

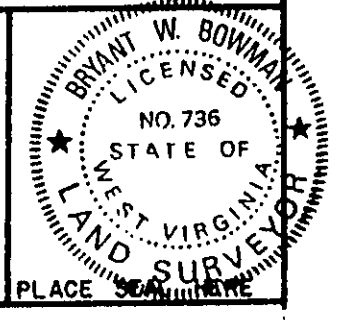
A. N38°31'30\"/>

COORDINATES
13702140
-64820.445

NO KNOWN WATER WELLS WITHIN 1000'

FILE NO. _____
DRAWING NO. _____
SCALE 1\"/>

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) Bryant W. Bowman
R. P. E. _____ L. L. S. 736



WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
#10 McJUNKIN ROAD
NITRO, WEST VIRGINIA 25143-2506



DATE MAY 14, 19 97
OPERATOR'S WELL NO. 7C-287
API WELL NO. 47-109 01055-CP
STATE COUNTY PERMIT

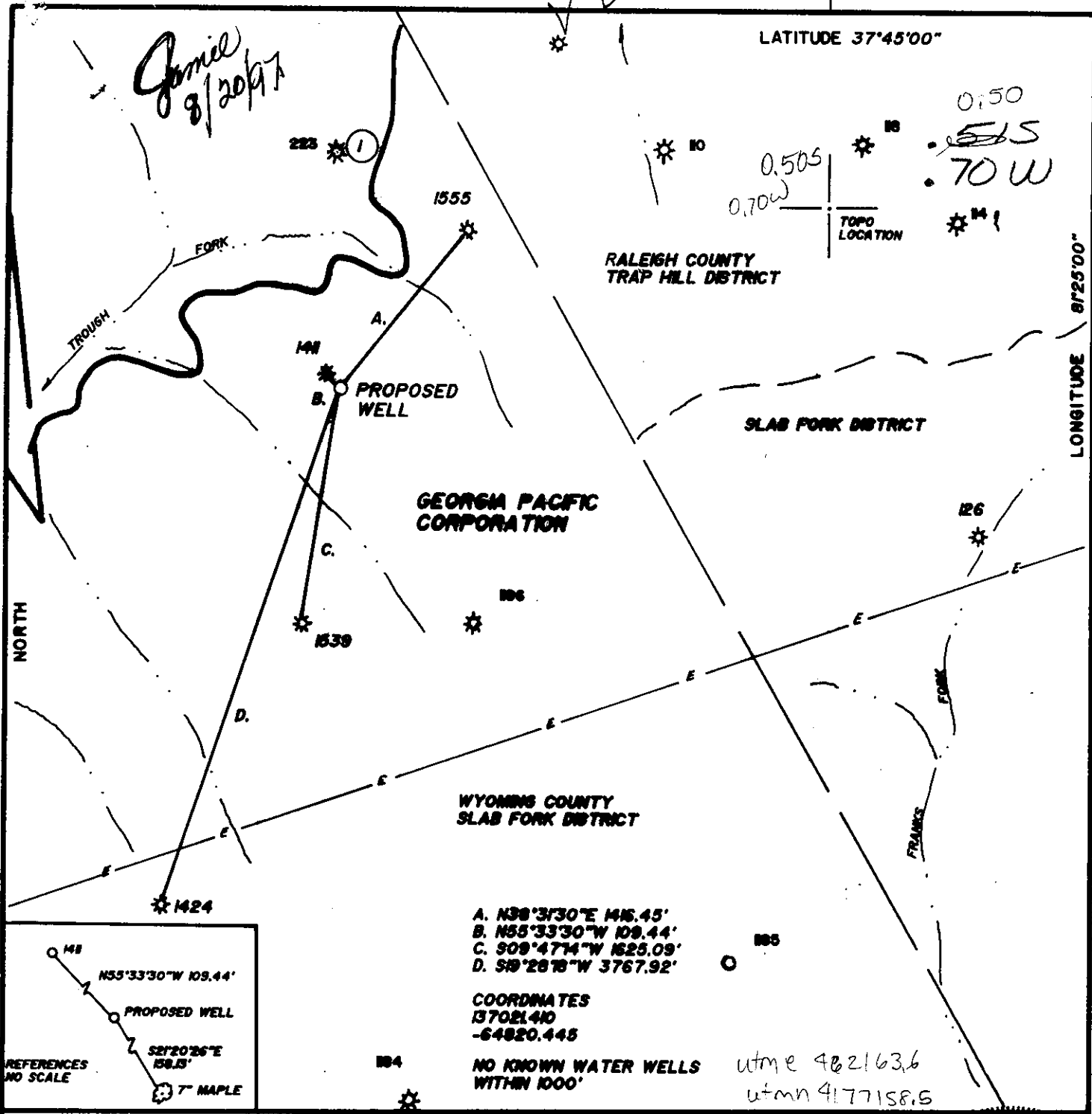
WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS", PRODUCTION X STORAGE _____ DEEP _____ SHALLOW _____
LOCATION: ELEVATION 2484 WATER SHED TROUGH FORK
DISTRICT SLAB FORK COUNTY WYOMING
QUADRANGLE MCGRAW'S, WY 7.8'
SURFACE OWNER GEORGIA PACIFIC CORPORATION ACREAGE 6266±
OIL & GAS ROYALTY OWNER JAGUAR OIL & GAS CORP LEASE ACREAGE 30582±
LEASE NO. _____
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 _____ ESTIMATED DEPTH _____
WELL OPERATOR PENNY VIRGINIA OIL & GAS CORP DESIGNATED AGENT DANA BLACKSHIRE
ADDRESS 999 EXECUTIVE PARK BLVD, SUITE 300 ADDRESS PO BOX 460
RAVENHILL, WV 25933

WYO 1655 P

ESTON BLUEPRINT 20715

MAY 28 2001

Jamil
8/20/97

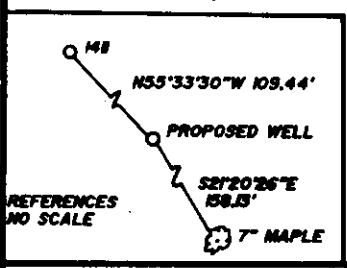


A. N38°31'30"E 145.45'
 B. N55°33'30"W 109.44'
 C. S09°47'14"W 1625.09'
 D. S19°28'18"W 3767.92'

COORDINATES
 137021410
 -64820.445

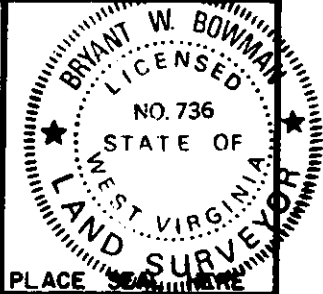
NO KNOWN WATER WELLS
 WITHIN 1000'

utm e 482163.6
 utm n 4177158.5



FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=1000'
 MINIMUM DEGREE OF ACCURACY 1/2000
 PROVEN SOURCE OF ELEVATION USGS BM A-111
ELE. 1794

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) Bryant W. Bowman
 R. P. E. _____ L. L. S. 736



WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 #10 McJUNKIN ROAD
 NITRO, WEST VIRGINIA 25143-2506



DATE MAY 14, 19 97
 OPERATOR'S WELL NO. 7C-267
 API WELL NO. 47-109 01655-C
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS", PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___)
 LOCATION: ELEVATION 2484 WATER SHED TROUGH FORK
 DISTRICT SLAB FORK COUNTY WYOMING
 QUADRANGLE MCCRAW'S, WV 7.5'
 SURFACE OWNER GEORGIA PACIFIC CORPORATION ACREAGE 6266±
 OIL & GAS ROYALTY OWNER JAGUAR OIL & GAS CORP LEASE ACREAGE 30582±
 LEASE NO. _____
 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 _____ ESTIMATED DEPTH _____
 WELL OPERATOR PENN VIRGINIA OIL & GAS CORP DESIGNATED AGENT DANA BLACKSHIRE
 ADDRESS 999 EXECUTIVE PARK BLVD. SUITE 300 ADDRESS PO BOX 460
KINGSPORT, TN 37660 RAVENCLIFF, WV 26913

SEP 22 1997

RECEIVED
 WV Office of Oil & Gas
 UIC Section
 MAY 23 1999
 WV Division of
 Environmental Protection

15-Aug-97
 API # 47-109-01655 C

State of West Virginia
 Division of Environmental Protection Reviewed AS
 Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: GEORGIA-PACIFIC CORP. Operator Well No.: 7C-267

LOCATION: Elevation: 2,484.00 Quadrangle: MCGRAWS

District: SLAB FORK County: WYOMING
 Latitude: 2650 Feet South of 37 Deg. 45Min. 0 Sec.
 Longitude 3700 Feet West of 81 Deg. 25 Min. 0 Sec.

Company: PENN VIRGINIA OIL AND GAS
 999 EXEC. PARK BLVD., STE. 300
 KINGSPORT, TN 37660-0000

Agent: DANA BLACKSHIRE

Inspector: OFIE HELMICK
 Permit Issued: 08/20/97
 Well work Commenced: 10/19/98
 Well work Completed: 12/15/98
 Verbal Plugging
 Permission granted on: _____
 Rotary X Cable _____ Rig
 Total Depth (feet) 1618'
 Fresh water depths (ft) Damp at 120' and
 1391'
 Salt water depths (ft) _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
9 5/8"	20'	20'	0
7"	200'	200'	59
4 1/2"	1599'	1599'	239
2 3/8"		1534'	--

Is coal being mined in area (Y/N)? N
 Coal Depths (ft): _____

OPEN FLOW DATA

L Poca 4 Coal, Poca 4 Coal
 Fire Creek Coal, L. Beckley Coal

Producing formation Beckley Coal, Sewell Coal Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow Show MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure N/A psig (surface pressure) after _____ 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: PENN VIRGINIA OIL AND GAS CORPORATION

By: William M. Ryan
 Date: 5/21/99

Office of Oil & Gas
 Permitting
 MAY 23 1999
 WV Division of
 Environmental Protection

JUN 14 1999

WV0 1655-C

FORM WR-35R
(REVERSE)

PERMIT #: 47-109-01655C
WELL#: 7C-267

DETAILS OF PERFORATIONS, FRACTURING, OR PHYSICAL CHANGE, ETC

Stage 1 Poca 4 Coal and Lower Poca 4 Coal Perforated the Poca 4 Coal from 1471' to 1474' with 7 holes and the Lower Poca 4 Coal from 1503' to 1509' with 13 holes. Breakdown with 500 gallons of 7½% HCL acid and water. Treated with 370 bbls of water and 6450 lbs of 20/40 sand. ATR: 14 BPM ATP: 2900 psi ISIP: 1300 psi

Stage 2 Upper Beckley Coal, Lower Beckley Coal, Fire Creek Coal Perforated the Upper Beckley Coal from 1130' to 1132' with 6 holes, Lower Beckley Coal from 1186' to 1189' with 7 holes and the Fire Creek Coal from 1228' to 1231' with 7 holes. Breakdown with 500 gallons of 7½% HCL acid and water. Treated with 356 bbls of water and 3910 lbs of 20/40 sand. ATR: 12 BPM ATP: 3500 psi ISIP: 2800 psi

Stage 3 Sewell Coal Perforated from 923' to 928' with 20 holes. Breakdown with 500 gallons of 7½% HCL acid and water. Treated with 358 bbls of water and 12,199 lbs of 20/40 sand. ATR: 17.5 BPM ATP: 2500 psi ISIP: 1200 psi

Install pump jack and pump water.

<u>FORMATIONS</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>REMARKS</u>
Sand, Shale & Coal	0	200	Coals @ 106-108, 163-164, 362-364, 490-492, 591-593
Shale	200	230	
Sand	230	380	
Sand, Shale & Coal	380	505	
Sand	505	550	
Sand, Shale & Coal	550	750	
Sand	750	845	
Shale	845	860	
Sand	860	922	
Coal <i>Sewell</i>	922	927	
Shale	927	977	
Sand	977	1120	
Shale	1120	1130	
Coal - <i>Upper Beckley</i>	1130	1132	
Shale	1132	1136	
Sand	1136	1166	
Shale	1166	1185	
Coal <i>Lower Beckley</i>	1185	1189	
Sand & Shale	1189	1228	
Coal <i>Fire Creek</i>	1228	1231	
Sand & Shale	1231	1298	
Sand	1298	1358	
Sand & Shale	1358	1420	
Sand	1420	1472	
Coal - <i>Poca 4</i>	1472	1473	
Shale	1473	1502	
Coal & Shale <i>Lower Poca 4</i>	1502	1508	
Sand & Shale <i>(3 beds?)</i>	1508	1617	Gas check @ TD - no show

WELL WORK PERMIT APPLICATION

1091655C

24107

Well Operator: FENN VIRGINIA OIL & GAS CORPORATION 37355 (7) 466

Operator's Well Number: 7C-267 3) Elevation: 2484

Well type: (a) Oil / or Gas X /

(b) If Gas: Production X / Underground Storage /
 Deep / Shallow /

*Issued 08/20/97
 expires 08/20/99*

Proposed Target Formation(s): Sewell, Upper Beckley, Beckley, Fire Creek
Poca 6, 5, 4 and 3

6) Proposed Total Depth: 1700 feet

7) Approximate fresh water strata depths: 150

8) Approximate salt water depths: N/A

9) Approximate coal seam depths: 100, 150, 220, 360, 480, 590 to be treated 920, 1130
1235, 1300, 1360, 1470, 1520*

10) Does land contain coal seams tributary to active mine? Yes X / No /

11) Proposed Well Work: Drill and complete a CBM well in the coals listed above

12) * Coal depths based on the coal log ran on Wp-267

CASING AND TUBING PROGRAM

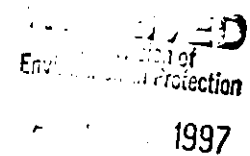
TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor						
Fresh Water	9 5/8	L.S.	26	200	200	65
Coal						
Intermediate						
Production	4 1/2	M-65	9.5	1700	1700	175
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Office of Oil and Gas Use Only

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

2



1) Date: May 15, 1997
2) Operator's well number
70-267
3) API Well No: 47 - 109 - 1655-C
State County Permit

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS**

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served: 5) (a) Coal Operator:
- | | |
|--------------------------------------|---|
| (a) Name <u>Georgia Pacific Corp</u> | Name _____ |
| Address <u>PO Box 105605</u> | Address _____ |
| <u>Atlanta, GA 30348</u> | |
| (b) Name _____ | (b) Coal Owner(s) with Declaration |
| Address _____ | Name <u>Wyoming Pocahontas Land Co.</u> |
| | Address <u>39 Robin Place</u> |
| | <u>Beckley, WV 25801</u> |
| (c) Name _____ | Name _____ |
| Address _____ | Address _____ |
- 6) Inspector Mr. Ofie Helmick (c) Coal Lessee with Declaration
- | | |
|------------------------------------|---|
| Address <u>Post Office Box 398</u> | Name <u>Meadow Mining Company</u> |
| <u>Brenton, WV 24818-0398</u> | Address <u>Route 99, General Delivery</u> |
| Telephone (304)- <u>543-0764</u> | <u>Fairdale, WV 25839</u> |

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 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 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)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 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 PENN VIRGINIA OIL & GAS CORPORATION
By: [Signature]
Its: Vice President
Address 999 Executive Park Blvd., Suite 300
Kingsport, TN 37660
Telephone 1-423-392-0500

Subscribed and sworn before me this 14th day of July, 1997

[Signature] Notary Public
My commission expires 2-13-99