

Jamie
4/25/91

9,400

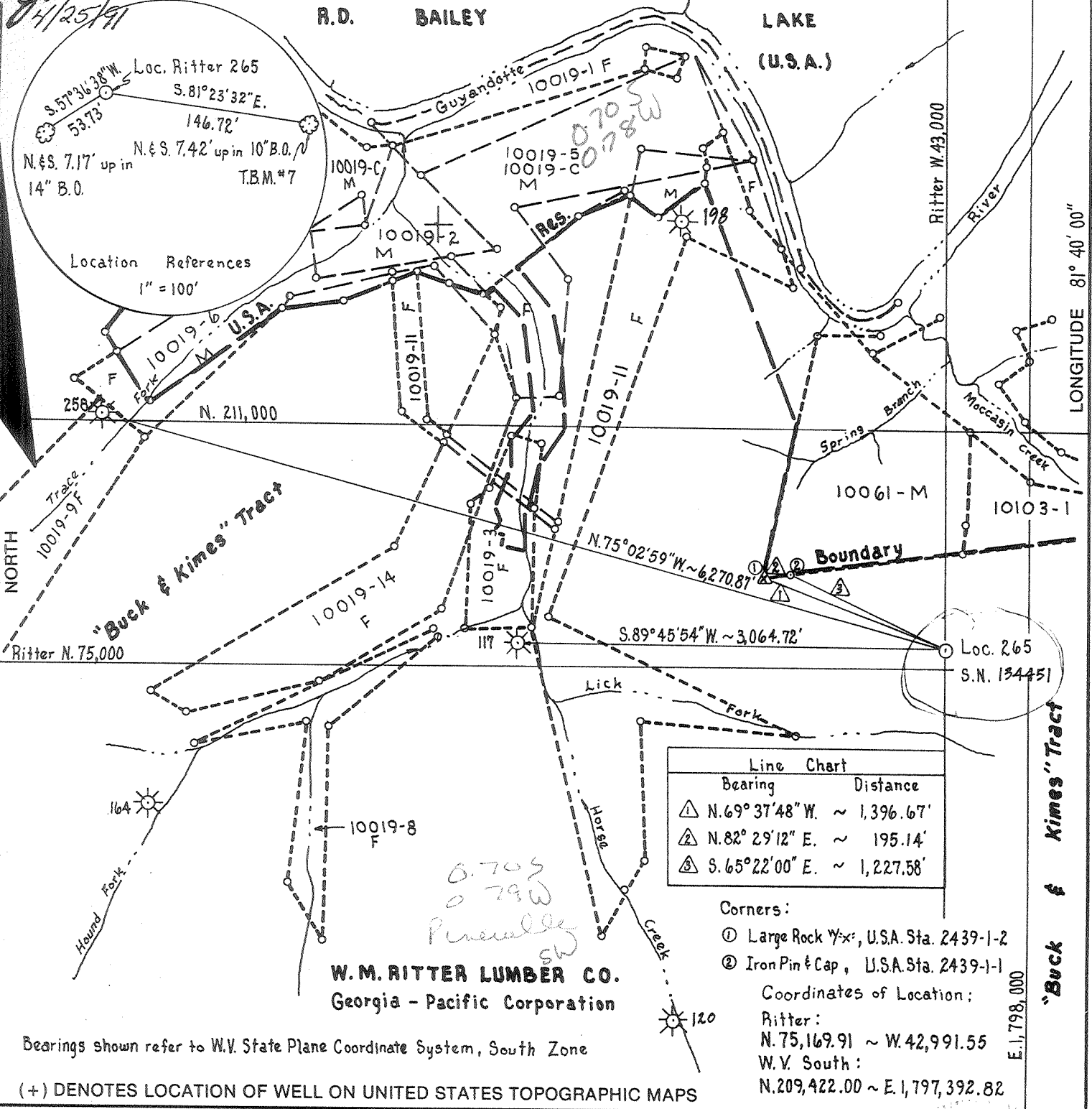
LATITUDE 37° 35' 00"

R.D. BAILEY

LAKE
(U.S.A.)

3,700'

LONGITUDE 81° 40' 00"



FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1,000'
MINIMUM DEGREE OF ACCURACY 1:42,211
PROVEN SOURCE OF ELEVATION U.S.C.E. B.M. "SR-17L"
Elev. = 1151.07

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

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE March 5, 19 91
OPERATOR'S WELL NO. W.M. Ritter Lumber Co.
API WELL NO. No. 265, S.N. 134451

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

LOCATION: ELEVATION 1,758.98 WATER SHED Lick Fork of Horse Creek of Guyandotte River
DISTRICT Baileysville COUNTY Wyoming

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

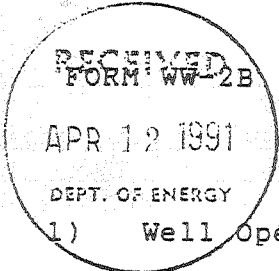
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION Devonian Shale ESTIMATED DEPTH 6379' 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

COUNTY NAME
PERMIT

MAY 6 1991

DEEP WELL 66 Baileysville (272)



109-1205
Issued 04/29/91
Page ___ of ___
Expires 04/29/93

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

- 1) Well Operator: Ashland Exploration, Inc. 2750 (1) 228
- 2) Operator's Well Number: W.M. Ritter Lumber Co. 265 3) Elevation: 1,758.98
- 4) Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production ___ / Underground Storage ___ /
Deep ___ / Shallow X /
- 5) Proposed Target Formation(s): Devonian Shale 441
- 6) Proposed Total Depth: 6379' KB feet
- 7) Approximate fresh water strata depths: 744' KB (map WV-12) 643'
- 8) Approximate salt water depths: 1189 KB (map WV-12)
- 9) Approximate coal seam depths: solid coal - not operated 1041'-1044', 1220'
- 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

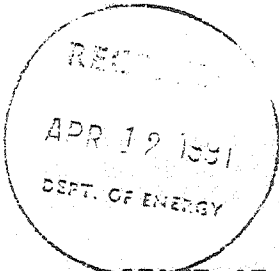
TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	16"	LS	42.0	30	30 - 10	CTS
Fresh Water						38 CSR 11-2
Coal						38 CSR 11-2
Intermediate	8 5/8"	J55	24.0	1324	1824	CTS
Production	5 1/2"	J55	15.5	6379	6379	As needed
Tubing	1.9"	J55	2.76	---	6329	38 CSR 11-1 siphon
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

506161

For Division of Oil and Gas, Use Only

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



1) Date: March 26, 1991
2) Operator's well number
W. M. Ritter Lumber Co. #265, Serial #134451
3) API Well No: 47 - 109 - 1205
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 Jerry Crouse
Wyoming, WV 24898
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
Name N/A
Address _____
- (b) Coal Owner(s) with Declaration
Name Georgia-Pacific Corp.
Address Jerry Crouse
Wyoming, WV 24898
Name _____
Address _____
- 6) Inspector Rodney Dillon
Address P. O. Box 131
Bradley, WV 25818
Telephone (304)-877-2912
- (c) Coal Lessee with Declaration
Name N/A
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 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: W. Mark Parks *W. Mark Parks*
Its: Operations Manager
Address P. O. Box 391
Ashland, KY 41114
Telephone 606-329-5989

Subscribed and sworn before me this 27th day of March, 1991

Suzette S. Hubbard
My commission expires 4-27-93 Notary Public

SEP 30 1991
DEPT. OF ENERGY

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

Reviewed TMG
Recorded _____

Well Operator's Report of Well Work

Farm name: GEROGIA-PACIFIC CORP Operator Well No.: RITTER 265

LOCATION: Elevation: 1758.98 Quadrangle: BAILEYSVILLE

District: BAILEYSVILLE County: WYOMING
Latitude: 3700 Feet South of 37 Deg. 35Min. 0 Sec.
Longitude 9400 Feet West of 81 Deg. 40 Min. 0 Sec.

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

Agent: FORREST BURKETT

Inspector: RODNEY G. DILLON
Permit Issued: 04/29/91
Well work Commenced: 07/20/91
Well work Completed: 09-06-91
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 6368
Fresh water depths (ft) 418'

Salt water depths (ft) Approximate
1189'

Is coal being mined in area (Y/N)? N
Coal Depths (ft): None noted

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
16"	40'	40	11.8
8 5/8"	1890	1890	764
5 1/2"	6346	6346	1147
1.9" @ 6160' KB w/ ADL-1 PKR @ 4064			
1.9" @ 4025' KB			

RECEIVED

OCT 22 91

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 4184-5600
 Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 377/135 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 3 Hours
 Static rock Pressure 450# psig (surface pressure) after 72 Hours
 Second producing formation Berea Pay zone depth (ft) 4020-4032
Big Lime Ravenscliff 2983-2993
 Gas: Initial open flow 2630 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 977 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 3 Hours
 Static rock Pressure 270# 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 James L. Stephens, Engr. Tec.
Date: September 25, 1991

OCT 27 1991

<u>Formation or Rock Type:</u>	<u>Top</u>	<u>Base</u>
Breathitt Formation	0	713
Lee Formation	713	1897
Pennington Formation	1897	2863
Ravenscliff	2034-2096	
Avis Lime	2096-2144	
Stray Maxton	2205-2323	
U. Maxton	2385-2449	
M. Maxton	2510-2590	
L. Maxton	2756-2815	
Little Lime	2863	2974
Big Lime	2974	3411
Borden Formation	3411	3969
Sunbury	3969	3991
Berea	3991	4036
Devonian Shale	4036	6349
Onondaga LS	6349	TD

LTD 6363

DDTD 6368

map 257

Well Treatment:

Perf Rhinestreet 20H/5868-6278. N₂ frac using 500 gal fe inh acid, 774,500 SCF N₂ @ 90,000 SCF/min. BD @ 2450#, ATP @ 2950#, MTP 3150#, ISIP 2700# & 15 min 1760#.

Perf L. Huron 18H/5374-5600. N₂ frac using 500 gal 7 1/2% fe inh acid, 829,265 SCF N₂ @ 99,000 SCF/min. BD 2800#, ATP 3100#, MTP 3190#, ISIP 2900#.

Perf U. Huron 17H/4920-5164. N₂ frac using 500 gal 7 1/2% fe inh acid, 784,200 SCF N₂ @ 99,000 SCF/min. BD 3000#, ATP 3500#, MTP 3890#, ISIP 2800#.

Perf Chagrin 18H/4184-4571. N₂ frac using 500 gal 7 1/2% fe inh acid, 861,400 SCF N₂ @ 99,000 SCF/min. BD 1760#, ATP 2650#, MTP 2810#, ISIP 2250#, 15 min 1580.

Perf Berea 25H/ 4020-4032. 75 quality foam frac using 250 gal 17% HCl acid, 549,000 SCF N₂ @ 12,500 SCF/min & 60,000# 20/40 sand. BD @ 1431# , MTP 1646#, ATP 1597#, ISIP 1368#.

Perf Big Lime 8H/2983-2993. Foam acidize using 98,000 SCF N₂ @ 6200 SCF/min, 1250 gal 16% fe inh acid. BD @ 1332, ATP 1237 @ 8 BPM, MTP 1850#, ISIP 902#.

Perf Ravenscliff 25H/2060-2085. 75 quality foam frac using 500 gal 15% inh fe acid, 60,000# 20/40 sand, 760,000 SCF N₂ @ 18m800 SCF/min. BD @ 3290#, ATP 2600# @ 30 BPM foam rate, MTP 3290#, ISIP 2050# & TF 331 bbls.

12/1/6