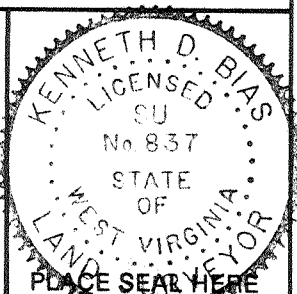


FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1: 2500
 PROVEN SOURCE OF ELEVATION AGIPCOAL STA. 171
 ELEV. 1032.49'

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 FEB. 28, 19 91
 OPERATOR'S WELL NO. ISLAND CREEK COAL CO.
 API WELL NO. D-25
47 - 059 - 1150
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1,293.34' WATER SHED ELK CREEK OF PIGEON CREEK OF TUG RIVER
 DISTRICT LEE 4 COUNTY MINGO
 QUADRANGLE BARNABUS Matewan NC
 SURFACE OWNER GEORGIA PACIFIC CORP. ACREAGE 782.88 AC.
 OIL & GAS ROYALTY OWNER ISLAND CREEK COAL CO. LEASE ACREAGE _____
 LEASE NO. _____
 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 5150 KB
 WELL OPERATOR ASHLAND EXPLORATION INC. DESIGNATED AGENT FORREST BURKETT
 ADDRESS P.O. BOX 391 ASHLAND, KY. 41114 4619 ADDRESS P.O. BOX 379 BRENTON, WV 24818

COUNTY NAME
 PERMIT

DEEP WELL - CO. Magnolia (265)

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

Reviewed JMG
Recorded _____

Well Operator's Report of Well Work

RECEIVED
25

OCT 01 91

Division of Energy
and Gas Section

Farm name: GEORGIA-PACIFIC CORP Operator Well No.: ISLAND CREEK

LOCATION: Elevation: 1293.34 Quadrangle: BARNABUS

District: LEE County: MINGO
Latitude: 15100 Feet South of 37 Deg. 45Min. 0 Sec.
Longitude 5000 Feet West of 82 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: 04/19/91
Well work Commenced: 6/21/91
Well work Completed: 8/12/91
Verbal Plugging _____
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 5104
Fresh water depths (ft) 383'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
20"	47'	47'	Driven
16"	68'	68'	41.3
11 3/4"	583'	583'	330
8 5/8"	2485'	2485'	764
5 1/2"	5084'	5084'	485

Salt water depths (ft) 613'

Is coal being mined in area (Y/N)? N
Coal Depths (ft): open mine 501-505

OPEN FLOW DATA

1.9" @ 5015' KB w/ AD-L pkr @ 2782
1.9" @ 2764' KB

Producing formation Devonian Shale Pay zone depth (ft) 3433-50
Gas: Initial open flow 189 MCF/d Oil: Initial open flow 0 Bbl/
Final open flow 1057/157 MCF/d Final open flow 0 Bbl/
Time of open flow between initial and final tests 3 Hour
Static rock Pressure 770# psig (surface pressure) after 72 Hour

Second producing formation Rig Line Pay zone depth (ft) 2721-273
Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/
Final open flow 514 MCF/d Final open flow 0 Bbl/
Time of open flow between initial and final tests 3 Hour
Static rock Pressure 550# psig (surface pressure) after 72 Hour

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATE INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WEL LOG WHICH IS A SYSTEMATIC DETAILED 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: September 3, 1991

<u>Formation or Rock Type</u>	<u>TOP</u>	<u>BASE</u>
Sand & Shale (Base Lee Formation)	0	1933
Pennington Formation	1933	2475
U. Maxton 2075-2105		
L. Maxton 2297-2347		
Little Lime	2475	2530
Big Lime	2530	2744
Borden Formation	2744	3327
Wier Interval 2928-2994		
Sunbury Shale	3327	3368
Berea	3368	3389
Devonian Shale	5091	TD
Onondaga LS		
DTD 5100'		
LTD 5099'		

Well Treatment

Perf Rhinestreet 21H/ 4872-5052
N₂ frac. using 500 gal. 7½% HCL & 934,000 SCF N₂ @ 95,000 SCF/min.
BD @ 2660#, ATP 4175#, MTP 4220#, ISIP 2500# & 15 min. 2130#.

Perf Huron 24H/ 4228-4613
N₂ frac using 500 gal. 7½% HCL acid & 905,000 SCF N₂ @ 98,000 SCF/min.
BD @ 2700#, ATP -900#, MTP 3290#, ISIP 1900#

Perf Chagrin 20H/ 3433-3814
N₂ frac using 500 gal. 7½% HCL acid & 837,000 SCF N₂ @ 102,000 SCF/min.
BD @ 1980#, ATP 3200#, MTP 3300#, ISIP 1600#

Perf Big Lime 25 H/ 2721 - 2731
75 Quality Foam Frac. using 500 gal. 15% HCL acid, 55,000# 20/40 sand &
562,000 SCF N₂ @ 12,000 SCF/min.
BD @ 2899#, ATP 1453# @ 20 bpm, MTP 2899#, ISIP 1309#, 15 min. 990# &
TF 173 bbls.

059-1150 Issued 04/19/94

Expires 04/19/98

FORM WW-2B

Page ___ of ___

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

- 1) Well Operator: Ashland Exploration, Inc. 2750 (4) 232
2) Operator's Well Number: Island Creek Coal Co. #D-25 3) Elevation: 1293.34
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: 5117 KB feet
7) Approximate fresh water strata depths: 383' KB (Map WV-12)
8) Approximate salt water depths: 613' KB
9) Approximate coal seam depths: Lower Cedar Grove; Elev. 802'; Mined Out
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, FOOTAGE INTERVALS, CEMENT. Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, and Liners.

PACKERS : Kind ___ Sizes ___ Depths set ___

APR 03 94

For Division of Oil and Gas Use Only

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

12083

506162

- 1) Date: March 26, 1991
- 2) Operator's well number
Island Creek Coal Co. D-25 Serial #134261
- 3) API Well No: 47 - 059 - 1150
State - County - Permit

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

APR 03 91

- | | |
|--|--|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Georgia-Pacific Corp.</u>
Address <u>Jerry Crouse</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>AGIPCOAL USA, Inc.</u>
Address <u>P. O. Box 309</u>
<u>Ragland, WV 25690</u></p> |
|--|--|
- 6) Inspector Tim Bennett
Address Route 2, Box 61-B
Chapmanville, WV 25508
Telephone (304)- 855-7705

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

Subscribed and sworn before me this 27th day of March, 1991

Suzette S. Hubbard Notary Public
 My commission expires 4-27-93