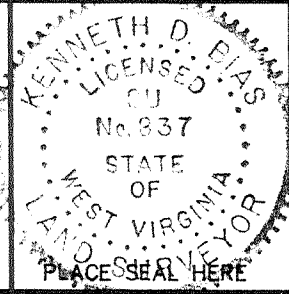


FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 : 2500'
 PROVEN SOURCE OF ELEVATION AGIPCOAL USA, INC.
 STA. 171 ELEV. 1032.49

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. Dorian
 R.P.E. _____ L.L.S. 837-SU



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE APRIL 10, 19 92
 OPERATOR'S WELL NO. ISLAND CREEK COAL CO. D-45, S.N. 140561
 API WELL NO. _____

47 - 59 - 1164
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1968.42' WATER SHED SPRING BR. OF ROCKHOUSE CR. OF PIGEON CK. OF TUG FORK
 DISTRICT LEE 4 COUNTY MINGO
 QUADRANGLE BARNABUS Mableworn N6

SURFACE OWNER CROWN CONSTRUCTION & RENOVATION, INC. ACREAGE 8000 ± AC. P/O 25,000 AC.
 OIL & GAS ROYALTY OWNER ISLAND CREEK COAL CO. LEASE ACREAGE 35.053.47

LEASE NO. 80662-02
 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 5900' KB
 WELL OPERATOR ASHLAND EXPLORATION, INC. DESIGNATED AGENT BOBBY E. WIDENER
 ADDRESS P.O. BOX 391 ASHLAND, KY. 41114 ADDRESS P.O. BOX 379 BRENTON, WV 24818

Deep well 66 Magnolia (265)

FORM WW-6

COUNTY NAME PERMIT

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: CROWN CONSTRUCTION Operator Well No.: ICC D45-S140561

LOCATION: Elevation: 1968.42 Quadrangle: BARNABUS

District: LEE County: MINGO
Latitude: 10200 Feet South of 37 Deg. 42 Min. 30 Sec.
Longitude: 9450 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: 05/21/92
Well work Commenced: 06/09/92
Well work Completed: 08/03/92

Verbal Plugging: _____
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5817
Fresh water depths (ft) _____
Damp 102'
Salt water depths (ft) _____
2985'

Is coal being mined in area (Y/N)? N
Coal Depths (ft): None noted

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
20"	77'	77'	Driven
16"	102'	102'	124
11 3/4"	1082'	1082'	802
8 5/8"	2651'	2651'	778
5 1/2"	5797'	5797'	597
1.9" @	5572'KB	w/ R-4 pkr @	3464
1.9" @	3421'KB		

OPEN FLOW DATA

Producing formation Dev. Shale Pay zone depth (ft) 4153-5738
Gas: Initial open flow 80 MCF/d Oil: Initial open flow --- Bbl/d
Final open flow *1008 MCF/d Final open flow --- Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock pressure 740# psig (surface pressure) after 72 Hours

Second producing formation Big Lime Pay zone depth (ft) 3299-3411
Gas: Initial open flow 60 MCF/d Oil: Initial open flow --- Bbl/d
Final open flow *149 MCF/d Final open flow --- Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock Pressure 670# 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. AUG 21 1992
By: James L. Stephens James L. Stephens, Eng. Tech.
Date: 8/12/92

<u>Formation on Rock Type</u>	<u>TOP</u>	<u>BASE</u>
Sand and Shale	0	1694
Lee formation	1694	2576
Pennington formation	2576	3164
U. Maxton	2624-2658	
M. Maxton	2901-3008	
L. Maxton	3104-3126	
Little Lime	3164	3213
Big Lime	3213	3429
Borden formation	3429	4020
Sunbury Shale	4020	4061
Berea	4061	4078
Devonian Shale	4078	5800
Onondaga Ls	5800	TD

DTD 5817

LTD 5803

11 $\frac{3}{4}$ " casing cemented to surface by grouting 50 sx after primary job.
8 $\frac{5}{8}$ " casing cemented to surface on primary job.

Well Treatment

Perf Rhinestreet 18H/5550-5738. N₂ frac using 250 gal 7 $\frac{1}{2}$ % fe acid, 805,000 scf N₂ @ 96,500 scf/min. BD @ 2530#, ATP 3400#, MTP 3460# and ISIP 2450#.

Perf Huron 22H/5012-5324. N₂ frac using 400 gal 7 $\frac{1}{2}$ % fe acid, 804,000 scf N₂ @ 98,000 scf/min. BD @ 3610#, ATP 3300#, MTP 3770# and ISIP 1900#.

Perf U. Dev. Shale 18H/4153-4544. N₂ frac using 550 gal 7 $\frac{1}{2}$ % fe acid, 800,000 scf N₂ @ 99,000 scf/min. BD @ 2830#, ATP 2700#, MTP 3140# and ISIP 1950#.

Perf Big Lime 29H/3299-3411. 65 quality foam acidize Big Lime using 500 gal 15% fe acid, 5500 gal 28% fe acid and 284,000 scf N₂ @ 8500 scf/min. BD @ 2530#, ATP 2000# @ 15 BPM foam rate, MTP 1275# and ISIP 1275#.

MAY 0 4 91

059-1164

Issued 5/21/92

Expires 5/21/94

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

Permitting Office of Oil and Gas

- 1) Well Operator: Ashland Exploration, Inc. Island Creek Coal Co.
2) Operator's Well Number: D-45, Serial #140561 3) Elevation: 1968.4
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: 5900'KB feet
7) Approximate fresh water strata depths: 1078'KB (Map WV-12)
8) Approximate salt water depths: 1328'KB (Map WV-12)
9) Approximate coal seam depths: Depth 1008', Island Creek Seam, Mined Not Pillared
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 4 columns: TYPE, SPECIFICATIONS, FOOTAGE INTERVALS, CEMENT. 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: Well Work Permit Reclamation Fund WPCP Plat WW-9 WW-2B Bond Blanket Sure Agent (Type)

Handwritten notes on the left margin.

1) Date: May 1, 1992
2) Operator's well number
Island Creek Coal D-45, Serial #140561
3) API Well No: 47 - 059 - 1164
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:	5) (a) Coal Operator:
(a) Name <u>Crown Construction & Renovation</u>	Name <u>N/A</u>
Address <u>Box 294X</u>	Address _____
<u>Delbarton, WV 25670</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Island Creek Coal Company</u>
	Address <u>P.O. Box 840</u>
(c) Name _____	<u>Holden, WV 25625</u>
Address _____	Name _____
	Address _____
6) Inspector <u>Ofie Helmick</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 218</u>	Name _____
<u>Fanrock, WV 24834</u>	Address _____
Telephone (304)- <u>732-9135</u>	

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

Subscribed and sworn before me this 1st day of May, 1992

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