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DEPARTMENT OF ENERGY
OIL AND GAS



Slute of West Alegini

Beparlment of Alines Gil und Gas Bivision

Date January 10, 1986 Operator's	
Operator's	
Well No. Crumrine #1	
Farm Crumrine	
API No. 47 - 095 -	1123

WELL OPERATOR'S REPORT OF

Drilling, Fracturing and/or stimulating, or physical chance

CATION: Elevation: 740' Natershed N				
District: Ellsworth County	Tyler	Quadrangle	e Shir	ley 7.5'
			•	•
MPANY Drilling Appalachian Corporation (DAC)	•			• 1
DRESS Route 1, Box 51A, Cairo, WV 26337	Casing	Used in	Left	Cement
SIGNATED AGENT Kenneth Mason	Tubing	Drilling	in Well	fill up Cu. ft.
DRESS Rt. 1, Box 51A, Cairo, WV 26337	Size	}		249
RFACE OWNER Charles & John Crumrine	20-16	,		
DRESS Middlebourne, WV 26149	Cond.	,	•	
NERAL RIGHTS OWNER Charles & John Crumrine	13-10"			
DRESS Middlebourne, WV 26149	9 5/8	2501	2501	T
L AND GAS INSPECTOR FOR THIS WORK Robert Lowt	8 5/8 her -	350'	350'	To surfac
ADDRESS Middlebourne, WV 26149	7			
RMIT ISSUED November 11, 1985	5 1/2			
ILLING COMMENCED November 19, 1985	4 1/2	1915'	1915'	171 cu. ft
ILLING COMPLETED November 21, 1985	3)		
APPLICABLE: PLUGGING OF DRY HOLE ON	2			
VIINUOUS PROGRESSION FROM DRILLING OR	Liners			
WORKING. VERBAL PERMISSION OBTAINED	used			
		<u></u>		
DLOGICAL TARGET FORMATION Big Injun	· · · · · · · · · · · · · · · · · · ·		h 2200	feet
	Rotary X		Tools	
Water strata depth: Fresh 105 feet;				•
Coal seam depths: None	Is coal	being mine	d in the	area?
EN FLOW DATA		\$; 		
Producing formation Injun	Pay	zone dept	h 1815-18	55 feet
Gas: Initial open flow 800 Mcf/d	Oil: Ini	tial open	flow	Bbl/d
Final open flow 200 Mcf/d	Fin	al open fl	.cw0	Bb1/d
Time of open flow between init	ial and fi	nal tests_	_4hot	irs
Static rock pressure 550 psig (surface	e measurem	ent) after	72 hou	rs shut in
(If applicable due to multiple completion	<u>/</u>			
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	•		•	
		_		100

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

First stage:

Water frac - fourteen perforations, from 1815' to 1854' HCL Acid 15% 20/40 Sand

Second and third stage:

9 shots:

1479' to 1696'

20/40 Sand

Hydrochloric Acid 15%

WELL LOG

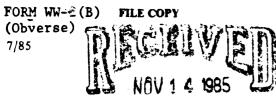
FORMATION COLOR HARD OR SOE	TOP FEET	BOITOM FEET	REMARKS Including indication of all fresand salt water, coal, oil and ga
Soil	0'	29'	
Intermittent Sandstone and Shal	le 30'	1199'	
Second Salt Sand	1200'	1254'	Coarse calcite and minerals No shows
Third Salt Sand	1255' ,,	1332'	Calcite Advantage of the Control of
Shales	1333'	1463'	A Property of the Company of the Com
Maxon Sandstone	1464'	1490'	Gas Show
Shales	1491'	1559'	The state of the s
Big Lime	1560'	1680'	क राज्यको स्ट्रा संस्था । १००० ।
Shales .	1681'	1687'	
Big Injun Ger a Po	1688'	1864'	Gas, Oil, & Salt Water Shows
		1 17 g	TD 1928
and the second s	1869 · · · · · · · · · · · · · · · · · · ·	St. Junk	A find food of option
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• The second			基础 点。2007年
tew to the second of the seco			Committee to the second of the

(Attach separate sheets as necessary) : supervisions ;

	to the first party street with	Electropes Certification	
	DRILLING APPALAC	HIAN CORPORATION	
Wel	1 Operator	,	
Rv:	2 1 1 1 11	ja at sain säidesti.	• •
Date:	Kenneth R. Mason February 7, 1986		
-	المستحد والمراقع والم		

Note: Regulation 2.02(i) provides as follows:

(Obverse) 7/85





1) Date:	Nov. 11		19. 85			
	2) Operator's Well No. Crumrine #1					
3) API Well	No. 47	- 95	-1123			
	State	County	Permit			

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

) WELL T									
LOCATIO	B (If "Gas",	Productio 740'	n	_ <u>x</u>	/ Underground	storage	Deep	_/ ShallowX/
LOCATI		evation: _ strict:			311		Middle Islar		
WELLO	ID PERATOR	Drilli	ng Ann	elach	ian MAF	County:	Tyler	Quadrangle: _ DAGENT <u>Kenn</u>	Shirley
Addre	LKAIOK,	Route	1. Box	51.3	igit Cott	V		DAGENT <u>Kenn</u>	eth Mason
7100.0			WV 2				Address	Rout	
OIL & G	AS INSPEC						0) DDILLING C		VV 26337
Name	Robert	t Lowt	her bourne				9) DRILLING Consumer C.	T. Drilling Co.	
Addre			irginia				Address	<u>Marietta,</u>	OF.
PROPOS	ED WELL	WORK:			/ Drill	deeper	/ Redrill	/ Stimulate	х /
							rate new formation	<u> </u>	
				_					
	ICAL TAR				•	371			
	ated depth					feet			
	oximate tra	_					t,		
	oximate coa	•		No	one	ls co	oal being mined in the	e area? Yes	/ NoX
CASING	AND TUB	ING PRO	GRAM						
ASING OR JBING TYPE		SPE	CIFICATION	8	li li	FOOTAGE	INTERVALS	CEMENT FILL-UP	PACYERS
	Stre	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
ductor	11 3/4	H-40	42#	X		30'	0'		Kinds
h water									
1									Sizes /
rmediate	8 5/8	J-55	20#	X		350'	350'	100 sacks	15 hury
duction	$4\frac{1}{2}$	J-55	101#	X		2200'	2200'	85 sacks	Depths set
ing							1 2200		equired by
ers								The same of	consonailns:
							1	/	
									Top Bottom
		*	·•					11	
				-					
					O	FFICE USE	ONLY		
						RILLING PE		·	
	47	005 1	100		υ.	deeling i	22414111		
mit number.	47-	<u>095-1</u>	123					Nov	ember 18 1989
								Date	:
i permit cov rements subj	ering the w	ell operate	or and well	locatio	n shown be	clow is evidence	of permission grante	ed to drill in accordance	ce with the pertinent legal
B) Prior to the	e construct	ion of ros	ds. locatio	ns and a	oits for any	nermitted work	tification must be given in addition, the w	ven to the District Oil s	e with the pertinent lega and Gas Inspector, (Refer ractor shall notify the pro
ict oil and	gas inspecto	or 24 hour	s before ac	tual per	mitted wor	k has commence	ed.)	Speciator or mis com	ractor snan notity the pro
permitted v	ork is as de	escribed in	the Notice	and A	pplication,	plat, and reclam	ation plan, subject t	o any modifications an	d conditions specified on
ise nereor.					•		F, onesjeet t	all	a conditions specified on
nit expires	NOV	ember	18,	1987		unless wel	l work is commenced	prior to that date and p	prosecuted with due diliger
Bond:	Agont		1100	C					
	Agent	. 1	lat:	Casi	Tal.		S&E	Other	
	RB		1/1	DD	11/6-	29 M	UVYHI	$\Lambda \mid \Lambda$	
					7		7 /	// // //	
							1/10/- h	11/1	_
TE: Keep o	one copy of	this perm	it posted a	t the dr	illing location	on.	irector	ision of Oil	and Coo
						// 11		ision of Oil	ond I'on

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