

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1:15,243
 PROVEN SOURCE OF ELEVATION T.B.M. @ Intersection
& W.Va. Rtes. 9/4 & 10/7.
 Elev. = 1321.0

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.
 (SIGNED) Ronald L. Smith
 R.P.E. _____ L.L.S. 150

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE July 30 19 90
 OPERATOR'S WELL NO. W.M. Ritter Lumber Co.
 API WELL NO. Well No. 262, S.N. 130931
47 - 109 - 1158
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1471.06 WATERSHED Guyandotte River
 DISTRICT Center 3 COUNTY Wyoming
 QUADRANGLE Pineville 415 C

SURFACE OWNER Georgia - Pacific Corporation ACREAGE 40,000 +
 OIL & GAS ROYALTY OWNER Georgia - Pacific Corporation LEASE ACREAGE 67,244.09
 LEASE NO. 4157

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Berea ESTIMATED DEPTH 3,651' KB
 WELL OPERATOR Ashland Exploration, Inc. DESIGNATED AGENT Forrest Burkett
 ADDRESS P.O. Box 391 ADDRESS P.O. Box 379
Ashland, KY. 41114 Brenton, W.V. 24818

SEP 14 1990

DEEP well 6-6 Baileysville (272)

FORM VW-6
 H.T. HALL 48673

COUNTY NAME
 PERMIT

RECEIVED
Department of Energy

AUG 15 90

Permitting
Oil and Gas Section

109-1158
Issued 8/31/90

Page 1 of 1

Expires 8/31/92

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

WELL WORK PERMIT APPLICATION

- 1) Well Operator: ⁰⁰⁴³ Ashland Exploration, Inc. 2750 (3) 548
W.M. Ritter Lumber Co.
- 2) Operator's Well Number: 262, Serial #130931 3) Elevation: 1471.1
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): Berea 395
- 6) Proposed Total Depth: 3651'KB feet
- 7) Approximate fresh water strata depths: -
- 8) Approximate salt water depths: 1251'KB
- 9) Approximate coal seam depths: Sewell - Worked out 336'
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work:
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	16	LS	42.0	30	30	CTS
Fresh Water						
Coal						
Intermediate	8 5/8	J55	24.0	1301	1301	CTS
Production	4 1/2	J55	10.5	3651	3651	As Needed
Tubing	2 3/8	J55	4.7	-	3601	Siphon
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP

Plat WW-9 WW-2B Bond Security Agent

(Type)

11044

506961
#22

RECEIVED
Division of Energy
AUG 15 90
Permitting
Oil and Gas Section

- 1) Date: August 14, 1990
- 2) Operator's well number
W.M. Ritter Lumber Co. #262, Serial #130931
- 3) API Well No: 47 - 109 - 1158
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name Georgia-Pacific
Address 133 Peachtree
Atlanta, GA 30303
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name None
Address _____
 - (b) Coal Owner(s) with Declaration
Name Georgia-Pacific Corp.
Address 133 Peachtree
Atlanta, GA 30303
Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name National Mines Corp.
Address P.O. Box 960
Pineville, WV 24874
- 6) Inspector Rodney Dillon
Address P.O. Box 1526
Sophia, WV 25921
Telephone (304)-683-3989

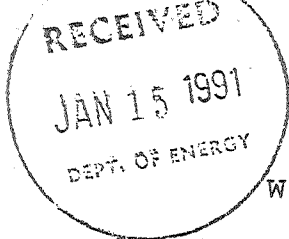
TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
 Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)
 I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 2 on the above named parties, by:
 Personal Service (Affidavit attached)
 Certified Mail (Postmarked postal receipt attached)
 Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.
 I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.
 Well Operator Ashland Exploration, Inc.
 By: J. T. Mellinger
 Its: Manager Eastern Region
 Address P.O. Box 391
Ashland, KY 41114
 Telephone 606-329-5450

Subscribed and sworn before me this 14th day of August, 1990
Vicki W. Sants Notary Public
 My commission expires November 23, 1990



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

Well Operator's Report of Well Work

Farm name: GEORGIA PACIFIC Operator Well No.: 262 S# 130931

LOCATION: Elevation: 1471.10 Quadrangle: PINEVILLE

District: CENTER County: WYOMING
Latitude: 9795 Feet South of 37 Deg. 37Min. 30 Sec.
Longitude 9805 Feet West of 81 Deg. 35 Min. 0 Sec.

Company: ASHLAND EXPLORATION, INC.
P.O. BOX 391, A1-6
ASHLAND, KY 41114-0391

Agent: FORREST BURKETT

Inspector: RODNEY G. DILLON
Permit Issued: 08/31/90
Well work Commenced: 11/7/90
Well work Completed: 12/17/90
Verbal Plugging _____
Permission granted on: _____
Rotary x Cable _____ Rig _____
Total Depth (feet) 6149'
Fresh water depths (ft) 2" stream @ 480'
~~4 5" stream @ 795'~~
Salt water depths (ft) approximate _____
1251'
Is coal being mined in area (Y/N)? N
Coal Depths (ft): 394-399 431-436

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	34'	34'	9.4
8 5/8"	1291'	1291'	767
5 1/2"	6108'	6108'	869
1.9" @ 5900'	KB w/ADL-1 Pkr @ 3640'		
1.9" @ 3575'			

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 4672-6010
 Gas: Initial open flow 25/84 MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 939/1412 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 3 Hours
 Static rock Pressure 920# psig (surface pressure) after 72 Hours
 Berea 3572-3579
 Second producing formation Ravenscliff Pay zone depth (ft) 1513-1590
 Gas: Initial open flow 59 MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 473 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 3 Hours
 Static rock Pressure 340# psig (surface pressure) after 72 Hours

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 L. Stephens James L. Stephens, Engr. Tech.
Date: January 9, 1991

JAN 18 1991

<u>FORMATION OR ROCK TYPE</u>	<u>TOP</u>	<u>BASE</u>
Sand & Shales (Base Lee Sands)	0	1226
Pennington Formation	1226	2391
Ravenscliff 1507-1595		
Avis LS 1603-1643		
U. Maxton 1963-1988		
L. Maxton 2280-2364		
Little Lime	2391	2515
Big Lime	2515	2962
Borden	2962	3522
Lower Weir 3160-3183		
Sunbury Shale	3522	3539
Berea	3539	3580
Devonian Shale	3580	6123
Onondaga LS	6123	TD
DTD 6149		
LTD 6138		

UD 3580
 LH 4630
 J 5180
 A 5330
 ZH 5580

WELL TREATMENT

Perf L. Dev. Shale 24H/5569-6010. ^{Rh} N2 frac using 500 gal 8 1/2% inh fe acid, 1,000,055 SCF N2 @ 75,000 SCF/min. BD @ 2240#, ATP 3650#, MTP 3980#, ISIP 2800#, 15 min 1800#.

Perf U. Dev. Shale 23H/4672-5224. ^{LH} N2 frac using 1,000,005 SCF N2 @ 86,000 SCF/min. BD @ 2310#, ATP 3000#, MTP 3060#, ISIP 2300#, 15 min 1730#.

Perf Berea 25H/3572-3579. 75 Q foam frac using 350 gal 18% inh Fe acid, 78,000# 20/40 sand, 415,000 SCF N2 @ 10,000 SCF/min. BD @ 1420#, ATP 1150# @ 25 bpm form rate, MTP 1420#, ISIP 1000#, 10 min 800# & TF 276 bbls.

Perf Ravenscliff 16H/1513-1590. Breakdown and ball out using 750 gal 15% fe acid and 30 (1.3 sp. gr.) perf balls. BD @ 2880#, ATP 1430#, @ 15 bpm, MTP 4200# with a complete ballout. 75 quality foam frac using 40,000# 20/40 sand and 406,000 SCF N2 @ 15,000 SCF/min. BD @ 2518#, ATP 2476# @ 30 bpm foam rate, MTP 2534#, ISIP 1886#, 15 min 1589# & TF 209 bbls.

11099