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IV-35 (Rev 8-81)

RECEIVED OCT 05 1987

Sinte of Mest Airginia Pepartment of Mines Bil und Gas Pivision

Date April 6 1987
Operator's
Well No. Rowland 10
Farm Roland Land
API No. 47 - 081 0741.

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production / Undergrou	/ Wast and Storag	e Disposal e/ Deep	l/ p/ Sha	110 <u>x</u> /)
IOCATION: Elevation: 991 Watershed	Marsh Fork			
District: Marsh Fork County Rale			e Whitesvi	11e 7.5
	:			
COMPANY Allegheny & Western Energy Corp	• •			
ADDRESS P.O. Box 2587 Charleston W.Va. 25329	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT Dennis L. Mann	a ;	Drilling	in Well	Cu. ft.
ADDRESS P.O.Box 2587, Charleston, W.Va., 25329	Size			
SURFACE OWNER Rowland Land Co	20-16 Cond.			
ADDRESS 1033 Quarrier St. Charleston, W.Va	13-10"	24	0	0
MINERAL RIGHTS OWNER Same	9 5/8	376	376	375 sks
ADDRESS	8 5/8 1	570		17.1.585
OIL AND GAS INSPECTOR FOR THIS WORK Rodney P.O.Box 1526	7	1959	1959	175 sks
Dillon ADDRESS Sophia, W.Va	5 1/2		1,3,5	175 0105
PERMIT ISSUED 10/8/86	4 1/2	5567	5567	260 -1
DRILLING COMMENCED 10/30/86	3	3367	5567	260 sks
DRILLING COMPLETED 11/14/86	2 ;		<u> </u>	
IF APPLICABLE: PLUGGING OF DRY HOLE ON			<u> </u>	
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			<u> </u>
ON	user			
GEOLOGICAL TARGET FORMATION Devonian Shale		Dep	th 5300	feet
Depth of completed well 5617 feet I	Rotary X	/ Cable	e T∞ls_	
Water strata depth: Fresh 30 feet;	Salt 147	2 feet		
Coal seam depths: N/A	Is coal	being mine	ed in the	area? no
OPEN FLOW DATA	•			
Producing formation Big Lime/ Weir	Pay	zone dept	th 2187	feet
Gas: Initial open flow Mcf/d				
Final open flow 53 Mcf/d	, Fin	al open f	low	Bb1/d
Time of open flow between init:	1			
Static rock pressure 800 psig(surface		-		
(If applicable due to multiple completion				
Net Second producing formation Devonian Shale		zone dep	th <u>28</u> 34	feet
for Case Initial mon flow Mof/d				
Final open flow (300) Mcf/d				
Time of open flow between init				
Static rock pressure 800 psig(surface				
		· (Conti	zue on re	verse side:

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

2187-2346 perf w/ 10 holes frac w/ 10,000 gal gel acid + 100,000 scf n2

2454-4215 perf w/ 40 holes frac w/ 60,000# 20/50 sd + 1,116,000 scf n2

4236-5478 perf w/ 50 holes frac w/ 60,000# 20/50 sd + 1.144,000 scf n2

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 salt sand shale & sand little lime slate & shale big lime shale & siltstone upper weir shale weir (middle) shale sumbury shale sandy siltstone & shal gordon grey & brown shale marcellus shale	Le	0 1404 1472 1933 1957 2001 2370 2452 2487 2576 2602 2825 2834 3030 3043 5540	1404 1472 1933 1957 2001 2370 2452 2487 2576 2602 2825 2834 3030 3043 5540 5612	OCT 05 1987 OIVISION OF OIL & GAS DEPARTMENT OF ENERGY TD 5612 KB
8-3 A03A	No. of			
825 5084 830 5384				

(Attach separate sheets as necessary)

Allegheny & Western	Energy Corp
Well Operator	
By: Nemico	Wice 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 worl, encountered in the drilling of a well."

7/85



1)	Date: 4	<u>Oc</u>	tobe	er	 	, 12	86
2)	Operator's						

File

Well No. Rowland Land #10

3) API Well No. 47
State

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

APPLICATION FOR A WELL WORK PERMIT

	וח	IVISION	OF OIL	& GAS	<u>A</u>	PPLICAT	ON FOR A WEI	LL WORK PERMIT	<u>T</u>	
4)	WELL DE									
		B (I	f "Gas", I	Productio	n	XX	/ Underground	storage		_/ Shallow <u>XX</u> _/)
5)	LOCATIO		vation: _			13.00	_ Watershed: _		Fork of Big	
						0042		Raleigh_	Quadrangle: <u>Y</u>	Whitesville 7.567
6)						rpcode	: <u>1100 </u>		DAGENT Denni	
	Address) Boz		-	25720		Address	P.O. Box 2	
•	011 4 6 4		rlesi			25329	'	9) DRILLING C		a, WV 25329
8)	OIL & GA! NameI				ILIED				ot Available	2
	Address		O. Bo		26			Address		
	7 1441 033		phia.			rgini	a 25921	•••		
10)	PROPOSE	D WELL V		Drill	.xx	_/ Drill	deeper	/ Redrill	/ Stimulate	XX /
,	1						-	rate new formation		
							well (specify)			
11)	GEOLOGI	CAL TAR	GET FOR	MATION	1, <u> </u>	<i>l</i> eir,	<u>Devonian</u>	Shales 40		
	12) Estima	ted depth o	f complete	ed well,		300	feet			
	13) Approx					0 37		t, 4 72	feet.	
			_					oal being mined in th	ie area? Yes	/ No_XX/
15)	CASING A	ND TUBI			•	?a1=37	-			
	ASING OR UBING TYPE	1	SPEC	IFICATION Weight	IS I	. 1	FOOTAGE	INTERVALS	CEMENT FILL-UP OR SACKS	PACKERS
		Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	
	ductor	O F /		72	 	 -	1.21	1.21.	300 cts	by rule 15.05
	h water	9-5/8			1 X	 	<u>424</u> 2439	<u>424</u> 2439	200cts	1
Coa		 	sml	<u> </u>	<u>x</u>	 	24)9	<u> </u>	20000	Sizes
	rmediate	4-1/	sml	10.	5 x		5300	5300	200-400 c1	Spepths set Or as requi
Tub		4-17	- 1311111	1 1 .	γ <u>Α</u>	1 -1		1-22-		by rule 15.01
Line				<u> </u>	1					Perforations:
	······································				T					Top Bottom
								<u></u>		
							OFFICE USE			
						I	RILLING PE	ERMIT		
Peri	mit number_		47-0	81-074	41					October 8 19 86
									Da	le
Thi	s permit cove	ring the w	ell operato	or and we	ll locati	on shown	below is evidence	of permission gran	ted to drill in accordan	nce with the pertinent legal re-
qui	ements subje	ct to the co	onditions o	ontained	herein	and on the	reverse hereof No	tification must be g	given to the District Oil	and Gas Inspector, (Refer to stractor shall notify the proper
io. I disti	5) Prior to the rict oil and a	e construct as inspecto	ton of rox r 24 hours	ds, locali before a	ons and ictual pe	pits for an emitted we	y permitted work ork has commence	ed.)	well operator of his cor	mactor shan nomy the proper
									to any modifications a	and conditions specified on the
	rse hereof.	Of K 15 &5 CC	scribed in	the Hon	cc and r	application.	, plat, and recall	inition plant subject	to any mountaine	
Peri	mit expires _	<u>. </u>	Octo	<u>ber_8</u>	, 198	8	unless wel	ll work is commence	d prior to that date and	prosecuted with due diligence.
_					<u> </u>					
Γ,	Bond:	Agent	. p	lat:	Casi	ng F	ee WPCP	V SEE V	Other	
'		7	. ~	المراجعة	ä		. 1	S. E.		•
L		Mr.	7 4	1207	81		06 <u> </u>	1,007	19/101	
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							, ,		144 1	
NO	TE: Keep o		this	ف-ممسروا	ساديد			rector Di	vision of 011	and Gas File

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

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