

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 = 2500  
 PROVEN SOURCE OF ELEVATION U.S.G.S. - B.M. J-176  
LINE 114 ELEV. 1070.841

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) Kenneth D. Bias  
 R.P.E. \_\_\_\_\_ L.L.S. 837-SU



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

DATE JULY 16, 1997  
 OPERATOR'S WELL NO. W.M. RITTER LUMBER CO. NO. 268 S.N. 135681  
 API WELL NO. 47-109-1217  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
 LOCATION: ELEVATION 1,701.30' WATER SHED LITTLE HUFF CREEK  
 DISTRICT HUFF CREEK 5 COUNTY WYOMING  
 QUADRANGLE GILBERT 7 1/2' 415 58

SURFACE OWNER GEORGIA PACIFIC CORP. ACREAGE 40,000 +  
 OIL & GAS ROYALTY OWNER GEORGIA-PACIFIC CORP. 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 6270' KB  
 WELL OPERATOR ASHLAND EXPLORATION INC. DESIGNATED AGENT FORREST BURKETT  
 ADDRESS P.O. BOX 391 ASHLAND KY. 41114 ADDRESS P.O. BOX 379 BRETON, WV. 24818

AUG 30 1997

COUNTY NAME PERMIT

FORM WW-8

RECEIVED

AUG 09 1991

109-1217  
Issued 08/26/91

Page 1 of 1

Expires 08/26/93

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

Well Operator: <sup>6043</sup> Ashland Exploration, Inc. 2750 (5) 363

- 1) Operator's Well Number: W. M. Ritter Lumber Co. No. 268 3) Elevation: 1701.30  
S.N. 135681
- 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<sup>441</sup>
- 6) Proposed Total Depth: 6,270' KB feet
- 7) Approximate fresh water strata depths: 711' KB (map WV-12) 628', 654'
- 8) Approximate salt water depths: 1186' KB (map WV-12) 1068'
- 9) Approximate coal seam depths: No seams operated - solid 715'-717'
- 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

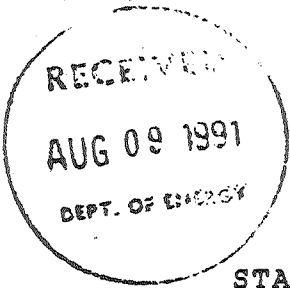
TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	16"	L5	36.9	30	30	CTS
Fresh Water						38CSR18/11.3
Coal						38CSR18/11.2
Intermediate	8 5/8"	J55	24.0	1870	1870	CTS
Production	5 1/2"	J55	15.5	6270	6270	As Needed
Tubing	1.9"	J55	2.76	----	6250	38CSR18/11.1 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 Surety Blanket Agent

506292  
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- 1) Date: August 7, 1991
- 2) Operator's well number W. M. Ritter Lumber Co. #268, Serial #135681
- 3) API Well No: 47 - 109 - 1217  
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 Jerry Crouse  
Wyoming, WV 24898  
 (b) Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 (c) Name \_\_\_\_\_  
 Address \_\_\_\_\_

5) (a) Coal Operator:  
 Name None  
 Address \_\_\_\_\_  
 (b) Coal Owner(s) with Declaration  
 Name Georgia-Pacific Corp.  
 Address Jerry Crouse  
Wyoming, WV 24898  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_

6) Inspector Rodney Dillon  
 Address P. O. Box 131  
Bradley, WV 25818  
 Telephone (304) - 877-2912

(c) Coal Lessee with Declaration  
 Name Virginia Crews Coal Co.  
 Address Kevin Davis  
P. O. Box 727  
Iaeger, WV 24844-0727

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 \_\_\_\_\_ 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: W. Mark Parks  
 Its: Operations Manager  
 Address P.O. Box 391  
Ashland, KY 41114  
 Telephone 606-329-5989

Subscribed and sworn before me this 7th day of August, 1991

Suzette S. Hubbard  
 My commission expires April 27, 1993 Notary Public

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

Reviewed TMG  
Recorded \_\_\_\_\_

Well Operator's Report of Well Work

Farm name: GEORGIA PACIFIC Operator Well No.: RITTER 268

LOCATION: Elevation: 1701.30 Quadrangle: GILBERT

District: HUFF CREEK County: WYOMING  
Latitude: 10750 Feet South of 37 Deg. 35Min. 0 Sec.  
Longitude 8300 Feet West of 81 Deg. 45 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: 08/26/91  
Well work Commenced: 10/27/91  
Well work Completed: 1/23/92  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 6279  
Fresh water depths (ft) None noted  
(Map WV-12) 628, 654, 711  
Salt water depths (ft) Wet @ 994'  
(Map WV-12) 1068, 1186  
Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 149-155, 204-207

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	46'	46'	11.8
8 5/8"	1861'	1861'	695
5 1/2"	6254'	6254'	917
2 3/8" @	6049' KB		

OPEN FLOW DATA

Producing formation Devonian Shale/Berea Pay zone depth (ft) 4023-6157  
 Gas: Initial open flow 0 MCF/d Oil: Initial open flow -0- Bbl/c  
 Final open flow 848 MCF/d Final open flow -0- Bbl/c  
 Time of open flow between initial and final tests 3 Hours  
 Static rock Pressure 500 psig (surface pressure) after 72 Hours

Second producing formation -0- Pay zone depth (ft) -0-  
 Gas: Initial open flow -0- MCF/d Oil: Initial open flow -0- Bbl/c  
 Final open flow -0- MCF/d Final open flow -0- Bbl/c  
 Time of open flow between initial and final tests -0- Hours  
 Static rock Pressure -0- psig (surface pressure) after -0- 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, Eng. Tech.  
Date: 1-31-92

<u>Formation on Rock Type</u>	<u>TOP</u>	<u>BASE</u>
Sand and Shale (Base Lee Fm)	0	1837
Pennington formation	1837	2939
Ravenscliff 2132-2219		
Avis Lime 2219-2266		
Stray Maxton 2352-2360		
U. Maxton 2532-2613		
M. Maxton 2654-2678		
L. Maxton 2857-2883		
Little Lime	2939	3056
Big Lime	3056	3431
Borden formation	3431	3990
Weir 3544-3650		
Sunbury Shale	3990	4013
Berea	4013	4058
Devonian Shale	4058	6262
Onondaga Ls	6262	TD
DTD 6279		
LTD 6274		

8 5/8" cemented did not circulate on primary job but was grouted to the surface the same day with 143 sx of CIA cmt.

### Well Treatment

Perf Rhinestreet 16H/5904-6157. N<sub>2</sub> frac using 500 gal 7 1/2% fe acid, 803,000 scf N<sub>2</sub> @ 53,217 scf/min. BD 4395#, ATP 4044#, MTP 4400# and ISIP 3113#.

Perf Huron 20H/5334-5513. N<sub>2</sub> frac using 500 gal 7 1/2% fe acid, 805,000 scf N<sub>2</sub> @ 97,091 scf/min. BD 4084#, ATP 3901#, MTP 4116# and ISIP 2823#.

Perf M. Shale 20H/4758-5154. N<sub>2</sub> frac using 500 gal 7 1/2% fe acid, 806,000 scf N<sub>2</sub> @ 106,148 scf/min. BD 2989#, ATP 3030#, MTP 3212# and ISIP 1844#.

Perf U. Shale 20H/4303-4580. N<sub>2</sub> frac using 500 gal 7 1/2% fe acid, 805,000 scf N<sub>2</sub> @ 106,969 scf/min. BD 2771#, ATP 3242#, MTP 4179# and ISIP 2034#.

Perf Berea 15H/4023-4047. 75 quality ramp frac using 20 #/M gal. gel system, 250 gal 22% fe acid, 85,900# 20/40 sand and 478,000 scf N<sub>2</sub> @ 9500 scf/min. BD @ 1850#, ATP 1450# @ 20 BPM foam rate, MTP 2064#, ISIP 1275.