

6-6-89

State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: MARKS, RODNEY ERNEST, SR.

Operator Well No.: MARKS #1

LOCATION:

Elevation:

973.00

Quadrangle: WEST UNION

District: Latitude: Longitude: CENTRAL 11610

4720

County: Feet South of 39 Deg. 17 Min. 30 Sec.

DODDRIDGE

Company:

KEY OIL COMPANY 22 GARTON PLAZA

WESTON, WV 26452-0000

09/19/99

Feet West of 80 Deg. 50 Min. 00 Sec.

Agent:

JAN E. CHAPMAN

Inspector: Permit Issued: Well Work Commenced: MIKE UNDERWOOD 09/03/99 09/13/99

Rig

Well Work Completed: Verbal Plugging

Permission granted on:

Rotary X Cable Total Depth (feet)

5402 Fresh water depths (ft) NONE Salt water depths (ft)__

Is coal being mined in area (Y/N)? N

| Casing & Tubing Size | Used in Drilling | Left In Well | Cement Fill Up Cu. Ft. |
|-------------------------------|------------------------|--------------------|------------------------------|
| 11 ¾" | 128.55' | 128.55' | 70 sks To Surface |
| 8 5/8" | 1824.25' | 1824.25' | sks To Surface |
| 4 1/2" | 5335' | 5335' | 460 sks |
| 2 3/8" | | 5230' | |

Producing formation

Coal Depths (ft): NONE

OPEN FLOW DATA

Gas:

Warren

Balltown Rileys

Benson Alexander

MCF / d

Pay zone depth (ft) Oil: Initial open flow

5200' - 5282' Bbl / d Oil: Final open flow show Bbl / d

3360' - 3429'

3788' - 4478' 4510' - 4922'

4953' - 4962'

Initial open flow Show Final open flow 1,540 1,540 Time of open flow between initial and final tests N/A Static rock pressure 1750 psig (surface pressure) after___

MCF/d

Second producing formation Commingled Gas: Initial open flow

MCF/d Final open flow _ MCF/d

Pay zone depth (ft) Oil: Initial open flow Oil: Final open flow_

Bbl / d

Time of open flow between initial and final tests Static rock pressure _ psig (surface pressure) after

Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For REX OIL COMPA

1999

PRESIDENT

Marks #1 (47-017 -4527) Four Stage Foam Frac - Halliburton

| 1 st Stage: | Alexander (15 holes) (5250.75' to 5274.25') | 60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 811 bbls foam. |
|------------------------|---|--|
| 2 nd Stage: | Benson (9 holes) (4955.50' to 4957.50') Second Riley (4 holes) (4784' to 4784.75') | 60 Quality Foam. 750 gal 15% HCL. 40,000# 20/40 sand, 417,000 SCF N2, 617 bbls foam. |
| 3 rd Stage: | Riley (8 holes) (4554.50' to 4574.75') Balltown (7 holes) (4174.50' to 4290.25') | 60 Quality Foam. 1,000 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 744 bbls foam. |
| 4 th Stage: | Balltown (7 holes) (3881.25' to 3953.75') Warren (6 holes) (3408.75' to 3423.25') | 60 Quality Foam. 1,000 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 684 bbls foam. |

WELL LOG

| KB-GL | 0 | 10 | |
|-------------------------|------|------|--------------------|
| Clay | 10 | 16 | |
| Red Rock & Shale | 16 | 151 | |
| Red Rock & Sand & Shale | 151 | 466 | 2½" H²O @ 260' |
| Sand & Shale | 466 | 526 | |
| Shale | 526 | 626 | |
| Sand | 626 | 630 | |
| Sand & Shale | 630 | 1968 | |
| Little Lime | 1968 | 2010 | |
| Big Lime | 2010 | 2086 | |
| Big Injun | 2086 | 2138 | |
| Shale | 2138 | 2298 | |
| Weir | 2298 | 2425 | |
| Sand & Shale | 2425 | 2766 | |
| Gordon | 2766 | 2790 | |
| Shale | 2790 | 3360 | Gas Checks |
| Warren | 3360 | 3429 | 1918' – No Show |
| Shale | 3429 | 3439 | 2108'- Strong odor |
| Speechley | 3439 | 3562 | 2508' – No Show |
| Sand & Shale | 3562 | 3788 | 3317' -Odor |
| Balltown | 3788 | 4478 | 3718' - Odor |
| Shale | 4478 | 4510 | 4521' - Odor |
| Riley | 4510 | 4577 | 4926' - Odor |
| Shale | 4577 | 4754 | 5208' - Odor |
| Second Riley | 4754 | 4814 | 2200 0001 |
| Shale | 4814 | 4824 | |
| Third Riley | 4824 | 4922 | |
| Shale | 4922 | 4953 | |
| Benson | 4953 | 4962 | |
| Shale | 4962 | 5200 | |
| Alexander | 5200 | 5282 | |
| Sand & Shale | 5282 | 5402 | |
| T.D. | 5402 | | |