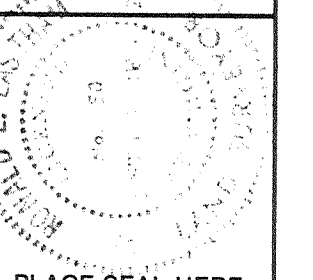


FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2,000'
 MINIMUM DEGREE OF ACCURACY 1:23,093
 PROVEN SOURCE OF ELEVATION U.S.C. & G.S. B.M. "G-144"
 Elev. = 737.269

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



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

DATE Feb. 20, 19 91
 OPERATOR'S WELL NO. Island Creek Coal Co. D-34
 API WELL NO. S.N. 134061

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

LOCATION: ELEVATION 1,023.22 WATERSHED Copperas Mine Fork of Island Creek
 DISTRICT Island Creek 4 COUNTY Logan
 QUADRANGLE Holden 114 50

SURFACE OWNER Georgia-Pacific Corporation ACREAGE 35,053.47
 OIL & GAS ROYALTY OWNER Island Creek Coal Company LEASE ACREAGE 35,053.47
 LEASE NO. WV-486

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 4,433' K.B.
 WELL OPERATOR Ashland Exploration Inc. 43 DESIGNATED AGENT Forrest Burkett
 ADDRESS P.O. Box 391, Ashland, Ky. 41114 ADDRESS P.O. Box 379, Brenton, W.V. 24818

STATE 47 COUNTY 045 PERMIT 1165

COUNTY NAME _____ PERMIT _____

APR 12 1991

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

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Reviewed TM6

Recorded _____

Well Operator's Report of Well Work

Farm name: GEORGIA PACIFIC

Operator Well No.: ISLAND CRK D 34

LOCATION: Elevation: 1023.22

Quadrangle: HOLDEN

District: ISLAND CREEK
Latitude: 860 Feet South of 37
Longitude: 11760 Feet West of 82

County: LOGAN
Deg. 50 Min. 0 Sec.
Deg. 5 Min. 0 Sec.

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

Agent: FORREST BURKETT

Inspector: TIM BENNETT

Permit Issued: 04/11/91
Well work Commenced: 04/02/92
Well work Completed: 05/26/92

Verbal Plugging: _____
Permission granted on: _____

Rotary Cable _____ Rig _____

Total Depth (feet) 4452

Fresh water depths (ft) _____
990' damp

Salt water depths (ft) _____
None noted

Is coal being mined in area (Y/N)? N

Coal Depths (ft): 76-79

| Casing & Tubing | Used in Drilling | Left in Well | Cement Fill Up Cu. Ft. |
|-----------------|------------------|--------------|------------------------|
| Size | | | |
| 16" | 30' | 30' | 11.8 |
| 11 3/4" | 402' | 402' | 322 |
| 8 5/8" | 1852' | 1852' | 628 |
| 5 1/2" | 4430' | 4430' | 450 |
| 2 3/8" | @ 4467' | KB | |

RECEIVED
Office of Oil & Gas Permitting
JUN 05 92
WV Division of Environmental Protection

OPEN FLOW DATA

Producing formation Devonian Shale/Berea Pay zone depth (ft) 2776-4376
Gas: Initial open flow -0- MCF/d Oil: Initial open flow -0- Bbl/d
Final open flow 758 MCF/d Final open flow -0- Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock pressure 515# 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: 6/4/92

JUN 16 1992

| <u>Formation on Rock Type</u> | <u>TOP</u> | <u>BASE</u> |
|-------------------------------|------------|-------------|
| Sand and Shale (Base Lee Fm) | 0 | 1606 |
| Pennington formation | 1606 | 1918 |
| Little Lime | 1918 | 1969 |
| Big Lime | 1969 | 2103 |
| Borden formation | 2103 | 2725 |
| Sunbury Shale | 2725 | 2758 |
| Berea | 2758 | 2811 |
| Devonian Shale | 2811 | 4445 |
| Onondaga Ls | 4445 | TD |

LTD 4456
 DTD 4452

8 1/4" and 11 3/4" cemented to surface on primary job.

Well Treatment

Perf Rhinestreet 12H/4287-4376. N₂ frac using 500 gal 7 1/2% fe acid, 806,000 scf N₂ @ 94,000 scf/min. BD @ 2050#, ATP 3800#, MTP 4080# and ISIP 2400#.

Perf Huron 19H/3670-3967. N₂ frac using 500 gal 7 1/2% fe acid, 806,000 scf N₂ @ 99,000 scf/min. BD @ 2750#, ATP 2600#, MTP 2750# and ISIP 1300#.

Perf U. Shale/Berea 21H/2776-3204, N₂ frac using 500 gal 7 1/2% fe acid, 810,000 scf N₂ @ 103,000 scf/min. BD @ 1860#, ATP 2600#, MTP 2650# and ISIP 1200#.

12024

045-1165

Issued 04/11/91

Expires 04/11/93

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

- 1) Well Operator: Ashland Exploration, Inc. 2750 (5) 401
2) Operator's Well Number: Island Creek Coal Co. #D-34 3) Elevation: 1023.22
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: 4433'KB feet
7) Approximate fresh water strata depths: 108'KB (Map WV-12)
8) Approximate salt water depths: 433'KB (Map WV-12)
9) Approximate coal seam depths: Not Operated - Solid Coal
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

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

PACKERS : Kind _____ Sizes _____ Depths set _____

MAR 18 91

For Division of Oil and Gas, Use Only

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

1) Date: March 15, 1991
2) Operator's well number
Island Creek Coal Co. #D-34, Serial #134061
3) API Well No: 47 - 045 - 1165
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

RECEIVED
MAR 18 91
Oil and Gas Section

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name Georgia-Pacific Corp.
Address Jerry Crouse
Wyoming, WV 24898
(b) Name _____
Address _____
(c) Name _____
Address _____

5) (a) Coal Operator: N/A
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 _____

6) Inspector Tim Bennett
Address Route 2 Box 61-B
Chapmanville, WV 25508
Telephone (304)-855-7705

(c) Coal Lessee with Declaration
Name _____
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 15th day of March, 1991

Chickie W. Sonta

Notary Public

My commission expires November 23, 1994