



1500

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

State of Mest Bürginü

Department of Mines Gil und Gas Division

Date	April (6 1987						
Operator'	S							
Well No	Rowland	8						
Farm Rowland Land								
API No. 4	7 - 081	- 0743						

WEIL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production / Undergro	ound Storag	e Disposa e/ Dee	l/ p/ Sha	11cw <u>X</u> /)				
IOCATION: Elevation: 1002 Watershed	•	- · · · · · · · · · · · · · · · · · · ·		• .				
District: Marsh Fork County Raleigh Quadrangle Whitesville 7.5								
	:							
COMPANY Allegheny & Western Energy Corp	<u>. </u>							
ADDRESS P.O.Box 2587, Charleston, W.Va., 25329	Casing	Used in	Left	Cement fill up				
DESIGNATED AGENT Dennis L. Mann	• •	Drilling	in Well					
ADDRESS P.O.Box 2587, Charleston, W.Va., 25329	Size							
SURFACE OWNER Rowland Land Co	20-16 Cord.			}				
ADDRESS 1033 Quarrier St, Charleston W.Va	13-10"	41	0	0				
MINERAL RIGHTS OWNER Same	9 5/8	427	427	420 sks				
ADDRESS	8 5/8 i	1 72/	721	420 BRO				
OIL AND GAS INSPECTOR FOR THIS WORK Rodney	7	0010	2010	775				
Dillon ADDRESS Sophia, W. Va	5 1/2	2018	2018	175 sks				
PERMIT ISSUED 10/8/86	<u> </u>	1015	1015	000 1				
DRILLING COMMENCED 10/14/86	4 1/2	4945	4945	·260 sks				
DRILLING COMPLETED 10/27/86	2 ;	 						
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2 .							
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners	ļ						
ON	used							
GEOLOGICAL TARGET FORMATION Devonism Shale		Den	th 5300	feet				
Depth of completed well 4955 feet	,							
Water strata depth: Fresh 40 feet;								
Coal seam depths: N/A		being min		1 2 2 2 2 2				
	- is war	benig kur	en ni die	area: no				
OPEN FLOW DATA		· _						
Producing formation Big Lime/Weir								
Gas: Initial open flow Mcf/d	3							
Final open flow 600 Mcf/d								
Time of open flow between init		-						
Static rock pressure 020 psig(surface		ent) after	r 24 hou	rs shut in				
(If applicable due to multiple completion	•							
Second producing formation Devonian Sh								
Gas: Initial open flow Mcf/d				Bbl/d				
Final open flow (900) Mcf/d	Oil: Fir	al open f	low	Bbl/d				
Time of open flow between init	tial and fi	nal tests	24 ho	urs .				
Static rock pressure 820 psig(surface	measureme	nt) after	<u>24</u> hou	rs shut in				
	7 - 7 - 7 - 4448 1 - 1 - 1 - 4448	' (Conti	tue on re	verse side)				
and the second s				7 1987				

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

2295-2415 perf w/ 9 holes frac w/ 10,000 gal gel acid + 80,000 scf n2 (10) 4 (10) 2507-3675 perf w/ 51 holes frac w/ 60,000# 20/50 sd + 1,000 gal 15% acid + 1,064,000 scf n2 3734-4845 perf w/ 39 holes frac w/ 60,000# 20/50 sd + 1,000 gal 15% acid + 1,224,000 scf n2



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

WELL LOG

FORMATION CO	DLOR HARD	OR SOFT	TOP :	FEET	BOITOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
shale & sar salt sand shale salt sand sandstone & little lime pencil cave big lime shale upper weir shale lower weir shale sunbury shaberea siltstone & gordon grey & brow	shale			0 1471 1634 1736 1858 2157 2196 2203 2414 2502 2552 2630 2652 2862 2881 2888 3074 3084	1471 1634 1736 1858 2157 2196 2203 2414 2502 2552 2630 2652 2862 2881 2888 3074 3084 4955	TD 4955 KB
404	5888	Mar an		••		Huron
813	4088	• · · ·				· 49 5.5
822	4838	• . • •				2652 2303-expl Hg)
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	• ·	i we in	# l			

(Attach separate sheets as necessary)

Allegheny & Westerr	Energy Corp		_
Well Operator			
By: Ne-	X-Me-	,Vice President	
Date:	April 6	,1987	

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 in the drilling of a well."



1) Date: 2	October		<u>, 13, 86</u>
2) Operator's Well No	Rowland	Land	#8

3) API Well No. 47
State

-081-0743 County

Permit

STATE OF WEST VIRGINIA

DIVISION OF OIL & GASPARTMENT OF ENERGY, OIL AND GAS DIVISION DEPARTMENT OF ENERGY APPLICATION FOR A WELL WORK PERMIT

4) WELL TY	PE: A O	il	/ Ga	s <u>_XX</u>	/				•••	••
	B (11	f "Gas", F	roduction	<u> </u>				/ Deep		<u>X_/)</u>
5) LOCATIO	N: Ele	vation:	1002	<u>. 1 '</u>	15 17 T			k of Marsh		676
	Dis	trict: <u>M</u>	arsh	Fork	0042			Quadrangle:		
6) WELL OF					CODE:	1100		AGENTDenn		
Addres		<u>. Вох</u>			720		Address	P.O. Box 25		
		<u>rlest</u>	-		2229			Charleston	, WV 2532	3
8) OIL & GA				FIED			9) DRILLING C	71 1		
	<u>odney</u>	DITTIO	n m 150	00			Name	OHEHOWH		
Address P.O. Box 1526 Address										
<u>Sophia, WV 25921</u>										
10) PROPOS	ED WELL 1	WORK:	Drill_X		Drill			/ Stimulate	XX /	
			-				ate new formation	/		
			Other pl	hysical ch	ange in w	ell (specify)	Chalas /	<u></u>		
11) GEOLOG	ICAL TAR	GET FOR	MATION,	, <u>W</u>	er,	<u>pevontan</u>	Shales 4	·O1		
12) Estim	ated depth o	of complete	ed well,	- 2 27	392	fect	LUDA			
13) Appr	oximate trat	a depths:	Fresh,					feet.	/ NoXX	,
				expe	ec tea	weii# ls co	al being mined in th	e area? Yes	/ NOAA	/
15) CASING	AND TUBI	NG PROC	GRAM							
CASING OR TUBING TYPE	1 .	SPEC	IFICATIONS Weight		1	FOOTAGE	INTERVALS	CEMENT FILL-UP OR SACKS	PACKERS	
TOBING TITE	Size	Grade	per f1.	New I	sed	For drilling	Left in well	(Cubic feet)		
Conductor	1								Kinds	
Fresh water	9-5/8	smls		_x		435	435	300 cts	by rule 1	5.05
Coal	17	smls	23	х		2450	2450	200 cts	Sizes	,,
Intermediate	.		ļ		∦					
Production	4-1/2	smls	10.5	x		5300	5300	200-400cts		<u>req</u> uired
Tubing	 :								by rule 1	<u>5.01.</u>
Line.						·			Perforations:	
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	<u> </u>			L		. <u> </u>				
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						FFICE USE			:	
					DI	RILLING PI	ERMIT			
		47-0	81-074	. 2					October 8	19 86
Permit number		4/-0	01-07-	+				Dat	c	
This permit co	vering the w	ell operato	or and wel	location	shown be	low is evidence	of permission gran	ted to drill in accordan	ce with the pertinen	t legal re-
quirements sub	ject to the c	onditions	contained	herein and	on the re	everse hereof No	tification must be g	given to the District Oil well operator or his con	and Gas Inspector, (Refer to
o. 8) Prior to	he construct	ion of ros	ds, locatio	ns and pi	is for any	permitted work k has commenc	in addition, the v	well operator of his con	tractor snan notity t	ne proper
district oil and	gas inspecto	or 24 nour	s perore a	ctual pern	iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	k nas commene			nd conditions specifi	ed on the
	work is as d	escribed in	the Notic	e and Ap	plication,	plat, and recian	nation plan, subject	to any modifications a	na conditions specif	ed on the
reverse hereof.		Octo	ber 8	. 1988		unless we	ll work is commence	d prior to that date and	prosecuted with due	diligence.
Permit expires		<u> </u>)	1700		ae.ss we		/	•	
			√			T	<i>X</i>		•	
Bond:	Agent	: ا	(lat:	Casin	g Fe	e WPCP	` \ AyE `	Other	_	
	The	> L>	zve e	teve	390	96	1/4	~ 1 X / 2	/ 1	
<u> </u>	- , ,	· -	<u> 13</u>		198		1	7/1	_ //	
						/	1/1/.1	f-11/1-	at	_
NOTE: Keep	one copy of	f this perm	nit posted	at the dril	ling locati	ion. D	afector, Di	vision of Oil	and Gas	Tile.
								<u> </u>		File
5		See	the revers	e side of	ine APPL	ACADINE COP	1 for instructions	o the well operator.		

