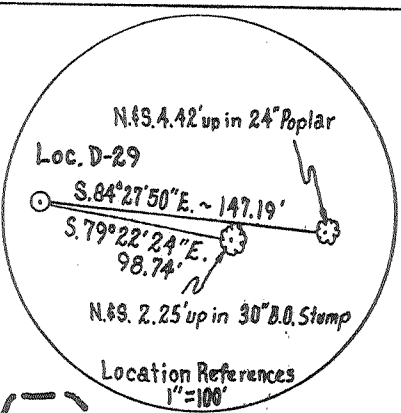
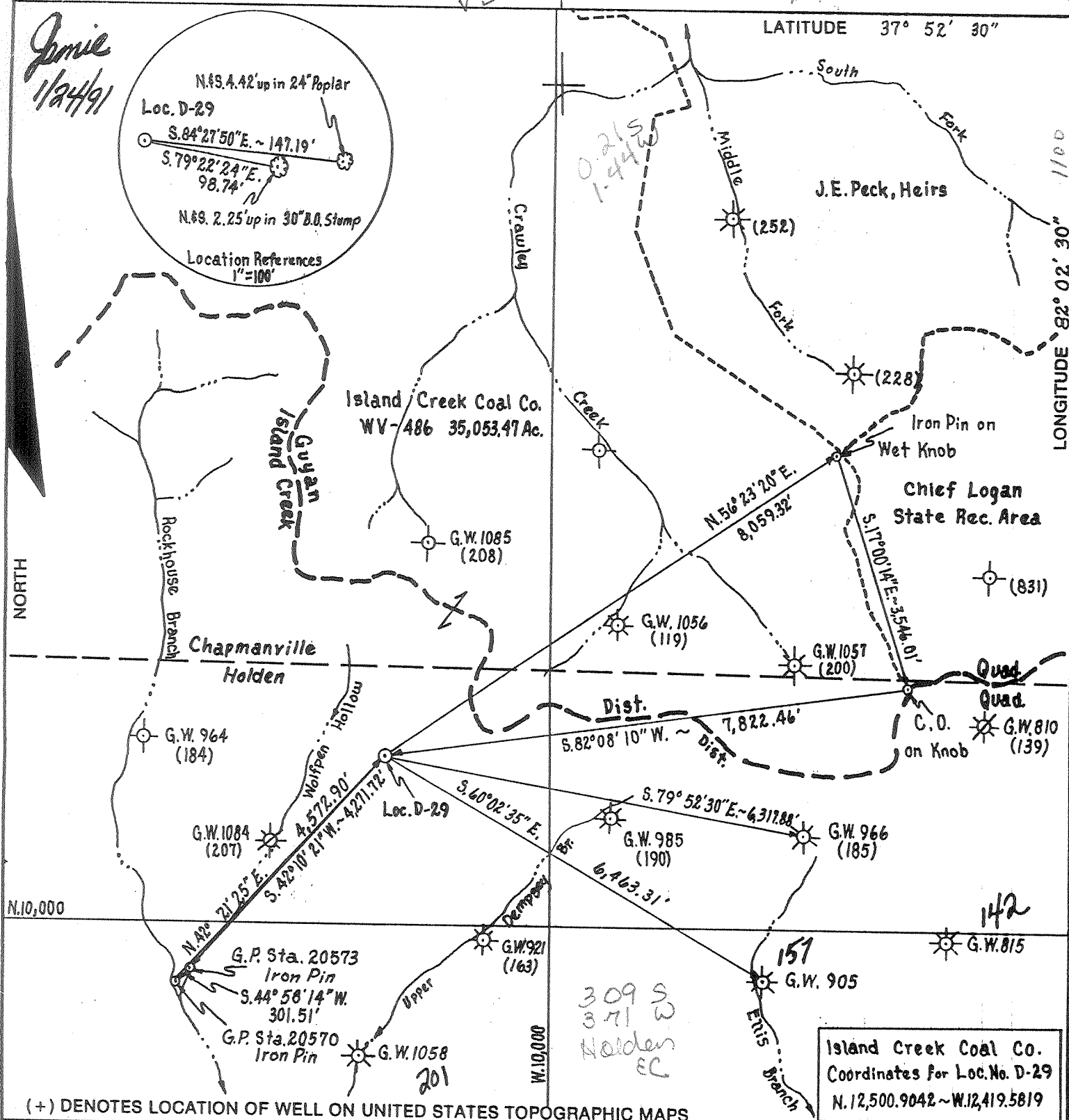


Janie
1/24/91



LATITUDE 37° 52' 30"

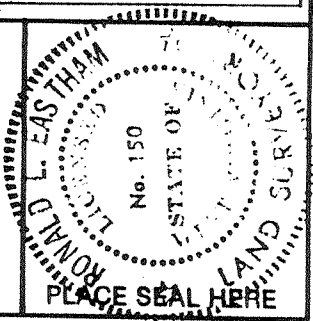
LONGITUDE 82° 02' 30"



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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1:49,429
 PROVEN SOURCE OF ELEVATION U.S.C. & G.S. Bench Mark "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 D. East
 R.P.E. _____ L.L.S. 150



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE Jan. 04, 19 91
 OPERATOR'S WELL NO. Island Creek D-29
 API WELL NO. 47-045-1156
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1417.3 WATERSHED Wolfpen Hollow of Rockhouse Branch of Mud Fork of Island Creek
 DISTRICT Island Creek COUNTY Logan
 QUADRANGLE Holden
 SURFACE OWNER Georgia-Pacific Corporation ACREAGE 8,885.70 Ac.
 OIL & GAS ROYALTY OWNER Island Creek Coal Co. LEASE ACREAGE 35,053.47
 LEASE NO. WV-486
 PROPOSED WORK: DRILL X 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 4,682' KB
 WELL OPERATOR Ashland Exploration, Inc. DESIGNATED AGENT Forrest Burkett
 ADDRESS P.O. Box 391 ADDRESS P.O. Box 379
Ashland, Ky. 41114 Logan-Holden Dingsess (274) Brenton, W.V. 24818

COUNTY NAME
 PERMIT

FORM WW-6
 H.T. HALL 49673

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

Reviewed TMG
Recorded _____

Well Operator's Report of Well Work

Farm name: GEORGIA PACIFIC CORP

Operator Well No.: D 29 S 133781

LOCATION: Elevation: 1417.30

Quadrangle: HOLDEN

District: ISLAND CREEK
Latitude: 1100 Feet South of 37
Longitude: 7610 Feet West of 82

County: LOGAN
Deg. 52 Min. 30 Sec.
Deg. 2 Min. 30 Sec.

RECEIVED
Office of Oil & Gas
Permitting
JUN 09 92
WV Division of
Environmental Protection

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

Agent: FORREST BURKETT

Inspector: TIM BENNETT

Permit Issued: 02/04/91
Well work Commenced: 03/24/92
Well work Completed: 05/21/92

Verbal Plugging: _____
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 4580
Fresh water depths (ft) _____
Damp @ 80'

Salt water depths (ft) Wet
1110' (not noted fresh or saltwater)
Is coal being mined in area (Y/N)? N
Coal Depths (ft): 356-359, 405-408

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
16"	30'	30'	11.8
11 3/4"	656'	656'	458
8 5/8"	2042'	2042'	662
5 1/2"	4576'	4576'	924
1.9" @ 1.9" @	4454' 2286'	w/ pkr @	2306' KB

OPEN FLOW DATA

Producing formation Devonian Shale/Berea Pay zone depth (ft) 2778-4498
Gas: Initial open flow -0- MCF/d Oil: Initial open flow --- Bbl/d
Final open flow 712 MCF/d Final open flow --- Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock pressure 415# psig (surface pressure) after 72 Hours

Second producing formation Big Lime Pay zone depth (ft) 2176-2248
Gas: Initial open flow 351 MCF/d Oil: Initial open flow --- Bbl/d
Final open flow 1234 MCF/d Final open flow --- Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock Pressure 415# 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: 6/4/92

JUN 16 1992

Formation on Rock Type

	<u>TOP</u>	<u>BASE</u>
Breathitt fm.	0	978
Lee fm.	978	1556
Pennington fm.	1556	1966
Little Lime	1966	2017
Big Lime	2017	2252
Borden fm.	2252	2746
Sunbury Shale	2746	2775
Berea	2775	2782
Devonian Shale	2782	4571
Onondaga Ls	4571	TD

DTD 4580

LTD 4586

8 5/8" and 11 3/4" cemented to surface on primary job.

Well Treatment

Perf Rhinestreet 20H/4290-4498. N₂ frac using 500 gal 7½% inh fe acid, 807,000 scf N₂ @ 103,000 scf/min. BD 2829#, ATP 3327#, MTP 3382# and ISIP 2129.

Perf L. Huron 20H/3774-4054. N₂ frac using 500 gal 7½% fe acid, 808,000 scf N₂ @ 100,500 scf/min. BD @ 3718#, ATP 3121#, MTP 3718# and ISIP 2065#.

Perf U. Shale/Berea 19H/2778-3100. N₂ frac using 500 gal 7½% fe acid, 806,000 scf N₂ @ 103,800 scf/min. BD @ 2427, ATP 3182#, MTP 3242 and ISIP 1886#.

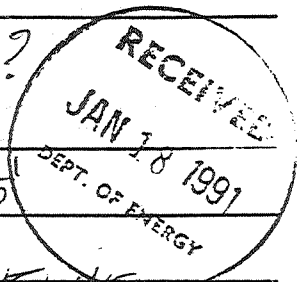
Perf Big Lime 20H/2176-2248. Foam acidize Big Lime using 500 gal 15% fe acid, 8000 gal 28% fe acid and 224,000 scf N₂ @ 7000 scf/min. BD @ 1988#, ATP 1464# @ 6.8 BPM acid rate, MTP 1988# and ISIP 1350#.

9776

Expires 02/04/93

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
 Island Creek Coal
- 2) Operator's Well Number: D-29, Serial #133781 3) Elevation: 1417.3
- 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: 4682' KB feet 405', 254', 520'?
- 7) Approximate fresh water strata depths: 592' KB (Map WV-12)
- 8) Approximate salt water depths: 777' KB (Map WV-12) 1265', 1205'
- 9) Approximate coal seam depths: Not Operated - Solid Coal
- 10) Does land contain coal seams tributary to active mine? all after less. 764'-771' 654'-656' 454-456 Yes / No /
- 11) Proposed Well Work: Drill & Stimulate New Well



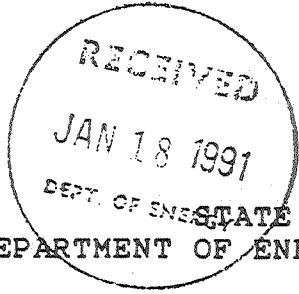
CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		
Conductor	16	LS	42.0	30	30	CTS
Fresh Water						3 1/2" CTS 14 1/2' 3
Coal						3 1/2" CTS 11' 2"
Intermediate	8 5/8	J55	24.0	2032	2032	CTS W/Lead Cl "A" (2% Gel, 3% CaCl Tail 100sx Cl "A" (3% CaCl
Production	5 1/2	J55	15.5	4682	4682	3 1/2" CTS 18-11.4 As Needed
Tubing	1.9	J55	2.76	-	4632	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 Security Blanket Agent



- 1) Date: January 16, 1991
- 2) Operator's well number Island Creek Coal Co. #D-29, Serial #133781
- 3) API Well No: 47 - 045 - 1156
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
Wyoming, WV 24898
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 6) Inspector Tim Bennett
Address Rt. 2 Box 61-B
Chapmanville, WV 25508
Telephone (304)-855-7705

- 5) (a) Coal Operator:
 - Name _____
Address _____
 - (b) Coal Owner(s) with Declaration
Name Island Creek Corp.
Address P.O. Box 840
Holden, WV 25625
Name _____
Address _____
 - (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: J. T. Mellinger *J. T. Mellinger*
 Its: Vice President
 Address P.O. Box 391
Ashland, KY 41114
 Telephone 606-329-5450

Subscribed and sworn before me this 16th day of January, 1991

Thickie W. Santa Notary Public
 My commission expires November 23, 1994