

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1: 42,871.92
PROVEN SOURCE OF ELEVATION USC & GS BM "B 178". Elev. = 1279.75

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 A. Castle
R.P.E. _____ L.L.S. 150

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE January 10, 19 90
OPERATOR'S WELL NO. W.M. Ritter Lumber Co
API WELL NO. No. 227, Ser. #120181

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ STATE 47 COUNTY 109 PERMIT 1129
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION: ELEVATION 1993.97' WATER SHED Pea Branch of the Guyandotte River
DISTRICT Center COUNTY Wyoming
QUADRANGLE Pineville

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

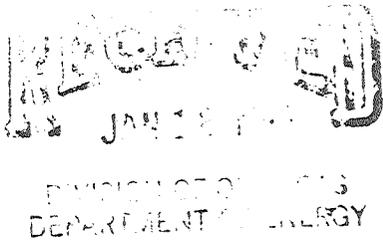
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION Dev. Shale ESTIMATED DEPTH 6764' KB
WELL OPERATOR Ashland Exploration, Inc. DESIGNATED AGENT Forrest Burkett
ADDRESS P.O. Box 391, Ashland, KY, 41114 ADDRESS P.O. Box 379, Brenton, WV, 24818

FEB 09 1990

DEEP WELL 6-6 Pineville (750)

COUNTY NAME
PERMIT



Date: January 16, 1990
Operator's well number
W.M. Ritter Lumber Co. #227, Serial #120181
API Well No: 47 - 109 - 1129
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 Corp.
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 Island Creek Corp.
Address P.O. Box 840
Holden, WV 25625
- 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
 X 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)
- X Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

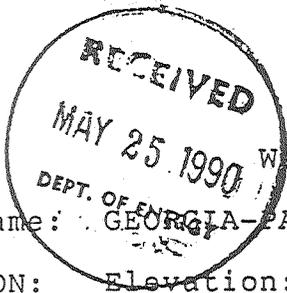
I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and 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 16th day of January, 1990

Vicki W. Nosta 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 CORP. Operator Well No.: 227-S-120181

LOCATION: Elevation: 1993.97 Quadrangle: PINEVILLE

District: CENTER County: WYOMING
Latitude: 11700 Feet South of 37 Deg. 37Min. 30 Sec.
Longitude 3780 Feet West of 81 Deg. 32 Min. 30 Sec.

Company: ASHLAND EXPLORATION, INC.
P. O. BOX 391
ASHLAND, KY 41114-0000

Agent: FORREST BURKETT

Inspector: RODNEY G. DILLON
Permit Issued: 02/05/90
Well work Commenced: 02/22/90
Well work Completed: 05/10/90
Verbal Plugging
Permission granted on: _____
Rotary x Cable _____ Rig
Total Depth (feet) 6683
Fresh water depths (ft) 1177'

Salt water depths (ft) Approximate 1340' KB

Is coal being mined in area (Y/N)? N
Coal Depths (ft): Open Mine 364'-368'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	30'	30'	9.5
11 3/4"	403'	403'	265
8 5/8"	1417'	1417'	413
5 1/2"	6589'	6589'	1230
1.9" @ 327' KB w/ADL-1 PKR @ 3182' KB			
1.9" @ 3138' KB			

OPEN FLOW DATA

Devonian Shale 5212-6414
 Producing formation Gordon Pay zone depth (ft) 3958-3984
 Gas: Initial open flow 73/204 MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 266/1248 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 3 Hours
 Static rock Pressure 260# psig (surface pressure) after 72 Hours

Big Lime 3112-3127
 Second producing formation Ravenscliff Pay zone depth (ft) 1667-1684
 Gas: Initial open flow 133 MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 982 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 3 Hours
 Static rock Pressure 270# 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 Engineer-Tech.
Date: May 21, 1990

MAY 20 1990

FORMATION ~~OR~~ ROCK TYPE

	TOP	BASE
Sand & Shales	0	808
Lower Lee Sand	808	1321
Shales	1321	1424
Princeton	1424	1482
Shales	1482	1618
Ravenscliff	1618	1708
Shales	1708	1727
Avis Limestone	1727	1771
Sand & Shale	1771	2232
Middle Maxton	2232	2270
Sand & Shale	2270	2478
Lower Maxton	2478	2534
Shales	2534	2588
Little Lime	2588	2676
Pencil Cave	2676	2715
Big Lime	2715	3160
Sand & Shales	3160	3418
Lower Weir	3418	3448
Shales	3448	3795
Coffee Shale	3795	3812
Berea	3812	3830
Devonian Shale	3830	6667
Gordon Sands	3942	3977
Onondaga LS	6667	TD

EST.
 UDU 3830
 LH 4980
 J 5630
 A 5730
 RH 6030

DTD 6683 LTD 6676

WELL TREATMENT

Perforate L. Devonian Shale 25H/5976-6414. ^{Rh} N₂ frac using 1000 gal 15% Fe inh acid 1,000,038 SCF N₂ @ 85,000 SCF/MIN. BD @ 3230#, ATP 3800#, MTP 3876#, ISIP 3067#, & 15 MIN 1834#.

Perforate U. Devonian Shale 25H/5212-5600. ^{LH} N₂ frac using 1000 gal 7 1/2% inh Fe acid 1,000,140 SCF N₂ @ 95,000 SCF/MIN. BD @ 2755#, ATP 3218#, MTP 3456# & 15 MIN 1650#.

Perforate Gordon Sands 30H/3958-3984. Dump 500 gal 15% inh Fe acid, 1000 gal 25% treated Methanol, 75 Quality foam frac the Gordon using 50,000# 20/40 sand & 341,000 SCF N₂ @ 13,200 SCF/MIN. BD @ 900#, ATP 997# @ 30 bpm foam rate, MTP 1200#, ISIP 844#, 15 MIN 748# & TF 309 bbls.

Perforate Big Lime 31H/3112-3127. Acidize Big Lime using 2000 gal 14 1/2% inh Fe acid and 3000 gal 28% inh Fe acid @ 6 1/2 Bpm rate. BD @ 650#, ATP @ 150#, MTP 650#, ISIP 0# & TF 205 bbls. SIW.

Perforate Ravenscliff 25H/1667-1684. 75 Quality foam frac using 500 gal 18% inh Fe acid, 40,000# 20/40 sand & 512,000 SCF N₂ @ 18,000 SCF/MIN. BD @ 1870#, ATP 1900# @ 30 BPM foam rate, MTP 1940#, ISIP 1630#, 15 MIN 1390# & TF 267 bbls.

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