



State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Farm name: DAVID BALL & JANICE BALL

Operator Well No. : BALL #1

LOCATION: Elevation: 1068.00

Quadrangle: OXFORD

District: SOUTHWEST
Latitude: 12,975 Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude: 2,350 Feet West of 80 Deg. 50 Min. 00 Sec.

County: DODDRIDGE

Company: KEY OIL COMPANY
22 GARTON PLAZA
WESTON, WV 26452-0000

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 07/11/00
Well Work Commenced: 10/02/00
Well Work Completed: 10/06/00

Verbal Plugging
Permission granted on: _____ Rig
Rotary X Cable _____
Total Depth (feet) 5281'
Fresh water depths (ft) 48'
Salt water depths (ft) 1053'

| Casing & Tubing Size | Used in Drilling | Left in Well | Cement Fill Up Cu. Ft. |
|----------------------|------------------|--------------|------------------------|
| 11 3/4" | 130.40' | 130.40' | 70 sks To Surface |
| 8 5/8" | 1912.20' | 1912.20' | 475 sks To Surface |
| 4 1/2" | 5229' | 5229' | 350 sks |
| 2 3/8" | 5029' | 5029' | |

Is coal being mined in area (Y / N) ? N
Coal Depths (ft) : NONE

OPEN FLOW DATA

Speechley
Rileys
Benson
Elk

Producing formation: Alexander
Gas: Initial open flow 179 MCF / d
Final open flow 1,467 MCF / d
Time of open flow between initial and final tests N/A
Static rock pressure 1700 psig (surface pressure) after 96 Hours

Pay zone depth (ft)
Oil: Initial open flow 0 Bbl / d
Oil: Final open flow show Bbl / d
Hours

3276' - 3391'
4356' - 4738'
4788' - 4793'
4910' - 5000'
5026' - 5110'

Second producing formation: Commingled
Gas: Initial open flow _____ MCF / d
Final open flow _____ MCF / d
Time of open flow between initial and final tests _____
Static rock pressure _____ psig (surface pressure) after _____ Hours

Pay zone depth (ft)
Oil: Initial open flow _____ Bbl / d
Oil: Final open flow _____ Bbl / d
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: KEY OIL COMPANY

By: 
Date: November 22, 2000

PRESIDENT

JAN 5 2001

0000 4556

Ball #1 (47-017 - 4556)
Three Stage Foam Frac - Halliburton

1st Stage: Alexander (11 holes) (5049.25' to 5104') 60 Quality Foam. 500 gal. 15% HCL.
 Elk (5 holes) (4915.50' to 4983.50') 60,000# 20/40 sand, 550,000 SCF N2,
 808 bbls foam.

2nd Stage: Benson (7 holes) (4791.25' to 4792.75') 60 Quality Foam. 750 gal 15% HCL.
 Third Riley (7 holes) (4716.75' to 4722.75') 40,000# 20/40 sand, 417,000 SCF N2,
 613 bbls foam.

3rd Stage: Riley (12 holes) (4381.50' to 4408') 60 Quality Foam. 1,000 gal 15% HCL.
 Speechley (3 holes) (3369.50' to 3370') 5,000# 80/100 sand, 45,000# 20/40 sand,
 502,000 SCF N2, 684 bbls foam.

WELL LOG

| KB-GL | 0 | 10 | 10 |
|-------------------------|------|------|----|
| Clay | 10 | 16 | |
| Shale | 16 | 35 | |
| Shale & Red Rock | 35 | 156 | |
| Sand | 156 | 314 | |
| Sand & Shale | 314 | 346 | |
| Sand & Shale & Red Rock | 346 | 980 | |
| Sand & Shale | 980 | 1855 | |
| Little Lime | 1855 | 1860 | |
| Big Lime | 1860 | 1908 | |
| Big Injun | 1908 | 1988 | |
| Sand & Shale | 1988 | 2148 | |
| Weir | 2148 | 2277 | |
| Sand & Shale | 2277 | 3222 | |
| Warren | 3222 | 3270 | |
| Shale | 3270 | 3276 | |
| Speechley | 3276 | 3391 | |
| Shale | 3391 | 3568 | |
| Baltown | 3568 | 4166 | |
| Shale | 4166 | 4356 | |
| Riley | 4356 | 4433 | |
| Shale | 4433 | 4690 | |
| Third Riley | 4690 | 4738 | |
| Shale | 4738 | 4788 | |
| Benson | 4788 | 4793 | |
| Shale | 4793 | 4910 | |
| Elk | 4910 | 5000 | |
| Shale | 5000 | 5026 | |
| Alexander | 5026 | 5110 | |
| Sand & Shale | 5110 | 5281 | |
| T.D. | 5281 | | |

Gas Checks

2104' - No Show
 3254' - No Show
 3906' - Odor
 4403' - Odor
 4811' - Odor
 5055' - 18/10^{ths} -2" w/water

INDEX 3 MAL