

ien in min

- -

.

IV-35 (Rev 8-81)

DECEIVED FEB 05 1988

state of Mest Airginia

Department of Mines Gil und Gas Division

Date_	December 1 1987								
Operator's									
Well No. Rowland 20									
	owland Land Co								
API No	47 - 081 -0769								

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

(If "Gas," Production / Undergro LOCATION: Elevation: 1006.4 Watershed Ma	*****			11ow <u>X</u> /)
District: Marsh Fork County Ralei				ille 7.5
COMPANY Allegheny & Western Energy Corp	;			
ADDRESS P.O.Box 2587 Charleston W.Va. 25329 DESIGNATED AGENT Dennis L. Mann	Casing	Used in		Cement fill up
ADDRESS P.O.Box 2587, Charleston, W.Va., 25329	Tubing Size	Drilling	IN WEIL	cu. it.
SURFACE CWNER Rowland Land Co ADDRESS 1033 Quarrier St, Charleston, W.Va	20-16 Cond.	<u> </u>		
MINERAL RIGHTS OWNER Same	9 5/8	380	0 380	0 150 sks
ADDRESS_	8 5/8 i	1683	1683	250 sks
OIL AND GAS INSPECTOR FOR THIS WORK Rodney Dillon ADDRESS Sophia, W.Va	7			
PERMIT ISSUED 6/17/87	5 1/2	5443	5443	235 sks
DRILLING COMMENCED 8/20/87	4 1/2	3443		255 585
DRILLING COMPLETED 8/30/87	2 :			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
GEOLOGICAL TARGET FORMATION Devonian Sh	ale	Dept	h 5290	feet
Depth of completed well 5479 feet				
Water strata depth: Fresh 10 feet;	Salt 400	feet		
Coal seam depths: N/A	Is coal	being mine	ed in the	area? no
OPEN FLOW DATA	•			
Producing formation <u>Devonian Shale</u>	Pay	zone dept	h3155	feet
Gas: Initial open flow Mcf/d	Oil: Ini	tial open	flow	Bbl/d
Final open flow 474 Mcf/d	Fin	al open fl	Low	Bbl/d
Time of open flow between init	ial and fi	nal tests	4ho	urs
Static rock pressure 900 psig(surface		ent) after	24 hou	rs shut in
(If applicable due to multiple completion				
Second producing formation	Pay	zone dept	.h	feet
Gas: Initial open flow Mcf/d				
Final open flow Mcf/d				
Time of open flow between init		· •;		
Static rock pressurepsig(surface	measureme	nt) after_	hou	rs shut in
		(Contin	ue on re	verse side)

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



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

WELL LOG

FORMATION COLOR	HARD	OR	SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
		_	· ·			
sandstone & shale saltsand shale salt sand shale & sand little lime big lime shale weir shale sunbury shale sandy shale gordon grey & brown shale				0 1021 1266 1301 1694 1752 1834 2295 2353 2510 2740 2766 2954	1021 1266 1301 1694 1752 1834 2295 2353 2510 2740 2766 2954 2973	TD 5479 KB.
grey a brown bias			•		RIN @TO	1 marie an
	; i					. • • • • • • • • • • • • • • • • • • •
*.	:		, .			
;						•
	, . <u>,</u> .		. •			
	· ,		y seed The seed of the seed of			

(Attach separate sheets as necessary)

Alleghen	y & Western Ene	rgy Corp	-w - w	. Ĉ s	
Well (perator1	40	,	4.5	
By: Ne	$\sim \sim l$	//c	,Vi	ce President	
Date:	est per a	December	1 ',1	987	
\$0.0			•		

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 with, encountered in the drilling of a well."



.,,	1)	Date:_	4	May		1987
-----	----	--------	---	-----	--	------

2) Operator's Well No. Rowland Land Company #20

3) API Well No. 47 081 0769
State County Permi

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

	DIVISION	ON OF O		15			TION FOR A WEL				1	
41	WELL TY				s XXX	/						
٠,				Production		X	/ Underground s	torage		✓ Shallow	XXX/)	
5)	LOCATIO		vation: _				Watershed:		of Big Coal Ri	lver		
- ,				arsh F	ork	2	County: R	aleigh $\partial oldsymbol{eta}$		<u>itesvill</u>	e 7.5' 676	
6)	WELLOPERATOR A&W Energy Corp. CODE: 1100 7) DESIGNATED AGENT Dennis L. Mann											
•	Address Post Office Box 2587 Address Post Office Box 2587											
	Charleston, WV 25329 Charleston, WV 25329											
8)	3) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:											
-,	Name Rodney Dillon Name Milt Shafner											
	Address Post Office Box 1526 Address NA											
	Sophia, WV 25921											
10)	PROPOSE			Drill	XXX				/ Stimulate_X	ΚX/		
				Plug of	f old f	ormation	Perfor	ate new formation	L/			
							n well (specify)			··		
11)	GEOLOGI	CAL TAR	GET FOR	MATION			Devonian Sha	les 🕦				
	12) Estima	ted depth o	of complet	ed well, .		900	feet					
	13) Appro	ximate trat	a depths:	Fresh,		10	feet; salt	400	feet.			
	14) Appro	ximate coa	l seam dep	ths:			Is co	al being mined in th	e area? Yes	/ No_	XXX/	
15)	CASING A	ND TUBI	NG PRO	GRAM								
CA	SING OR	H	SPEC	IFICATIONS	· ·	1	FOOTAGE I	NTERVALS	CEMENT FILL-UP	PACK	ERS	
TU	BING TYPE	Size	Grade	Weight -	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)			
Conc	ductor			, , , , , , , , , , , , , , , , , , ,						Kinds		
	h water	9-5/8	smls	32 #	X		921	921	300 sks cts		15.05	
Coal		7	smls	23 #	X		2701	2701	200 sks	Sizes		
	mediate	 '	OMITS	123 "					1200 0.00	0.203		
		4-1/2	cm1c	10.5#	X		5900	5900	200=400 sks	Denths sat OT	as required	
	luction	4-1/2	smls	10.04			3900	2900	4200 400 3K3	by rule		
Tubi				 -						Perforations:	15.01	
Line	15	╫┈┈		 -					·		Bottom	
		 		 	-		-		 	Тор	Bottom	
		 		 -					 	 		
-		<u>. </u>	L				<u> </u>			1		
					·		<u> </u>					
			<u></u>				OFFICE USE (
							DRILLING PE	RMIT				
.	14 1	1	7-081	-0769					Jr	ne 17	19 87	
Per	mit number_		001	0,05					Dat			
TL:			all amorate	or and wal	l loontie	a chaus	s balow ie avidanca :	of marmiculan arang	ted to drill in accordan		rtinent legal re-	
ouir	ements subje	ect to the c	onditions :	contained	herein a	ind on th	e reverse hereof Not	ification must be of	iven to the District Oil	ee with the per	tor (Palar to	
o. E	B) Prior to th	e construct	ion of ros	ds, locatio	ns and	pits for a	any permitted work.	In addition, the v	iven to the District Oil well operator or his con	tractor shall no	tify the proper	
	-						work has commence					
	permitted w rse hereof.			the Notic 7, 198		application			to any modifications as			
Perr	nit expires _		June 1	,, 170			unless well	work is commence	d prior to that date and	prosecuted with	h due diligence.	
~									·	•		
1	Bond:	Agent		**	Casi	ng	Fee VPOP	ISAN	Other	<i>~</i> 1	. '	

NOTE: Keep one copy of this permit posted at the drilling location.

Director, Division of Oil and Gas File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

4050V

