



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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1: 83,658.41
 PROVEN SOURCE OF ELEVATION USC & GS BM "R-44". Elev. = 1369.71

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 January 15, 19 90
 OPERATOR'S WELL NO. W.M. Ritter Lumber Co.
 API WELL NO. No. 252, S.N. 120281

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1923.43' WATER SHED Cow Hollow of Marsh Fork
 DISTRICT Center COUNTY Wyoming
 QUADRANGLE Matheny Pineville, SC
 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 6588' 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 6-6 Pineville (250)

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

- 1) Well Operator: Ashland Exploration, Inc. 2750 (3) 463
W.M. Ritter Lumber Co.
- 2) Operator's Well Number: 252, Serial No. 120281 3) Elevation: 1923.43'
- 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: 6588'KB feet
- 7) Approximate fresh water strata depths: -
- 8) Approximate salt water depths: 1418'KB
- 9) Approximate coal seam depths: Not operated - solid coal
- 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	LS	42.0	30	30	CTS
Fresh Water						
Coal						
Intermediate	8 5/8	J55	24.0	1468	1468	CTS
Production	5 1/2	J55	15.5	6588	6588	As Needed
Tubing	1.9	J55	2.76	-	6538	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 50 Security Agent
(Type)

10/33
506811

380519-11.3
380519-11.2
380519-11.1

RECEIVED
JAN 26 1990
DIVISION OF OIL AND GAS
DEPARTMENT OF ENERGY

Date: January 25, 1990
Operator's well number
W.M. Ritter Lumber Co. #252, Serial #120281
API Well No: 47 - 109 - 1130
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 133 Peachtree
Atlanta, GA 30303
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Rodney Dillon
Address P.O. Box 1526
Sophia, WV 25921
Telephone (304)-683-3989

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration
Name Georgia-Pacific Corp.
Address 133 Peachtree
Atlanta, GA 30303
Name _____
Address _____
(c) Coal Lessee with Declaration
Name Robinson-Phillips Coal Co.
Address P.O. Box Drawer G
Welch, WV 24801

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 25th day of January, 1990

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

Well Operator's Report of Well Work

Farm name: GEORGIA-PACIFIC CORP. Operator Well No.: 252-S-120281

LOCATION: Elevation: 1923.43 Quadrangle: MATHENY

District: CENTER County: WYOMING
 Latitude: 8280 Feet South of 37 Deg. 40Min. 0 Sec.
 Longitude 2280 Feet West of 81 Deg. 32 Min. 80 Sec.

Company: ASHLAND EXPLORATION, INC.
 P. O. BOX 391
 ASHLAND, KY 41114-0000

Agent: FORREST BURKETT

Inspector: RODNEY G. DILLON
 Permit Issued: 02/12/90
 Well work Commenced: 03/18/90
 Well work Completed: 06/01/90
 Verbal Plugging
 Permission granted on:
 Rotary x Cable _____ Rig
 Total Depth (feet) 6565
 Fresh water depths (ft) None

Noted While Drilling
 Salt water depths (ft) Approximately
1418'
 Is coal being mined in area (Y/N)? N
 Coal Depths (ft): Not noted while drilling

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
16"	27'	27'	11.8
8 5/8"	1440'	1440'	590
5 1/2"	6512'	6512'	707
1.9" @ 152' KB	w/ADL-1	@ 2955' KB	
1.9" @ 2902' KB			

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 4908-6256
Gordon 3862-3881
 Gas: Initial open flow 33 MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 948 / 747 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 3 Hours
 Static rock Pressure 660# psig (surface pressure) after 72 Hours
 Second producing formation Big Lime Pay zone depth (ft) 2792-2924
Ravenscliff 1670-1705
 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 230# 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.

RECEIVED
 Division of Energy

JUN 25 90

Permitting
 Oil and Gas Section

For: ASHLAND EXPLORATION, INC.

By: James L. Stephens, Jr. James L. Stephens, Jr. Engineer-Tech
 Date: June 20, 1990

JUN 29 1990

FORMATION OR ROCK TYPE

TOP

BASE

FORMATION OR ROCK TYPE	TOP	BASE
Sand & Shales	0'	930'
Lower Lee Sand	930'	1378'
Sand & Shale	1378'	1439'
Princeton	1439'	1544'
Sand & Shale	1544'	1624'
Ravenscliff	1624'	1723'
Avis LS	1723'	1768'
Sand & Shales	1768'	2127'
Middle Maxton	2127'	2214'
Sand & Shale	2214'	2407'
Lower Maxton	2407'	2522'
Little Lime	2522'	2598'
Pencil Cave	2598'	2640'
Big Lime	2640'	3114'
Shales	3114'	3308'
Lower Weir	3308'	3354'
Shales	3354'	3684'
Coffee Shale	3684'	3701'
Devonian Shale	3701'	6546'
Gordon	3842'	3883'
Onondaga LS	6546'	TD
LTD 6564'	DTD 6565'	

WELL TREATMENT

Perf Lower Devonian Shale 25H/5808-6256. ^{Rh?} N₂ frac w/1000 gal 14% inh Fe acid, 1,000,073 SCF N₂ @ 42,000 SCF/min. BD @ 3860#, ATP 3850#, MTP 3860#, ISIP 3400# & 15 min 2050#.

Perf Upper Devonian Shale 25H/4908-5388. ^{LH} N₂ frac w/1,000,073 SCF N₂ @ 75,000 SCF/min, BD @ 2820#, ATP 3250#, MTP 3250#, ISIP 2800# & 15 min 1880#.

Perf Gordon Sand 40H/3862-3881. 75 Quality foam frac using 500 gal 16% inh Fe acid, 1000 gal treated Methanol @ 25%, 44,000# 20/40 sand & 345,000 SCF N₂ @ 12,200 SCF/min. BD @ 1390#, ATP 1350# @ 30 bpm foam rate, MTP 1530#, ISIP 1150#, 15 min 1070# & TF 252 bbls.

Perf Big Lime 28H/2792-2924. Acidize using 500 gal inh Fe 15% acid, 4000 gal Gelled 15% acid. BD @ 610#, ATP 640# @ 3 1/2 bpm, MTP 700#, ISIP 580#, 15 min 340# & TF 193 bbls.

Perf Ravenscliff 50H/1670-1705. 75 Quality foam frac Ravenscliff Sand using 500 gal 16% inh Fe acid, 62,000# 20/40 sand & 737,000 SCF N₂ @ 18,000 SCF/min. BD @ 3760#, ATP 2700# @ 30 bpm foam rate, MTP 3760#, ISIP 1800#, 15 min 1640# & TF 329 bbls.