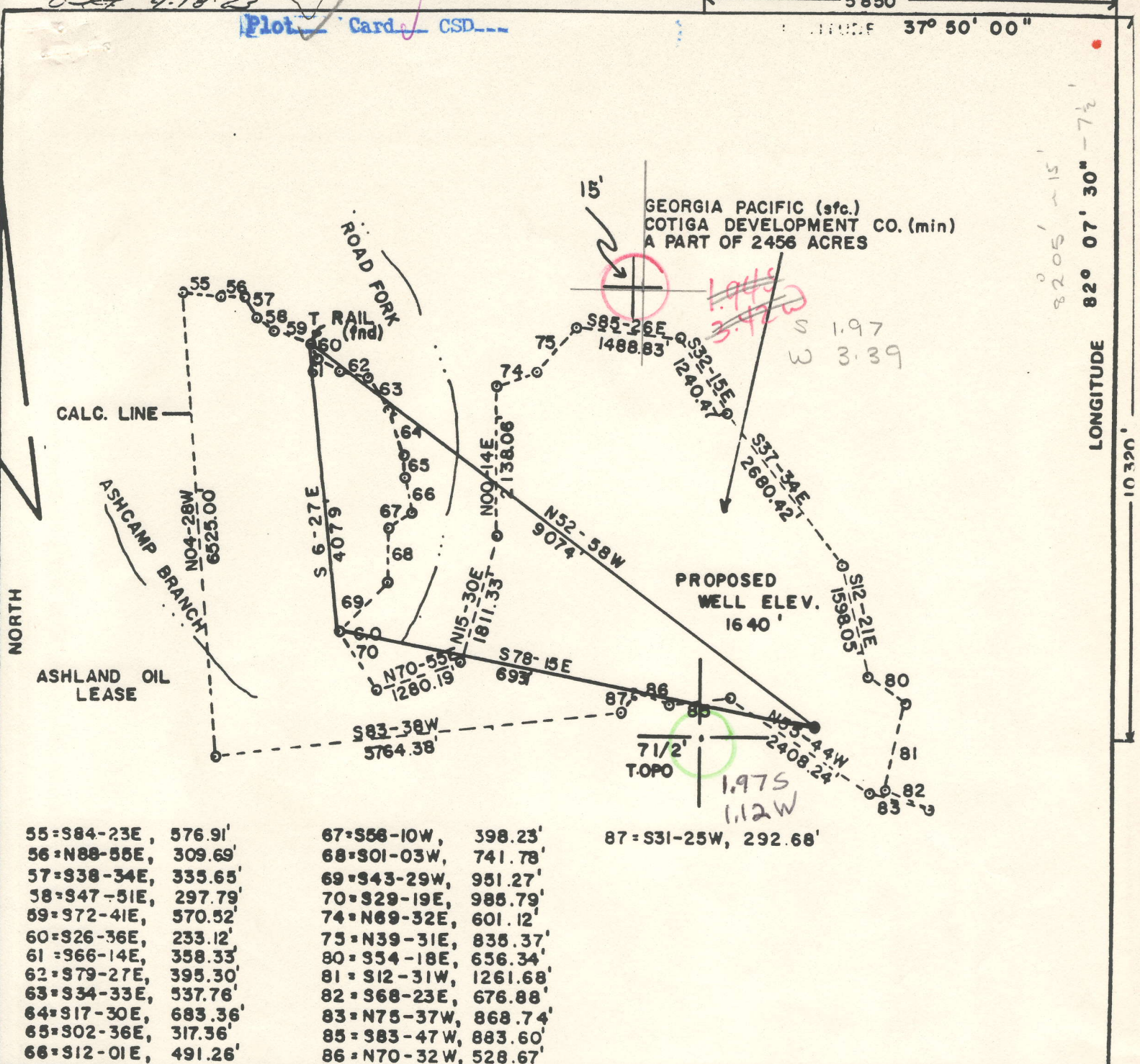


4-18-83

Plot Card CSD

5850' 37° 50' 00"



FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=2000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION USGS BM TRACEFORK 665, USGS 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) Wayne D. Parker
 R.P.E. _____ L.L.S. 624
Norton Surveys & Consulting, Inc.

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE APRIL 4, 19 83
 OPERATOR'S WELL NO. C-39
 API WELL NO. _____
47 - 059 - 1050
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 1640' WATER SHED LAUREL FORK
 DISTRICT HARVEY COUNTY MINCO
 QUADRANGLE MYRTLE
 SURFACE OWNER GEORGIA PACIFIC ACREAGE A PART OF 2456
 OIL & GAS ROYALTY OWNER COTIGA DEVELOPMENT CO. LEASE ACREAGE A PART OF 2456
 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 5000'
 WELL OPERATOR SENECA ENERGY PET. INC. DESIGNATED AGENT JOSEPH HABER
 ADDRESS P.O. BOX 2048 BUCKHANNON, W.VA. 26201 ADDRESS P.O. BOX 2048 BUCKHANNON, W.VA. 26201
6-6 Dempsey School (368)
APR 25 1983

MINCO 1050

IV-35
(Rev 8-81)

Rev.
11/27/84
FERC



State of West Virginia
Department of Mines
Oil and Gas Division

Date October 14, 1983
Operator's
Well No. C-39
Farm _____
API No. 47 - 059 - 1050

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: 1640' Watershed Laurel Fork
District: Harvey County Mingo Quadrangle Myrtle

COMPANY Seneca-Upshur Petroleum, Inc.
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.W., Atlanta, GA
MINERAL RIGHTS OWNER Cotiga Development Company
ADDRESS 2nd Floor Rear, 14 E. Lancaster Ave.
Paoli, Pennsylvania 19301
OIL AND GAS INSPECTOR FOR THIS WORK Arthur
St. Clair ADDRESS P.O. Box 157, Brenton, WV
PERMIT ISSUED 4/21/83
DRILLING COMMENCED 9/10/83
DRILLING COMPLETED 9/21/83

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.	20	20	10
13-10"			
9 5/8			
8 5/8	2496	2496	500
7			
5 1/2			
4 1/2		4949	85
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Marcellus Depth 5000 feet
Depth of completed well 5006 feet Rotary X / Cable Tools _____
Water strata depth: Fresh _____ feet; Salt _____ feet
Coal seam depths: 330', 386', 928', 987' Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3422 feet
Gas: Initial open flow Trace Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 959 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 2 hours

Static rock pressure 510 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

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

FOAM FRAC:

DATE: 9/29/83

WATER: 812 BBLs.

SAND: 175,000#

PERFS: 4254' - 4832' 33 .49 Perfs

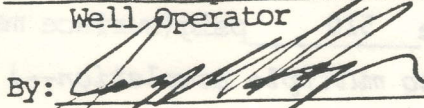
NITROGEN: 18,640 CCF

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 & Shale			0	330	
Coal			330	333	
Sand			333	386	
Coal			386	390	
Sand & Shale			390	928	
Coal			928	930	
Sand & Shale			930	987	
Coal			987	990	
Sand & Shale			990	2472	
Big Lime			2472	2750	
Big Injun			2750	2786	
Sand & Shale			2786	2918	
Weir			2918	2970	
Sand & Shale			2970	3320	
Sudbury Shale			3320	3422	
Gray Shale			3422	4260	
Brown Shale			4260	4834	
Marcellus			4834	5006	T.D.
					GR log from 1650' KB.
					395 3358
					401 3367
					810 4270
					822 4548
					825 4665
					830 4839

(Attach separate sheets as necessary)

Seneca-Upshur Petroleum, Inc.
Well Operator

By: 
Date: October 14, 1983

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: April 5, 19 83
 2) Operator's Well No. 12-30
 3) API Well No. 47 State West Virginia County Wetzel Permit 059-1050

DRILLING CONTRACTOR:

Little Swiss Drilling Co.
P.O. Box 2048, Buckhannon, WV

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: 1640' Watershed: Laurel Park
 District: Harvey County: Mingo Quadrangle: Myrtle
- 6) WELL OPERATOR Seneca-Oakstar 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 Coriga Development Company 12) COAL OPERATOR None
 Address 2nd Floor Near, 14 East Lancaster Ave. Address
Pooll, Pennsylvania 19301
 Acreage Part of 2,456
- 8) SURFACE OWNER Georgia-Pacific 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address P.O. Box 1308 Name Island Creek Coal Company
Augusta, Georgia 30909 Address Paintsville, Kentucky 41240
 Acreage Part of 2,456
- 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 24813
- 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name None
 Address
- 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, 5,000 feet
 18) Approximate water strata depths: Fresh, 640 feet; salt, 1040 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	<u>10"</u>				<u>X</u>	<u>20</u>	<u>20</u>	<u>10 SURFACE</u>	Kinds	
Fresh water						<u>670</u>	<u>116</u>	<u>0.5</u>	SIZES	
Coal						<u>2570</u>	<u>2570</u>	<u>10 SURFACE</u>	Depths set	
Intermediate	<u>5 5/8"</u>		<u>23.00</u>	<u>X</u>				<u>AS REQUIRED</u>	Perforations:	
Production	<u>1 1/2"</u>		<u>23.00</u>	<u>X</u>				<u>BY RULE 15.0</u>	Top	Bottom
Tubing										
Liners										

- 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. On File 059-1017
 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: Signed:
 My Commission Expires June 6, 1988 Its: Vice President

OFFICE USE ONLY

Permit number 47-059-1050 DRILLING PERMIT Date April 5, 1983

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:
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Administrator, Office of Oil and Gas