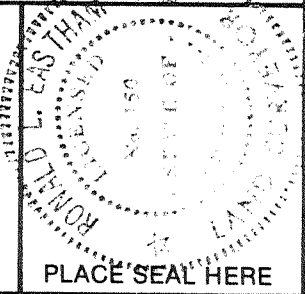


Corners:
 ① Roof Bolt, G.P. Sta. 7047 (found)
 ② Roof Bolt, G.P. Sta. 7028 (found)
 Coordinates for Ritter Loc. 241-R
 N. 92,235.63 ~ W. 5,385.20

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2,000'
 MINIMUM DEGREE OF ACCURACY 1:76,985
 PROVEN SOURCE OF ELEVATION R.R. Spike @ Intersection of Rt. 9/4 & 10/7. Elev. = 1321.0

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 L. Smith
 R.P.E. _____ L.L.S. 150



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

DATE April 9, 19 91
 OPERATOR'S WELL NO. W.M. Ritter Lumber Co.
 API WELL NO. 47-109-1210 No. 241-R, S.N. 117661
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 2129.00 WATER SHED Piney Fork of Right Fork of Turkey Creek
 DISTRICT Center 3 COUNTY Wyoming
 QUADRANGLE Pineville 15' EC

SURFACE OWNER Georgia-Pacific Corporation ACREAGE 40,000 +
 OIL & GAS ROYALTY OWNER Georgia-Pacific Corporation LEASE ACREAGE 67,244.09
 LEASE NO. 4157

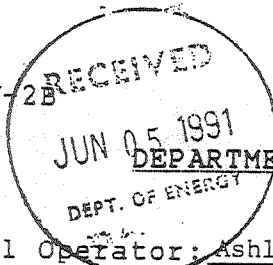
PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Devonian Shale ESTIMATED DEPTH 6614' KB
 WELL OPERATOR Ashland Exploration, Inc. DESIGNATED AGENT Forrest Burkett
 ADDRESS P.O. Box 391, Ashland, Ky. 41114 ADDRESS P.O. Box 379, Brenton, W.V. 24818

DEEP WELL 6-6 Pineville (250)

JUN 28 1991

COUNTY NAME
 PERMIT



109-1210
Issued 06/26/91

Expires 06/26/93

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

- 1) Well Operator: Ashland Exploration, Inc. 2750 (B) 548
W.M. Ritter Lumber Company
- 2) Operator's Well Number: 241-R, Serial #117661 3) Elevation: 2129.0
- 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: 6614'KB feet
- 7) Approximate fresh water strata depths: 1114'KB
- 8) Approximate salt water depths: 1539'KB
- 9) Approximate coal seam depths: Solid Coal - Not Operated (684' to Sewell Seam)
- 10) Does land contain coal seams tributary to active mine? Yes / No X /
- 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	LS	42.0	30	30	CTS
Fresh Water						38CSJ/B-11.3
Coal						38CSJ/B-11.2
Intermediate	8 5/8	J55	24.0	1609	1609	CTS
Production	5 1/2	J55	15.5	6614	6614	38CSJ/B-11.1 As Needed
Tubing	1.9	J55	2.76	-	6564	Siphon
Liners						

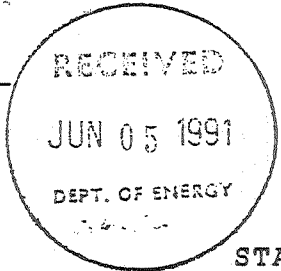
PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

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

12363

506211



1) Date: June 4, 1991
2) Operator's well number W.M. Ritter Lumber Co. #241-R, Serial #
3) API Well No: 47 - 109 - 1210
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 P.O. Box 105605
Atlanta, GA 30348
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name Robinson-Phillips
Address P.O. Drawer G
Welch, WV 24801
 - (b) Coal Owner(s) with Declaration
Name Same as No. 4(a)
Address _____
 - Name _____
Address _____
- 6) Inspector Rodney Dillon
 - Address P.O. Box 131
Sophia, WV 25818
 - Telephone (304)-877-2912
- (c) Coal Lessee with Declaration
 - Name Island Creek Corp.
Address P.O. Box 840
Holden, WV 25625

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
 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)
- 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.

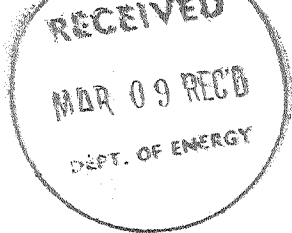
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, 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
 Its: Operations Manager
 Address P.O. Box 391
Ashland, KY 41114
 Telephone 606-329-5989

Subscribed and sworn before me this 4th day of June, 1991

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



State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas
Well Operator's Report of Well Work

Reviewed TMG
Recorded _____

Farm name: W. M. Ritter #241-R
GEORGIA-PACIFIC CO.

Operator Well No.: 241-R S-117661

LOCATION: Elevation: 2129.00
District: CENTER
Latitude: 1750 Feet South of 37
Longitude: 7900 Feet West of 80

Quadrangle: PINEVILLE
County: WYOMING
Deg. 37 Min. 30 Sec.
Deg. 52 Min. 30 Sec.

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

Agent: FORREST BURKETT

Inspector: RODNEY G. DILLON

Permit Issued: 06/26/91
Well work Commenced: 11/20/91
Well work Completed: 02/28/92
Verbal Plugging: _____
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 6780
Fresh water depths (ft) _____
Damp @ 544'
Salt water depths (ft) _____
None noted
Is coal being mined in area (Y/N)? N
Coal Depths (ft): 78-81

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
16"	46'	46'	11.8
8 5/8"	1617'	1617'	478
5 1/2"	6765'	6765'	1104
2 3/8"	@ 6395'KB		

Devonian Shale 5030-6399
Gordon 4125-4139
Weir 3607-3612

OPEN FLOW DATA
Producing formation Ravenscliff Pay zone depth (ft) 1902-1925
Gas: Initial open flow -0- MCF/d Oil: Initial open flow -0- Bbl/d
Final open flow 1468 MCF/d Final open flow -0- Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock pressure 620# 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.

For: ASHLAND EXPLORATION, INC.

By: James L. Stephens James L. Stephens, Eng. Tech.
Date: 3-6-92

Formation on Rock Type	TOP	BASE
Sand and Shale (Base Lee Fm)	0	1576
Pennington formation	1576	2768
Princeton	1661-1764	
Ravenscliff	1857-1933	
Avis Ls.	1951-1993	
M. Maxton	2398-2452	
L. Maxton	2662-2726	
Little Lime	2778	2900
Big Lime	2900	3387
Borden formation	3387	3948
L. Weir	3588-3614	
Sunbury Shale	3948	3964
Berea	3964	3986
Devonian Shale	3986	6764
Onondaga Ls	6764	TD
LTD	6773	
DTD	6780	

8 5/8" csg cemented on primary cement job to surface

Well Treatment

Perf L. Dev. Shale 20H/5978-6399. N₂ frac using 500 gal. 7 1/2% inh fe acid, 804,000 scf N₂ @ 75,500 scf/min. BD 2800#, ATP 4300#, MTP 4520#, ISIP 3200# 15 min 1830.

Perf U. Dev. Shale 24H/5030-5473. N₂ frac using 500 gal. 7 1/2% inh fe acid, 812,000 scf N₂ @ 100,000 scf/min. BD @ 3030#, ATP 3700#, MTP 3796# and ISIP 2700#.

Perf Gordon 25H/4125-4139. 75 Quality foam frac using 6800# 20/40 sand 179,000 scf N₂ @ 9945 scf/min. BD @ 1550#, ATP 1300# @ 30 BPM foam, MTP 4295, ISIP 4150 and 15 min. 3715#. Well screened out.

Perf Weir 15H/3607-3612. 75 Quality foam frac using 250 gal inh fe acid, 47,300 # 20/40 sand and 362,400 scf N₂ @ 7700 scf/min. BD @ 1580#, ATP 1200# @ 20 BPM foam rate, MTP 1580#, ISIP 1325# and TF 168 bbls.

Perf Ravenscliff 25H/1902-1925. 75 Quality foam frac using 500 gal 15% inh fe acid, 75,170 # 20/40 sand and 443,000 scf N₂ @ 13,700 scf/min. BD @ 2564#, MTP 2564#, ATP 2033# @ 30 BPM foam rate, ISIP 1563# and TF 286 bbls.

Light Formations Qualified
 & marked: weir, Ravencliff

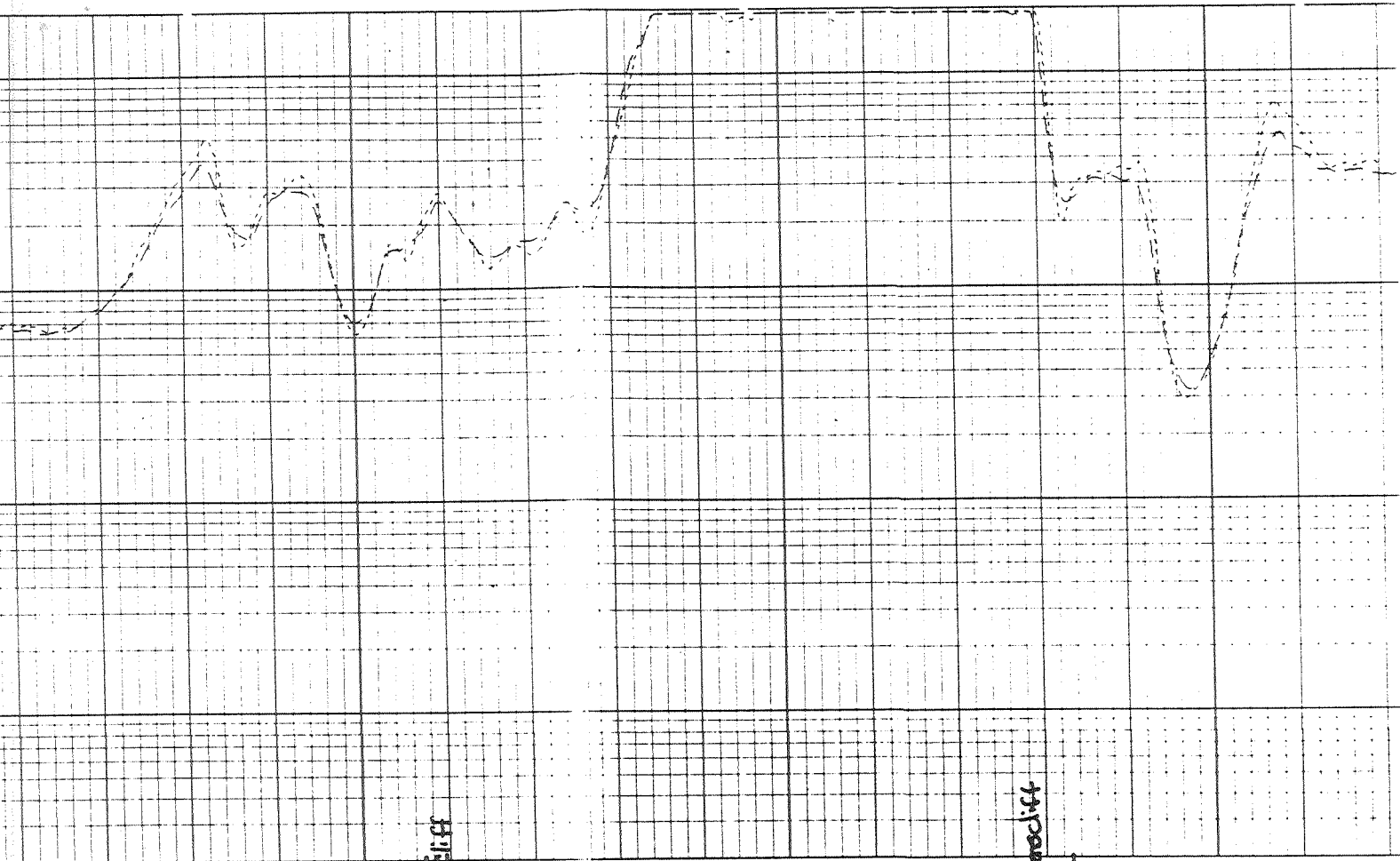
Dev Shale GRI marked

Schlumberger

DUAL INDUCTION GAMMA RAY

COUNTY FIELD LOCATION WELL COMPANY	COUNTY WYOMING FIELD PINEVILLE QUAD. LOCATION 1.750' SOUTH OF WELL W.M. RITTER LUMBER CO. NO. 241-R COMPANY ASHLAND EXPLORATION INC.		COMPANY ASHLAND EXPLORATION INC. WELL W.M. RITTER LUMBER CO. NO. 241-R FIELD PINEVILLE QUAD. COUNTY WYOMING STATE WEST VIRGINIA		
	LOCATION 1.750' SOUTH OF 37-37-30 7.900' WEST OF 81-32-30		Other Services: LDT TEMP		
	API SERIAL NO. 47-109-1210	SECT. -	TWP. -	RANGE -	
	Permanent Datum GROUND LEVEL Elev. 2129.0 F Log Measured From KELLY BUSHING 100 F above Perm. Datum Drilling Measured From KELLY BUSHING	Elev. 2129.0 F above Perm. Datum		Elev.: K.B.2139.0 F D.F.2138.0 F G.L.2129.0 F	
Date	DEC. 4, 1991				
Run No.	ONE				
Depth Driller	6780.0 F				
Depth Logger (Schl.)	6773.0 F				
Btm. Log Interval	6767.0 F				
Top Log Interval	1614.0 F				
Casing-Driller	8 5/8" (w) 1617.0 F	(w)	(w)	(w)	
Casing-Logger	1614.0 F				
Bit Size	7 7/8" (w)	(w)	(w)	(w)	
Type Fluid in Hole	AIR / GAS				
Dens.	Visc.				
pH	Fld. Loss				
Source of Sample					
Rm @ Meas. Temp.	(w)	(w)	(w)	(w)	
Rmf @ Meas. Temp.	(w)	(w)	(w)	(w)	
Rmc @ Meas. Temp.	(w)	(w)	(w)	(w)	
Source: Rmf	Rmc				
Rm @ BHT	(w) 131. DEGF	(w)	(w)	(w)	
TIME	Circulation Ended	02:00. DEC. 4			
	Logger on Bottom	12:40. DEC. 4			
Max. Rec. Temp.	131. DEGF				
Equip.	Location	8507	FAIRMONT WV		
Recorded By	DAVE RAPP				
Witnessed By	STEWART RHOADES				

The well name, location and borehole reference data were furnished by the customer



Top of Ravenscliff
1857

1900

Base of Ravenscliff
1935

