



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

*Jan 13*

Well Operator's Report of Well Work

Farm Name: BRYAN & RHONDA ASH

Operator Well No. : ASHBURN #1

LOCATION: Elevation: 1000.00

Quadrangle: WEST UNION

District: WEST UNION  
Latitude: 8,100 Feet South of 39 Deg. 20 Min. 00 Sec.  
Longitude: 6,250 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: 10/28/02  
Well Work Commenced: 12/27/02  
Well Work Completed: 12/31/02

Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth ( feet ) 5433'  
Fresh water depths ( ft ) 190'  
Salt water depths ( ft ) NONE

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

OPEN FLOW DATA

Warren  
Speechley  
Rileys  
Benson

Producing formation Alexander  
Gas: Initial open flow show MCF / d  
Final open flow 1,524 MCF / d  
Time of open flow between initial and final tests N/A  
Static rock pressure 1730 psig ( surface pressure ) after 96 Hours

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

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORMED 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: *Jan Chapman*  
Date: February 6, 2003

PRESIDENT

MAR 1 2003

D000 4712

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
8 5/8"	1016'	1016'	230 sks To Surface
4 1/2"	5386'	5386'	475 sks

RECEIVED  
Office of Oil & Gas Permitting  
FEB 27 2003  
WV Department of Environmental Protection

3304' - 3361'  
3372' - 3470'  
4473' - 4900'  
4954' - 4964'  
5198' - 5293'

Ashburn #1 (47-017-4712)  
Three Stage Foam Frac - BJ Services

1<sup>st</sup> Stage: Alexander ( 15 holes ) ( 5223.50' to 5288.50' ) 60 Quality Foam. 500 gal. 15% HCL.  
60,000# 20/40 sand, 550,000 SCF N2,  
816 bbls foam.

2<sup>nd</sup> Stage: Benson ( 3 holes ) ( 4957.75' to 4958.25' ) 60 Quality Foam. 750 gal 15% HCL.  
Third Riley ( 2 holes ) ( 4874.50' & 4874.75' ) 5,000# 80/100 sand, 45,000# 20/40 sand,  
Riley ( 10 holes ) ( 4435.75' to 4528.75' ) 540,000 SCF N2, 755 bbls foam.

3<sup>rd</sup> Stage: Speechley ( 8 holes ) ( 3378' to 3460.25' ) 60 Quality Foam 1,000 gal 15% HCL.  
Warren ( 6 holes ) ( 3335.75' to 3346.50' ) 5,000# 80/100 sand, 35,000# 20/40 sand,  
464,000 SCF N2, 635 bbls foam.

WELL LOG

KB-GL	0	10	10	
Fill	10	30		
Sand & Shale	30	260		2 1/2" water @ 190'
Sand	260	281		
Red Rock	281	290		
Sand & Shale	290	936		
Red Rock & Shale	936	1012		
Sand & Shale	1012	1200		
Sand	1200	1295		
Sand & Shale	1295	1358		
Sand	1358	1380		
Sand & Shale	1380	1879		
Little Lime	1879	1922		
Big Lime	1922	1975		
Big Injun	1975	2041		
Squaw	2041	2102		
Sand & Shale	2102	2236		
Weir	2236	2332		
Shale	2332	2444		
Berea	2444	2452		
Shale	2452	2650		
Gordon	2650	2690		
Shale	2690	3304		
Warren	3304	3361		
Shale	3361	3372		
Speechley	3372	3470		
Shale	3370	3672		
Balltown	3672	4444		
Shale	4444	4473		
Riley	4473	4552		
Shale	4552	4856		
Third Riley	4856	4900		
Shale	4900	4954		
Benson	4954	4964		
Shale	4964	5198		
Alexander	5198	5293		
Sand & Shale	5293	5433		
T.D.	5433			

**Gas Checks**

1821' - No Show  
2104' - No Show  
2609' - No Show  
3206' - Odor  
3361' - Odor  
4482' - Odor  
4860' - Odor  
5191' - Odor  
5433' - Odor