



DIVISION OF OIL & GAS
DEPT. OF ENERGY



State of Mest Wirginia DEPARTMENT. OF ENERGY

Date	5/25/88				
Operator's					
Well No	#2				
Farm	Marsh				
API No.	47 _095	_ 1228			

(Continue on reverse side)

Gil und Cas Bivision

WELL OPERATOR'S REPORT OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas \times / Liquid Injection (If "Gas," Production \times / Undergrou	/ Wast	e Disposal e/ Deep	L/ D/ Sha	llow <u>×</u> /) .
LOCATION: Elevation: 1121 Watershed 5	Short Ru	n		
District: Centerville County Tyle		Quadrangle	Penns	boro
COMPANY Appalachian Energy Dev., Inc.	~~~~~	1		Coront
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, Wy 26354	Size	·		
SURFACE OWNER Orean Ferrebee	20-16 Cond.			
ADDRESS 159 Orpha Ave, Weirton, Wv 26062	13-10"	30	0	0
MINERAL RIGHTS OWNER Marsh Heirs	9 5/8			
ADDRESS Pennsboro, Wv	8 5/8	1269	1269	surface
OIL AND GAS INSPECTOR FOR THIS WORK Robert	7			
Lowther ADDRESS Middlebourne, Wv	5 1/2			
PERMIT ISSUED 3/9/88	4 1/2	5424	5424	1500'
DRILLING COMMENCED 4/20/88	3			
DRILLING COMPLETED 4/24/88	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR PEWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
GEOLOGICAL TARGET FORMATION Alexander/Benson	/Riley	Dep	See p th <u>deta</u>	perf. ail feet
Depth of completed well 5810 feet I				
Water strata depth: Fresh 220 feet;	Salt_155	5 feet		
Coal seam depths: none				e area?no
OPEN FLOW DATA Note: These zones are downh Producing formation Alexander/Benson/Ri	ley Pay	y zone dep	th <u>det</u>	ail feet
Gas: Initial open flow 64 Mcf/d				
Final open flowMcf/d				
Time of open flow between init				
Static rock pressure 1680 psig(surface	e measure	ment) afte	r_48_hou	ırs shut in
(If applicable due to multiple completion				
Second producing formation	Pa	y zone dep	th	feet
Gas: Initial open flow Mcf/d				
Final open flow Mcf/d	Oil: Fi	nal open f	low	Bbl/d
Time of open flow between init	ial and f	inal tests	h	ours
Static rock pressurepsig(surface	measuren	ent) after	hou	ırs shut in

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

- Alexander-perf. 5267-98 w/12 holes. Frac w/19,000# 20/40 sand in 229 bbls water, using 28,900 SCF N₂. Avg rate-27, Avg pr-12850, ISDP-3500. 1) Alexander-perf. 5267-98 w/12 holes.
- 2) Benson-perf 4998-5004 w/18 holes. Frac w/30,000#120/40 sand in 375 bbls water, using 36,300 SCF N₂. Avg rate-26 Avg, pr-2500;
- 3) Riley-perf 4597-4628 w/16 holes. Foam frac w/30,000# 20/40 sand in 568 bbls 75 quality foam, using 541,000 SCF N2. Avg rate-24, Avg pr-3250, ISDP-1450.

THE WELL LOG STANDED AND THE STANDED

FORMATION COLOR HARD OR SOL	TOP I	FEET	BOITOM FEET	REMARKS Including indication of all freshand salt water, coal, oil and gas
sand & shale		0	220	####
sand		20	245	1" water @ 220
sand & shale	2	45	1545	tyr see ye statt
sand	15	4.5	1575	1½" water @ 1555
sand & shale	15	75	1956	
Big Lime		56	2041	And the war a present of the control
Big Injun		41	2172	give by a billion to read the second
shale		72	2333	mark Makon A and a silver
Weir		33	2452	
shale	1	52	2516	
Berea		16	2522	
shale	t t	22	4597	Taxa (1846 ayın 🚅 (dağı sını)
Riley		97	4629	god of jegogo of the color
shale		29	4990	
Benson shale		98	5004 1 1 1 5 2 6 3	· 基本分类 () () () () () () () () () (
Alexander	4	63	5298	
shale		98	5810	
total depth	, , ,		5810	
cotar copun		.		TO THE POST OF THE GOOD A
	:		v. lentho	A Production of the second of the second
			•	No. 1 Constant of the constant
			e i i i i i i i i i i i i i i i i i i i	Note: Gas tests were
•		ļ		inaccurate due to soaping
	1]	to the second second	yor the note.
				Pright Classification and a stable in the
			200 mm	
	1	1	ar in a second second	and the same of th
			San San Baran Baran Baran Baran	
				History adjusted to the state of the second
				A. Perkinson subseque
			, john	and a fe ddi g effort on the fig. (*)

(Attach separate sheets as necessary)

App	alach⁄ian Energy De	v. Inc.		
We	ell Operator			
By:	Kend Tu	Minn	4	
Date:	5/25/88	Argonia de la composición della composición dell		
-	7		11 - Ng 14 - 1	

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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 only encountered in the drilling of a well."

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Form WW2-A (09/87) File Copy

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MAR	09	1988	7	U	

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

Date:_	March 2,	1988		
	or's well sh #2	number		
API We	11 No: 4	7 - 095	_	1228
	State	- County	_	Permit

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

1) 2)

3)

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)	Surface Owner(s) to (a) Name Orean Fe	to be served:		oal Operator: None
	Address 159 Orph		Address	
	Weirton,	WV 26062		
	(b) Name		(b) Coal	Owner(s) with Declaration
<i>i</i>	(b) NameAddress		Name	owner(s) when been all all all all all all all all all al
	The second secon		Address	
	(c) Name			
	Address		Name	
•			Address	
			-	
6)	Inspector Robert	Lowther	(c) Coal	Lessee with Declaration
	Address General			Dessee with Decidiation
•		ourne, WV 26149		
	Telephone (304) - 7		Mudress _	
	rerephone (504) $-\frac{\tau}{2}$	30-47.04		
	MO MUE DE	PROMICAL MANAGE AN		IOMT OD MILLE
	10 THE PE	ERSON(S) NAMED AE	OVE TAKE I	NOTICE THAT:
I hav	ion 8(d) of the Cod I certify that as we served copies of apanying documents _XX Personal Serv Certified Mai	de of West Virgin required under C this notice and pages 1 through	iia (see pa hapter 22E applicati on the stached)	of the West Virginia Code on, a location plat, and above named parties, by:
familattacrespo	ne terms and condit I certify under pe liar with the infor thments, and that b onsible for obtaining	cions of any permenalty of law that the same information of the information complete. The possibility well operator by: Its: Address Telephone (30)	it issued t I have p on this a ry of thos on, I beli ant penalt of fine an	n Energy Dev., Inc.
	The same of the sa	La Carlo	01.80	Notary Public
Му со	mmission expires	ABA	18.199	5 //
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FORM WW-2B

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

			397		11200	1 /20			
1) Well Or	erator:A	oppalachia	an Energy	Dev., Inc.	1200 J	1,500			
2) Operato	or's Well I	Number:1	Marsh #2		3) Ele	vation: 1121			
4) Well ty	Well type: (a) Oil/ or GasXX/								
	(b) If Gas: Production XX Underground Storage/ Deep/ Shallow X/								
5) Propose	Proposed Target Formation(s): Alexander 439								
•	Proposed Total Depth: 5592 feet								
7) Approx	imate fres	h water s	trata dept	hs: 150 ft	., 391, 59	Ce, 643			
01 Approx	imate calt	water de	nths: 5	1550					
9) Approx	imate coal	seam dep	ths: None	1098-110	03', 1028'-1	030'			
10) Does to	Kon 409, and contai	n cóal se	7. 1/46 ams tribut	ary to act	ive mine? Ye	s/ No <u>xx</u> _/			
11) Propose	ed Well Wo	New rk: Drill							
12)									
en e		CASIN	IG AND TUBI	NG PROGRAM					
TYPE	S	PECIFICAT	IONS	FOOTAGE I	NTERVALS I	CEMENT			
ok RAL	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)			
Conductor	11 3/4		4 2	30	30 G/S	surface as required			
Fresh Water						BESR18-11.3			
Coal						BCSR18-11.2.2			
Intermediat	e 8 5/8		23	1271	1271 06	surface as			
Production	4 ½	J55	10.5	5429	38C5R18-11.1 5429	540 sks or as required			
Tubing				<u></u>					
Liners					DISCI				
PACKERS: Kind									
Sizes									
For Divison of Oil and Gas Use Only									
U Fee(s)	pajd:	Well W	Work Permit		lamation Fund	WPCP			
Plat (WW-9	Ww-	-2B 21 1	30nd <u>505</u>	lonbet	Agent			
1	/	\mathcal{U}	V		(Type)				