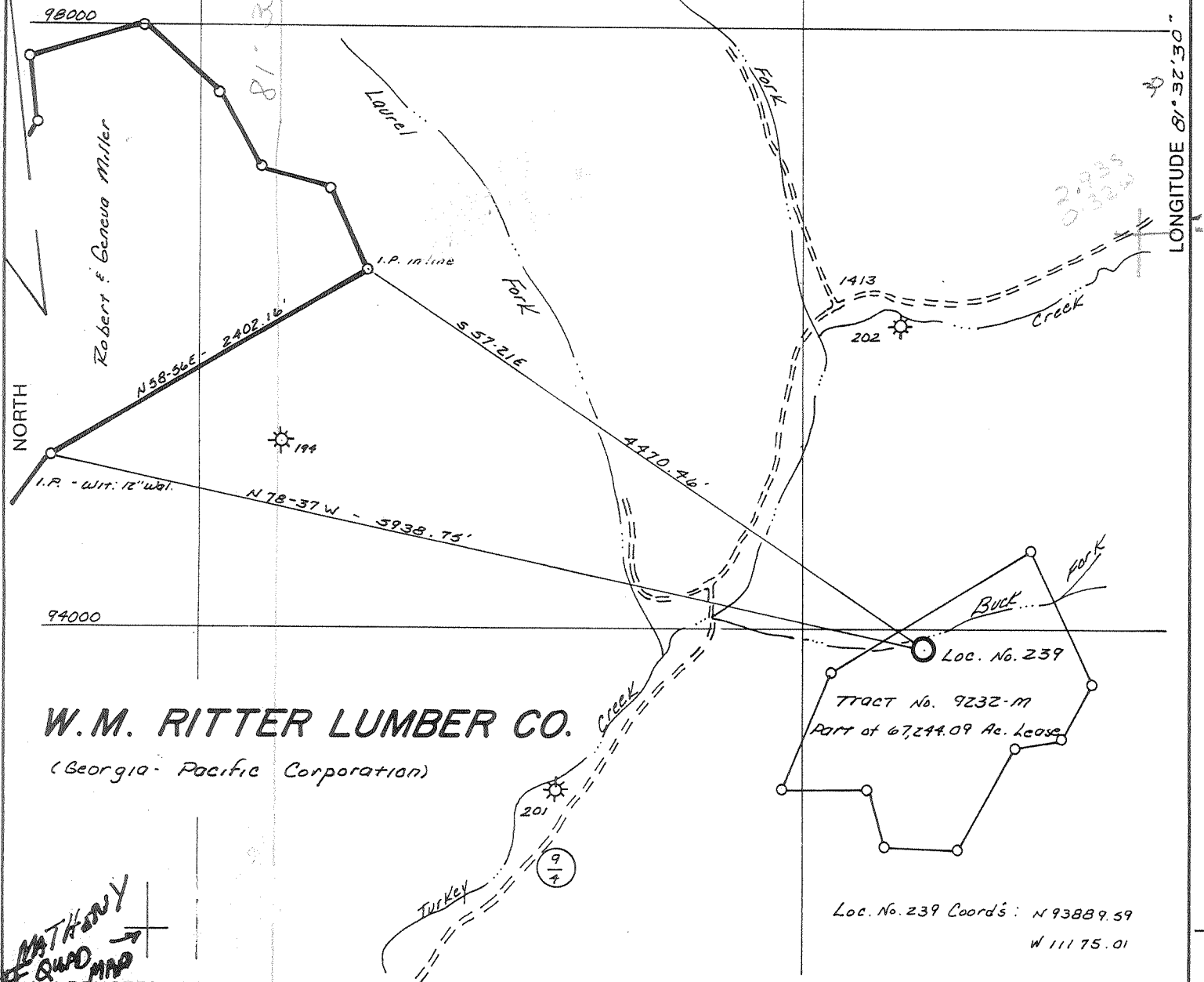


Pineville 7.5  
300 South  
16000

Game 3/15/89

LATITUDE 37°40'00"  
15" Poplar 37°37'30"  
Pineville

588-10 W - 133.3'  
15" Poplar  
Well References Scale: 1"=100'



**W.M. RITTER LUMBER CO.**  
(Georgia-Pacific Corporation)

Loc. No. 239 Coord's: N 93889.59  
W 11175.01

MATHENY  
OFF QUAD MAP  
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 64-54  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1"=1000'  
 MINIMUM DEGREE OF ACCURACY 1 IN 10000  
 PROVEN SOURCE OF ELEVATION Crossroads Elevation at intersection of Bee Fork and Turkey Cr. Elev. = 1413

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) Rick G. Jaffe  
 R.P.E. \_\_\_\_\_ L.L.S. W.V. Temp. Permt # 011 KY L.S. # 2823

PLACE SEAL HERE

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



DATE March 6, 1989  
OPERATOR'S WELL NO. 239, Serial # 117641  
API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
STATE COUNTY PERMIT 47 - 109 - 1083

LOCATION: ELEVATION 1413.5 WATER SHED. Buck Fork of Turkey Creek  
DISTRICT Center 3 Pineville COUNTY Wyoming  
QUADRANGLE Pineville & Matheny 300 South of MATHENY 37°37'30" LATITUDE

SURFACE OWNER Bobby R. & Anna R. Lynn ACREAGE 1.58  
OIL & GAS ROYALTY OWNER Georgia-Pacific Corp. LEASE ACREAGE 67244.09  
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 6018 KB  
WELL OPERATOR Ashland Exploration, Inc. DESIGNATED AGENT Forrest Burker  
ADDRESS P.O. Box 391 43 ADDRESS P.O. Box 379  
Ashland, Kentucky 4114 Bretton, West Virginia 24818

MAR 31 1989

DEEP well 6-6 Baileysville (272)

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

2750, 3, 548

- 1) Well Operator: Ashland Exploration, Inc.  
W. M. Ritter Lumber Co.
- 2) Operator's Well Number: 239, Serial #117641 3) Elevation: 1443.5
- 4) Well type: (a) Oil  / or Gas  /  
(b) If Gas: Production  / Underground Storage  /  
Deep  / Shallow  /
- 5) Proposed Target Formation(s): Devonian Shale
- 6) Proposed Total Depth: 6018'KB feet
- 7) Approximate fresh water strata depths: 428'KB, 178', 120', 135'
- 8) Approximate salt water depths: 1219'KB  
Sewell 262' - Mined Out
- 9) Approximate coal seam depths: Poca #3 844' - No Mines
- 10) Does land contain coal seams tributary to active mine? Yes  / No  /
- 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	H40	48.0	30	30	CTS
Fresh Water						30CSR18-11.3 30CSR18-11.2.2
Coal	11 3/4	H40	42.0	312	312	CTS
Intermediate	8 5/8	J55	24.0	1269	1269	CTS
Production	5 1/2	J55	15.5	6018	6018	← 30CSR18-11.1 As Needed
Tubing	1.9	CW55	2.76	-	5900	Siphon
Liners						

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

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For Division of Oil and Gas Use Only  
DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

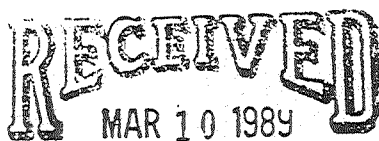
506523

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

Plat  WW-9  WW-2B  Bond 50 Blanket  Agent

(Type)

342



1) Date: March 6, 1989  
2) Operator's well number  
W. M. Ritter Lumber Co. #239, Serial #117641  
3) API Well No: 47 - 109 - 1083  
State - County - Permit

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY  
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 Bobby & Anna Lynn  
Address General Delivery  
Brenton, WV 24818  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Tim Bennett  
Address 525 Tiller Street  
Logan, WV 25601  
Telephone (304)- 792-7075

Lessee  
5) (a) Coal ~~Operator~~: (Poca #3 Seam)  
Name Consol Land Development Company  
Address P.O. Box 1289  
Bluefield, VA 24605  
(b) Coal Owner(s) with Declaration  
Name Georgia-Pacific Corp.  
Address 133 Peachtree  
Atlanta, GA 30303  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration (Sewell Seam)  
Name Island Creek Corporation  
Address P.O. Box 840  
Holden, WV 25625

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 6th day of March, 19 89

Vicki W. Santa Notary Public  
My commission expires November 23, 1990

WR-35

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OCT 25 1989

27-Mar-89  
API # 47-109-01083

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

DIVISION OF OIL & GAS Well Operator's Report of Well Work  
DEPARTMENT OF ENERGY

Farm name: LYNN, BOBBY & ANNA Operator Well No.: 239-S-117641

LOCATION: Elevation: 1443.50 Quadrangle: PINEVILLE

District: CENTER County: WYOMING  
Latitude: 15300 Feet South of 37 Deg. 40Min. 0 Sec.  
Longitude 13750 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: 03/27/89  
Well work Commenced: 6/13/89  
Well work Completed: 10/2/89  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary  Cable \_\_\_\_\_ Rig  
Total Depth (feet) 6089  
Fresh water depths (ft) 120, 135, 178'  
Salt water depths (ft) 1219' KB

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): Not noted during drilling

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	45'	45'	17.7
8 5/8"	1148'	1148'	531
5 1/2"	6055'	6055'	1204
1.9" @ 5135' KB w/ADL-1 Pkr @ 3492' KB			
1.9" @ 3482' KB			

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 4908-5829  
Gas: Initial open flow 0 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 552/857 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 3 Hours  
Static rock Pressure 670 psig (surface pressure) after 72 Hours  
Berea 3474-3481  
Weir 2926-2952  
Second producing formation Big Lime Pay zone depth (ft) 2500-2505  
Gas: Initial open flow 188 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 285 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 3 Hours  
Static rock Pressure 320 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: J. L. Stephens J. L. Stephens, Engineering Tec  
Date: October 23, 1989

OCT 24 1989

<u>FORMATION</u>	<u>TOP</u>	<u>BASE</u>
Sand & Shale	0	657
Lee Sand	657	1139
Shale	1139	1228
Princeton	1228	1278
Shale	1278	1422
Ravenscliff	1422	1505
Avis LS	1505	1545
Sand & Shale	1545	2186
Lower Maxton	2186	2232
Shale	2232	2295
Little Lime	2295	2370
Pencil Cave	2370	2417
Big Lime	2417	2897
Shale	2897	3074
Lower Weir	3074	3107
Shale	3107	3435
Coffee Shale	3435	3451
Berea	3451	3483
Devonian Shale	3483	6076
Onondaga LS	6076	TD

DTD 6089  
LTD 6091

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DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

WELL TREATMENT

<sup>A Rh</sup>  
Perf L. Dev. Shale 25H/5470-5829 - 75 Q Foam frac using 20#/1000 gal gel system, 1000 gal 7 1/2% inh Fe acid, 1000 gal 25% Methanol, 99,800# 20/40 sand & 971,000 SCF N<sub>2</sub> @ 33,480 SCF/min. BD @ 3833#, ATP 3615# @ 50 bpm foam rate, MTP 3833#, ISIP 2165#, 15 min 1606# & TF 413 bbls.

<sup>H</sup>  
Perf U. Dev. Shale 25H/4908-5097 - 75 Q Foam Frac using 1000 gal 7 1/2% HCl, 1000 gal 25% treated Methanol, 90,400# 20/40 sand & 855,000 SCF N<sub>2</sub> @ 29,000 SCF/min. BD @ 2140#, ATP 2450# @ 50 bpm foam rate, MTP 2570#, ISIP 1650#, 15 min 1440# & TF 410 bbls.

<sup>Ber</sup>  
Perf Berea 28H/3474-3481 - 75 Q foam frac using 500 gal 15% inh Fe acid, 1000 gal treated Methanol, 41,200# 20/40 sand & 312,000 SCF N<sub>2</sub> @ 8000 SCF/min. BD @ 1080#, ATP 1150# @ 20 bpm foam rate, MTP 1230#, ISIP 990#, 15 min 860# & TF 247 bbls.

<sup>Weir</sup>  
Perf Weir 25H/2926-2952. 75 Q Foam Frac using 500 gal 15% inh Fe HCl acid, 40,000# 20/40 sand & 189,000 SCF N<sub>2</sub> @ 21,000 SCF/min. BD @ 1234#, ATP 1328# @ 14.5 bpm, MTP 4200#, ISIP 4150#, 15 min 3548# & TF 196 bbls. Well screened out on flush.

<sup>B.L</sup>  
Perf Big Lime 20H/2500-2505 - Acidize using 2000 gal 15% inh Fe acid, 1000 gal 28% inh Fe acid & 70 bbls. treated wtr. BD @ 1000#, ATP 400# @ 4 bpm, MTP 1000#, ISIP 200#, 5 min 0# & TF 142 bbls.

1150  
650  
100  
300

EST

UD 3483  
H 4650  
J 5300  
A 5400  
Rh 5700

2688