



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2,000'
 MINIMUM DEGREE OF ACCURACY 1:19,987
 PROVEN SOURCE OF ELEVATION U.S.G.S. B.M. 689
 Elev. = 689.559

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

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

DATE July 19, 19 91
 OPERATOR'S WELL NO. Island Creek Coal Co. D-38
 API WELL NO. S.N. 135631

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

LOCATION: ELEVATION 1821.46 WATERSHED Pine Gap Branch of Whitman Creek
 DISTRICT Island Creek 4 COUNTY Logan
 QUADRANGLE Holden 415 SE

SURFACE OWNER Georgia-Pacific Corporation ACREAGE 7,237.61 (Tr. 47)
 OIL & GAS ROYALTY OWNER Island Creek Coal Company LEASE ACREAGE 35,053.47
 LEASE NO. 80662

PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE 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 5,715' KB
 WELL OPERATOR Ashland Exploration, Inc. DESIGNATED AGENT _____
 ADDRESS P.O. Box 391 ADDRESS P.O. Box 379
Ashland, Ky. 41118 Brenton, W. Va. 24818

COUNTY NAME _____ PERMIT _____

DEEP WELL 6-6 Magnolia (265)

Reviewed TMG
Recorded _____

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: GEORGIA-PACIFIC CORP Operator Well No.: ICCD D 38
LOCATION: Elevation: 1821.46 Quadrangle: HOLDEN
District: ISLAND CREEK County: LOGAN
Latitude: 8350 Feet South of 37 Deg. 47 Min. 30 Sec.
Longitude: 600 Feet West of 82 Deg. 2 Min. 30 Sec.

Company: ASHLAND EXPLORATION, INC.
P. O. BOX 391, A1-6
ASHLAND, KY 41114-0391

Agent: B. E. WIDENER

Inspector: OFIE HELMICK

Permit Issued: 12/20/91
Well work Commenced: 04/16/92
Well work Completed: 06/01/92
Verbal Plugging:
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 5694
Fresh water depths (ft) Damp 80'
2 1/2" stream @ 540'
Salt water depths (ft) _____
3" stream @ 2427'
Is coal being mined in area (Y/N)? N
Coal Depths (ft): 358-360
open mine 1078-1083

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
16"	43'	43'	17.7
11 3/4"	1137'	1137'	825
8 5/8"	2879'	2879'	975
5 1/2"	5685'	5685'	361
2 3/8"	@ 5567'	KB	

OPEN FLOW DATA

Producing formation Devonian Shale/Berea Pay zone depth (ft) 3857-5620
Gas: Initial open flow -0- MCF/d Oil: Initial open flow --- Bbl/d
Final open flow 1094 MCF/d Final open flow --- Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock pressure 675# psig (surface pressure) after 72 Hours

Second producing formation None Pay zone depth (ft) ---
Gas: Initial open flow --- MCF/d Oil: Initial open flow --- Bbl/d
Final open flow --- MCF/d Final open flow --- Bbl/d
Time of open flow between initial and final tests --- Hours
Static rock Pressure --- psig (surface pressure) after --- Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1. DETAILS OF PERFORATED INTERVALS, FRACTURING OF STIMULATING, PHYSICAL CHANGE, ETC. 2.) THE WELL LOG WHICH IS A SYSTEMATIC DETIALED 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: 6/12/92

JUN 26 1992

<u>Formation on Rock Type</u>	<u>TOP</u>	<u>BASE</u>
Sand and Shale (Base Lee Fm)	0	2485
Pennington formation	2485	3005
U. Maxton 2802-2864		
L. Maxton 2952-2982		
Little Lime	3005	3057
Big Lime	3057	3301
Borden formation	3301	3825
Sunbury Shale	3825	3856
Berea	3856	3878
Devonian Shale	3878	5687
Onondaga Ls	5687	TD

DTD 5694
LTD 5702

8 5/8" and 11 3/4" cmt'd to surface on primary job.

Well Treatment

Perf Rhinestreet 17H/5407-5620. N₂ frac using 500 gal 7½% fe acid, 808,000 scf N₂ @ 104,300 scf/min. BD @ 2844#, ATP 3882#, MTP 3924# and ISIP 2473#.

Perf Huron 21H/4861-5177. N₂ frac using 808,000 scf N₂ @ 104,300 scf/min. BD @ 3942, ATP 3354#, MTP 3942# and ISIP 1940.

Perf U. Shale/Berea 19H/3857-4273. N₂ frac using 500 gal 7½% fe acid, 808,000 scf N₂ @ 105,500 scf/min. BD @ 2951#, ATP 3187#, MTP 3416# and ISIP 1889.

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

- 1) Well Operator: ⁶⁰⁴³ Ashland Exploration, Inc. 2750 (5) 401
- 2) Operator's Well Number: Island Creek Coal Co. D-38 3) Elevation: 1821.8
Serial #135631
- 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 ⁴⁴¹
- 6) Proposed Total Depth: 5715 KB feet
- 7) Approximate fresh water strata depths: 1,007' KB (Map WV-12)
- 8) Approximate salt water depths: 1,332' KB (Map WV-12)
- 9) Approximate coal seam depths: Lower Cedar Grove-Mined Out Elev. 733'
- 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	-----	30	30	CTS
Fresh Water						30 CSR 11.3
Coal	11 3/4"	H40	42.0	1159	1159	30 CSR 11.2.2
Intermediate	8 5/8"	J55	24.0	2950	2950	CTS
Production	5 1/2"	J55	15.5	5715	5715	30 CSR 11.1 As Needed
Tubing	1.9"	J55	2.76	-----	5665	Siphon
Liners						

12850

RECEIVED
Division of Energy

PACKERS : Kind _____
Sizes _____
Depths set _____

AUG 21 94

506305
22
For Division of Oil and Gas Use Only

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

1) Date: August 20, 1991
2) Operator's well number
Island Creek Coal Co. #D-38, Serial #135631
3) API Well No: 47 - 045 - 1178
State - County - Permit

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

RECEIVED
Division of Energy
AUG 21 1991

4) Surface Owner(s) to be served:
(a) Name Georgia-Pacific Corp.
Address Jerry Crouse
Wyoming, WV 24898
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Ofie Helmick
Address 525 Tiller Street
Logan, WV 25601
Telephone (304)-792-7075

5) (a) Coal Operator:
Name N/A
Address _____
(b) Coal Owner(s) with Declaration
Name Island Creek Coal Company
Address P.O. Box 840
Holden, WV 25625
Name _____
Address _____
(c) Coal Lessee with Declaration
Name N/A
Address _____

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

Subscribed and sworn before me this 20th day of August, 1991

Thick W. Rosta Notary Public
My commission expires November 23, 1994