



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

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1,000'  
 MINIMUM DEGREE OF ACCURACY 1: 54, 157  
 PROVEN SOURCE OF ELEVATION Ritter Well No. 219

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

PLACE SEAL HERE

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



DATE August 16, 19 90  
 OPERATOR'S WELL NO. W.M. Ritter Lumber Co.  
 API WELL NO. Well No. 260, S.N. 130911  
47 - 109 - 1162

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1,925.97 WATERSHED Bee Fork of Turkey Creek of Guyandotte River  
 DISTRICT Center COUNTY Wyoming  
 QUADRANGLE Matheny Pineville 15' 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 4,066' KB  
 WELL OPERATOR Ashland Exploration, Inc. DESIGNATED AGENT Forrest Burkett  
 ADDRESS P.O. Box 391 Ashland, KY. 41114 ADDRESS P.O. Box 379 Brenton, W.V. 24818

OCT 1 1990

DEEP WELL 6-6 Baileysville (272)

FORM WW-6  
 R.T. HALL 48673

COUNTY NAME  
 PERMIT

RECEIVED  
Division of Energy

109-1162

Issued 9/18/90

Page 1 of 1

Expires 9/18/92

NO 29 90

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

Permitting  
Oil and Gas SEWELL WELL WORK PERMIT APPLICATION

- 1) Well Operator: Ashland Exploration, Inc. 2750 (3) 463  
W.M. Ritter Lumber Co.
- 2) Operator's Well Number: 260, Serial #130911 3) Elevation: 1926.0
- 4) Well type: (a) Oil   / or Gas X/
- (b) If Gas: Production X/ Underground Storage   /  
Deep   / Shallow X/
- 5) Proposed Target Formation(s): Berea
- 6) Proposed Total Depth: 4066'KB feet
- 7) Approximate fresh water strata depths: - 926'
- 8) Approximate salt water depths: 1746'KB 1946' - 1957'
- 9) Approximate coal seam depths: Sewell - 875'±, Solid, Not Operated
- 10) Does land contain coal seams tributary to active mine? Yes   / No X/ 1165' - 1170'
- 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  |                |       |                   |              |        | 3805818-11.3<br>3805818-11.2 |
| Coal         |                |       |                   |              |        |                              |
| Intermediate | 8 5/8          | J55   | 24.0              | 1796         | 1796   | CTS                          |
| Production   | 4 1/2          | J55   | 10.5              | 4066         | 4066   | 3805818-11.1<br>As Needed    |
| Tubing       | 2 3/8          | J55   | 4.7               | -            | 4016   | 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 Servita Blompet  Agent

506975  
24

1) Date: August 28, 1990  
2) Operator's well number  
W.M. Ritter Lumber Co. #260, Serial #130911  
3) API Well No: 47 - 109 - 1162  
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

REC-  
Division of  
AUG 29 90  
Permitting  
Oil and Gas Section

- 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 \_\_\_\_\_  
Address \_\_\_\_\_
- (b) Coal Owner(s) with Declaration  
Name Georgia-Pacific Corp.  
Address 133 Peachtree  
Atlanta, GA 30303
- Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Rodney Dillon  
Address P.O. Box 1526  
Sophia, WV 25921  
Telephone (304)-683-3989
- (c) Coal Lessee with Declaration  
Name Island Creek Coal Co. (Sewell Seam)  
Address P.O. Box 840, Holden, WV 25626  
Name: Robinson-Phillips Coal Co. (Red Ash Seam)  
P.O. Drawer G, Welch, WV 24801 & Above

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 28th day of August, 1990

Nicki W. Sonta Notary Public  
My commission expires November 23, 1990

RECEIVED  
of Energy

API # 47-109-01162

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

FEB 11 91

Well Operator's Report of Well Work

Farm name: GEORGIA PACIFIC CORP Operator Well No.: 260 S#130911

LOCATION: Elevation: 1926.00 Quadrangle: MATHENY

District: CENTER County: WYOMING  
Latitude: 10360 Feet South of 37 Deg. 40Min. 0 Sec.  
Longitude 2005 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: 09/18/90  
Well work Commenced: 11/30/90  
Well work Completed: 1/25/91  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 6520'  
Fresh water depths (ft) 144  
approximate 926'  
Salt water depths (ft) approximate  
1857'

| Casing & Tubing Size | Used in Drilling                   | Left in Well | Cement Fill Up Cu. Ft. |
|----------------------|------------------------------------|--------------|------------------------|
| 16"                  | 38'                                | 38'          | 11.8                   |
| 8 5/8"               | 1818                               | 1818         | 736                    |
| 5 1/2"               | 6523                               | 6523         | 861                    |
| 2 3/8"               | w/ADL-1 Pkr @ 4021' KB Set @ 6232' |              |                        |

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): Not noted while drl'g

OPEN FLOW DATA

Devonian Shale 4994-6332  
 Producing formation Gordon Pay zone depth (ft) 4106-4149  
 Gas: Initial open flow 84 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 726 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests 3 Hours  
 Static rock Pressure 600 psig (surface pressure) after 72 Hours

Second producing formation Berea Pay zone depth (ft) 3940-3959  
 Gas: Initial open flow 0 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 1200 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests 3 Hours  
 Static rock Pressure 610# 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: 2/7/91

| <u>FORMATION OR ROCK TYPE</u> | <u>TOP</u> | <u>BASE</u> |
|-------------------------------|------------|-------------|
| Sand & Shale (Base Lee Sand)  | 0          | 1681        |
| Pennington Formation          | 1681       | 2813        |
| Ravenscliff Sand 1952-2035    |            |             |
| Avis LS. 2047-2088            |            |             |
| Stray Maxton 2168-2216        |            |             |
| M. Maxton 2443-2511           |            |             |
| L. Maxton 2722-2757           |            |             |
| Little Lime                   | 2813       | 2902        |
| Big Lime                      | 2902       | 3343        |
| Borden                        | 3343       | 3914        |
| Weir Section 3554-3575        |            |             |
| Sunbury Shale                 | 3914       | 3932        |
| Berea                         | 3932       | 3961        |
| Devonian Shale                | 3961       | 6504        |
| Gordon 4092-4116              |            |             |
| Onondaga LS                   | 6504       | TD          |
| DTD 6520                      |            |             |
| LTD 6524                      |            |             |

OD 3961  
 LH 5000  
 J 5550  
 A 5650  
 Rh 6000

WELL TREATMENT

Perf L. Dev. Shale 24H/5891-6332. N2 frac using 750 gal 15% Inh acid,  
 1,000,500 SCF N2 @ 76,000 SCF/min. BD @ 2775#, ATP 4530#, MTP 4900#,  
 ISIP 3361# & 15 min 2036#.

Perf U. Dev. Shale 23H/4994-5612. N2 frac using 750 gal 15% Inh Fe acid,  
 1,000,007 SCF N2 @ 98,000 SCF/min w/25 perf balls. BD @ 2639#, ATP 3704#,  
 MTP 3929#, ISIP 2300#, 15 min 1695#.

Perf Gordon 10H/4106-4149. 75 Q foam frac using 500 gal 15% Inh Fe acid,  
 512,000 SCF N2 @ 21,790 SCF/min & 60,000# 20/40 sand. BD @ 2150#, ATP 2475#  
 @ 45 bpm foam rate, MTP 2945#, ISIP 875#, 15 min 500# & TF 324 bbls.

Perf Berea 18H/3940-3959 - 75 Q foam frac using 250 gal 20% Inh Fe acid,  
 514,000 SCF N2 @ 13,000 SCF/min and 61,000# 20/40 sand. BD @ 1400#, ATP 1350#,  
 @ 25 bpm foam rate, MTP 1450#, ISIP 1130#, 15 min 880#, TF 257 bbls.

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