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DIVILLE OF OIL & GAS DEPT. OF ENERGY

Mary Hart Little and Mary Mary Mary Mary Mary Mary Mary Mary	

State of Mest Wirginia

DEPARTMENT, OF ENERGY Gil und Gas Bivision

Date	8/15/88	
Opera Well	tor's No. 1	
Farm	Shepard	
ADT N	h 47 - 095	- 1245 ₄

WELL OPERATOR'S REPORT

OF FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

bidinities, travelorario	110,011 0100				
WELL TYPE: Oil / Gas X / Lique (If "Gas," Production Y	uid Injection Undergrouid	/ Wast	e Disposal e/ Deep	/ / Sha.	llow <u>x</u> /) .
LOCATION: Elevation: 1225					
District: Centerville	County Ty	ler	Quadrangle	Pennsb	oro
COMPANY Appalachian Energy Dev., Inc	C •		/		
ADDRESS Rt. 2, Box 499, Grafton, WV	•	Caşing	Used in	[eft	Cerent
DESIGNATED AGENT George R. William		Tubing	Drilling		fill up Cu. ft.
ADDRESS Rt. 2, Box 499, Grafton, W		Size			
SURFACE CWNER Phyllis Shepard		20-16			
ADDRESS 1662 Kaiser Drive, Reynolds		Cond.	30	0	0
MINERAL RIGHTS OWNER Phyllis Shepa		13-10	30_	<u>-</u>	<u> </u>
ADDRESS 1662 Kaiser Drive. Reynolds		9 5/8 Bo 5/9	1788	1788	Surface
OIL AND GAS INSPECTOR FOR THIS WOR		7			
Lowther ADDRESS Middlebourne	• WV	5 1/2			
PERMIT ISSUED 6/21/88		4 1/2	5487	5487	300 sxs
DRILLING COMMENCED 6/24/88		3	3407	3407	7,000
DRILLING COMPLETED 7/1/88		2			
IF APPLICABLE: PLUGGING OF DRY K CONTINUOUS PROGRESSION FROM DRILL: PEWORKING. VERBAL PERMISSION OBTA CN	ING OR	Liners used			
GEOLOGICAL TARGET FORMATION Alexa	nder/Benson/R:	iley	Dep	oth 5380	feet
Depth of completed well 55					
Water strata depth: Fresh					
Coal seam depths:					e area? <u>no</u>
OPEN FLOW DATA					
Producing formation Alexan	der/Benson/Ri	Ley Pa	y zone dep	See l oth <u>Deta</u>	Perf. il feet
Gas: Initial open flow 2					
Final open flow (750)					
Time of open flow	between init	ial and f	inal test	5h	ows
Static rock pressure 1690	psig(surfac	e measure	ement) aft	er <u>48</u> ho	ours shut in
(If applicable due to multip	le completion	1)			
Second producing formation_		Pa	ay zone de	pth	feet
Gas: Initial open flow					
Final open flow	Mcf/d	Oil:_ F	inal open	flow	AUG 2 2 1000
Time of open flo					nows
Static rock pressure	psig(surfac	e masure	ment) atte	:r	JULS SHUE II

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

1) Alexander - perf 5382-92 w/ 18 holes. Frac w/30,000# 20/40 sand in 675 bbls. 75 quality foam using 520,000 SCF. N2.

- 2) Benson perf 5091-97 w/ 18 holes. Frac w/30,000# 20/40 sand in 690 bbls. 75 quality foam using 535,000 SCF N₂.
- 3) Riley perf 4692-4723 w/17 holes. Foam frac w/30,000# 20/40 sand in 700 bbls. 75 quality foam, using 556,000 SCF N₂.

Valuable to Strong

WELL LOG

	W	فككلا بليك	
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fre and salt water, coal, oil and g
Sand and Shale	0	580 .	Hole damp @ 580'
Red Rock	580	610	Hole wet @ 1665'
Sand and Shale	610	2072	
Big LIme	2072	2142	_
Big INjun	2142	2257	·
Sand and Shale	2257	2422	
Weir	2422	2541	
Snad and Shale	2541	4691	
Riley	4 691	4738	
Shale	4738	5092	
Benson	5092	5096	
Shale	5096	5380	
_/Alexander	5380	5408	
Shale	5408	5561	
TOTAL DEPTH		5561	
			·
			·
•			

(Attach separate sheets as necessary)

APPALACHIAN ENERGY DEV.,	INC.
Well Operator	
	,
By:	
George R. Williams	
Date: August 15, 1988	

ote: Regulation 2.02(i) provides as follows:

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

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STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION 0005

1)	Well Op	erator:_	Appala	ာင် chian Energy	Development,	Inc. 2325	1,330
2)	Operato	or's Well	Number:	Shepard	1 No. 1	3) E	Clevation: 122
4)				or Ga			•
		(b)	If Gas:	Productio Dee	n/ Underg P/		ge/ ow_X/
5)	5) Proposed Target Formation(s): Alexander						
6)	Propose	d Total D	epth:	5990'	feet		
7)	Approxi	mate fres	h water s	trata dep	ths:	115'	
8)	Approxi	mate salt	water de	pths:		N/A	
9)	Approxi	mate coal	seam dep	ths:		N/A	
10)	Does la	nd contai	n coal se	ams tribu	tary to act	ive mine?	Yes/ No_X
11)	Propose	d Well Wo	rk: Drill	& Stimulate			
12)			CASIN	G AND TUB	ING PROGRAM		
TYPE		, s	PECIFICAT	IONS	FOOTAGE II	NTERVALS	CEMENT
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Condu	ctor	11 3/4			30'	0'	0 Sks.
Fresh	Water	8 5/8			1820' 18880'	1820'	CTS or 38 CSR 18-11.3
Coal				- The later of the		W	
Intern	mediate						ATA
Produc	ction	41/2			5990'	5990'	CTS or 38 CSR 18-11.1
Tubino	I						
Liners	5						CONTRACTOR OF THE SECONDARY
PACKER	Siz	es					12.1V 2 1000
thole	Dep	oths set _					W 1 7 1988
+9 E	ree(s) p	/-4/	U	n of Oil a ork Permit	nd was Use	Only DIVISIO DEPARTN amation Fun	HEINT OF SINERGI
	Plat	1/4 ww-9	WW-2	\mathcal{A}_{l}	ond 5086	Type)	_ Agent

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date	e:	J	une 8,	1988		
Ope	rator	's wel	l numl	per		
		S	hepard	No. 1		• •
API	Well	No:	47 -	095	_	1245
		State	a - C	ants	_	Dormit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)	Surface Owner(s) to be served:	5) (a) Coal Operator:
	(a) Name <u>Phyllis A. Shepard</u>	NameN/A
	Address <u>1662 Kaiser Dr.</u>	Address
•	Reynoldsburg, OH 43068	
	(b) Name	(b) Coal Owner(s) with Declaration
	Address	NameN/A
		Address
	(c) Name	
	Address	Name
		Address
		•
6)	Inspector Robert Lowther	(c) Coal Lessee with Declaration
	Address General Delivery	Name N/A
	Middlebourne, WV 26149	Address
	Telephone (304)758 - 4764	
	MO MUR DEDGOM(A) MANAD AR	OUT THE WORLD TO THE
	TO THE PERSON(S) NAMED AB	OVE TAKE NOTICE THAT:
	Included is the lease or leases or	other centinging marks as
contr	Included is the lease or leases or acts by which I hold the right to	other continuing contract or
COLLET	Included is the information requir	extract oil and gas <u>ok</u>
Secti	on 8(d) of the Code of West Virgin	ed by Chapter 22B, Article 1,
Dec C1	I certify that as required under C	la (see page 2)
I has	re served copies of this notice and	hapter 22B of the West Virginia Code
1 Mav	re served copies of this notice and	application, a location plat, and
accon	panying documents pages 1 through	_/_ on the above named parties, by:
	Personal Service (Affidavit a	
		stal receipt attached)
	Publication (Notice of Public	ation attached)
	I have read and understand Chapter	22D and 20 CCD 11_10 and I name
to th	e terms and conditions of any perm	it issued under this application
	I certify under penalty of law tha	t I have personally examined and am
famil	iar with the information submitted	on this application form and all
attac	hments, and that based on my inqui	ry of those individuals immediately
respo	nsible for obtaining the information	on, I believe that the information
is tr	ue, accurate, and complete.	on, a believe that the infolmation
	I am aware that there are signification	ant menalties for submitting false
infor	mation, including the possibylity	of fine and imprisonment
	Well Operator	Appala¢hian Energy Development. Inc.
	By: Lench	Ru Illiano
	Its:	President
	Address	Rt. 2. XX Box 499
	/	Grafton, WV 26354
	Telephone	(304) 265 - 4147
Subsc	ribed and sworn before me this 8th	
	Tregory U. Smith	Notary Public
Му со	mmissoon expires12/7/92	
•		JUN 2 7 1988
		. 1999