

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL  
(Other instructions  
refer side)

FE-  
77

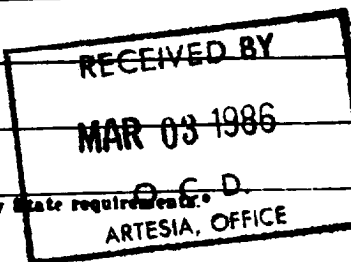
Form approved  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

457

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 "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐  
2. NAME OF OPERATOR  
Siete Oil and Gas Corporation ✓  
3. ADDRESS OF OPERATOR  
P. O. Box 2523, Roswell, NM 88201  
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface  
1830' FNL, 660 FWL



5. LEASE DESIGNATION AND SERIAL NO.  
NM-2938  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
7. UNIT AGREEMENT NAME  
8. FARM OR LEASE NAME  
Arco Federal  
9. WELL NO.  
#1  
10. FIELD AND POOL, OR WILDCAT  
Shugart - SR-Q-G  
11. SEC., T., R., N., OR S.E. AND  
SURVEY OR AREA  
Sec. 24: T18S, R31E  
12. COUNTY OR PARISH  
Eddy  
13. STATE  
NM

14. PERMIT NO.  
15. ELEVATIONS (Show whether DF, HT, GR, etc.)  
3695' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
(Other) ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
ABANDON\* ☐  
CHANGE PLANE ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐  
FRACTURE TREATMENT ☐  
SHOOTING OR ACIDIZING ☐  
(Other) Produced Water ☒  
(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)  
REPAIRING WELL ☐  
ALTERING CASING ☐  
ABANDONMENT\* ☐

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.)

Re: 3261.41(067)

- A. Grayburg, Penrose
- B. 87 Bbls.
- C. Attached
- D. 210 Bbl Fiberglass Tank
- E. Trucked by Jims Water Service
- F. Loco Hills Water Disposal - Ray Westall
- G. N/A

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

SIGNED [Signature]

TITLE Production Supervisor

DATE 2/28/86

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side

# WATER ANALYSIS REPORT

## SAMPLE

LOCATION: ARCO FEDERAL # 1  
 COMPANY : PRO-KEM INC.  
 REF. : SIETE OIL & GAS

DATE: 21-FEB-1986  
 FORMATION -----

## ANALYSIS

- |    |                  |                |
|----|------------------|----------------|
| 1. | PH               | 6.140          |
| 2. | SPECIFIC GRAVITY | 1.135          |
| 3. | HYDROGEN SULFIDE | POSITIVE       |
| 4. | CARBON DIOXIDE   | NOT DETERMINED |
| 5. | DISSOLVED OXYGEN | NOT DETERMINED |

|  |      |         |        |
|--|------|---------|--------|
|  | MG/L | EQ. WT. | *MEQ/L |
|--|------|---------|--------|

### CATIONS

- |    |                |                |          |      |
|----|----------------|----------------|----------|------|
| 6. | CALCIUM (CA)   | 7912           | / 20.1 = | 394  |
| 7. | MAGNESIUM (MG) | 2590           | / 12.2 = | 212  |
| 8. | SODIUM (NA)    | 66379          | / 23.0 = | 2886 |
| 9. | BARIUM (BA)    | NOT DETERMINED | / 68.7 = | 0    |

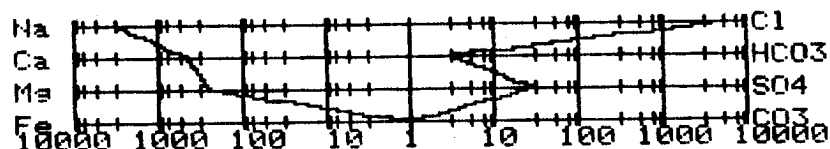
### ANIONS

- |     |                    |        |          |      |
|-----|--------------------|--------|----------|------|
| 10. | BICARBONATE (HCO3) | 177    | / 61.1 = | 3    |
| 11. | SULFATES (SO4)     | 1300   | / 48.8 = | 27   |
| 12. | CHLORIDES (CL)     | 122972 | / 35.5 = | 3464 |

- |     |                         |        |
|-----|-------------------------|--------|
| 13. | TOTAL IRON (FE)         | 26     |
| 14. | TOTAL DISSOLVED SOLIDS  | 201330 |
| 15. | TOTAL HARDNESS AS CaCO3 | 30391  |

### LOGARITHMIC WATER PATTERN

\*MEQ/L



\*MILLI EQUIVALENTS PER LITER  
 CALCULATED CALCIUM SULFATE SOLUBILITY  
 IN THIS BRINE IS 2029 MG/L

### PROBABLE MINERAL COMPOSITION

COMPOUND EQ. WT. X \*MEQ/L = MG/L

|           |       |      |        |
|-----------|-------|------|--------|
| CA(HCO3)2 | 81.04 | 3    | 235    |
| CASO4     | 68.07 | 27   | 1813   |
| CACL2     | 55.50 | 366  | 20316  |
| MG(HCO3)  | 73.17 | 0    | 0      |
| MGSO4     | 60.19 | 0    | 0      |
| MGCL2     | 47.62 | 212  | 10109  |
| NAHCO3    | 84.00 | 0    | 0      |
| NASO4     | 71.03 | 0    | 0      |
| NACL      | 58.46 | 2886 | 168695 |

ESTIMATED TEMPERATURE OF CALCIUM CARBONATE INSTABILITY IS 70 DEGREES F.

REMARKS : -----