

WR-35

RECEIVED SEP 0 1 1988

State of Mest Nirginia Well No.

Date August 29, 1988
Operator's
Well No. 3

DIVISION OF OIL & GAS DEPT. OF ENERGY

DEPARTMENT. OF ENERGY
Wil und Gas Pivision

Farm Shepard

API No. 47 - 095 - 1248

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas x / Liquid Injection	on	/ Waste	Disposal	. /	
(If "Gas," Production X / Undergro	brund	Storage	/ Deep	Shal	.10w_x_/)
LOCATION: Elevation: 1041 Watershed	Sho	ort Run			
District: Centerville County Ty	yler	C	uadrangle	Pennsb	oro
COMPANY Appalachian Energy Div., Inc.				.,,	
ADDRESS Rt. 2, Box 499, Grafton, WV 26354		asing	Used in	[eft	Cerent
DESIGNATED AGENT George R. Williams	1	ubing	Drilling		fill up Cu. ft.
ADDRESS Rt. 2, Box 499, Grafton, WV 26354	-	ize	DETECTION OF	1	
SURFACE CWNER Phyllis Shepard	2	20-16 Cond.			
ADDRESS 1662 Kaiser Drive, Reynoldsburg, OH 4	4306	.8 13-10"	30	0	0
MINERAL RIGHTS OWNER Phyllis Shepard	9	5/8			
ADDRESS 1662 Kaiser Drive, Reynoldsburg, OH 4	4306	8 3 5/8	1660	1660	Surface
OIL AND GAS INSPECTOR FOR THIS WORK Robert		7			
Lowther ADDRESS Middlebourne, WV	[5 1/2			
PERMIT ISSUED 7/1/88		4 1/2	5313	5313	300-ожэ.
DRILLING COMMENCED 7/18/88		3			
DRILLING COMPLETED 7/23/88		2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR PEWORKING. VERBAL PERMISSION OBTAINED ON		Liners used			
GEOLOGICAL TARGET FORMATION Alexander/Benson	n/Ri	ley.	Der	th 5206	feet
Depth of completed well 5343 feet	Ro	tary y	 / Cabl	e T∞ls	
Water strata depth: Fresh 28 feet;					
Coal seam depths:	• –	Is coal	being min	ned in the	area? no_
Coar Seam deputs.					
OPEN FLOW DATA Producing formation Alexander/Benson/F	Rile	v Da	. zona dot	stb See I	Perf. feet
Producing formation Alexander, benson, 1		oil. To	tial oper	o flow	Bb1 /d
Gas: Initial open flow 35 Mcf/d Final open flow 810 Mcf/d		JII: III	nal open	flow o	Bbl/d
Time of open flow between in:					
Static rock pressure 1680 psig(surf					
(If applicable due to multiple completion					SEP U 9 19
Second producing formation			y zone de	pth	feet
Gas: Initial open flow Mcf/d	<u> </u>	Oil: In	- itial ope	n flow	Bb1/d
Final open flow Mcf/d	i E	Oil: Fi	nal open	flow	Bb1/d
Time of open flow between in					
Static rock pressurepsig(surfa					
Concern Francisco	•				anga mija

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

- 1) <u>Alexander</u> perf <u>5208-24</u> w/ 18 holes. Frac w/30,000# 20/40 sand in 315 bbls. water, using 43,500 SCF N₂
- 2) Benson perf 4916-24 w/ 18 holes. Frac w/30,000# 20/40 sand in 313 bbls. water, using 44,600 SCF N₂
- 3) Riley perf 4515-46 2/16 holes. Foam frac w/30,000# 20/40 sand in 700 bbls. 75 quality foam, using 556,000 SCF N₂

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fand salt water, coal, oil and
Sand and Shale	0	655 ·	Hole damp @28'
Red Rock	655	740	Hole wet @ 1595'
Sand and Shale	740	1860	
Big Lime	1860	1960	
Big Injun	1960	2080	
Sand and Shale	2080	2245	•
Weir	2245	2368	
Sand and Shale	2368	4508	DECEMBE
Riley	4508	4547	
Shale	4547	4918	SEP 01 1988
Benson	4918	4924	DIVISION OF OIL & GAS
Shale	4924	5206	DEPARTMENT OF ENERGY
✓ Alexander	5206	5229	
Shale	5229	5343	B
TOTAL DEPTH		5343	
			9
			·
	1	1	1

(Attach separate sheets as necessary)

Well Operator	
By:	
George R. Williams	
Date: August 29, 1988	

APPALACHIAN ENERGY DEV., INC.

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including on!, encountered in the drilling of a well."

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Issued 7/188 Expines 7/190

DIVISION OF OIL AND GAS

WELL WORK PERMIT APPLICATION 25, 1, 670										
1)	Well Ope	rator:	Appa		gy Developmen	Inc.				
2)	Operator	's Well	Number:	Shepar	d No. 3	3) El	evation: 1041'			
4)	Well typ	e: (a)	oil_/	or Gas	<u>X</u> /					
(b) If Gas: Production X / Underground Storage / Deep / Shallow X /										
5)	Proposed	Target	Formation	(s): Ale	xander 439					
6)	Proposed	Total D	epth:	5900	feet	\				
7)	Approxim	ate fres	h water s	trata dept	hs:	80'				
В)	Approxim	ate salt	water de	pths:	N/A					
9)	N/A									
10)	A No X									
11)	Proposed	Well Wo	rk: Drill	& Stimulate						
12)	CASING AND TUBING PROGRAM									
TYPE		· s	PECIFICAT	IONS	FOOTAGE IN	ITERVALS	CEMENT			
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)			
Cond	uctor	11 3/4	·		30'	0	0 Sks.			
	h Water	8 5/8			1636'	1636'←	CTS - 38 CSR 18-11.3			
Coal										
	rmediate			•			CTC 20			
	uction	41/2			5900'	5900'	CTS or 38 CSR 18-11.1			
Tubi										
-										

PACKERS :	Kind	DECETA
PACKERS .	Sizes	JUN 2 4 1988
1407 19	For Divison of Oil and Gas Use Only	DIVISION OF OIL & GAS DEPARTMENT OF ENERGY LION FUND TO WPCP
IL Fee (Du Ch All Blink	Agent
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	JUN 24 1988
Page 1 of <u>10</u>	11N 2 4 1000
Form WW2-A (09/87)	3G JUN 8 6 1200
File Copy	DIVISION OF OIL & GAS
	DEPARTMENT OF ENERGY

. 1) Date	: Jun	e 22.1988		
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DEPARTMENT OF ENERGY

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)		Owner(s) to		် ့ ို 5) (a) Coal	Operator:		
1	(a) Name	Phyllis A. S	hepard	N	ame 🚟	<u>N/A</u>	A STATE OF THE STA	Alder S. S. S. S.
	Address	1662 Kaiser	Dr.	A	ddress 💆 👛	the Cold Cold Cold	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THE REST OF
		Reynoldsburg	OH 43068		A STATE OF S	range of Artist Million		425.43
· 2/4	(b) Name				b) Coal Own			
	Address _		<u> </u>		ame	<u>N/A Adda be</u>		i di mi
		1,000		: A	ddress			Salat print
	(c) Name	i jako karina ili				(c) ha		(\$30°)
	Address				ame	i Addinas	1 3	1.354 siles
				A	ddress			* - 55 %
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6)	Inspector	Robert Lowt	her	(c) Coal Les	see with D	eclar	ation
	Address	General Del	iverv	N	ame 🔝	N/A Add		
	1 (1 kg/s)		e, WV 26149	A	ddress:			
	Telephone	e (304)- <u>75</u>				. da Talep	ionant	(1984) - Z
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· · ·	:	TO THE PERS	ON(S) NAME	D ABOV	E TAKE NOTI	CE THAT:	497	
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	Included	is the leas	se or lease	s or o	ther contin	uing contr	act o	r
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1			Well Opera	tor	Ampalachian E	nergy Develo	pment.	Inc.
17-11	•		By: //	age	Runs	Leans	<u>د</u>	ក្សាស្មាល នេះ
			Its:		President	and the second		ुर्म्ह्यास्य । ।
			Address	/	Rt. 2. Box 49	9		\$ 1920-1-
	•.				Grafton, WV	26354	jak til med til state til	t store in the second
	٠		Telephone		(304) 265 - 4	147	14 set 1 set	र्वे सुन्दर्भः । -
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