







WR-35

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY



State of West Wirginiu

DEPARTMENT. OF ENERGY
Oil und Gas Bivision

Date 6/7/88					
Operator's					
Well No. #1A					
Farm L. Garner					
	- 1236				

WELL OPERATOR'S REPORT

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DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas $_{ m X}$ / Liquid Injection (If "Gas," Production $_{ m X}$ / Undergrou	/ Wast	e Disposal e/ Deep	/ / Sha	llow <u>x</u> /) .
LOCATION: Elevation: 1084 Watershed Mu	dlick Run			
District: Centerville County Tyler				ro
COMPANY Appalachian Energy Dev., Inc.				
ADDRESS Rt 2, Box 499 Grafton, Wv 26354	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT George R. Williams	Tubing	Drilling	in Well	Cu. ft.
ADDRESS Rt 2, Box 499 Grafton, Wv 26354	Size			
SURFACE CWNER Lovie Garner	20-16			
ADDRESS 104 14th St., Massilon, Ohio 44646	Cond. 13-10"			
MINERAL RIGHTS OWNER Lovie Garner	9 5/8	30	0	0
ADDRESS 104 14th St., Massilon, Ohio 44646	8 5/8	1680	1680	surface
OIL AND GAS INSPECTOR FOR THIS WORK Robert	7			
Lowther ADDRESS Middlebourne, Wv	5 1/2			
PERMIT ISSUED 5/17/88		5379	5379	1500'
DRILLING COMMENCED 5/19/88	4 1/2	1 33,73	3375	
DRILLING COMPLETED 5/23/88		5005	5005	
IF APPLICABLE: PLUGGING OF DRY HOLE ON	x2 1½	5225	5225	
CONTINUOUS PROGRESSION FROM DRILLING OR PEWORKING. VERBAL PERMISSION OBTAINED	Liners			
CN VERBAL PERTISSION OBTAINED	Luseu		<u> </u>	
GEOLOGICAL TARGET FORMATION Alexander		Dep	th 5242	feet
	Rotary x	/ Cabl	e T∞ls	
Water strata depth: Fresh 425 feet;				
Coal seam depths: none	Is coal	being mir	ed in the	e area? no
OPEN FLOW DATA Note: These zones are downhole			see p	erf.
Producing formation Alexander/Benson/Riley				
Gas: Initial open flow 35 Mcf/d	OII: III	nal open f	· LION	0 Bb1/d
Final open flow 810 Mcf/d. Time of open flow between init				
Static rock pressure 1655 psig(surface	o measure	ment) afte	er ⁴⁸ ho	ours shut in
(If applicable due to multiple completion		v zone dei	oth	feet
Second producing formation Gas: Initial open flow Mcf/d		itial ope	n flow	Bb1/d
Final open flowMcf/d	Oil. Fi	nal open	flow	Bb1/c
Time of open flow between ini				
Static rock pressurepsig(surface			r ho	ours shut in
Static took pressurepary(surface	- ,,,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		JU	N 1 () 1988
		(Cont	irue on 1	reverse stae

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

- 1) Alexander-perf 5267-86 w/18 holes. Frac w/30,000# 20/40 sand in 363 bbls water, using 56,300 SCF N₂. Avg Rate-26, Avg Pr-2359, ISDP-1350.
- 2) Benson-perf 4978-84 w/16 holes. Frac w/30,000# 20/40 sand in 375 bbls water using 44,100 SCF N₂. Avg rate-26, Avg pr-2750, ISDP-1250.
- 3) Riley-perf 4578-4617 w/18 holes. Foam frac w/30,000# 20/40 sand in 636 bbls 75 quality foam, using 541,361 SCF $\rm N_2$. Avg rate-24 Avg Pr-3220, ISDP-1650.

WELL LOG

	n.		
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga
sand & shale sand shale sand sand & shale sand sand & shale Big Lime Big Injun shale Weir shale Berea shale Riley shale Benson shale Alexander shale total depth	0 265 321 425 447 1525 1575 1913 2022 2145 2308 2427 2493 2497 4578 4636 4977 4985 5242 5293	265 321 425 447 1525 1575 1913 2022 2145 2308 2427 2493 2497 4578 4636 4977 4985 5242 5293 5425 5425	damp @ 425 1" water @ 1525 JUN 1 0 1988 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Appalachian Energy Dev., Well Operator 6/7/88

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 real, encountered in the drilling of a well.

FORM WW-2B

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

WELL WORK PERMIT APPLICATION OOOF 1 538						
WELL WORK PERMIT APPLICATION OSG 7 Well Operator: APPALACHIAN ENERGY DEVELOPMENT, INC. 2325, 1, 538						
2) Operat	or's Well N	umber:	Garner No.	18	3) Elev	ation: 1084'
4) Well t	ype: (a) 0	i1_/	or Gas_	X		
	(b) 1	f Gas: P	roduction_	X/ Undergro	ound Storage_ Shallow_	₹
The second secon		- +- + (Attack and the second of the s		
5) Propos						
6) Propos						
	imate fresh					
THE CONTROL SHOPE	cimate salt					
9) Approx	kimate coal	seam dept	hs:	N/A		
10) Does	land contair	n coal sea	ams tribut	ary to acti	ve mine? Yes	5/ No_X_/
11) Propos	sed Well Wor	k: Drill	& Stimulate			
12)		`\				
,		CASIN	G AND TUBI	NG PROGRAM		CEMENT
TYPE	S	PECIFICAT	IONS	FOOTAGE IN		
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
a 3 - a t o r	11 3/4			30'	0'	O Sks. CTS or 38 CSR
Conductor Fresh Wate			23:	1565'	1565'	18-11.3
	1 0 0,0					
Coal				7		20 680
Intermedia			10.5	5990'	5990 '	CTS or 38 CSR .18-11.1
Production	41/3		10.3		·	
Tubing					100	A TENTONIA
Liners						
PACKERS: Kind						
Depths set						
For Divison of Oil and Gas Use Only DEPARTMENT OF ENERGY						
Fee(s) paid: Well Work Permit Reclamation						
My Plat	MM Plat Ind WW-9 MM WW-2B Bond Sustantil [] Agent					

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Date: May 10, 1988 DIVISION OF OIL & GAS 3) API Well No: 47 - 095 - 1236
DEPARTMENT OF ENERGY State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT Operator swell number Permit 🐺

	5) (a) Coal Operator:
4) Surface Owner(s) to be served:	Name None
(a) Name Lovie E. Garner	
Address, 104 14th Street, SW	Address
Massilon, OH 44646	(b) Coal Owner(s) with Declaration
(b) Name	Name None
Address	Address
	Maria Aliana
(C) Name	Name
Address	Address
	(c) Coal Lessee with Declaration
6) Inspector Robert Lowther	Name None
Address <u>General Delivery</u>	Address
Middlebourne, WV	Address
Telephone (304)- <u>758-4764</u>	
	milama
TO THE PERSON(S) NAMED A	BOVE TAKE NUTICE THAT:
Included is the lease or leases or	r other continuing contract of
The beauties I hold the right to	extract oll and gas <u>or</u>
X Included is the information requi	red by Chapter 22B, Article 1,
- I are the Code of West Virgin	nia (see Dage Z)
r	Chanter 22B of the west virginia code
T level memoral denied of this notice and	d application, a location plat, and
	. The above named bareres's:
V Dorconal Service (XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	TREADSILE OF THE CONTRACT OF T
Certified Mail (Postmarked D	ostal receipt attached)
Publication (Notice of Public	cation attached)
T have read and understand Chapte	r 22B and 38 CSR 11-18, and I agree
to the terms and conditions of any ner	mit issued under this application.
T cortify under negalty of law th	at I have bersonally examined and am
	A on this application foll dud dit
attachments, and that based on my inque responsible for obtaining the informat	irv of those individuals immediately
attachments, and that based on my inqu	ion I believe that the information
is true, accurate, and complete.	cant penalties for submitting false
information, including the possibility	of fine and imprisonment.
Well Operator	Appalachian Energy Development, Inc.
	NO MILITALLIA MANA
By: / Alma	The second of th
Its: Presid	Box 902
	A second
	04-265-4147 2 day of May
Subscribed and sworn before me this T	3 day of 1129 11323
20	xa & William Notary Public
	C2 New Assert Company of the ANN ANN AND AND AND AND AND AND AND AND
My commission expires hard 7, 19	73
	그 하루어, 그리, 빨리가 맞지 그리는 사람들이 모르는 이 그리는 것이다.
	The state of the s