





WR-35

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

DEPARTMENT, OF ENERGY
Oil and Gas Pivision

Date	4/7/88					
Operator's						
Well No. #3						
Farm_	Marsh					
API No.	47 - 095	- 1229				

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injecti (If "Gas," Production X / Undergr	on oui	/ Wast	e Disposa e/ Deep	L/ D/ Sha	11 <u>ow_x</u> /) .
LOCATION: Elevation: 905 Watershed	S	hort Run			
District: Centerville County Tyle			Quadrangle	Penns	boro
graphic flag tils right and state of the sta			•		
COMPANY Appalachian Energy Dev., Inc.					
ADDRESS Rt 2, Box 499 Grafton, Wv 26354	Í	Casing	Used in	I eft	Cerent
DESIGNATED AGENT George R. Williams		Tubing	Drilling		fill up Cu. ft.
ADDRESS Rt 2, Box 499 Grafton, Wv 26354	1	Size	521122.9	11. 11012	
SURFACE OWNER Orean Ferrabee		20-16			'
ADDRESS 159 Orpha Ave., Weirton, Wv 26062		Cond.			
MINERAL RIGHTS OWNER Marsh Heirs		13-10"	30	0	0
ADDRESS Pennsbore, Wv		9 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Robert		8 5/8	1090	1090	surface
Lowther ADDRESS Middlebourne, Wv		7			-
PERMIT ISSUED 3/9/88		5 1/2	5100		
DRILLING COMMERCED 3/17/88		4 1/2	5139	5139	300 sxs
DRILLING COMPLETED 3/23/88		3			
IF APPLICABLE: PLUGGING OF DRY HOLE ON		2			
CONTINUOUS PROGRESSION FROM DRILLING OR PEWORKING. VERBAL PERMISSION OBTAINED ON		Liners used			•
GEOLOGICAL TARGET FORMATION Alexander/Benson/I	R 1 1	ev	Dep	See pe	rf 1. feet
Depth of completed well 5300 feet				-	1.
Water strata depth: Fresh 30 feet;				•	
Coal seam depths: none		***************************************			area? no
OPEN FLOW DATA Note: These zones are downhole	co	mmingled			
Producing formation Alexander/Benson/Rile				see pe th _{detai}	rf 1 feet
Gas: Initial open flow 40 Mcf/d			•	,	
Final open flow 820 Mcf/d					
Time of open flow between in				***************************************	
Static rock pressure 1710 psig(surf	ace	measure	ent) afte	r48 hou	ırs shut in
(If applicable due to multiple completion	on-	<i>)</i>			
Second producing formation		Pay	zone dep	th :	feet
Gas: Initial open flow Mcf/d					
Final open flow Mcf/d					
Time of open flow between in					
Static rock pressurepsig(surfa					
	APR	1 5 1988	(Conti	rue on re	verse side,

- Alexander-perf 5070-86 w/18 holes. Frac w/30,000# 20/40 sand in 315 bbls water, using 56,000 SCF N₂. Avg rate-26.4, Avg pr-2548, ISDP-1380.
- 2) Benson-perf 4778-84 w/16 holes. Frac w/ 30,000# 20/40 sand in 317 bbls water, using 55,000 SCF N₂. Avg rate-27.4, Avg Pr-2665, ISDP-1354.
- 3) Riley-perf 4378-4410 w/18 holes. Foam frac w/30,000# 20/40 sand in 636 bbls 75 quality foam. Avg rate-24 BPM, Avg pr-3150, ISDP-1680. Used 480,000 SCF $\rm N_2$.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
sand & shale	0	250	
shale	250	310 ,	1" water @ 71'
sand & shale	310	650	1" water @ 130'
sand	650	1746	1 water w 150
Big Lime	1746	1845	1" water @ 1390'
Big Injun	1845	1950	1 water 6 1370
shale	1950	2118	
Weir	2118	2230	•
• shale	2230	2301	•
Berea shale	2301	2305	
Riley	2305 4372	4372	
shale	4412	4412 4779	
Benson	4779	4775	•
shale	4785	5068	
Alexander	5068	5097	
shale	5097	5300	
total depth		5300	Note: gas tests innaccurate
•			due to soaping of hole.
•			
		4	
		* .	
	1		

(Attach separate sheets as necessary)

Appalachian Energy Dev., Inc.

Well/Operato

Pate: 4/7/88

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 over!, encountered in the drilling of a well."

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4)



1)

Date: March 2, 1988
Operator's well number 2)

Marsh #3

API Well No: 47 - 095 State - County - Permit

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

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

: 3)

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)	Surface Owner(s) to be served:	5) (a) Coal Operator:
	(a) Name Orean Ferrebee	Name None
	Address 159 Orpha Ave.	Address
	Weirton, WV 26062	
	(b) Name	(b) Coal Owner(s) with Declaration
	Address	Name
		Address
	(c) Name	
	Address	Name
		Address
6)	Inspector Robert Lowther	(c) Coal Lessee with Declaration
	Address <u>General Delivery</u>	Name
	Middlebourne, WV 26149	Address
	Telephone (304)758-4764	
	TO THE PERSON(S) NAMED A	BOVE TAKE NOTICE THAT:
		•
XX	Included is the lease or leases of	r other continuing contract or
cont	racts by which I hold the right to	extract oil and gas OR
ÇOMC.	Included is the information require	red by Chapter 22B, Article 1,
Sect	ion 8(d) of the Code of West Virgin	nia (see page 2)
2666	I cortify that as required under	Chapter 22B of the West Virginia Code
T 1-	certify that as required ander	d application, a location plat, and
I na	ve served copies of this notice and	on the above named parties, by:
acco	mpanying documents pages I through	on the above named parties, by:
	xx Personal Service (Affidavit	attached;
	Certified Mail (Postmarked p	ostal receipt attached;
	Publication (Notice of Publi	cation attached)
	I have read and understand Chapte	r 22B and 38 CSR 11-18, and I agree
to t	he terms and conditions of any per	mit issued under this application.
	I certify under penalty of law th	at I have personally examined and am
fami	liar with the information submitte	d on this application form and all
atta	chments, and that based on my inqu	iry of those individuals immediately
		ion, I believe that the information
is t	rue, accurate, and complete.	
		cant penalties for submitting false
info	rmation, including the possibility	of fine and imprisonment.
	/ 7/1/	Appalachian Energy Dev., Inc.
	By: \/\/\	1 Mullous
ė	Its:	President
		P.O. Box 902
		Belington, WV 26250
		304) 265-4147
Subs	cribed and sworn before me this 34	day of Markh , 1988
		Notary Publi
My c	ommission expires Afr. 13,1	995
	-	* - - · · · · · · · · · · · · · · · · · ·

095-1229

FORM WW-2B

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

	DEGARIM	WELL WOR	K PERMIT	APPLICATION	•				
					2325 , 1	1.538			
1) Well Ope	rator: A	ppalachia	n Energy L	Jev., Inc.		1000			
2) Operator	Operator's Well Number: Marsh #3 3) Elevation: 905								
4) Well typ	Well type: (a) Oil/ or GasXX/								
	(b) If Gas: ProductionXX/ Underground Storage/ Deep/ Shallow_X/								
5) Proposed	Proposed Target Formation(s): Alexander 439								
6) Proposed	Proposed Total Depth: 5376 feet								
7) Approxi	Approximate fresh water strata depths: 150 ft., 380, 307								
8) Approxi	mate salt	water de	pths:	155	0 ft. //JJ/				
	41	coam den	the. No	ne $992-8$	901 81X-	-017			
10) Does la	09, 4/18, nd contain	coal se	$oldsymbol{arphi}$ ams tribut	ary to act	ive mine? Ye	s/ NoXX_/			
11) Propose	d Well Wo	Rew ck: Drill							
12)									
12)		CASIN	G AND TUBI	NG PROGRAM					
TYPE	SI	PECIFICAT	IONS	FOOTAGE I	NTERVALS	CEMENT			
1			Weight	For	Left in	Fill-up			
OK R.H.L	Size	Grade	per ft.	drilling	well	(cu. ft.)			
Conductor	11 3/4		42	30	30 CB	as required			
					\5	3805R1B-11.3			
Fresh Water						8csR16-11.2.2			
Coal				1055	1055	surface as required			
Intermediate	8 5/8		23	1055	38CSR18-11.1	520 sks			
Production	4 ½	J55	10.5	5213	5213	or as requir			
Tubing					l (ii)	CENTE			
Liners					I ALLE	WAD 0.0 1000			
PACKERS: Kind									
Sizes									
1240 For Divison of Oil and Gas Use Only									
For Divison of Oil and Gas Use Only Color Fee(s) paid: Well Work Permit Reclamation Fund WPCP									
Plat (# WW-9.	WW WW	-2B 1	Bond <u>506</u>	Slonbet	_ Agent			
Ame.	7/~				(Type)	U			