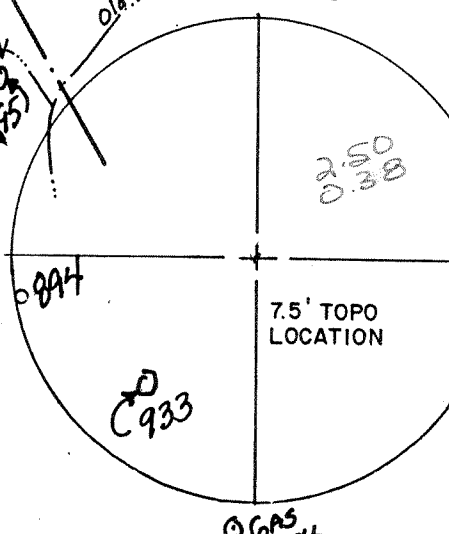
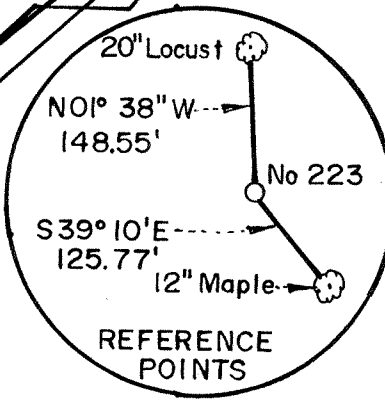
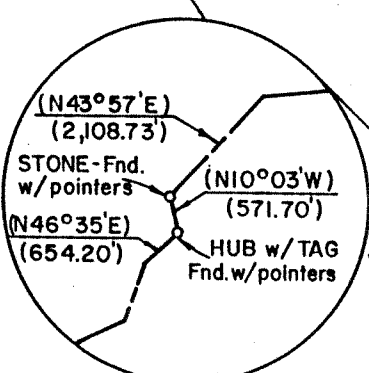
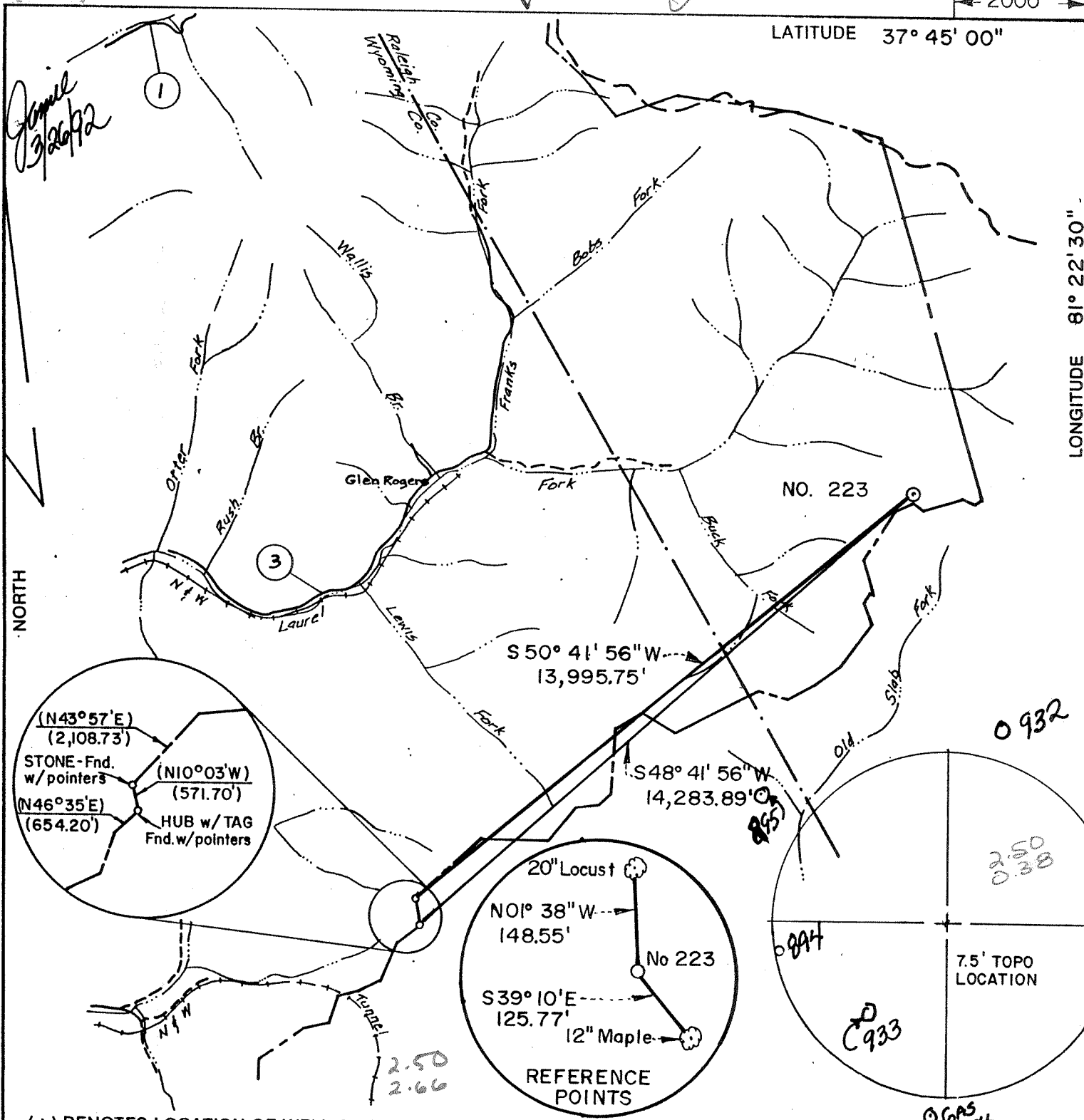


*James
3/26/92*



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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 3000'
 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) Thomas F. Kule
 R.P.E. 3698 I.L.S. _____

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE MARCH 9, 1992
 OPERATOR'S WELL NO. Y & O COAL NO. 223
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 2608 WATERSHED LAUREL FORK
 DISTRICT SLAB FORK 7 COUNTY RALEIGH
 QUADRANGLE MCGRAWS 7.5
 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 BIG LIME ESTIMATED DEPTH 3763
 WELL OPERATOR SONAT EXPLORATION CO. DESIGNATED AGENT DANA BLACKSHIRE
 ADDRESS P.O. BOX 1513 421 ADDRESS P.O. BOX 766
HOUSTON, TX 77251-1513 CHARLESTON, WV 25323

APR 3 1992
 6-6 000

SEP 01 1994

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

WV Division of Environmental Protection
Well Operator's Report of Well Work

Farm name: GEORGIA-PACIFIC CO. Operator Well No.: Y & O 223

LOCATION: Elevation: 2608.00 Quadrangle: MCGRAWS

District: SLAB FORK County: RALEIGH
Latitude: 13125 Feet South of 37 Deg. 45Min. 0 Sec.
Longitude 2000 Feet West of 81 Deg. 22 Min. 30 Sec.

Company: SONAT EXPLORATION CO.
P. O. BOX 1513
HOUSTON, TX 77251-1513

Agent: DANA R. BLACKSHIRE

Inspector: RODNEY G. DILLON
Permit Issued: 03/30/92
Well work Commenced: 4/21/92
Well work Completed: 5/30/92
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 3766'
Fresh water depths (ft) 1625'
Salt water depths (ft) 2125'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13 3/8	42'		Surf.
8 5/8	1763'		Surf.
4 1/2	2943'		TOC 2050'
1 1/2	2778'		

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

OPEN FLOW DATA

Producing formation Middle Maxon Pay zone depth (ft) 2789-2828
Gas: Initial open flow 83 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 84 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 248 psig (surface pressure) after 26 Hours
days
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: Bruce Heath
SONAT EXPLORATION CO.

By: Bruce Heath
Date: September 1, 1992

SEP 2 1994

Y & O COAL #223

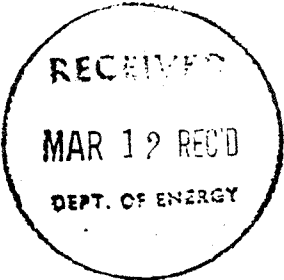
1. Details of Perforated Intervals, Fracturing or Stimulating, Physical Change, etc.

Middle Maxon Perforated 2789-2828'. Dumped 500 gals 15% FE acid w/additives. Pumped 43,000 scf N2. Pumped 1000 gals methanol @ 5 BPM. Foam frac'd w/1856 bbls 75Q foam including 94,000# 20/40 mesh sand.

2. Geological record of all formations.

<u>Formation</u>	<u>Top Feet</u>	<u>Bottom Feet</u>
Coal	24	27
Coal	104	107
Coal	125	132
Coal	675	678
Coal	1021	1026
Coal	1140	1150
Coal	1653	1659
Coal	1707	1711
Coal	1750	1756
Princeton	2090	2130
Ravencliff	2270	2320
Avis	2322	2362
Maxon	2788	2840
Little Lime	3180	3350
Big Lime	3394	3710

13403



- 1) Date: March 9, 1992
- 2) Operator's well number Y & O Coal No. 223
- 3) API Well No: 47 - 081 - 0934
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 _____
- 5) (a) Coal Operator:
 - Name _____
Address _____
 - (b) Coal Owner(s) with Declaration
 - Name Youghiogheny & Ohio Coal Co.
Address P. O. Box 1000
St. Clairsville, Ohio 43950
 - Name Bellemead Coal Co.
Address c/o Trust Dept./Charleston Nat'l B
Charleston Nat'l Plaza, Box 1113, Charleston
 - (c) Coal Lessee with Declaration WV 253
 - Name Ranger Fuel Corp.
Address P. O. Box 966
Beckley, WV 25801
- 6) Inspector Rodney Dillon
Address P. O. Box 1526
Sophia, WV 25921
Telephone (304)- 683-3989

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 Sonat Exploration Company
By: Thomas M. Myers *Thomas M. Myers*
Its: WV Operations Manager
Address _____
Telephone _____

Subscribed and sworn before me this 9th day of March, 1992

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