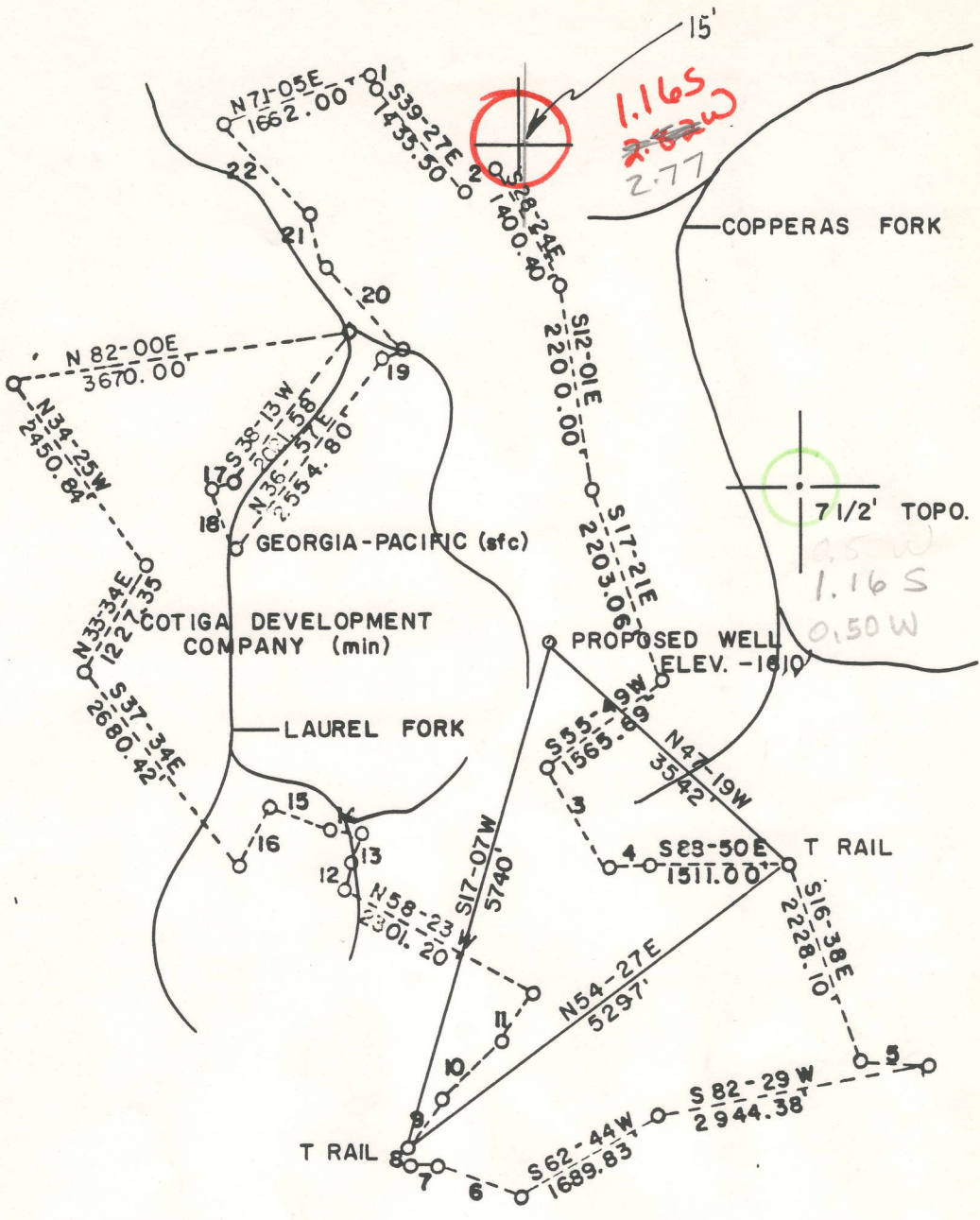


Plot Card CSD

LATITUDE 37° 50' 00"

LONGITUDE 82° 07' 30"

NORTH



1= S24-50 E	181.50'
2=N53-11E	469.71'
3=S28-24E	122.972'
4=S83-49E	484.85'
5=S83-52E	758.07'
6=N67-17 W	960.73'
7=S87-15 W	309.02'
8=N02-32W	215.14'
9=N35-37E	670.23'
10=N48-18E	878.32'
11=N36-07E	644.87'
12=N6-45E	330.00'
13=N22-38E	368.11'
14=N78-40W	383.5'
15=N67-30W	660.00'
16=S27-32W	746.08'
17=S72-40W	280.67'
18=S19-02E	719.17'
19=N66-12E	243.53'
20=N41-58W	1268.84'
21=N13-51W	610.50'
22=N42-10W	1346.00'

FILE NO _____
 DRAWING NO. _____
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION USGS BM TRACEFORK 665 MYRTLE QUAD.

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 MINES
 (SIGNED) [Signature]
 R.P.E. _____ L.L.S. 624



(-) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-E (878)



DATE MAY 19 19 83
 OPERATOR'S WELL NO. C-72
 API WELL NO. _____
 47 - 059 - 1066
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

JUN 27 1983

WELL TYPE OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION ELEVATION 1610' WATER SHED LAUREL FORK
 DISTRICT HARDEE COUNTY MINGO
 QUADRANGLE MYRTLE Holden 15' SC
 SURFACE OWNER GEORGIA PACIFIC ACREAGE 1030
 OIL & GAS ROYALTY OWNER COTIGA DEVELOPMENT CO. LEASE ACREAGE 1030
 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) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 5200' 6-6 Dempsey School (368)
 WELL OPERATOR SENECA-UPSHUR PET. INC. DESIGNATED AGENT JOSEPH HAGER
 ADDRESS P.O. BOX 2048 BUCKHANNON, W. VA. 26201 DEEP WELL P.O. BOX 2048 BUCKHANNON, W. VA. 26201

Rec
4/12/84
FERC



State of West Virginia
Department of Mines
Oil and Gas Division

Date February 16, 1984
Operator's Well No. C-72
Farm _____
API No. 47 - 059 - 1066

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production X / Underground Storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 1610' Watershed Laurel Fork
District: Hardee County Mingo Quadrangle Myrtle

COMPANY Seneca-Upshur Petroleum Company
ADDRESS P.O. Box 2048, Buckhannon, WV 26201
DESIGNATED AGENT Joseph G. Hager
ADDRESS P.O. Box 2048, Buckhannon, WV 26201
SURFACE OWNER Georgia-Pacific
ADDRESS 133 Teachtree Street, N.E., Atlanta, GA
MINERAL RIGHTS OWNER Cotiga Development Company
2nd Floor Rear, 14 East Lancaster Ave.
ADDRESS Paoli, Pennsylvania 19301
OIL AND GAS INSPECTOR FOR THIS WORK Arthur
St. Clair ADDRESS P.O. Box 157, Brenton, WV
PERMIT ISSUED 6/24/83
DRILLING COMMENCED 11/17/83
DRILLING COMPLETED 11/30/83

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.	20	20	10
13-10"	993	993	390
9 5/8			
8 5/8	2532	2532	420
7			
5 1/2			
4 1/2		4994	185
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Marcellus Depth 5200 feet
Depth of completed well 5066 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 1080 feet; Salt _____ feet
Coal seam depths: 104', 289', 452', 837' Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3460 feet
Gas: Initial open flow Trace Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 823 Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 2 hours
Static rock pressure 595 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

NOV 24 1986

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
FOAM FRAC

DATE: 1/25/84
 WATER: 892 BBLs.
 SAND: 210,000#
 PERFS: 4294' - 4891' 30 .49 Perfs
 NITROGEN: 20,180 CCF

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand			0	104	
Coal			104	108	
Sand			108	289	
Coal			289	294	
Sand			294	452	
Coal			452	456	
Sand & Shale			456	473	
Sand			473	564	
Sand & Shale			564	837	
Coal			837	841	
Sand & Shale			841	870	
Shale			870	923	
Coal - Mine			923	930	
Sand & Shale			930	2146	
Red Rock			2146	2182	
Sand & Shale			2182	2489	
Big Lime			2489	2767	
Big Injun			2767	2790	
Sand & Shale			2790	2948	
Weir			2948	2994	
Sand & Shale			2994	3344	
Sudbury Shale			3344	3386	
Berea			3386	3460	
Gray Shale			3460	4300	
Brown Shale			4300	4890	
Marcellus			4890	5066	T.D.
					GR log - from 1620K8
					395 3385
					401 3392
					810 4306
					822 4593
					825 4712
					830 4892
					461 5050

(Attach separate sheets as necessary)

Seneca-Upshur Petroleum Company

Well Operator

By: 

Date: February 16, 1984

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including ..., encountered in the drilling of a well."



1) Date: May 24, 19 83
 2) Operator's Well No. C-72
 3) API Well No. 47 - 059 - 1066
 State _____ County _____ Permit _____

DRILLING CONTRACTOR:

Little Swiss Drilling Co.
Buckhannon, WV 26201

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 1610' Watershed: Laurel Fork
 District: Hardee County: Mingo Quadrangle: Myrtle
- 6) WELL OPERATOR Seneca-Upshur Petroleum, Inc. 11) DESIGNATED AGENT Joseph G. Hager
 Address P.O. Box 2048 Address P.O. Box 2048
Buckhannon, West Virginia 26201 Buckhannon, West Virginia 26201
- 7) OIL & GAS ROYALTY OWNER Cotiga Development Company 12) COAL OPERATOR None
 Address 2nd Floor Rear, 14 E. Lancaster Ave. Address _____
Paoli, Pennsylvania 19301
- 8) SURFACE OWNER Georgia-Pacific 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address P.O. Box 1808 Name Island Creek Coal Company
Augusta, Georgia 30909 Address Paintsville, Kentucky 41240
 Acreage 1030 Name _____
 Address _____
- 9) FIELD SALE (IF MADE) TO:
 Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Arthur St. Clair Address _____
P.O. Box 157
Brenton, West Virginia 24818
- 15) PROPOSED WORK: Drill X / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____ /
 Plug off old formation _____ / Perforate new formation _____ /
 Other physical change in well (specify) _____
- 16) GEOLOGICAL TARGET FORMATION, Marcellus
- 17) Estimated depth of completed well, 5200 feet
- 18) Approximate water strata depths: Fresh, 550 feet; salt, 950 feet.
- 19) Approximate coal seam depths: 320 Is coal being mined in the area? Yes _____ / No X /

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well			
Conductor	16"				X	20	20	To Surface	Kinds	
Fresh water										
Coal									Sizes	
Intermediate	8 5/8"		23.00	X		2490	2490	To Surface		
Production	4 1/2"		23.00	X			5200	As Required	Depths set	
Tubing								by Rule 15.0		
Liners									Perforations:	
									Top	Bottom

21) EXTRACTION RIGHTS

Check and provide one of the following:

- Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)

24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: [Signature]

Signed: [Signature]

My Commission Expires June 6, 1983

Its: Vice President

In and for the State of West Virginia.

OFFICE USE ONLY

Permit number 47-059-1066 **DRILLING PERMIT** Date June 24, 19 83

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector.** (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires _____ unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee

Administrator, Office of Oil and Gas