

A7-109-1111 Ossued 9/13/89 Expres 9/13/91

FORM WW-2B

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	STATE OF WEST VIRGINIA
	DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
	WELL WORK PERMIT APPLICATION
1)	Well Operator: Ashland Exploration, Inc. 2750 (4) 454
	W. M. Ritter Lumber Co.
2)	Operator's Well Number: 230, Serial No. 118081 3) Elevation: 1526.1
4)	Well type: (a) Oil_/ or $Gas X$ /
	(b) If Gas: Production $\frac{X}{X}$ / Underground Storage $\frac{X}{X}$ / Shallow $\frac{X}{X}$ /
5)	Proposed Target Formation(s): Devonian Shale
6)	Proposed Total Depth:5846'KB feet
7)	Approximate fresh water strata depths: 412 431 1126, 487
8)	Approximate salt water depths: 1606'KB
9)	Approximate coal seam depths: None Worked 749-759 77-90
10)	Does land contain coal seams tributary to active mine? Yes / No X /
11)	Proposed Well Work: If Il & Stimulate MM Well
12)	CASING AND THRING DECCEAM

CASING AND TUBING PROGRAM

S	PECIFICAT	IONS	FOOTAGE IN	TERVALS	CEMENT
Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
16	LS	42.0	30	30 🥎	CTS
					3XSP18-113
					38CSP18-112-
8 5/8	J55	24.0	1656	1656	CTS
5 1/2	J55	15.5	5846	5846	38C3R18-111 As Needed
1.9	J55	2.76	_	5796	Siphon
					CENVE
	Size 16 8 5/8 5 1/2	Size Grade 16 LS 8 5/8 J55 5 1/2 J55	Size Grade per ft. 16 LS 42.0 8 5/8 J55 24.0 5 1/2 J55 15.5	Size Grade Per ft. For drilling 16 LS 42.0 30 8 5/8 J55 24.0 1656 5 1/2 J55 15.5 5846	Size Grade Weight per ft. For drilling Left in well 16 LS 42.0 30 30 8 5/8 J55 24.0 1656 1656 5 1/2 J55 15.5 5846 5846 1.9 J55 2.76 - 5796

Coal						
Intermediate	8 5/8	J55	24.0	1656	1656	CTS
Production	5 1/2	J55	15.5	5846	5846	As Needed
Tubing	1.9	J55	2.76		5796	Siphon
Liners					<u> </u>	
PACKERS : Kir	***************************************		_			ECETA E
	ths set				44	AUG 25 1909
رد	/_	W		and Gas Use	DE	IVISION OF OIL & G PARTMENT OF ENE
_ Fee(s) [paid: U	Well	Work Permit	11 11	lamation Fun	id WPCP
Plat (# WW-9	WW PAR	-2B (1)	Bond Stank	er the	Agent

Page 1 of Form WW2-A (09/87)
File Copy



1) Date: August 24, 1989

Operator's well number

W.M. Ritter Lumber Co. #230, Serial #118081 API Well No: 47 - 109 - 1111

State - County - Permit

DIVISION OF OIL & GAS DEPARTIMENT OF ENERGY

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

2)

3)

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)	Surface Owner(s) to be served:	5) (a) Coal Operator:
	(a) Name _Georgia-Pacific Corp.	Name None
	Address 133 Peachtree	Address
	Atlanta, GA 30303	
	(b) Name	(b) Coal Owner(s) with Declaration
	Address	Name <u>Georgia-Pacific Corp.</u>
		Address 133 Peachtree
	(c) Name	Atlanta, GA 30303
	Address	
		Name
		NUUL 622
6)	Inspector Rodney Dillon	(c) Coal Lessee with Declaration
0,	Address P.O. Box 1526	• •
		Name <u>Island Creek Corp.</u>
	Sophia, WV 25921 Telephone (304)-683-3989	Address P.O. Box 840
	Telebliotie (204) - <u>683-3989</u>	Holden, WV 25625 ≈
	TO THE PERSON(S) NAMED AB	ሰህድ ጥልዩድ አሰጥ፣ሮድ ጥዛልጥ •
		0 12 12 11 11 11 11 11 11 11 11 11 11 11
	Included is the lease or leases or	other continuing contract or
	racts by which I hold the right to	
	Included is the information requir	
Cont	ion 9(d) of the Code of Wort Wirein	ed by Chapter 22b, Article 1,
sect.	ion 8(d) of the Code of West Virgin	la (see page 2)
49 9		hapter 22B of the West Virginia Code
I na	ve served copies of this notice and	application, a location plat, and
accor	mpanying documents pages 1 through	2 on the above named parties, by:
	Personal Service (Affidavit a	
	X Certified Mail (Postmarked po	stal receipt attached)
	Publication (Notice of Public	ation attached)
	The same has now now now also seen done one does not not some the same now one one one	500 MB No 100 MB
	I have read and understand Chapter	22B and 38 CSR 11-18, and I agree
to th	ne terms and conditions of any perm	
		t I have personally examined and am
fami:	liar with the information submitted	
atta	chments, and that based on my inqui	ry of those individuals immediately
respo	onsible for obtaining the informati	on. I believe that the information
is t	rue, accurate, and complete.	
		ant penalties for submitting false
info	rmation, including the possibility	
		Ashland Exploration Inc.
	HACBY: J. T. Mell:	
	Its: Manager	
	Address P.O. Bo	
		1, KY 41114
C,, h	Telephone (600	
SuDS(cribed and sworn before me this 24t	h day of August, 1989
	Thick's W. Monto	Wakana Dakita
Mar C	ommission expires November 23, 1990	Notary Public
my C	ommission expires <u>November 23, 1990</u>	



State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

DEPARTMENT OF ENERGY Well Operator's Report of Well Work

Farm name: GEORGIA-PACIFIC CORP.

Operator Well No.: 230-S-118081

LOCATION: Elevation: 1526.10 Quadrangle: MALLORY

District: CLEAR FORK

County: WYOMING

Latitude: 11070 Feet South of 37 Deg. 40Min. 0 Sec.

Longitude 90 Feet West of 81 Deg. 45 Min. 0 Sec.

Company: ASHLAND EXPLORATION, INC.

P. O. BOX 391

ASHLAND, KY 41114-0000

Agent: FORREST BURKETT

Inspector: RODNEY G. DILLON

Permit Issued: 09/13/89
Well work Commenced: 09/21/89

Well work Completed: 01/10/90

Verbal Plugging

Permission granted on:

Rotary X Cable Ric
Total Depth (feet) 6012' Fresh water depths (ft) 412', 431',

1126', 487'

Salt water depths (ft) Approximate

depth 1606'

Is coal being mined in area (Y/N)? N Coal Depths (ft): Not noted while drlg.

Casing	Used in	Left	Cement Fill Up	
Tubing	Drilling	in Well	Cu. Ft.	
Size			Continue sans	
16"	25'	25'	17.7	
8-5/8"	1667'	1667 '	649	
5-1/2"	 5972'	5972'	1178	
1.9"		4898'		

OPEN FLOW DATA

Devonian Shale

4900-4925

Pay zone depth (ft) 3648-3670 Producing formation Berea Gas: Initial open flow 0 MCF/d Oil: Initial open flow Bbl/d
Final open flow 450 MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests 3 Hours Static rock Pressure 495# psig (surface pressure) after 72 Hours

Second producing formation___

Pay zone depth (ft)___

Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests

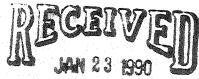
Static rock Pressure_____psig (surface pressure) after ____

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: ASHLAND EXPLORATION, INC.

By: James & Stadius James L. Stephens, Jr. Eng. Tech. Date: 1-18-90

Formation or Rock Type	Top	Base	
Sand & Shales	<u>Top</u> 0	1268	
Lee Sands	1268	1653	
Sand & Shales	1653	1863	aski 1997 i
Ravenscliff	1863	1912	
Shale	1912	1989	
Avis LS	1989	2024	
Shale	2024	2060	
Stray Maxton	2060	2152	
Sand & Shale	2152	2548	
L. Maxton	2548	2587	
Shale	2587	2629	
L. Lime	2629	2711	
Pencil Cave	2711	2736	
Big Lime	2736	3066	
Shale	3066	3178	1000
Weir Section	3178	3284	(V) S
Shale	3284	3618	In ()
Coffee Chale	3618	3638	
Berea	3638	3684	
Devonian Shale	3684	5986	T 13 414
Onondaga	5986	TD	DIVI: DEPAI



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

DTD: 6012 LTD: 6002

Well Treatment

Perf U. Devonian Shale 25H/4900-4925. 75 Quality foam frac using 1000 gal 8% Fe inh acid, 1000 gal 25% treated methanol, 135,000# 20/40 sand & 1,013,000 scf N₂ @ 28,000 scf/min. BD @ 1900#, ATP 2250# @ 50 bpm foam rate, MTP @ 2500#, ISIP 1360# & TF 610 bbls.

Perf Berea Sands 45H/3648-3670. 75 Quality foam frac using 500 gal 15% inh Fe acid, 1000 gal 25% treated methanol, 60,000# 20/40 sand & 372,000 scf N $_2$ 0 10,300 scf/min. BD 0 1629#, ATP 1472# 0 25 bpm foam rate, MTP 4461#, ISIP 4461, $_2$ 15 min 3975# & TF 335 bbls. Well screened off on flush.

UD 3684 H 4850 J 5500 A 5600