

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:45,372
 PROVEN SOURCE OF ELEVATION U.S.C.E. BM
"SR-17L" Elev. = 1151.07

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) *Donald L. East*

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

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE January 23, 19 90
 OPERATOR'S WELL NO. W.M. Ritter Lumber Co.
 API WELL NO. No. 258, S.N. 120341

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

LOCATION: ELEVATION 1219.64 WATER SHED Trace Fork of Horse Creek
 DISTRICT Baileysville COUNTY Wyoming
 QUADRANGLE Baileysville Pineville SW

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 5865' 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
66 Baileysville (272) MAR 22 1990

COUNTY NAME
 PERMIT

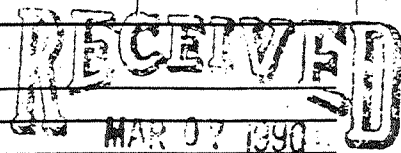
STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: ⁰⁰⁴³ Ashland Exploration, Inc. 2750 (1) 228
W.M. Ritter Lumber Co.
- 2) Operator's Well Number: 258, Serial #120341 3) Elevation: 1219.64
- 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 44
- 6) Proposed Total Depth: 5865'KB feet
- 7) Approximate fresh water strata depths: - 148', 228', 100', 789'
- 8) Approximate salt water depths: 1320'KB
- 9) Approximate coal seam depths: None Operated - Solid 828'-831'
- 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	1370	1370	CTS
Production	5 1/2	J55	15.5	5865	5865	As Needed
Tubing	1.9	J55	2.76	-	5815	Siphon
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____



For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

506838
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Security Agent
 (Type)

RECEIVED
MAR 07 1990
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1)
2)
3)

Date: March 5, 1990
Operator's well number
W.M. Ritter Lumber Co. #258, Serial #120341
API Well No: 47 - 109 - 1132
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>
Address <u>133 Peachtree</u>
<u>Atlanta, GA 30303</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>None</u>
Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>Georgia-Pacific Corp.</u>
Address <u>133 Peachtree</u>
<u>Atlanta, GA 30303</u></p> <p>Name _____
Address _____</p> |
| <p>6) Inspector <u>Rodney Dillon</u>
Address <u>P.O. Box 1526</u>
<u>Sophia, WV 25921</u>
Telephone <u>(304)-683-3989</u></p> | <p>(c) Coal Lessee with Declaration</p> <p>Name <u>Virginia Crews Coal Co.</u>
Address <u>P.O. Box 727</u>
<u>Iaeger, WV 24844-0727</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 5th day of March, 1990
Vicki W. Spota 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 CO. Operator Well No.: 258-S-120341

LOCATION: Elevation: 1219.64 Quadrangle: BAILEYSVILLE

District: BAILEYSVILLE County: WYOMING
Latitude: 2010 Feet South of 37 Deg. 35Min. 0 Sec.
Longitude 3175 Feet West of 81 Deg. 42 Min. 30 Sec.

Company: ASHLAND EXPLORATION, INC.

P.O. BOX 391, A1-6
ASHLAND, KY 41114-0391

Agent: FORREST BURKETT

Inspector: RODNEY G. DILLON

Permit Issued: 03/23/90

Well work Commenced: 4/12/90

Well work Completed: 7/12/90

Verbal Plugging

Permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 5819'

Fresh water depths (ft) 11 1/2" stream @ 92
& 320' and approximately 789'

Salt water depths (ft) 1320' KB

Is coal being mined in area (Y/N)? N

Coal Depths (ft): Not noted while drilling

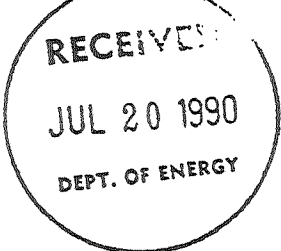
Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	30'	30'	11.8
8 5/8"	1358'	1358'	590
5 1/2"	5780'	5780'	1289
1.9" @ 5263' KB w/ADL-1 Pkr @ 1718'			
1.9" @ 1654' KB			

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 4612-5701
Gas: Initial open flow 66 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 1192/1393 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock Pressure 845 psig (surface pressure) after 72 Hours

Second producing formation Ravenscliff Pay zone depth (ft) 1642-1660
Gas: Initial open flow 0 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 201 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock Pressure 370 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: 7/17/90

JUL 27 1990

<u>FORMATION OR ROCK TYPE</u>	<u>TOP</u>	<u>BASE</u>
Sand & Shales	0	928
Lower Lee Sand	928	1316
Sand & Shales	1316	1430
Princeton Section	1430	1474
Shales	1474	1597
Ravenscliff	1597	1666
Avis LS	1666	1707
Shales	1707	1756
Stray Maxton	1756	1826
Shales	1826	1942
Upper Maxton	1942	1997
Shale	1997	2060
Middle Maxton	2060	2144
Sand & Shales	2144	2314
Lower Maxton	2314	2347
Shales	2347	2397
Little Lime	2397	2477
Pencil Cave	2477	2507
Big Lime	2507	2929
Shales	2929	3042
Weir Section	3042	3150
Shale	3150	3474
Coffee Shale	3474	3495
Berea	3495	3543
Devonian Shale	3543	5798
Onondaga LS	5798	TD

LTD 5817
 DTD 5819

WELL TREATMENT

Perf L. Devonian Shale 25H/5364-5701. N2 frac using 750 gal 16% Fe Inh. Fe acid, 1,000,006 SCF N2 @ 99,000 SCF/min. BD @ 2600#, ATP 3350#, ISIP 2300# & 15 min 1970#.

Perf U. Devonian Shale 25H/4612-5048. N2 frac using 1000 gal 7 1/2% Fe Inh. acid, 1,000,025 SCF N2 @ 90,000 SCF/min. BD @ 3800#, ATP 3150#, ISIP 2100# & 15 min 1970#.

Perf Berea Sands 45H/3512-3535. 75 Quality foam frac using 500 gal 15% Fe Inh. acid, 1000 gal 25% treated Methanol, 70,000# 20/40 sand & 411,000 SCF N2 @ 11,000 SCF/min. BD @ 1450#, ATP 1550# @ 25 bpm foam rate, MTP 1650#, ISIP 1480# & TF 344 bbls. Berea was wet. The perforations were squeezed off after testing.

Perf Ravenscliff Sand 35H/1642-1660. 75 Quality foam frac using 500 gal 14% Fe Inh. acid, 60,000# 20/40 sand, and 680,000 SCF N2 @ 18,000 SCF/min. BD @ 3440#, ATP 2850# @ 25 bpm foam rate, MTP 3440#, ISIP 2140#, 15 min 2000# & TF 309 bbls.

10305