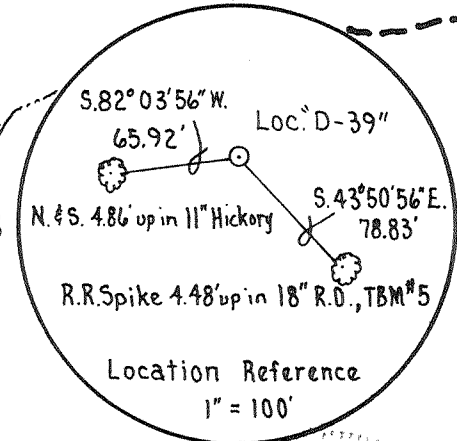


- Corners:
- ① 3/4" Iron Pin on "Wet Knob"
 - ② 16" C.O. on Knob
 - ③ G.P. Sta. 20573, Iron Pin
 - ④ G.P. Sta. 20570, Iron Pin



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2,000'
 MINIMUM DEGREE OF ACCURACY 1:13,517
 PROVEN SOURCE OF ELEVATION U.S.C. & G.S., B.M. "N-145"
 Elev. = 809.585

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 November 5, 19 91
 OPERATOR'S WELL NO. Island Creek Coal Co. No. 39
 API WELL NO. _____ S.N. 137181

WELL TYPE: OIL _____ GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 1053.24 WATERSHED Rockhouse Branch of Mud Fork of Island Creek
 DISTRICT Island Creek #4 COUNTY Logan
 QUADRANGLE Chapmanville Holden et

SURFACE OWNER Georgia-Pacific Corporation ACREAGE 9,053.09
 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 4,120' KB
 WELL OPERATOR Ashland Exploration, Inc DESIGNATED AGENT B. E. Widener
 ADDRESS P.O. Box 391 Ashland, Ky. 41114 ADDRESS P.O. Box 379 Brenton, W.V. 24818

DEEP WELL 6-6 Logan-Holden-Dingess (274)

COUNTY NAME PERMIT

JAN 10 1992

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.: D-39 S-137181

LOCATION: Elevation: 1053.24

Quadrangle: CHAPMANVILLE

District: ISLAND CREEK County: LOGAN
Latitude: 11600 Feet South of 37 Deg. 55 Min. 0 Sec.
Longitude: 11500 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: 01/06/92
Well work Commenced: 03/11/92
Well work Completed: 07/17/92
Verbal Plugging: _____
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 4104
Fresh water depths (ft) _____
3" stream 80'
Salt water depths (ft) _____
None noted
Is coal being mined in area (Y/N)? N
Coal Depths (ft): 885-889

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
16"	42'	42'	11.8
11 3/4"	313'	313'	294
8 5/8"	1500'	1500'	505
5 1/2"	4081'	4081'	781
1.9" @ 1.9" @	3936' w/ 1768'	R-4 pkr @	1801

OPEN FLOW DATA

Producing formation Dev. Shale/Berea Pay zone depth (ft) 2290-4024
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 495# psig (surface pressure) after 72 Hours

Second producing formation Big Lime Pay zone depth (ft) 1608-1762
Gas: Initial open flow 84 MCF/d Oil: Initial open flow --- Bbl/d
Final open flow *637 MCF/d Final open flow --- Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock Pressure 500# 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: 8/12/92

Formation on Rock Type	<u>TOP</u>	<u>BASE</u>
Sand and Shale (Base Lee Fm)	0	1092
Pennington formation	1092	1489
U. Maxton 1319-1384		
L. Maxton 1456-1468		
Little Lime	1489	1540
Big Lime	1540	1762
Borden formation	1762	2257
Sunbury Shale	2257	2287
Berea	2287	2306
Devonian Shale	2306	4092
Onondaga Ls	4092	TD

DTD 4104
LTD 4107

11 $\frac{3}{4}$ " casing cemented to surface by grouting 40 sx after primary cement job.
8 $\frac{1}{2}$ " casing cemented to surface on primary job.

Well Treatment

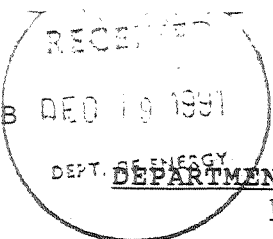
Perf Rhinestreet 16H/3804-4024. N₂ frac using 500 gal 7 $\frac{1}{2}$ % fe acid, 811,000 scf N₂ @ 102,000 scf/min. BD @ 2380#, ATP 3100#, MTP 3160# and ISIP 2000#.

Perf L. Huron 21H/3295-3580. N₂ frac using 500 gal 7 $\frac{1}{2}$ % fe acid, 805,000 scf N₂ @ 103,000 scf/min. BD 4080#, ATP 2500#, MTP 4080# and ISIP 1400#.

Perf U. Dev. Shale and Berea 19H/2290-2708. N₂ frac using 500 gal 8 $\frac{1}{2}$ % fe acid, 812,000 scf N₂ @ 102,000 scf/min. BD 1610#, ATP 2150#, MTP 2320# and ISIP 1200#.

Perf Big Lime 26H/1608-1762. 60 quality foam acidize using 500 gal 15% fe acid, 8000 gal 28% fe acid, and 239,500 scf N₂ @ 5,700 scf/min. BD 2570#, ATP 1800# @ 5.7 bbl/min acid rate, MTP 2570# and ISIP 1840#.

DEC 19 1991



045-1180

Issued 1/6/92

Expires 1/6/94

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

- 1) Well Operator: Ashland Exploration, Inc. 2750 (5) 238 Island Creek Coal Co.
2) Operator's Well Number: D-39, Serial #137181 3) Elevation: 1053.2
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: 5,163' KB feet
7) Approximate fresh water strata depths: 213' KB (Map WV-12)
8) Approximate salt water depths: 488' KB (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

Table with 7 columns: TYPE, SPECIFICATIONS (Size, Grade, Weight per ft.), FOOTAGE INTERVALS (For drilling, Left in well), and CEMENT (Fill-up (cu.ft.)). Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, and Liners.

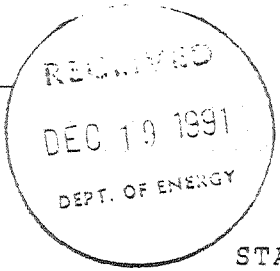
PACKERS : Kind Sizes Depths set

For Division of Oil and Gas Use Only

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

13059

506405 31



- 1) Date: December 18, 1991
- 2) Operator's well number
Island Creek Coal Co. #D-39, Serial #137181
- 3) API Well No: 47 - 045 - 1180
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 General Delivery
Wyoming, WV 24898
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 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 _____
- 6) Inspector Ofie Helmick
Address P.O. Box 218
Sanrock, WV 24834
Telephone (304)- 732-9135

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 2 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
 Its: Operations Manager
 Address P.O. Box 391
Ashland, KY 41114
 Telephone 606-329-5989

Subscribed and sworn before me this 18th day of December, 1991

T. W. Parks Notary Public
 My commission expires November 23, 1994