



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1 : 143,294
 PROVEN SOURCE OF ELEVATION TBM #13, I.C.C.C. "D-28"
 Elev. = 1481.03

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

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

DATE February 19, 19 92
 OPERATOR'S WELL NO. Island Creek Coal Co. D-47
 API WELL NO. S.N. 140151
47 - 045 - 1186
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1477.73 WATERSHED Crawley Creek of the Guyandotte River
 DISTRICT Guyan 1 COUNTY Logan
 QUADRANGLE Chapmanville Holden EC

SURFACE OWNER Georgia-Pacific Corporation ACREAGE 798.76 (I.C.3)
 OIL & GAS ROYALTY OWNER Island Creek Coal Company LEASE ACREAGE 35,053.47
 LEASE NO. 80662

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 4,548' KB
 WELL OPERATOR Ashland Exploration, Inc. DESIGNATED AGENT Bobby E. Widener
 ADDRESS P.O. Box 391 ADDRESS P.O. Box 379
Ashland, Ky. 41114 Brenton, W. Va. 24818

COUNTY NAME
 PERMIT

Handwritten notes at bottom of page:
 0900 W911-64
 Chapmanville
 (292)

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

Reviewed TMB
Recorded _____

Well Operator's Report of Well Work

Farm name: GEORGIA-PACIFIC CORP

Operator Well No. ICCD D 47

LOCATION: Elevation: 1477.73

Quadrangle: CHAPMANVILLE

District: GUYAN
Latitude: 10300 Feet South of 37
Longitude: 3900 Feet West of 82

County: LOGAN
Deg. 55 Min. 0 Sec.
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: 03/30/92
Well work Commenced: 05/14/92
Well work Completed: 07/08/92

Verbal Plugging:
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 4582
Fresh water depths (ft) _____
480' 2" stream
Salt water depths (ft) _____
2" stream @ 1792'

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 206-208, 217-219,
273-276, 331-332, 372-375, 408-410

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
16"	40'	40'	15.3
8 5/8"	1613'	1613'	832
5 1/2"	4557'	4557'	706
1.9" @	4488 w/	R-4 pkr	@ 2309'
1.9" @	2291'		

OPEN FLOW DATA

Producing formation Devonian Shale/Berea Pay zone depth (ft) 2722-4504
Gas: Initial open flow -0- MCF/d Oil: Initial open flow --- Bbl/d
Final open flow 1028 MCF/d Final open flow --- Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock pressure 375# psig (surface pressure) after 72 Hours

Second producing formation M. Weir/Big Lime Pay zone depth (ft) 2033-2231
Gas: Initial open flow -0- MCF/d Oil: Initial open flow --- Bbl/d
Final open flow 472 MCF/d Final open flow --- Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock Pressure 410# psig (surface pressure) after 72 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.

JUL 24 1992

By: James L. Stephens James L. Stephens, Eng. Tech.
Date: 7/14/92

<u>Formation on Rock Type</u>	<u>TOP</u>	<u>BASE</u>
Sand and Shale (Base Lee Fm)	0	1528
Pennington formation	1528	1911
U. Maxton 1730-1790		
L. Maxton 1875-1889		
Little Lime	1911	1960
Big Lime	1960	2153
Borden formation	2153	2694
M. Weir 2222-2254		
Sunbury Shale	2694	2719
Berea	2719	2729
Devonian Shale	2729	4566
Onondaga Ls	4566	TD
DTD 4582		
LTD 4572		

8 5/8" cemented to surface by grouting 150 sx @ the time of the primary job.

Well Treatment

Perf Rhinestreet 15H/4300-4504. N₂ frac using 300 gal 7½%, 806,000 scf N₂ @ 98,700 scf/min. BD @ 3337#, ATP 4036#, MTP 4131#, and ISIP 2348.

Perf Huron 20H/3755-4070. N₂ frac using 400 gal 7½% HCL-fe acid, 809,000 scf N₂ @ 102,400 scf/min. BD @ 2038#, ATP 3141#, MTP 3205# and ISIP 1438#.

Perf U. Dev. Shale/Berea 19H/2722-3034. N₂ frac using 450 gal. 7½% fe acid, 805,000 scf N₂ @ 100,100 scf/min. BD @ 2230#, ATP 3005#, MTP 3048#, and ISIP 1846#.

Perf M. Weir and Big Lime 24H/2033-2231. 75 Quality foam frac using 1000 gal 15% fe acid, 49,300# 20/40 sand, 167,000 scf N₂ @ 5800 scf/min. BD @ 1536#, ATP 1189# @ 20 bpm, MTP 1536#, and ISIP 1103#.

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

045-1186
Issued 3/30/92
Expires 3/30/94

Page 1
RECEIVED
Office of Oil & Gas
Permitting
MAR 15 92
WV Division of
Environmental Protection

- 1) Well Operator: Ashland Exploration, Inc. ⁴³ 2750 (4) 288
Island Creek Coal Company
- 2) Operator's Well Number: D-47, Serial #140151 3) Elevation: 1477
- 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: 4548'KB feet
- 7) Approximate fresh water strata depths: 648'KB Elev of Base (Map WV-12)
- 8) Approximate salt water depths: 888'KB Elev of Top (Map WV-12)
- 9) Approximate coal seam depths: Solid No Seams Operated
- 10) Does land contain coal seams tributary to active mine? Yes___/ No X/
- 11) Proposed Well Work: Drill and 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	36.91	30	30	CTS
Fresh Water						38CSR/A/1.3
Coal						38CSR/A/1.2 2
Intermediate	8 5/8	J55	24.0	1608	1608	CTS
Production	5 1/2	J55	15.5	4548	4548	AS NEEDED
Tubing	1.9	J55	2.76	-	4498	SIPHON
Liners						38CSR/A/1.1

PACKERS : Kind _____
 Sizes _____
 Depths set _____

506517 For Division of Oil and Gas Use Only

Dep # 12

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

- 1) Date: March 12, 1992
- 2) Operator's well number
Island Creek Coal Co. #D-47, Serial #140151
- 3) API Well No: 47 - 045 - 1186
State - County - Permit

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

RECEIVED
Office of Oil & Gas
Permitting
MAR 13 92

- | | |
|--|---|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Georgia-Pacific Corp.</u>
Address <u>Jerry Crouse, General Delivery</u>
<u>Wyoming, WV 24898</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name _____
Address _____</p> <p>(b) Coal Owner(s) with Declaration
Name <u>Island Creek Coal Company</u>
Address <u>P.O. Box 840</u>
<u>Holden, WV 25625</u></p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration
Name _____
Address _____</p> |
| <p>6) Inspector <u>Ofie Helmick</u>
Address <u>P.O. Box 218</u>
<u>Fanrock, WV 24834</u>
Telephone (304)- <u>732-9135</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: W. Mark Parks *W. Mark Parks DKC*
Its: Operations Manager
Address P.O. Box 391
Ashland, KY 41114
Telephone 606-329-5989

Subscribed and sworn before me this 12th day of March, 1992

Debi W. Souta Notary Public
My commission expires November 23, 1994