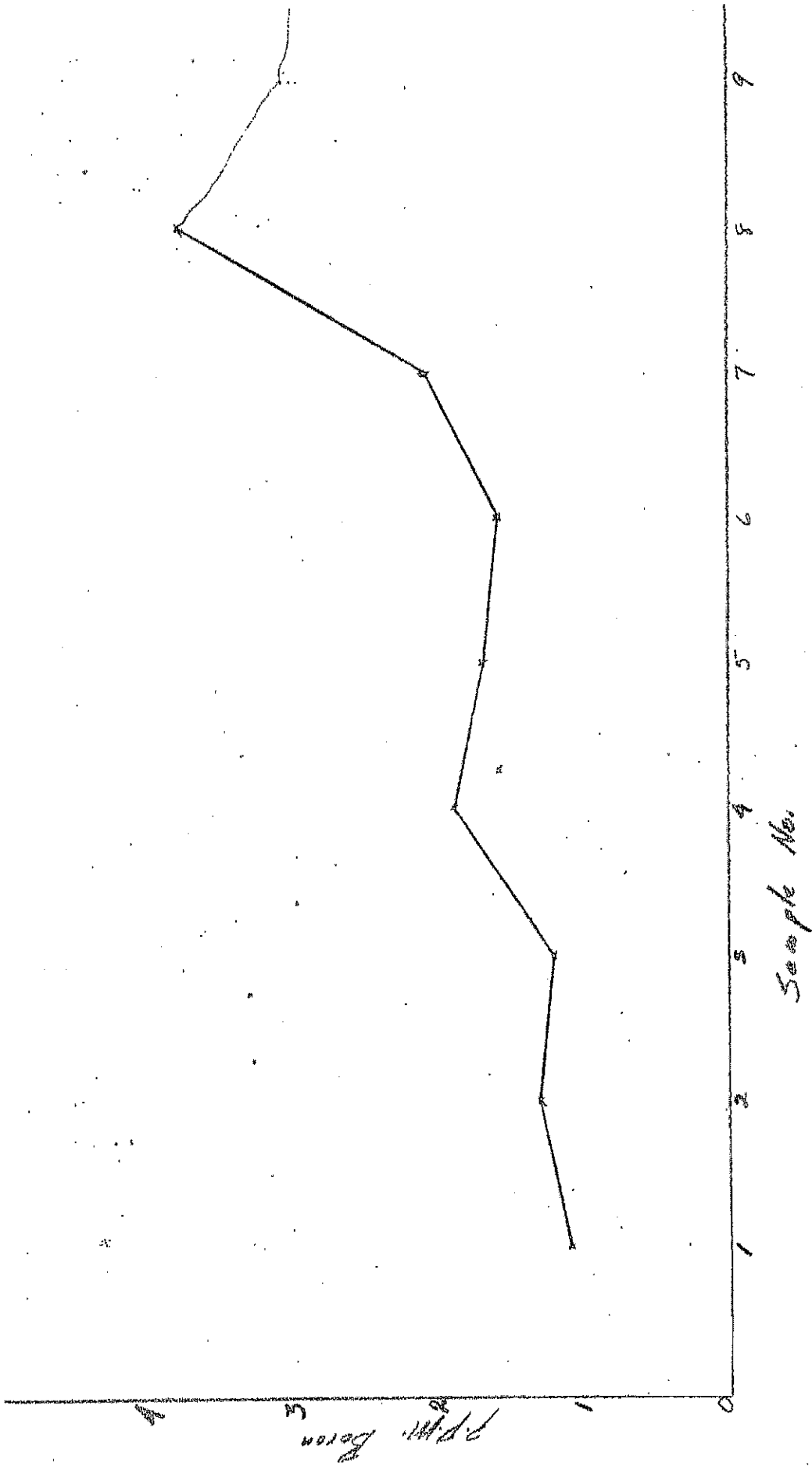
Signed \_\_\_\_\_

Questions for Frank Mowbray

1. Do we have approval from U.S.G.S.?
2. Summary from B.C. Lab is deficient as follows:
  - a. Dates of samples 1, 2, 6, 7 and lost one listed from 1000 feet.
  - b. No recording of 2nd sample showing Baran in excess of 3 ppm.
3. What age are the beds which over by the Olcese?

Jeanie

Please make folder for this  
under Thomas Oil Co  
Well No "Ring 20" 3



comps...  $\Phi$  " Ring-20 see #3  
2320's 600's for Nucor see 20

all work as received Buckleup.  
in 7" coil  
2320's & 600's for Nucor see 20

On 18 1948 Camp 6928 1948  
17' just on  
by 2250' e-coil

-6-48 ~~2250's~~  
5 L P 15 16 @ 1.09 / u.s. 7" @ 2250'

2272 17-20" Nucor 10 10 1/2" 6/300's

2316-2227 17" Nucor 10 11" beds

Physic 80% 26 down to standard shape  
2261-2312

bulldozed Burn Co - near 4/20/48

Shed 5% 2301-2302 7 8-1/2"  
beds 2278-2280

Plunged in 150's Clean 6 + 29  
at 200 1x Clean 6

ATTACHMENT G

Injection Volume Spreadsheet

**Macpherson**  
**Ring 20 #3 WD, API 029-14604**  
**Mt Poso Oil Field**

<b>DATE</b>	<b>WATER, BBLs</b>
April-14	0
March-14	0
February-14	0
January-14	0
December-13	0
November-13	0
October-13	0
September-13	0
August-13	0
July-13	0
June-13	0
May-13	0
April-13	0
March-13	0
February-13	0
January-13	0
December-12	0
November-12	0
October-12	0
September-12	0
August-12	0
July-12	0
June-12	0
May-12	0
April-12	0
March-12	0
February-12	0
January-12	0
December-11	0
November-11	0
October-11	0
September-11	0
August-11	0
July-11	0
June-11	0
May-11	0
April-11	0
March-11	0
February-11	0
January-11	0
November-10	0
October-10	0
September-10	0
August-10	0
July-10	0

**Macpherson**  
**Ring 20 #3 WD, API 029-14604**  
**Mt Poso Oil Field**

<b>DATE</b>	<b>WATER, BBLs</b>
June-10	0
May-10	0
April-10	0
March-10	0
February-10	0
January-10	0
December-09	0
November-09	0
October-09	0
September-09	0
August-09	0
July-09	0
June-09	0
May-09	0
April-09	0
March-09	0
February-09	0
January-09	0
December-08	0
November-08	0
October-08	0
September-08	0
August-08	4568
July-08	0
June-08	56510
May-08	23230
April-08	49100
March-08	18520
February-08	14510
January-08	7901
December-07	146610
November-07	6347
October-07	7671
September-07	599
August-07	45
July-07	173
June-07	17
May-07	971
April-07	0
March-07	0
February-07	0
January-07	0
December-06	7008
November-06	90
October-06	9430

**Macpherson**  
**Ring 20 #3 WD, API 029-14604**  
**Mt Poso Oil Field**

<b>DATE</b>	<b>WATER, BBLs</b>
September-06	29690
August-06	16620
July-06	24770
June-06	28350
May-06	34870
April-06	28400
March-06	36850
February-06	36640
January-06	49480
December-05	20240
November-05	31100
October-05	35320
September-05	42420
August-05	46360
July-05	21790
June-05	26270
May-05	16650
April-05	23926
March-05	46520
February-05	0
January-05	17190
December-04	48140
November-04	29270
October-04	30480
September-04	54110
August-04	69420
July-04	62880
June-04	28480
May-04	4100
April-04	39070
March-04	34400
February-04	63730
January-04	40200
December-03	50380
November-03	47630
October-03	15910
September-03	14440
August-03	31314
July-03	5380
June-03	44670
May-03	81030
April-03	25320
March-03	34590
February-03	38940
January-03	32480



**Macpherson**  
**Ring 20 #3 WD, API 029-14604**  
**Mt Poso Oil Field**

<b>DATE</b>	<b>WATER, BBLs</b>
December-02	28220
November-02	19200
October-02	34310
September-02	20680
August-02	48330
July-02	39630
June-02	59730
May-02	32070
April-02	27550
March-02	44250
February-02	43880
January-02	20590
December-01	24380
November-01	37310
October-01	15850
September-01	22830
August-01	32290
July-01	12480
June-01	14320
May-01	24290
April-01	28940
March-01	2207
February-01	29580
January-01	34120
December-00	41910
November-00	35090
October-00	45520
September-00	12610
August-00	0
July-00	26880
June-00	0
May-00	3590
April-00	640
March-00	0
February-00	0
January-00	2090
December-99	0
November-99	0
October-99	0
September-99	0
August-99	0
July-99	2800
June-99	0
May-99	0
April-99	0

**Macpherson**  
**Ring 20 #3 WD, API 029-14604**  
**Mt Poso Oil Field**

<b>DATE</b>	<b>WATER, BBLs</b>
March-99	0
February-99	0
January-99	51294
December-98	31114
November-98	31426
October-98	44780
September-98	11580
August-98	51423
July-98	46410
June-98	20860
May-98	23300
April-98	27630
March-98	5280
February-98	4690
January-98	23100
December-97	8599
November-97	25800
October-97	25500
September-97	98060
August-97	36030
July-97	25410
June-97	30940
May-97	18070
April-97	34560
March-97	32870
February-97	15880
January-97	22620
December-96	30020
November-96	29410
October-96	34710
September-96	51020
August-96	41690
July-96	24180
June-96	18860
May-96	12950
April-96	22710
March-96	41670
February-96	122900
January-96	161790
December-95	146610
November-95	214140
October-95	205650
September-95	206180
August-95	141100
July-95	189750

**Macpherson**  
**Ring 20 #3 WD, API 029-14604**  
**Mt Poso Oil Field**

<b>DATE</b>	<b>WATER, BBLs</b>
June-95	200210
May-95	223811
April-95	180490
March-95	214810
February-95	202350
January-95	156210
December-94	169350
November-94	99530
October-94	42100
September-94	33760
August-94	0
July-94	0
June-94	0
May-94	0
April-94	22980
March-94	21280
February-94	43160
January-94	16060
December-93	30330
November-93	61650
October-93	60010
September-93	44780
August-93	0
July-93	0
June-93	0
May-93	0
April-93	15540
March-93	16770
February-93	0
January-93	1830
December-92	16660
November-92	37030
October-92	44150
September-92	8810
August-92	64630
July-92	113780
June-92	111850
May-92	64000
April-92	76680
March-92	60580
February-92	59800
January-92	40550
December-91	30330
November-91	53790
October-91	18710

**Macpherson**  
**Ring 20 #3 WD, API 029-14604**  
**Mt Poso Oil Field**

<b>DATE</b>	<b>WATER, BBLs</b>
September-91	23550
August-91	45700
July-91	61550
June-91	11640
May-91	24690
April-91	11130
March-91	15910
February-91	38570
January-91	59340
December-90	54140
November-90	82000
October-90	57990
September-90	32100
August-90	42110
July-90	0
June-90	32960
May-90	59630
April-90	80290
March-90	58470
February-90	13330
January-90	54970
December-89	43400
November-89	82140
October-89	0
September-89	16460
August-89	21690
July-89	0
June-89	57320
May-89	164230
April-89	29090
March-89	0
February-89	0
January-89	50316
December-88	169520
November-88	0
October-88	0
September-88	0
August-88	0
July-88	4176
June-88	0
May-88	4
April-88	56
March-88	112
February-88	112
January-88	55061

**Macpherson**  
**Ring 20 #3 WD, API 029-14604**  
**Mt Poso Oil Field**

<b>DATE</b>	<b>WATER, BBLs</b>
December-87	22692
November-87	329489
October-87	287020
September-87	329489
August-87	311425
July-87	273392
June-87	290561
May-87	472352
April-87	536039
March-87	201804
February-87	243102
January-87	266942
December-86	366208
November-86	607368
October-86	161250
September-86	104106
August-86	16210
July-86	408580
June-86	462390
May-86	430740
April-86	490370
March-86	520870
February-86	420920
January-86	560860
December-85	609370
November-85	506190
October-85	572160
September-85	549460
August-85	567420
July-85	584844
June-85	580950
May-85	562710
April-85	545920
March-85	510830
February-85	493590
January-85	557960
December-84	558960
November-84	497720
October-84	504160
September-84	500160
August-84	480190
July-84	442600
June-84	456730
May-84	493030
April-84	508580

**Macpherson**  
**Ring 20 #3 WD, API 029-14604**  
**Mt Poso Oil Field**

<b>DATE</b>	<b>WATER, BBLs</b>
March-84	513580
February-84	431100
January-84	403100
December-83	415380
November-83	386220
October-83	190526
September-83	180315
August-83	172721
July-83	181161
June-83	164901
May-83	441805
April-83	415353
March-83	393252
February-83	374788
January-83	410300
December-82	379900
November-82	132800
October-82	226840
September-82	127888
August-82	219256
July-82	194158
June-82	177347
May-82	154150
April-82	273234
March-82	284770
February-82	261497
January-82	320091
December-81	257999
November-81	194099
October-81	341299
September-81	347088
August-81	382152
July-81	362944
June-81	364165
May-81	409123
April-81	381267
March-81	386463
February-81	365660
January-81	380339
December-80	390442
November-80	325606
October-80	354121
September-80	323118
August-80	333887
July-80	356460

**Macpherson**  
**Ring 20 #3 WD, API 029-14604**  
**Mt Poso Oil Field**

<b>DATE</b>	<b>WATER, BBLs</b>
June-80	301421
May-80	321105
April-80	271517
March-80	230592
February-80	203787
January-80	207232
December-79	181455
November-79	180617
October-79	200426
September-79	207870
August-79	209435
July-79	180741
June-79	167999
May-79	158440
April-79	136969
March-79	175893
February-79	188180
January-79	217682
December-78	257646
November-78	256049
October-78	247726
September-78	217574
August-78	253889
June-78	216744
May-78	221033
April-78	225496
March-78	237471
February-78	242813
January-78	269040
December-77	211589
November-77	262918
October-77	241010
September-77	0
August-77	250765
July-77	251936
May-77	218830
<b>Total Volume</b>	<b>50520239</b>

January 1975- April 1977 data is unavailable

DISK

One PDF copy of the data included in this binder

Spreadsheets in Microsoft Excel

Copies of all Open Hole Logs, MITs and SAPTs for Ring 20-3

(APN 029-14064)





# WELACO

## PRODUCTION LOGGING

### WATER INJECTION SURVEY

FILING NO.

COMPANY: MACPHERSON OIL COMPANY

WELL: RING #3-20

FIELD: MT. POSO

COUNTY: KERN

STATE: CALIFORNIA

LOCATION:

OTHER SVC:

API NUMBER: 0402914064  
SEC: 20 TWN: 77S RNG: 28E

ELEVATIONS:

KB: Ft.

DF: Ft.

GL: Ft.

LOG MEASURED FROM KB 10' ABOVE PERM DATUM

DRILLING MEASURED FROM

DATE LOG RAN

7-15-2005

PRESSURE TUBING PSI

ONE

FLOWING INJECTION

SHUT-IN

RUN NUMBER

ONE

EFFECTIVE DEPTH

1190'

CASING PSI

0

VENTED

PICKUP DEPTH

1052'

INJECTION RATE

N/A

OBSERVED RATE

4175 B/D

BOT LOGGED INT

1052'

R/A SOURCE

F-131 W

TOP LOGGED INT

200'

WATER ACTIVITY

3 MCI

PE OF INJECT

WATER

WATER HALF LIFE

8.08 DAYS

FLUID IN WELL

WATER

FLUID LEVEL

SURFACE

WELL STATUS

INJECT.

PRODUCTION DATA

MAX TEMPERATURE

1200 F.

OIL Gr.

OIL = B/D

AT DEPTH

1045.0'

GAS Gr.

GAS = MCF/D

TEMPERATURE SENS

1 F/DIV

MPP

BHP = PSI

LOGGING SPEED

VARIOUS

WATER = B/D

RECORDED BY

R. LOPEZ

WITNESSED BY

ENGINEER

DATE

TIME

BY

INITIALS

SIGNATURE

DATE

#### Equipment Data

R/A Ejector Tool	1.375"
Collar Locator	1.375"
Temperature Tool	1.375"
Gamma Detector	1.375"

#### Remarks/Survey Results

SURVEY INDICATES NO MIGRATION AROUND TOP PERF OR AT PACKER.  
 WATER INJECTION SURVEY - PROFILE A:  
 920'-950' APPROX. 1670 B/D 40%  
 950'-985' APPROX. 793 B/D 19%  
 985'-1005' APPROX. 1461 B/D 35%  
 1005'-1040' APPROX. 251 B/D 6%

#### CASING AND TUBING RECORD

SIZE	WT(#)	FROM	TO	SIZE	WT(#)	FROM	TO
7"	23	SURFACE	2100'				
2.875"	6.5	SURFACE	834'				

#### PERFORATIONS

TR.	PIPE DIA.	
A	7"	920'-1130'
		PACKERS: 818'-824'

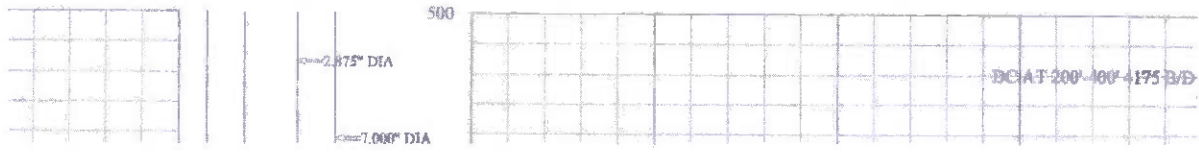
#### TOOL DIAGRAM

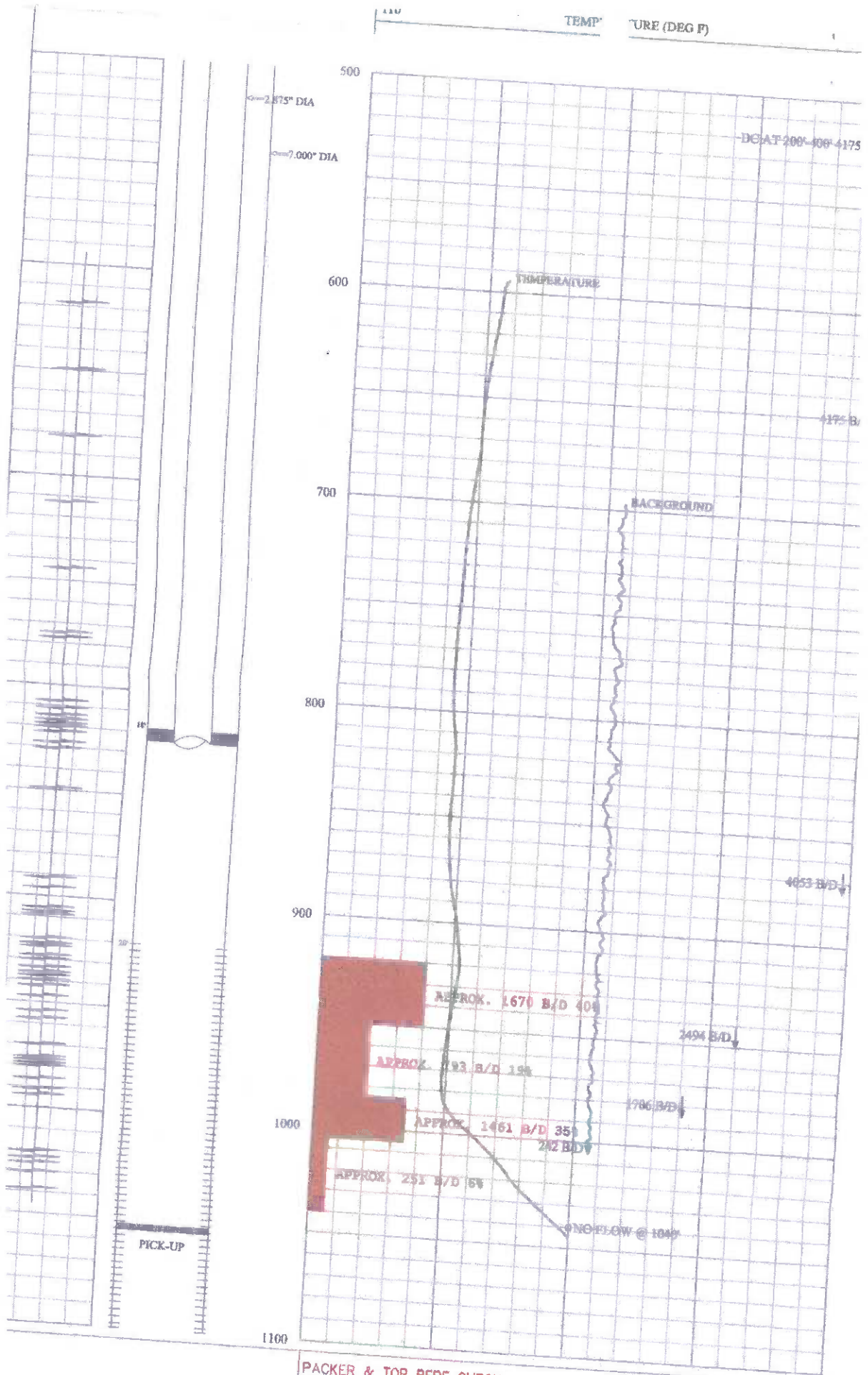


156 COLLAR LOCATOR 1556 0 VELOCITY CHECKS (B/D) 4180

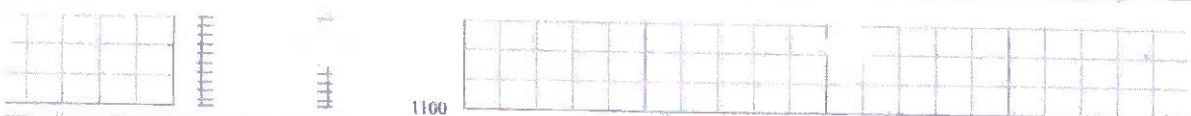
0 PROFILE (PERCENT) 100.0 BACKGROUND 200

110 TEMPERATURE (DEG F) 130



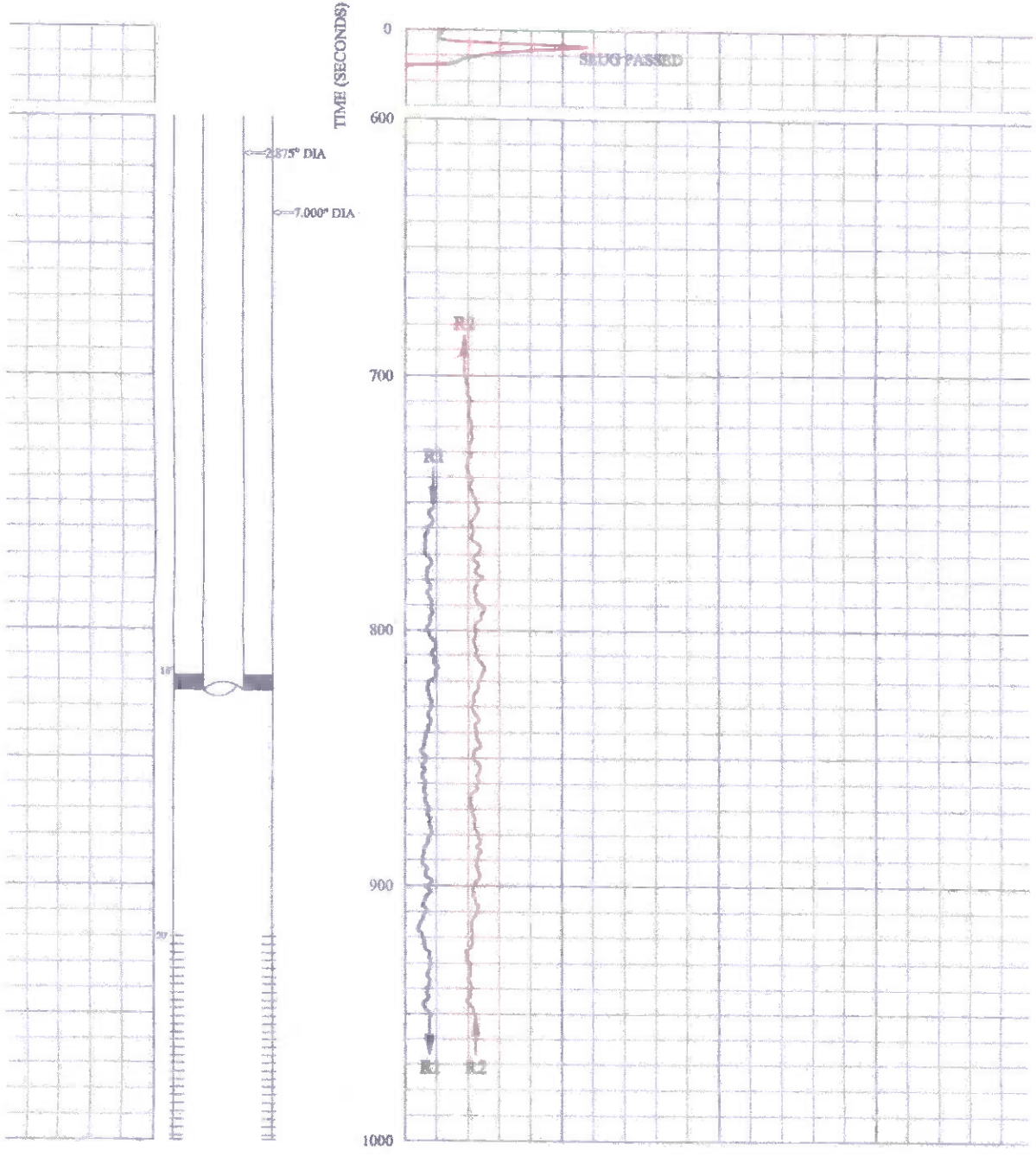


PACKER & TOP PERF CHECK  
 SLUG OUT AND BY AT 750', WAITED 0 SEC.  
 THEN LOGGED DOWN...



PACKER & TOP PERF CHECK  
 SLUG OUT AND BY AT 750', WAITED 0 SEC.  
 THEN LOGGED DOWN...

0 RADIATION INCREASES >>> 200



# WELACO

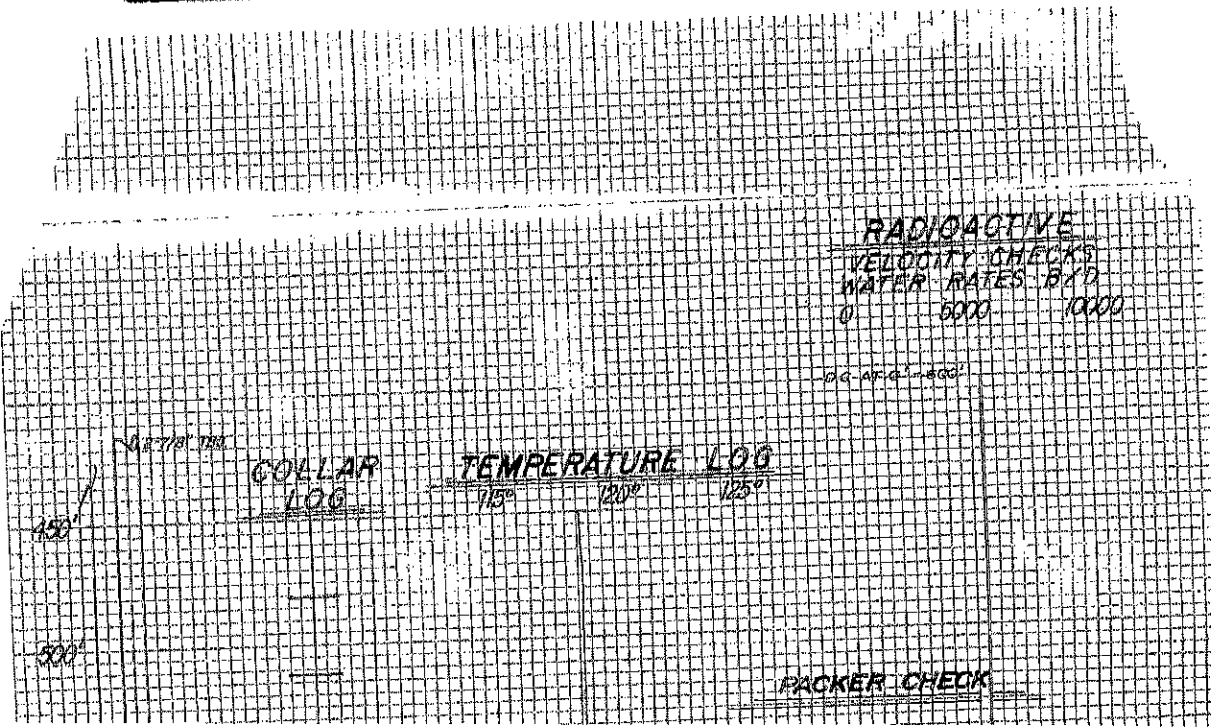
PRODUCTION LOGGING

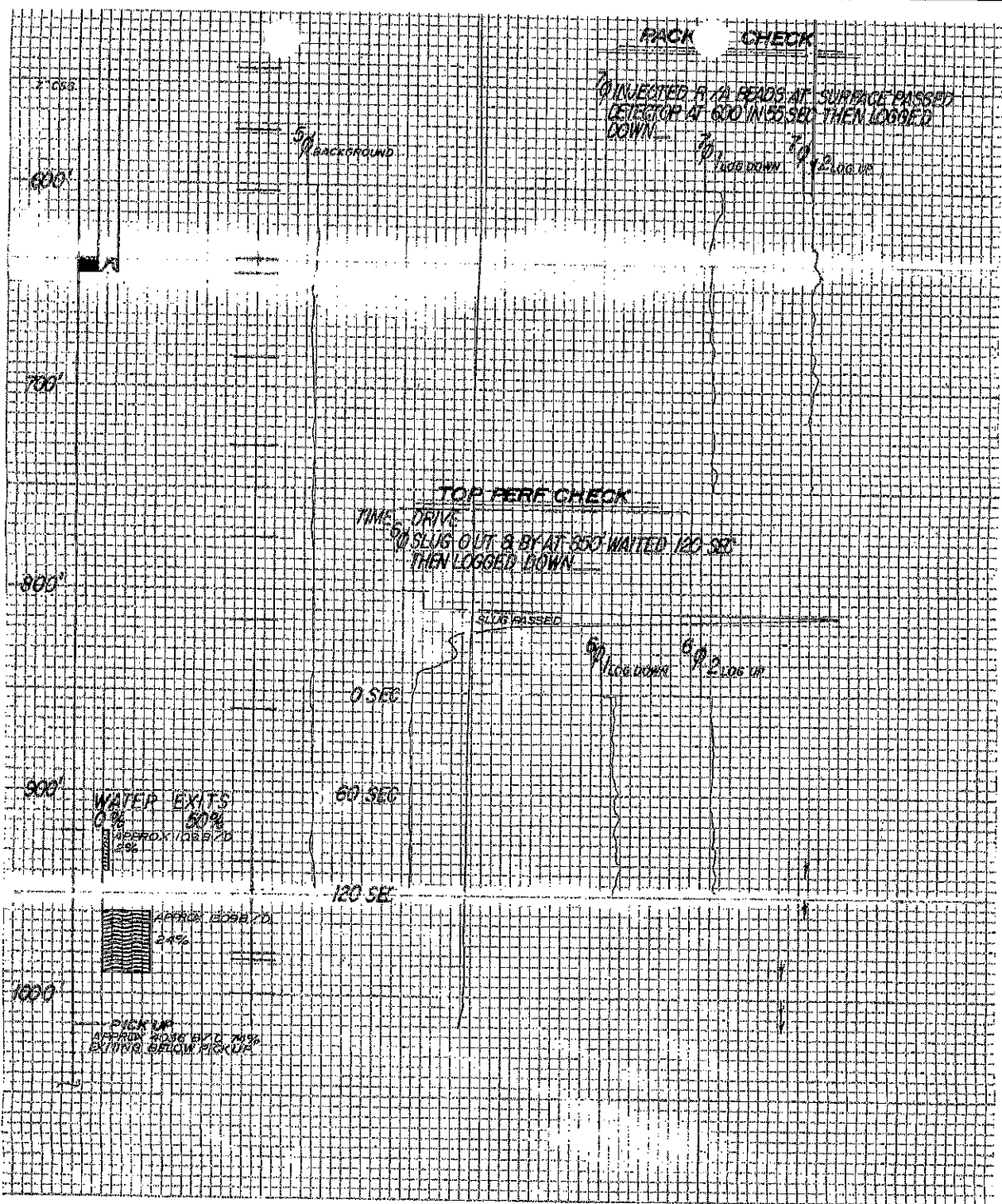
## Water Injection Survey

PROPERTY: MACHERSON OIL COMPANY  
 Well # 3 **RWC 20 # 3** Field: WEST MT. POZO  
 County: KERN S-20 T-27S, R-28E State: CALIFORNIA

DATE LOG RUN: 5-30-90 PRESSURE: TUBING: 90  
 REPERFORATION: C/L CASING: 90  
 LOG MEASURED FROM: K.B. 10' RECTION: 90  
 EFFECTIVE DEPTH: 1750' DISTANCE: 5/454 90  
 PICKUP DEPTH: 1016' R.A. SOURCE: 1-131 WATER: 7  
 BOTTOM LOGGED INTERVAL: 600' ACTIVITY: 5 GAS: 1  
 TYPE OF INJECTION: WATER IN. CURVE: B.08 DAYS SHIP: 5  
 TYPE OF FLUID IN WELL: WATER GAS G: 1  
 FLUID LEVEL: SURFACE  
 WELL STATUS: INJECTING  
 WAZ REC TEMP: 118° @ 1016' 7" 23# 0' 2100'  
 TEMPERATURE SENS: 5°/INCH  
 LOGGING SPEED: VARIOUS  
 RECORDED BY: MIMO TOUREN  
 CHECKED BY: WESS DUNCAN  
 UNIT: CORRELATION: PREVIOUS LOG  
 REPERFORATIONS

TOOL	SERIAL NO.	DIAMETER	RESULTS AND REMARKS
INJECTOR		1.5"	SURVEY INDICATES NO MIGRATION AROUND TOP PERF OR AT PACKER. INJECTION PROFILE: 920'-940' APPROX. 109 B/D 2% 960'-990' " 1039 B/D 24% APPROX. 4036 B/D 74% EXITING BELOW PICKUP. APT No. 029-14064
COLLAR LOCATOR		1.5"	
TEMPERATURE		1.5"	
GAMMA		1.5"	





**RACK CHECK**

INJECTED 15 TL BEADS AT SURFACE PASSED DETECTOR AT 600 IN 50 SEC THEN LOGGED DOWN

70 100 DOWN 70 2.00 UP

54 BACKGROUND

**TOP PERF CHECK**

TIME DRIVE SLUG OUT 8 BY AT 850 WAITED 120 SEC THEN LOGGED DOWN

SLUG PASSED

60 100 DOWN 60 2.00 UP

0 SEC

60 SEC

120 SEC

WATER EXITS  
0% 50%  
APPROX LOGGED TO 25%

APPROX LOGGED TO 24%

PICK UP APPROX 1000 BY 10 30 EXITS BELOW PICKUP

1000'

600'

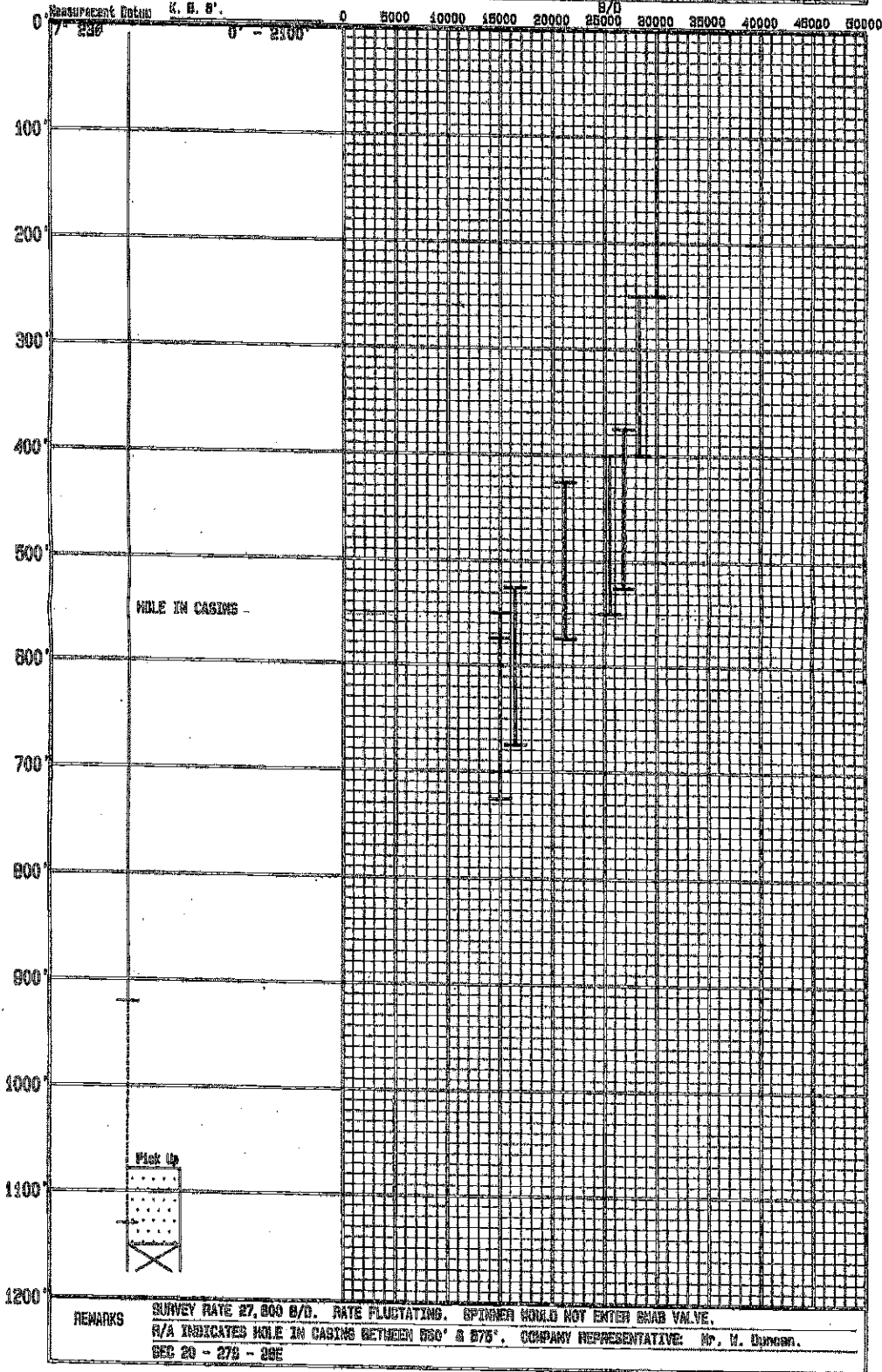
700'

800'

900'

**SURVEY DATA**

RUN NO.	740
TYPE SURVEY	R/A B-T
Date	22 - 2A - 24
Orientation Data	
Injection Pressure	500 PSI BOP
Pack-up or Shortest Depth Observed	1075
Flow	
Surf. Temp. (°C)	
Surf. Temp. (°F)	

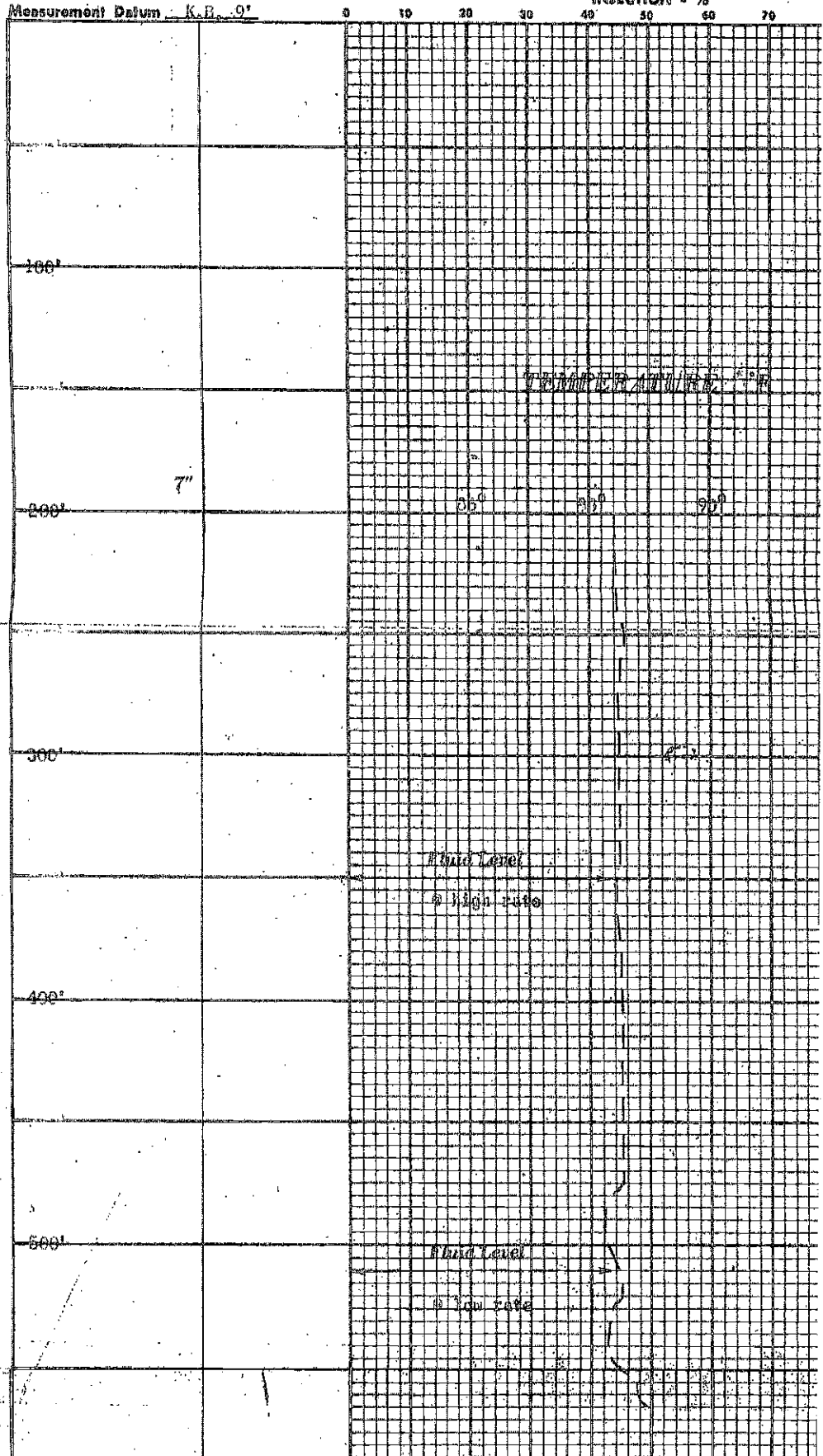


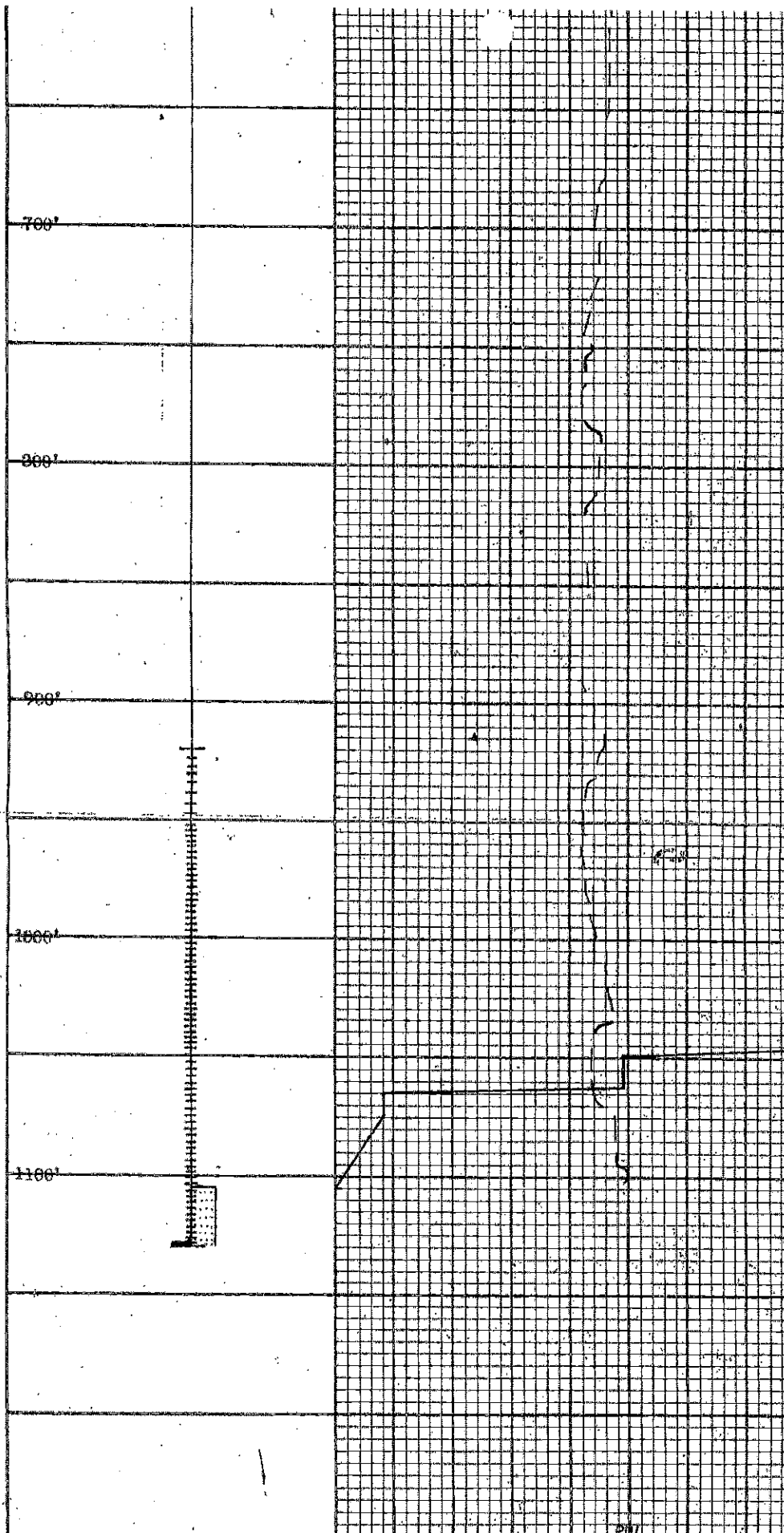
PRODUCTION DATA, INC.

SURVEY DATA

RUN NO.	ONE			
Type Survey	INJECTION PROFILE			
Date	11-4-77			
Inf. Rate	No notes			
Inf. Procs.	VAC			
Pick-up	1105'			
PH	25'			
Plur/Tap Perf. Chkd.	OK			
Sorvico Co.	PH			

SAND				



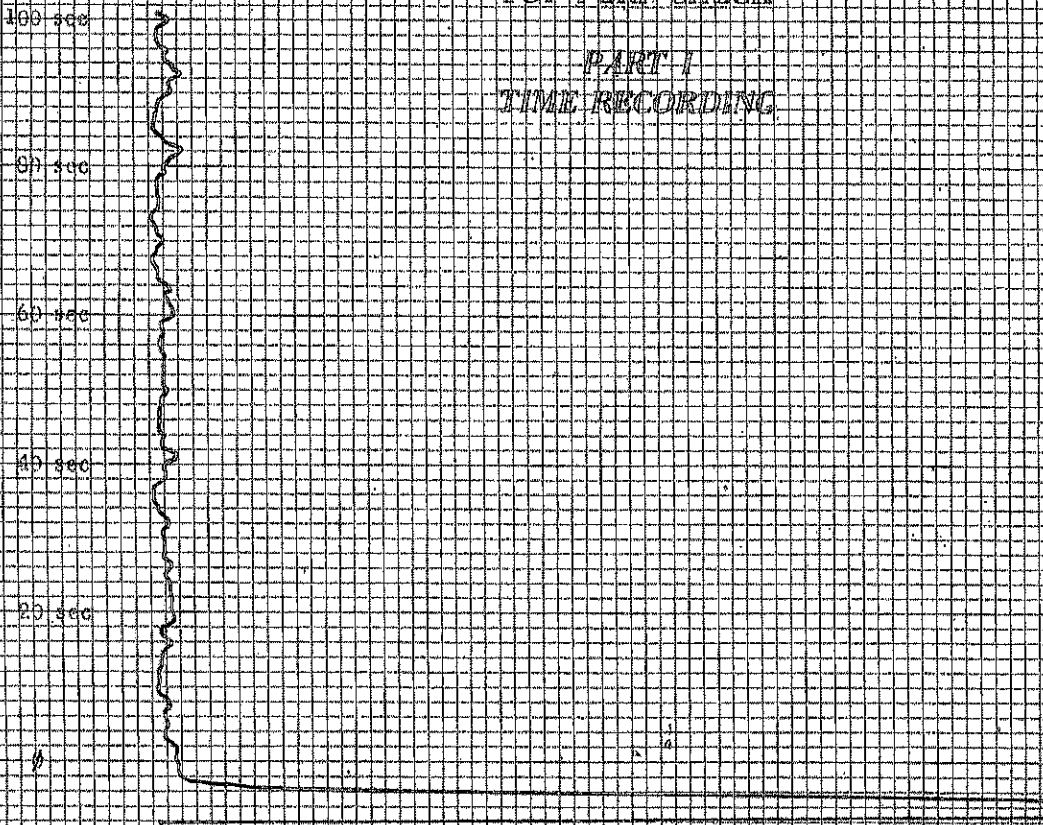


Remarks TOP PERF check made with higher injection rate of 10,863 B/D.  
 Checks in the upper and lower intervals in the liner show no flow lbs  
 higher rate



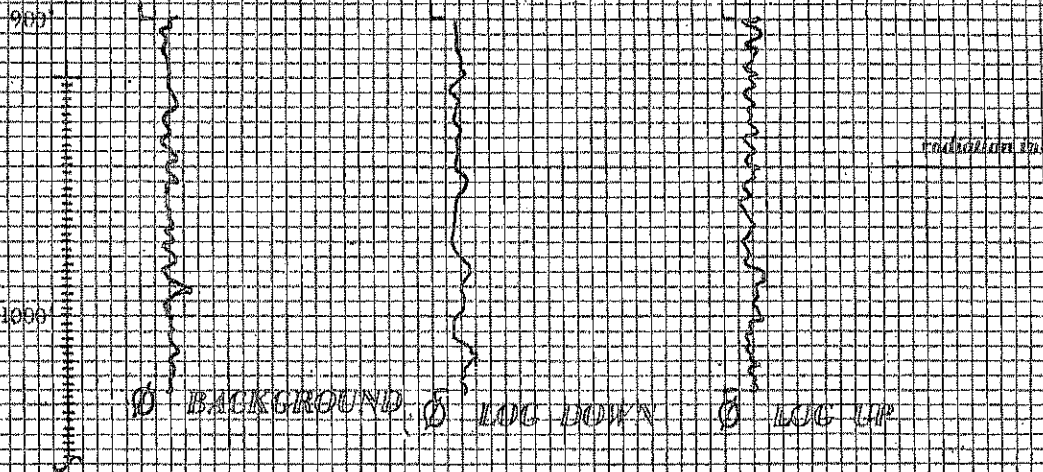
TOP PERF CHECK

PART I  
TIME RECORDING



TOP PERF check at 900'. Injected slug out and by, waited 100 seconds.

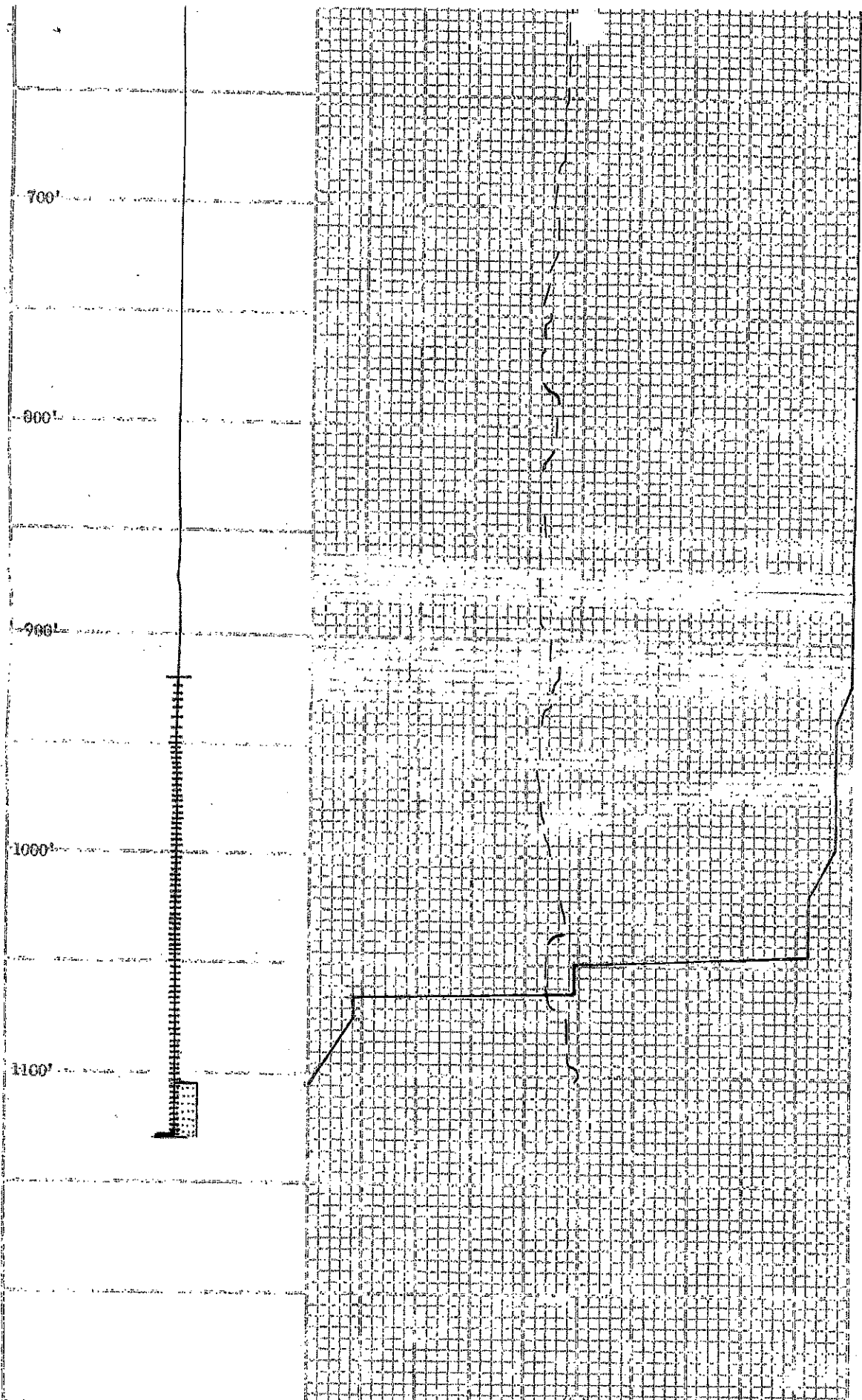
PART II  
LOGGING RUNS



TOP PERF check OK.







TOP PERM check made with higher Injection rate of 10,000 G/D. Checks in the upper and lower intervals in the filter show no flow loss with higher rate.

TOP PERF CHECK

PART I

TIME RECORDING

100 sec

80 sec

60 sec

40 sec

20 sec

TOP PERF check at 900' - injected slug out and by, waited 100 seconds, then logged

PART II

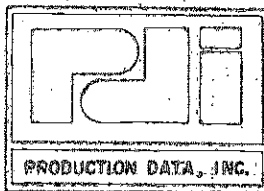
TIME RECORDING

900'

1000'

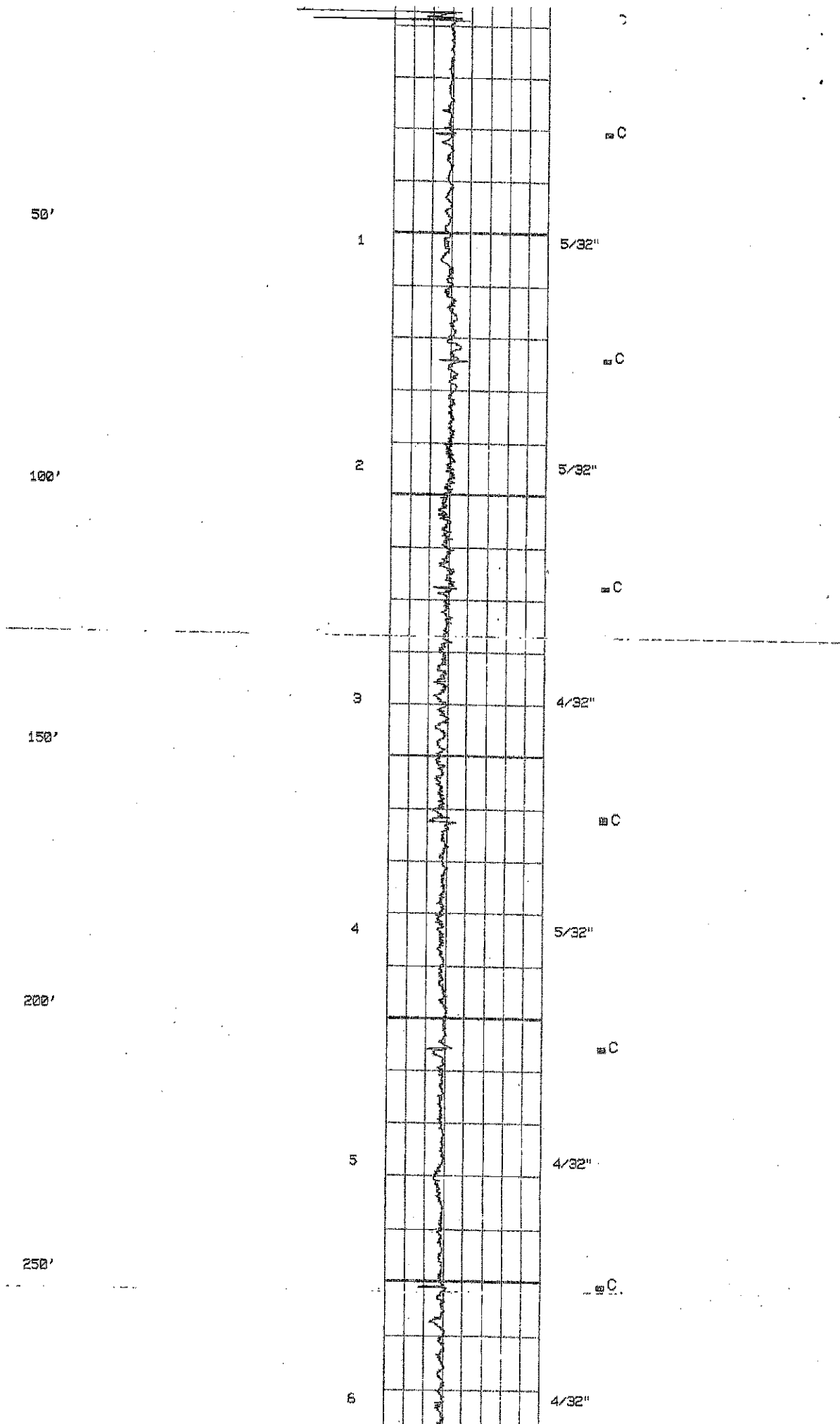
BACKGROUND LOG DOWN LOG UP

TOP PERF check OK.









300'

350'

400'

450'

500'

0

7

8

9

10

11

12

47 32

1/2"

0/32"

1/2"

4/32"

1/2"

1/32"

1/2"

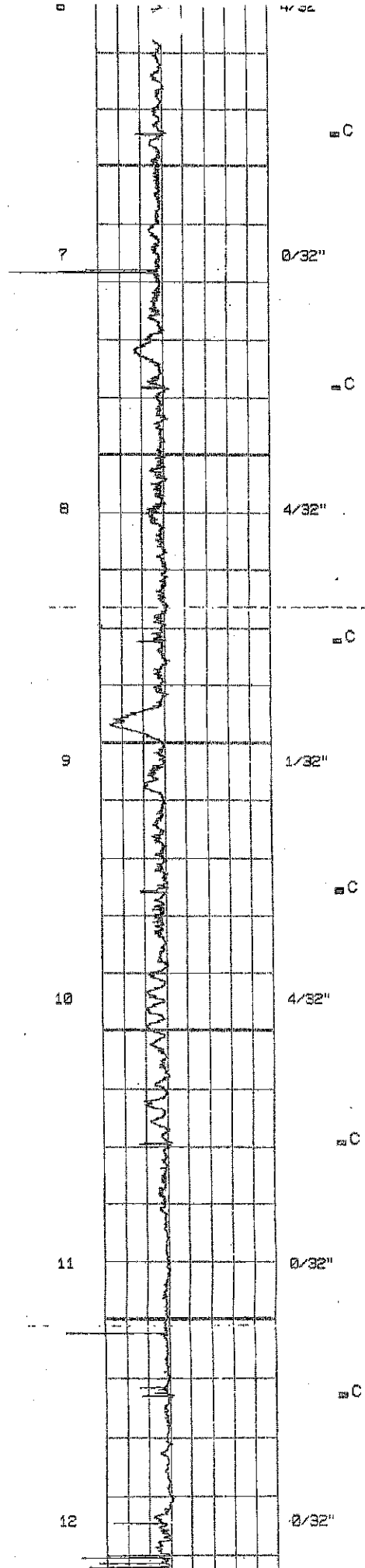
4/32"

1/2"

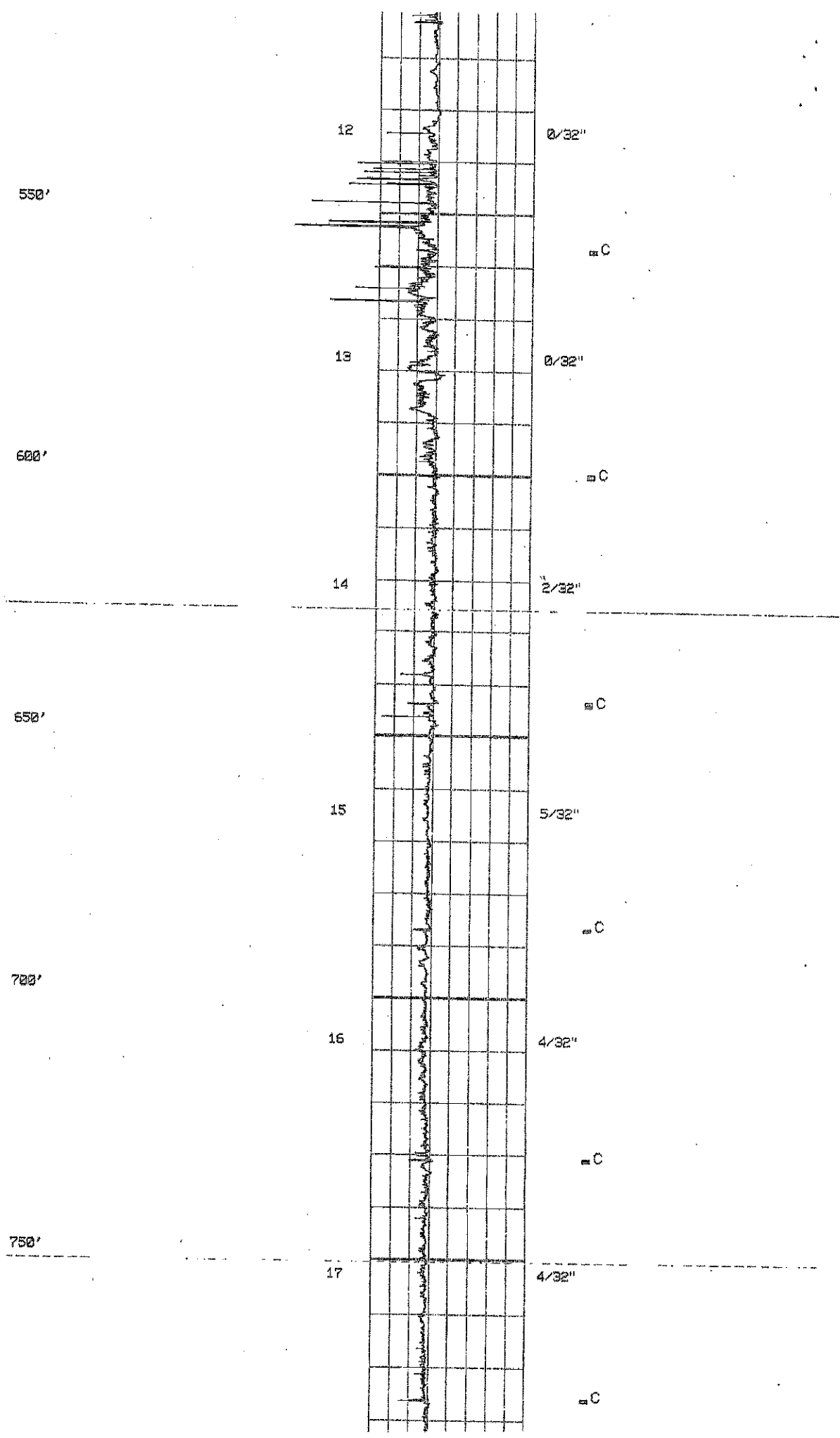
0/32"

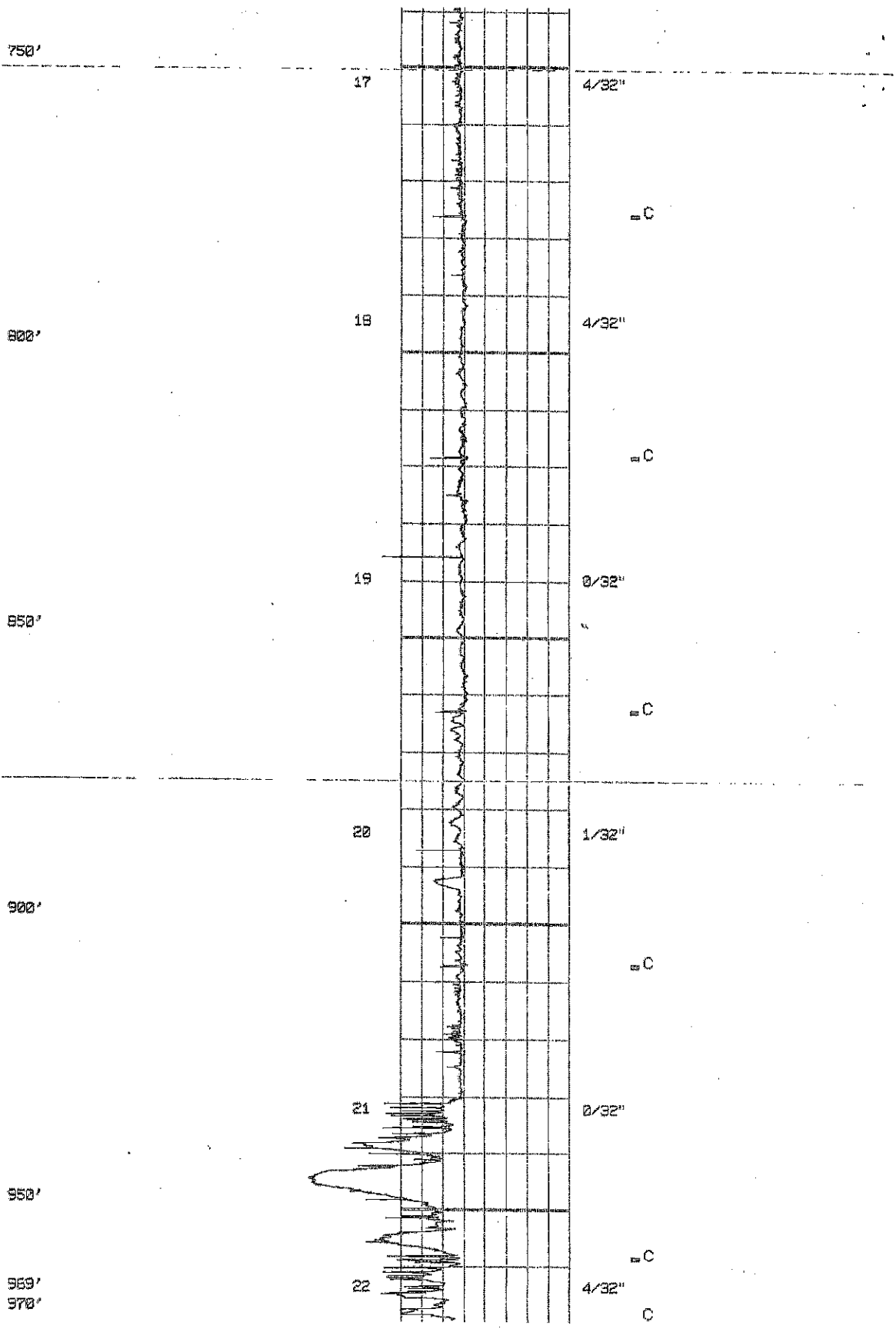
1/2"

0/32"









# AGNEW & SWEET

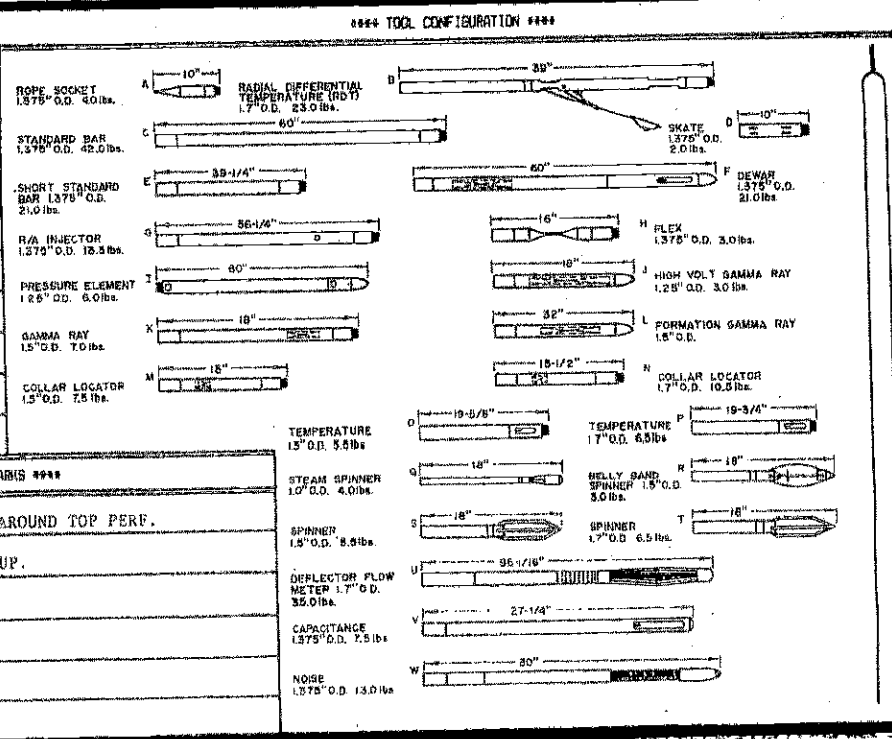
PRODUCTION LOGGING  
**Water Injection Survey**

COMPANY:	MAGPHERSON OIL COMPANY	WELL:	RING #3	FIELD:	MT. POSO	STATE:	CA.
LOG ROW:	10-9-87	PICK-UP DEPTH:	1062'	BOTTOM LOGGED INTERVAL:	1062'	TYPE OF INJECTION:	WATER
LOG MEASURED FROM:	KB 8'	EFFECTIVE DEPTH:	1150'	TYPE FLUID IN WELL:	WATER	FLUID LEV.:	SURFACE
LOGGING INTERVAL:	100'	TYPE OF INJECTION:	WATER	WELL STATUS:	INJECTING	WITNESSED BY:	MONIZOUREN
PICK-UP DEPTH:	1062'	TYPE FLUID IN WELL:	WATER	TEMPERATURE SENS.:	5°/IN	RECORDED BY:	MONIZOUREN
BOTTOM LOGGED INTERVAL:	1062'	TYPE OF INJECTION:	WATER	TEMPERATURE SENS.:	VARIOUS	WITNESSED BY:	
TYPE OF INJECTION:	WATER	TYPE FLUID IN WELL:	WATER	TEMPERATURE SENS.:	VARIOUS	RECORDED BY:	MONIZOUREN
TYPE FLUID IN WELL:	WATER	TYPE OF INJECTION:	WATER	TEMPERATURE SENS.:	VARIOUS	WITNESSED BY:	
FLUID LEV.:	SURFACE	TYPE FLUID IN WELL:	WATER	TEMPERATURE SENS.:	VARIOUS	RECORDED BY:	MONIZOUREN
WELL STATUS:	INJECTING	TYPE OF INJECTION:	WATER	TEMPERATURE SENS.:	VARIOUS	WITNESSED BY:	
MAX REC TEMP & DEPTH:	109.3° @ 800'	TYPE FLUID IN WELL:	WATER	TEMPERATURE SENS.:	VARIOUS	RECORDED BY:	MONIZOUREN
TEMPERATURE SENS.:	5°/IN	TYPE OF INJECTION:	WATER	TEMPERATURE SENS.:	VARIOUS	WITNESSED BY:	
LOG SPEED:	VARIOUS	TYPE FLUID IN WELL:	WATER	TEMPERATURE SENS.:	VARIOUS	RECORDED BY:	MONIZOUREN
RECORDED BY:	MONIZOUREN	TYPE OF INJECTION:	WATER	TEMPERATURE SENS.:	VARIOUS	WITNESSED BY:	
WITNESSED BY:		TYPE FLUID IN WELL:	WATER	TEMPERATURE SENS.:	VARIOUS	RECORDED BY:	MONIZOUREN
DEPTH CORRECTION:		TYPE OF INJECTION:	WATER	TEMPERATURE SENS.:	VARIOUS	WITNESSED BY:	
MISCELLANEOUS #1:		TYPE FLUID IN WELL:	WATER	TEMPERATURE SENS.:	VARIOUS	RECORDED BY:	MONIZOUREN
MISCELLANEOUS #2:	970-1130'	TYPE OF INJECTION:	WATER	TEMPERATURE SENS.:	VARIOUS	WITNESSED BY:	
POWER @	N/A	TYPE FLUID IN WELL:	WATER	TEMPERATURE SENS.:	VARIOUS	RECORDED BY:	MONIZOUREN
DRIVE @		TYPE OF INJECTION:	WATER	TEMPERATURE SENS.:	VARIOUS	WITNESSED BY:	
NO. @		TYPE FLUID IN WELL:	WATER	TEMPERATURE SENS.:	VARIOUS	RECORDED BY:	MONIZOUREN
SLIP @		TYPE OF INJECTION:	WATER	TEMPERATURE SENS.:	VARIOUS	WITNESSED BY:	
PAGE @		TYPE FLUID IN WELL:	WATER	TEMPERATURE SENS.:	VARIOUS	RECORDED BY:	MONIZOUREN

\*\*\* ELEVATIONS \*\*\*  
 ELEV. \_\_\_\_\_  
 K.B. \_\_\_\_\_  
 D.F. \_\_\_\_\_  
 G.L. \_\_\_\_\_

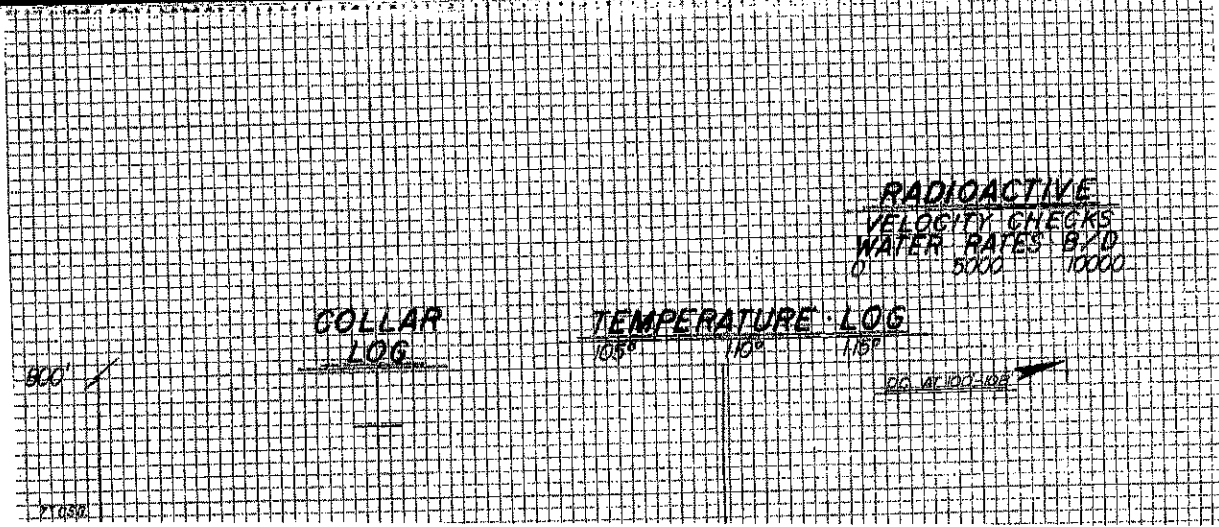
\*\*\* LOGGING EQUIPMENT \*\*\*

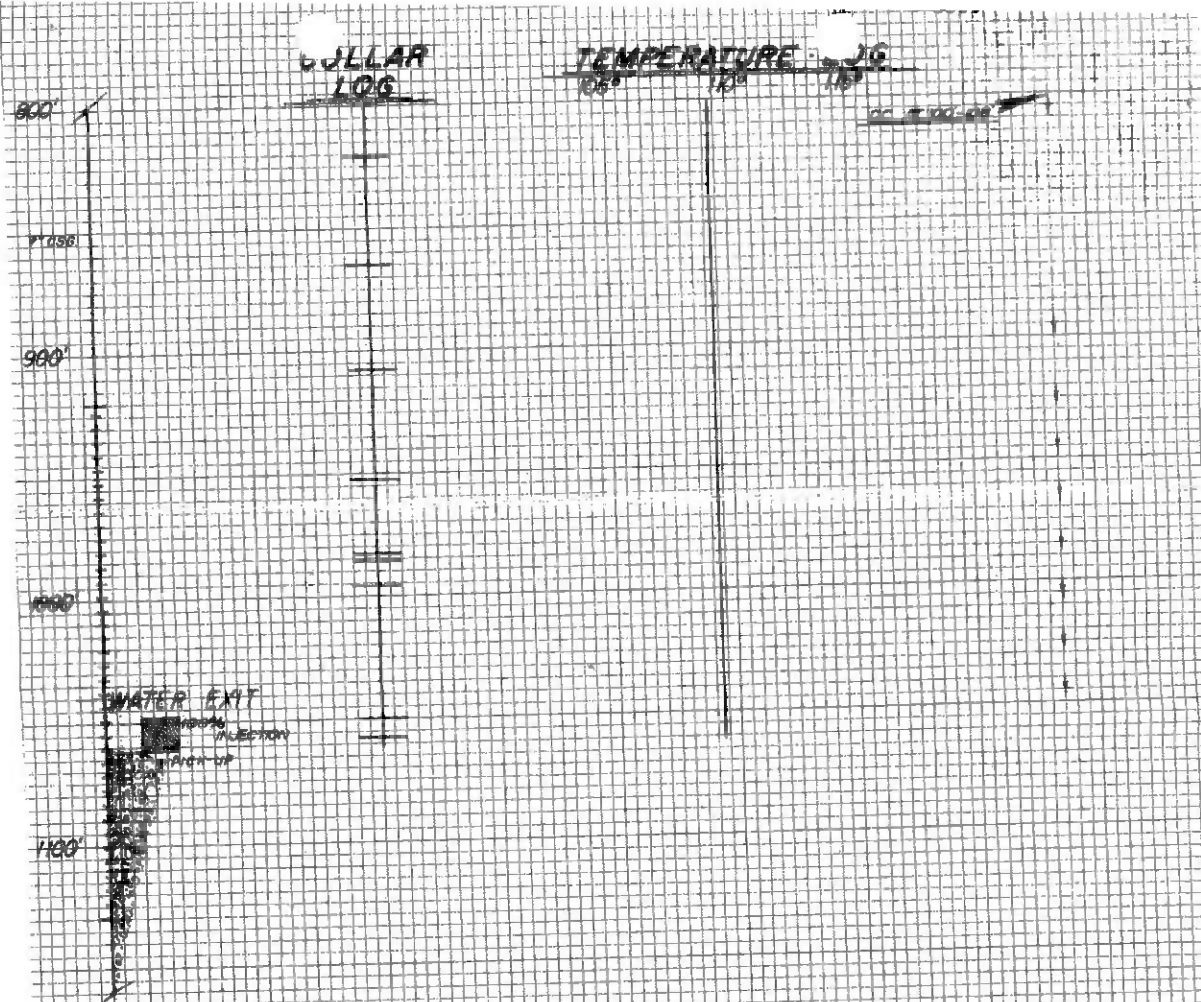
TOOL	SERIAL No.	DIMETER
GAMMA	N/A	1.5"
TEMPERATURE	N/A	1.5"
COLLAR LOCATOR	N/A	1.5"
R/A INJECTOR	N/A	1.5"



\*\*\* RESULTS AND REMARKS \*\*\*

SURVEY INDICATES NO MIGRATION AROUND TOP PERF.  
 POSSIBLE INJECTION BELOW PICK-UP.

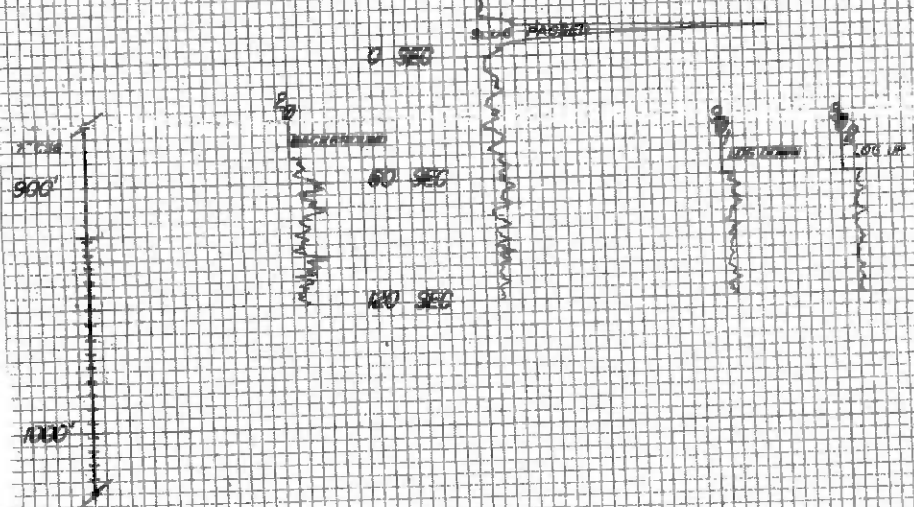




**TOP PERF CHECK**

TIME DRIVE

SLUG OUT & BY AT 900' WAITED 120 SEC THEN LOGGED DOWN

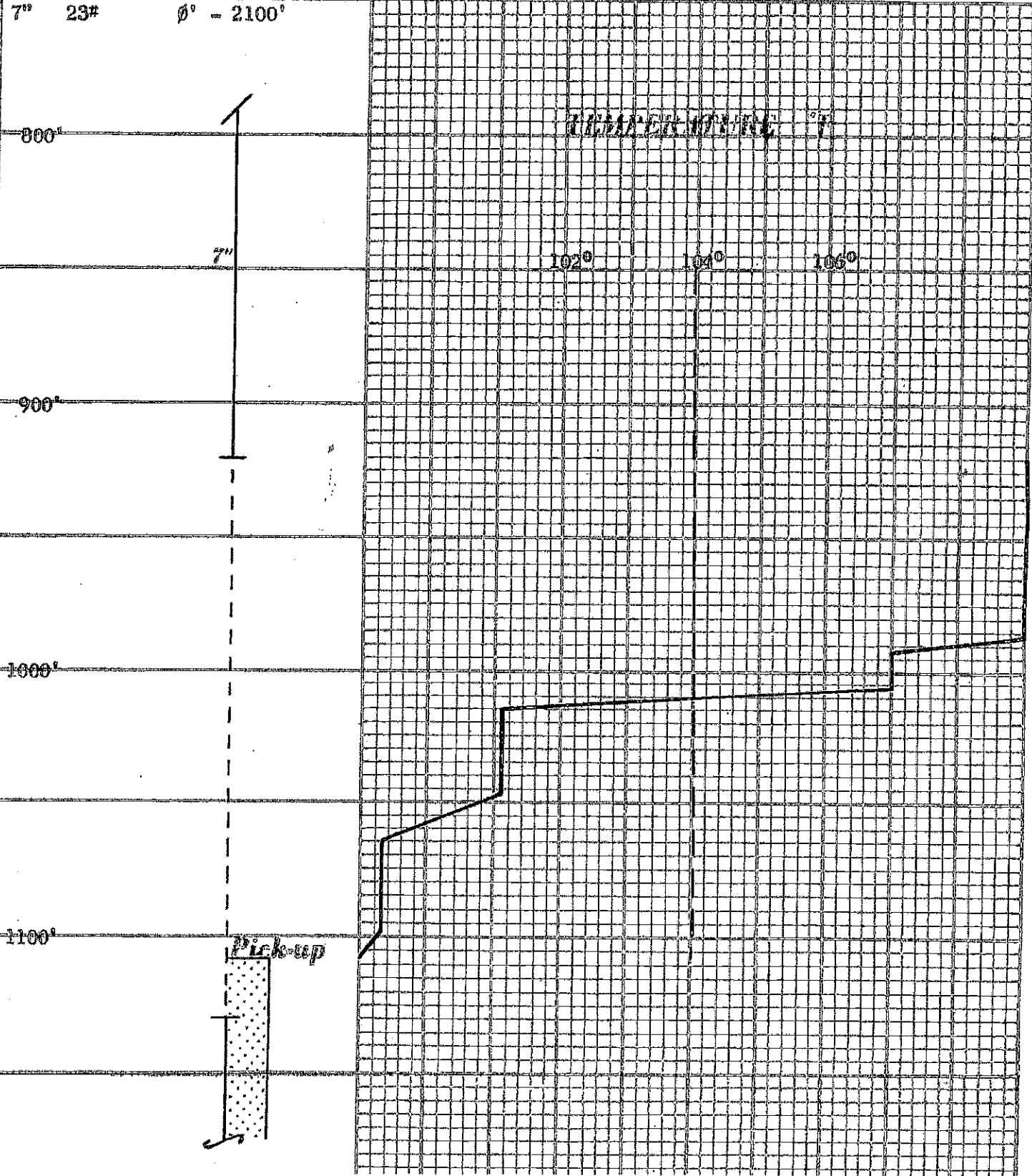


Company THOMAS OIL COMPANY Field MOUNT ROSO Well No. RING 20 #3  
**SURVEY DATA** **INJECTED FLUID-B/D**

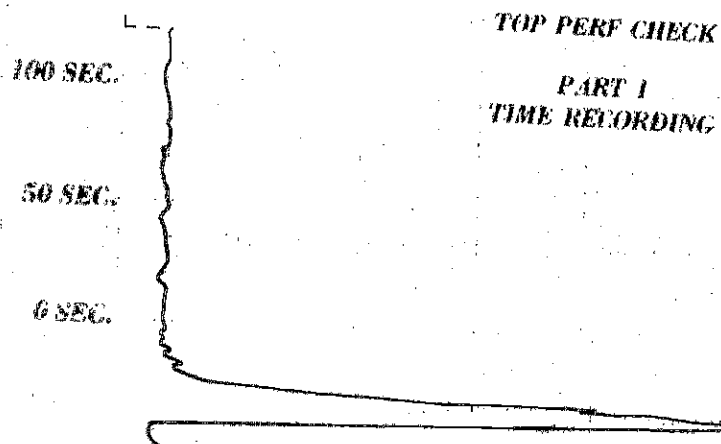
RUN NO.	ONE				
Type Survey	B/A S-T				
Date	9-2-80				
inj. Rate					
inj. Press.	30 psi				
Pick-up	1108'				
PH	992'				
Plur/Top Part. Chk.	OK				
Service Co.	PDI				

SAND					

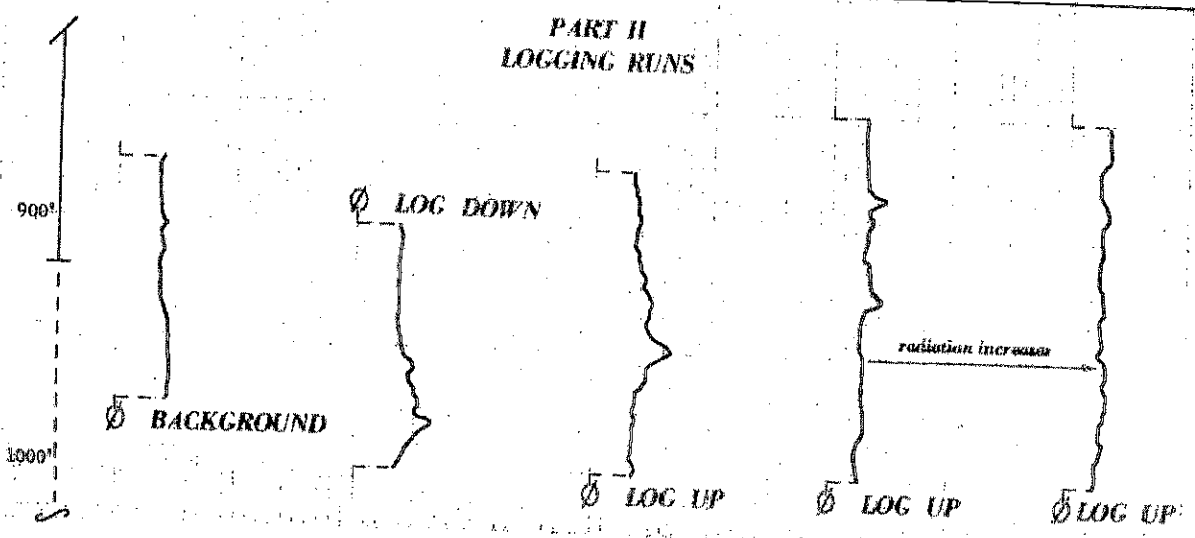
Measurement Datum \_\_\_\_\_ INJECTION - %



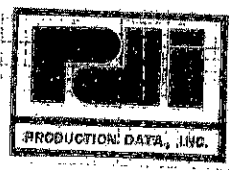
Remarks	SPINNER	ks @ 30' & 900' indicate no holes in casing.	TOP PERF	Production Data Inc.
	check OK	SURVEY RATE 5505 B/D		

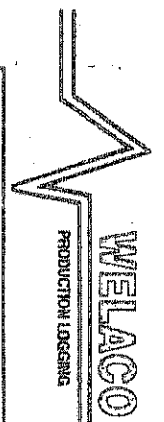


**TOP PERF CHECK @ 900' INJECTED R/A SLUG OUT AND BY. WAITED 120 SEC. THEN LOGGED DOWN.**



**TOP PERF CHECK OK**



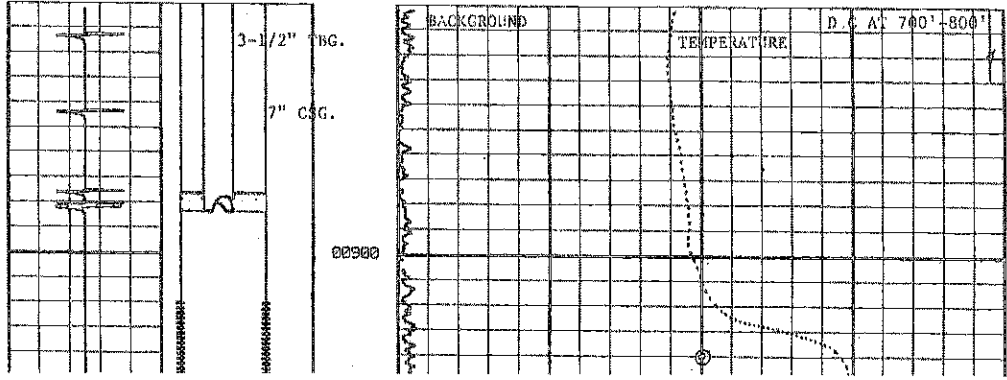


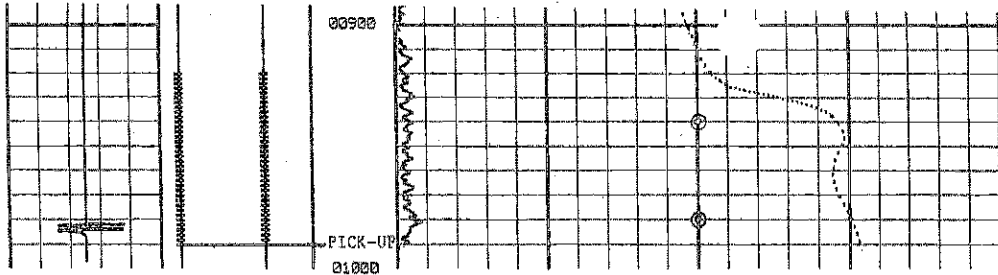
WATER INJECTION SURVEY

LOG NO.	COMPANY	MCCHERSON OIL COMPANY	STATE CALIFORNIA
WELL	RING 3		
FIELD	WEST HOUNT POSSO		
COUNTY	KERN		
LOCATION:		OTHER SERV:	
API NUMBER: 029-14084			
PERMANT UNIT: GROUND LEVEL	ELEV:	ELEVATION:	
LOG MEASURED FROM KB, 10 FT ABOVE PERM DATUM		KB.	
DRILLING MEASURED FROM		DF.	
DATE LOG RAN	08-31-82	PRESSURE	FLOWING INJECTION SHUT-IN
RUN NO.	ONE	TYPING PSI	9
EFFECTIVE DEPTH	1150'	CASING PSI	
PICK-UP DEPTH	990'	INJECTION RATE	2900
BOIT LOGGED INT	390'	OBSERVED RATE	2856
TOP LOGGED INT	800'	R/A SOURCE	1-131 W
TYPE OF INJECT	WATER	ACTIVITY-	0.25
FLUID IN WELL	WATER	HALF LIFE-	3.08 DAYS
FL. LEVEL	SURFACE		
HE STATUS	INJECT.	PRODUCTION DATA	
NAR TEMPERATURE	129.2 F	OIL-	
RT DEPTH	2 993.5'	GAS GR.-	
TEMPERATURE SENS	SF/INCH	MRP	
LOGGING SPEED	VARIOUS	GAS-	
RECORDED BY	HUNTOZ	MRP-	
WITNESSED BY		WATER-	
ENGINEER			
DEPTH CORRELATION PACKER			

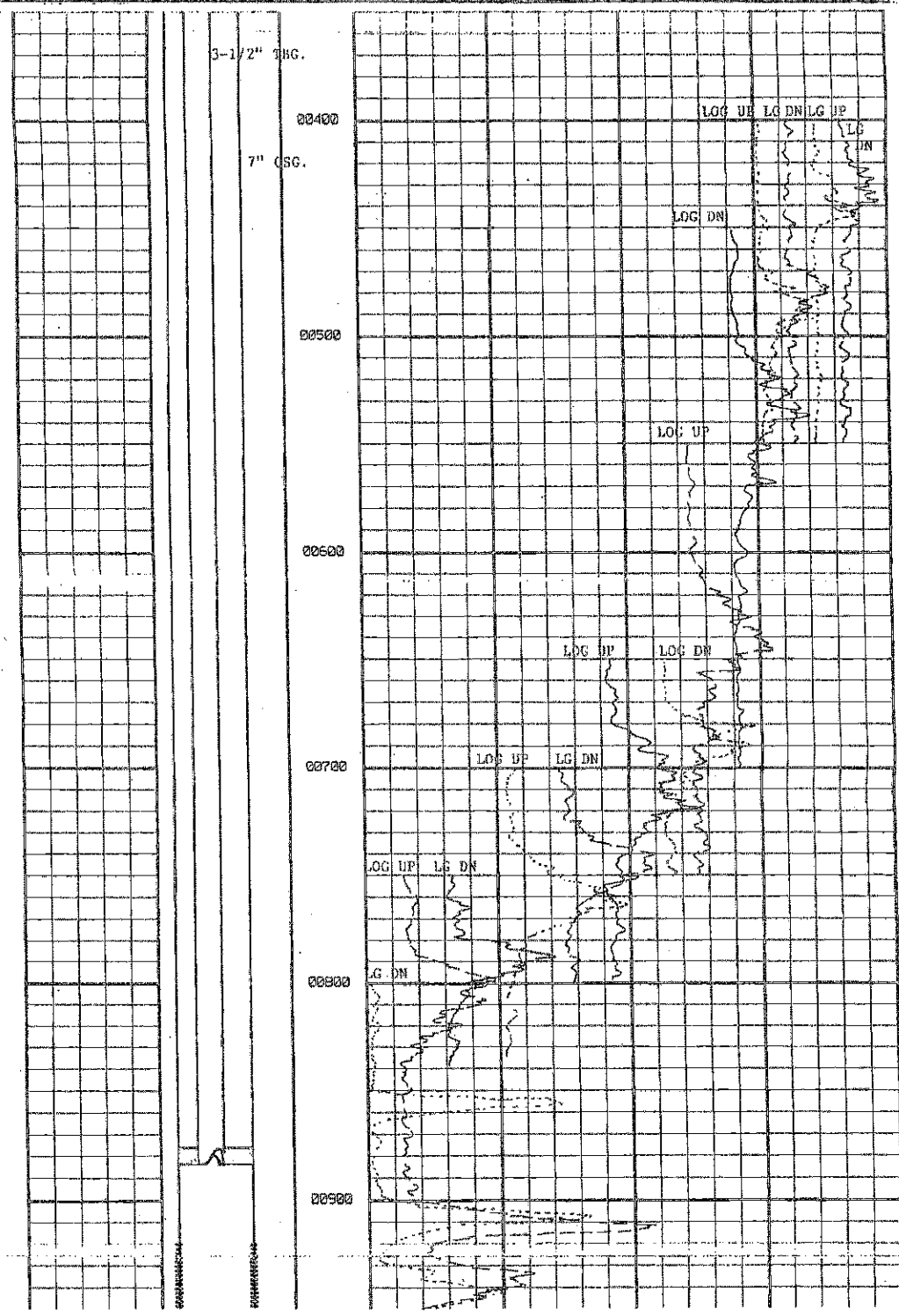
Equipment Data							
COLLAR LOCATOR	1.500"						
TEMPERATURE	1.500"						
GAMMA	1.500"						
R/A INJECTOR	1.375"						
Remarks/Survey Results							
SURVEY INDICATES POSSIBLE PACKER LEAK.							
CASING AND TUBING RECORD							
SIZE	WGT.	FROM	TO	SIZE	WGT.	FROM	TO
7"	23#	SURFACE	2100'				
3-1/2"		SURFACE	883'				
MISCELLANEOUS		PERFORATIONS					
PACKER AT	883'	920'-1150'					
CHOKE AT							
NO-GO AT							
SLEEVE AT							
PUMP AT							

DEPTHS	110	TEMPERATURE SCALE IN DEG. F	135
CASING COLLARS		RADIOACTIVE	
450	550	VELOCITY CHECKS	
		0 WATER RATE B/D 3000	





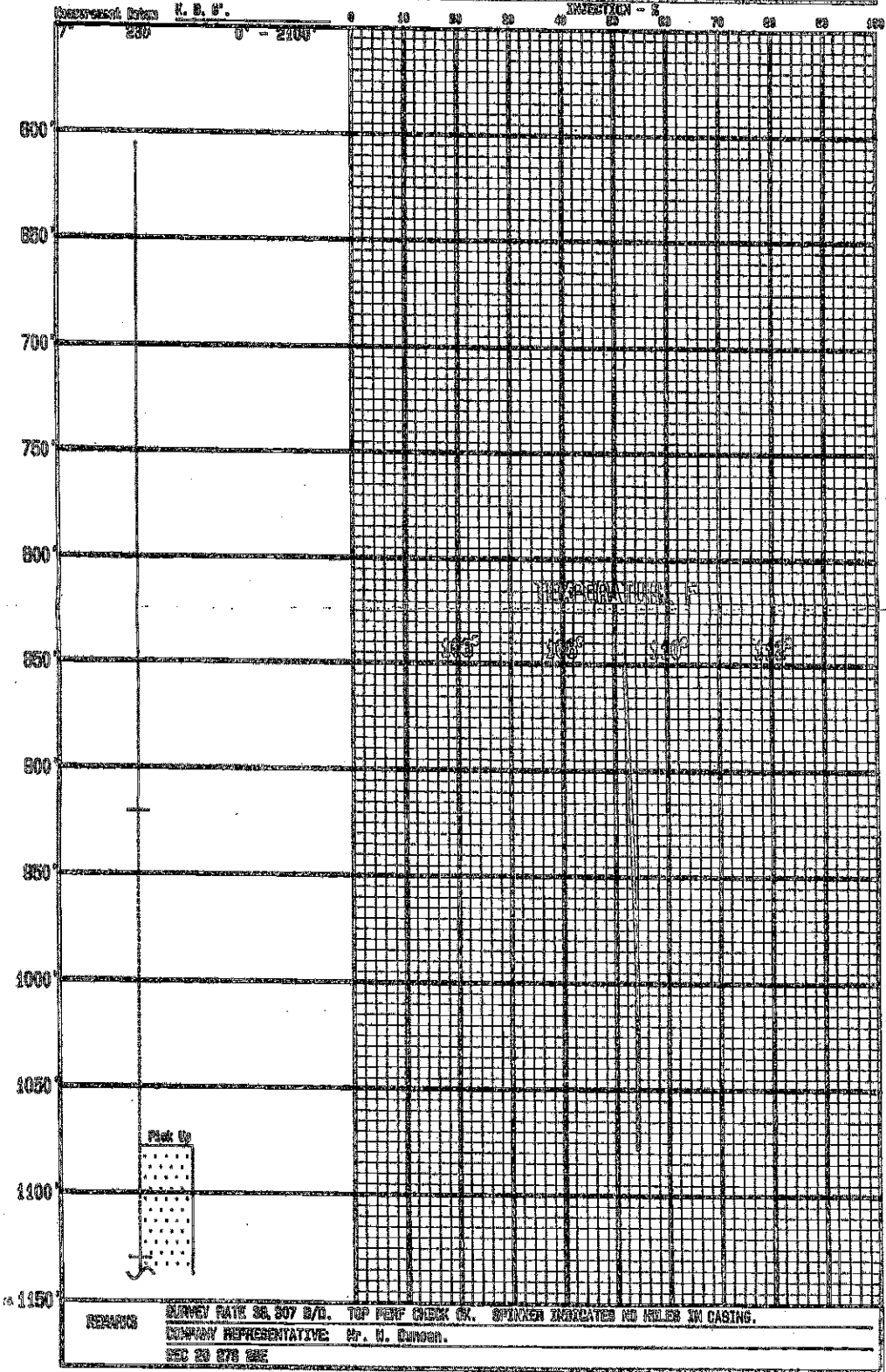
	DEPTHS TOP PERF & PACKER CHECK SLUG OUT AT & BY AT 800', LOGGED DOWN IMMEDIATELY ...  RADIATION INCREASES >>>>
--	--



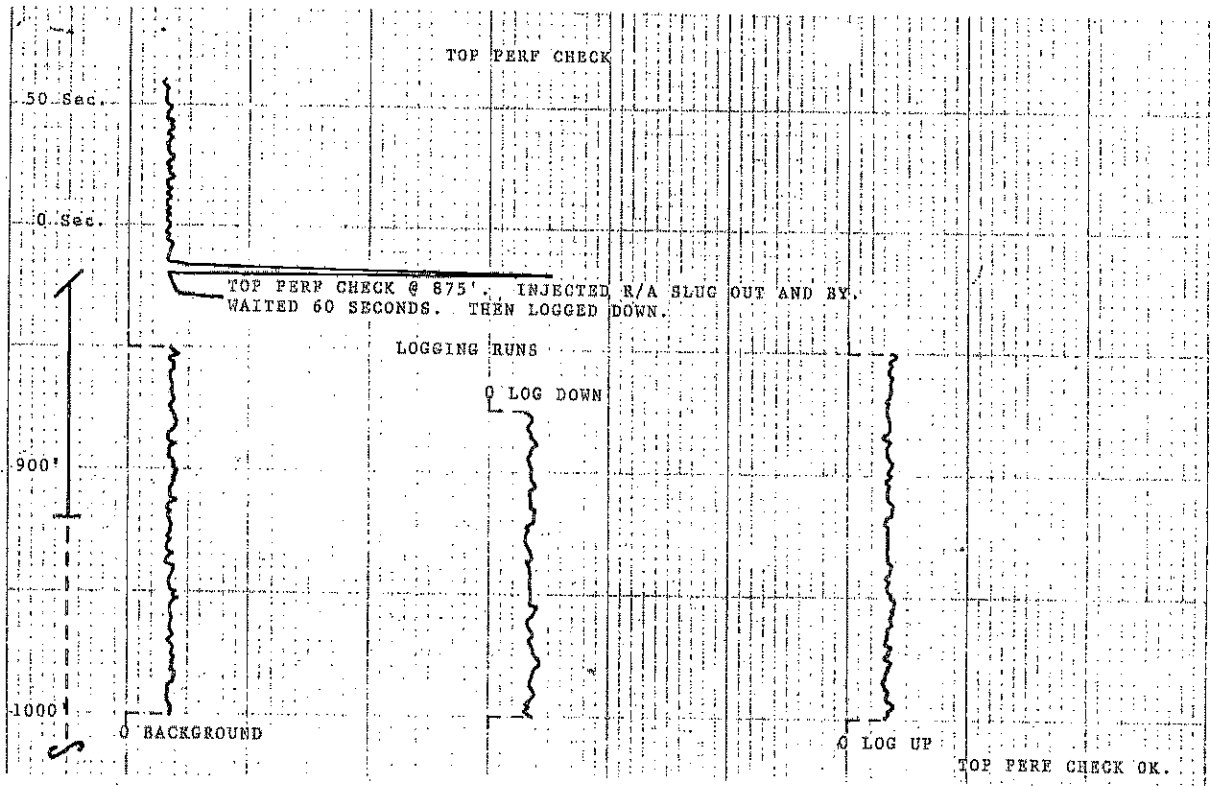


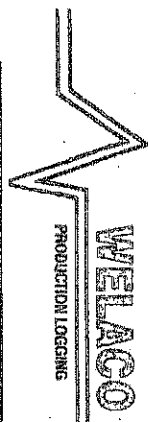
**SURVEY DATA**

PLAN NO.	DATE
TYPE SURVEY	BY
WELL	NO.
LOCATION	
WIRELINE	
WELL - IS IT PRODUCTION READY	
WELL	
WELL LOG	
WELL	



PRODUCTION DATA, INC.





WATER INJECTION SURVEY

G. NO. COMPANY MCPHERSON OIL COMPANY  
 WELL RING #3  
 FIELD WEST MT. POSO  
 COUNTY KERN STATE CALIFORNIA

LOCATION: OTHER SERV:  
 RPI NUMBER: 829-14064

PERMANENT DATUM: GROUND LEVEL ELEV. KB. DE.  
 SEC. TWP. RGE. ELEVATION:  
 .06 MEASURED FROM KB. 10 FT. ABOVE PERM DATUM

DATE LOG RAN	08-06-92	PRESSURE	FLOWING	INJECTION	SHUT-IN
WELL NO.	ONE	TUBING P.S.I.	100		
EFFECTIVE DEPTH	1150'	CASING P.S.I.		VENTED	
SICK-UP DEPTH	997'	INJECTION RATE	3488	B/D	
30TT LOGGED INT	997'	OBSERVED RATE	1-11:11	W	
TOP LOGGED INT	59'	K/A SOURCE	9.25	act	
TYPE OF INJECT	WATER	ACTIVITY	9.25	act	
FLUID IN WELL	WATER	WELL LIFE	9	AG	DAYS
FL. LEVEL	SURFACE				
WELL STATUS	INJECT.				PRODUCTION DATA
MAX TEMPERATURE	131.0 F	OIL G.P.			B/D
WELL DEPTH	9 660'	GAS G.P.			Mcf. D
TEMPERATURE SENS	5 F/INCH	MFP			B/D
LOGGING SPEED	VARIABLE	B.P.S.			B/D
RECORDED BY	M. FELDT	WATER			
WITNESSED BY	M. DUNCAN				
ENGINEER					
DEPTH CORRELATION PACKER					

Equipment Data

TEMPERATURE	1.375"
COLLAR LOCATOR	1.375"
GARNA	1.375"
RSA INJECTOR	1.375"
SPINNER	1.375"

Remarks/Survey Results

SURVEY INDICATES POSSIBLE PACKER LEAK; WATER FLOWING FROM CASING DURING PACKER CHECK. D.O.G. REQUIRED MIGRATION CHECK ONLY DUE TO LOW QUANTITY OF WATER AVAILABLE. SPINNER STOP CHECKS AT 50', AND 500', INDICATE NO LEAKS IN TUBING STRING. POSSIBLE INJECTION BELOW PICK-UP. NO MIGRATION AROUND TOP PERM OBSERVED.

INJECTION PROFILE:  
 920'-997' APPROXIMATELY 3488 B/D 100%

CASING AND TUBING RECORD

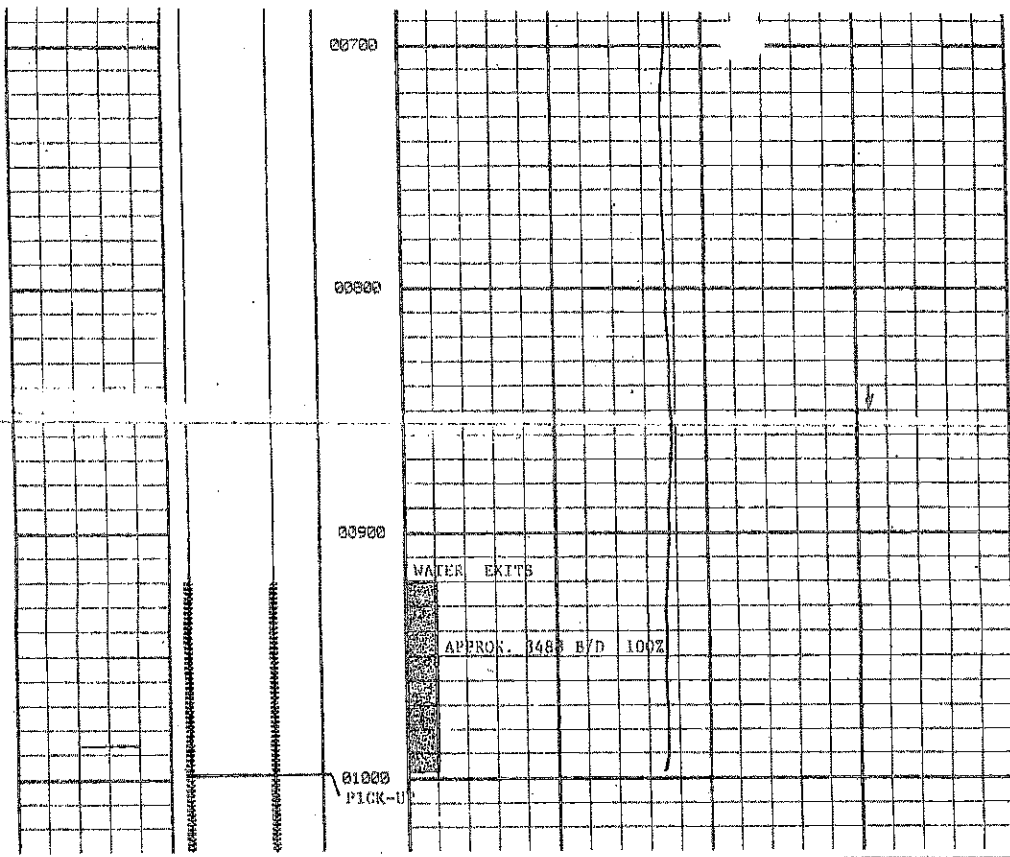
SIZE	WT.	FROM	TO	SIZE	WT.	FROM	TO
7"	28	SURFACE	2100'				
2-7/8"	6.5	SURFACE	644'				

MISCELLANEOUS PERFORATIONS

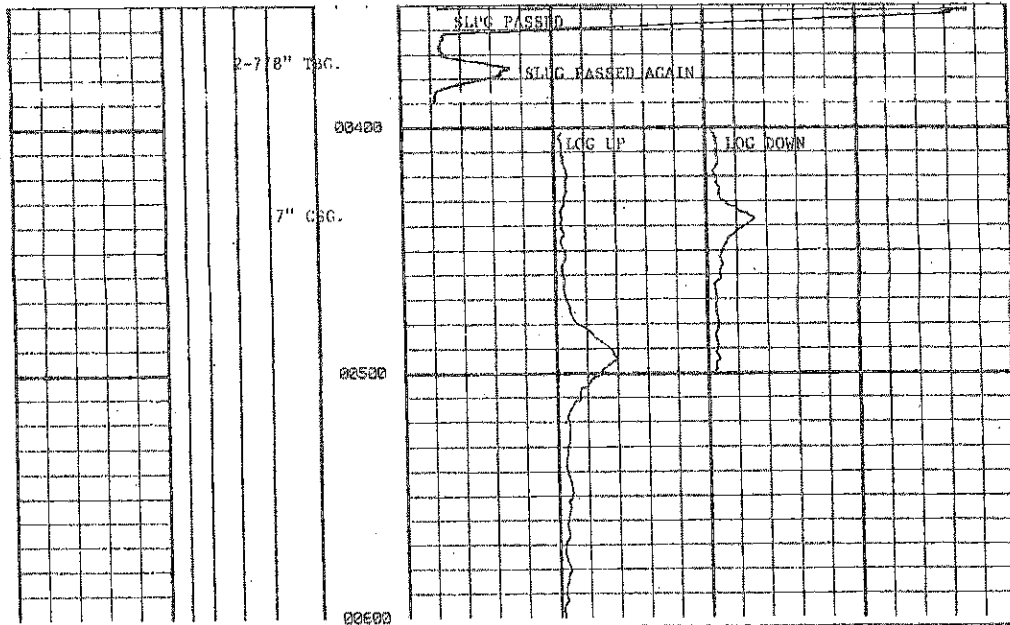
PACKER AT	644'	920'-1150'
CHOKED AT		
NO-GO AT		
SLEEVE AT		
PUMP AT		

DEPTHS	120	TEMPERATURE SCALE IN DEG. F	145
CASING COLLARS	450	550	
		VELOCITY CHECKS	3000 - WATER RATES B/D - 4000

TEMPERATURE	D.C. AT 50' - 250'
	D.C. AT 400' - 600'
2-7/8" P.C.	
7" CSG.	
08700	



REPEAT PACKER CHECK	DEPTHS	PACKER CHECK CASING VALVE OPEN SLUG OUT & BY AT 800', SLUG CAME BACK BY, THEN LOGGED UP IMMEDIATELY ...
		RADIATION INCREASES==>



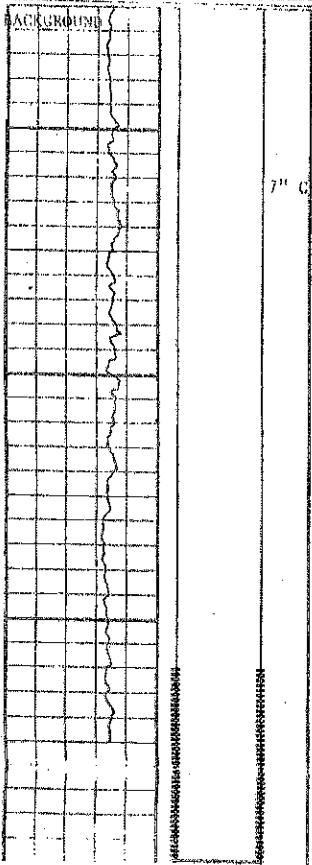
	DEPTHS	TOP PERF CHECK SLUG OUT & BY AT 850', WAITED 60 SEC., THEN LOGGED DOWN ...
		RADIATION INCREASES==>

BACKGROUND

SLUG PASSED

RADIATION INCREASES\*\*\*>

BACKGROUND



7" CSG.

00700

00600

00500

SLUG PASSED

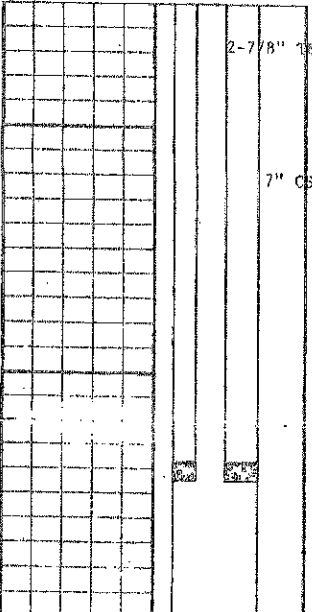
LOG UP

LOG DOWN

DEPTH

PACKER CHECK CABINE VALVE OPEN  
SLUG OUT & BY AT 680', WAITED 60 SEC., THEN LOGGED  
DOWN ...

RADIATION INCREASES\*\*\*>



2-7/8" CSG.

00500

00600

7" CSG.

SLUG PASSED

SLUG PASSED AGAIN

LOG DOWN

LOG UP

Company THOMAS OIL COMPANY Field MT. POSO

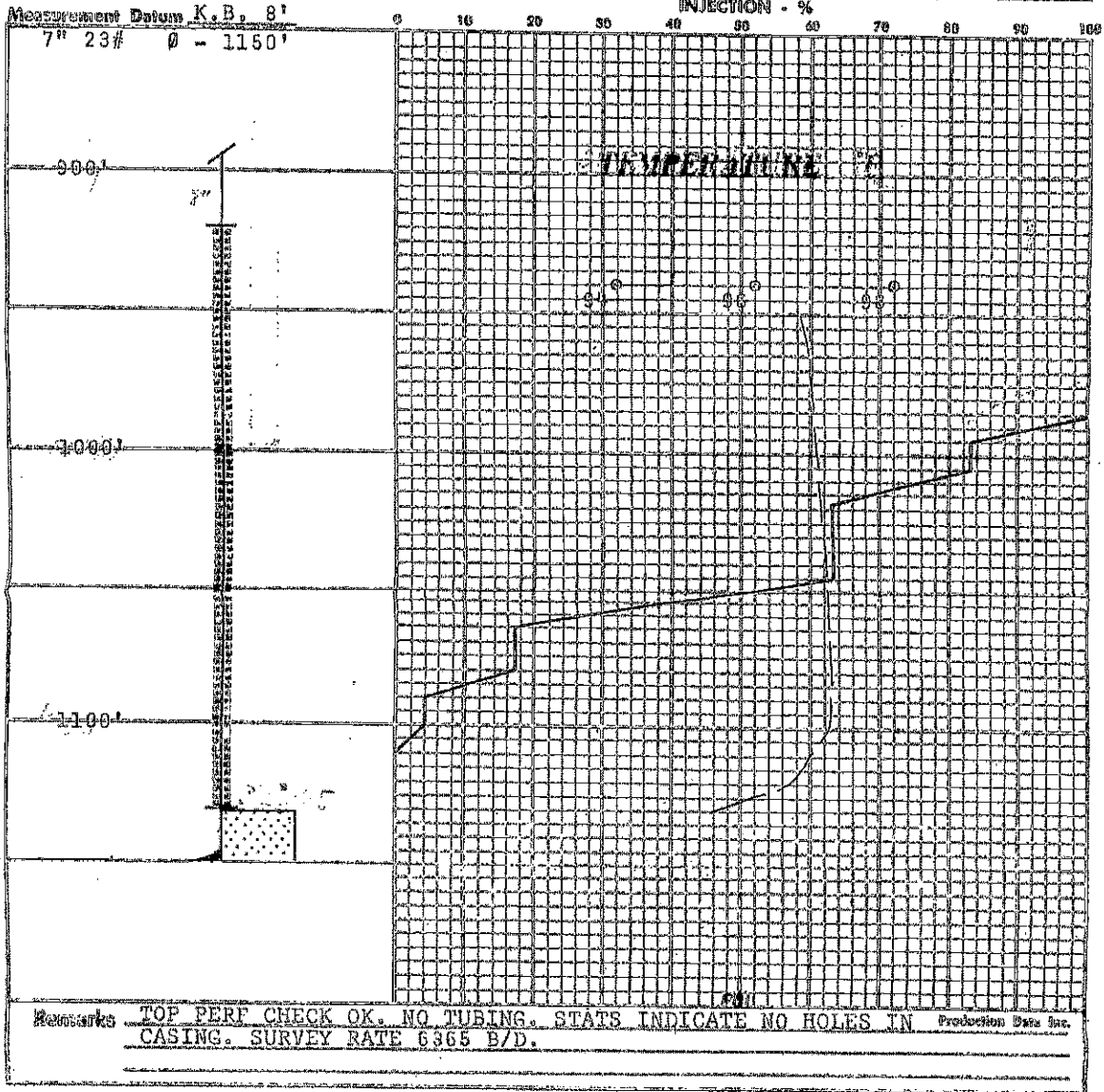
Well No. RING 20-3

**SURVEY DATA**

**INJECTED FLUID-B/D**

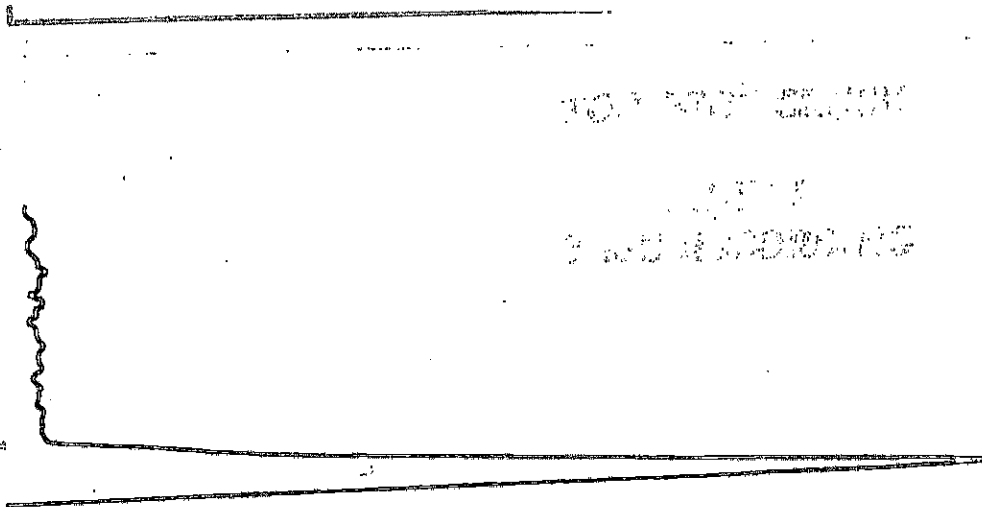
RUN NO.	ONE				
Type Survey	R/A S-T				
Date	8-5-51				
Well Date	EUBEL				
Ref. Press.					
Vid. Log	1131				
Log	19				
Sur/Top. Cont.	See RMRS				
Service Co.	PDI				

SAND									



9900'

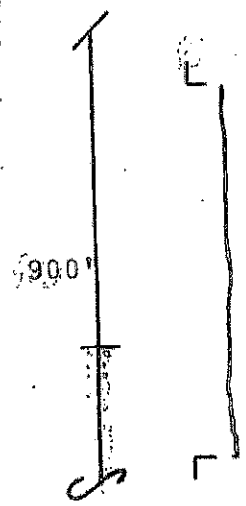
7.60



10' 0" SECTION

10' 0" SECTION

SECTION 10' 0" SECTION 10' 0" SECTION 10' 0" SECTION 10' 0" SECTION 10' 0" SECTION

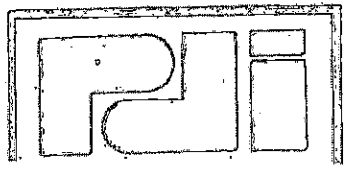


SECTION 10' 0" SECTION

SECTION 10' 0" SECTION



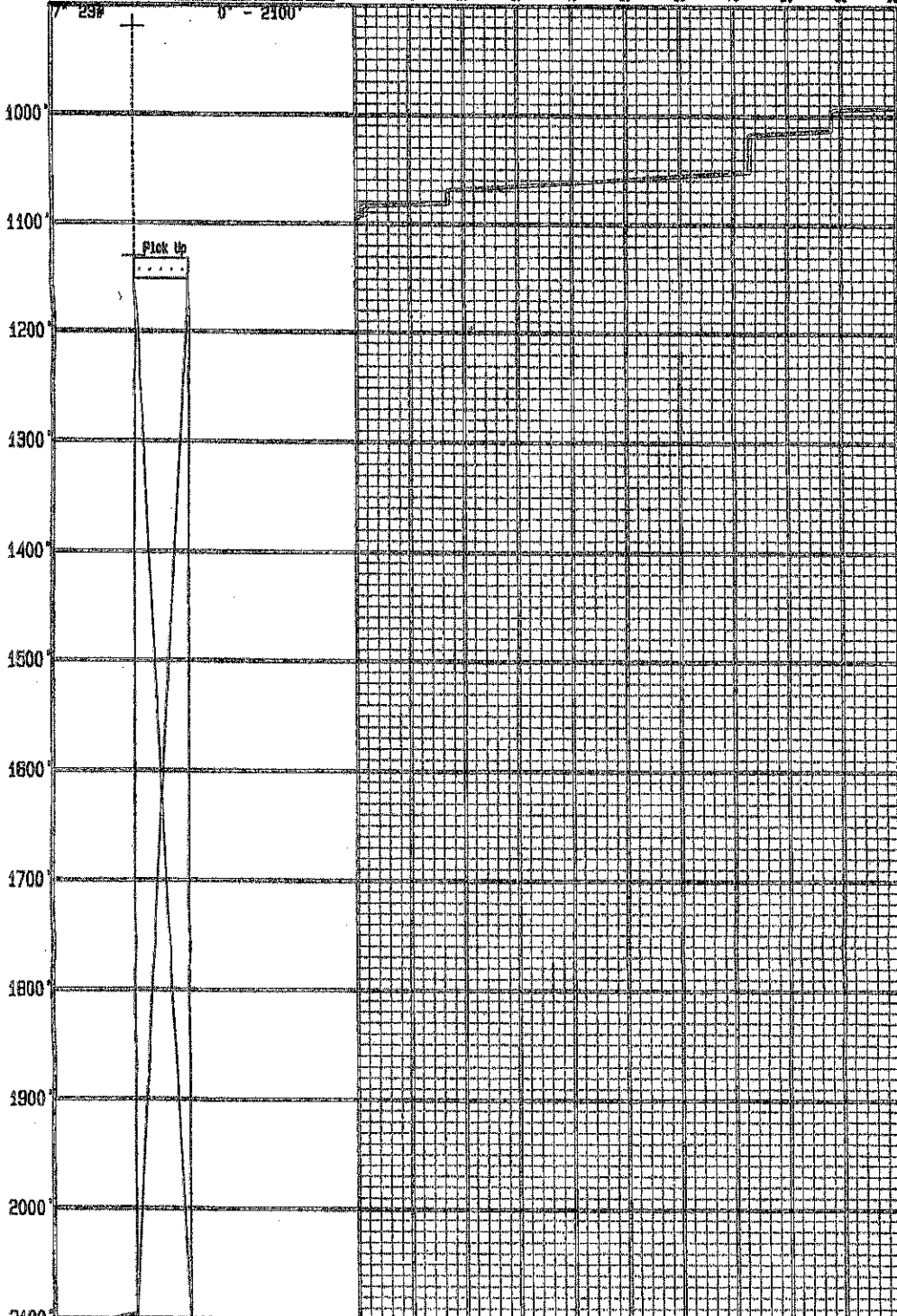
SECTION 10' 0" SECTION



**SURVEY DATA**

RUN NO.	ONE
Type survey	H/A B-T
Date	7 - 22 - 52
Injection Rate	6000 B/D
Injection Pressure	180psi
Pick-up or Greatest Depth Attempted	1185'
API	18
Surf. Top Perf. Chk.	OK
Service Co.	POY

Measurement Datum R.B. B.      0    30    60    90    120    150    180    210



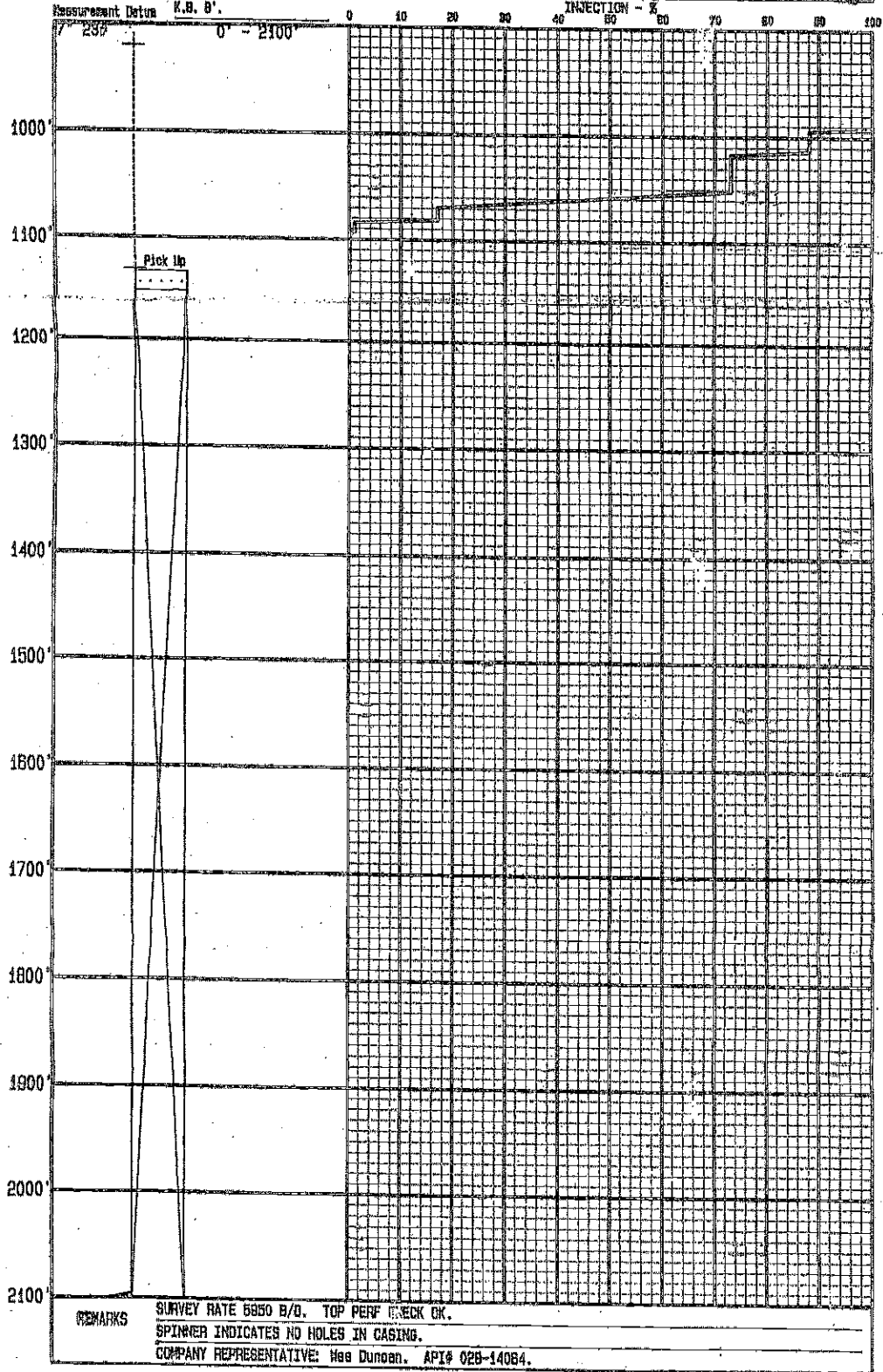
REMARKS SURVEY RATE 6880 B/D. TOP PERF CHECK OK.  
 SPINNER INDICATES NO HOLES IN CASING.  
 COMPANY REPRESENTATIVE: Meg Duncan. API# 02B-14084.

PRODUCTION DATA, INC.



**SURVEY DATA**

RUN NO.	ONE
Type survey	B/A 9-T
Date	7 - 20 - 68
Injection Rate	8000 B/D
Injection Pressure	1200psi
Pick-up or Greatest Depth Attempted	1182'
API	1B
Perf/Top Perf. Chk.	OK
Service Co.	POI



PRODUCTION DATA, Inc.

# AGNEW PORE SWEET

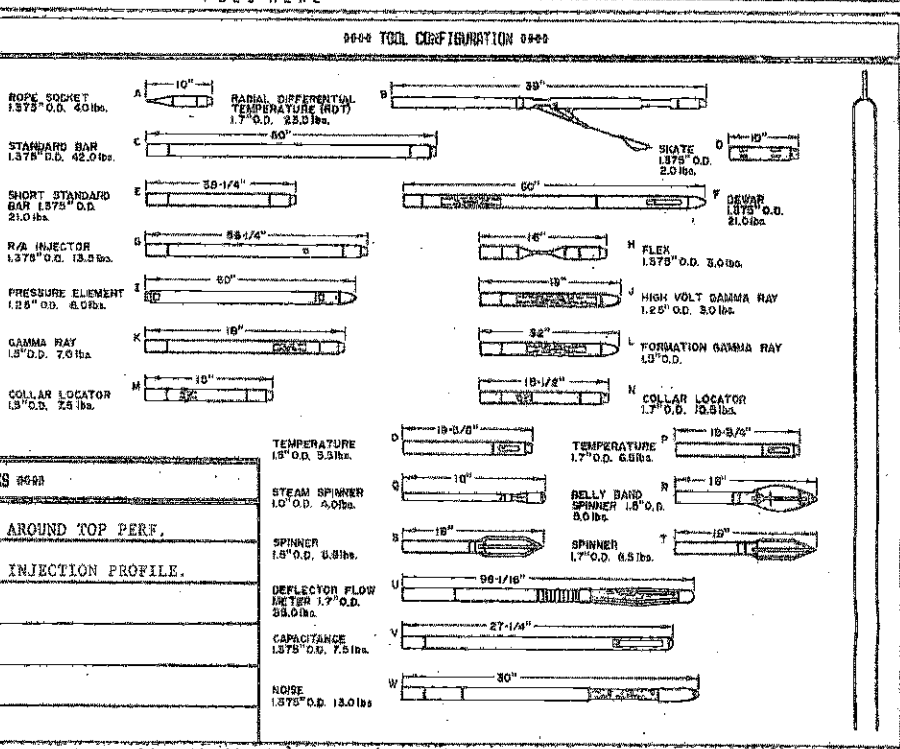
## PRODUCTION LOGGING

### Water Injection Survey

COMPANY: <b>MAGPHESSION OIL COMPANY</b>		WELL: <b>SEC 20 RING #3 FIELD</b>		NE POSD		STRIE: <b>JA</b>		#4 B EXORTIONS #4	
COUNTY: <b>KERN</b>		LOG SHEET: <b>7-0-86</b>		PRESSURE: <b>FLUING</b>		INJECTION: <b>SHUT-IN</b>		ELE: _____	
LOG NUMBER: <b>7-0-86</b>		C/L: <b>G/L</b>		TUBING PSI: <b>1000#</b>		OILING PSI: <b>300#</b>		H.R. _____	
LOG RESERVOIR: <b>K.B. 2'</b>		EFFECTIVE DEPTH: <b>1150'</b>		INJECTION RATE: <b>1.8857 B/D</b>		* PRODUCTION RATE *		D.F. _____	
PICK-UP DEPTH: <b>1070'</b>		PICK-UP INTERVAL: <b>1070'</b>		DESIGNED RATE: <b>8.911 B/D</b>		OIL = _____		B.L. _____	
TOP LOGGED INTERVAL: <b>200'</b>		TYPE OF INJECTION: <b>WATER</b>		ACTIVITY = <b>5</b>		BBS = _____			
TYPE FLUID IN WELL: <b>WATER</b>		OIL GR. = _____		BBS GR. = _____		HCF/D = _____			
FLUID LEVEL: <b>SURFACE</b>		HCF LIFE = <b>8.08 DAYS</b>		BHP = _____		PSI = _____			
WELL STATUS: <b>INJECTING</b>		SIZE: <b>7"</b>		SEI: <b>234</b>		FREQ: <b>0</b>		TO: <b>2100'</b>	
MAX. TEMP. @ DEPTH: <b>114.5° @ 1070'</b>		TEMPERATURE SENS.: <b>2" INCH</b>		VARIATIONS: <b>VARIOUS</b>		RECORD BY: <b>BERNARD KUNIZGIUREN</b>		WITNESSED BY: <b>W. DUNCAN</b>	
DEPTH CORRECTIONS: <b>CASING COLLARS</b>		CASING COLLARS: <b>920'-1130'</b>		*** RECORDED LOGS ***					

#### LOGGING EQUIPMENT

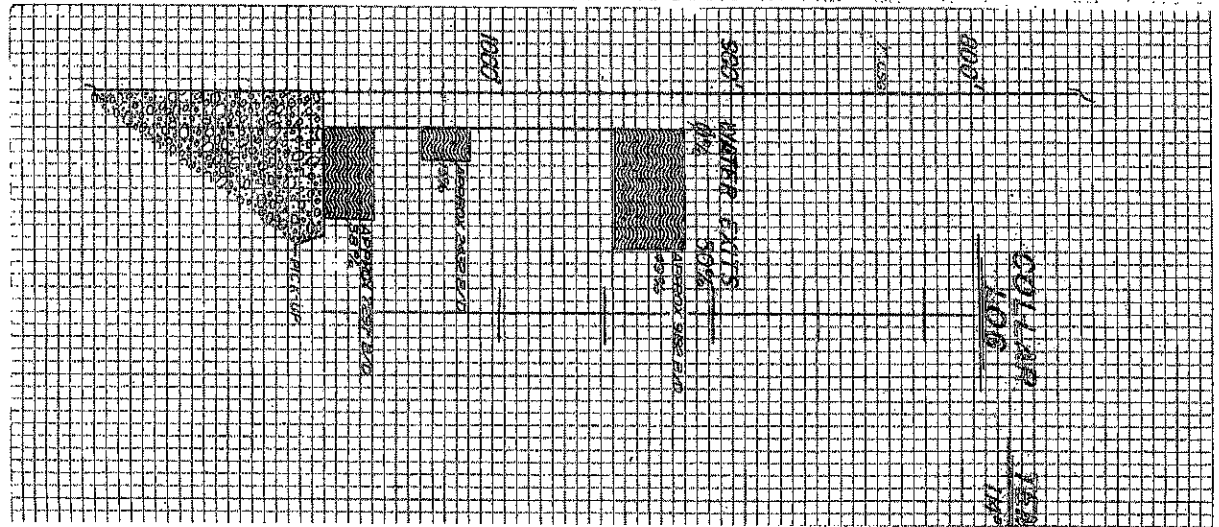
TOOL	SERIAL No.	DIAMETER
R/A INJECTOR	N/A	1.5"
COLLAR LOCATOR	N/A	1.5"
TEMPERATURE	N/A	1.5"
GAMMA RAY	N/A	1.5"
SPINNER	N/A	1.5"



#### RESULTS AND REMARKS

SURVEY INDICATES NO MIGRATION AROUND TOP PERF.

PLEASE SEE DRAFTED SURVEY FOR INJECTION PROFILE.



TEMPERATURE LOG  
1740  
1760  
1780

RADIOACTIVE  
VELOCITY CHECKS  
WATER RATES B/LD  
0 1000 20000

DC AT 2500-3000

FLOW-METER

DISCONTINUING

TOP PERFORM CHECK

2 THE DRIVE  
4 SLUG OUT AT 750' DROPPED  
DOWN TO 800' WAIT 120 SEC

SLUG PASSED  
SLUG PASSED

0 SEC

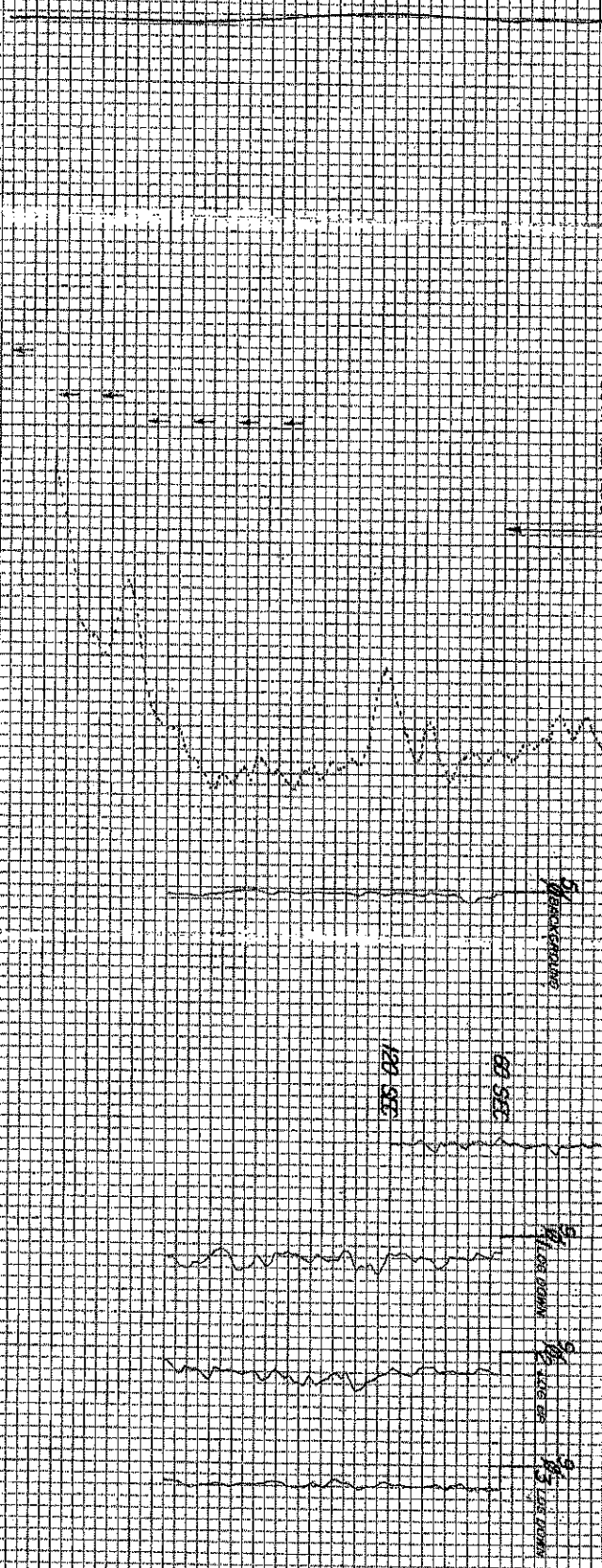
60 SEC

120 SEC

5  
11.000 DOWN

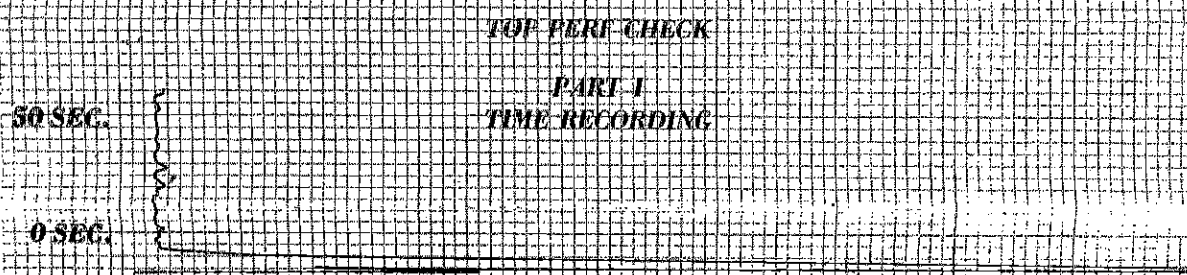
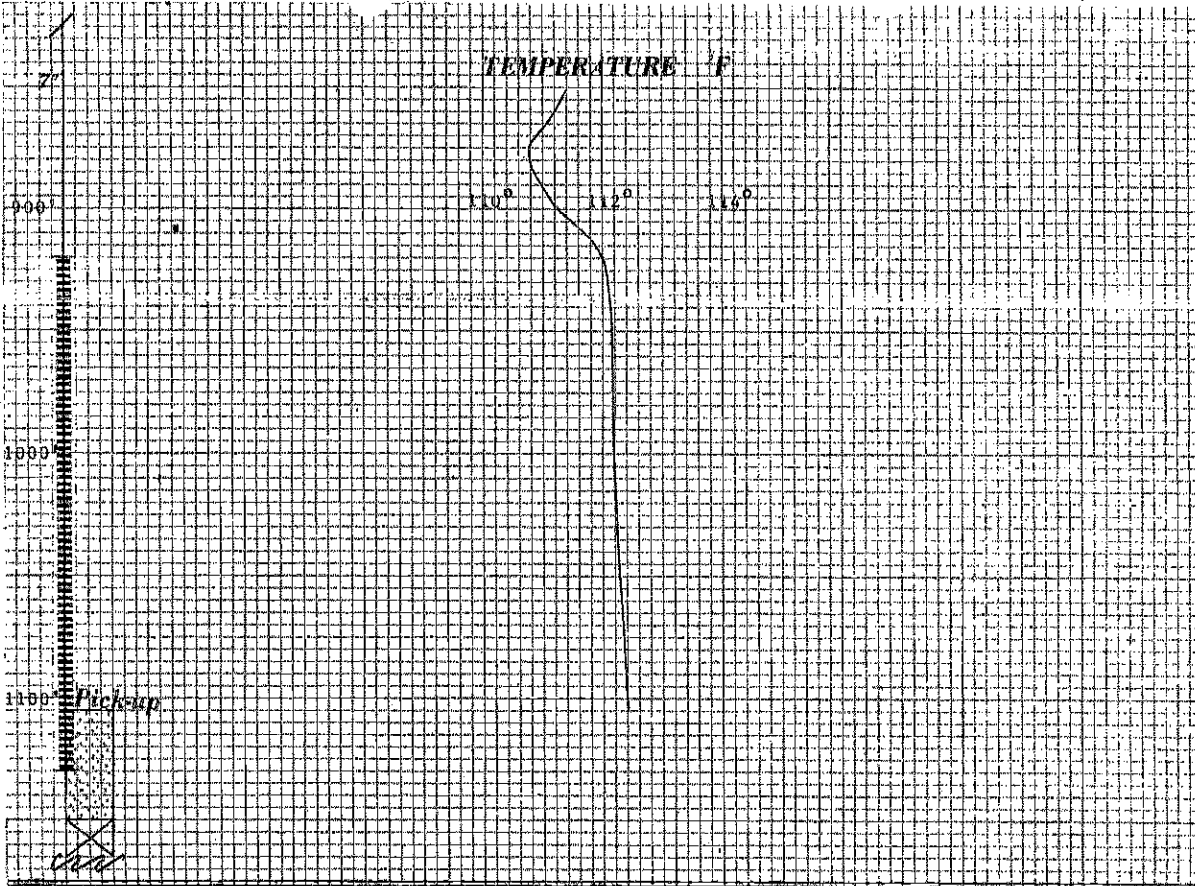
8  
12.200 DS

8  
13.400 DOWN

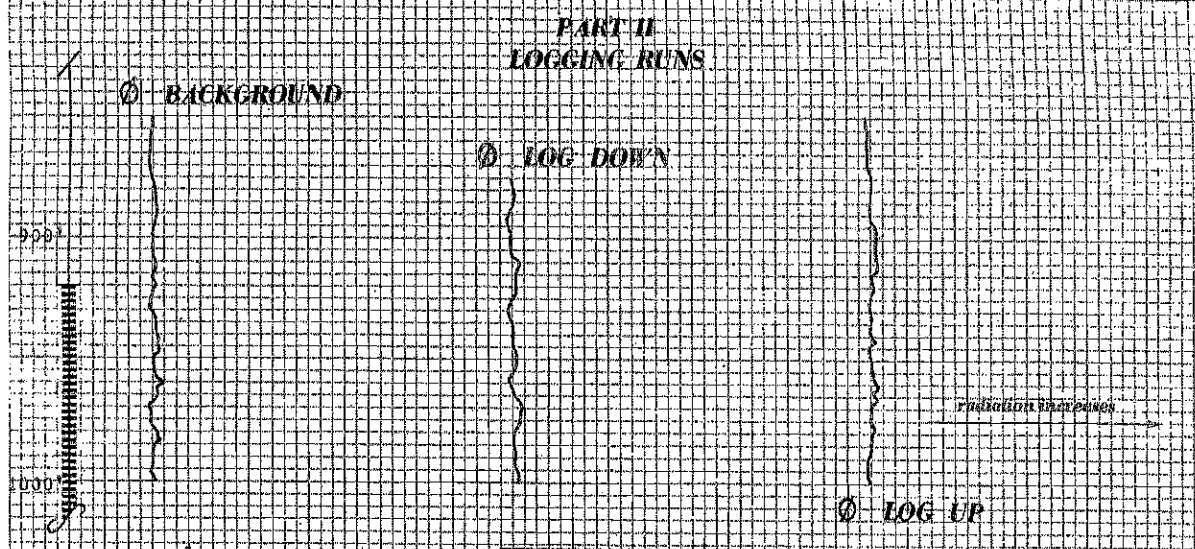






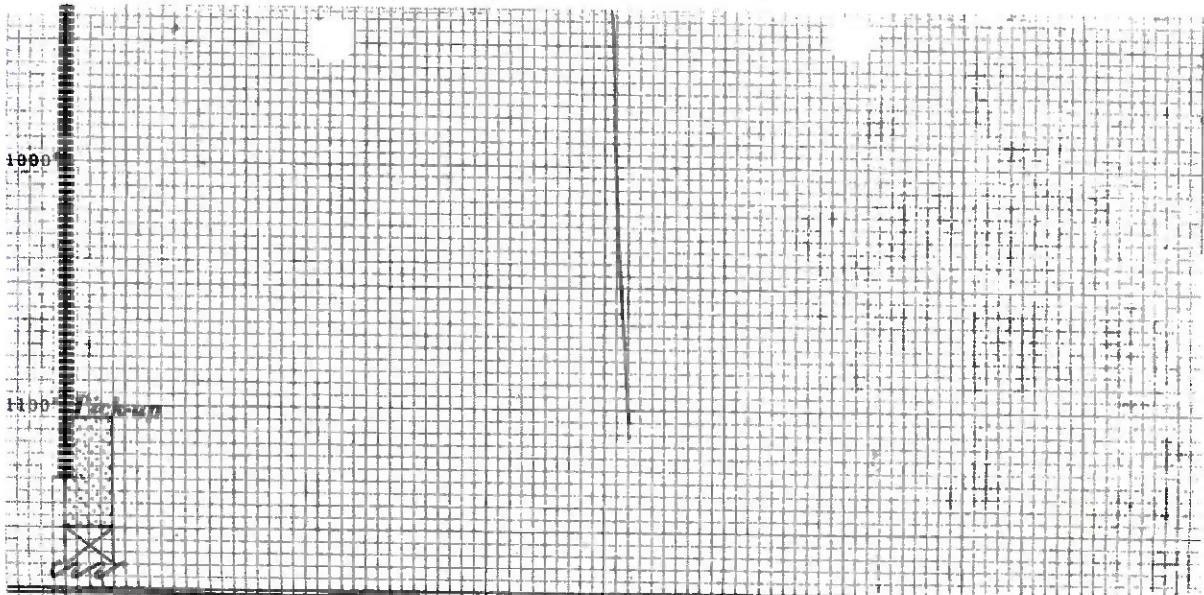


TOP PERF CHECK @ 8757 INJECTED R/A SLUG OUT  
 AND BY WAITED 60 SEC. THEN LOGGED DOWN.



TOP PERF CHECK OK





**TOP PERF CHECK**

**PART I  
TIME RECORDING**

50 SEC.

0 SEC.

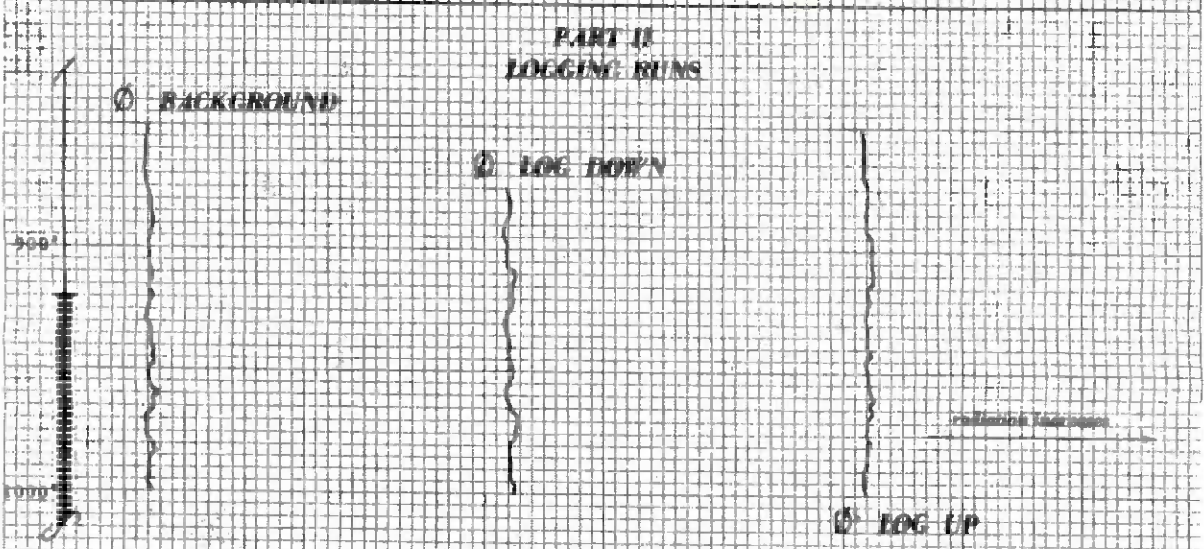
**TOP PERF CHECK @ 11:35 AM INJECTED R/A SLUG OUT  
AND BY WAITED 60 SEC. THEN LOGGED DOWN.**

**PART II  
LOGGING RUNS**

① BACKGROUND

② LOG DOWN

③ LOG UP



**TOP PERF CHECK OK**



TOP PERF CHECK

TOP PERF CHECK @ .875'. INJECTED R/A SLUG OUT AND BY.  
WAITED 60 SECONDS. THEN LOGGED DOWN.

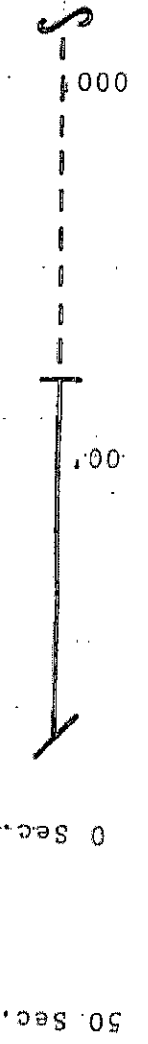
LOGGING RUNS

LOG DOWN

LOG UP

TOP

BACKGROUND



MAGPHERSON OIL CO.

RING #3

MT. POSO

KERN CALIFORNIA

20 278 288

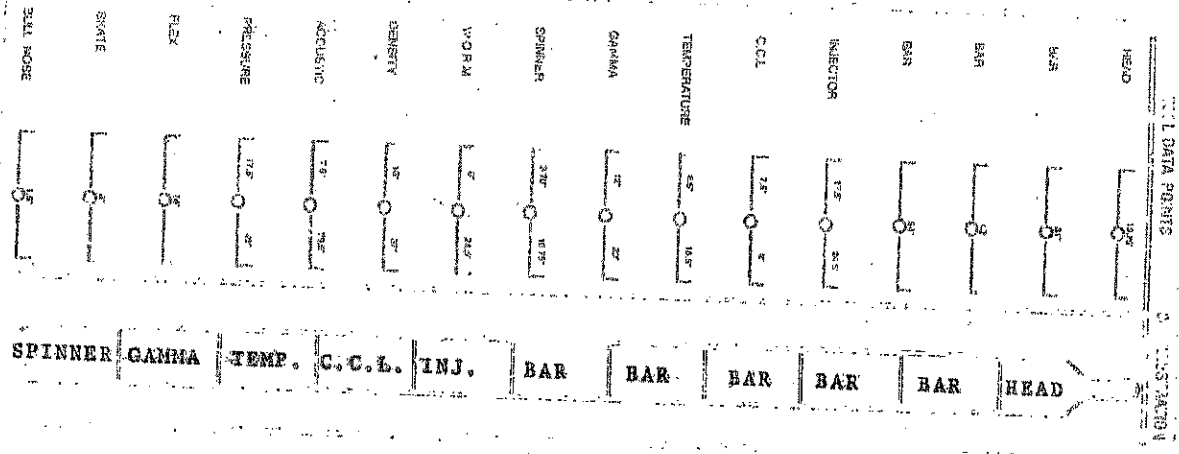
Shipment Order  
No. Request from K.B.  
Date of Shipment 8  
To: Mr. Poso

ONE INJECTION 74 288 2100  
6-4-84  
1105  
1102  
850  
PIGGED BACK @ 1150  
WATER

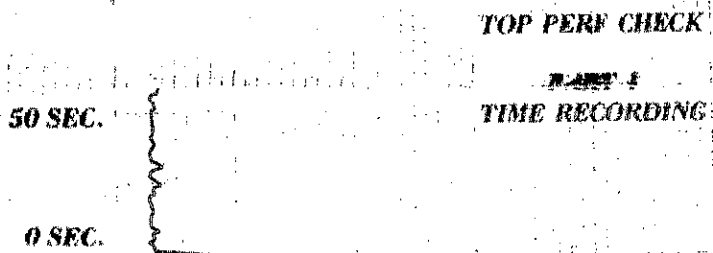
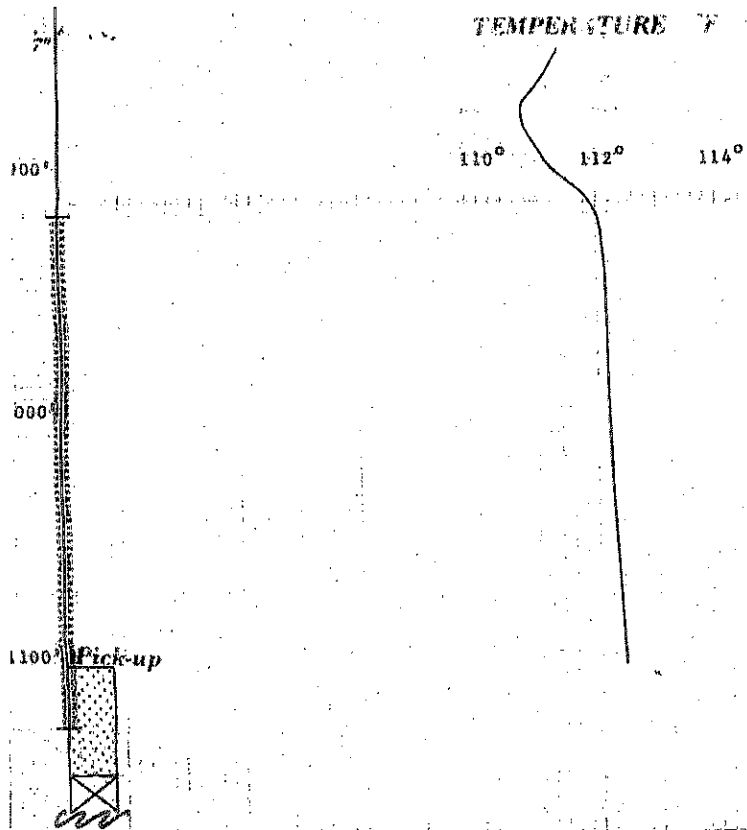
RECEIVED BY  
MR. WES. DUNCAN

ONE INJECTOR - GAMMA 68  
C.C.L. = TEMP. 2  
G.C.L. = GAMMA 4  
E.C.L. = SPIN. 2  
OVERALL = 17  
37,000 B/D

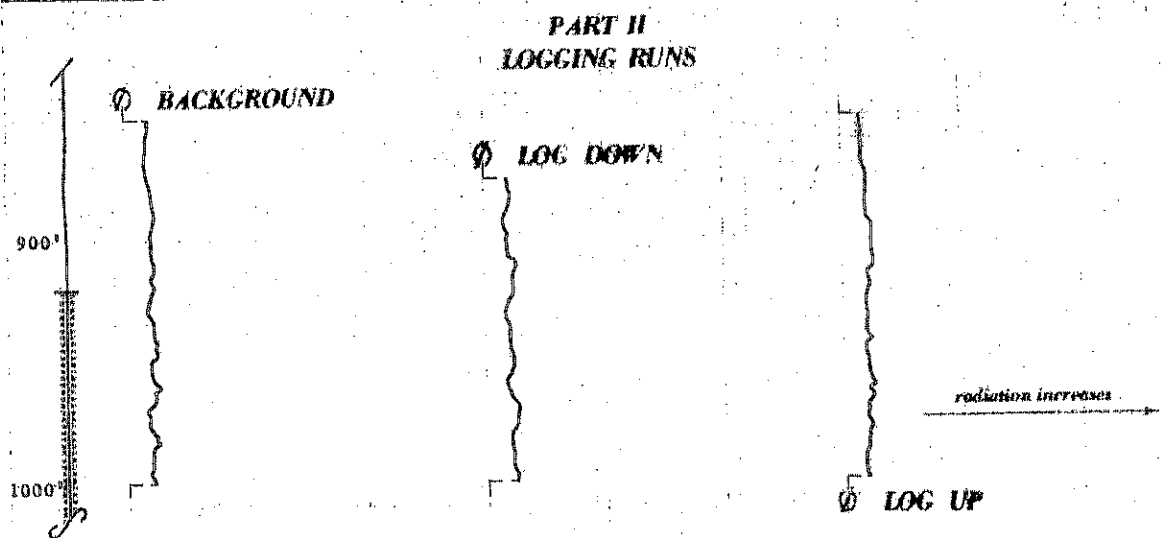
FOR FERRY CHECK OK. SPINNER INDICATED NO HOLES IN CASING. SPINNER STATS AVERAGE 37,144 B/D



110° 112° 114°



TOP PERF CHECK @ 875' INJECTED R/A SLUG OUT  
AND BY. WAITED 60 SEC. THEN LOGGED DOWN.

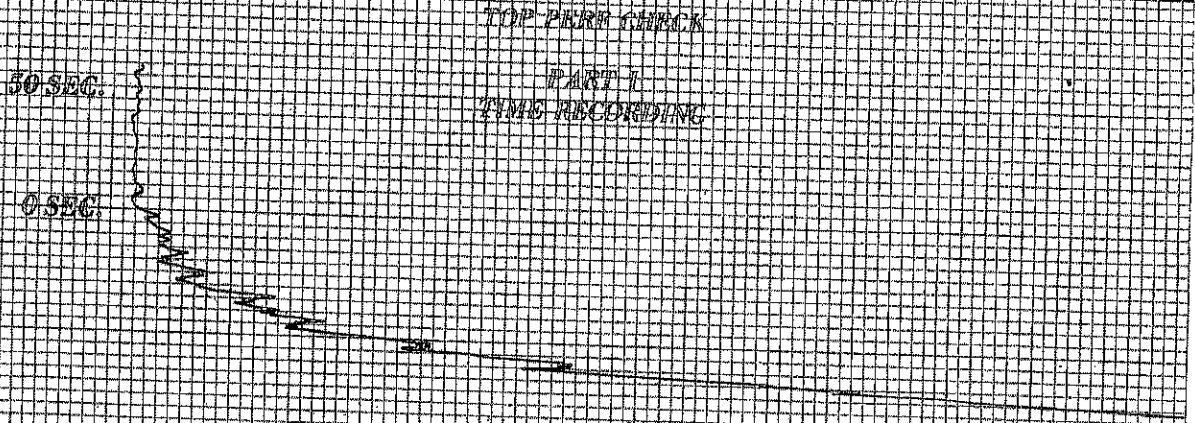


TOP PERF CHECK OK



0 5000 10000 15000 20000 25000

WATER RATE B/D



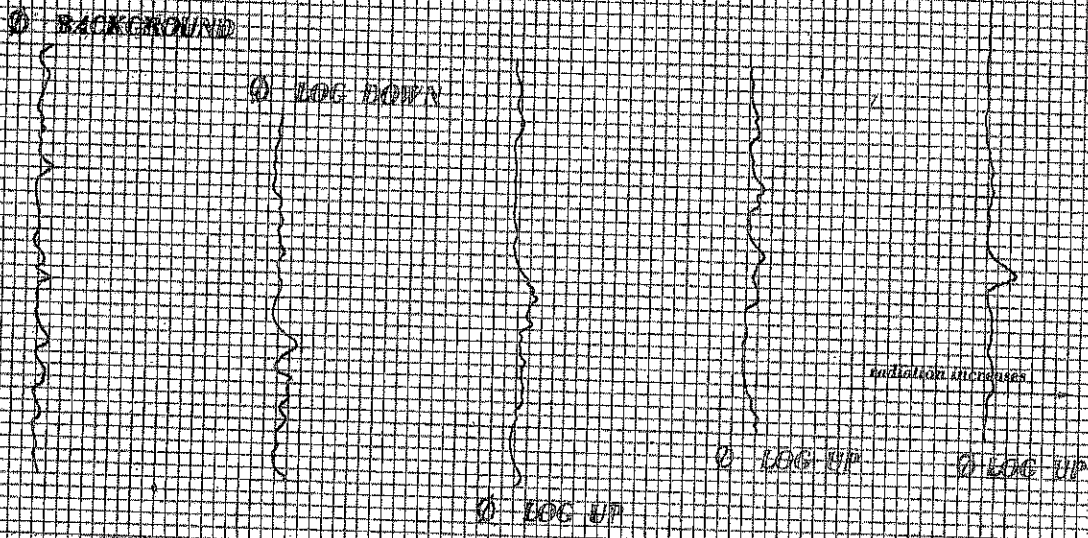
TOP PERM CHECK @ 8151, INJECTED R/A SLOG OUT AND RM. WAITED 60 SEC. THEN LOGGED DOWN.

PART II LOGGING RUNS

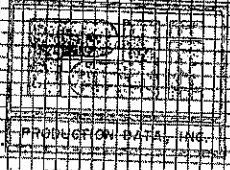
8000

840

1000



TOP PERM CHECK OK



# INJECTION PROFILE



COMPANY: MACHELSON OIL CO.  
 WELL: RING #3  
 FIELD: MT. POSO  
 COUNTY: KEERN  
 STATE: CALIFORNIA

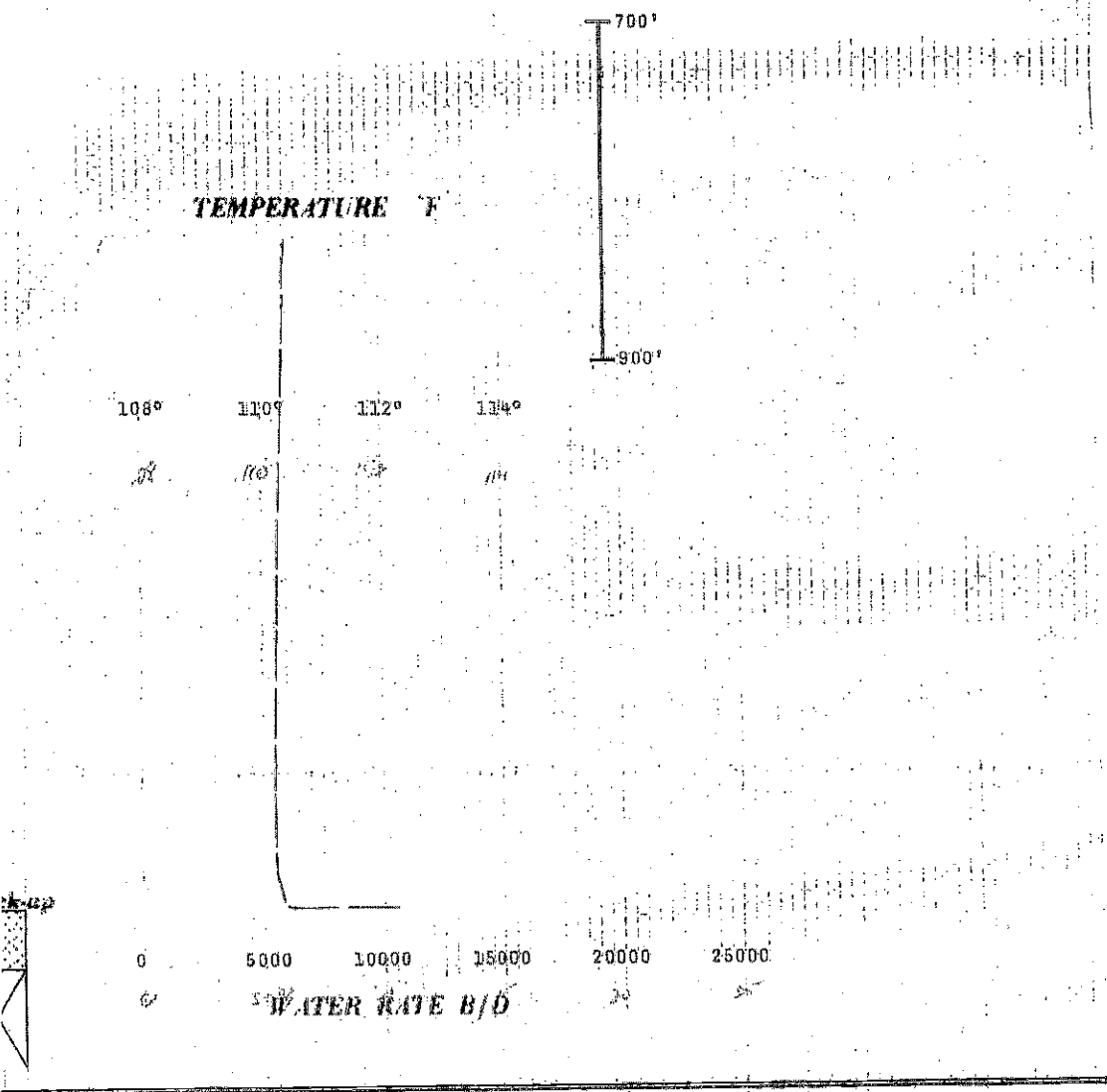
SEC: 18 TWP: 21S RAS: 28E  
 1st Down: K.B.  
 2nd Down: B. Ft. Above Permanent Datum: 10'

Log	Time	Pressure	Temperature	Flow
ONE	6-1-83			
INJECTION				
	1126'			
	1123'			
	800'			
	112-20'			

CASING & TUBING RECORD:  
 ONE INJECTION 7" 23# 6' 2100'  
 WATER PILING @ 1150'  
 TUBING: 1 1/2" 10' 920'-1130'  
 HEADER: MR. WES. DIMCUM

UNIT NO.: 6  
 INJECTING: 2209  
 TOOL SIZE: 7/8"

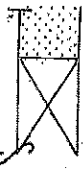
OPERATOR: J.H. PSI  
 DATE: 22971 B/D  
 TEMP BREAK @ 1125'



TOP PERF CHECK

PART I  
TIME RECORDING

C.



0 10000 15000 20000 25000

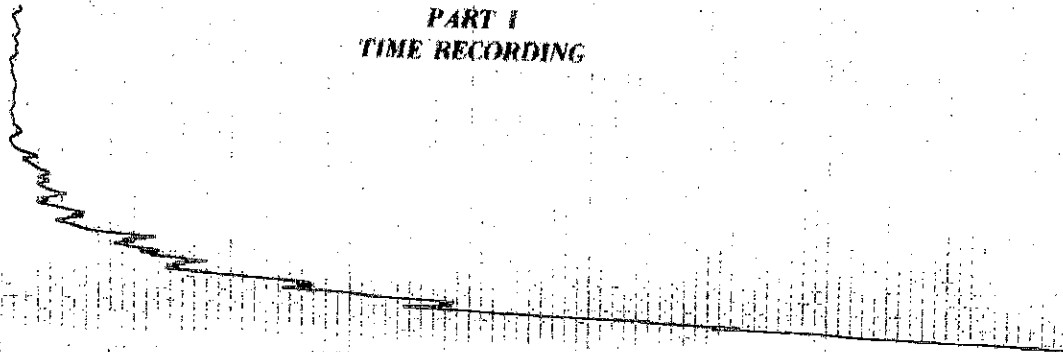
WATER RATE B/D

**TOP PERF CHECK**

**PART I  
TIME RECORDING**

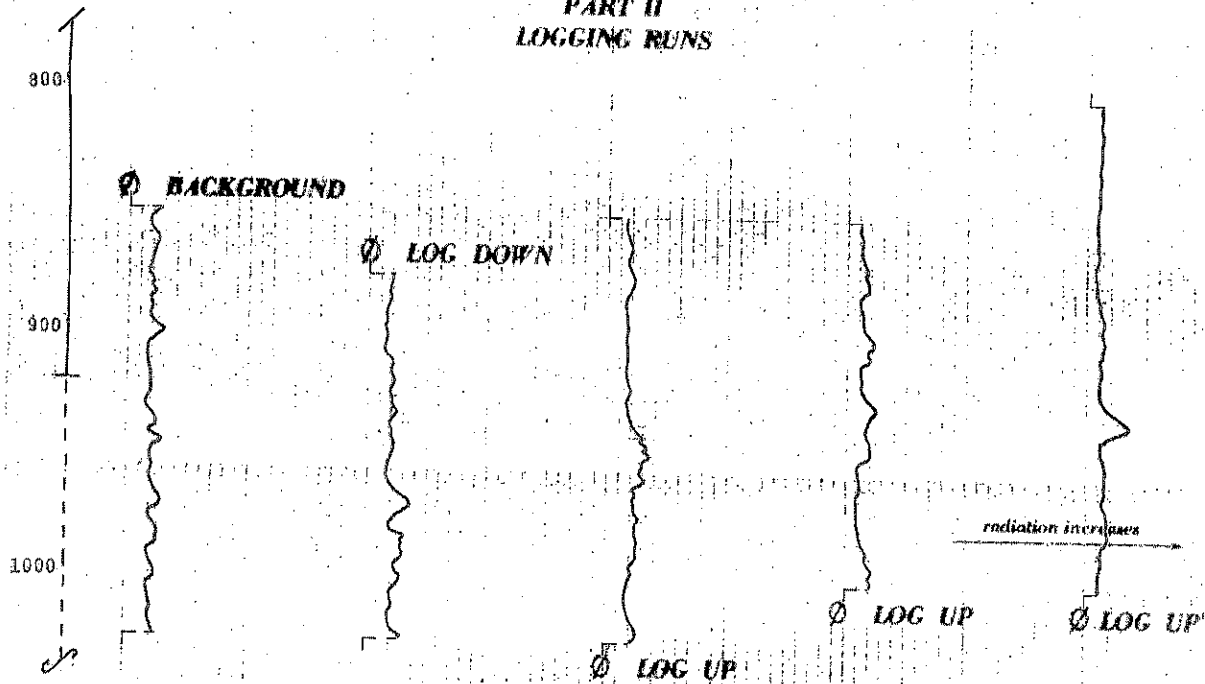
50 SEC.

0 SEC.



**TOP PERF CHECK @ 875' INJECTED R/A SLUG OUT  
AND BY. WAITED 60 SEC. THEN LOGGED DOWN.**

**PART II  
LOGGING RUNS**



**TOP PERF CHECK OK**



# WELACO

PRODUCTION LOGGING

## Water Injection Survey

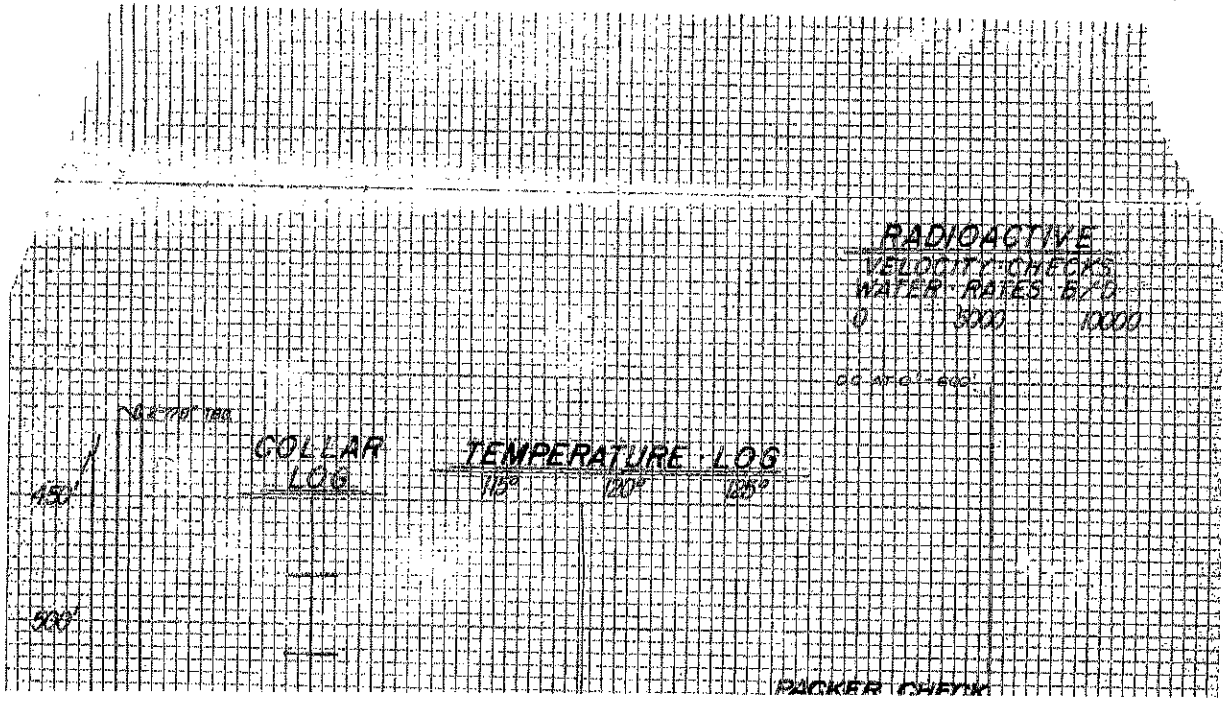
Company: **MACPHERSON OIL COMPANY**  
 Well: **RING # 3**  
 County: **KERN S-20 T-27S, R-29E**  
 State: **CALIFORNIA**

Field: **WEST MT. POZO**  
 Date Logged: **5-30-90**  
 Packer @ **5/4'**  
 Log Measured From: **K.B. 10'**  
 Effective Depth: **1130'**  
 Backup Depth: **1016'**  
 Section Logged Interval: **1016'**  
 Top Logged Interval: **600'**  
 Type of Injection: **WATER**  
 Type of Fluid in Well: **WATER**  
 Fluid Level: **STAIRCASE**  
 Well Status: **INJECTING**  
 Run Per Temp & Depth: **118° @ 1016'**  
 Temperature Spans: **5°/INCH**  
 Logging Speed: **VARIABLES**  
 Recorder: **MINILOG-CURBEN**  
 Witnessed By: **WESS DUNCAN**  
 Previous Log: **PREVIOUS LOG**

Pressure: \_\_\_\_\_ Flowing: \_\_\_\_\_ Injection: \_\_\_\_\_ Shutin: \_\_\_\_\_  
 Tubing psi: \_\_\_\_\_ Casing psi: \_\_\_\_\_ Vent: \_\_\_\_\_  
 Injection Rate: \_\_\_\_\_ B/D: \_\_\_\_\_ Production Data: \_\_\_\_\_  
 Dissolved Rate S/G54: \_\_\_\_\_ B/D: \_\_\_\_\_ Oil: \_\_\_\_\_  
 Bld Source: \_\_\_\_\_ T-131: \_\_\_\_\_  
 Activity: \_\_\_\_\_ 5: \_\_\_\_\_  
 Half Life: \_\_\_\_\_ 8.08 days: \_\_\_\_\_  
 Casing and Tubing Record: \_\_\_\_\_

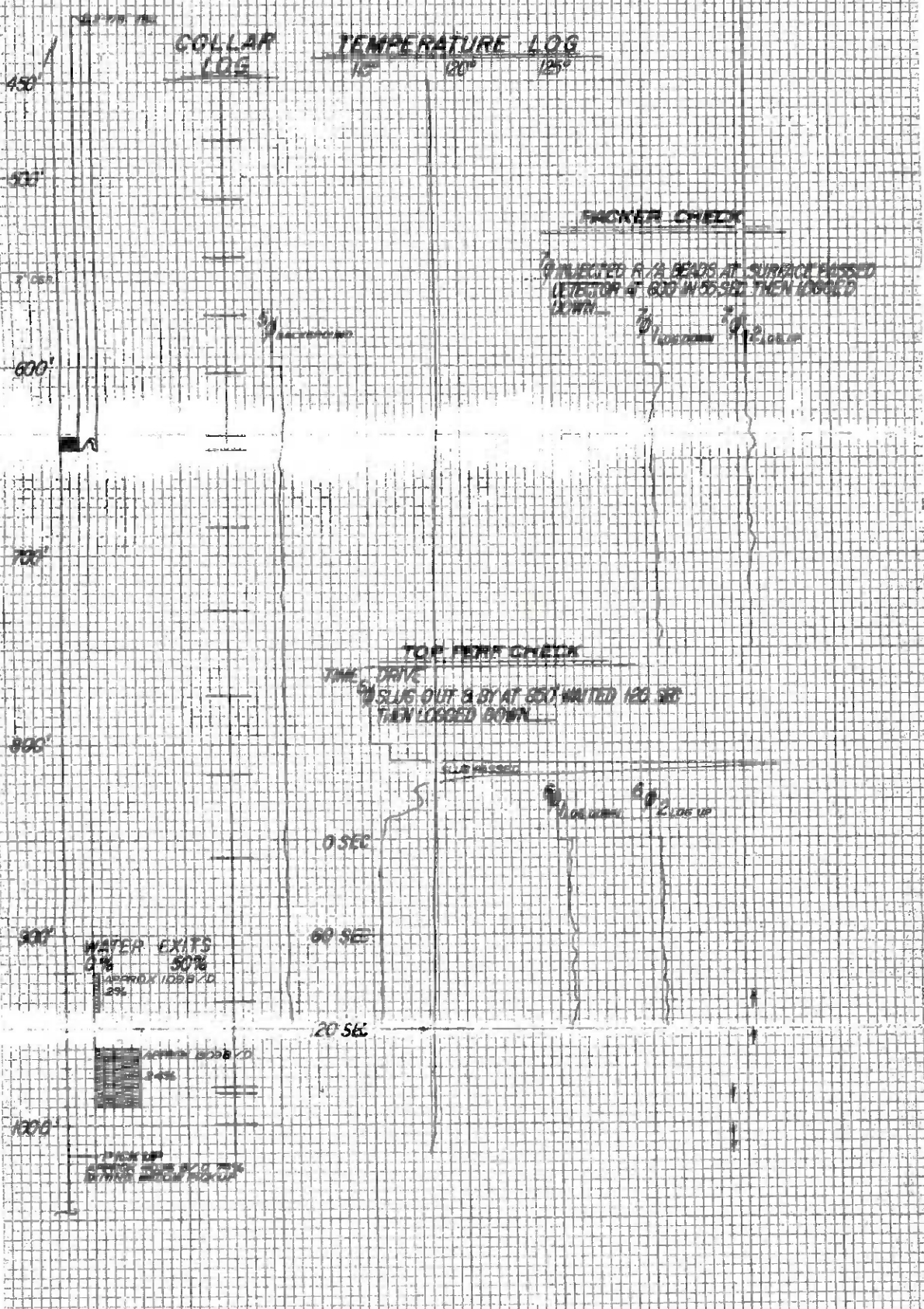
Miscellaneous: **Packer @ 5/4' 920'-1130'**

TOOL	SERIAL NO.	DIAMETER	RESULTS AND REMARKS
INJECTOR		1.5"	SURVEY INDICATES NO MIGRATION AROUND TOP PERF OR AT PACKER.
COLLAR LOCATOR		1.5"	INJECTION PROFILE: 920' - 940' APPROX. 109 B/D 2 %
TEMPERATURE		1.5"	APPROX. 4036 B/D 74 % EXITING BELOW PICKUP.
GAMMA		1.5"	APPROX. 960' - 990' " 1039 B/D 24%
			API No. 029-14064





DENSITY CHECKS  
 WATER RATES B/D  
 0 5000 10000



**COLLAR LOG**

**TEMPERATURE LOG**

**PACKER CHECK**

INJECTED B/A BEADS AT SURFACE PASSED  
 DETECTOR AT 630 IN 55 SEC THEN LOGGED  
 DOWN  
 LOG DOWN 2 LOG UP

**TOP PERF CHECK**

TIME DRIVE  
 SLUG OUT B BY AT 850 WAITED 120 SEC  
 THEN LOGGED DOWN

**SLUG IN**

LOG DOWN 60 SEC  
 2 LOG UP

**WATER EXITS**  
 0% 50%  
 APPROX 1000 B/D  
 2%

APPROX 1000 B/D  
 2%

PICK UP  
 AT 1000 B/D

# AGNEW and SWEET

PRODUCTION LOGGING

## Water Injection Survey

COMPANY: MACPHERSON OIL COMPANY  
 WELL: RING # 3-20  
 FIELD: MT. POZO  
 COUNTY: KEENE  
 STATE: CA

DATE LOG RUN: 5-24-89  
 LOG RECORDED FROM: C.L.  
 EFFECTIVE DEPTH: 2100'  
 PICK-UP DEPTH: 1045'  
 TOP LOGGED INTERVAL: 1045'  
 TYPE OF INJECTION: WATER  
 FLUID LEVEL: WATER

LOG RECORDED FROM: K.B.  
 EFFECTIVE DEPTH: 2100'  
 PICK-UP DEPTH: 1045'  
 TOP LOGGED INTERVAL: 1045'  
 TYPE OF INJECTION: WATER  
 FLUID LEVEL: WATER

WELL STATUS: INJECTING  
 R/A RES TEMP 2 @ DEPTH: 95.2° @ 1045'  
 TEMPERATURE SENS.: 3°/IN  
 LOGGING SPEED: VARIOUS  
 RECORDED BY: MONTICOREN  
 WITNESSED BY: W. DUNCAN

DEPTH CORRELATION

\*\*\* MISC. LOGS \*\*\*  
 DEPTH: 920-1130'

\*\*\* OPERATIONS \*\*\*

\*\*\* ELEVATIONS \*\*\*  
 ELEV. =  
 M.B. =  
 D.F. =  
 G.L. =

\*\*\* OBSERVED RATE \*\*\*  
 OBSERVED RATE: B/D  
 OIL = B/D  
 WATER = B/D  
 ACTIVITY = 5  
 R/A SOURCE = 1-131W  
 W/CF LIFE = 8.08 DAYS  
 RFP =  
 OIL GR. = 886 GR. =  
 RFP =

\*\*\* DOWNS AND TUBING RECORD \*\*\*

SIZE	WT.	FROM	TO
7"	23#	0'	2100'
2 7/8"		0'	645'

\*\*\* LOGGING EQUIPMENT \*\*\*

TOOL	SERIAL No.	DIA/METER
R/A INJECTOR	N/A	1.5"
COLLAR LOCATOR	N/A	1.5"
TEMPERATURE	N/A	1.5"
GAMMA	N/A	1.5"
SPINNER	N/A	1.5"

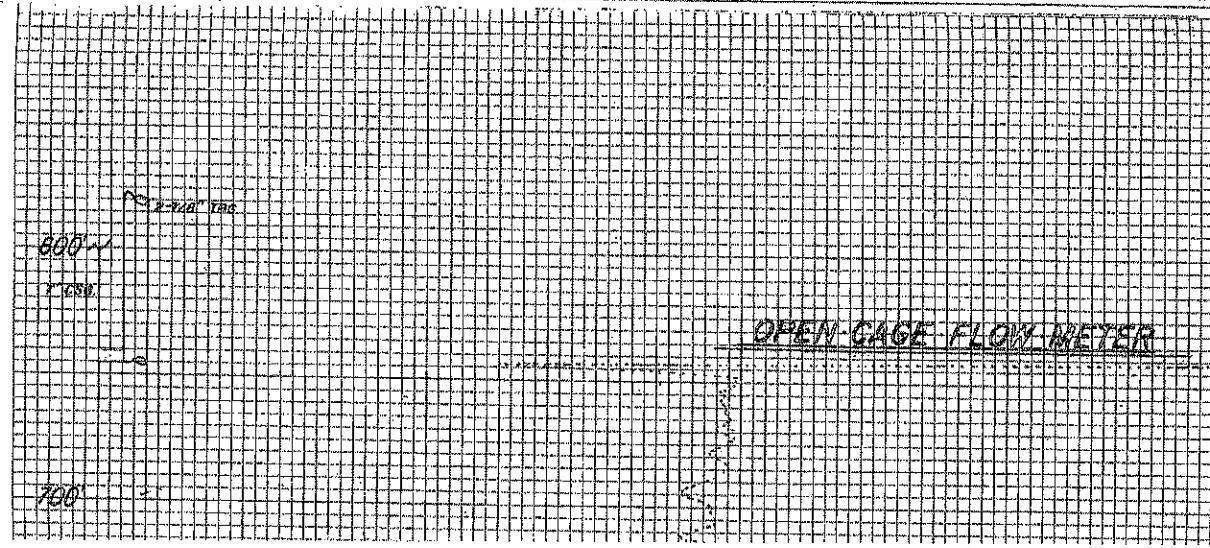
\*\*\* TOOL CONFIGURATION \*\*\*

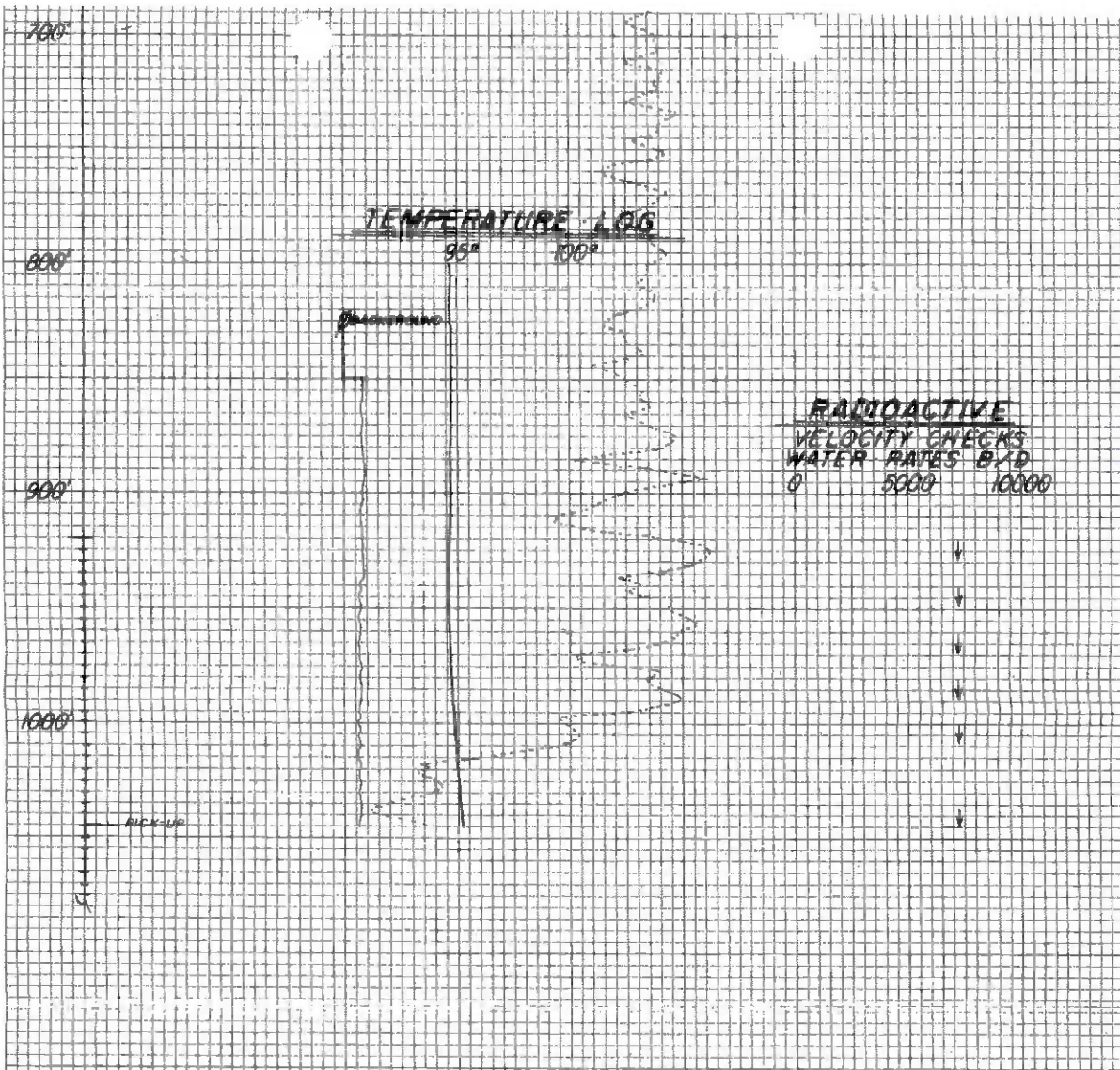
ROPE SOCKET 1.375" O.D. 40 lbs.  
 STANDARD BAR 1.575" O.D. 42.0 lbs.  
 SHORT STANDARD BAR 1.375" O.D. 21.0 lbs.  
 R/A INJECTOR 1.375" O.D. 18.5 lbs.  
 PRESSURE ELEMENT 1.25" O.D. 6.0 lbs.  
 GAMMA RAY 1.5" O.D. 7.0 lbs.  
 COLLAR LOCATOR 1.5" O.D. 7.5 lbs.

TEMPERATURE 1.5" O.D. 5.5 lbs.  
 STEAM SPINNER 1.0" O.D. 4.0 lbs.  
 SPINNER 1.5" O.D. 5.5 lbs.  
 DEFLECTOR FLOW METER 1.5" O.D. 35.0 lbs.  
 CAPACITANCE 1.375" O.D. 7.5 lbs.  
 NOISE 1.375" O.D. 15.0 lbs.

\*\*\* RESULTS AND REPAIRS \*\*\*

SURVEY INDICATES NO MIGRATION AROUND TOP PERF. POSSIBLE  
 INJECTION BELOW PICK-UP.



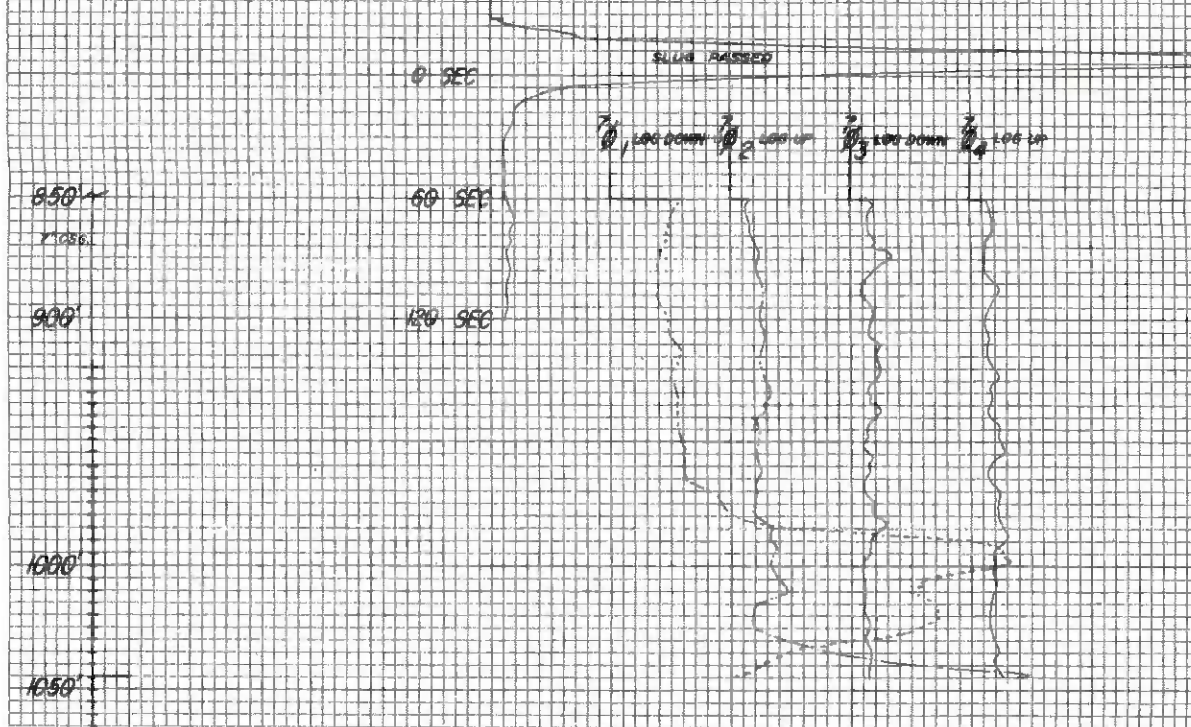


**RADIOACTIVE**  
**VELOCITY CHECKS**  
**WATER RATES B/D**  
 0 5000 10000

**TOP PERF CHECK**

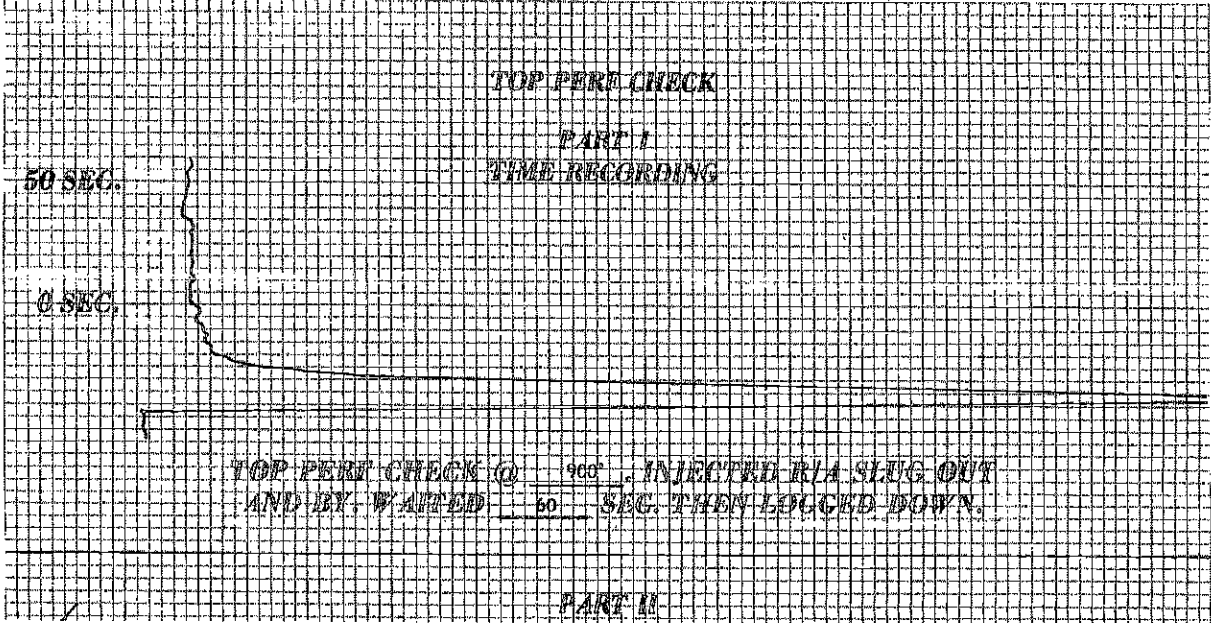
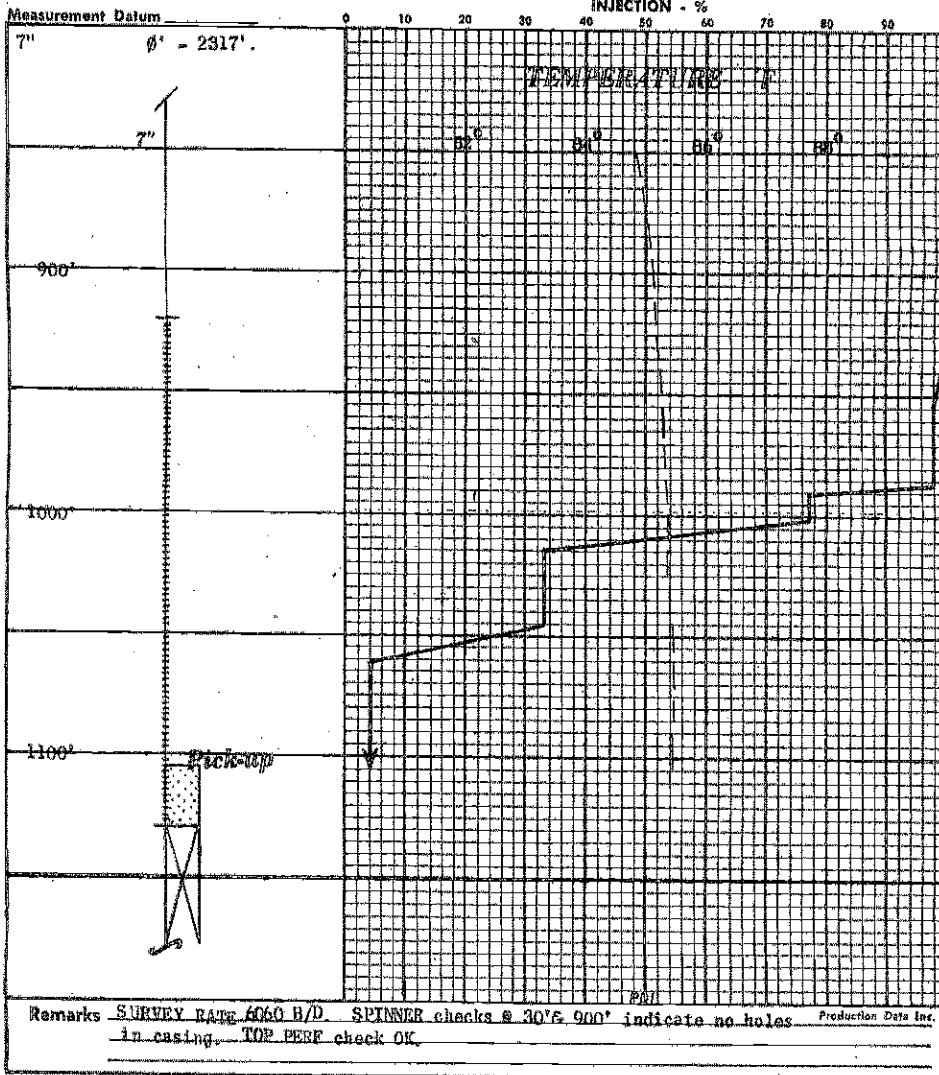
TIME DRIVE

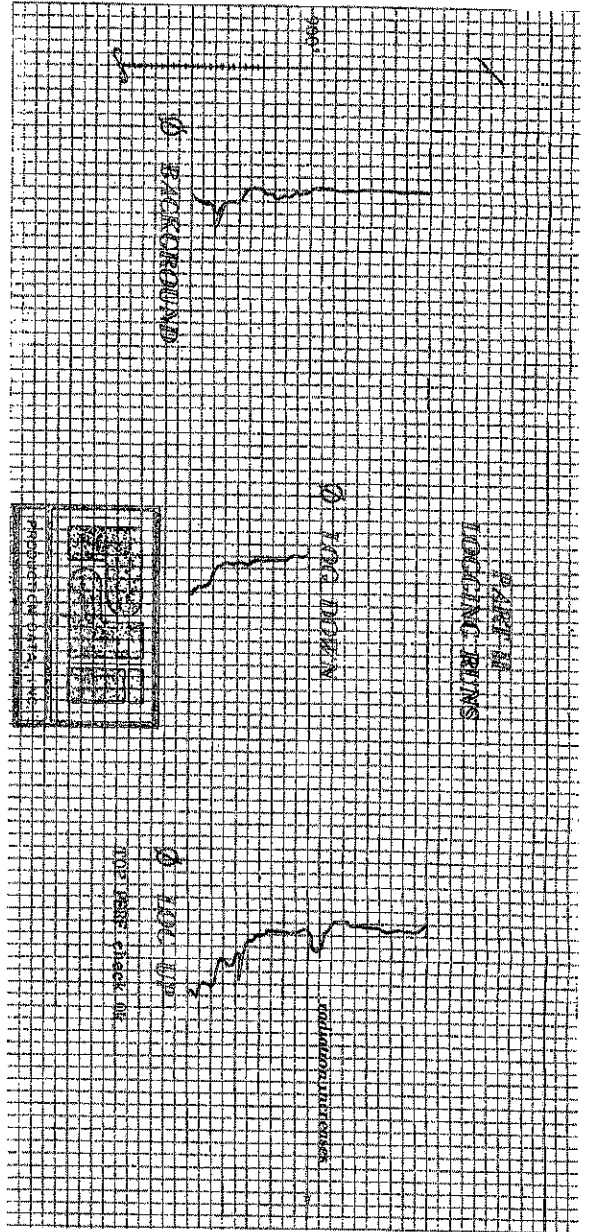
INJECTED R/A BEADS AT SURFACE. PASSED DETECTOR AT 850 WAITED 120 SEC. THEN LOGGED DOWN.



Company THOMAS OIL COMPANY Field MOUNT POSO Well No. "RING 20" - 3

SURVEY DATA				INJECTED FLUID-B/D			
RUN NO.	ONE			SAND			
Type Survey	R/A S-T						
Date	5-16-79						
Inj. Rate							
Inj. Press.	20psi						
Pickup	1105'						
Fill	28'						
Plr/Top Perf. Chk.	OK						
Service Co.	FDI						





SULLY PHOTOGRAPHY  
 100C

100C

100C



**INJECTION PROFILE SURVEY**

FILE NO.

COMPANY THOMAS OIL COMPANY

WELL 20-3

FIELD WEST MOUNT POSO

COUNTY KERN

STATE CALIFORNIA

LOCATION:

SEC. 20 TWP. 27

RGE. 28

ELEV. 91

D.F. 91

G.L. 91

DATE 1/21/77

LOCATION BAKERSFIELD

DEPTH DRILLER 1130

RECORDED BY PERRY

DEPTH LOGGER 1125

WITNESSED BY MR. MONDARY

LOG DEPTHS CORRECTED TO K.R.

**MECHANICAL DATA**

**CASING RECORD**

**PERFORATION RECORD**

SIZE	WEIGHT	FROM	TO	PERFORATION
7 1/8	23#	SURF.	1130	920 - 1130

**TUBING RECORD**

**MISCELLANEOUS**

SIZE	WEIGHT	FROM	TO
		NONE	

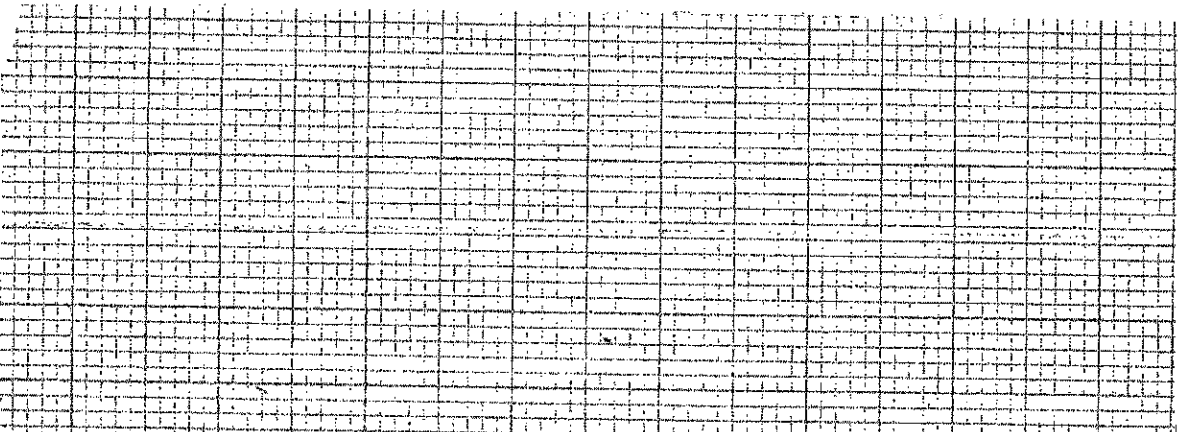
**PRODUCTION DATA**

**INJECTION DATA**

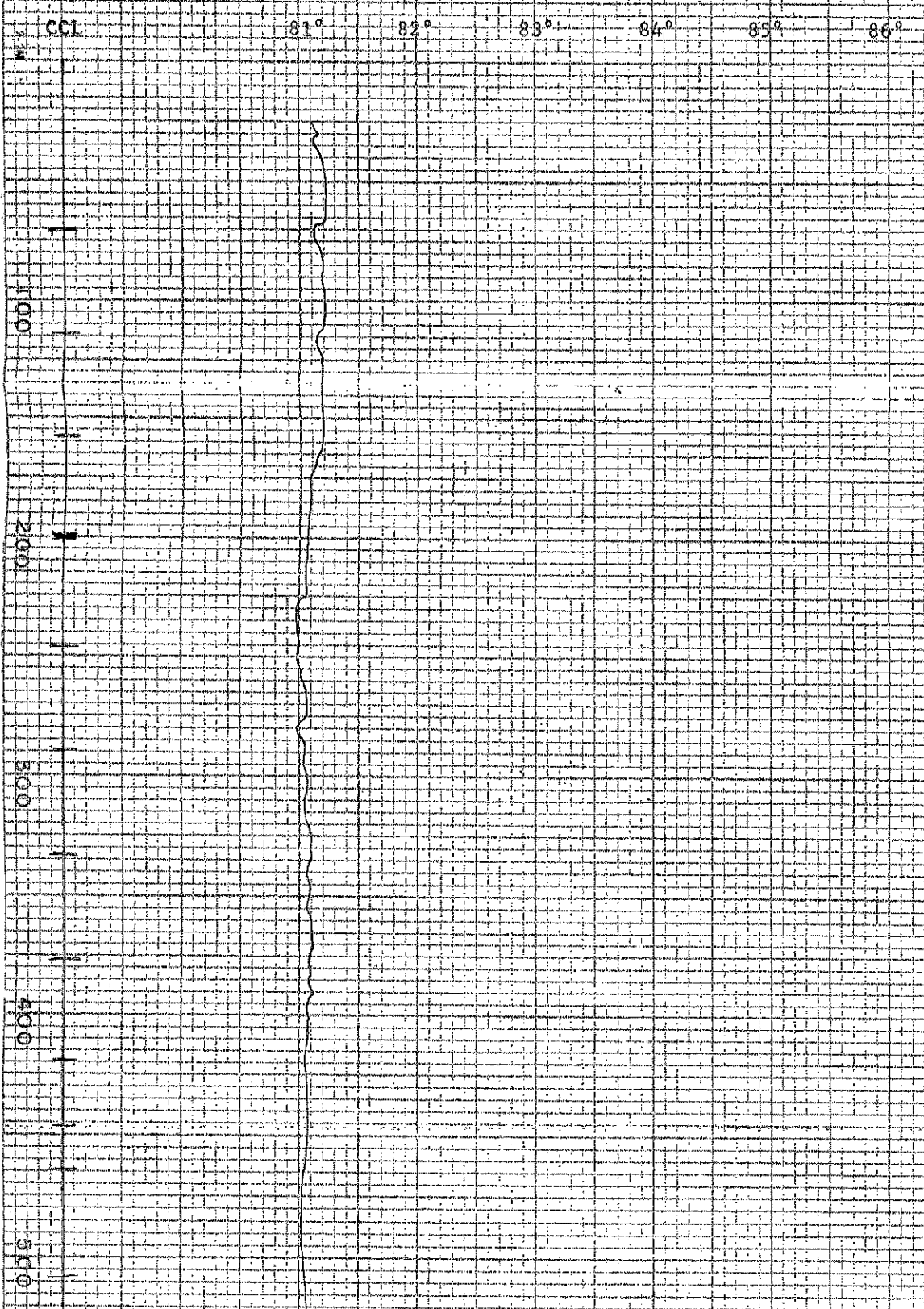
FLUID LEVEL	INJECTION RATE	5.83 B/D
OIL	TUBING PRESSURE	
WATER	CASING PRESSURE	5 psi
GAS		

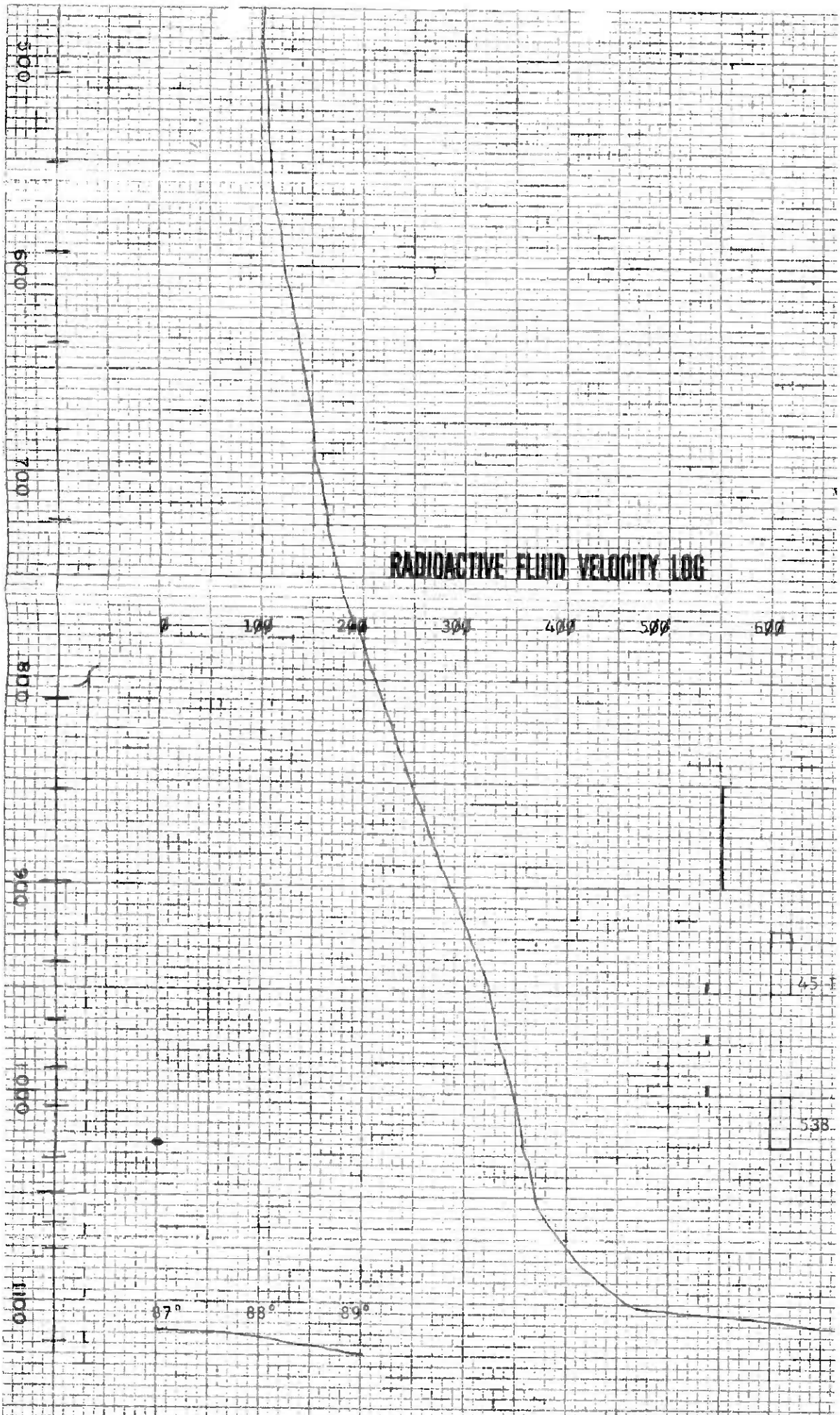
REMARKS:

- 1) the injection is into the folling zones: 1000-1025 @ 5.38 B/D  
920-950 @ .45 B/D
- 2) R/A-tracer log at 900 shows no apparent migration
- 3) stop cheks @ 900' & 50' shows tasing to be ok



# TEMPERATURE LOG





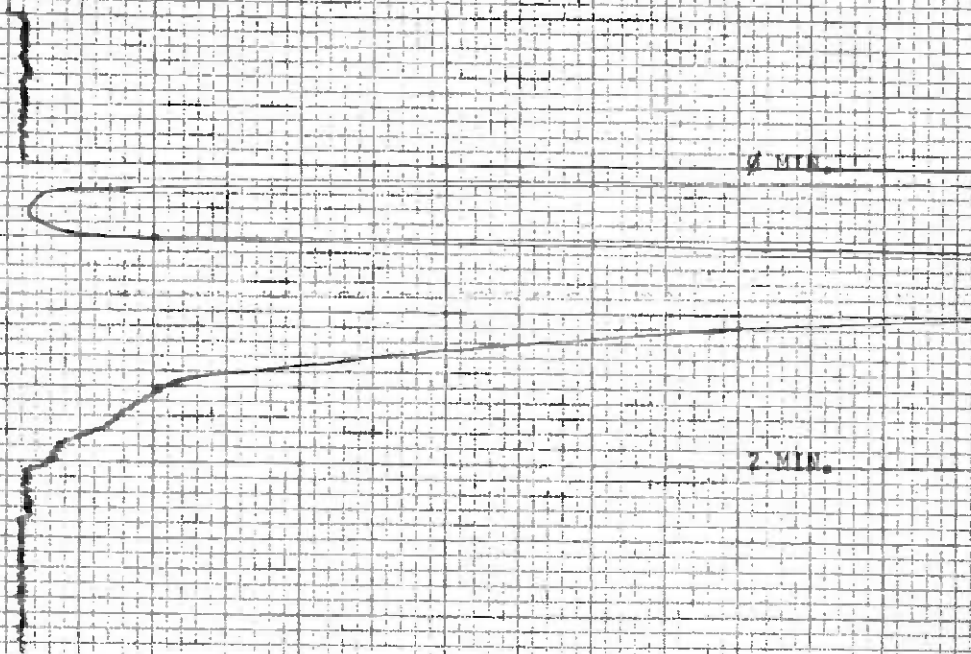


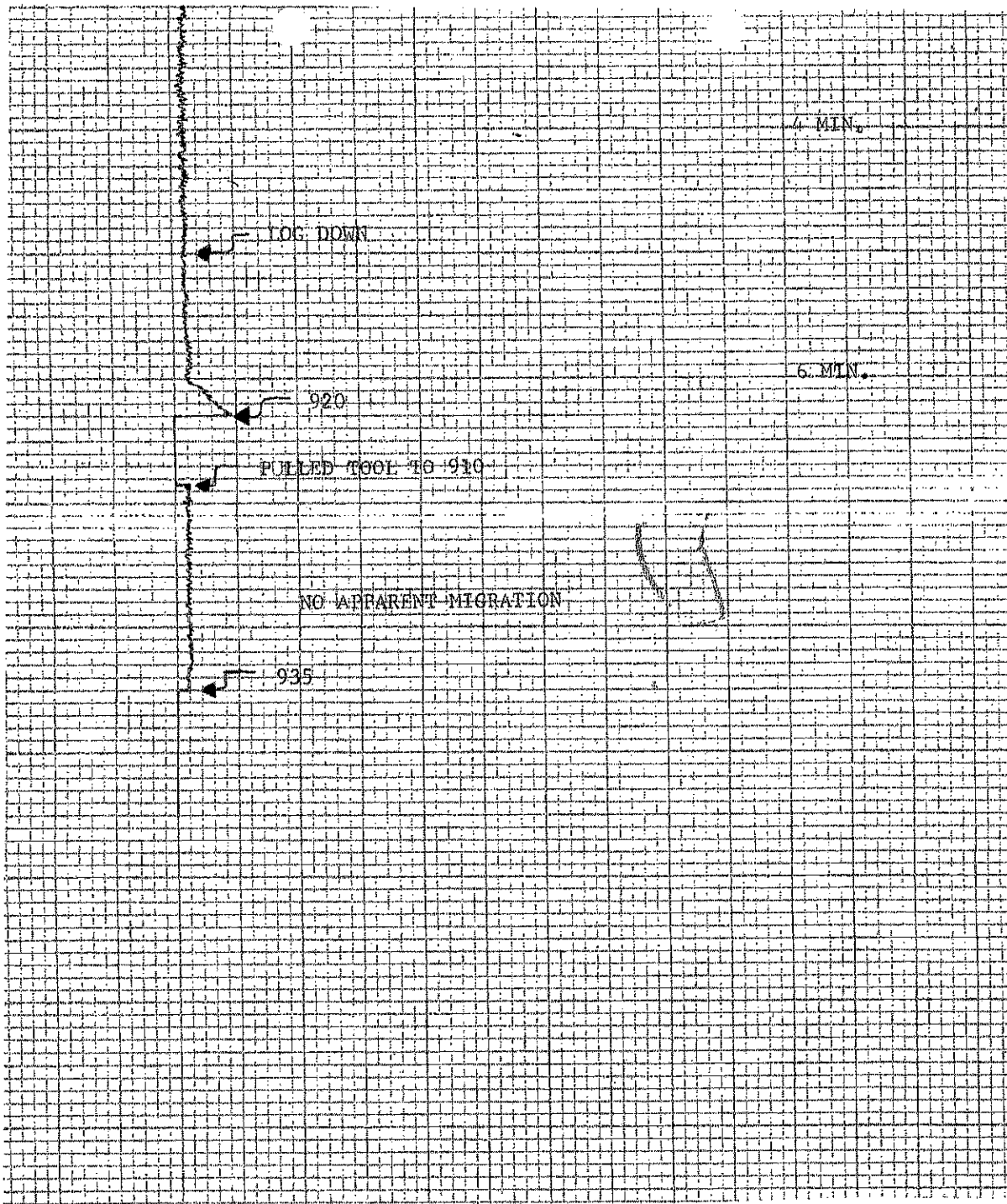
**RADIOACTIVE TRACER LOG**

@900

sens. 100/100

5sec R/A slug







# INJECTION PROFILE

PRODUCTION DATA, INC.

FILE NO.

COMPANY THOMAS OIL COMPANY

WELL EINE 20-3

FIELD WEST BORO

COUNTY GREEN

STATE CALIFORNIA

LOCATION:

SEC 20 TWP 27S RGE 28E

Other Services

Permanent Datum  
Log Measured from: K.B. 8 Ft. Above Permanent Datum of

Drilling Measured from:

Elevations:  
KB  
OF  
GL

Date 9 - 13 - 77

Run No. ONE

CASING & TURNING RECORD

Type Log INJECTION PROFILE

Depth-Offset 1113'

Size 7" Weight 23 From 0 To 1150'

Bottom Logged Interval 1110'

Top Logged Interval 350'

Water

Fluid Level 480'

Mass. Res. Temp. 50

Temp. Fall to 2.7/8" @ 488'

Recorded by TOWNSELL

Witnessed by Mr. Gordon Street

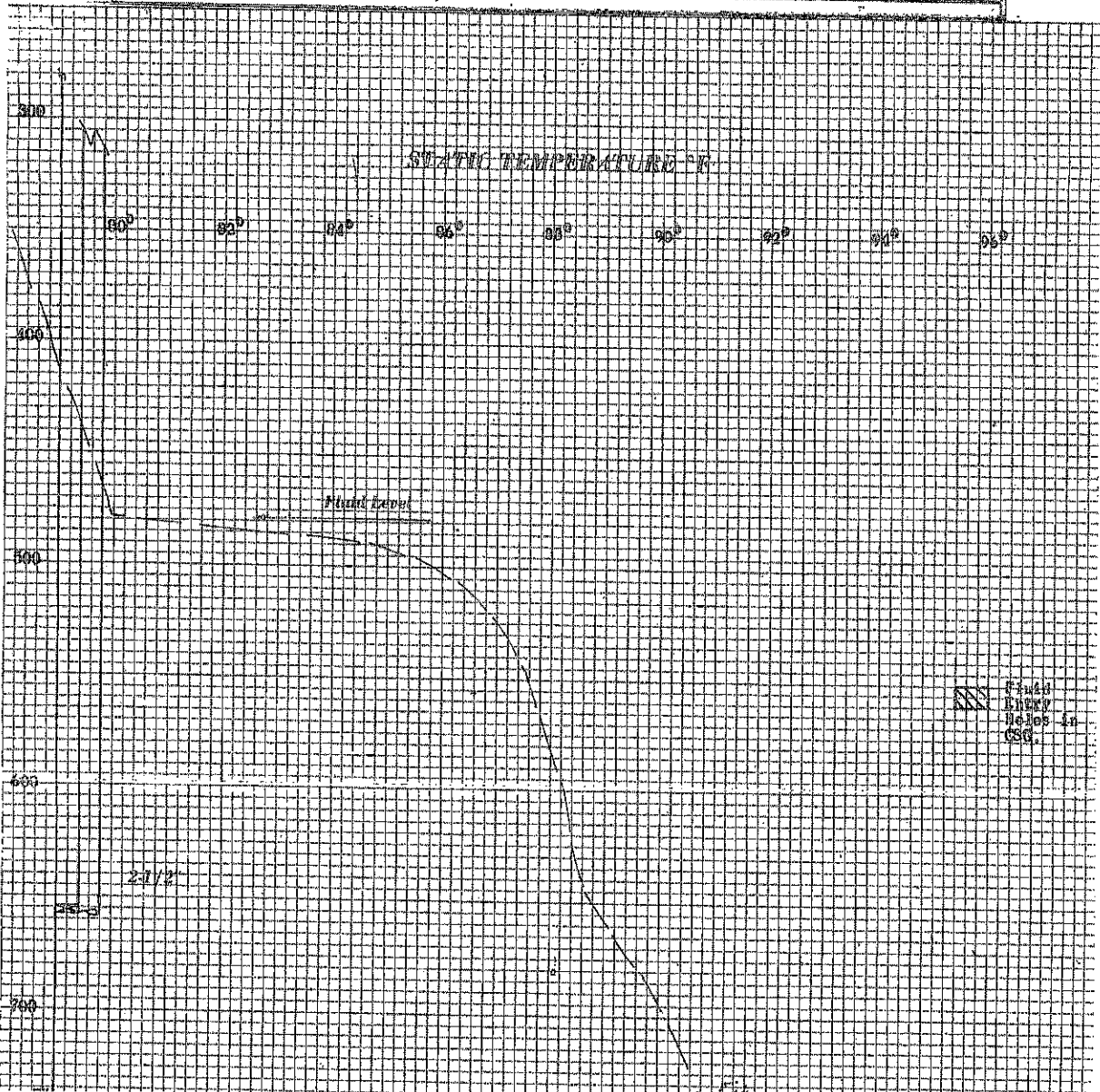
Perforations: 920' - 1130'

### TEST DATA

### EQUIPMENT

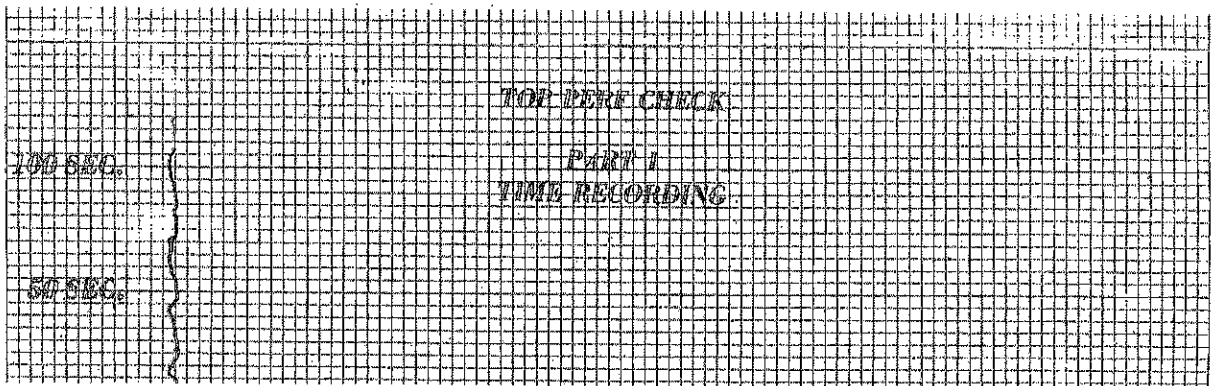
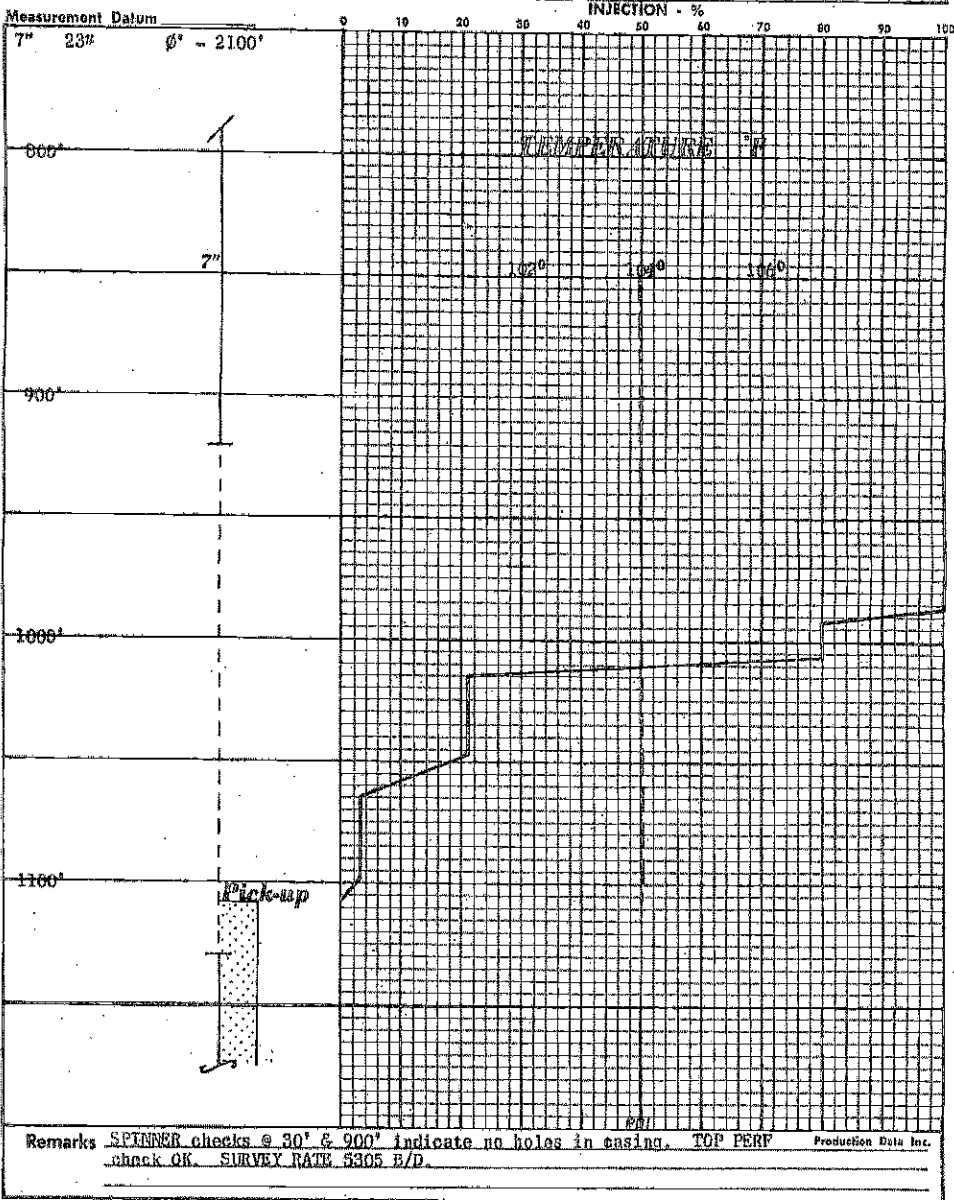
Run No.	ONE	Unit No.	3
Well Status	INJECTIVE	Tool No.	1
Production Oil B/D		Tool Size	1.31/8"
Water B/D			
Gas MCF/D			
Injection Rate B/D	6500 B/D		
Tubing Pressure	1600 PSI		
Casing Pressure			
Recommended Rate/Pressure Survey	6550 B/D		

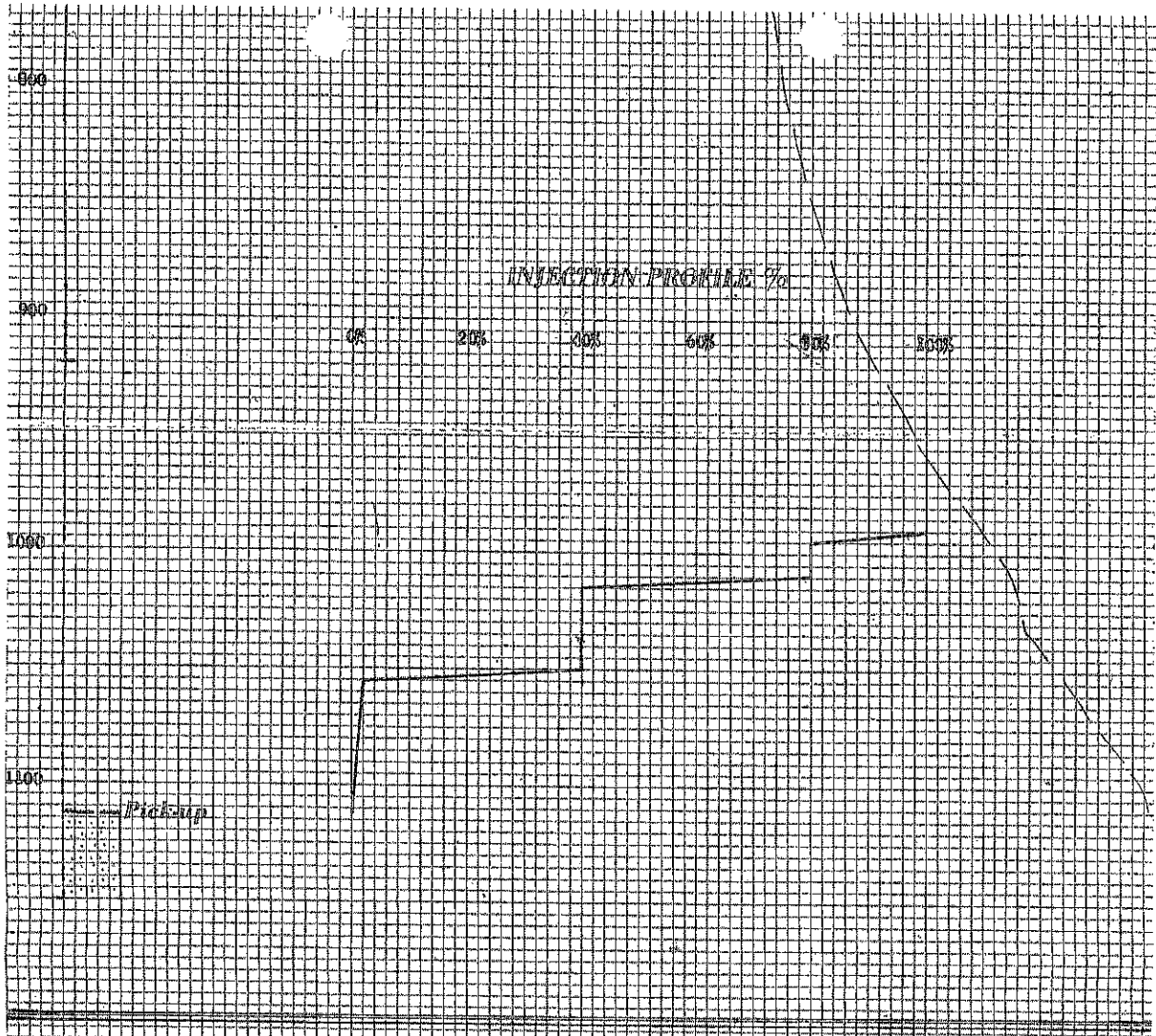
FOLD HERE



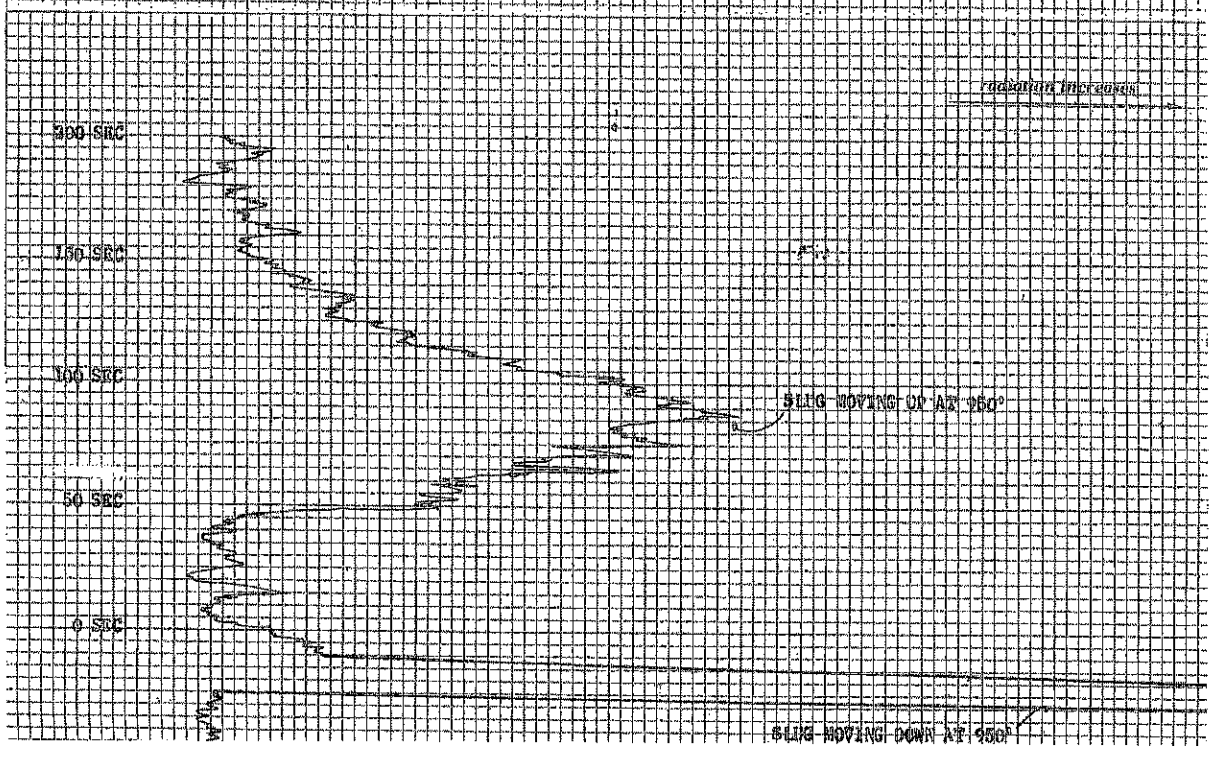
Company THOMAS OIL COMPANY Field MOUNT POSO Well No. RING 20 #3  
**SURVEY DATA** **INJECTED FLUID-B/D**

RUN NO.	ONE									SAND					
Type Survey	A-S-T														
Date	9-2-80														
Inj. Rate															
Inj. Press.	38 psig														
Pickup	1108'														
Yield	000'														
Plat/Top Perf. Chk.	OK														
Service Co.	PDI														



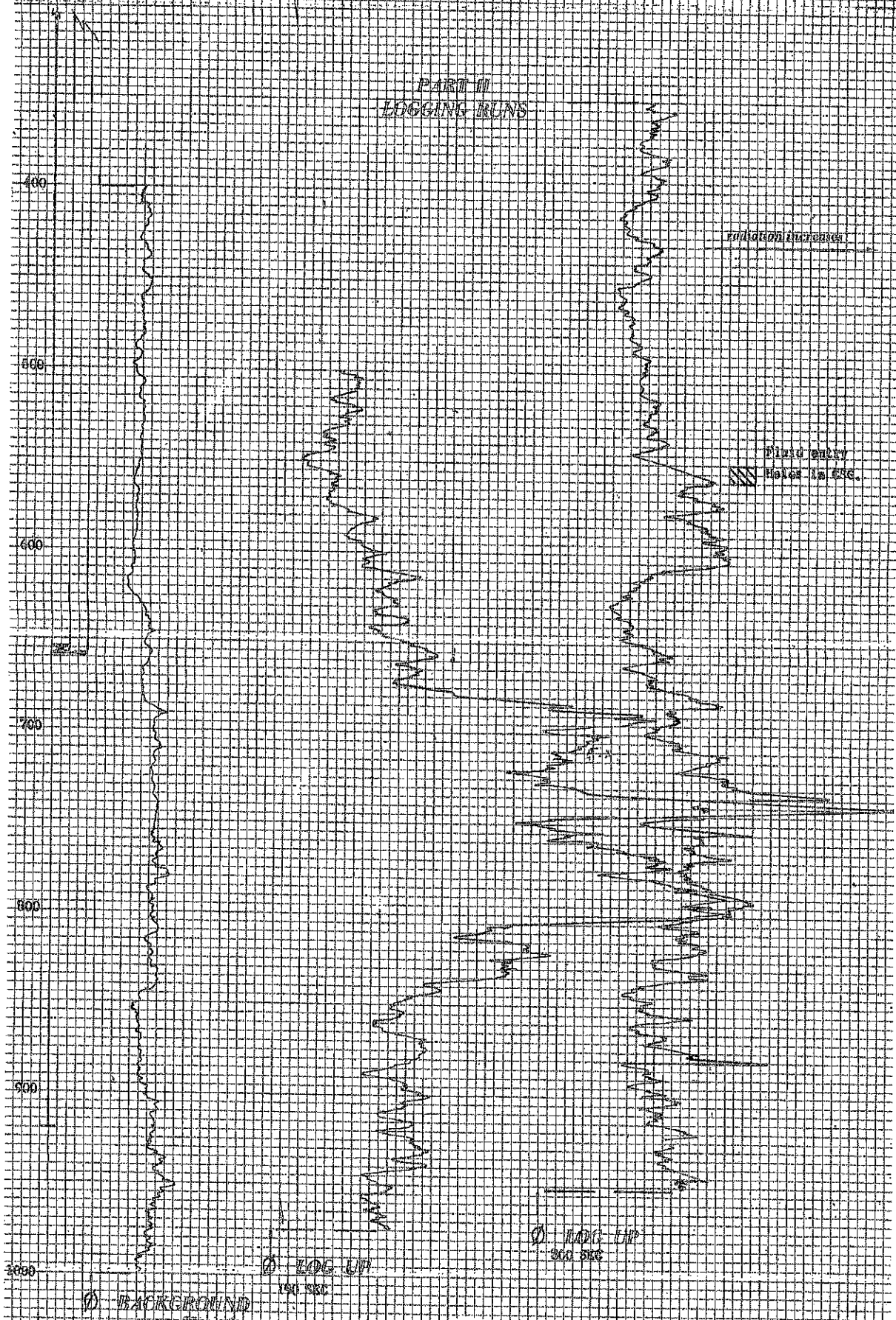


PART II  
TIME RECORDING



Inject 1 second running time of G/R tracer in TUG. Open 1/4 inch  
 down to 250'. Waited. Saw peak G/R tool in 30 seconds and then moved up past the  
 G/R tool again in 110 seconds. After waiting 200 seconds, we started logging time.

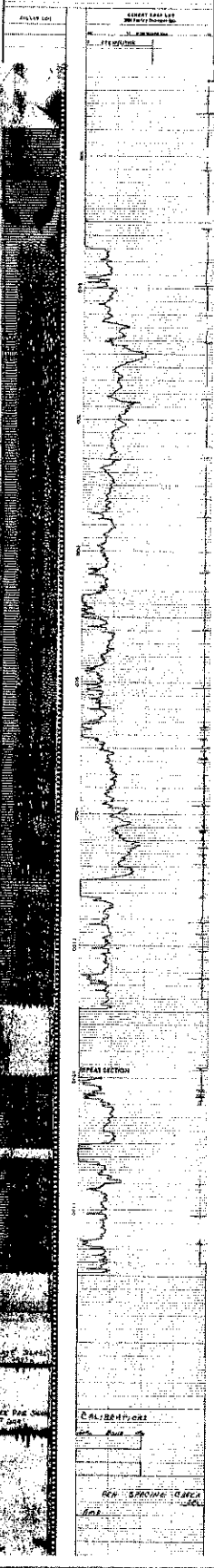
PART III  
 LOGGING RUNS



Found fluid moving up and entering at 540' to 550'

DATE	TIME	WIND	SEA	TEMP	HUMID	WAVE	SWELL	STATE	NO.
REMARKS									

WIND	SEA	TEMP	HUMID	WAVE	SWELL	STATE	NO.

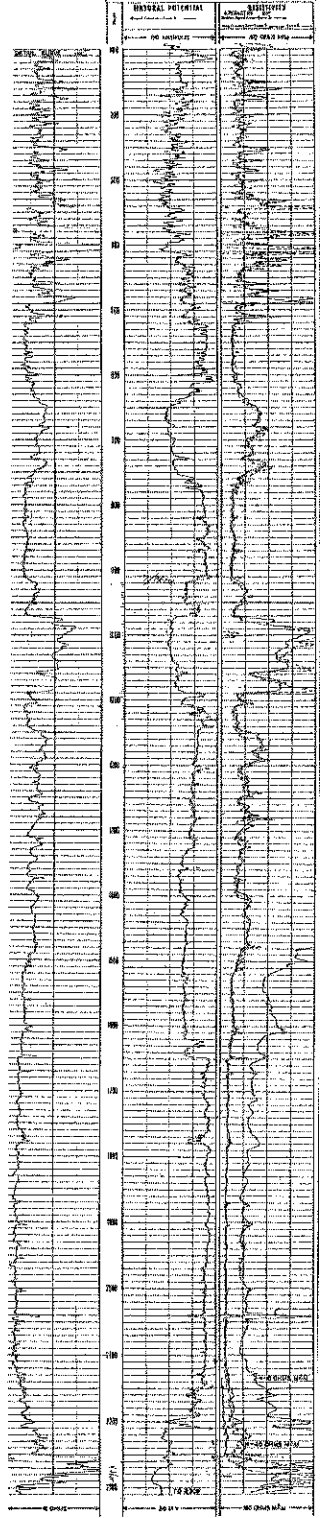


**LAN WELLS**

WELL NO. 100 80-3  
SECTION L. 23-2-2  
TOWNSHIP 23-2-2  
RANGE 80-3  
COUNTY CALHOUN

DESCRIPTION OF LOG

LOG NO.	100 80-3
DATE	1955
TIME	10:00 AM
DEPTH	1000
TEMPERATURE	100
RESISTIVITY	100
GRAB SAMPLES	100
LOGGING COMPANY	LAN WELLS





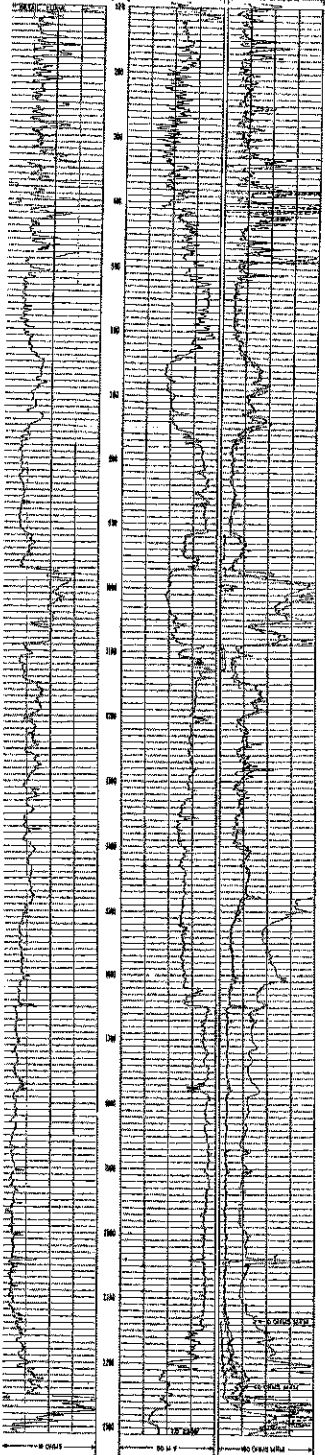
MACKAYSON OIL CO.  
APPROVED-1925-CORRECTIONS-  
"Reg 20" 3  
Sec. 20, T. 27B., N. 28B.

LS

RECORDED AND INDEXED  
FEB 21 1926  
CALIFORNIA

DATE	1/21
TIME	
WELL NO.	
SECTION	
TOWNSHIP	
RANGE	
COUNTY	
STATE	CALIFORNIA

LOG OF WELL	
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