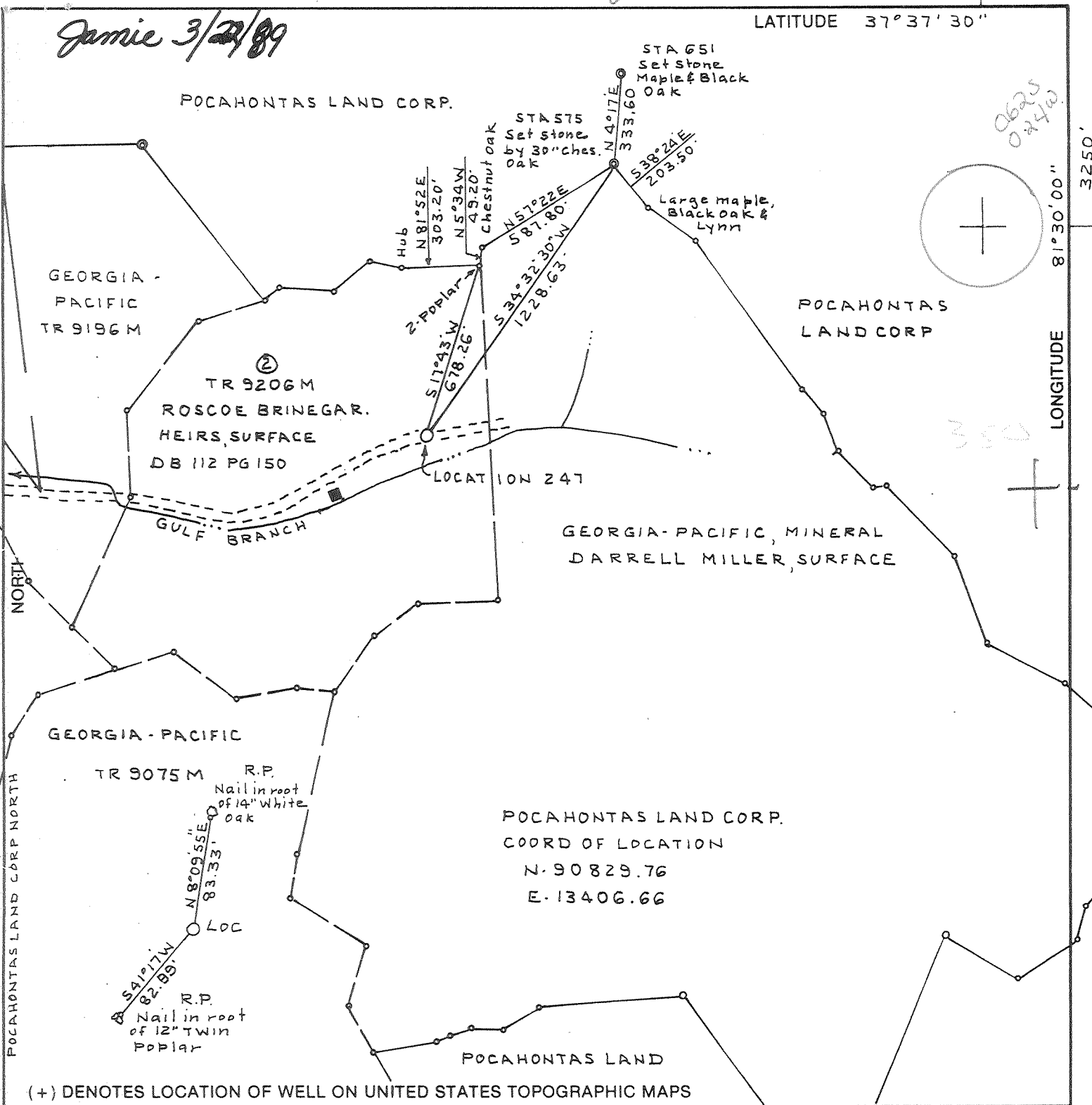


Jamie 3/2/89

LATITUDE 37° 37' 30"



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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:5500'
 PROVEN SOURCE OF ELEVATION USGS TOP knob
 2350' ± NE of location
 EL. 2278

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) C. J. Salley Jr.
 R.P.E. _____ D.S. 92

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE FEB 17, 1989
 OPERATOR'S WELL NO. RITTER 247
 API WELL NO. Serial No. 117721

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

LOCATION: ELEVATION 1958.28 WATERSHED GULF BRANCH OF ROCKCASTLE CREEK
 DISTRICT CENTER COUNTY WYOMING
 QUADRANGLE PINEVILLE 549 1066 415' EC

SURFACE OWNER ROSCOE BRINEGAR, HEIRS ACREAGE 40.40
 OIL & GAS ROYALTY OWNER GEORGIA-PACIFIC 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 6793 KB
 WELL OPERATOR ASHLAND EXPLORATION INC. DESIGNATED AGENT FORREST BURKETT
 ADDRESS P.O. BOX 391, ASHLAND KY, 41114 ADDRESS P.O. BOX 379, BRENTON WV, 24818

MAR 31 1989

DEEP WELL G-6 McGreedy (250)

FORM WW-6

COUNTY NAME PERMIT

29

109-1085
 Issued 3/29/89 Expires 3/29/91
 Page 1 of 1

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

2750, 3, 548

- 1) Well Operator: Ashland Exploration, Inc.
 W. M. Ritter Lumber Co.
- 2) Operator's Well Number: 247, Serial #117721 3) Elevation: 1958.28
- 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: 6793'KB feet
- 7) Approximate fresh water strata depths: 918'KB 853', 86, 114'
- 8) Approximate salt water depths: 1343'KB 1196
- 9) Approximate coal seam depths: None Operated 456'-459' 853'-856'
- 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						38CSR18-11.3 38CSR18-11.2.5
Coal						
Intermediate	8 5/8	J55	24.0	1393	1393	CTS
Production	5 1/2	J55	15.5	6793	6793	← 38CSR18-11.1 As Needed
Tubing	1.9	CW55	2.46	-	6743	Siphon
Liners						

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PACKERS : Kind _____
 Sizes _____
 Depths set _____

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond 50 Blanket Agent

(Type)

506526

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: March 9, 1989
Operator's well number
W. M. Ritter Lumber Co. #247, Serial #117721
API Well No: 47 - 109 - 1085
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 Roscoe Brinegar Heirs
Address Box 835
Pineville, WV 24874
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Rodney Dillon
Address P.O. Box 1526
Sophia, WV 25921
Telephone (304)- 683-3989

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration
Name Georgia-Pacific Corp.
Address 133 Peachtree
Atlanta, GA 30303
Name _____
Address _____
(c) Coal Lessee with Declaration
Name Consol Land Development Company
Address P.O. Box 1289
Bluefield, VA 24605

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 9th day of March, 1989

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

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

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
Well Operator's Report of Well Work

Farm name: BRINEGAR, ROSCOE HEIRS Operator Well No.: 247-S-117721

LOCATION: Elevation: 1958.28 Quadrangle: PINEVILLE

District: CENTER County: WYOMING
Latitude: 3250 Feet South of 37 Deg. 37Min. 30 Sec.
Longitude 1300 Feet West of 81 Deg. 30 Min. 0 Sec.

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	33'	33'	17.7
11 3/4"	226'	226'	177
8 5/8"	1348'	1348'	413
5 1/2"	6595'	6595'	787
2 3/8"	6316' KB		

Agent: FORREST BURKETT

Inspector: RODNEY G. DILLON
Permit Issued: 03/29/89
Well work Commenced: 07/25/89
Well work Completed: 12/07/89
Verbal Plugging _____
Permission granted on: _____
Rotary x Cable _____ Rig _____
Total Depth (feet) 6635'
Fresh water depths (ft) 3" stream @ 89,
114,853, damp @ 945'
Salt water depths (ft) approx. 1196'

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

OPEN FLOW DATA

Devonian Shale 5190-6422
Producing formation Gordon Pay zone depth (ft) 3989-4000
Gas: Initial open flow 84 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 1468 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock Pressure 635 psig (surface pressure) after 72 Hours

Second producing formation _____ 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 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 J. L. Stephens, Engineering Tech
Date: December 12, 1989

DEC 22 1989

DEC 22 1989

<u>FORMATION</u>	<u>TOP</u>	<u>BASE</u>
Sand & Shale	0	685
Lower Lee Sand	685	1347
Shales	1347	1577
Ravenscliff	1577	1633
Shales	1633	1688
Avis LS	1688	1730
Sand & Shales	1730	2484
Lower Maxton	2484	2537
Shale	2537	2600
Little Lime	2600	2688
Pencil Cave	2688	2722
Big Lime	2722	3165
Sand & Shales	3165	3458
Lower Weir	3458	3496
Shales	3496	3830
Coffee Shale	3830	3849
Berea	3849	3866
Devonian Shale	3866	6616
Gordon SS	3975	4024
Onondaga LS	6616	TD

DTD 6635
LTD 6634

WELL TREATMENT

^{rh}
Perf L. Dev. Shale 25H/5992-6422. 75 Q foam frac using 1000 gal 15% inh Fe acid, 1000 gal 25% treated Methanol, 92,445# 20/40 sand & 1,073,000 SCF N₂ @ 47,000 SCF/min. BD @ 3120#, ATP 2593# @ 50 bpm foam rate, MTP 4281#, ISIP 1078#, 15 min 639#, & TF 394 bbls.

^{LH}
Perf U. Dev. Shale 24H/5190-5615. 75 Q foam frac using 1000 gal 8% fe inh acid, 1000 gal 25% treated Methanol, 96,273# 20/40 sand & 803,000 SCF N₂ @ 29,700 SCF/min. BD @ 2190#, ATP 2313# @ 50 bpm foam rate, MTP 2619#, ISIP 2000#, 15 min 1390# & TF 409 bbls.

Perf Gordon 25H/3989-4000. 75 Q foam frac using 500 gal 15% inh fe acid, 1000 gal 25% treated Methanol, 54,860# 20/40 sand & 315,000 SCF N₂ @ 10,000 SCF/min. BD @ 1300#, ATP 1245# @ 25 bpm foam rate, MTP 1406#, ISIP 1025#, 15 min 843# & TF 243 bbls.

OD 3866

LH 3016

J 3650

A 3800

Rh 6100

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DEPARTMENT OF ENERGY