

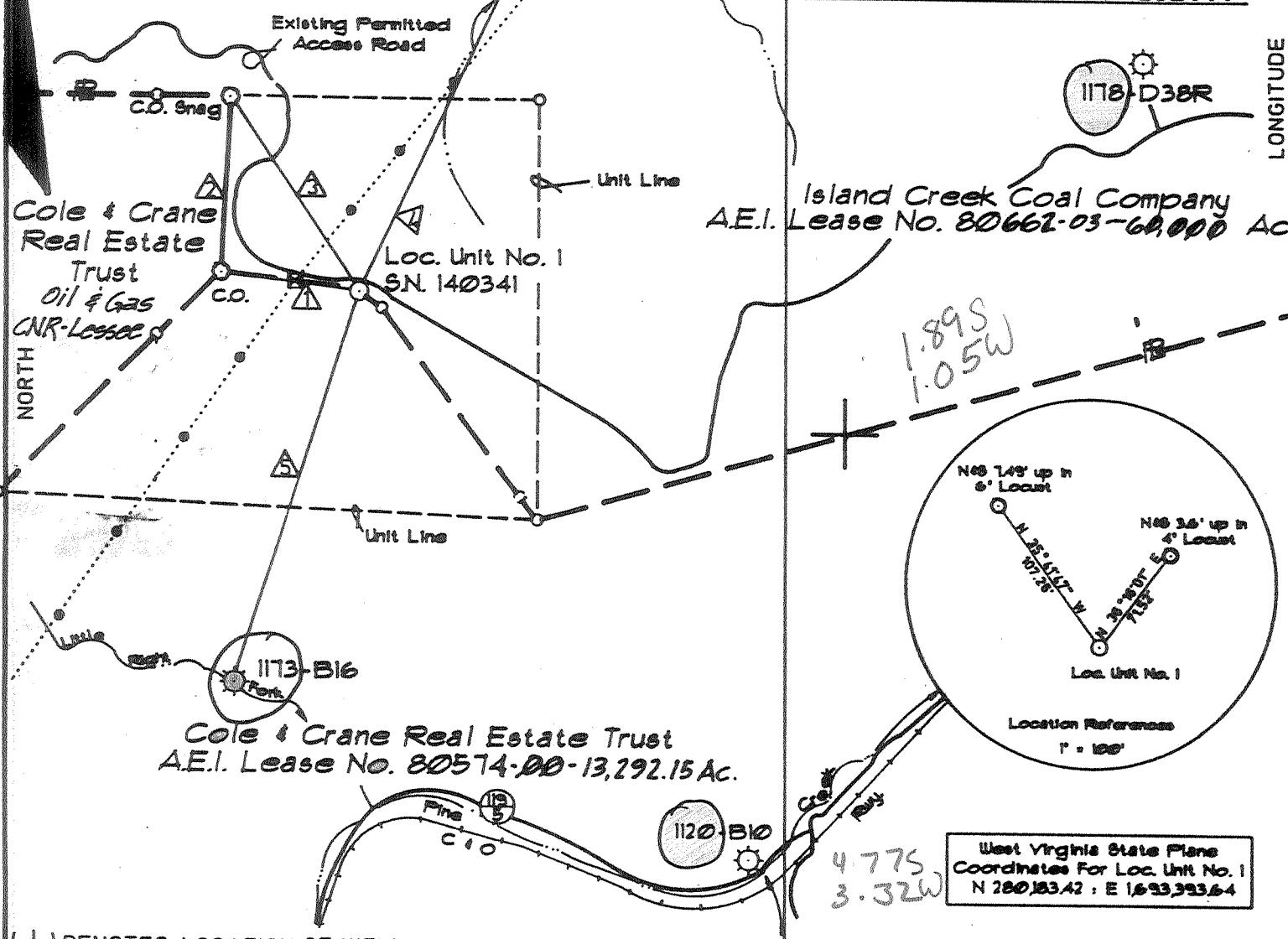
Jamie  
6/30/92

LATITUDE 37° 47' 30"

Line	Bearing	Distance
1	N 82° 58' 36" W	862.91'
2	N 03° 27' 46" E	1079.32'
3	S 33° 46' 47" E	1423.11'
4	N 25° 27' 52" E	2453.47'
5	S 17° 49' 24" W	2526.80'

LONGITUDE 82° 02' 30"

N 282000

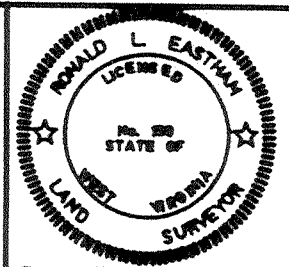


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1:130546  
 PROVEN SOURCE OF ELEVATION U.S.G.S. BM '689'  
 Elev. = 689.559

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 THE LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.

(SIGNED) Ronald L. Eastman  
 R.P.E. \_\_\_\_\_ L.L.S. 150



PLACE SEAL HERE

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

DATE April 16, 1992  
 OPERATOR'S WELL NO. Island Creek-Albert  
 API WELL NO. SN. 140341 H. Cole Unit #1 Well #1  
**47-045-1190**  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 176561 WATER SHED Little Right Fork of Pine Creek of Island Creek  
 DISTRICT Island Creek COUNTY Logan  
 QUADRANGLE Holden ± 15' SE

SURFACE OWNER Georgia-Pacific Corporation ACREAGE 7237.61 (Tr. 47)  
 OIL & GAS ROYALTY OWNER Island Creek Coal Company LEASE ACREAGE 60,000  
 LEASE NO. 80662-03

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 INFORMATION Devonian Shale ESTIMATED DEPTH 5586' KB

WELL OPERATOR Ashland Exploration, Inc. DESIGNATED AGENT Bobby E. Widener  
 ADDRESS P.O. Box 391 43 Ashland, Ky. 41114 ADDRESS P.O. Box 379 Brenton, W.V. 24818

COUNTY NAME PERMIT

099.P well 6-6 Magnolia (265)

Reviewed TMG  
Recorded \_\_\_\_\_

01-Jul-92  
API #47-045-01190

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

Well Operator's Report of Well Work

Farm name: GEORGIA PACIFIC CORP

Operator Well No.: COLE ISN140341

LOCATION: Elevation: 1765.60

Quadrangle: HOLDEN

District: ISLAND CREEK

County: LOGAN

Latitude: 9800 Feet South of 37 Deg. 47 Min. 30 Sec.

Longitude: 5500 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: 07/02/92  
Well work Commenced: 09/04/92  
Well work Completed: 02/25/93  
Verbal Plugging: \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5598  
Fresh water depths (ft) \_\_\_\_\_  
355 damp  
Salt water depths (ft) \_\_\_\_\_  
3" stream @ 2750  
Is coal being mined in area (Y/N)? N  
Coal Depths (ft): \_\_\_\_\_  
259-261, 652-654, 1040-1045

**RECEIVED**  
WV Division of  
Environmental Protection  
MAR 16 93  
Permitting  
Office of Oil & Gas

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
16"	47'	47'	11.8
11 3/4"	1112'	1112'	267
8 5/8"	2945'	2945'	981
5 1/2"	5574'	5574'	655
2 3/8"	@ 5476'		

OPEN FLOW DATA

Producing formation Dev. Shale Big Lime Pay zone depth (ft) 3982-5472  
3056-3119  
Gas: Initial open flow 60 MCF/d Oil: Initial open flow --- Bbl/d  
Final open flow 847 MCF/d Final open flow --- Bbl/d  
Time of open flow between initial and final tests 3 Hours  
Static rock pressure 650# 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.

By: James L. Stephens For: ASHLAND EXPLORATION, INC. James L. Stephens, Engineering Tech.  
Date: 3/11/93

<u>Formation or Rock Type</u>	<u>Top</u>	<u>Base</u>
Sand and Shale (base Lee Sand)	0	1702
Pennington	1702	2929
U. Maxton	2730	2800
L. Maxton	2880	2902
Little Lime	2929	2987
Big Lime	2987	3250
Borden	3250	3744
Sunbury Shale	3744	3780
Berea	3780	3802
Devonian Shale	3802	5590
Onondaga Lime	5590	T.D.

Drillers TD 5597

Loggers TD 5593

85/8 and 113/4 cmt't to surface on primary job.

Perf the L. Dev. Shale w/ SF HCG 1SPF: 5472, 5465, 5461, 5452, 5434, 5432, 5430, 5423, 5420, 5411, 5408, 5401 (12 holes total). Dumped 200 gal 8% HCl-Fe acid. N<sub>2</sub> frac'd the L. Dev. Shale w/ 811,000 scf N<sub>2</sub> @ 73,000 scf/min. BD 3943, ATP 3991, MTP 4123, ISIP 2495, 5 min 2099.

Perf the L. Huron w/ SF HCG 1SPF: 5062, 5054, 5043, 5025, 5022, 4996, 4992, 4980, 4961, 4958, 4926, 4910, 4884, 4863, 4824, 4808, 4806, 4788, 4771, 4768 (20 holes total). Set Arrow RBP @ 5105' KB. N<sub>2</sub> frac'd the L. Huron w/ 300 gal 8% HCl-Fe acid and 811,000 scf N<sub>2</sub> @ 100,000 scf/min. BD 4260, ATP 3950, MTP 4260, ISIP 2557, 5 min 1486.

Perf the U. Dev. Shale w/ SF HCG 1SPF: 4399, 4369, 4349, 4309, 4243, 4205, 4202, 4127, 4125, 4119, 4070, 4005, 3989, 3982 (14 holes total). N<sub>2</sub> frac'd the U. Dev. Shale w/ 500 gal 8.4% HCl-Fe acid and 854,000 scf N<sub>2</sub> @ 99,100 scf/min. BD 4152, ATP 3490, MTP 4152, ISIP 1911, 5 min 1309.

Perf Big Lime w/ 4" HCG 2SPF @ 2H/3160, 6H/3119-3121, 4H/3068-3069, 10H/3056-3060 (22 total shots). Acidize Big Lime using 2000 gal 30% HCl-Fe acid and 400 gals. 16% HCl-Fe acid. BD @ 2110, ATP 2300, ATR @ 16 BPM, 65Q foam, MTP 2590, ISIP 2160, TF 83.

**RECEIVED**  
 WV Division of  
 Environmental Protection  
 MAR 16 93  
 Permitting  
 of Oil & Gas

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

Expires 7/2/94

- 1) Well Operator: Ashland Exploration, Inc. 2705 (S) 401  
Island Creek-Albert H. Cole Unit 1
- 2) Operator's Well Number: 1, Serial No. 140341 3) Elevation: 1765.6
- 4) Well type: (a) Oil / or Gas /  
(b) If Gas: Production / Underground Storage /  
Deep / Shallow
- 5) Proposed Target Formation(s): Devonian Shale
- 6) Proposed Total Depth: 5586'KB feet
- 7) Approximate fresh water strata depths: 93'KB
- 8) Approximate salt water depths: 2427'KB  
Dorothy Seam - 306' - Mined Out
- 9) Approximate coal seam depths: Cedar Grove Seam - 1037' - Mined Out
- 10) Does land contain coal seams tributary to active mine? Yes / No
- 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	
Conductor	16	LS	39.61	30	30	CTS
Fresh Water						
Coal	11 3/4	H-40	42.0	1097	1097	CTS
Intermediate	8 5/8	J-55	24.0	2491	2491	CTS
Production	5 1/2	J-55	15.5	5586	5586	AS NEEDED
Tubing	1.9	J-55	2.76	-	5485	SIPHON
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 \_\_\_\_\_  Agent  
 (Type)

JUN 16 1992  
Permitting  
Office of Oil & Gas

- 1) Date: June 15, 1992
- 2) Operator's well number Serial #140341  
Island Creek-Albert H. Cole Unit 1 Well 1
- 3) API Well No: 47 - 045 - 1190  
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 Jerry Crouse, 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  
Fanrock, 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

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

Subscribed and sworn before me this 15th day of June, 1992

*Paul W. South* Notary Public  
 My commission expires November 23, 1994