

Jamie 5/8/89

9000'

LATITUDE 37°40'00"

Permit 870



LOGAN CO.
MINGO CO.

C S X FEE

LONGITUDE 81°47'30"

(now)
ISLAND CREEK CORP., MINERAL
GEORGIA PACIFIC CORP. SURFACE

(f/y.)
Elk Creek Coal Land Co.

TR II 1354.39 AC.

D B 362 PG 298

LOCATION 24

TRIADDELPHIA DIST.
STAFFORD DIST.

Permit 504

Permit 1035

NORTH

SPICE CREEK

N 41°59'55"E - 5664.35'
N 36°00'00"E - 4516.22'

CHARLES A. HAMILL

LOC. 24

533.40' 31"E
108.29'
531.01' 14"W
159.83'

R.P.

Nail in base of 8" Locust at foot of high Wall

R.P.

Nail in base of 8" Locust near edge of strip bench

1/2" steel pin
3-Black Oak
Witness

Permit 983

Double Chestnut
Oak on Rocky Knob

Large Flat Rock

RITTER COORD AT LOC.
N 107,389.98 - W 78,892.85'

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

FILE NO. _____
DRAWING NO. _____
SCALE 1"=1000'
MINIMUM DEGREE OF
ACCURACY 1:5500'
PROVEN SOURCE OF
ELEVATION USGS BM F-162
Metal plate in north end bridge
at Verner El. 764.57'

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 RE-
GULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.

(SIGNED) E. J. Valley Jr.
R.P.E. _____ I.L.S. 92

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE APRIL 17, 1989
OPERATOR'S WELL NO. 24-Ser. 118011
API WELL NO. Elk Creek Coal Land Co.

47 - 059 - 1125
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SI ALLOW X
LOCATION: ELEVATION 1663.13 WATERSHED SPICE CREEK OF GUYAN RIVER
DISTRICT STAFFORD 6 COUNTY MINGO
QUADRANGLE MALLORY 454 0496 Gilbert Ec
SURFACE OWNER GEORGIA PACIFIC CORP. ACREAGE 7000+
OIL & GAS ROYALTY OWNER ISLAND CREEK CORP. LEASE ACREAGE 7600
LEASE NO. 5658

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 5994'
WELL OPERATOR ASHLAND EXPLORATION INC. DESIGNATED AGENT FORREST BURKETT
ADDRESS P.O. BOX 391 ASHLAND KY 41114 ANDR. SS P.O. BOX 379 BRENTON WV 24818

MAY 22 1989

DEEPWELL 66 Man-Oceana (266)

43

FORM WW-6
H.T. HALL 48673

COUNTY NAME
PERMIT

WR-35
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16-May-89
 API # 47- 59-01125

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

DIVISION OF OIL & GAS Well Operator's Report of Well Work
 DEPARTMENT OF ENERGY
 Farm name: GEORGIA-PACIFIC CORP. Operator Well No.: 24-S-118011

LOCATION: Elevation: 1663.13 Quadrangle: MALLORY

District: STAFFORD County: MINGO
 Latitude: 1900 Feet South of 37 Deg. 40Min. 0 Sec.
 Longitude 9000 Feet West of 81 Deg. 47 Min. 30 Sec.

Company: ASHLAND EXPLORATION, INC.
 P. O. BOX 391
 ASHLAND, KY 41114-0000

Agent: FORREST BURKETT

Inspector: TIM BENNETT
 Permit Issued: 05/16/89
 Well work Commenced: 6/17/89
 Well work Completed: 8/26/89
 Verbal Plugging
 Permission granted on: _____
 Rotary Cable _____ Rig
 Total Depth (feet) 6035
 Fresh water depths (ft) 45', 230'
 Salt water depths (ft) 2023'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	32'	32'	11.8
11 3/4"	393'	393'	236
8 5/8"	2057'	2057'	531
5 1/2"	6022'	6022'	685
1.9"	5849' w/ADL-1 Pkr @ 3891'		KB
1.9" @	3853'		

Is coal being mined in area (Y/N)? N
 Coal Depths (ft): Not noted during drl'g

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 4942-5918
 Gas: Initial open flow 82 MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 780 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 3 Hours
 Static rock Pressure 545 psig (surface pressure) after 72 Hours
 Berea 3844-3866
 Second producing formation Big Lime Pay zone depth (ft) 3217-3252
 Gas: Initial open flow 0 MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 1057 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 3 Hours
 Static rock Pressure 580 psig (surface pressure) after 72 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL 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 Jr James L. Stephens, Engr. Tech.
 Date: September 5, 1989

SEP 15 1989

<u>FORMATION</u>	<u>TOP</u>	<u>BASE</u>
Sand & Shale	0	1303
Lee Sand	1303.	2050
Shale	2050	2098
Ravenscliff	2098	2219
Shale	2219	2256
U. Maxton	2256	2408
Shale	2408	2504
M. Maxton	2504	2674
Sand & Shale	2674	2790
L. Maxton	2790	2826
Shale	2826	2866
Little Lime	2866	2979
Pencil Cave	2979	2988
Big Lime	2988	3274
Shale	3274	3477
Weir	3363	3477
Shale	3477	3813
Coffee Shale	3813	3837
Berea	3837	3874
Devonian Shale	3874	6021
Onondaga LS	6021	TD

DTD 6035 Mar?
LTD 6035

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WELL TREATMENT

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Perf L. Dev. Shale 24H/5786-5918^{Rh} - 75 Q foam frac L. Dev. Shale using 500 gal 7 1/2% inh. Fe acid, 1000 gal 25% treated Methanol, 98,800# 20/40 sand, 1,200,000 SCF N₂ @ 30,000 SCF/min. BD @ 2800#, ATP 3700# @ 50 bpm foam rate, MTP 4030#, ISIP 1900#, 15 min 1416# & TF 459 bbls.

Perf U. Dev. Shale 24H/4942-5357^{C.H.} - 75 Q foam frac U. Dev. Shale using 1000 gal 7 1/2% Fe inh acid, 1000 gal 25% treated Methanol, 100,000# 20/40 sand, 767,000 SCF N₂ @ 25,000 SCF/min. BD @ 2035#, ATP 2193# @ 50 bpm foam rate, MTP 2530#, ISIP 1073#, 15 min 888#, TSLF 363 bbls & TF 510 bbls.

Perf Berea Sands 45H/3844-3866 - 75 Q foam frac Berea using 500 gal 15 1/2% inh. Fe acid, 53,600# 20/40 sand & 289,000 SCF N₂ @ 8600 SCF/min. BD @ 1139#, ATP 1027# @ 25 bpm foam rate, MTP 1285#, ISIP 900#, 15 min 627# & TF 267 bbls.

Perf Big Lime 48H/3217-3252 - Break down w/500 gal 15% HCl Fe inh acid. BD @ 900#, ATP 1050# @ 6 bpm & TF 112 bbls. Swb to acid returns. Acidize Big Lime using 2000 gal 15% inh Fe acid, 2000 gal 29% Inh Fe acid. Well went on vacuum @ 3-4 bpm rate. TF 198 bbls.

EST. THK

1012	404	3874
454	813	4886
138	822	5340
231	825	5478
	830	5709

SEP 15 1989

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47-059-1125
Issued 5/16/89 Expired 5/16/91
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STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: ⁰⁰⁴³ Ashland Exploration, Inc. *2750, C, 454*
Elk Creek Coal Land Co.
- 2) Operator's Well Number: 24, Serial #118011 3) Elevation: 1663.13
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): Devonian Shale 441
- 6) Proposed Total Depth: 5994'KB feet
- 7) Approximate fresh water strata depths: 713'KB 230'
- 8) Approximate salt water depths: 2023'KB coal 116-120', 227'-231'
- 9) Approximate coal seam depths: Lower War Eagle - 640' (All Solid Coal)
Possible open Mine 53-56' Alma - 100', Eagle - 260', No. 2 Gas - 300',
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: *Drill & 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	H40	65.0	30	30	CTS
Fresh Water						
Coal						<i>38CSR 11.3</i>
Intermediate	8 5/8	J55	24.0	2073	2073	<i>38CSR 11.2</i> CTS
Production	5 1/2	J55	15.5	5994	5994	<i>38CSR 11.1</i> As Needed
Tubing	1.9	CW55	2.76	-	5944	Siphon
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

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APR 27 1989

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

506509

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond *506509* Agent

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APR 27 1989

Page 1 of 2
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: April 26, 1989
2) Operator's well number
Elk Creek Coal Land Co. #24, Serial #118011
3) API Well No: 47 - 059 - 1125
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 133 Peachtree
Atlanta, GA 30303
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Tim Bennett
Address 525 Tiller St.
Logan, WV 25601
Telephone (304)- 792-7075

5) (a) Coal Operator:
Name Island Creek Corp.
Address P.O. Box 840
Holden, WV 25625
(b) Coal Owner(s) with Declaration
Name Island Creek Corp.
Address Same as 5(a)
Name _____
Address _____
(c) Coal Lessee with Declaration
Name None
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
Its: Manager Eastern Region
Address P.O. Box 391
Ashland, KY 41114
Telephone (606) 329-5450

Subscribed and sworn before me this 26th day of April, 1989
Ticki W. Sonta
My commission expires November 23, 1990 Notary Public