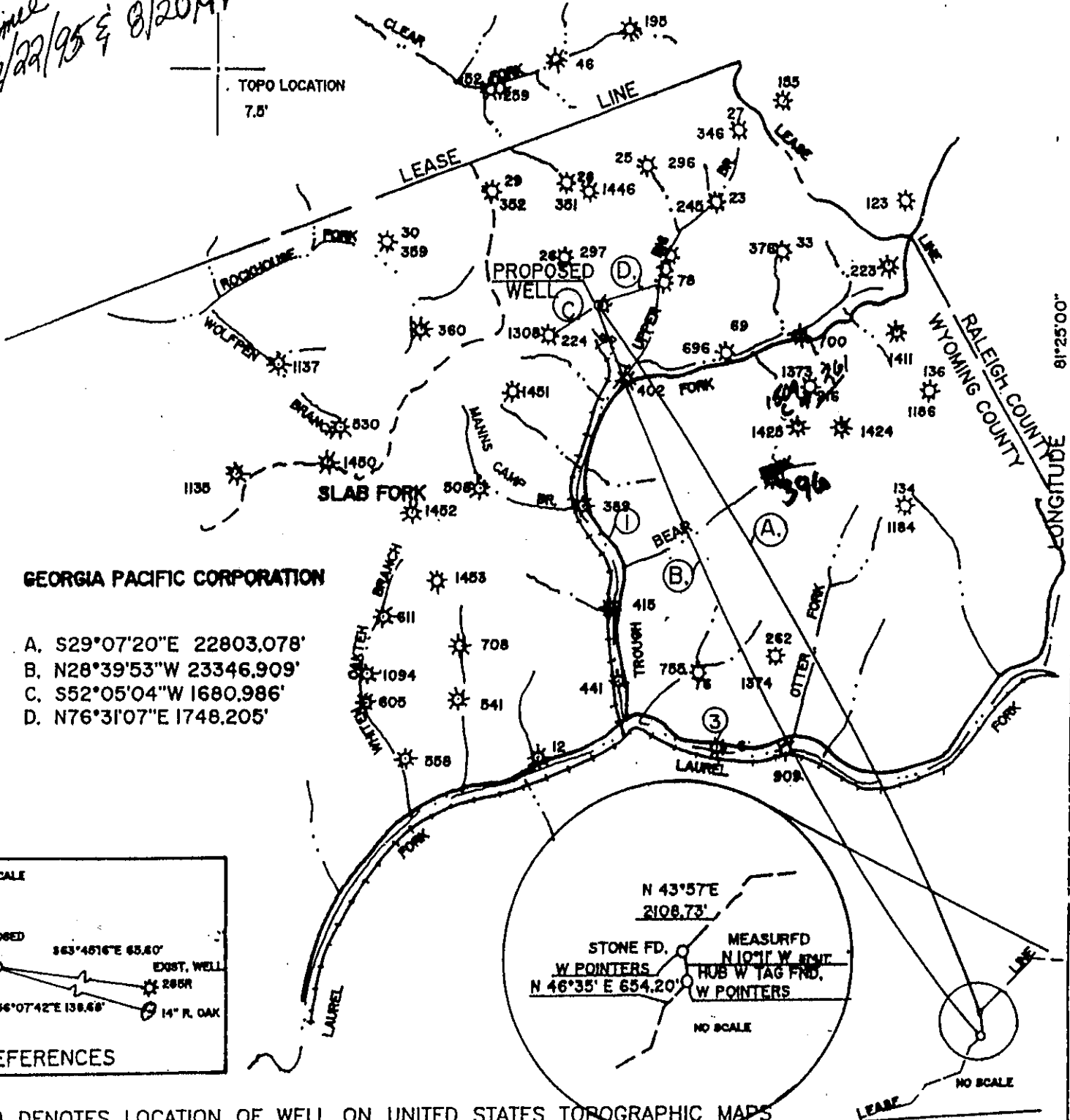


*Amie
6/22/95 & 8/20/97*

11902
LATITUDE 37 30'00"

TOPO LOCATION
7.5'



FILE No _____
 DRAWING No _____
 SCALE 1"=4000'
 MINIMUM DEGREE OF ACCURACY 1:2500
 PROVEN SOURCE OF ELEVATION USGS BM A-181
 ELE. 1794

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION

(SIGNED) *[Signature]*
 R.P.C. _____ R.P.S. 736

BRYANT W. BOWMAN
 LICENSED
 NO. 736
 STATE OF WEST VIRGINIA
 LAND SURVEYOR

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL & GAS
 NIRTO, WEST VIRGINIA

DATE 05-25 19 95
 OPERATOR'S WELL No. 9C-285R
 API WELL No. 47 109-01656CP

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW STATE COUNTY PERMIT

LOCATION: ELEVATION 2227.50' WATER SHED BIG BRANCH OF TROUGH FORK Formerly 109-01514C
 DISTRICT SLAB FORK COUNTY WYOMING CANCELLED.

QUADRANGLE MCGRAWS

SURFACE OWNER GEORGIA PACIFIC CORPORATION ACERAGE 6266±
 OIL & GAS ROYALTY OWNER JAGUAR OIL & GAS CORP. LEASE ACERAGE 3059±
 LEASE No _____

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

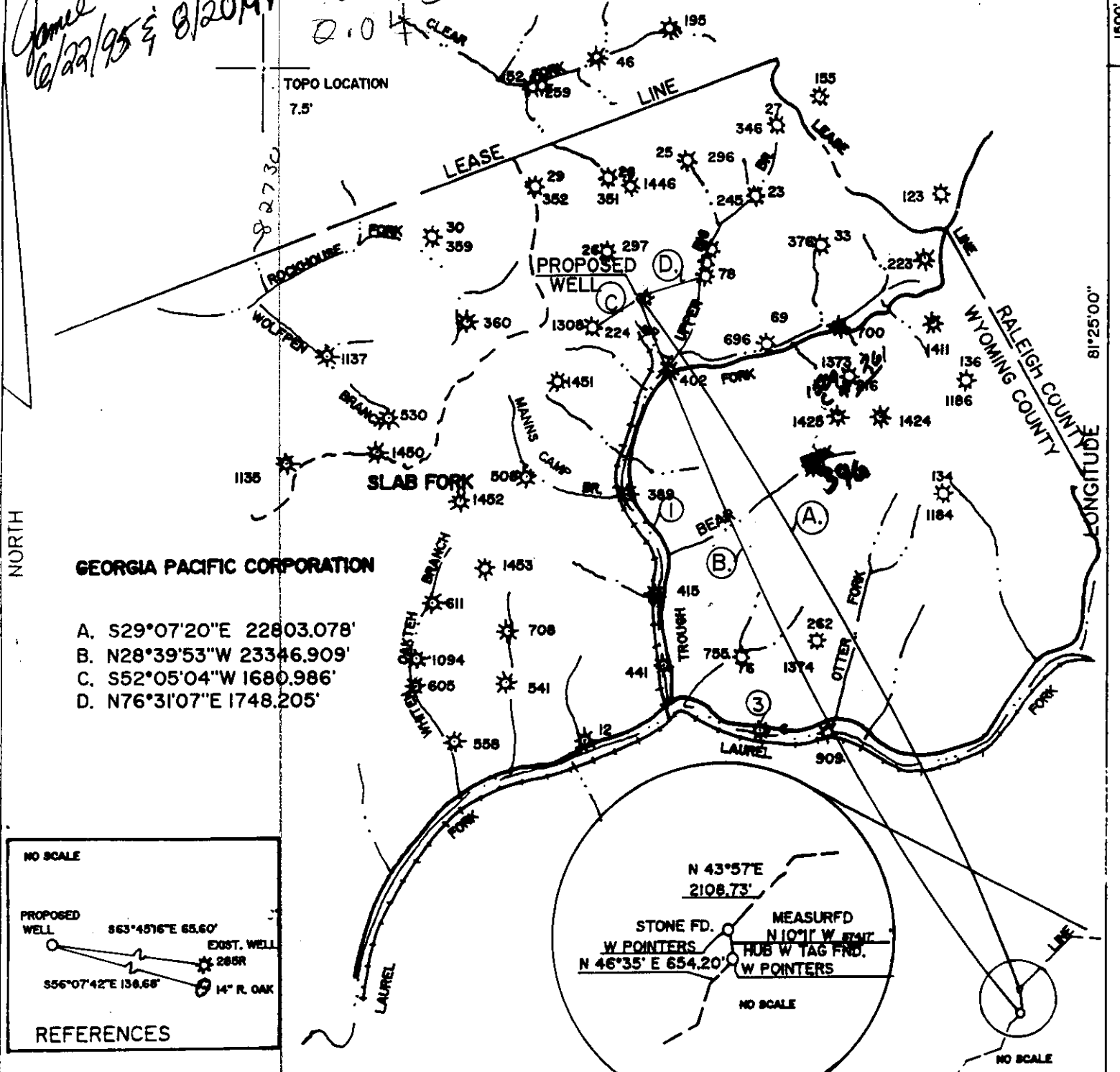
TARGET FORMATION POCAHONTAS COAL ESTIMATED DEPTH 1500' ± 1550'
 WELL OPERATOR PENN VIRGINIA OIL & GAS CORP. DESIGNATED AGENT DANA BLACKSHIRE

1501
 005218
 015218
 WYO
 1656 P
 2004

Amie
 6/22/95 & 8/20/97

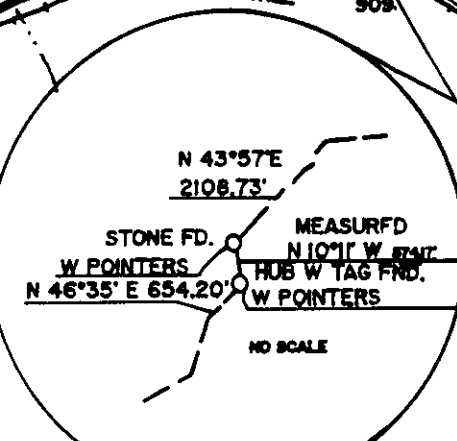
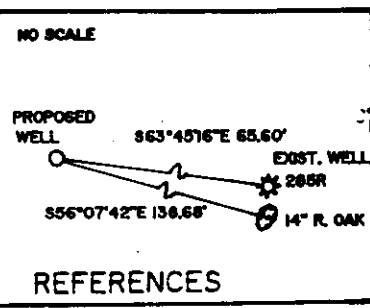
295
 0.04 CLEAR

LATITUDE 37°45'00"



GEORGIA PACIFIC CORPORATION

- A. S29°07'20"E 22803.078'
- B. N28°39'53"W 23346.909'
- C. S52°05'04"W 1680.986'
- D. N76°31'07"E 1748.205'



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

FILE No _____

DRAWING No _____

SCALE **1"=4000'**

MINIMUM DEGREE OF ACCURACY **1:2500**

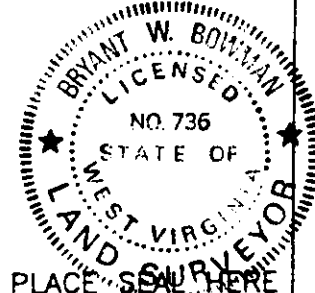
PROVEN SOURCE OF ELEVATION **USGS BM A-181**

ELE. 1794

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION

(SIGNED) *Bryant W. Bowman*

R.P.E. _____ R.P.S. **736**



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL & GAS
 NIRTO, WEST VIRGINIA

DATE 05-25 19 95

OPERATOR'S WELL No. 9C-285R

API WELL No. _____

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___ STATE 47 COUNTY 109-01656C

(IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW

LOCATION: ELEVATION 2227.50' WATER SHED BIG BRANCH OF TROUGH FORK formerly 109-01514C

DISTRICT SLAB FORK COUNTY WYOMING CANCELLED.

QUADRANGLE MCGRAWS

SURFACE OWNER GEORGIA PACIFIC CORPORATION ACERAGE 6266±

OIL & GAS ROYALTY OWNER JAGUAR OIL & GAS CORP. LEASE ACREAGE 3059±

LEASE No. _____

PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 4-4 248

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION POCAHONTAS COAL ESTIMATED DEPTH 1500' 1550' SEP 22 1997

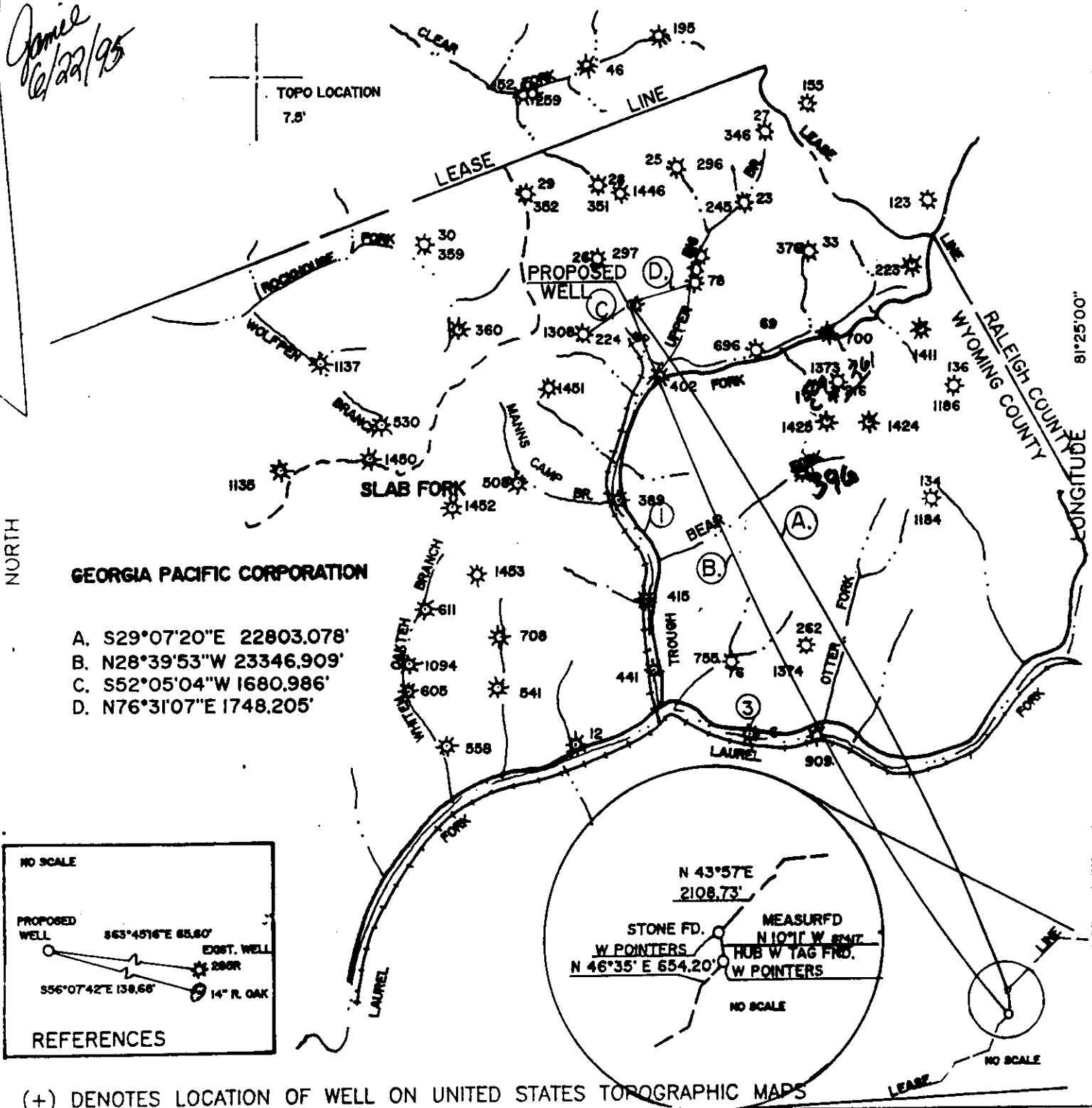
WELL OPERATOR PENN VIRGINIA OIL & GAS CORP. DESIGNATED AGENT DANA BLACKSHIRE

ADDRESS 999 EXECUTIVE PARK BLVD. SUITE 300 ADDRESS PO BOX 460

KINGSPORT, TENN. 37660 RAYNCLIFF, WY

*Janice
6/22/95*

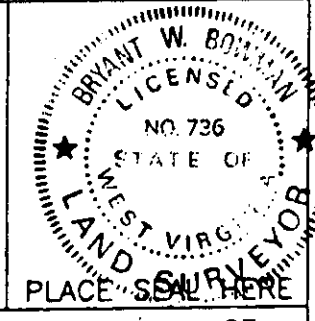
11900' LATITUDE 37°45'00"



FILE No _____
 DRAWING No _____
 SCALE **1"=4000'**
 MINIMUM DEGREE OF ACCURACY **1:2500**
 PROVEN SOURCE OF ELEVATION **USGS BM A-181**
ELE. 1794

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION

(SIGNED) *[Signature]*
 R.P.E. _____ R.P.S. **736**



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL & GAS
 NIRTO, WEST VIRGINIA

DATE 05-25 19 95
 OPERATOR'S WELL No. 9C-285R
 API WELL No. 47

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___ STATE COUNTY PERMIT
 (IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW

LOCATION: ELEVATION 2227.50' WATER SHED BIG BRANCH OF TROUGH FORK
 DISTRICT SLAB FORK COUNTY WYOMING

QUADRANGLE MCGRAWS

SURFACE OWNER GEORGIA PACIFIC CORPORATION ACERAGE 6266±
 OIL & GAS ROYALTY OWNER JAGUAR OIL & GAS CORP. LEASE ACERAGE 3059±
 LEASE No _____

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION POCAHONTAS COAL ESTIMATED DEPTH 1500' ±
 WELL OPERATOR PENN VIRGINIA OIL & GAS CORP. DESIGNATED AGENT DANA BLACKSHIRE
 ADDRESS 999 EXECUTIVE PARK BLVD. SUITE 300 ADDRESS PO BOX 460

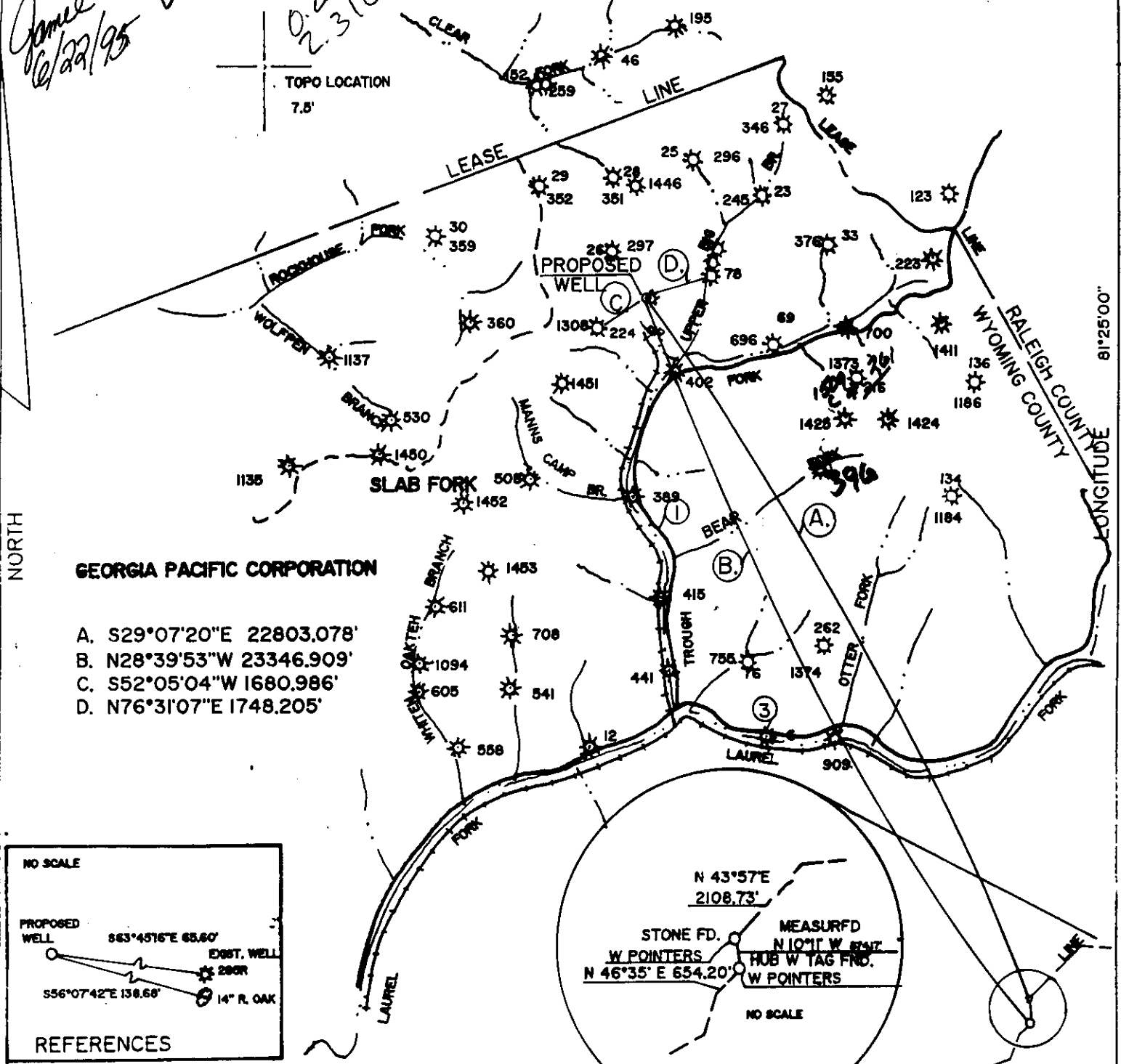
Janice
6/22/95 ✓

0.289
2.31W

11900' LATITUDE 37°45'00"

NORTH

1500' LONGITUDE 81°25'00"



GEORGIA PACIFIC CORPORATION

- A. S29°07'20"E 22803.078'
- B. N28°39'53"W 23346.909'
- C. S52°05'04"W 1680.986'
- D. N76°31'07"E 1748.205'

NO SCALE

PROPOSED WELL: S63°45'16"E 65.60'

EXIST. WELL: 280R

14" R. OAK: S56°07'42"E 138.68'

REFERENCES

NO SCALE

N 43°57'E 2108.73'

STONE FD. MEASURD N 10°11' W 847'

W POINTERS HUB W TAG FNC. W POINTERS

N 46°35' E 654.20'

NO SCALE

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

FILE No _____

DRAWING No _____

SCALE $\Gamma=4000'$

MINIMUM DEGREE OF ACCURACY 1:2500

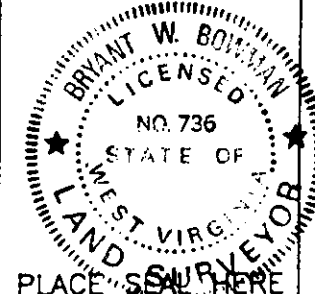
PROVEN SOURCE OF ELEVATION USGS BM A-181

ELE. 1794

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION

(SIGNED) *Bryant W. Bowman*

R.P.E. _____ R.P.S. 736



STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL & GAS NIRTO, WEST VIRGINIA

DATE 05-25 19 95

OPERATOR'S WELL No. 9C-285R

API WELL No. 47 109-015140

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___ STATE COUNTY PERMIT (IF "GAS"). PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW

LOCATION: ELEVATION 2227.50' WATER SHED BIG BRANCH OF TROUGH FORK DISTRICT SLAB FORK COUNTY WYOMING

QUADRANGLE MCGRAWS Mullers Dr

SURFACE OWNER GEORGIA PACIFIC CORPORATION ACERAGE 6266±

OIL & GAS ROYALTY OWNER JAGUAR OIL & GAS CORP. LEASE ACERAGE 30592±

LEASE No _____

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION POCAHONTAS COAL ESTIMATED DEPTH 1500'±

WELL OPERATOR PENN VIRGINIA OIL & GAS CORP. DESIGNATED AGENT DANA BLACKSHIRE

ADDRESS 999 EXECUTIVE PARK BLVD. SUITE 300 ADDRESS PO BOX 460

JUN 23 1995

WR-35

29-Sep-97
API # 47-109-01656 C

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

Well Operator's Report of Well Work

Farm name: GEORGIA-PACIFIC CORP. Operator Well No.: 9C-285R

LOCATION: Elevation: 2,227.50 Quadrangle: MCGRAWS

District: SLAB FORK County: WYOMING
Latitude: 1500 Feet South of 37 Deg. 45Min. 0 Sec.
Longitude 11900 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-BLACKSHERE
Harry Jewell
Inspector: OFIE HELMICK
Permit Issued: 08/20/97
Well work Commenced: 10/02/97
Well work Completed: 02/06/98
Verbal Plugging
Permission granted on: _____
Rotary x Cable _____ Rig
Total Depth (feet) 1430'
Fresh water depths (ft) Damp at 350'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
9 5/8"	88'	88'	41
4 1/2"	1394'	1394'	422

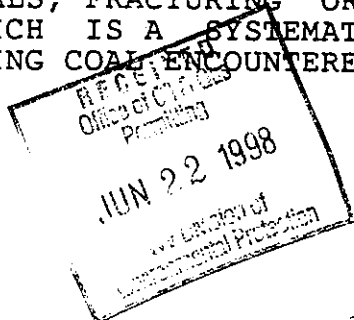
Salt water depths (ft) _____

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

OPEN FLOW DATA Lower Poca 4,
Poca 4, Poca 6, Beckley,
Producing formation U Beckley, Sewell, U Sewell Pay zone depth (ft) _____
Gas: Initial open flow 0 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: 6/12/98

WV/D 1656 C

JUN 24 1998 JUN 29 1998

FORM WR-35R
(REVERSE)

PERMIT #: 47-109-01656-C
WELL#: 9C-285R

DETAILS OF PERFORATIONS, FRACTURING, OR PHYSICAL CHANGE, ETC

- Stage 1 Perforated the Lower Poca 4 coal from 1322' - 1328' with 13 holes, the Poca 4 coal from 1286'- 1288' with 5 holes and the Poca 6 coal from 1129' - 1134' with 11 holes. Breakdown with 1000 gallons of 15% HCL acid and water. Treated with 226 barrels of water, 1000 lbs 12/20 sand and 276,000 SCF of N2.
ATR: 35 BPM ATP: 3000 psi ISIP: 2150 psi
- Stage 2 Perforated the Upper Sewell coal from 682' - 685' with 3 holes, the Sewell coal from 725' - 727' with 3 holes, the Upper Beckley coal from 931' - 935' with 4 holes and the Beckley coal from 1008' - 1013' with 6 holes. Breakdown with 1000 gallons of 15% HCL acid and water. Treated with 194 barrels of water, 3,500 lbs 12/20 sand and 287,000 SCF of N2.
ATR: 35 BPM ATP: 3225 psi ISIP: 1175 psi

<u>FORMATIONS</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>REMARKS</u>
Sand & Shale	0	185	
Coal	185	187	
Sand & Shale	187	550	
Sand	550	650	
Shale	650	682	
Upper Sewell coal	682	683	
Sand & Shale	683	725	
Sewell Coal	725	727	
Sand	727	931	
Upper Beckley Coal	931	935	
Sand	935	1008	
Beckley Coal	1008	1012	
Sand & Shale	1012	1133	
Poca 6 Coal	1133	1134	
Sand	1134	1220	
Sand & Shale	1220	1287	
Poca 4 Coal	1287	1288	
Sand & Shale	1288	1323	
Lower Poca 4 Coal	1323	1327	
Sand & Shale	1327	1430	Gas checks - No shows reported

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WELL WORK PERMIT APPLICATION

JUN 06 1995

37355 (7) 466

- 1) Well Operator: PENN VIRGINIA OIL & GAS CORPORATION
- 2) Office of Oil & Gas Operator's Well Number: 9C-285R 3) Elevation: 2227.50'
- Well type: (a) Oil___/ or Gas X/ *Issued 06/22/95*
 (b) If Gas: Production X/ Underground Storage___/
 Deep___/ Shallow___/ *Expires 06/22/97*
- 5) Proposed Target Formation(s): Sewell, Beckley, Firecreek and Pocahontas Coals
- 6) Proposed Total Depth: 1500 feet
- 7) Approximate fresh water strata depths: None Reported
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: 190, 340, to be treated 700, 920, 1000, 1140, 1315
- 10) Does land contain coal seams tributary to active mine? Yes X/ No___/
- 11) Proposed Well Work: Drill & Complete Coalbed Methane Well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor						38 CSR 18 11.3
Fresh Water						38 CSR 18 11.22
Coal	7"	L.S.	20	600	600	95
Intermediate						
Production	4 1/2	J-55	10.5	1500	1500	95
Tubing						38 CSR 18 11.1
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 SB Blank Agent
 (Type)

872

22

RECEIVED
WV Division of
Environmental Protection

JUN 06 1995

- 1) Date: 05-29-1995
- 2) Operator's well number
9C-285R
- 3) API Well No: 47 - 109 - 1514-c
State - County - Permit

Permitting STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name Georgia Pacific Corporation
Address P. O. Box 105605
Atlanta, GA 30348
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name _____
Address _____
 - (b) Coal Owner(s) with Declaration
Name Wyoming Pocahontas Land Co., Inc.
Address 39 Robin Place
Beckley, WV 25801
 - Name _____
Address _____
- 6) Inspector Mr. Ofie Helmick
Address P.O. Box 398
Brenton, WV 24818
Telephone (304)-732-9135
- (c) Coal Lessee with Declaration
Name _____
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)
- X 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 PENN VIRGINIA OIL & GAS CORPORATION
By: C. M. Randolph
Its: Vice President
Address 999 Executive Park Blvd., Suite 300
Kingsport, TN 37660
Telephone 1-615-392-0500

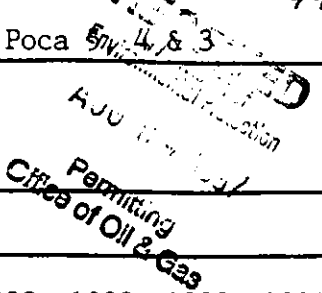
Subscribed and sworn before me this 2nd day of June, 1995

Kita J. Gibson Notary Public
My commission expires 2-13-99

DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

109-1656-C

- 1) Well Operator: PENN VIRGINIA OIL & GAS CORPORATION 37355 (7) 466
- Operator's Well Number: 9C-285R 3) Elevation: 2227.50
- Well type: (a) Oil / or Gas X / WAS 2109 1514
- (b) If Gas: Production X / Underground Storage / Issued 08/20/97
 Deep / Shallow Expired 08/24/99
- Proposed Target Formation(s): Sewell, U. Beckley, Beckley, Poca 5W, 4, & 3
- Proposed Total Depth: 1550 feet
- 7) Approximate fresh water strata depths: None Reported
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: 190, 390, to be tested 720, 920, 1000, 1220, 1320*
- 10) Does land contain coal seams tributary to active mine? Yes X / No /
- 11) Proposed Well Work: Drill and complete a CBM well in hte coals listed above
- 12) * Coal depths based on the coal log ran on WP-285R


 Permitted
 Permitting
 Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		Weight per ft.	FOOTAGE INTERVALS		CEMENT Fill-up (cu. ft.)
	Size	Grade		For drilling	Left in well	
Conductor						
Fresh Water	9 5/8	L.S.	26	80	80	25
Coal						
Intermediate						
Production	4 1/2	M-65	9.5	1550	1550	160
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-23 Bond _____ Agent _____
(Type)

24108

1) Date: July 31, 1997
2) Operator's well number
9C-285R
3) API Well No: 47 - 109 - 1656-C
State County Permit

Permitting
Office of Oil & Gas

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 Georgia-Pacific Corporation Name _____
Address P.O. Box 105605 Address _____
Atlanta, GA 30348
- (b) Name _____ (b) Coal Owner(s) with Declaration
Address _____ Name Wyoming Pocahontas Land Co., Inc.
Address 39 Robin Place
Beckley, WV 25801
- (c) Name _____ Name _____
Address _____ Address _____
- 6) Inspector Ofie Helmick (c) Coal Lessee with Declaration
Address P.O. Box 398 Name _____
Brenton, WV 24818 Address _____
Telephone (304)- 543-0764

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 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:

- X Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- X 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: C. M. Raulof
Its: Vice President
Address 999 Executive Park Blvd., Suite 300
Kingsport, TN 37660
Telephone 1-423-392-0500

Subscribed and sworn before me this 31st day of July, 1997

Kita Johnson Notary Public
My commission expires 2-13-99