Reporting Period 1984

DOCKET NO. E-17247 [ 100428-C ]
KCC KDHE

TO:
STATE CORPORATION COMMISSION
CONSERVATION DIVISION - UIC SECTION
200 COLORADO DERBY BUILDING
WICHITA, KANSAS 67202

S/2 NE/4 &
E/2 SW/4 SEC 15 ,T 20 S,R 12 [X] West [ ] East

Lease Name Hulme Well# 1 Inj.
(if battery of wells, attach list with locations)
Feet from N/S section line 330
Feet from W/E section line 330
Field Workman, Northwest
County Barton
Disposal[ ]or Enhanced Recovery[ X ]

ANNUAL REPORT OF PRESSURE MONITORING, FLUID INJECTION AND ENHANCED RECOVERY

Operator License Number 6033

Operator: Murfin Drilling Company
Name & Address 250 N. Water
Suite 300
Wichita, Kansas 67202

Contact Person Bill Brown
Phone 913 483-5371

Person (s) responsible for monitoring well Alvin Beydler, Chuck Toner
Was this well/project reported last year? [ X ]yes [ ]no
List previous operator if new operator

1. INJECTION FLUID:

Type:
[ ]fresh water
[ X ]brine treated
[ ]brine untreated
[ ]water/brine mixture

Source:
[ X ]produced water
other:

Quality:
Total disolved solids ppm/mgm/liter
Additives
(attach water analysis, if available)

TYPE COMPLETION:

[ ]tubing & packer
[ X ]packerless (tubing-no packer)
[ ]tubingless (no tubing)

* packer setting depth . feet.
Maximum authorized pressure 750 psi.
Maximum authorized rate 500 bbl/day.

| Month | Total Fluid Injected in Month (bbl) | Days of Injection | Maximum Injection Pressure | Average Injection Pressure | Aver. Pressure Tubing to Casing Annulus | Pressure psig Casing to Surf. Pipe |
|---|---|---|---|---|---|---|
| Jan. | 2,896 | 23 | 150 | 54 | 0 | 0 |
| Feb. | 4,425 | 27 | 115 | 71 | 0 | 0 |
| Mar. | 5,122 | 29 | 125 | 89 | 0 | 0 |
| Apr. | 5,606 | 30 | 135 | 101 | 0 | 0 |
| May | 6,210 | 31 | 145 | 104 | 0 | 0 |
| June | 5,843 | 30 | 135 | 103 | 0 | 0 |
| July | 5,148 | 31 | 85 | 85 | 0 | 0 |
| Aug. | 5,932 | 31 | 140 | 95 | 0 | 0 |
| Sept. | 6,295 | 30 | 140 | 105 | 0 | 0 |
| Oct. | 6,990 | 31 | 130 | 103 | 0 | 0 |
| Nov. | 6,931 | 30 | 135 | 103 | 0 | 0 |
| Dec. | 6,158 | 31 | 140 | 104 | 0 | 0 |

Well tests and the results during reporting period:

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*For disposal wells complete page 1 plus section D page 2.
For enhanced recovery wells (repressuring, secondary, tertiary) complete both pages.
Prepare one form for each injection well (SWD and ER) but only one report of Section B and C for each docket (project).

12/83 Form U3C

*Annular space between tubing and casing was filled w/diesel fuel.

oject Hulme #1 DOCKET # C-17247 [ 100428-C ] for 1984

II. Type of Secondary Recovery (check one if appropriate; does not apply to disposal well)

[X ] Controlled waterflood [W]
[ ] Pressure maintenance [P]
[ ] Dump flood [D]

Type of Tertiary Recovery Project (check one if appropriate)

[ ] Steam Flood [S] [ ] Fire Flood [F] [ ] Surfactant Chemical Flood [C]

[ ] CO2 Injection [O] [ ] Air Injection [A] [ ] N2 Injection [N]

[ ] Natural Gas Injection [G] [ ] Polymer/Micellar Flood [P] [ ] Other

Oil Producing Zone:

Name: Arbuckle Depth 3370 feet. Average Thickness 51 feet.

Oil Gravity 38.0 API

Production wells from this docket:

a. Total number producing during reporting year 6.

b. Number drilled in reporting year 1.

c. Number abandoned in reporting year 0.

d. Total number of injection wells assisting production this project 1.

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III. Enter zeros in the current year column only if no oil was produced or no water or gas was injected. If records are incomplete, please estimate the volumes, but in all cases report a volume for the current year. The cumulative column should reflect total volumes since initiation of the project. If records are incomplete please estimate the values.

| | | Current Year | Cumulative |
|---|---|---|---|
| A. | Liquid injected or dumped into producing zone (BBLS) (from side one for current year) | 67.6 67,556 | 562 561,945 |
| B. | Gas or air injected into producing zone (MCF) | 0 | 0 |
| C. | Oil production from project area (BBLS) (Total) | 5.3 5,261 | 289 289,423 |
| D. | Oil production resulting from secondary recovery: (Oil recovered by Dumpflood, Waterflood, Pressure Maintenance by water injection) | 0 | 0 |
| E. | Oil recovered by Tertiary Recovery such as polymer-enhanced waterflood, surfactant polymer injection, alkaline chemical injection, miscible flood or gas injection, steam or hot water injection, or some combution process, but excluding oil recovered by waterflood, pressure maintenance, or dump flood operations. | 0 | 0 |

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IV. I certify that I am personally familiar with the above information and all attachments and that I believe the information to be true, accurate, and complete.

Date June 14, 1985

Signature Bill Brown

Name Bill Brown

Title Prod. Supt.

STATE CORPORATION COMMISSION

JUN 20 1985

CONSERVATION DIVISION

Complete all blanks - add pages if needed.

Copy to be retained for 5 years after filing date.

12/83 FORM U3C

# Treating Chemicals

NL Treating Chemicals/NL Industries, Inc.
P.O. Box 1506, Great Bend, Kansas 67530

## WATER ANALYSIS

DATE March 16, 1984

TO Murfin Drilling
Bill Brown
Box 288

Russell, KS 67665

Hulme #1

| | 1. | 2. | 3. | |
|---|---|---|---|---|
| Specific Gravity | 1.018 | | | |
| Chlorides | 13,700 | | | Milligrams per liter |
| Calcium | 3,350 | | | Milligrams per liter |
| Magnesium | 292 | | | Milligrams per liter |
| Sulfates | 1,600 | | | Milligrams per liter |
| Bicarbonates | 569 | | | Milligrams per liter |
| Iron | 0 | | | Milligrams per liter |
| Hydrogen Sulfide | positive | | | Milligrams per liter |
| Barium | 0 | | | Milligrams per liter |
| Sodium (Calculated) | 5,230 | | | Milligrams per liter |
| Total Dissolved Solids | 24,741 | | | Milligrams per liter |
| pH | 7.3 | | | |
| Sulfate Reducing Bacteria | 1-9 colonies/ml | | | |
| | | | | |
| | | | | |

These results compare with our analysis on October 15, 1981.

cc Alvin Beydler

KDC - WICHITA
MAR 19 1984
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LABORATORY ANALYST

Gee/Brungardt

RESPECTFULLY SUBMITTED

BY Ann Marie Gee

To convert to parts per million, divide by specific gravity.

WA FORM 1 (Rev. 4-83)

| | | | | | | |
|---|---|---|---|---|---|---|
| Nov. | 6,931 | 30 | 135 | 103 | 0 | 0 |