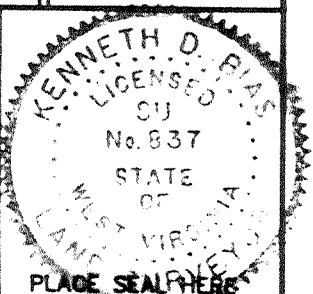


FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 : 2500
PROVEN SOURCE OF ELEVATION AGIPCOAL USA INC.
STA. 171 ELEV. 1032.49'

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) Kenneth D. Bias
R.P.E. _____ L.L.S. 837-SU



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE MAY 07, 19 92
OPERATOR'S WELL NO. ISLAND CREEK COAL CO.
API WELL NO. D-55, S.N. 140631

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 1717.37 WATER SHED ROCKHOUSE FORK OF PIGEON CREEK OF TUG FORK RIVER
DISTRICT LEE 4 COUNTY MINGO
QUADRANGLE DELBARTON Martenan NC
SURFACE OWNER GEORGIA PACIFIC CORP. U.T. TR. 32 ACREAGE 6,614.90 AC. P/O 25,000 AC.
OIL & GAS ROYALTY OWNER ISLAND CREEK COAL CO. 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 5450'
WELL OPERATOR ASHLAND EXPLORATION, INC. DESIGNATED AGENT BOBBY E. WIDENER
ADDRESS P.O. BOX 391 ASHLAND, KY 41114 43 ADDRESS P.O. BOX 379 BRENTON, WV 24818
DEEP WELL b-6 Magnolia (265)

COUNTY NAME PERMIT

JUL 2 1992

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OCT 3
Environmental Protection

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

Reviewed TMG
Recorded _____

Well Operator's Report of Well Work

Farm name: GEORGIA-PACIFIC CO. Operator Well No.: ICC#D55-S140631
LOCATION: Elevation: 1717.37 Quadrangle: DELBARTON
District: LEE County: MINGO
Latitude: 8780 Feet South of 37 Deg. 42 Min. 30 Sec.
Longitude: 4090 Feet West of 82 Deg. 7 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: 06/29/92
Well work Commenced: 08/06/92
Well work Completed: 10/20/92
Verbal Plugging:
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 5460
Fresh water depths (ft) Damp @ 95'
1128' 3/4" fresh water
Salt water depths (ft) _____
None noted
Is coal being mined in area (Y/N)? N
Coal Depths (ft): 435-437, 481-483
Open mine at 858-862.

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
16"	48'	48'	11.8
11 3/4"	996'	996'	620
8 5/8"	2971'	2971'	988
5 1/2"	5462'	5462'	528
1.9" @ 1.9" @	5392' w/ 3118'	R-4 pkr @	3233' KB

OPEN FLOW DATA

Producing formation Dev. Shale/Berea Pay zone depth (ft) 3850-5418
Gas: Initial open flow 0 MCF/d Oil: Initial open flow --- Bbl/d
Final open flow 1192 MCF/d Final open flow --- Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock pressure 680# psig (surface pressure) after 72 Hours

Second producing formation Big Lime Pay zone depth (ft) 3107-3113
Gas: Initial open flow 0 MCF/d Oil: Initial open flow --- Bbl/d
Final open flow 349 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

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: 10/27/92

NOV 6 1992

1541
MCF

<u>Formation on Rock Type</u>	<u>TOP</u>	<u>BASE</u>
Sand and Shale	0	1558
Lee formation	1558	2290
Pennington formation	2290	2906
Little Lime	2906	2962
Big Lime	2962	3220
Borden formation	3220	3782
Sunbury Shale	3782	3815
Berea	3815	3864
Devonian Shale	3864	5457
Onondaga Ls	5457	TD

DTD 5460
LTD 5471

11 3/4" and 8 5/8" casing cemented to surface on primary job.

Well Treatment

Perf Rhinestreet 16H/5306-5418. N₂ frac using 300 gal 8% fe acid, 813,000 scf N₂ @ 101,000 scf/min. BD @ 3405#, ATP 4040#, MTP 4221# and ISIP 2994#.

Perf L. Huron 20H/4704-4978. N₂ frac using 350 gal 8% fe acid, 815,000 scf N₂ @ 110,000 scf/min. BD @ 3754#, ATP 3313#, MTP 3754# and ISIP 2074#.

Perf U. Dev. Shale/Berea 18H/3850-4239. N₂ frac using 550 gal 8% fe acid, 829,000 scf N₂ @ 107,000 scf/min. BD @ 3086#, ATP 3266#, MTP 3450# and ISIP 2308#.

Perf Big Lime 13H/3107-3113. 75 quality foam frac using 1000 gal 15% fe acid, 65,800# 20/40 sand, 448,000 scf N₂ @ 11,000 scf/min. BD @ 3087#, ATP 1983# @ 20 BPM foam rate, MTP 3087# and ISIP 1530#.

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Division of Protection

STATE OF WEST VIRGINIA

Issued

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

WELL WORK PERMIT APPLICATION

Expires 6/29/94

- 1) Well Operator: Gas Ashland Exploration, Inc. 2750 (4) 321
Island Creek Coal Co.
- 2) Operator's Well Number: D-55, Serial #140631 3) Elevation: 1717
- 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
- 6) Proposed Total Depth: 5460' feet
- 7) Approximate fresh water strata depths: 588', 630' KB
- 8) Approximate salt water depths: 1600' KB
Upper Cedar Grove 878' KB, Mined Out Lowest Seam 1068' KB
- 9) Approximate coal seam depths: Lower Cedar Grove 907' KB Mined Out
- 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	40	40	CTS
Fresh Water						3805/11.3
Coal	11 3/4	H40	42.0	967	967	CTS
Intermediate	8 5/8	J55	24.0	2347	2347	3805/11.2.2 CTS
Production	5 1/2	J55	15.5	5460	5460	AS NEEDED
Tubing	1.9	J55	2.76	-	5410	SIPHON
Liners						3805/11.1

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 Security Blanket Agent
 (Type)

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WV Division of
Environmental Protection

JUN 11 1992

Permitting
Office of Oil & Gas

Page 1 of _____
Form WW2-A
(09/87)

1) Date: June 9, 1992
2) Operator's well number
Island Creek Coal Company #D-55, Serial #1406
3) API Well No: 47 - 59 - 1169
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>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</p> <p>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</p> <p>Name <u>Hobert Mining, Inc.</u> Address <u>P. O. Box 305</u> <u>Madison, WV 25130</u></p>
<p>6) Inspector <u>Ofie Helmick</u> Address <u>P. O. Box 218</u> <u>Sanrock, 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

_____ 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 _____ on the above named parties, by:

- _____ Personal Service (Affidavit attached)
- 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* OKC
 Its: Operations Manager
 Address P.O. Box 391
Ashland, KY 41114
 Telephone 606-329-5989

Subscribed and sworn before me this 9 day of June, 1992

LAMIE CHATELID

My commission expires My commission expires November 14, 1993

Lamie Chatelid Notary Public