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N/R

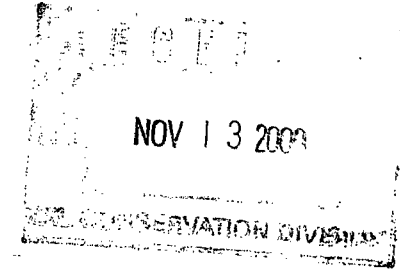
148

# Shahara Oil, LLC

207 W. McKay • Carlsbad, NM 88220 • 505-885-5433 • Fax 505-885-4989

November 9, 2000

Mr. Mark Ashley  
Oil Conservation Division  
2040 South Pacheco  
Santa Fe, NM 87505



Re: Order No's R-2749-A  
Shahara Premier Sand Unit EOR Project  
Step Rate Tests  
Eddy County, New Mexico

Dear Mr. Ashley,

Shahara Oil, LLC, operator for AROC (Texas) Inc. has initiated injection into eight wells (three old injectors and five new injectors) in the south area of the referenced project. Step rate tests have been conducted on three wells in this area (please see the attached map). Following are the results and our request as to which additional wells each result be applied.

| Well Name<br>and Number          | API Number   | Footage Location (unit)   | Section | Step Rate<br>Test Result *** | Request Maximum<br>Surface Pressure |
|----------------------------------|--------------|---------------------------|---------|------------------------------|-------------------------------------|
| Grayburg Jackson PSU ME No. 1    | 30-015-04377 | 990' FSL & 1650' FEL (O)  | 28      | 1525                         | 1475 (1375)                         |
| Grayburg Jackson PSU MB No. 1    | 30-015-04359 | 990' FSL & 330' FEL (M)   | 27      |                              | 1475                                |
| Grayburg Jackson PSU BB No. 1 *  | 30-015-04443 | 330' FNL & 990' FEL (A)   | 33      |                              | 1475                                |
| Grayburg Jackson PSU FG No. 1    | 30-015-04445 | 330' FNL & 330' FWL (D)   | 34      |                              | 1475                                |
| Grayburg Jackson PSU FG No. 2    | 30-015-04446 | 332' FNL & 1666' FWL (C)  | 34      | 1425                         | (1375)                              |
| Grayburg Jackson PSU MB No. 3    | 30-015-04358 | 990' FSL & 1650' FWL (N)  | 27      |                              | 1375                                |
| Grayburg Jackson PSU AD No. 8    | 30-015-10611 | 330' FNL & 2140' FWL (B)  | 34      |                              | 1375                                |
| Grayburg Jackson PSU MB No. 5    | 30-015-04433 | 978' FSL & 2323' FEL (D)  | 27      | 1325                         | (1275)                              |
| Grayburg Jackson PSU AD No. 9    | 30-015-10612 | 330' FNL & 640' FEL (A)   | 34      |                              | 1275                                |
| Grayburg Jackson PSU MB No. 6 ** | 30-015-04363 | 1650' FSL & 1650' FEL (J) | 27      |                              | 1275                                |

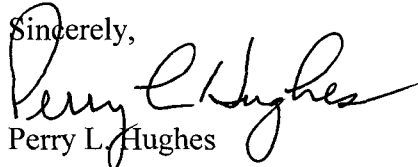
\* To be converted to an injector at a later date - presently producing.

\*\* Not considered in Order R-2749-A to be an injector. However, has been converted to injection and remains shut-in pending administrative order. C-108 has been submitted.

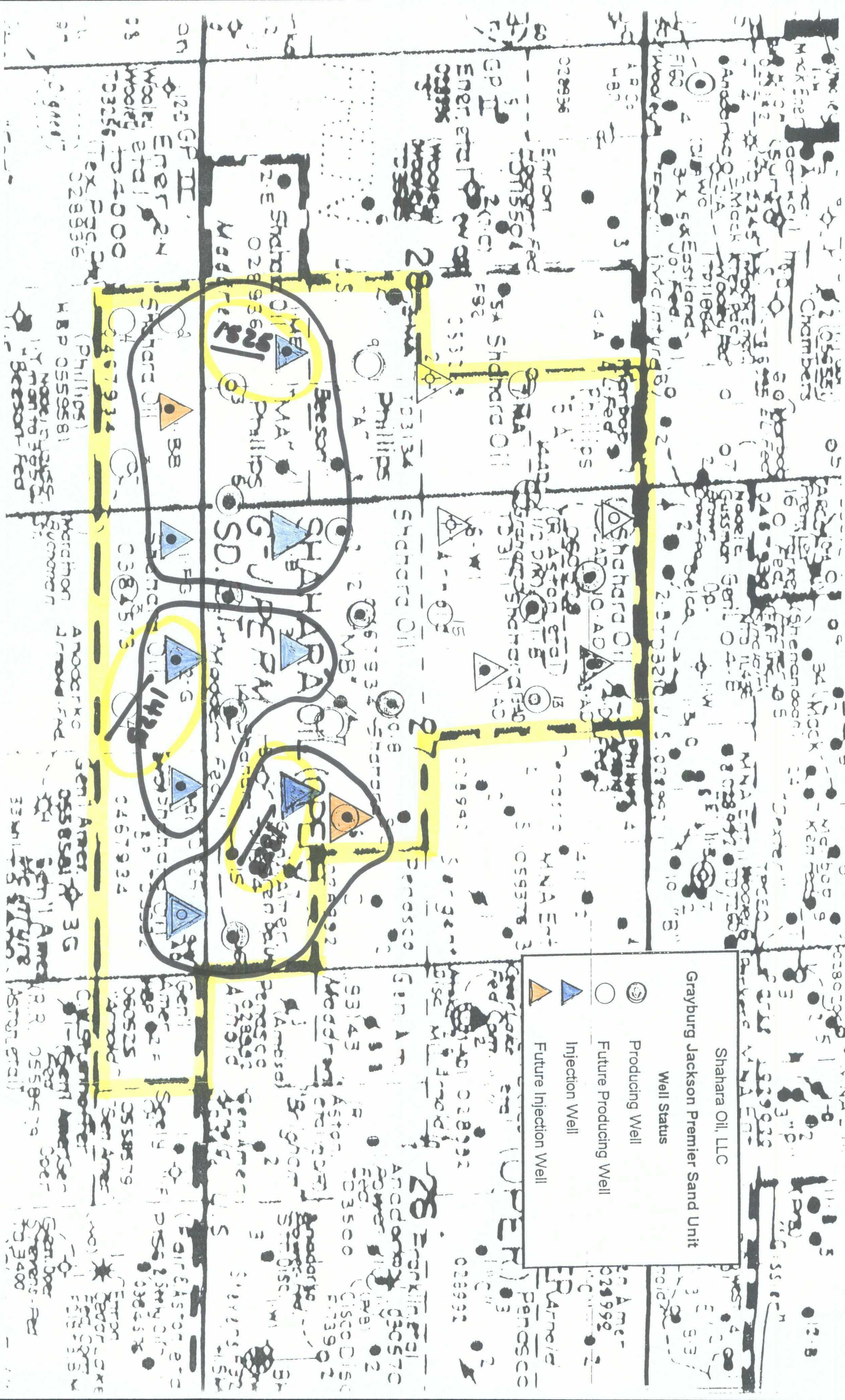
\*\*\* See attached Holmes Wireline results.

Your earliest consideration of this request is greatly appreciated.

Sincerely,

  
Perry L. Hughes

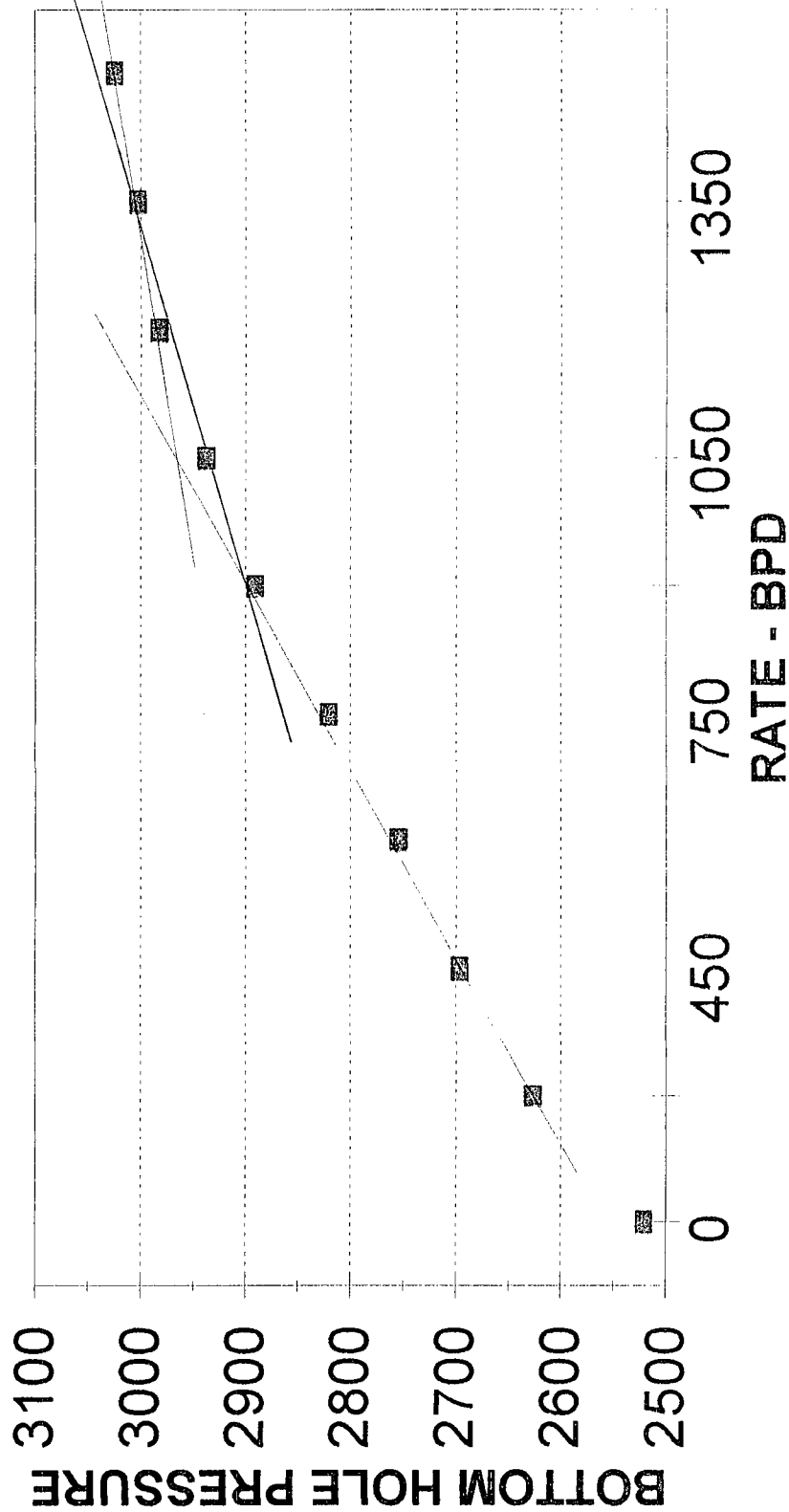
Attachments





# AROC (TEXAS) INC.

Grbrg Jackson "PSU" ME #1 11-03-00







PRODUCTION LOGGING

# ACCU-LOG STEP RATE

Company AROC (TEXAS) INC.

Well GRAYBURG JACKSON "WFU" FG#2

Field GRAYBURG JACKSON -7R-QN-GB-SA

County EDDY State N.M.

Location 332' FNL & 1666' FWL

Block UNIT C Section 34, T-17S-R30E

File No.

B0011549.DB

Elevations:

K.B. N/A  
D.F. N/A  
G.L. N/A

Perm. Date G L Elev. N/A L.M.F. 11' AGL

|                        |                |  |  |  |  |
|------------------------|----------------|--|--|--|--|
| Rate                   | 11-6-00        |  |  |  |  |
| Run Number             | ONE            |  |  |  |  |
| Type Log               | PRESS-TEMP     |  |  |  |  |
| Depth - (Driller)      | N/A            |  |  |  |  |
| Depth - (Logger)       | 3150'          |  |  |  |  |
| Bottom Logged Interval | 3150           |  |  |  |  |
| Top Logged Interval    | ---            |  |  |  |  |
| Type Hole Fluid        | WATER          |  |  |  |  |
| Fluid Level            | FULL @ 950 PSI |  |  |  |  |
| Max. Recorded Temp.    | ---            |  |  |  |  |
| Recorded By            | M. GARRETT     |  |  |  |  |
| Witnessed By           | MR. W. WHITE   |  |  |  |  |

## EQUIPMENT AND TEST DATA

| Casing & Tubing Record  |     |           |        |        |             |
|-------------------------|-----|-----------|--------|--------|-------------|
| Run No.                 | ONE | INJECTION | Size   | Weight | From To     |
| Well Status             | --- | ---       | 4 1/2" | N/A    | SURF. 3281' |
| Production -- Oil, b/d  | --- | ---       | 2 3/8" | TBG    | SURF. N/A   |
| Water, b/d              | --- | ---       | ---    | ---    | ---         |
| Gas, mcf                | --- | ---       | ---    | ---    | ---         |
| Injection Rate          | N/A | ---       | ---    | ---    | ---         |
| Pressure -- Tubing, psi | --- | ---       | ---    | ---    | ---         |
| Casing, psi             | --- | ---       | ---    | ---    | ---         |
| Log Speed, fpm          | --- | ---       | ---    | ---    | ---         |
| Temp Sens, degf/in      | --- | ---       | ---    | ---    | ---         |
| R Sens                  | --- | ---       | ---    | ---    | ---         |

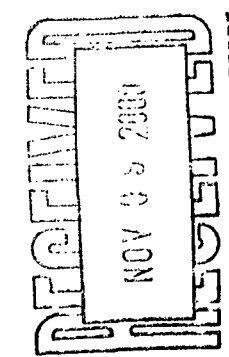
Perforations: 3160-3268 ( 12 HOLES )

Remarks: INFORMATION RECEIVED FROM COMPANY REPRESENTATIVE

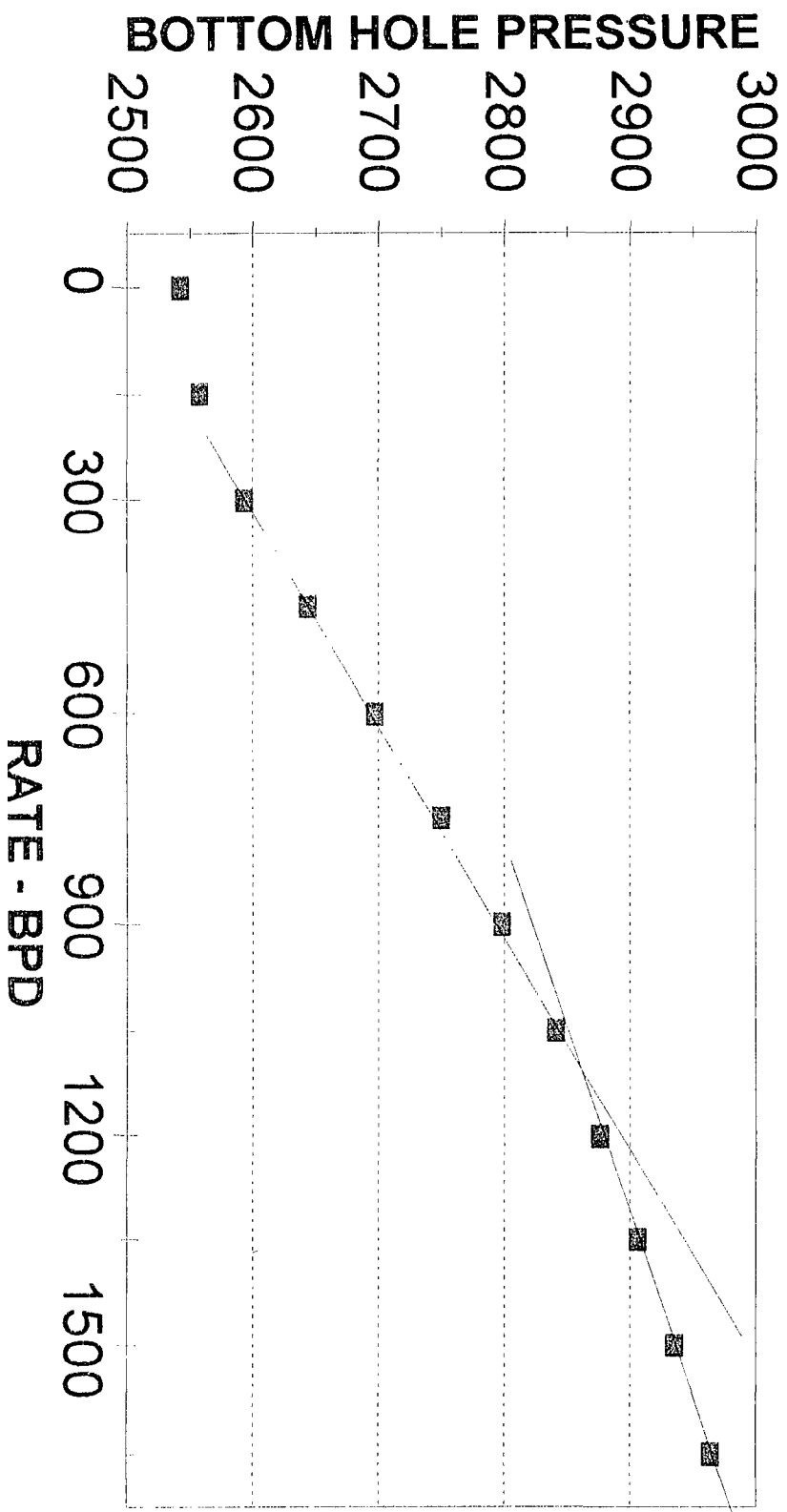
Channeling: N/A

Survey Data: FRACTURE AT 2863 BH PSI

| TIME        | RATE | BH PSI | SF PSI |
|-------------|------|--------|--------|
| 8:45-9:15   | 0    | 2542   | 950    |
| 9:15-9:45   | 150  | 2557   | 1000   |
| 9:45-10:15  | 300  | 2593   | 1075   |
| 10:15-10:45 | 450  | 2643   | 1150   |
| 10:45-11:15 | 600  | 2697   | 1225   |
| 11:15-11:45 | 750  | 2750   | 1300   |
| 11:45-12:15 | 900  | 2798   | 1375   |
| 12:15-12:45 | 1050 | 2841   | 1400   |
| 12:45-1:15  | 1200 | 2876   | 1450   |
| 1:15-1:45   | 1350 | 2906   | 1500   |
| 1:45-2:15   | 1500 | 2935   | 1550   |
| 2:15        | 1650 | 2963   | 1550   |



**AROC (TEXAS) INC.**  
Grbg Jackson "WFU" FG #2





PRODUCTION LOGGING

# ACCU-LOG STEP RATE

|            |                                 |         |               |             |             |
|------------|---------------------------------|---------|---------------|-------------|-------------|
| Company    | AROC ( TEXAS ) INC.             |         |               | File No.    | B0010545.DB |
| Well       | GRAYBURG JACKSON " WFU " MB # 5 |         |               |             |             |
| Field      | GRAYBURG JACKSON -7R-QN-GB-SA   |         |               |             |             |
| County     | EDDY                            | State   | N.M.          | Elevations: |             |
|            |                                 |         |               | K.B.        | N/A         |
|            |                                 |         |               | D.F.        | N/A         |
|            |                                 |         |               | G.L.        | N/A         |
| Location   | 978' FSL & 2323' FEL, UNIT O    |         |               |             |             |
| Block      |                                 | Section | 27,T-17S-R30E |             |             |
| Perm. Dat. | GL                              | Elev.   | N/A           | L.M.F.      | 11' AGL     |

| EQUIPMENT AND TEST DATA |            |                        |        |             |        |
|-------------------------|------------|------------------------|--------|-------------|--------|
| Run No.                 | ONE        | Casing & Tubing Record |        |             |        |
| Well Status             | INJECTION  | Size                   | Weight | From        | To     |
| Production - Oil b/d    | ---        | 4 1/2"                 | N/A    | SURF.       | 3251'  |
| Water b/d               | ---        | 2 3/8"                 | TBG    | SURF.       | N/A    |
| Gas mcf                 | ---        |                        |        |             |        |
| Injection Rate          | N/A        |                        |        |             |        |
| Pressure - Tubing, psi  | 1000 PSI   |                        |        |             |        |
| Casing, psi             | 0 PSI      |                        |        | Packer @    | 3075'  |
| Log Speed, fpm          | TIME DRIVE |                        |        | Tbg Tail to | N/A    |
| Temp Sens, degF/in      | ---        |                        |        | Truck No.   | 105    |
| S. R. Sens              | ---        |                        |        | Tool No.    | 1 1/2" |

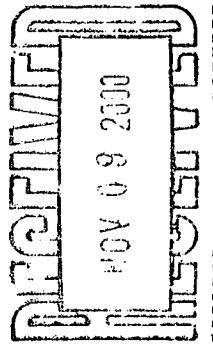
Perforations: 3142-3250'

Remarks: INFORMATION RECEIVED FROM COMPANY REPRESENTATIVE

Channeling: N/A

Survey Data: COMPANY REPRESENTATIVE  
DISCONTINUED TEST AT 1350  
BPD DUE TO FRACTURE AT  
2710 BH PSI

| TIME      | RATE | BH PSI | SF PSI |
|-----------|------|--------|--------|
| 3:30-4:00 | 0    | 2660   | 1000   |
| 4:00-4:30 | 300  | 2678   | 1200   |
| 4:30-5:00 | 450  | 2706   | 1300   |
| 5:00-5:30 | 600  | 2708   | 1325   |
| 5:30-6:00 | 750  | 2718   | 1325   |
| 6:00-6:30 | 900  | 2735   | 1350   |
| 6:30-7:00 | 1050 | 2777   | 1350   |
| 7:00-7:30 | 1200 | 2817   | 1375   |
| 7:30-8:00 | 1350 | 2857   | 1375   |



# AROC (TEXAS) INC.

Grbrg Jackson "WFU" MB #5 11-01-00

