



WR-35

DIVISION OF OIL & GAS DEPT. OF ENERGY State of Mest Mirginia



DEPARTMENT. OF ENERGY Gil und Cas Bivision

Date 10							
Operator's							
Well No.	2						
Farm St	opard						
	_	- 1247					
API No. 47	- 093	124/					

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OCATION: Elevation: 1145 Watershed	Short Run			
District: Centerville County Tyle	r	Quadrangle	Pennsb	oro
COMPANY Appalachian Energy Dev., Inc.				
NDDRESS Rt. 2, Box 499, Grafton, WV 26354	Casing	Used in	Teft	Cerent
DESIGNATED AGENT George R. Williams	Caşing Tubing	Drilling		fill up Cu. ft.
ADDRESS Rt. 22, Box 499, Grafton, WV 26354	Size	DIXIX.9		
SURFACE CWNER Phyllis Shepard	20-16			
ADDRESS 1662 Kaiser Dr., Reynoldsburg, OH 43068	Cond.	20	0	0
MINERAL RIGHTS OWNER Phyllis Shepard	13-10"	30	0	0
ADDRESS 1662 Kaiser Dr., Reynoldsburg, OH 43068	9 5/8	1382	1382	Surface
OIL AND GAS INSPECTOR FOR THIS WORK Robert	8 5/8	1302	1 2302	
Lowther ADDRESS Middlebourne, WV	7			
PERMIT ISSUED 7/1/88	5 1/2		5270	200 000
DRILLING COMMENCED 9/9/88	4 1/2	5379	5379	300 sxs.
DRILLING COMPLETED 10/1/88				
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2			
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
PEWORKING. VERBAL PERMISSION OBTAINED ON	used		<u> </u>	
GEOLOGICAL TARGET FORMATION Alexander / Benson	/ Riley	Der	oth 5298	feet
Depth of completed well 5407 feet	Rotary			
Water strata depth: Fresh 460 feet;				
Coal seam depths: None	Is coal	being mi	ned in th	e area? no
OPEN FLOW DATA NOTE: These zones are downho	TE COMMITM	igieu.	See I	erf. feet
Producing formation Alexander/Benson/Rile	y Pa	ay zone de	e flav	0 Bb1/c
Gas: Initial open flow 45 Mcf/d	011: 11	intial ope	ela:	0 Bb1/c
Final open flow 780 Mcf/d				
Time of open flow between init				
Static rock pressure 1705 psig(surface		ement) alt	E1 48 III	July Shuc I
(If applicable due to multiple completion			4.1-	foo
Second producing formation	P	ay zone de	рш <u>.</u>	
Gas: Initial open flow Mcf/d Final open flow Mcf/d	Oil: I	nitial ope	al etow	
M=E/A	Oil: F	inal open	ITOM	עדממ

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

- 1) Alexander perf 5298-5314 w/ 18 holes. Frac w/30,000# 20/40 sand in 315 bbls. water using 86,000 SCF N₂.
- 2) Benson perf 5007-5016 w/16 holes. Frac w/30,000# 20/40 sand in 315 bbls. water using 87,000 SCF N₂.
- 3) Riley perf 4608-4638 w/16 holes. Foam frac w/30,000# 20/40 sand in 700 bbls. 75 quality foam, using 455,000 SCF N₂.

WELL LOG

	, 112		
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand and shale	0	490 .	Hole damp @ 460'
Red Rock	490	580	Hole wet @ 1550'
Sand and shale	580	2002	•
Big Lime	2002	2070	
Big Injun	2070	. 2186	•
Sand and shale	2186	2340	,
Weir	2340	2454	
Sand and Shale	2454	4608	·
Riley	4608	4638	
Shale	4638	5007	
Benson	5007	5016	
· Shale	5016	5298	
Alexander	5298	5314	
Shale	5314	5407	
TOTAL DEPTH		5407	
		,	
	ı	1	i e e e e e e e e e e e e e e e e e e e

(Attach separate sheets as necessary)

APPALACHIAN ENERGY DEV., INC.	
Well Operator	
	į.
By:	
George R. Williams Date: 10727/88	

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 of a well."

095-1241 Danied 7/1/88 Expires 7/1/90
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STATE OF WEST VIRGINIA

DEPARTMENT	OF	ENERGY,	DIVISION OF	OIL	AND GAS

		DEPART			VISION OF O		
			WELL WO	ORK PERMIT 0397	APPLICATION 232	5, 1, 5	T38
1)	Well Ope	rator:	Appa		gy Developmen		perator.
2)	Operator	's Well	Number:	Shepa	ard No. 2		levation: 1145
4)	Well typ	e: (a)	Oil/	or Gas	5 <u>X</u> /		
((b)	If Gas:	Production Deep	n <u>X.</u> / Undergr	ound Storac Shallo	
5)	Proposed	•	The second second second	الإراهور المعوا المالات			
6)	• many many	rear 2 .		and the same of th	feet		
7)	Approxim	ate fres	h water s	trata dept	hs:	/115' A DESK	
8)	Approxim	ate salt	water de	pths:	N/A		
9)	Approxim	ate coal	seam dep	oths:	N/A	<u> </u>	<u>imala de la la</u>
10)	Does lan	d contai	n coal se	ams tribut	ary to acti	ve mine? Y	es/No_X_/
11)	Proposed	Well Wo	rk: Drill	& Stimulate			a ja Maria (m. 1944). Maria (m. 1944).
12)				Barrier and American			
	in the second se		CASIN	G AND TUBI	NG PROGRAM	rwin in a	
TYPE		<u>, s</u>	PECIFICAT	LONS	FOOTAGE IN	TERVALS	CEMENT
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Cond	uctor	11 3/4			30'	0	0 Sks.
Fres	h Water	8 5/8			1740'	1740'←	CTS 38 CSR 18-11.3
<u>Coal</u>							
Inte	rmediate					·	CTS or 38
Prod	uction	41/2			5900 '	5900'	CSR 18-11.1
Tubi	ng						
Line	rs					DIS	CEIVE
PACK	ERS : Kin						JUN 2 4 1988
	817	PS					

For Divison of Oil and Cas Use Only

DEPARTM

Reclamation Fund

WW-2B

Bond

Type)

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WW-9 (WW-2B

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D	ECEI JUN 24	W		M	1
77	JUN 24	198	8	رلا	2

Date: June 22, 1988	
Operator's well number Shepard No. 2	
	- 1247

DEPARTMENT OF ENERGY

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 h	be served:	5) (a) Coal Operator: Name N/A	
	(a) Name <u>Phyllis A. S</u> Address <u>1662 Kaiser</u>	Dr.	Address	
	Reynoldsburg	OH 43068		
***	(b) Name		(b) Coal Owner(s) with	h Declaration
	Address		Name N/A	
. ,			Address	
	(c) Name	e de la composición dela composición de la composición dela composición de la composición de la composición dela composición dela composición de la composic	24 (A) (A)	
	Address		Name	
			Address	
6)	Inspector Robert Lowth	10°	(c) Coal Lessee with	Declaration
0)	AddressGeneral Deli		Name N/A	
	Middlebourne	WV 26149	Address	
	Telephone (304) - 758			
	rerephone (3047 _736			
	TO THE PERS	ON(S) NAMED ABO	OVE TAKE NOTICE THAT:	
	Included is the leas	e or leases or	other continuing cont	ract or
contr	racts by which I hold	the right to	extract oil and gas <u>OR</u>	
v	Included is the info	rmation require	ed by Chapter 22B, Art	icle 1,
Sect	ion 8(d) of the Code	of West Virgin:	ia (see page 2)	
	I certify that as re	guired under Cl	napter 22B of the <u>West</u>	<u> Virginia Code</u>
I ha	ve corved copies of t	his notice and	application, a locati	on plat, and
acco	mpanying documents pa Personal Servic	ges 1 through e (Affidavit a (Postmarked pos	<pre>8 on the above named :tached) stal receipt attached)</pre>	parties, by:
fami atta resp	he terms and conditio I certify under pena liar with the informa chments, and that bas onsible for obtaining rue, accurate, and co	ns of any perm lty of law thation submitted ed on my inquithe information	22B and 38 CSR 11-18, it issued under this at I have personally ex on this application fry of those individual on, I believe that the	pplication. amined and am orm and all s immediately information
•	I am aware that ther	e are signific	ant penalties for subm	nitting false
info	rmation, including th	e possibility	of fine and imprisonme	nt.
• 14. 1	•	Well Operator	Appalachian Energy Deve	lopment, Inc.
		By: Meng	e grulleam	
		Its:	President'	
		Address/	Rt. 2, Box 499	
			Grafton, WV 26354	
10.14		Telephone	(304) 265 - 4147	1 088
Subs	cribed and sworn before	re me this <u>22nd</u>	_ day of <u>June</u>	Notary Public
My c	ommission expires	12/7	/92	
-				i i