

Janice 4/5/90

POCAHONTAS LAND CORP.

LATITUDE 37° 45' 00"

TURLEY WALKER
TM. 123 PAR. 7
DB 29 PG. 261

(S67°49'W DEED)
LEASE LINE

T-RAIL FND.

SEE INSERT FOR
INFORMATION

30" W.O. FND.

1138
Rockhouse

50" POPLAR
FND.

LONGITUDE 81° 30' 00"

8300'

S 25° 20' 05" W
5322.42'

7.5' Topo
Location

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

EXIST. WELL
110

S 33° 15' 55" W
5277.11'

N 72° 00' E / 169.8'

N 62° 41' W / 91.4'
(N 72° W DEED)

N 76° 57' E
(N 67° 30' E DEED)

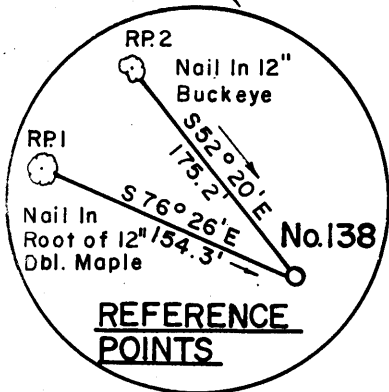
N 5° 27' E / 301.0'
(N 4° W / 19 POLES
DEED)

N 89° 41' W / 726'
(S 81° W 44 POLES DEED)

No. 138

156 S
0.92 W
Pineville NE

INSERT



REFERENCE
POINTS

(+) 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. BM. 50-SKS 1963/
 Ed. Rd. Near Inter. Of Rockhouse
 Fork And Clear Fork 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 A. Kull
 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. Y 80 COAL NO. 138
 API WELL NO.

47 109 1140
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 2675 WATERSHED CLEAR FORK
 DISTRICT OCEANA 6 COUNTY WYOMING
 QUADRANGLE MATHENY 7.5' 463

SURFACE OWNER GEORGE-PACIFIC CORP. ACREAGE 30,582
 OIL & GAS ROYALTY OWNER Y 80 COAL CO. et al LEASE ACREAGE 30,582

LEASE NO. _____

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

APR 20 1990

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION BEREA SAND ESTIMATED DEPTH 4575

WELL OPERATOR SONAT EXPLORATION CO. DESIGNATED AGENT DANA BLACKSHIRE
 ADDRESS P.O. BOX 1513 ADDRESS P.O. BOX 766

HOUSTON, TX 77251-1513 421

CHARLESTON, WV 25323

COUNTY NAME
PERMIT

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 Office of Oil & Gas
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 WV Division of
 Oil & Gas

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

Reviewed TMG
 Recorded _____

Well Operator's Report of Well Work

Farm name: GEORGIA-PACIFIC CORP. Operator Well No.: Y & O #138

LOCATION: Elevation: 2675.00 Quadrangle: MATHENY

District: OCEANA County: WYOMING
 Latitude: 8300 Feet South of 37 Deg. 45Min. 0 Sec.
 Longitude 4950 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: 6/27/91
 Well work Completed: 9/08/91
 Verbal Plugging _____
 Permission granted on: _____
 Rotary x Cable _____ Rig _____
 Total Depth (feet) 3362' ³³⁶²
 Fresh water depths (ft) 750
 Salt water depths (ft) 1000

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13 3/8	40'	40'	surface
8 5/8	1607'	1607'	surface
4 1/2	3328'	3328'	TOC 1590'
1 1/2	2940'		Tubing

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

OPEN FLOW DATA

Producing formation Big Lime Maxon Pay zone depth (ft) 2949-32500-25
 Gas: Initial open flow 388 MCF/d Oil: Initial open flow _____ Bbl/
 Final open flow 322 MCF/d Final open flow _____ Bbl/
 Time of open flow between initial and final tests 48 Hour
 Static rock Pressure 655 psig (surface pressure) after 10 days Hour

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 _____ Hour
 Static rock Pressure _____ psig (surface pressure) after _____ Hour

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.


 For: SONAT EXPLORATION CO.

By: Bruce Hearsh
 Date: 11/26/91 AUG 3 1992

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

Big Lime Perf 1st stage 3210-23'. Pump 4000 gal 15% HCl. Perf 2nd stage 2949-67'. Pump 5000 gal 15%.

Maxon Perf 2500-02 & 2590-93'. Dump 5 gal sd & 500 gal 15% FE acid w/ additives. Frac w/13,950 gal 75Q foam pad. Frac w/39,150 gal 75Q foam including 50,000# 20/40 mesh sd.

2. Geological record of formation.

<u>Formation</u>	<u>Top Feet</u>	<u>Bottom Feet</u>
Coal	62	65
Coal	123	126
Coal	287	290
Coal	1157	1160
Coal	1260	1263
Coal	1559	1563
Princeton	2115	1924
Ravencliff	2019	2044
Avis	2044	2084
Maxton	2478	2502
Little Lime	2760	2936
Big Lime	2936	3260
TD:	3352'	

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AUG 3 1992

10402

Y & O COAL #138
API #: 47-109-01140

Production Tests by Individual Zones:

<u>Zone</u>	<u>Flow Rate</u>	<u>% of Total</u>
Big Lime	264 MCFD	91.03
L. Mid Maxon	<u>26 MCFD</u>	<u>8.97</u>
Total	290	100.00%

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Environmental Protection

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

109-1140

Issued 4/12/90

Page 3 of 7

Expires 4/12/92

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- 1) Well Operator: Sonat Exploration Company 46600(6) 463
- 2) Operator's Well Number: Y & O Coal No. 138 3) Elevation: 2675
- 4) Well type: (a) Oil / or Gas X/
(b) If Gas: Production X/ Underground Storage /
Deep / Shallow X/
- 5) Proposed Target Formation(s): 395 Berea Sand
- 6) Proposed Total Depth: 4575 feet
- 7) Approximate fresh water strata depths: 750
- 8) Approximate salt water depths: 1000
- 9) Approximate coal seam depths:
- 10) Does land contain coal seams tributary to active mine? Yes / No X/
- 11) Proposed Well Work: Drill, Stimulate, 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	
Conductor	13 3/8	H40	48	30	30	38CSR18-11.3
Fresh Water	8 5/8	J55	24	2200	2200	100
Coal	8 5/8	J55	24	2200	2200	100
Intermediate						38CSR18-11.2.2
Production	4 1/2	J55	10.5	4575	4575	600-650
Tubing						38CSR18-11.1
Liners						

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

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MAR 27 1990

120829 #8

For Division of Oil and Gas Use Only DEPARTMENT OF ENERGY

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

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MAR 27 1990

DIVISION OF OIL & GAS 3)
DEPARTMENT OF ENERGY

Date: March 16, 1990
Operator's well number
Y & O Coal No. 138
API Well No: 47 - 109 - 1140
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 _____
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 253
- (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 Sonat Exploration Company
By: Wanda R. Blackstone
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 S. Johnson
My commission expires November 6, 1995 Notary Public