

WR-35

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Office of Oil & Gas
Office of Chief
APR 26 1999

WV Division of Environmental Protection

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

Well Operator's Report of Well Work

27 - Oct - 98 API # 47 - 85 - 8581 Reviewed

Farm name: PTE

LOCATION:

Elevation:

997.00

Quadrangle: OXFORD

District:

UNION

40 Feet South of 39 Deg.

County: 10 Min. 00 Sec.

RITCHIE

Operator Well No.: PIERCE #2

Latitude: Longitude:

11380

Feet West of 80 Deg.

50 Min. 00 Sec.

Company:

KEY OIL COMPANY

22 GARTON PLAZA

WESTON, WV 26452-0000

Agent:

JAN E. CHAPMAN

Inspector:	SAM HERSMAN
Permit Issued:	10/27/98
Well Work Commenced:	11/09/98
Well Work Completed:	11/14/98
Verbal Plugging	

Permission granted on:

Potent Y: Cable

Rotary X Cable F
Total Depth (feet) 5385'
Fresh water depths (ft) 134', 194'

Salt water depths (ft) NONE

& Tubing Size	in Drilling	Left In Well	Fill Up Cu. Ft.
11 ¾"	127'	127'	70 sks To Surface
8 5/8"	1534.70'	1534.70'	440 sks To Surface
4 1/2"	5218'	5218'	470 sks
2 3/8"		5023'	

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

OPEN FLOW DATA

3259' – 3309'
3319' – 3438'
3618' - 4103'
4376' – 4746'
ay zone depth (ft) 5024' - 5105'

Producing formation Alexander Pay zone depth (ft) 5024' - 5105'

Gas: Initial open flow 15 MCF / d Oil: Initial open flow 0 Bbl / d

Final open flow 1,571 MCF / d Oil: Final open flow show Bbl / d

Time of open flow between initial and final tests N/A Hours

Static rock pressure 1950 psig (surface pressure) after 96 Hours

Second producing formation Commingled Pay zone depth (ft)

Gas: Initial open flow MCF / d Oil: Initial open flow Bbl / d
Final open flow MCF / d Oil: 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 WELLBORE.

For: KEY OIL COMPANY

PRESIDENT

Pierce #2 (47-085 - 8581) Four Stage Foam Frac - Halliburton

	Tour Stage Foarm Flac - Ham	Builton
1 st Stage:	Alexander (14 holes) (5043.25' to 5095.25')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 808 bbls foam.
2 nd Stage:	Third Riley (12 holes) (4727.50 to 4733.75)	60 Quality Foam. 750 gal 15% HCL. 40,000# 20/40 sand, 417,000 SCF N2, 613 bbls foam.
3 rd Stage:	Riley (13 holes) (4416.75' to 4431.50')	60 Quality Foam. 1,000 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 741 bbls foam.
4 th Stage:	Balltown (4 holes) (3685.75' to 4028') Speechley (2 holes) (3332' & 3332.25') Warren (8 hole) (3304' to 3298.75')	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

Dirt & Rocks	0	5	
Sand & Shale	5	36	
Red Rock	36	48	
Sand & Shale	48	108	
Sand & Shale & Red Rock	108	132	½" H²O @ 130′
Shale & Sand	132	424	1/4" H ² O @ 194'
Red Rock & Shale	424	502	
Sand & Shale	502	591	
Red Rock & Sand & Shale	591	802	
Sand	802	860	
Sand & Shale	860	1023	
Sand	1023	1148	
Sand & Shale	1148	1354	
Sand	1354	1450	
Sand & Shale	1450	1740	
Little Lime	1740	1790	
Sand & Shale	1790	1886	
Big Lime	1886	1938	
Big Injun	1938	2016	
Shale	2016	2189	
Weir	2189	2322	
Sand & Shale	2322	2597	
Gordon	2597	2606	
Shale	2606	3259	Gas Checks
Warren	3259	3309	1900' – No Show
Shale	3309	3319	2527' – No Show
Speechley	3319	3438	3012' - No Show
Sand & Shale	3438	3618	3662' – No Show
Balltown	3618	4103	$4692' - 2/10^{ths} - 1" \text{ W/H}^2\text{O}$
Shale	4103	4376	4848' - 2/10 ^{ths} - 1" w/H ² O
Riley	4376	4452	5160' – No Show
Shale	4452	4700	3100 - 140 3110W
Third Riley	4700	4746	
Shale	4746	4792	
Benson	4792	4800	
Shale	4800	5024	
Alexander	5024	5105	
Sand & Shale	5105	5385	
T.D. ***	5385	3300	
	5500		