



WR-35

29 - Sep - 97  
API # 47 - 17 - 04401

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

Well Operator's Report of Well Work

Farm name: STOUT, ELIZABETH

Operator Well No. : PEARCY #1

LOCATION: Elevation: 1,118.00

Quadrangle: NEW MILTON

District: NEW MILTON

County: DODDRIDGE

Latitude: 1230 Feet South of 39 Deg. 12 Min. 30 Sec.

Longitude: 9910 Feet West of 80 Deg. 42 Min. 30 Sec.

Company: KEY OIL COMPANY  
22 Garton Plaza  
WESTON, WV 26452-0000

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD  
Permit Issued: 09/19/97  
Well Work Commenced: 09/29/97  
Well Work Completed: 10/13/97

Verbal Plugging  
Permission granted on: \_\_\_\_\_ Rig  
Rotary X Cable \_\_\_\_\_  
Total Depth ( feet ) 5331'  
Fresh water depths ( ft ) 52', 79', 443'  
Salt water depths ( ft ) NONE

Is coal being mined in area ( Y / N )? N  
Coal Depths ( ft ): 34' (3')


OPEN FLOW DATA

Warren  
Speechley  
Balltown  
Rileys  
Benson

Producing formation: Alexander  
Gas: Initial open flow 189 MCF / d  
Final open flow 1,508 MCF / d  
Time of open flow between initial and final tests N/A  
Static rock pressure 1475 psig ( surface pressure ) after 96 Hours  
Pay zone depth ( ft )  
Oil: Initial open flow 0 Bbl / d  
Oil: Final open flow show Bbl / d

Second producing formation  
Gas: Initial open flow \_\_\_\_\_ MCF / d  
Final open flow \_\_\_\_\_ MCF / d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock pressure \_\_\_\_\_ psig ( surface pressure ) after \_\_\_\_\_ Hours  
Pay zone depth ( ft )  
Oil: Initial open flow \_\_\_\_\_ Bbl / d  
Oil: Final open flow \_\_\_\_\_ Bbl / d

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORMATED 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: March 26, 1998

PRESIDENT

March 26, 1998

MAY 11 1998

0000 4401

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
11 3/4"	130.80'	130.80'	70 sks To Surface
8 5/8"	1590.55'	1590.55'	465 sks To Surface
4 1/2"	5294.6'	5294.6'	500 sks
2 3/8"		5163'	

Pearcy #1 ( 47-017-04401 )  
Four Stage Foam Frac - Halliburton

1<sup>st</sup> Stage: Alexander ( 12 holes ) ( 5183.25' to 5245.50' ) 60 Quality Foam. 500 gal. 15% HCL.  
60,000# 20/40 sand, 550,000 SCF N2,  
811 bbls foam.

2<sup>nd</sup> Stage: Benson ( 6 holes ) ( 4901.25' to 4902.50' ) 60 Quality Foam. 750 gal. 15% HCL.  
Third Riley ( 6 holes ) ( 4799.75' to 4806' ) 40,000# 20/40 sand, 417,000 SCF N2,  
616 bbls foam.

3<sup>rd</sup> Stage: Riley ( 12 holes ) ( 4441.75' to 4466.25' ) 60 Quality Foam. 1000 gal 15% HCL.  
Balltown ( 2 holes ) ( 4063.75' to 4064' ) 5,000# 80/100 sand, 35,000# 20/40 sand,  
438,000 SCF N2, 647 bbls foam.

4<sup>th</sup> Stage: Speechley ( 10 holes ) ( 3308' to 3421.75' ) 60 Quality Foam. 1,000 gal 15% HCL.  
Warren ( 2 holes ) ( 3272.50' to 3372.75' ) 5,000# 80/100 sand, 45,000# 20/40 sand,  
502,000 SCF N2, 684 bbls foam.

WELL LOG

Fill and clay	0	14	
Shale	14	34	
Coal	34	37	Damp @ 50'
Sand and Shale & Red Rock	37	237	1/2" H <sub>2</sub> O @ 79'
Sand	237	252	
Sand & Red Rock & Shale	252	432	
Sand & Shale	432	474	1/2" H <sub>2</sub> O @ 443'
Red Rock	474	483	
Sand & Shale	483	698	
Red Rock	698	760	
Shale & Red Rock	760	1850	
Little Lime	1850	1872	
Shale	1872	1906	
Big Lime	1906	1972	
Big Injun	1972	2050	
Shale	2050	2186	<b>GAS CHECKS</b>
Weir	2186	2286	2004' - 2/10 <sup>ths</sup> 1/2" w/H <sub>2</sub> O
Shale	2286	2391	2501' - 2/10 <sup>ths</sup> 1/2" w/H <sub>2</sub> O
Berea	2391	2404	3000' - 10/10 <sup>ths</sup> 1/2" w/H <sub>2</sub> O
Sand & Shale	2404	2602	3715' - 20/10 <sup>ths</sup> 1/2" w/H <sub>2</sub> O
Gordon	2602	2626	4211' - 2/10 <sup>ths</sup> 2" w/H <sub>2</sub> O
Sand & Shale	2626	3232	4710' - 4/10 <sup>ths</sup> 2" w/H <sub>2</sub> O
Warren	3232	3292	4990' - 2/10 <sup>ths</sup> 2" w/H <sub>2</sub> O
Shale	3292	3302	TD - 20/10 <sup>ths</sup> 2" w/H <sub>2</sub> O
Speechley	3302	3526	
Shale & Sand	3526	3356	
Balltown	3356	4352	
Shale	4352	4412	
Riley	4412	4483	
Sand & Shale	4483	4792	
Third Riley	4792	4830	
Sand & Shale	4830	4894	
Benson	4894	4904	
Sand & Shale	4904	5140	
Alexander	5140	5253	
Shale	5253	5331	
T.D.	5331		

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

1) Well Operator: KEY OIL COMPANY (6) 511  
2) Operator's Well Number: PEARCY #1 3) Elevation: 1118'

Well type: (a) OIL X / or Gas X / Issued 09/19/97  
Exp. 09/19/99  
(b) If Gas: Production X / Underground Storage /  
Deep / Shallow X /

Proposed Target Formation(s): ALEXANDER 430

Proposed Total Depth: 5600 feet  
Approximate fresh water strata depths: 90

8) Approximate salt water depths: -0-

9) Approximate coal seam depths: N/A Permitting  
Office of Oil & Gas

10) Does land contain coal seams tributary to active mine? Yes / No X /

11) Proposed Well Work: DRILL, STIMULATE PRODUCE

12)

RECEIVED  
WV Division of  
Environmental Protection  
SEP 18 1997

CASING AND TUBING PROGRAM

TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT

TYPE	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						
Fresh Water	11 3/4	ERW	42	132	132	3058/18-1-3
Coal						70 SKS TO SURFACE
Intermediate	8 5/8	ERW	23	1570	1570	3858/18-1-2
Production	4 1/2	J-55	10.5	5500	5500	415 SKS TO SURFACE
Tubing	1.5					490 SKS
Liners						3058/18-1-1

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

FOR OFFICE OF OIL AND GAS USE ONLY

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPC2  
 Plat  WW-9  WW-25  Bond \_\_\_\_\_ (Type)  
10/30

1) Date: 9-16-97  
2) Operator's well number PEARCY #1  
3) API Well No: 47-017 - 4401  
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

RECEIVED  
WV Division of  
Environmental Protection

4) Surface Owner(s) to be served: 5) (a) Coal Operator: **NONE**  
(a) Name ELIZABETH STOUT  
Address P. O. BOX 216  
WEST UNION, WV 26456

(b) Name \_\_\_\_\_ (b) Coal Owner(s) with Declaration SEP 18 1997  
Address \_\_\_\_\_ Name \_\_\_\_\_  
Address \_\_\_\_\_

(c) Name \_\_\_\_\_ Name \_\_\_\_\_  
Address \_\_\_\_\_ Address \_\_\_\_\_  
Office of Oil & Gas

6) Inspector MIKE UNDERWOOD (c) Coal Lessee with Declaration  
Address RT. 2 BOX 135 Name \_\_\_\_\_  
SALEM, WV 26426 Address \_\_\_\_\_  
Telephone (304)-782-1043

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_ on the above named parties, by:

- Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Wells Operator KEY OIL COMPANY  
By: [Signature]  
Ms. PRESIDENT  
Address 22 GARTON PLAZA  
WESTON, WV 26452

Telephone 304-269-7102  
Subscribed and sworn before me this 16TH day of SEPTEMBER, 1997

My commission expires March 24, 2003

