

1/21/83

Page No.

Project Number

[illegible]

Field MCM

Range 32-E Block

## Survey

KB 292

DE

GL 4283

|           |      |
|-----------|------|
| Formation | Tops |
|-----------|------|

8 5/8" Csg. @ 3 3/4'   
Cmtd. w/ 22 1/2" sk

[illegible]

|             |  |
|-------------|--|
| Csg. Detail |  |
|-------------|--|

5 1/2" 1A\* J-SS CSG LDD

4290'

## Perforations

4057-61 2 CWP

4092-4102 A

4112-16 4

4122-28 4

|        |    |   |
|--------|----|---|
| 412.86 | 42 | 2 |
|--------|----|---|

4185-89 2

4203-07 4

4210-2014

4341-45 4

1218-56 4

|              |  |
|--------------|--|
| Tb.g. Detail |  |
|--------------|--|

KE - TH

6.50

13A-JTS 27/8, 6.5, 1-55 4210.73

2 1/4" PSN

1.10

278" MA

14.75

LDD @ 4237.08

|        |                 |
|--------|-----------------|
| 5 1/2" | Csg. @ 4290'    |
|        | Contd. w/350'-X |

DATE 4382

TD 4390

| Pertinent Data                                |
|-----------------------------------------------|
| 1. Name of the person: [REDACTED]             |
| 2. Date of birth: [REDACTED]                  |
| 3. Place of birth: [REDACTED]                 |
| 4. Current address: [REDACTED]                |
| 5. Social Security Number: [REDACTED]         |
| 6. Date of entry into the country: [REDACTED] |
| 7. Reason for entry: [REDACTED]               |
| 8. Current status: [REDACTED]                 |
| 9. Date of last contact: [REDACTED]           |
| 10. Date of report: [REDACTED]                |

60-3/4" RODS

 $-\frac{1}{2} - \frac{1}{4}$ 

5-1

2 1/2" x 1 1/4" x 12' AXELSON PUMP

WELL HEAD LARVA TYPE X

5-AL5 GYPSOL & HLX-53 TRTMT. INC. OIL TO 148 BOPD & 74 BWPD  
CHRONOLOGICAL HISTORY

Gypsol and HLX-53 treatment. Cost - \$1708.11.

12-7-65 Dumped 750 gals Kerosene with 4 gals Hyflo in well and circulated 14 hours with well pump.  
12-8-65 Turned well to battery for 27 hours.  
12-9-65 Dumped 500 gallons FE acid and circulated for 6 hours with well pump. Turned to battery for 20 hours.  
12-10-65 Dumped 1500 gallons gypsol converter solution and circulated for 48 hours.  
12-12-65 Turned well to battery for 22 hours.  
12-13-65 Dumped 1000 gallons 15% NE HCL and circulated for 6 hours and turned to battery.  
12-14-65 Mixed 50 gallons HLX-53 with 72 BW and pumped in well. Flushed with 105 BW. Pressure built to 200 psi at end of job.

PRIOR PRODUCTION

November 1965: 76 BOPD and 100 BWPD for 30 days. AFTER 100 BO, 160 BWPD IN

9-1965 GYPSOL & HLX-53 TRTMT. OIL DEC FROM 42-36 BOPD 28 DAYS  
FWTR INC FROM 65-100 BWPD

10-29-66 MI and RU workover rig. Pulled rods, pump and tubing. NU BOPE. Perforated at 4057'-4061', 4138-4142', and 4185-4189' with 2 CJPF. Tagged PBTD at 4349'. Started in hole with ret. pkr.

10-30-66 Set packer at 4270'. Pumped into Lovington perforations 4340-4356' at stabilized rate of 1 BPM and 2000 psi. ISITP - 1800 psi. 12 min SITP - 0 psi (vac). Reset packer at 4030'. Pumped into all perforations 4092-4356' at stabilized rate of 4 BPM and 800 psi. Pulled packer. Ran ret. pkr and bridge plug. Set BP at 4270'. Set packer at 4160'. Treated Premier perforations 4185-4220' with 40 bbls and 2% hydroxyacetic acid heated to 195° F at the surface, at average rate of 3 - 3.5 BPM and 1200 psi.

Detail:

Pumped 16 BA in formation at 0 psi and 2.5 BPM.  
Pumped 24 BA in formation at 600-1200 psi and 3 - 3.5 BPM.  
ISITP - 700 psi 2 min. SITP - 0 psi (vac). Flushed acid with 1% KCL water.  
Rel packer and ret. BP. Set BP at 4160'. Set packer at 4030'.  
Treated perforated interval 4057-4142' with 120 bbls of 2% hydroxyacetic acid heated to 195° F, at average rate of 0.9 BPM and 2000 psi.

Detail:

Pumped 12 BA in formation at 2000 psi and 1 BPM.  
Pumped 21 BA in formation at 2200 psi and 3/4 BPM.  
Pumped 83 BA in formation at 2200-2300 psi and 1/2 BPM.  
ISITP 0 2200 psi 15 min. SITP - 1900 psi. Flushed acid with 1% KCL water - pumped 3/4 tubing capacity.

10-31-66 After 12-1/2 hours SI, TP - 0 psi (slight vac). Tested 5-1/2" casing to 1000 psi (4030' to surface), with 0 psi loss in 20 mins. Rel pkr at 4030', ret. BP, and pulled same. Removed BOPE. Ran and landed 2-3/8" tubing at 4325'. Ran pump and rods. Released rig.

11-1-66 P 61 BO 163 BW 24 hours.  
11-3-66 P 44 BO 144 BW 24 hours.  
11-4-66 P 47 BO 134 BW 24 hours.  
11-9-66 P 54 BO 135 BW 24 hours.  
11-10-66 P 52 BO 132 BW 24 hours.  
11-11-66 P 50 BO 130 BW 24 hours.

3-68 REPLACED 2 7/8" TRG STRING

9-21-77 POOH W/ TRG. TESTED FOR LEAK. LDD TRG 1 JT HIGHER.

9-6-79 CHINE PUMP



# CALCULATION SHEET

Chevron U.S.A. Inc.

Date 6/18/64

Prepared by SCH Page No. of

|       |          |            |                |
|-------|----------|------------|----------------|
| Title | Location | Department | Project Number |
|-------|----------|------------|----------------|

Lease MALJAMAR GRAYBURG UNIT Well # 9 Field MGL

|                              |                            |                      |            |            |
|------------------------------|----------------------------|----------------------|------------|------------|
| Location 460' FWL, 1980' RWL | Section 3                  | Township 17-S        | Range 31-E | Block      |
| Type of Comp. SELECT. PERF   | Current Status P&A WTR INJ | Survey               |            |            |
| County LEA                   | State NM                   | Date Completed 10-63 | KB 4201    | DF GL 4-90 |

CUT OFF CSG BELOW GROUND LEVEL, WELDED STEEL PLATE Formation Tops

SET 4' MARKER

SPOTTED 10 SX CMT @ SURFACE

SHOT 5 1/2" CSG @ 489' Oil/Water Contact  
Csg. Detail

8 3/4" Csg. @ 373'  
Cmt. w/250 SX

SPOTTED 90 SX CMT @ 489'

CIRC TO SURFACE

11" HOLE

Perforations

3950-54

3956-96

4013-22

4042-48

4082-90

4104-16

Tbg. Detail

25 SX CMT  
SPOTTED @ 1204

CIRCULATED  
HOLE WITH  
MUD  
LADEN  
FLUID

25 SX CMT SPOTTED @ 2604

CIRP @ 3900 W/25 SX CMT  
ON TOP

Pertinent Data

5 1/2" Csg. @ 4149'  
Cmt. w/350 SX

PBTD 4117  
TD 4149

7 7/8" HOLE

P&A 3-21-75



Date  
6/18/85

Prepared by  
SCW

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|                |  |
|----------------|--|
| Project Number |  |
|----------------|--|

Title  
**Supplemental Well History**

|          |  |
|----------|--|
| Location |  |
|----------|--|

Department

Lease MALJAMAR GRAYBURG Unit Well # 9

Field MGU

~~Production~~

Date COMPLETION

Before

After

10-8-63

SPUNDED

10-16-63

PERF 3986-96 & 4104-16' SELECTIVELY

FRACED W/ 20000 GALS OIL & 40000<sup>##</sup> SAND

TEST

NEW

21 Bo

O B W

33° API

1 / 4 / 84

Page No.

Project Number

Field MALJAMAR

[illegible]

## Formation Tops

|                   |  |
|-------------------|--|
| Oil/Water Contact |  |
|-------------------|--|

|      |        |
|------|--------|
| Csg. | Detail |
|------|--------|

S1/2", 14" J-SS, KRD C-6  
LDD @ 42SS

## Perforations

|         |   |   |   |
|---------|---|---|---|
| 3920-24 | 2 | ✓ | ✓ |
| 3952-62 | 4 | " | " |
| 3972-90 | 4 | " | " |
| 4005-07 | 2 | " | " |
| 4011-15 | 2 | " | " |
| 4050-60 | 4 | " | " |
| 4074-88 | 4 | " | " |
| 4208-22 | 4 | " | " |

|             |  |
|-------------|--|
| Tbg. Detail |  |
|-------------|--|

|                                                   |         |
|---------------------------------------------------|---------|
| KB-T/TEG                                          | 7.00    |
| 1- 6" x 8" 2 <sup>3</sup> / <sub>8</sub> " SUB    | 14.00   |
| 142-JTS 2 <sup>3</sup> / <sub>8</sub> " 1-SS, YRD | 429.21  |
| 1- 2 <sup>3</sup> / <sub>8</sub> " SN             | 1.10    |
| 1- 2 <sup>3</sup> / <sub>8</sub> " MA (OE w/FLAP) | 14.15   |
| LDD (C)                                           | 4175.46 |

FILL TO 4193

SET DOWN SOLID @ 4214'  
WHILE CO. - METAL CUTS.

S 1/2 Csg. @ 42 SS  
Cmtd. w/ 160 SX

|      |      |
|------|------|
| PBTD | 4248 |
| TD   | 4255 |

### Pertinent Data

16' POLYSH ROD  
2' x 7/8" POLY ROD  
SI - 7/8" RODS  
114 - 3/4" "  
2" x 1 1/2" x 10' RUB-C PUMP W/  
6" STRAINER

TIRE HEAD - LARKIN TYPE "K"

NOTE - SLIP SEGMENTS IN BOWL ARE NOT FASTENED TOGETHER

**CALCULATION SHEET**  
Chevron U.S.A. Inc.

5/27/83  
Prepared by **ECH** Page 10 of 1

**Supplemental Well History**

Lease **MALJAMAR**

Well # **10**

Field **MGU**

| Date     |                                                                                                                                                          | Production |       |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|
|          |                                                                                                                                                          | Before     | After |
| 11-29-58 | <p>Ø 4255 PERF 3952-62, 3972-90, 4050-60, NEW F 95.0</p> <p>4074-88 &amp; 4206-22 w/4 ELPF</p> <p>FRACEL w/30,000 GALS LEE OIL w/2#</p> <p>SAND/GAL.</p> |            |       |
| 2-66     | <p>PERF 3920-24, 4005-07, &amp; 4011-15 w/2 ELPF</p> <p>ACID w/15,000 GALS MA.</p> <p><u>SEE ATTACHED.</u></p>                                           |            |       |
| 10-2-77  | REQUESTED 1 YR TA                                                                                                                                        |            |       |
| 2-27-79  | BROUGHT RIGS FROM EACH CSG STRING                                                                                                                        |            |       |
|          | CSG. LEAK SURVEY                                                                                                                                         |            |       |
| 12-83    | CO TO 4214 - SET DOWN SOLID - GOT METAL CUTTINGS                                                                                                         |            |       |
|          | TEST TRG                                                                                                                                                 |            |       |
|          | 1) PMP 10 BFW                                                                                                                                            |            |       |
|          | " " DBS 15% NEEF HCL w/55 GALS ACIDIZING SOLUTION                                                                                                        |            |       |
|          | " 10 BFW                                                                                                                                                 |            |       |
|          | " 4 " w/4 DRUMS SCALE CONVERTER - NALCO CHEM.                                                                                                            |            |       |
|          | FLUSH 20 " SEEN FOR 6 DAYS (X-MAS & WEATHER)                                                                                                             |            |       |
|          | 2) PMP 2000 GALS 15% NEEF HCL                                                                                                                            |            |       |
|          | w/400# ZAF & 500# ZS IN 3 STAGES - SEE TOUR REPORTS                                                                                                      |            |       |
|          | 3) PMP 20 BFW w/1 DRUM INHIBITOR - NALCO CHEM                                                                                                            |            |       |
|          | FLUSH w/50 BFW - PUT ON PROD                                                                                                                             |            |       |
|          | WELL WAS TA'D PRIOR TO WORK - 10 YRS±                                                                                                                    |            |       |



CALCULATION SHEET  
Chevron U.S.A. Inc.

Date

Prepared by

Page No

of

Title

Location

Department

Project Number

Lease MALAMAR GRAYBURG UNIT Well # 11 Field MGV

|               |                     |                |               |                |                    |
|---------------|---------------------|----------------|---------------|----------------|--------------------|
| Location      | 660' ECL, 2090' FWL | Section 2      | Township 17-S | Range 37-E     | Block              |
| Type of Comp. | OPEN HOLE           | Current Status | P&A WTR INJ   | Survey         |                    |
| County        | LEA                 | State          | NM            | Date Completed | 1-48 KB DF 42-3 GL |

CUT OFF CSG BELOW GROUND LEVEL, WELDED STEEL  
PLATE SET 4' MARKER

PERF 8 5/8" @ 150, PMPD  
100 SX - CIRC TO SURFACE

SHOT 5 1/2" CSG @ 1270

Oil/Water Contact

Csg. Detail

8 5/8" CSG. @ 1245  
Cmtd. w/50 SX

SPOTTED 60 SX @ 1270

11" HOLE

MUD  
LADEN  
FLUID

Perforations

3963 - 4150'

OPEN HOLE

SPOTTED 25 SX CMT @  
2500'

Tbg. Detail

MUD  
LADEN  
FLUID

SPOTTED 25 SX CMT @  
3200'

MUD  
LADEN  
FLUID

CIRP @ 3900' w/25 SX  
CMT ON TOP

7 7/8" HOLE

5 1/2" CSG. @ 3960'  
Cmtd. w/100 SX

PBTD 4130  
TD 4290

Pertinent Data

4 3/4" HOLE

CAUSEAL CAP ON  
LEAD WOOL PLUG

P&A 3-31-75



Lease MALJAMAR GRAYBURG Unit Well # 11

Field MGU

| Date     | Description                                                                                 | Production |          |
|----------|---------------------------------------------------------------------------------------------|------------|----------|
|          |                                                                                             | Before     | After    |
| 10-10-48 | SPADDED                                                                                     |            |          |
| 1-13-49  | COMPLETED AS OPEN HOLE<br>FRACED OPEN HOLE 3963-4150 W/10000<br>GALS FRAC OIL W/15000# SAND |            |          |
|          | POTENTIAL                                                                                   | NEW        | 100 BOPD |



CALCULATION SHEET  
Chevron USA Inc.

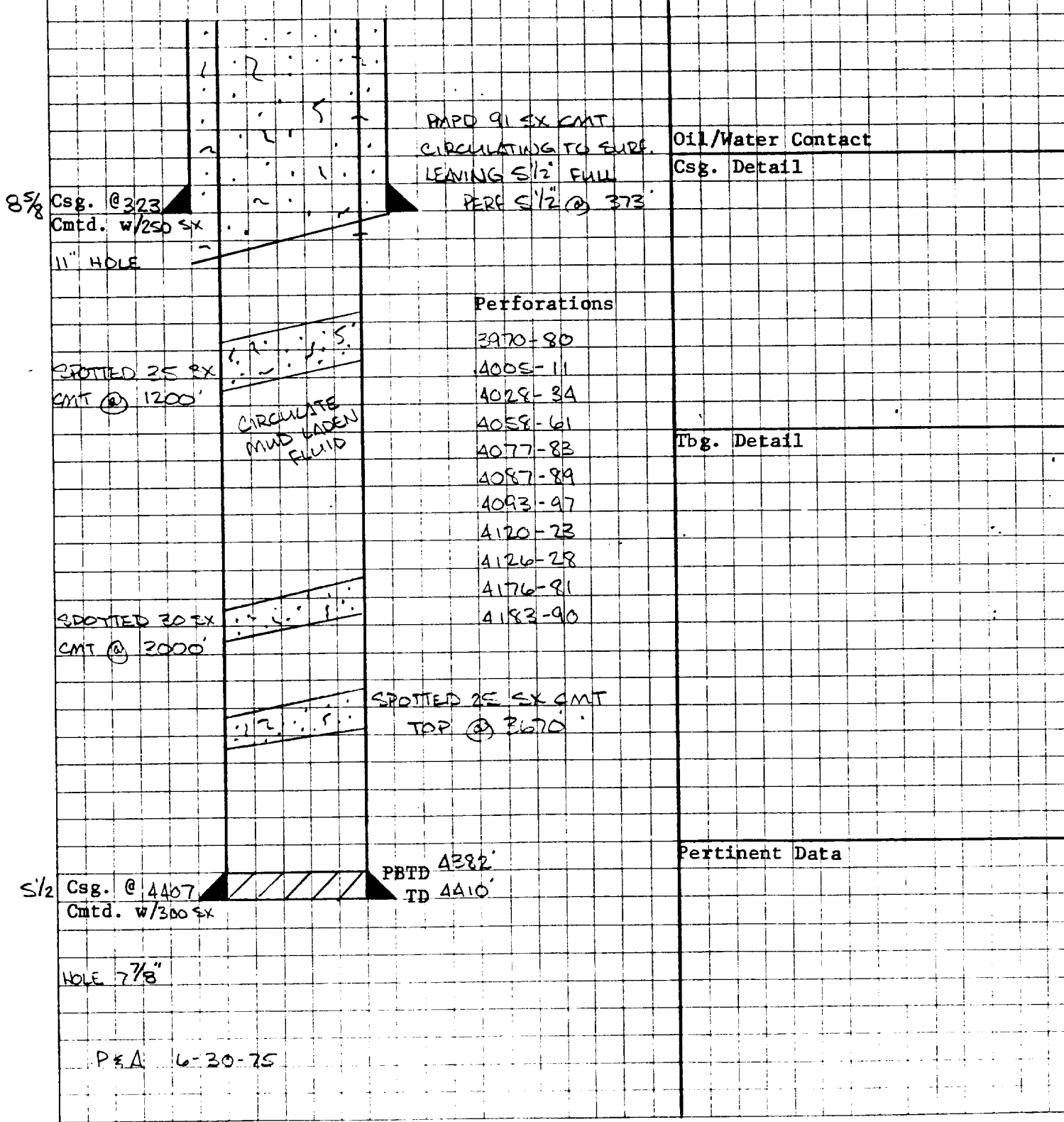
Date 6/18/84

Prepared by SCH Page No. of

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|-------|----------|------------|----------------|
| Title | Location | Department | Project Number |
|-------|----------|------------|----------------|

|                                     |                    |                     |            |            |
|-------------------------------------|--------------------|---------------------|------------|------------|
| Lease MALAMAR GRAYBURG UNIT         | Well # 18          | Field MGU           |            |            |
| Location 1980' FNL, 660' FEL UNIT H | Section 4          | Township 17-S       | Range 32-E | Block      |
| Type of Comp. SELECT PERE           | Current Status P&A | WTR INJ             | Survey     |            |
| County LEA                          | State NM           | Date Completed 3-60 | KB 4229    | DF GL 4218 |

CUT OFF CSG, WELDED STEEL PLATE, SET 4' MARKER Formation Tops



**CALCULATION SHEET**  
**Chevron U.S.A. Inc.**

6/18/84

Prepared by  
SLN

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| Title           | Date        | Page        |
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| 42.             |             |             |

Location

Department

### Supplemental Well History

Lease MALJAMAR GRAYBURG UNIT Well # 18

Field MGU

**Production**

**Date**

Before

After

2-24-60

SPUDDED

3-60

PERF 400S - 4190 SELECTIVELY

ACID W/ 4000 GALS

FRACED W/ 35,000 GALS REFINED OIL & 75,000<sup>+</sup> SAND

## POTENTIAL

NEW

43 Bo

Q. 23

35.5 API

GOR 801

# CALCULATION SHEET Chevron USA Inc.

Date 1/24/83

Prepared by SCH Page No. 01

|       |          |            |                |
|-------|----------|------------|----------------|
| Title | Location | Department | Project Number |
|-------|----------|------------|----------------|

|                                                                                                                                                                                                                                                                                                                                                                        |                                  |                      |            |           |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------|------------|-----------|---------|
| Lease MALAMAR GYRG UNIT                                                                                                                                                                                                                                                                                                                                                |                                  | Well # 19            |            | Field MGU |         |
| Location 1950' E, 1660' E                                                                                                                                                                                                                                                                                                                                              | Section 4                        | Township 17-S        | Range 32-E | Block     |         |
| Type of Comp. SELECT PERE                                                                                                                                                                                                                                                                                                                                              | Current Status PRODUCER - PMRG E |                      | Survey     |           |         |
| County LEA                                                                                                                                                                                                                                                                                                                                                             | State N.M.                       | Date Completed 12-60 | KB 4181    | DF        | GL 4171 |
| Formation Tops                                                                                                                                                                                                                                                                                                                                                         |                                  |                      |            |           |         |
| <div style="position: relative;"> <div style="position: absolute; left: 0; top: 0; width: 100%; height: 100%; border: 1px solid black; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div> <div style="position: absolute; left: 20%; top: 20%; width: 60%; height: 60%; border: 1px solid black;"></div> </div> |                                  |                      |            |           |         |
| Oil/Water Contact                                                                                                                                                                                                                                                                                                                                                      |                                  |                      |            |           |         |
| Csg. Detail                                                                                                                                                                                                                                                                                                                                                            |                                  |                      |            |           |         |
| 5 1/2" 14* J-EE CSG LDD (C) 4100'                                                                                                                                                                                                                                                                                                                                      |                                  |                      |            |           |         |
| Perforations                                                                                                                                                                                                                                                                                                                                                           |                                  |                      |            |           |         |
| 3915-32 2 C/PF                                                                                                                                                                                                                                                                                                                                                         |                                  |                      |            |           |         |
| 3954-64 4 "                                                                                                                                                                                                                                                                                                                                                            |                                  |                      |            |           |         |
| 4009-15 4 "                                                                                                                                                                                                                                                                                                                                                            |                                  |                      |            |           |         |
| 4044-53 4 "                                                                                                                                                                                                                                                                                                                                                            |                                  |                      |            |           |         |
| 4071-81 4 "                                                                                                                                                                                                                                                                                                                                                            |                                  |                      |            |           |         |
| Tbg. Detail                                                                                                                                                                                                                                                                                                                                                            |                                  |                      |            |           |         |
| KB 1000                                                                                                                                                                                                                                                                                                                                                                |                                  |                      |            |           |         |
| 130-ITS 2 3/8" 4.7* J-EE 4047.87                                                                                                                                                                                                                                                                                                                                       |                                  |                      |            |           |         |
| SN .75                                                                                                                                                                                                                                                                                                                                                                 |                                  |                      |            |           |         |
| MUD ANCHOR 26.48                                                                                                                                                                                                                                                                                                                                                       |                                  |                      |            |           |         |
| 4085.10                                                                                                                                                                                                                                                                                                                                                                |                                  |                      |            |           |         |
| TRG ABOVE GL - 1.50                                                                                                                                                                                                                                                                                                                                                    |                                  |                      |            |           |         |
| LDD (C) 4083.60                                                                                                                                                                                                                                                                                                                                                        |                                  |                      |            |           |         |
| (122 ITS)                                                                                                                                                                                                                                                                                                                                                              |                                  |                      |            |           |         |
| Pertinent Data                                                                                                                                                                                                                                                                                                                                                         |                                  |                      |            |           |         |
| 5 1/2" Csg. @ 4100' PBTB 4090' TD 4100'<br>Cmt. w/400 SX                                                                                                                                                                                                                                                                                                               |                                  |                      |            |           |         |
| 122 ITS - 122/10 TYP V.                                                                                                                                                                                                                                                                                                                                                |                                  |                      |            |           |         |

Supplement to Well Completion Report - Potassium Chloride Brine and Calgon S-31 in two stages separated by 8# Calgon D-240 in 20 bbl. slug, flushed with KCl brine. Cost \$1019.

Prior Production: 20 BOPD - 0 BWPD - January, 1967

- 2-9-67 Rigged up wellhead for pressure, filled annulus with 80 bbls. 8.5% KCl brine at rate of 5 BPM, 0 psi, first 55 bbls. Next 25 bbls. at 2-3 BPM at 1100-1500 psi, pumped 50 bbls. stage brine containing 55 gallon Calgon S-31 at rate of  $1\frac{1}{2}$  BPM at 1900 psi first 5 bbls. Eased pressure up to 2400 psi. at 3 BPM. Pumped remainder of 50 bbl. at rate of 2 BPM at 2200 psi. Pumped 20 bbls. slug of brine containing 8# Calgon D-240 Polymer average rate of 3 BPM 1500 psi. Pumped second stage 50 bbl. KCl brine containing 55 gal. Calgon S-31 at rate of 2 BPM at 2200 psi, stayed at same rate and pressure throughout second stage, pumped 100 bbl. KCl flush at rate of @ BPM 2200-2400 psi first 25 bbls. next 75 bbls 2 BPM, pressure slowly increased to 2500 psi. 5 min. SIP 1750 psi.
- 2-10-67 Placed well on production, Lack 300 BLW.
- 2-11-67 No tst.
- 2-12-67 Pump stuck. MIPU.
- 2-13-67 Changed pump. P 11 BO 14 BW 11 hrs. Lack 286 BLW.
- 2-14-67 P 14 BO 20 BW. Lack 266 BLW.
- 2-15-67 No test.

#### CHRONOLOGICAL HISTORY

- 5-12-70 Moved in rigged up pulling unit (Clarke Well Service Unit 1 - Hobbs, N.M.)
- 5-13-70 Pulled rods, pump and 2-3/8" tubing. Rigged up wire line unit and perforated intervals 3918-32' in 2 runs with 2 CJPF. Rigged down wire line unit and ran back in hole with tubing, pump and rods. Placed well on production. Rigged down, moved out pulling unit.
- 5-14-70 Pumped 50 BO and 2 BWPD.
- 5-15-70 Pumped 33 BO and 6 BWPD.
- 5-16-70 Pumped 36 BO and 2 BWPD.
- 5-18-70 Pumped 39 BO and 1 BWPD.
- 5-19-70 Pumped 30 BO and 3 BWPD.
- 5-20-70 Pumped 41 BO and 2 BWPD.
- 5-21-70 Pumped 40 BO and 3 BWPD.
- 5-22-70 Pumped 30 BO and 6 BWPD.
- 5-23-70 Pumped 32 BO and 2 BWPD.
- 5-24-70 Pumped 36 BO and 1 BWPD.  
 Prior to workover well was P 39 BO and 0 BWPD.