

*Janie 5/8/89*  
*" 8/5/93*

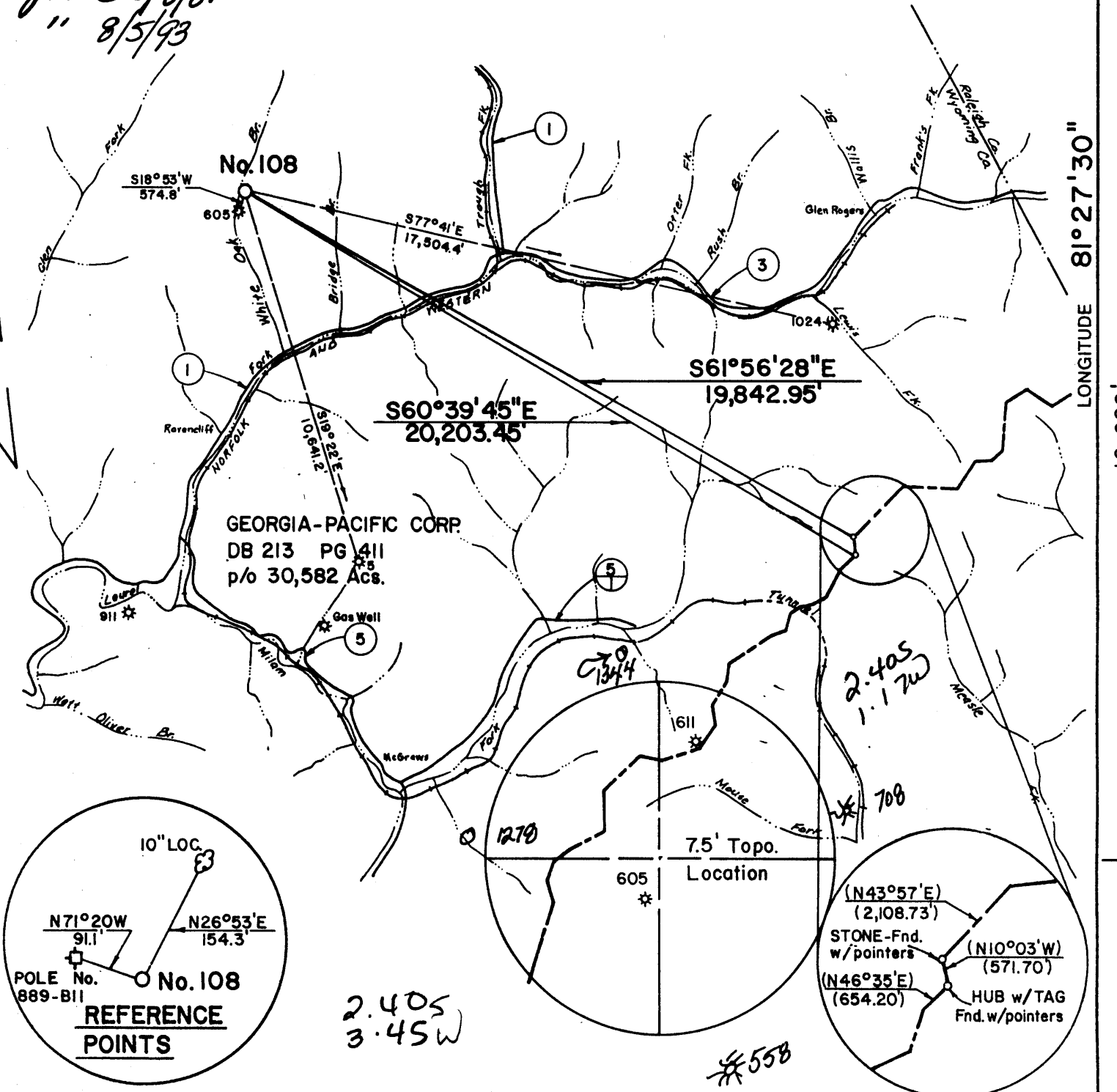
6,225'

LATITUDE 37°45'00"

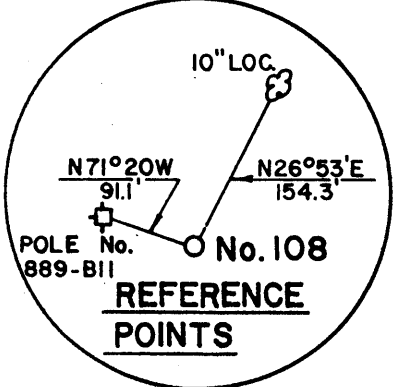
LONGITUDE 81°27'30"

12,600'

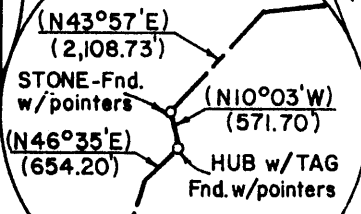
NORTH



GEORGIA-PACIFIC CORP.  
 DB 213 PG 411  
 p/o 30,582 Acs.



**REFERENCE POINTS**



HUB w/TAG Fnd. w/pointers

(+) 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 U.S.G.S. BM NO. Z180  
 EL. 1785.55' LOCATED 1000'± S/W OF GLEN ROGERS HIGH SCHOOL.

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) Gregory Bailey  
 R.P.E. 9318 L.L.S. \_\_\_\_\_



PLACE SEAL HERE

**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE APRIL 26 19 89  
 OPERATOR'S WELL NO. Wyo. Pol. #108  
 API WELL NO. 47-109-1094-F

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1828 WATERSHED WHITE OAK BRANCH  
 DISTRICT SLAB FORK COUNTY WYOMING  
 QUADRANGLE McGRAW'S 7.5' Mullens NW  
 SURFACE OWNER GEORGIA - PACIFIC CORP. ACREAGE 30,582  
 OIL & GAS ROYALTY OWNER Y & O COAL CO. et al LEASE ACREAGE 30,582

PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Repair New Formations Meter, Begline, Chair 5' London.

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 6350  
 WELL OPERATOR West Virginia Oil & Gas DESIGNATED AGENT DANA BLACKSHIRE  
 ADDRESS Box 386 4586 ADDRESS P.O. BOX 766  
 CHARLESTON WV 25323

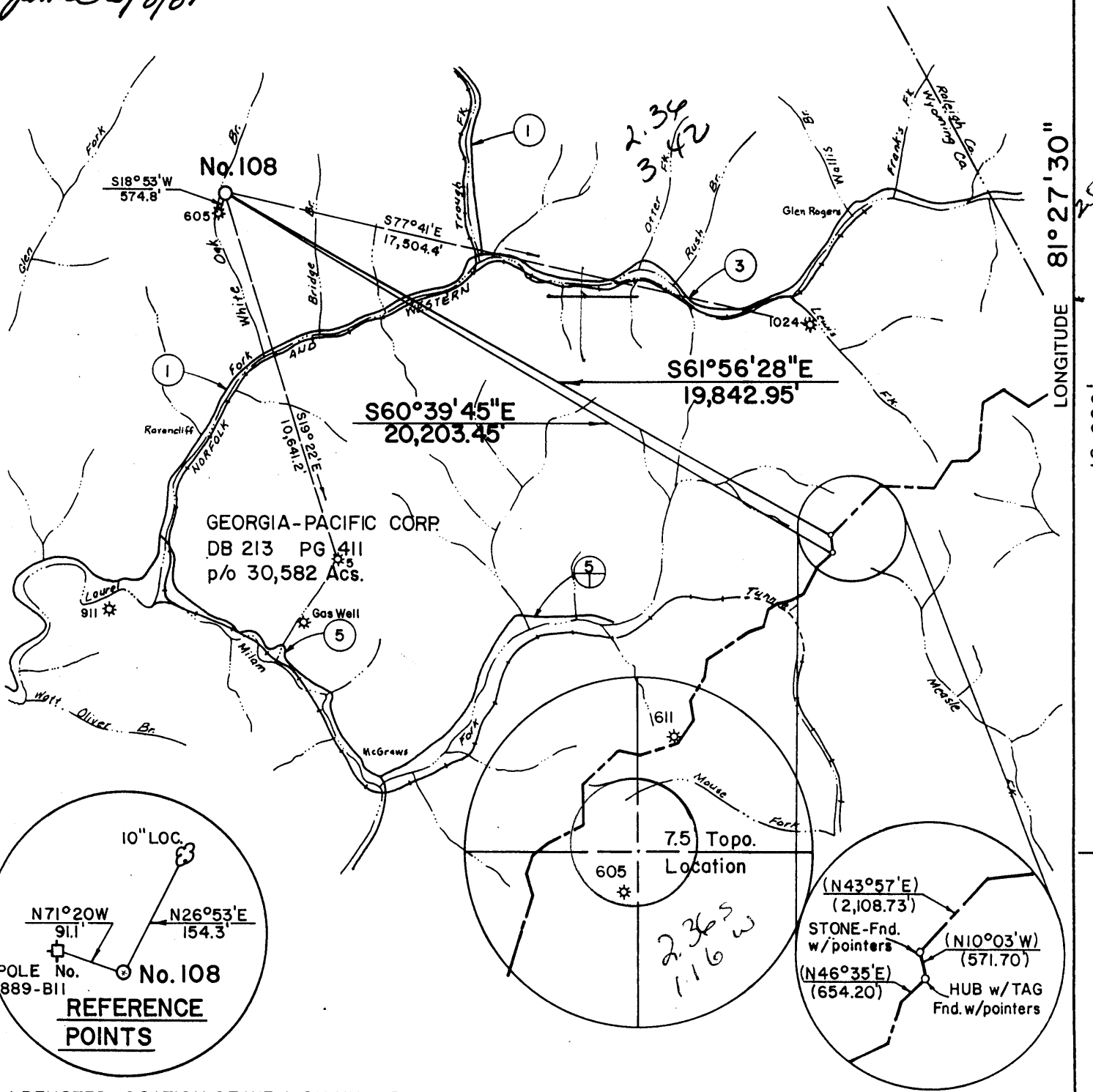
COUNTY NAME WYOM  
 PERMIT 1094

Janie 5/8/89

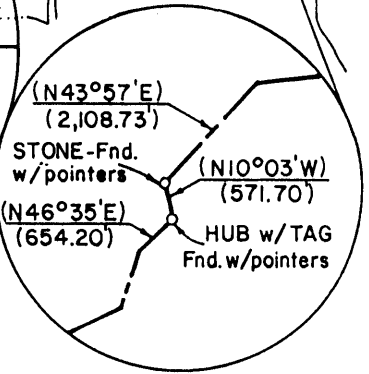
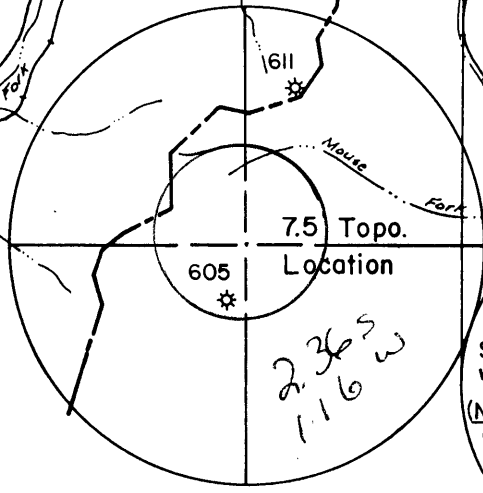
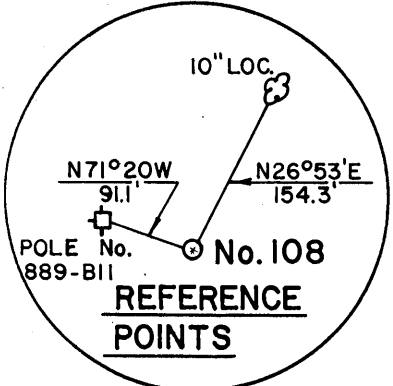
LATITUDE 37°45'00"

LONGITUDE 81°27'30"

NORTH



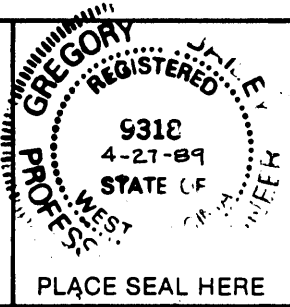
GEORGIA-PACIFIC CORP.  
DB 213 PG 411  
p/o 30,582 Acs.



(+) 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 U.S.G.S. BM NO. Z180  
 EL. 1785.55' LOCATED 1000' S/W OF GLEN ROGERS HIGH SCHOOL.

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) Gregory Bailey  
 R.P.E. 9318 L.L.S. \_\_\_\_\_



**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE APRIL 26, 19 89  
 OPERATOR'S WELL NO. Y & O COAL NO. 108  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1828 WATERSHED WHITE OAK BRANCH  
 DISTRICT SLAB FORK 7 COUNTY WYOMING  
 QUADRANGLE McGRAW'S 7.5' 466 087, Mullens NW  
 SURFACE OWNER GEORGIA - PACIFIC CORP. ACREAGE 30,582  
 OIL & GAS ROYALTY OWNER Y & O COAL CO. et al LEASE ACREAGE 30,582

LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 6350  
 WELL OPERATOR SONAT EXPLORATION DESIGNATED AGENT DANA BLACKSHIRE  
 ADDRESS P.O. BOX 1513 ADDRESS P.O. BOX 766  
HOUSTON, TX 77251-1513 CHARLESTON, WV 25323

MAY 26 1989

COUNTY NAME PERMIT

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

RECEIVED  
DIVISION OF OIL AND GAS

Well Operator's Report of Well Work

Farm name: GEORGIA-PACIFIC CORP. Operator Well No.: WYO. POCA 108

LOCATION: Elevation: 1,828.00 Quadrangle: MCGRAWS

District: SLAB FORK County: WYOMING  
Latitude: 12600 Feet South of 37 Deg. 45Min. Sec.  
Longitude 6225 Feet West of 81 Deg. 27 Min. 30 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: 08/04/93  
Well work Commenced: 10/15/93  
Well work Completed: 12/15/93  
Verbal Plugging  
Permission granted on:  
Rotary Cable Rig  
Total Depth (feet) Plug at 3740'  
Fresh water depths (ft)

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16" Cond.	49'	49'	
11-3/4"	941'	941'	614
8-5/8"	3187'	3187'	643
4-1/2"	6990'	Cut & Pulled @ 3150'	1021
2-3/8" tbg		3117'	

Salt water depths (ft)

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

OPEN FLOW DATA SEE ATTACHED COMPLETION/PRODUCTION SYNOPSIS.

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

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: \_\_\_\_\_  
Date: \_\_\_\_\_

DEC 04 1995

DATE: 2/20/95

PENN VIRGINIA COMPLETION/PRODUCTION SYNOPSIS

Y & O Coal No.108 (Recompletion)

Formation, Perforated Interval, Treatment, Pressure and Rate Data

Gordon	3640'-3664' (10 holes)	<b>Treatment:</b> 250 gals. of 15% HCl acid, breakdown with N <sub>2</sub> , 250 MSCF of N <sub>2</sub> treatment. <b>Pressure and rate data:</b> No pressure data; 36 hour flow rate test of 277 MCFD through 2".
Weir	3012'-3026' (11 holes)	<b>Treatment:</b> 500 gals. of 15% HCl acid, breakdown with treated water, frac with 23,000 gals. of 75 Quality foam, 40,000 lbs. of sand and 230 MCF of N <sub>2</sub> pumped at 10 BPM. <b>Pressure and rate data:</b> 610 psig in 48 hours, 4 hour flow test at 640 MSCF/D through a 4 1/2" x 5 1/2" swedge.
Big Lime	2722'- <sup>2732?</sup> <del>2232</del> ' (5 holes)	<b>Treatment:</b> 500 gals. of 15% HCl acid, breakdown with treated water, acidized with 10,000 gals. of 75 Quality foam (2500 gals. 15% HCl and 125 MCF of N <sub>2</sub> ) displaced with N <sub>2</sub> . <b>Pressure and rate data:</b> No pressure or flow rate data.
	2654'-2660' (4 holes)	<b>Treatment:</b> 250 gals. of 15% HCl acid, break with treated water, acidize with 5,000 gals. 75 Quality foam (1250 gals. 15% HCl acid and 65 MCF N <sub>2</sub> ) and displaced with N <sub>2</sub> . <b>Pressure and rate data:</b> 600 psig in 48 hours, and a 4 hr. flow test at 394 MCF/D through a 4 1/2" x 5 1/2" swedge.

DEC 04 1995

109 1094

PENN VIRGINIA COMPLETION/PRODUCTION SYNOPSIS

Y & O Coal No.108 (CONT.)

2502'-2506' (4 holes)	<b>Treatment:</b> 250 gals. of 15% HCl, break with treated water, acidized with 5000 gals. of 75 Quality foam (1250 gals. of 15% HCl and 65 MCF of N2) displace with N2.
2520'-2522' (2 holes)	
	<b>Pressure and rate data:</b> No pressure or flow test data.

**Composite open flow and pressure:** All zones  
310 psig in 48 hours, and a  
4 hour flow rate at 837 MCFD  
through a 2" nipple.

WR 25  
 Jan 4, 1990  
 4095  
 for well

22-May-89  
 API # 47-109-01094

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

Well Operator's Report of Well Work

Georgia - PACIFIC CORP. Operator Well No.: Y & O 108

Elevation: 1828.00 Quadrangle: MCGRAWS

District: SLAB FORK County: WYOMING  
 Latitude: 12600 Feet South of 37 Deg. 45Min. 0 Sec.  
 Longitude 6225 Feet West of 81 Deg. 27 Min. 30 Sec.

Company: SONAT EXPLORATION CO.  
 P. O. BOX 766  
 CHARLESTON, WV 25323-0000

Agent: DANA R. BLACKSHIRE

Inspector: RODNEY G. DILLON  
 Permit Issued: 05/23/89  
 Well work Commenced: 9/7/89  
 Well work Completed: 11/21/89  
 Verbal Plugging  
 Permission granted on: \_\_\_\_\_  
 Rotary  Cable \_\_\_\_\_ Rig  
 Total Depth (feet) 7036'  
 Fresh water depths (ft) 970'+  
 Salt water depths (ft) 1220'+

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
16" cond.	49'	49'	
11-3/4"	941'	941'	614
8-5/8"	3187'	3187'	643
4-1/2"	6990'	6990'	1021
2-3/8" tbg		4493'	

Is coal being mined in area (Y/N)? N  
 Coal Depths (ft): 900-905'

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) \*See below  
 Gas: Initial open flow 250 MCF/d Oil: Initial open flow 0 Bbl/d  
 Final open flow 72 MCF/d Final open flow 0 Bbl/d  
 Time of open flow between initial and final tests 192 Hours  
 Static rock Pressure 740 psig (surface pressure) after 48 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.

\*Pay Zone Depths

- 4900-5100'
- 5200-5512'
- 5916-6150'
- 6450-6600'
- 6728-6806'

For: Julie Ward  
 SONAT EXPLORATION CO.  
 By: Julie Ward, Regulatory Clerk  
 Date: December 27, 1989

12/28/90  
 JAN 05 1990

109 1094

1) Details of Perforated Intervals, Fracturing or Stimulating, Physical Change, etc.

Devonian: Perforated 6728-6806' & 6450-6600'. Pumped 500 gal 15% HCl acid + additives. Displaced acid with 200,000 SCF Nitrogen. Pumped approximately 236 bbls foam. Attempted to frac with 9900 gal 75-Quality Foam @ 50 BPM @ 4800 psi - well never broke down. Pumped 500 gal 15% HCl acid. Pumped 250 gal 15% HCl acid with 4 perfs balls. Displaced acid with Nitrogen. Pumped 150,000 SCF @ 28,000 SCFM.

Perforated 5916-6150'. Pumped 1000 gal 15% FE acid + additives. Displaced acid with 150,000 SCF Nitrogen. Pumped 1000 gal 25% Methanol prepad. Foam frac well using 253 bbls water + 780,000 SCF Nitrogen & 26,200 lbs 20/40 Mesh sand. Foam frac followed by 42,500 gals 75-Quality Foam.

Perforated 5200-5512'. Pumped 4 sx sand followed by 300 gal 15% FE acid + additives. Pumped additional 700 gals 15% FE acid + additives. Displaced with 129,000 SCF Nitrogen. Pumped 1000 gal Methanol prepad. Foam frac'd with 329 bbls water, 1,024,000 SCF Nitrogen & 40,300 lbs 20/40 mesh sand. Frac displaced with 80 bbls foam. Prepad followed with 55,272 gals 75-Quality Foam + sand.

Perforated 4900-5100'. Pumped 1000 gal 15% FE acid + additives. Displaced with 108,000 SCF Nitrogen. Pumped 1000 gal 25% Methanol prepad. Frac'd with 68,880 gal 75-Quality Foam with 76,200 lbs 20/40 mesh sand. Frac displaced with 20 bbls 75-Quality Foam.

RECEIVED  
JAN 04 1980

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

109 1094

2) The well log which is a systematic detailed geological record of all formations, including coal encountered by the wellbore.

<u>Formation</u>	<u>Top Feet</u>	<u>Bottom Feet</u>
sand	83	164
sand	173	178
sand	190	209
sand	209	221
sand	221	233
sand & shale	233	305
sand, shale, coal	305	351
sand	357	420
sand	420	469
sand	484	515
sand	515	586
sand & shale	652	745
sand	745	784
sand	800	838
sand	838	885
sand	885	900
coal	900	905
shale	905	919
shale	919	965
sand & shale	965	1083
sand & shale	1083	1241
sand	1241	1385
sand	1385	1507
*Ravencliff	1405	
*Avis	1456	
sand & shale	1642	1820
sand & shale	1820	2050
sand & shale	2050	2178
*Lower Maxon	2138	
sand & shale	2178	2290
*Little Lime	2260	
sand & shale	2290	2464
*Big Lime	2440	
sand	2464	2504
sand	2520	
sand	2540	
sand & shale	2567	2629
sand	2682	2713
lime	2713	2774
sand & shale	2858	2894
sand & shale	2894	2937
shale	2937	2943
*Weir	2990	
shale	3135	3199
*Berea	3457	
*Gordon	3640	
sand & shale	3660	3896
sand & shale	3896	4111
sand & shale	4300	4514

**RECEIVED**  
 JAN 04 1990  
 DIVISION OF OIL & GAS  
 DEPARTMENT OF ENERGY

12/28/90  
 01/05/90



109 1094

<u>Formation</u>	<u>Top Feet</u>	<u>Bottom Feet</u>
sand & shale	4574	4730
shale	4880	5015
shale	5015	5103
shale	5103	5209
shale	5209	5243
shale	5243	5470
shale	5680	5920
shale	5976	6008
shale	6330	6596
shale	6596	6800
shale	6800	6990
shale	6990	7024
lime	7024	7036
TD	7036	

NOTE: \*All depths from electric log. All other data from the driller's log.

RECEIVED  
JAN 04 1950  
DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

2518

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

47 109-1094  
Issued 5/23/89 Expires 5/23/91

46600, 7, 466

- 1) Well Operator: Sonat Exploration Company
- 2) Operator's Well Number: Y & O Coal #108 3) Elevation: 1828
- 4) Well type: (a) Oil    / or Gas X /  
(b) If Gas: Production X / Underground Storage    /  
Deep    / Shallow X /
- 5) Proposed Target Formation(s): Devonian Shale
- 6) Proposed Total Depth: 6350 feet
- 7) Approximate fresh water strata depths: 970
- 8) Approximate salt water depths: 1220
- 9) Approximate coal seam depths: 860'-862', 296'-298', 500'-503', -575'-579'
- 10) Does land contain coal seams tributary to active mine? Yes    / No X /
- 11) Proposed Well Work: Drill, Stimulate and Perforate New Formation
- 12) New Well

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	16	-	-	30	30	38CSP18-11.3
Fresh Water	11 3/4	H40	42	1000	1000	150-200
Coal						38CSR18-11.2.2
Intermediate	8 5/8	J55	24	3100	3100	250-300
Production	4 1/2	J55	11.6	7800	7800	38SR18-11.1 300-400
Tubing						
Liners						

PACKERS : Kind By Rule 15.05  
 Sizes or as Required  
 Depths set By Rule 15.01

**RECEIVED**  
MAY 05 1989

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

120/54  
 Fee(s) paid:    Well Work Permit    Reclamation Fund    WPCP  
 Plat    WW-9    WW-2B    Bond 5 Blanket New Agent     
 (Type)

**RECEIVED**  
MAY 05 1989

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

1) Date: April 28, 1989  
2) Operator's well number  
Y & O Coal No. 108  
3) API Well No: 47 - 109 - 1094  
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 P. O. Box 105605  
Atlanta, GA 30348  
(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 Phillips Management Group, Inc.  
Address P. O. Box 1664  
Oak Hill, WV 25901  
(b) Coal Owner(s) with Declaration  
Name Youghioghney & Ohio Coal Co.  
Address P. O. Box 1000  
St. Clairsville, Ohio 43950  
Name Bellemead Coal Co.  
Address c/o Trust Dept./Charleston Nat'l Bar  
Charleston Nat'l Plaza, Box 1113, Charleston, WV  
(c) Coal Lessee with Declaration 25324  
Name Ranger Fuel Corp.  
Address P. O. Box 966  
Beckley, WV 25801

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 7 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 Sonat Exploration Company  
By: Sana R. Blackshire  
Its: Designated Agent  
Address P. O. Box 766  
Charleston, WV 25323  
Telephone (304) 925-0317

Subscribed and sworn before me this 4th day of May, 1989

Tammy Lea Hovatter Notary Public  
My commission expires June 7, 1993

JUL 19 93

FORM WW-2B

Permitting

Office of Oil & Gas STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

109-1094-F Issued 8/4/93 Page of Expires 8/4/95

- 1) Well Operator: PENN VIRGINIA OIL & GAS CORPORATION 37355 (7) 461
2) Operator's Well Number: Wyoming Pocahontas C & C Co. #108 3) Elevation: 1828
4) Well type: (a) Oil / or Gas X /
(b) If Gas: Production X / Underground Storage / Deep / Shallow X /
5) Proposed Target Formation(s): Maxon, Big Lime, Weir and Gordon
6) Proposed Total Depth: feet
7) Approximate fresh water strata depths: 970'
8) Approximate salt water depths: 1220'
9) Approximate coal seam depths: 900'-905'
10) Does land contain coal seams tributary to active mine? Yes / No X /
11) Proposed Well Work: Re-work: Pull Tubing, Fracture or Stimulate, Perforate Formation.
12) Squeeze 4 1/2" frac new formation & remove temporary plugs.

CASING AND TUBING PROGRAM

Comingle with existing production

Table with columns: TYPE, SPECIFICATIONS, FOOTAGE INTERVALS, CEMENT. Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, and Liners with various size, grade, weight, and footage data.

PACKERS : Kind Sizes Depths set Cement top on 4 1/2" 3390'

For Division of Oil and Gas Use Only

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

17641

000917 12

RECEIVED  
WV Dept. of  
Environmental Protection  
JUL 19 1993  
Permitting  
Office of Oil & Gas

- 1) Date: July 13, 1993
- 2) Operator's well number Y & O Coal #108
- 3) API Well No: 47 - 109 - 1094 -FRAC  
State - County - Permit

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 Corp.  
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 \_\_\_\_\_
  - (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Rodney Dillon  
Address P.O. Box 131  
Bradley, WV 25818-0131  
Telephone (304)-877-2912

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 Penn Virginia Oil & Gas Corporation  
 By: Allen Poole  
 Its: Vice President  
 Address P.O. Box 386  
Duffield, VA 24244  
 Telephone (703) 431-2831

Subscribed and sworn before me this 13<sup>th</sup> day of July, 1993  
Kita Gibson Notary Public  
 My commission expires July 31, 1995