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

Well Operator's Report of Well Work  

Farm Name: DONALD MICHAELS  
Operator Well No.: LONGACRE #3  

LOCATION:  
Elevation: 1022'  
District: WEST UNION  
Latitude: 13100 Feet South of 39 Deg. 20 Min. 00 Sec.  
Longitude: 4220 Feet West of 80 Deg. 45 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: 08/13/02  
Well Work Commenced: 08/22/02  
Well Work Completed: 08/25/02  

Verbal Plugging  
Permission granted on:  
Rotary X Cable Rig  
Total Depth (feet): 2745'  
Fresh water depths (ft): 165'  
Salt water depths (ft): None  

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 15'-18' (3')  

Casing Used Left Cement  
Tubing Drilling Well Cu. Ft.  
8 5/8" 1016' 1016' 235 sks To Surface  
4 1/2" 2690' 2690' 250 sks  

OPEN FLOW DATA  

Keener  
Injun  
Squaw  
Gordon  

Producing formation  Pay zone depth (ft):  
Gas: Initial open flow odor MCF / d  
Final open flow 1,958 MCF / d  
Oil: Initial open flow 0 Bbl / d  
Final open flow show Bbl / d  
Time of open flow between initial and final tests N/A Hours  
Static rock pressure 400 psig (surface pressure) after 96 Hours  

Second producing formation Commingled  
Gas: Initial open flow MCF / d  
Final open flow MCF / d  
Oil: Initial open flow Bbl / d  
Final open flow Bbl / d  
Time of open flow between initial and final tests Hours  
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 WELBORE.  

For: KEY OIL COMPANY  
By: JAN E. CHAPMAN  
Date: October 1, 2002  

PRESIDENT
Longacre #3 (47-017-4697)
Two Stage Foam Frac – B.J. Services

1st Stage: Gordon (12 holes) (2583' to 2616')

2nd Stage: Squaw (7 holes) (1920' to 2000')
Big Injun (18 holes) (1931' to 1962')
Keener (6 holes) (1893' to 1900')

60 Quality Foam. 500 gal. 15% HCL.
35,000# 20/40 sand, 425,000 SCF N2,
535 bbls foam.

60 Quality Foam. 1,000 gal 15% HCL.
40,000# 20/40 sand, 545,000 SCF N2,
585 bbls foam.

WELL LOG

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Damp @ 170'

Gas Checks
1756' – Oil Odor
2071' - Odor
2352' - Odor
2573' – Odor
TD - Odor