

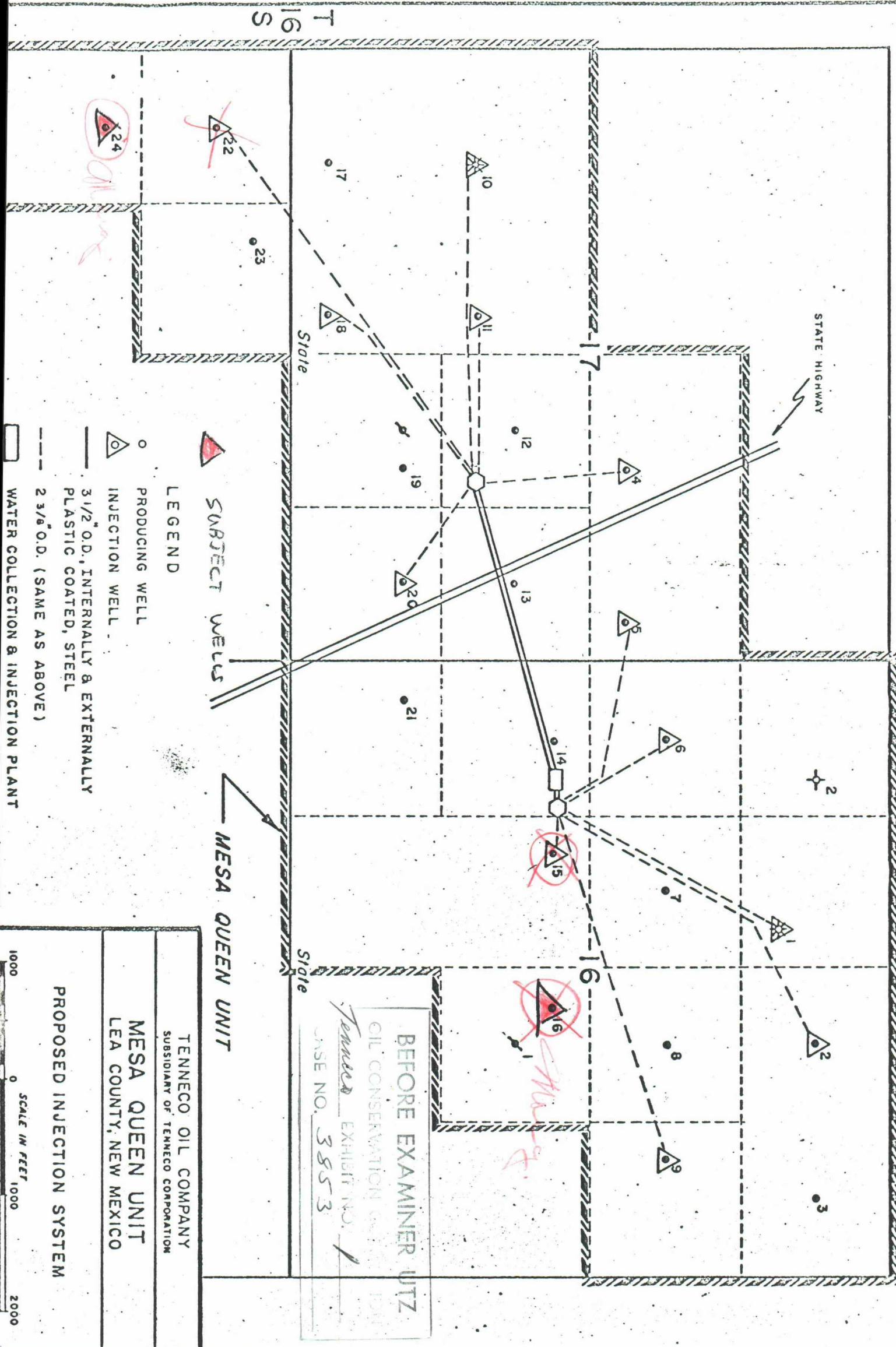


EXHIBIT 1  
CASE 3853

ELEV. 4300'

8-5/8" C @ 375' w/200 Sx.

Est. top cement 2000'

Annulus loaded with corrosion  
inhibited fluid

Fresh water to be injected down  
tubing at 300 - 600 BWPD with  
approx. 1000 - 1500 PSIG surface  
injection pressure.

Seating nipple  
2-3/8", 4.7#, J-55 tubing on tension  
packer at 3360'

Top Queen Sand 3401'  
PAY: Queen Sand

3412'  
3416' Perforations

PBTD 3486'

5-1/2" C @ 3503' w/150 Sx.

TD 3503'

Completed 4-14-64  
Acidized with 250 Gallons  
IPF 47 BOPD + 32 BWPD

TENNECO OIL COMPANY  
SUBSIDIARY OF TENNECO CORPORATION

MESA QUEEN UNIT  
WELL NO. 16

PROPOSED PRODUCING WELL TO BE  
CONVERTED TO INJECTION  
2310' FS & EL Sec. 16 T-16-S, R-32-E  
MESA QUEEN FIELD, LEA CO., N. M.

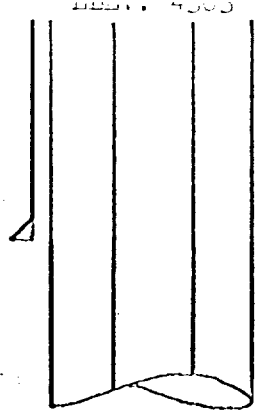
EXHIBIT 2

CASE 3853

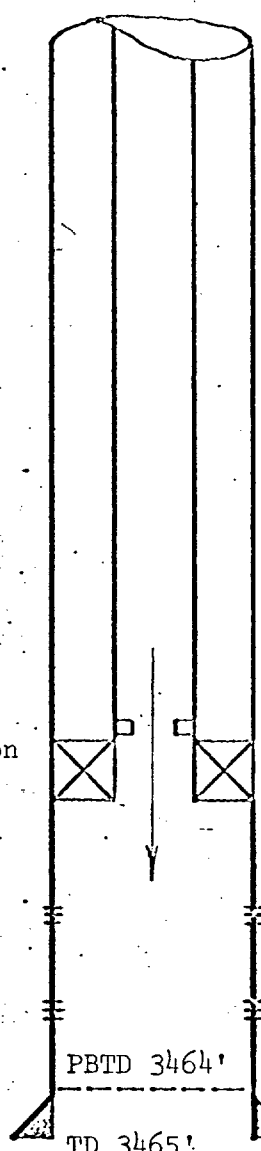
Revised

2

3853



8-5/8" C @ 326' w/200 Sx.



Annulus loaded with corrosion inhibited fluid

Est. top cement 2200'

Fresh water to be injected down tubing at 300 - 600 BOPD with approx. 1000 - 1500 PSIG surface injection pressure

Seating nipple  
2-3/8", 4.7#, J-55 tbg. on tension packer at 3350'

Top Queen Sand 3403'  
Pay Queen Sand

3403 } Existing Perforations  
3408 }  
3412 } Proposed New Perforations  
3420 }

4-1/2" C @ 3464' w/200 Sx.

Completed 6-29-65 from 3403 - 3408  
IPP 48 BOPD after 200 gallons acid

|                                                                                                                                              |  |
|----------------------------------------------------------------------------------------------------------------------------------------------|--|
| TENNECO OIL COMPANY                                                                                                                          |  |
| SUBSIDIARY OF TENNECO CORPORATION                                                                                                            |  |
| MESA QUEEN UNIT WELL NO. 24                                                                                                                  |  |
| PROPOSED PRODUCING WELL TO BE<br>CONVERTED TO INJECTION<br>1650' FNL & 660' FWL<br>Sec. 20 T-16-S R-32-E<br>MESA QUEEN FIELD, LEA CO., N. M. |  |

EXHIBIT 3

CASE 3853

Tenneco

3853

UNIT WELL No 16

|                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| COUNTY LEA<br>FIELD OF LOCATION MESA QUEEN<br>WELL HUMBLE STATE # 1<br>COMPANY MORRIS R. ANTHELL                                                                                                                                                                                                                                                                                                                                                             |  | SCHLUMBERGER                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | COMPANY MORRIS R. ANTHELL                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | WELL HUMBLE STATE # 1                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | FIELD MESA QUEEN                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| COUNTY LEA                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | STATE NEW MEXICO                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| LOCATION 2310' FROM S/L<br>2310' FROM E/L                                                                                                                                                                                                                                                                                                                                                                                                                    |  | Other Services:                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| Sec. 16 Twp. 16S Rge. 32E                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | Permanent Datum: GL Elev. 4340<br>Log Measured From KB 10 Ft. Above Perm. Datum<br>Drilling Measured From KB                                                                                                                                                                                                                                                                                                                                                 |  |
| Date 4-13-64<br>Run No. 045<br>Depth-Driller 3500<br>Depth-Logger 3503<br>Btm. Log Interval 3496<br>Top Log Interval 0<br>Casing-Driller @ 378 @ @ @<br>Casing-Logger 378<br>Bit Size 7 7/8"<br>Type Fluid in Hole SALT                                                                                                                                                                                                                                      |  | Elev. K.B. 4350<br>D.F. 4340<br>G.T. 4340                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| Dens. Visc. 10.4 36<br>pH Fluid Loss 6 7 ml<br>Source of Sample<br>R <sub>1</sub> @ Meas. Temp. 045 @ 75 °F @ °F @ °F @ °F<br>R <sub>2</sub> @ Meas. Temp. @ °F @ °F @ °F @ °F<br>R <sub>3</sub> @ Meas. Temp. @ °F @ °F @ °F @ °F<br>Source R <sub>1</sub> R <sub>2</sub><br>R <sub>1</sub> @ BHT @ °F @ °F @ °F @ °F<br>Time Since Circ. 2 HOURS<br>Max. Rec. Temp. °F °F °F °F<br>Equip. Location 2519 HOBBS<br>Recorded By WILSON<br>Witnessed By VETETO |  | Dens. Visc. 10.4 36<br>pH Fluid Loss 6 7 ml<br>Source of Sample<br>R <sub>1</sub> @ Meas. Temp. 045 @ 75 °F @ °F @ °F @ °F<br>R <sub>2</sub> @ Meas. Temp. @ °F @ °F @ °F @ °F<br>R <sub>3</sub> @ Meas. Temp. @ °F @ °F @ °F @ °F<br>Source R <sub>1</sub> R <sub>2</sub><br>R <sub>1</sub> @ BHT @ °F @ °F @ °F @ °F<br>Time Since Circ. 2 HOURS<br>Max. Rec. Temp. °F °F °F °F<br>Equip. Location 2519 HOBBS<br>Recorded By WILSON<br>Witnessed By VETETO |  |

Reproduced By  
 West Texas Electrical Log Service  
 Dallas 2, Texas

REFERENCE W4302L

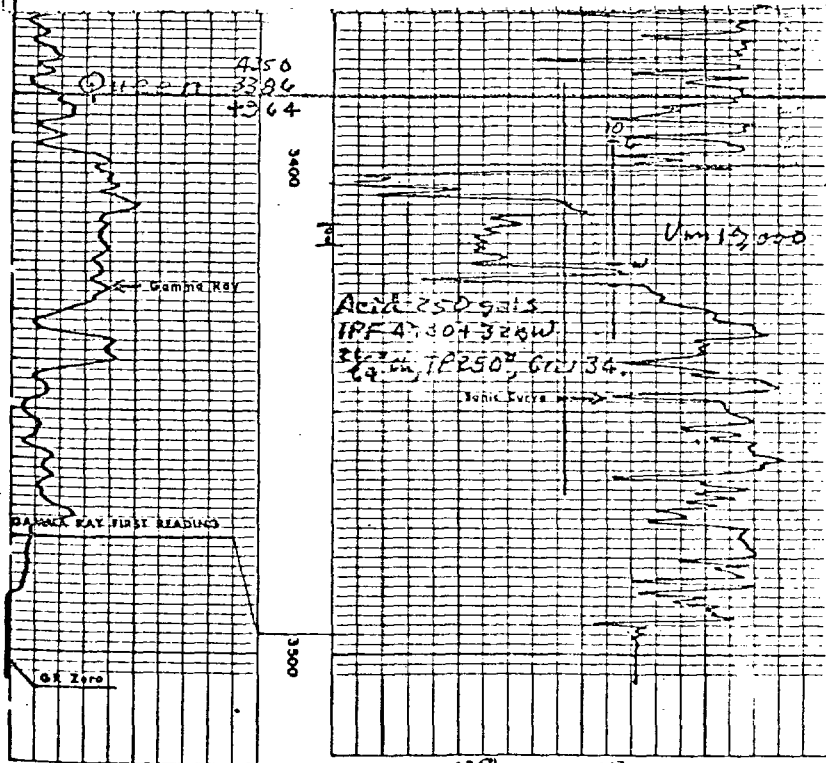


12 COMPLETION RECORD

SPUD DATE

COMP DATE

DST RECORD



|               |             |
|---------------|-------------|
| EXAMINER UTZ  |             |
| Trench        | CRUSH NO. 4 |
| CASE NO. 3853 |             |

EXHIBIT 4  
 CASE 3853

|                                                                        |        |
|------------------------------------------------------------------------|--------|
| 0 125 100 70 40                                                        |        |
| 125 250                                                                |        |
| GAMMA RAY<br>API UNITS                                                 | DEPTHS |
| INTERVAL TRANSIT TIME<br>MICROSECONDS PER FOOT                         |        |
| COMPANY MORRIS R. ANTHELL<br>WELL HUMBLE STATE # 1<br>FIELD MESA QUEEN |        |
| SWSC FR 34.36<br>SWSC TO 1501<br>DRIR TO 1500                          |        |

**SCHLUMBERGER**

|                                                                                                                                                                                                                                          |                                             |                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------|
| COUNTY <u>LEA</u><br>FIELD NO. <u>LEA</u><br>LOCATION <u>MESA GULF #1</u><br>WELL <u>MESA GULF #1</u><br>COMPANY <u>COASTAL STATES</u>                                                                                                   | COMPANY <u>COASTAL STATES GAS PRODUCING</u> |                               |
|                                                                                                                                                                                                                                          | COMPANY _____                               |                               |
|                                                                                                                                                                                                                                          | WELL <u>MESA GULF #1</u>                    |                               |
|                                                                                                                                                                                                                                          | FIELD <u>MESA QUEEN</u>                     |                               |
|                                                                                                                                                                                                                                          | COUNTY <u>LEA</u> STATE <u>NEW MEXICO</u>   |                               |
| LOCATION <u>660' FROM W/L</u><br><u>1650' FROM N/L</u>                                                                                                                                                                                   |                                             | Other Services:<br><u>MLL</u> |
| Sec. <u>20</u> Twp. <u>16S</u> Rge. <u>32E</u>                                                                                                                                                                                           |                                             |                               |
| Permanent Datum: <u>GL</u> Elev. <u>4353.4</u> Elev. <u>K.B. 4363.4</u><br>Log Measured From <u>KB</u> <u>10</u> Ft. Above Perm. Datum <u>D.F.</u><br>Drilling Measured From <u>KB</u> <u>0</u> Ft. Above Perm. Datum <u>G.L. 4353.4</u> |                                             |                               |
| Date                                                                                                                                                                                                                                     | <u>6-24-65</u>                              |                               |
| Run No.                                                                                                                                                                                                                                  | <u>ONE</u>                                  |                               |
| Depth - Driller                                                                                                                                                                                                                          | <u>3427</u>                                 |                               |
| Depth - Logger                                                                                                                                                                                                                           | <u>3418</u>                                 |                               |
| Btm. Log Interval                                                                                                                                                                                                                        | <u>3413</u>                                 |                               |
| Top Log Interval                                                                                                                                                                                                                         | <u>0</u>                                    |                               |
| Casing - Driller                                                                                                                                                                                                                         | <u>8 5/8" 326</u>                           | <u>6"</u>                     |
| Casing - Logger                                                                                                                                                                                                                          | <u>"</u>                                    | <u>"</u>                      |
| Bit Size                                                                                                                                                                                                                                 | <u>7 7/8"</u>                               |                               |
| Type Fluid in Hole                                                                                                                                                                                                                       | <u>SALT GEL</u>                             |                               |
|                                                                                                                                                                                                                                          | <u>STARCH</u>                               |                               |
| Dens. / Visc.                                                                                                                                                                                                                            | <u>10.2</u>                                 | <u>35</u>                     |
| pH / Fluid Loss                                                                                                                                                                                                                          | <u>12</u>                                   | <u>mi</u>                     |
| Source of Sample                                                                                                                                                                                                                         | <u>PIT</u>                                  | <u>mi</u>                     |
| R <sub>100</sub> % Meas. Temp.                                                                                                                                                                                                           | <u>104</u> <u>°F</u>                        | <u>°F</u>                     |
| R <sub>50</sub> % Meas. Temp.                                                                                                                                                                                                            | <u>104.5</u> <u>°F</u>                      | <u>°F</u>                     |
| R <sub>25</sub> % Meas. Temp.                                                                                                                                                                                                            | <u>104</u> <u>°F</u>                        | <u>°F</u>                     |
| Source R <sub>100</sub> R <sub>50</sub> R <sub>25</sub>                                                                                                                                                                                  | <u>M</u> <u>-</u>                           | <u>°F</u>                     |
| % BHT                                                                                                                                                                                                                                    | <u>104</u> <u>°F</u>                        | <u>°F</u>                     |
| Time Since Circ.                                                                                                                                                                                                                         | <u>4</u> HOURS                              | <u>°F</u>                     |
| Max. Rec. Temp.                                                                                                                                                                                                                          | <u>90</u> <u>°F</u>                         | <u>°F</u>                     |
| Equip. Location                                                                                                                                                                                                                          | <u>7011 HOBBS</u>                           | <u>°F</u>                     |
| Recorded By                                                                                                                                                                                                                              | <u>LEFLER</u>                               | <u>°F</u>                     |
| Witnessed By                                                                                                                                                                                                                             | <u>MR. STATON</u>                           |                               |

*West Texas Electrical Log Service*

Dallas 2, Texas

REFERENCE W6392H



4313  
222  
3433

## COMPLETION RECORD

SPUD DATE

COMP DATE

DST RECORD

### CASING RECORD

PHOTO EXAMINER UTZ

## WHICH IS REALITY?

Tenneco EXHIBIT NO.

CASE NO. 3853

EXHIBIT 5  
CASE 3853

PROPOSED NEW PERFS  
3412-3420

|                                        |  |                                        |                                        |
|----------------------------------------|--|----------------------------------------|----------------------------------------|
| GAMMA RAY<br>API UNITS                 |  | 0 100                                  |                                        |
|                                        |  | 0 50 100 150 200 250 312 417 625 1250  |                                        |
| SPONTANEOUS-POTENTIAL<br>millivolts    |  | DEPTHS                                 | RESISTIVITY<br>ohms. m <sup>2</sup> /m |
| RESISTIVITY<br>ohms. m <sup>2</sup> /m |  | RESISTIVITY<br>ohms. m <sup>2</sup> /m |                                        |

COMPANY COASTAL STATES GAS PRODUCING CO.  
 WELL MESA GULF # 1  
 FIELD MESA QUEEN  
 COUNTY LEA STATE NEW MEXICO

SWSC FR 3413  
 SWSC TO 3418  
 DRLR TO 3427  
 Elev. KB 5363.4  
 DF 5353.4  
 GI 5353.4