

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

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1:22,800  
 PROVEN SOURCE OF ELEVATION USC & GS BM "K-176" Elev. = 1079.30

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. Castle

R.P.E. \_\_\_\_\_ L.L.S. 150

PLACE SEAL HERE

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE January 22, 19 90  
 OPERATOR'S WELL NO. W.M. Ritter Lumber Co  
 API WELL NO. No. 255, S.N. 120311

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X

LOCATION: ELEVATION 2167.95 WATERSHED Wildcat Creek of Little Huff Creek  
 DISTRICT Huff Creek 5 COUNTY Wyoming  
 QUADRANGLE Gilbert 15 SE

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 Devonian Shale ESTIMATED DEPTH 6802' 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 16 1990

DEEP WELL 3-3 unnamed (B) (300)

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

- 1) Well Operator: Ashland Exploration, Inc. 2750 (5) 363  
W. M. Ritter Lumber Company
- 2) Operator's Well Number: 255, Serial No. 120311 3) Elevation: 2167.95'
- 4) Well type: (a) Oil   / or Gas X/  
(b) If Gas: Production X/ Underground Storage   /  
Deep   / Shallow X/
- 5) Proposed Target Formation(s): Devonian Shale
- 6) Proposed Total Depth: 6802'KB feet
- 7) Approximate fresh water strata depths:
- 8) Approximate salt water depths: 2358'KB
- 9) Approximate coal seam depths: Not Operated - Solid Coal
- 10) Does land contain coal seams tributary to active mine? Yes   / No X/
- 11) Proposed Well Work: Drill & Stimulate New Well
- 12)

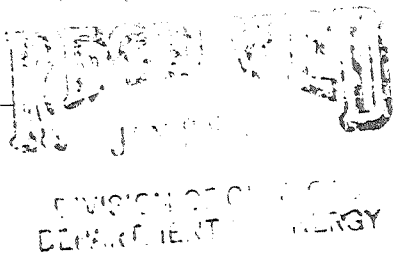
CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	16	LS	42.0	30	30	CTS
Fresh Water						
Coal						
Intermediate	8 5/8	J55	24.0	2408	2408	CTS
Production	5 1/2	J55	15.5	6802	6802	As Needed
Tubing	1.9	J55	2.76	-	6752	Siphon
Liners						

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

506814  
 Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond 50 Surety  Agent  
(Type)



1) Date: January 26, 1990  
2) Operator's well number  
W.M. Ritter Lumber Co. #255, Serial #120311  
3) API Well No: 47 - 109 - 1131  
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- |   |   |
|---|---|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Georgia-Pacific Corp.</u><br/>Address <u>133 Peachtree</u><br/><u>Atlanta, GA 30303</u></p> <p>(b) Name _____<br/>Address _____</p> <p>(c) Name _____<br/>Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>None</u><br/>Address _____</p> <p>(b) Coal Owner(s) with Declaration<br/>Name <u>Georgia-Pacific Corp.</u><br/>Address <u>133 Peachtree</u><br/><u>Atlanta, GA 30303</u></p> <p>Name _____<br/>Address _____</p> <p>(c) Coal Lessee with Declaration<br/>Name <u>Virginia Crews Coal Co.</u><br/>Address <u>P.O. Box 727</u><br/><u>Laeger, WV 24844-0727</u></p> |
| <p>6) Inspector <u>Rodney Dillon</u><br/>Address <u>P.O. Box 1526</u><br/><u>Sophia, WV 25921</u><br/>Telephone (304)- <u>683-3989</u></p>  |   |

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.

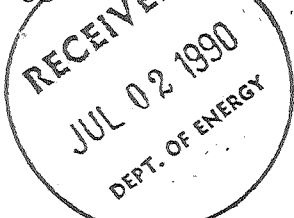
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, 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 26th 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.: 255-S-120311

LOCATION: Elevation: 2167.95 Quadrangle: GILBERT

District: HUFF CREEK County: WYOMING
Latitude: 9890 Feet South of 37 Deg. 35Min. 0 Sec.
Longitude 3405 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: 02/14/90
Well work Commenced: 03/20/90
Well work Completed: 06/15/90
Verbal Plugging
Permission granted on:
Rotary X Cable Rig
Total Depth (feet) 6723'
Fresh water depths (ft) -

Table with 4 columns: Casing & Tubing Size, Used in Drilling, Left in Well, Cement Fill Up Cu. Ft. Rows include 16", 8 5/8", 5 1/2", 1.9" @ 4561'KB w/ADL-1 PKR @ 4591'KB, and 1.9" @ 4537'KB.

Salt water depths (ft) Approximate 2358', 2" Stream @ 1450'KB
Is coal being mined in area (Y/N)? N
Coal Depths (ft): Not Noted During Drl'g

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 5602-6588
Gas: Initial open flow 37 MCF/d Oil: Initial open flow Bbl/d
Final open flow 438/1192 MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock Pressure 710# psig (surface pressure) after 72 Hours

Second producing formation Berea Pay zone depth (ft) 4506-4520
Gas: Initial open flow 0 MCF/d Oil: Initial open flow Bbl/d
Final open flow 246 MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock Pressure 700# 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, Jr. ENG-TECH
Date: June 27, 1990

JUL 6 1990

FORMATION OR ROCK TYPE

TOP

BASE

Sand & Shales	0'	1934'
Lower Lee Sand	1934'	2296'
Sand & Shales	2296'	2386'
Princeton	2386'	2466'
Shale	2466'	2541'
Ravenscliff	2541'	2669'
Avis LS	2669'	2710'
Shale	2710'	2777'
Stray Maxton	2777'	2819'
Sand & Shale	2819'	2976'
Upper Maxton	2976'	3026'
Sand & Shales	3026'	3086'
Middle Maxton	3086'	3126'
Sand & Shales	3126'	3317'
Lower Maxton	3317'	3348'
Shale	3348'	3395'
Little Lime	3395'	3500'
Pencil Cave	3500'	3521'
Big Lime	3521'	3913'
Shales	3913'	4028'
Weir Section	4028'	4129'
Shales	4129'	4463'
Coffee Shale	4463'	4486'
Berea	4486'	4530'
Devonian Shale	4530'	6697'
Onondaga LS	6697'	TD

EST:  
 UD 4530  
 LH 5580 ? ?  
 J 6130 0  
 A 6280  
 Qh 6530

DTD: 6723'KB

LTD: 6712'KB

WELL TREATMENT

Perf L. Devonian Shale 25H/6350-6588. N<sub>2</sub> frac using 750 gal 7 1/2% Fe inh acid, 1,000,009 SCF N<sub>2</sub> @ 45,000 SCF/min. BD @ 4000#, ATP 3700#, MTP 4000#, ISIP 3300# & 15 min 2500#.

Perf U. Devonian Shale 24H/5602-6016. N<sub>2</sub> frac using 1000 gal 8% Fe inh acid, 1,000,120 SCF N<sub>2</sub> @ 95,000 SCF/min. BD @ 2360#, ATP 3350#, MTP 3440#, ISIP 2000# & 15 min 1390#.

Perf Berea 25H/4506-4520. 75 Quality foam frac using 500 gal 16% inh Fe acid 61,000# 20/40 sand & 455,000 SCF N<sub>2</sub> @ 12000 SCF/min. BD @ 1290#, ATP 1300# @ 25 BPM foam rate, MTP 1450#, ISIP 1150#, 15 min 1030# & TF 256 bbls.

6723 TD  
 4530 Berea  
 2593 -expl. Frac

10138