



## WR-35 APR 1 3 1987

DIVISION OF OIL & GAS DEPT. OF ENERGY

## State of Mest Birginia DEPARTMENT, OF ENERGY

Gil und Gas Bivision

Date 4/7/87	
Operator's	
Well No. 1-A	
Farm Hadley	
API No. 47 - 095	- 1176

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMU	LATING, O	R PHYSICAL	CHANGE	7/00 fr = 7/1/00 f			
WELL TYPE: Oil / GasX / Liquid Injection (If "Gas," Production / Undergrou	/ Waste	e Disposal e/ Deep	/ / Sha	llow <u>x</u> /)			
LOCATION: Elevation: 994 Watershed Bi	g Run						
District: Centerville County Tyle			€ West U	nion			
COMPANY Appalachian Energy Dev., Inc.							
ADDRESS Rt 2 Box 499 Grafton, Wv 26354	Casing	Used in	Left	Cement fill up			
DESIGNATED AGENT George Williams	Tubing	Drilling	in Well	Cu. ft.			
ADDRESS Rt 2 Box 499 Grafton, Wv 26354	Size			- 25° ,			
SURFACE OWNER Clarence Hadley	20-16 Cond.						
ADDRESS Rt 1 Middlebourne, Wv 26149	11-3/4	208	208	100 sxs			
MINERAL RIGHTS OWNER Clarence Hadley	9 5/8						
ADDRESS Rt 1 Middlebourne, Wv 26149	8 5/8	1606	1606	320 sxs			
OIL AND GAS INSPECTOR FOR THIS WORK Robert	7	1000	1000	1 320 343			
Lowther ADDRESS Middlebourne, Wv	5 1/2						
PERMIT ISSUED 3/16/87							
DRILLING COMMENCED 3/17/87	3	4997	4997	340 sxs			
DRILLING COMPLETED 3/21/87	2						
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR PEWORKING. VERBAL PERMISSION OBTAINED ON	Liners used						
GEOLOGICAL TARGET FORMATION Benson		Dep	th 4914	feet			
Depth of completed well_5100feet		/ Cabl	e T∞ls_				
Water strata depth: Fresh 215 feet; Salt 2000 feet							
Coal seam depths: None Is coal being mined in the area? No							
				200 cm and			
OPEN FLOW DATA These 2 zones are "downho			54h	foot			
Producing formation Benson				L.			
Gas: Initial open flow - Mcf/d							
"Combined" Final open flow 925 Mcf/d				1			
Time of open flow between init							
Static rock pressure 1610 psig(surface		ment) alu	51 40 NO	urs snuc in			
(If applicable due to multiple completion			- 4 1	<b>E</b> 0 <b>L</b>			
Second producing formation Riley				i i			
Gas: Initial open flow Mcf/d				1			
Final open flow Mcf/d				1			
Time of open flow between ini				i i			
Static rock pressurepsig(surface	e measurei		1	MAY 11 1967 reverse side			

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

- 1.) Benson-perf. 4917-23 w/14 holes. frac w/28000# 20/40 sand in 375 bbls total fluid. Avg Rate-24.5 BPM, Avg Pr-2200 psi, ISIP-1650 psi.
- 2.) Riley-perf. 4519 (2 holes), 4522 (2 holes), 4527-31 (5 holes), 4536 (1 hole), 4538-40 (2 holes), 4548-50 (2 holes). Foam frac w/45000# 20/40 sand in 580 bbls 75 quality foam. Avg Rate-24 BPM, Avg Pr-3600 psi, ISIP-2000 psi.

Note: 3 9/16" baffle left in well @ 4647'.

### WELL LOG

		·	•	· ·		
PODUATE AL				REMARKS		
FORMATION	COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET			
		·	ļ	and salt water, coal, oil and gas		
			1	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	sand & shale	0	200			
	sand	200	215	hole wet @ 215'		
	sand & shale	215	970	note wet & 215		
	red shale	970	1000			
	sand & shale	1000	1845			
	Big Lime	1845	1915			
	Big Injun	1915	2075	hole wet @ 2000', soap hole		
	shale	2075	2242	to total depth.		
	Weir	2242	2354			
	sand & shale	2354	4518			
	Riley	4518	4556	1		
	shale	4556	4914			
	Benson	4914	4924			
	shale	4924	5100	Total Depth-5100		
	Wallet State of the State of th					
	Reference of the Contract of t	Ì				
	No. and and an analysis of the second					
				Note: gas tests were inaccura		
	# Programme			due to foam in hole.		
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	Marian Company					
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			]			
	00.11					
	recipirates					
			1			
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(Attach separate sheets as necessary)

Appalachian Energy Dev., Well perator *4*/17/87 Date:

Regulation 2.02(i) provides as follows:

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





)	Date:	3/16	, 19_87
)	Operator's	. (0.)	,

Well No.\_ 3) API Well No. 47
State 095 County 1176 Permit

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

## **APPLICATION FOR A WELL WORK PERMIT**

4)	WELL TYP	E: A C	Oil	/ Gas	<u> </u>						
							/ Under	ground sto	rage	/ Deep	_/ ShallowX/)
5)	LOCATION	001.1			D • D						
	District: <u>Centerville</u>						Count	y:T <u>y</u>	ler	Quadrangle:	West Union
6)	WELL OPERATOR Appalachian EnergyCODE				:	7)	DESIGNATE	DAGENT _Georg	e Williams		
	Address		Devel	opment,	Inc	: 39	7		Address	P. 0. Box	
			Belin	Box 90	12 1	262	50			Belington.	WV 26250
8)	OIL & GAS	INSPEC						9)	DRILLING C	<i>J</i> ,	
•	Name							,	Name <u>Ce</u>	nturv Petrole	um Drilling
	Address	G	eneral	Delive	rv				Address	Vienna, W. V	a.
				ourne.		26149					
10)	PROPOSEI			Drill>		_/ Drill	deener		/ Dadrill	/ Stimulate	X
10)	PROPOSEI	D WELL	WORK.				•		e new formation		4
				. •					e new lormation	1/	
						change in	4 35	11у)		* <del>* * * * * * * * * * * * * * * * * * </del>	
11)	GEOLOGIC						7 30				
	12) Estima	•	•	•		250'		feet			
	13) Approx		•	•		/A		-	N/A		•
	14) Approx	kimate coa	al seam dep	oths:	N	/A		Is coal	being mined in th	e area? Yes	/ No/
15)	CASING A	ND TUB	ING PRO	GRAM							
	SING OR	1	SPEC	CIFICATIONS		1	FO	OOTAGE INT	ERVALS	CEMENT FILLUP	PACKERS
10	BING TYPE	Size	Grade	Weight per ft.	New	Used	For dril	lling	Left in well	OR SACKS (Cubic feet)	
Cond	ductor	11 3	1411		Χ		200		200'	Surface	Kinds
Fresi	h water		1						`		X hours WAIT
Coal											Sizes
Intermediate		8.5/	911	1	Y		1580'		1580'	Surface 2	16EL 39/1 (C)
		411	1		Y		504		5045'	1000' fill	Depths set
Production		42	<del>                                     </del>	1				2	2093	500 SKS	Depuis 3ti
Tubing Liners			1	1		1			***************************************		GentlysticksEV) BY
			<del>                                     </del>	1		1	<del></del>			Ruly 15.0	
			1	1				<del></del>		1017 13.0	Top Bottom
			<del>                                     </del>	1							<del> </del>
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							PERCE	USE O	NI V		
				· <u> </u>				NG PER			
			47-0	95-1176	5	1	MILLI	IG FER	TATT	March	18 87
Perr	nit number_										19
										Da	te
This	permit cover	ring the v	vell operat	or and well	locati	on shown	below is e	vidence of	permission gran	ted to drill in accorda	nce with the pertinent legal re-
quir	ements subject	ct to the	conditions	contained l	nerein a	and on the	reverse he	reof Notif	ication must be g	iven to the District Oil	and Gas Inspector, (Refer to atractor shall notify the proper
distr	ict oil and ga	e construc as inspect	or 24 hour	s before ac	ns and tual pe	rmitted w	ork has co	mmenced.	)	wen operator or his cor	mactor shall notify the proper
	_	•			_		_			to any modifications	and conditions specified on the
	rse hereof.	OIK IS AS C				- <del>-</del>	i, piat, and	a reciamat	ion pian, subject	to any mounications a	ma conditions specified on the
	nit expires		Ma	rch 18,	, 198	39	un	ıless well w	ork is commence	d prior to that date and	prosecuted with due diligence.
										•	
Г											•
I	Bond:	Agent	;   1	ati	Casi	-0	ee	WPGP2	186	Other	
				1273	/(1 )	) 143	56	KV			•
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						• (	<i></i>	$\mathcal{A}$	Alin II	Tolenston	
NO	ΓE: Keep or	ne copy o	f this pern	nit posted a	t the d	Irilling loca	ition.	<del>\\.</del>	cector Di	vision of Oil	and Cas //
	•	••	•	<del>-</del>				_/'/		WY WARAN	and Gas
			See	the reverse	e side (	of the APP	LICANT'	S GOLA 1	or instr <del>uctions</del>	o the well operator.	