

300'

POCAHONTAS LAND CORP.

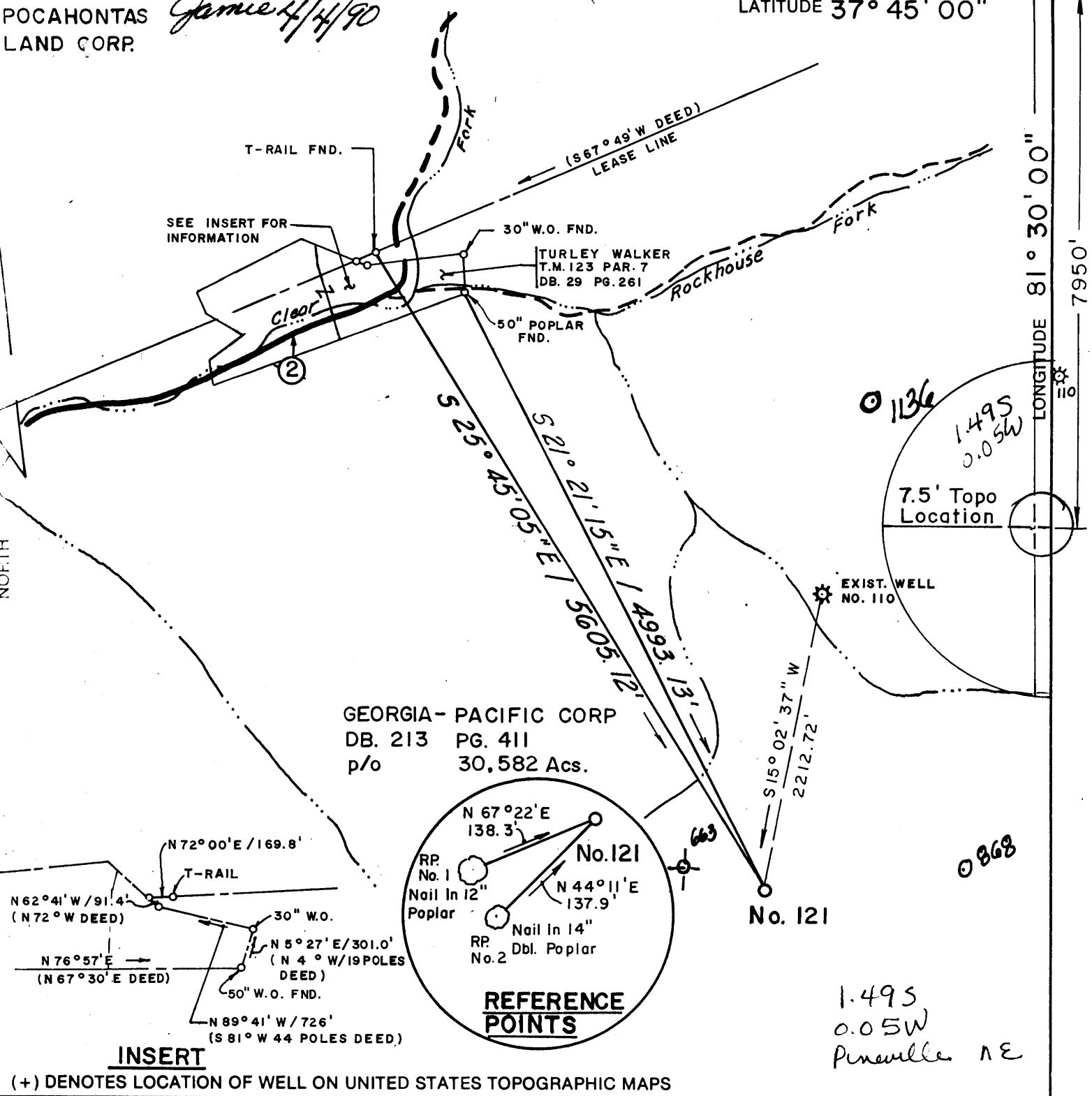
Jamie 4/4/90

LATITUDE 37° 45' 00"

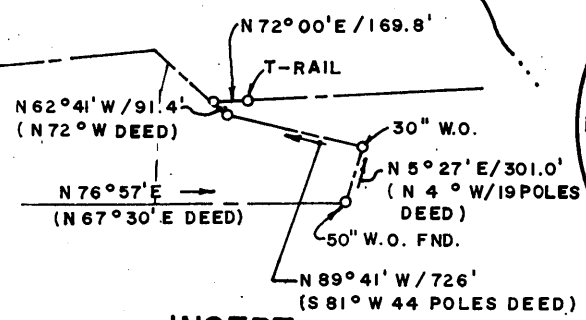
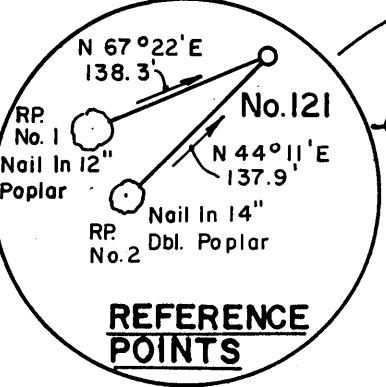
NORTH

LONGITUDE 81° 30' 00"

7950'



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



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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:2500
 PROVEN SOURCE OF ELEVATION U.S.G.S. B.M. 50-SKS 1963/Ed. Rd. NEAR INTER. OF ROCKHOUSE FK. AND CLEAR FK. EL. 1655

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 K. Kib
 R.P.E. 3698 L.L.S. _____

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

DATE MARCH 15, 1990
 OPERATOR'S WELL NO. Y80 COAL NO. 121
 API WELL NO. 47 109 1134
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 2596 WATERSHED ROCKHOUSE FORK
 DISTRICT OCEANA 6 COUNTY WYOMING
 QUADRANGLE MATHENY 7.5'

SURFACE OWNER GEORGIA PACIFIC CORP ACREAGE 30,582
 OIL & GAS ROYALTY OWNER Y80 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 BEREA SAND ESTIMATED DEPTH 4381
 WELL OPERATOR SONAT EXPLORATION CO. DESIGNATED AGENT DANA BLACKSHIRE
 ADDRESS P.O. BOX 1513 ADDRESS P.O. BOX 766
HOUSTON, TX 77251-1513 CHARLESTON, WV. 25323

COUNTY NAME PERMIT

APR 20 1990

RECEIVED
Oil & Gas

2792

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

Reviewed TMG

Well Operator's Report of Well Work

Recorded _____

Farm name: GEORGIA-PACIFIC CORP. Operator Well No.: Y & O #121

LOCATION: Elevation: 2596.00 Quadrangle: MATHENY

District: OCEANA County: WYOMING
Latitude: 7950 Feet South of 37 Deg. 45Min. 0 Sec.
Longitude 300 Feet West of 81 Deg. 30 Min. 0 Sec.

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

Agent: DANA R. BLACKSHIRE

Inspector: RODNEY G. DILLON
Permit Issued: 04/12/90
Well work Commenced: 5/23/91
Well work Completed: 7/01/91
Verbal Plugging _____
Permission granted on: _____
Rotary x Cable _____ Rig _____
Total Depth (feet) 3498
Fresh water depths (ft) 750

Salt water depths (ft) 1000

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Cu. Ft.
13 3/8	48'	48'	surface
8 5/8	1810'	1810'	surface
4 1/2	3471'	3471'	TOC 17'

OPEN FLOW DATA

Big Lime
Ravencliff
Princeton Pay zone depth (ft) 3083-2090-1959-

Gas: Initial open flow 1580 MCF/d Oil: Initial open flow _____ Bbl
 Final open flow 764 MCF/d Final open flow _____ Bbl
 Time of open flow between initial and final tests 40 Hr
 Static rock Pressure 450 psig (surface pressure) after 10 days Hr

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl
 Final open flow _____ MCF/d Final open flow _____ Bbl
 Time of open flow between initial and final tests _____ Hr
 Static rock Pressure _____ psig (surface pressure) after _____ Hr

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATION 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.

Bruce Heath
For: SONAT EXPLORATION CO.

By: Bruce Heath
Date: 8/30/91

AUG 3 1992

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

Big Lime Perf'd 3336-346' & 3283-299'. Acidized w/5000 gals 15% HCl & 5800 gals gel wtr. Used 132,000 scf of N₂. Perf'd 2nd stage 3083-096'. Acidized w/5000 gals 15% HCl + additives & 5500 gals 20# gel wtr. Used 110,000 scf of N₂.

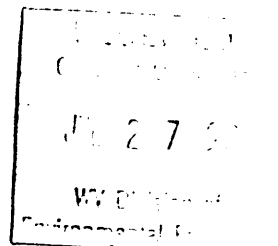
Ravencliff Perf'd 2090-92'; 2101-03; 2108-10'. Dumped 500 gal 15% HCl acid followed by 1000 gal 25% methanol w/Enwar 28. Frac'd well w/36,500 gal 75 & 90Q foam and 60,000# 20/40 sand. Total N₂ 532 mcf.

Princeton Perf 1959-62'; 1964-66'; 1975-77'. Dumped 500 gal 15% HCl + additives, followed by 40 bbls treated wtr. Displ w/treated wtr. Pumped 1000 gal methanol prepad. Frac w/35,000 gal 90Q & 75Q foam & 50,000# 20/40 mesh sand. Total N₂ = 415,000 scf.

2. Geological record of all formation.

<u>Formation</u>	<u>Top Feet</u>	<u>Bottom Feet</u>
Coal	167	169
Coal	204	206
Coal	317	320
Coal	554	558
Coal	1313	1316
Coal	1586	1588
Coal	1670	1674
Coal	1753	1756
Princeton	1953	1982
Ravencliff	2080	2120 GC: 119 MCFD
Avis	2120	2161
U. Maxon	Absent	Absent
L. Maxon	2782	2886
Little Lime	2886	3066
Lower Lime	3066	3372
TD	3498'	

No Coal logs run.



AUG 3 1992

10396

Y & O COAL #121
API #: 47-109-01134

Production Tests by Individual Zones:

<u>Zone</u>	<u>Flow Rate</u>	<u>% of Total</u>
Big Lime	421 MCFD	54.89
Ravencliff	266 MCFD	34.68
Princeton	<u>80 MCFD</u>	<u>10.43</u>
Total	767 MCFD	100.00%

2792

AUG 3 1992

RECEIVED
MAR 27 1990

1)
2)
3)

Date: March 16, 1990
Operator's well number
Y & O Coal No. 121
API Well No: 47 - 109 - 1134
State - County - Permit

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
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 _____
Address _____
(b) Coal Owner(s) with Declaration
Name Youghiogheny & Ohio Coal Co.
Address 328 North Lake Drive
Prestonburg, KY 41653
Name Bellemead Coal Co.
Address c/o Trust Dept., Charleston Nat'l Bank
Chas. Nat'l Plaza, Box 1113, Chas., WV 25324
(c) Coal Lessee with Declaration
Name Ranger Fuel Corp.
Address P. O. Box 966
Beckley, WV 25802-0966

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

Subscribed and sworn before me this 15th day of March, 1990

 Carolyn D. Johnson Notary Public
My commission expires November 6, 1995



ATLAS WIRELINES SERVICES

GR DUAL INDUCTION

LOG

COMPANY: SONAT EXPLORATION CO.

WELL: Y & O COAL # 121R

FIELD: OCEANA DISTRICT

COUNTY: WYOMING

STATE: WY.

PERMIT #: 47-109-1134

DATE: 28 MAY 91

LOCATION

GLEN FORK & ROCKHOUSE FORK QUAD : MCGRAHS 7.5'

SEC: N/A

TWP: N/A

RGE: N/A

OTHER SERVICES

TEMPERATURE
NOISE
INDUCTION

ELEVATION

PERM. DATUM: GROUND LEVEL
LOG MF: KELLY BUSHING
DRILLING MF: KELLY BUSHING

KB: 2434'
DF: 2433'
GL: 2424'

