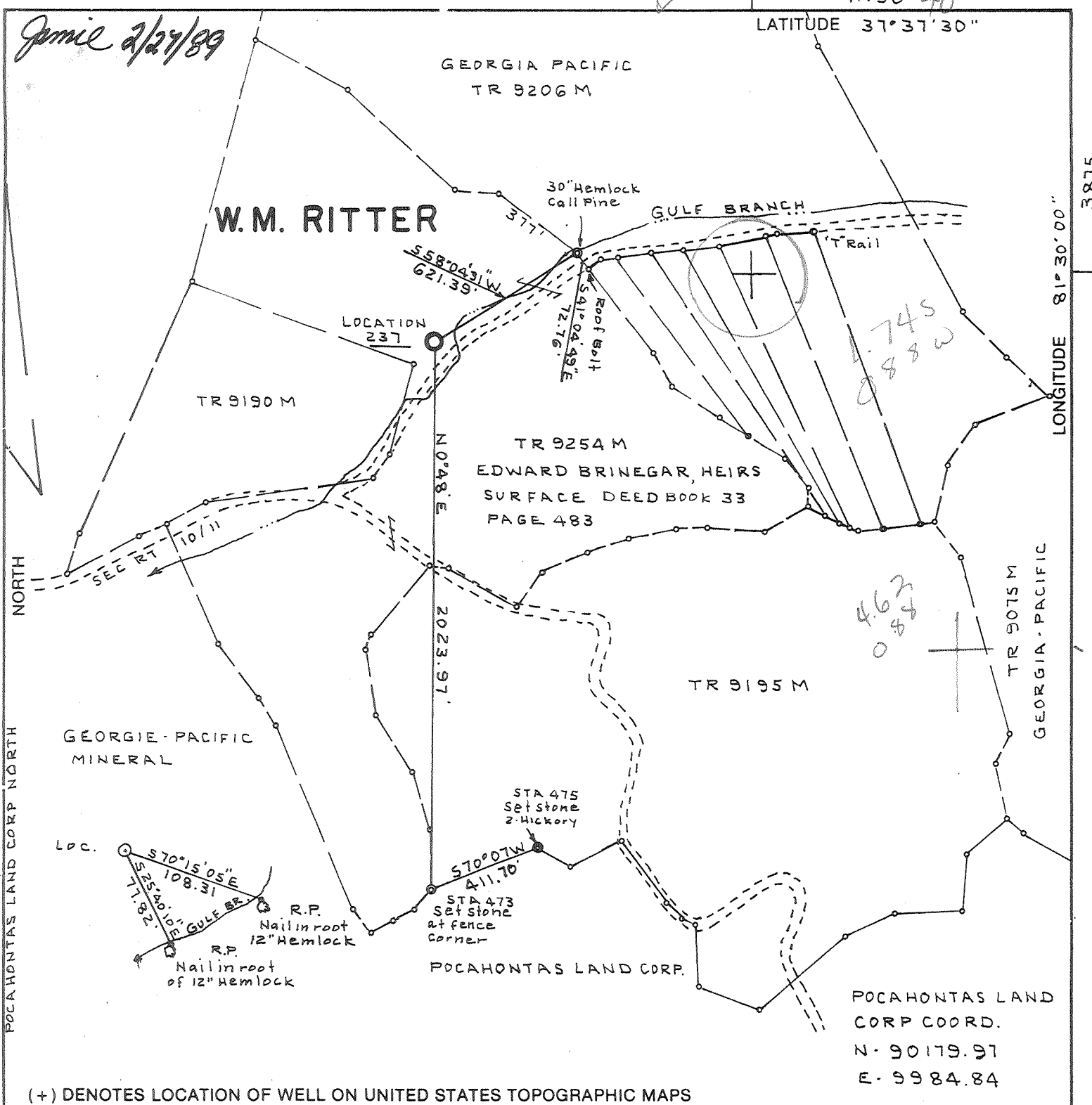


Janie 2/27/89

4750.40

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 TOP Knob 5000' N.E. 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. Volley Jr.
 R.F.E. _____ L.L.S. 92 _____

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE FEB 17, 1989
 OPERATOR'S WELL NO. 237, Serial # 117621
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1817.25' WATERSHED GULF BRANCH OF ROCKCASTLE CREEK
 DISTRICT CENTER 3 COUNTY WYOMING
 QUADRANGLE PINEVILLE 549 1066 + 15' EC
 SURFACE OWNER EDWARD BRINEGAR HEIRS ACREAGE 30
 OIL & GAS ROYALTY OWNER GEORGIA - PACIFIC LEASE ACREAGE 67244.09
 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) _____

MAR 17 1989

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION WEIR ESTIMATED DEPTH 3317 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

FORM WW-6 48673 H.T. HALL

COUNTY NAME PERMIT

DEEP WELL 6-6 Pineville

(250)

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

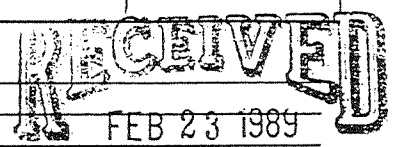
2750, 3, 548

- 1) Well Operator: Ashland Exploration, Inc.
 W. M. Ritter Lumber Co.
- 2) Operator's Well Number: 237, Serial #117621 3) Elevation: 1817.25
- 4) Well type: (a) Oil or Gas
 (b) If Gas: Production Underground Storage
 Deep Shallow
- 5) Proposed Target Formation(s): Weir
- 6) Proposed Total Depth: 3317'KB feet
- 7) Approximate fresh water strata depths: 782'KB 712', 300'
- 8) Approximate salt water depths: 1187'KB 1195', 844'-953'
- 9) Approximate coal seam depths: Coal Seams Not Operated 315'-319', 712'-715'
- 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	Fill-up (cu. ft.)
Conductor	12 3/4	LS	42.0	30	30	CTS
Fresh Water						
Coal						38CSR18-11.3 38CSR18-11.2.2
Intermediate	8 5/8	J55	24.0	1237	1237	CTS
Production	4 1/2	J55	10.5	3317	3317	← 38CSR18-11.1 As Needed
Tubing	2 3/8	J55	4.7	-	3267	Siphon
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____



4554
 500509

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 50 Blanket Agent

(Type)

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FEB 23 1989

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: February 22, 1989
Operator's well number
W. M. Ritter Lumber Co. #237, Serial #117621
API Well No: 47 - 109 - 1079
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>Edward Brinegar Heirs</u>
Address <u>Gulf Branch</u>
<u>Pineville, WV 24874</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>None</u>
Address _____</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>6) Inspector <u>Tim Bennett</u>
Address <u>525 Tiller St.</u>
<u>Logan, WV 25601</u>
Telephone (304)- <u>792-7075</u></p> | <p>(c) Coal Lessee with Declaration
Name <u>Consol Land Development Co.</u>
Address <u>P.O. Box 1289</u>
<u>Bluefield, VA 24605</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.
 ZSF 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 22nd day of February, 1989

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

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AUG 16 1989

API #. 47-109-01079

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, EDWARD HEIRS Operator Well No.: 237-S-117621

LOCATION: Elevation: 1817.25 Quadrangle: PINEVILLE

District: CENTER County: WYOMING
Latitude: 3875 Feet South of 37 Deg. 37Min. 30 Sec.
Longitude 4750 Feet West of 81 Deg. 30 Min. 0 Sec.

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

Agent: FORREST BURKETT

Inspector: RODNEY G. DILLON
Permit Issued: 03/13/89
Well work Commenced: 05/04/89
Well work Completed: 08/01/89
Verbal Plugging
Permission granted on: _____
Rotary x Cable _____ Rig
Total Depth (feet) 6529
Fresh water depths (ft) 7" Strm Wtr
@ 79' 300,712,782
Salt water depths (ft) 1195'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	31'	31'	18 Cu.Ft.
11 3/4"	262'	262'	236
8 5/8"	1230'	1230'	372
5 1/2"	6486	6486	1190
1.9" tbg w/ADL-1 PKR	@	6148'	
1.9" tbg	@	2918'	

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

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 50H/4894-6274
 Gas: Initial open flow 103/162 MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 428/127 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 3 Hours
 Static rock Pressure 700# psig (surface pressure) after 72 Hours

Big Lime
 Second producing formation Ravenscliff Pay zone depth (ft) 48H/2669-2926
 Gas: Initial open flow 59 MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 843 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 3 Hours
 Static rock Pressure 290# 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.

AUG 25 1989

By: James L Stephens Jr
Jim Stephens, Engineering Tech.
Date: 8/14/89

FORMATION	TOP	BASE
Sand & Shale	Surf	624
Lee sand	624	1225
Shale	1225	1344
Ravenscliff	1344	1474
Shale	1474	1538
Avis LS	1538	1581
Sand & Shale	1581	2317
Lo. Maxton	2317	2369
Shale	2369	2436
L. Lime	2436	2519
Pencil Cave	2519	2560
Big Lime	2560	3006
Sand & Shale	3006	3273
Lo. Weir	3273	3306
Shale	3306	3662
Coffee Shale	3662	3679
Berea	3679	3698
Devonian Shale	3698	3805
Gordon Sands	3805	3854
Devonian Shales	3854	6434
Marcellus Shale	6434	6508
Onondaga LS	6508	TD

DTD:6529' LTD:6527'

Perf Lower Devonian Shale ^{Rh} 25H/5846-6274. 75 Q foam frac L. Dev. Shale using 1000 gal. 7½% Fe HCL, 1000 gal. 25% Methanol, 97,500# 20/40 sand & 919,000 SCF N₂ @ 33,500 SCF/M. BD @ 3749#, ATP 3848# @ 50 BPM foam rate, MTP 4060#, ISIP 1902#, 15MIN 1764# & TF 534bbls.

Perf U. Devonian Shale ^{LH} 25H/4894-5436. 75 Q foam frac U. Dev. Shale using 1000 gal. 7½% Fe HCL, 1000 gal. 25% treated methanol, 100,000# 20/40 sand & 941,00 SCF N₂ @ 29,200 SCF/M. BD @ 2889#, ATP 2761# @ 50 BPM foam rate, MTP 3482#, ISIP 1602#, 15 MIN 1387#, & TF 529 bbls.

Perf Big Lime 48H/ 2669-2926. Gelled acid job on Big Lime using 1000 gal. 15% inh fe acid for breakdown, 6000 gal. 20% SGA acid, 6000 gal. 40#/gal. ge' system, 173,000 SCF N₂ @ 3000 SCF/ MIN. BD @ 475#, ATP 998# @ 10 bpm acid rate, MTP 1576# , ISIP 1514#, 15 MIN 1465#, TF 390 bbls. Let acid spent 3 Hrs.

Perf Ravenscliff 28H/1474-1481. 75Q foam frac Ravenscliff using 500 gal. 17% Fe inh acid, 50,000 20/40# sand, 570,000 SCF N₂ @11,000 SCF/MIN. BD @ 2190#, ATP 2097# @ 21 b/M, MTP 2200#, ISIP 1727#, 15 MIN. 1530#, TSLF 267 bbls., & TF 335 bbls.

3698 UD
 4850 LH
 5500 J
 5600 A
 5900 Rh

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 DEPARTMENT OF ENERGY

AUG 25 1989

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