

FILE NO. 64-24
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 30,144
 PROVEN SOURCE OF ELEVATION Provided by Wyoming Coal Company

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 MINES.
 (SIGNED) Rick S. Lyffe
 R.P.E. _____ L.L.S. W.V. Temp. Per. # 009
Ky. L.S. # 2823

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE November 11, 1988
 OPERATOR'S WELL NO. 231, Serial # 117271
 API WELL NO. _____
47 - 109 - 1075
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1792.4' WATER SHED Right Fork of Turkey Creek of the Guyandotte River
 DISTRICT Center 3 COUNTY Wyoming
 QUADRANGLE Matheny 463 106 4 Pineville EC
 SURFACE OWNER Jesse Seizemore ACREAGE 1.1 ac.
 OIL & GAS ROYALTY OWNER Georgia-Pacific Corporation LEASE ACREAGE 67,244.09
 LEASE NO. 4157
 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 6382 KB
 WELL OPERATOR Ashland Exploration, Inc. DESIGNATED AGENT Forrest Burkett
 ADDRESS P.O. Box 391 ADDRESS P.O. Box 379
Ashland, Kentucky 41114 43 Brenton, West Virginia 24918

JAN 20 1989

FORM WW-2B

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

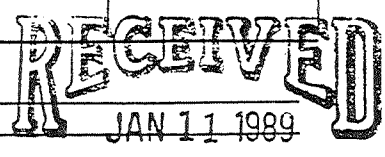
- 1) Well Operator: Ashland Exploration, Inc.
W. M. Ritter Lumber Co.
- 2) Operator's Well Number: 231, Serial #117271 3) Elevation: 1791.8'
- 4) Well type: (a) Oil / or Gas X /
(b) If Gas: Production X / Underground Storage /
Deep / Shallow X /
- 5) Proposed Target Formation(s): Devonian Shale
- 6) Proposed Total Depth: 6382'KB feet
- 7) Approximate fresh water strata depths: 777'KB *320' 480'*
- 8) Approximate salt water depths: 1247'KB *1535*
- 9) Approximate coal seam depths: 932' Poca #3 (Not Mined)
335' Sewell Seam (Mined Thickness of Seam=36")
- 10) Does land contain coal seams tributary to active mine? Yes X / No /

11) Proposed Well Work: *Drill & Simulate New Well*

12) *of Janice 1/11/89*
Revised Casing Program
CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	16	H-40	65.0	30	30	CTS
Fresh Water						} 38CSR18-11.3 } CTS 38CSR18-11.2.2
Coal	11 3/4	H-40	42.0	398	398	
Intermediate	8 5/8	J-55	24.0	1297	1297	CTS
Production	5 1/2	J-55	15.5	6382	6382	38CSR18-11.1 As Needed
Tubing	2 3/8	J-55	4.7	-	6332	Siphon
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____



For Division of Oil and Gas Use Only DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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

RECEIVED
NOV 15 1988

DIVISION OF OIL & GAS 3)
DEPARTMENT OF ENERGY

Date: November 11, 1988
Operator's well number
W. M. Ritter Lumber Co. #231, Serial #117271
API Well No: 47 - 109 - 1195
State - County - Permit

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

- | | |
|--|---|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Jesse Seizemore</u>
Address <u>P.O. Box 915</u>
<u>Pineville, WV 24874</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator: & Sublessee
Name <u>Wyomac Coal Company</u>
Address <u>P.O. Box Drawer G</u>
<u>Welch, WV 24801</u></p> <p>(b) Coal Owner(s) with Declaration
Name <u>Georgia Pacific Corp.</u>
Address <u>133 Peachtree</u>
<u>Atlanta, GA 30303</u></p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration
Name <u>Island Creek Corporation</u>
Address <u>P.O. Box 840</u>
<u>Holden, WV 25625</u></p> |
| <p>6) Inspector <u>Arthur St. Clair</u>
Address <u>P.O. Box 468</u>
<u>Brenton, WV 24818</u>
Telephone (304)- <u>732-6226</u></p> | |

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 11th day of November, 1988

Vicki W. Rosta Notary Public
My commission expires November 23, 1990

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

UOI 10 1805
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Well Operator's Report of Well Work

Farm name: SEIZEMORE, JESSE Operator Well No.: 231-S-117271

LOCATION: Elevation: 1791.80 Quadrangle: MATHENY

District: CENTER County: WYOMING
Latitude: 14180 Feet South of 37 Deg. 40Min. 0 Sec.
Longitude 6000 Feet West of 81 Deg. 32 Min. 30 Sec.

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

Agent: FORREST BURKETT

Inspector: TIM BENNETT
Permit Issued: 01/20/89
Well work Commenced: 4/22/89
Well work Completed: 10/7/89
Verbal Plugging
Permission granted on:
Rotary X Cable _____ Rig
Total Depth (feet) 6427'
Fresh water depths (ft) 320,480,592 & 777' KB
Salt water depths (ft) 1247 & 1535'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	33'	33'	11.8
11 3/4"	416'	416'	490
8 5/8"	1290'	1290'	389
5 1/2"	6368'	6368'	1135
1.9" @ 6081' KB w/ADL- Pkr @ 3238' KB			
1.9" @ 3205' KB			

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

OPEN FLOW DATA

Devonian Shale 4764-6175
Gordon 3778-3789

Producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow 0/592 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 843/155 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock Pressure 575 psig (surface pressure) after 72 Hours
Weir 3192-3200

Second producing formation Big Line Ravenscliff Pay zone depth (ft) 2908-2920
Gas: Initial open flow 592 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 330 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: 10/18/89

OCT 20 1989

FORMATION	TOP	BASE
Sand & Shale	0	728
Lee Sand	728	1256
Shales	1256	1333
Princeton	1333	1438
Shales	1438	1512
Ravenscliff	1512	1602
Shale	1602	1619
Avis LS	1619	1662
Sand & Shale	1662	1795
Upper Maxton	1795	1858
Shale	1858	1975
Stray Maxton	1975	2019
Shale	2019	2054
Middle Maxton	2054	2125
Sand & Shale	2125	2320
L. Maxton	2320	2364
Shale	2364	2436
Little Lime	2436	2520
Pencil Cave	2520	2551
Big Lime	2551	3012
Sand & Shale	3012	3226
Lower Weir	3226	3268
Shale	3268	3600
Coffee Shale	3600	3616
Berea	3616	3640
Devonian Shale	3640	6412
Gordon	3756	3795
Onondaga LS	6412	TD

DTD 6427

LTD 6430

WELL TREATMENT

Perf L. Dev. Shale 25H/5646-6175. 75 Q foam frac using 1000 gal 7 1/2% inh Fe acid, 1000 gal 25% treated Methanol, 97,800# 20/40 sand & 903,000 SCF N₂ @ 32,836 SCF/min. BD @ 3461#, ATP 3655# @ 50 bpm foam rate, MTP 3782#, ISIP 2004#, 15 min 1550# & TF 415 bbls.

Perf U. Dev. Shale 24H/4764-5212. 75 Q foam frac using 1000 gal 7 1/2% inh Fe acid, 1000 gal 25% treated Methanol, 95,000# 20/40 sand & 818,000 SCF N₂ @ 29,200 SCF/min. BD @ 2351#, ATP 2344# @ 50 bpm foam rate, MTP 2360#, ISIP 1720#, 15 min 1348#, & TF 368 bbls.

Perf Gordon 45H/3778-3789. 75 Q foam frac using 500 gal 15% inh Fe acid, 1000 gal 25% treated Methanol, 50,000# 20/40 sand & 409,000 SCF N₂ @ 11,000 SCF/min. BD @ 1300#, ATP 1174# @ 25 bpm foam rate, MTP 1325#, ISIP 934#, 15 min 877# & TF 289 bbls.

Perf Weir 32H/3192-3200 - Acidize using 1500 gal 15% inh Fe acid. Well went on vacuum. TF 110 bbls.

Perf Big Lime 36H/2908-2920 - Acidize using 2500 gal 15% inh Fe acid & 1000 gal 28% inh Fe acid. Displace w/90 bbl. treated wtr. BD @ 450#, ATP 0# @ 3 bpm rate, MTP 450#, ISIP 0# & TF 173 bbls.

Perf Ravenscliff 40H/1555-1595 - 75 Q foam frac using 500 gal 7 1/2% inh Fe acid, 1000 gal 25% treated Methanol, 60,000# 20/40 sand & 542,000 SCF N₂ @ 13,500 SCF/min. BD @ 2152#, ATP 2341# @ 25 bpm foam rate, MTP 2600#, ISIP 1836#, 15 min 1629# & TF 314 bbls.

256 via Neal

3640 UD

4800 L.H

5450 J

5550 A

5850 RH

7032