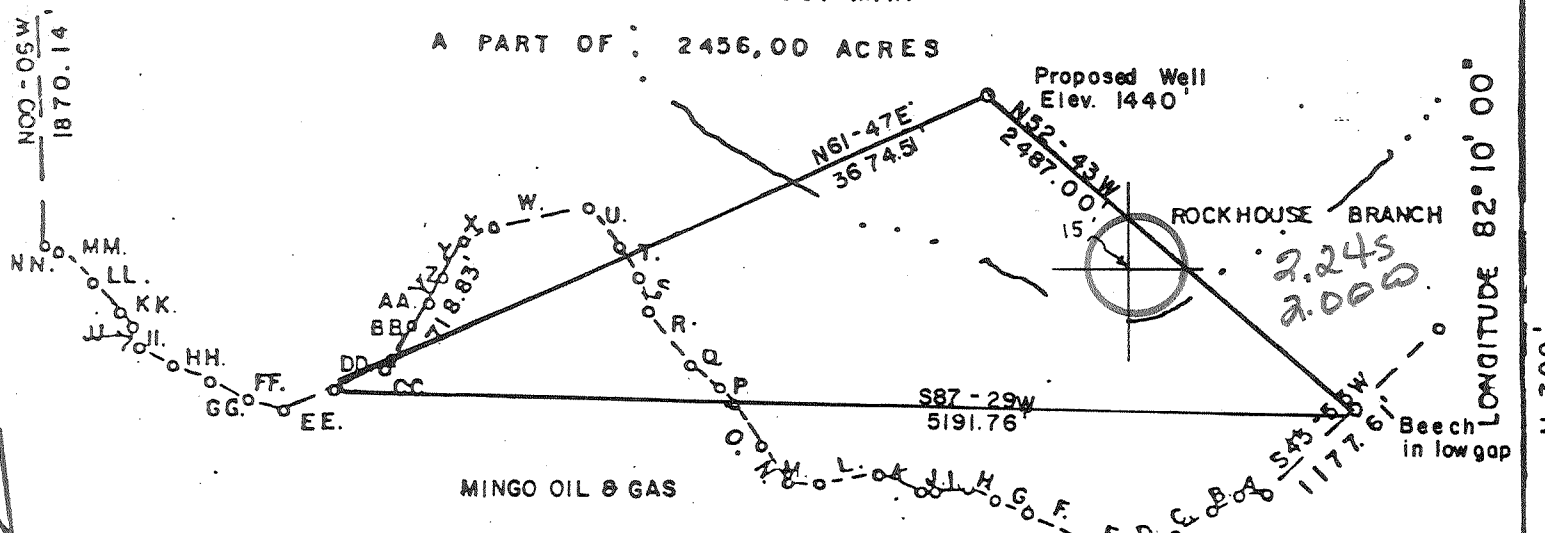


GEORGIA-PACIFIC etc.
 COTIGA DEVELOPMENT CO. m/n.
 A PART OF 2,456.00 ACRES



| | | | | | |
|-----|----------|--------------------|-----|----------|---------|
| A. | S87-51W, | 125.20' | Q. | N52-47W, | 188.29' |
| B. | S62-22W, | 144.71' | R. | N37-55W, | 334.04' |
| C. | S55-31W, | 207.30' | S. | N30-57W, | 177.20' |
| D. | S65-50W, | 222.46' | T. | N31-10W, | 181.42' |
| E. | N73-17W, | 208.17' | U. | N38-41W, | 241.95' |
| F. | N63-04W, | 277.36' | V. | S70-04W, | 72.40' |
| G. | N68-09W, | 167.90' | W. | S77-30W, | 410.36' |
| H. | N65-46W, | 127.75' | X. | S62-13W, | 159.79' |
| J. | S64-46W, | 180.86' | Y. | S29-16W, | 213.47' |
| J. | S78-42W, | 53.40' | Z. | S23-04W, | 135.81' |
| K. | N65-46W, | 221.51' | AA. | S35-14W, | 133.15' |
| L. | S78-41W, | 222.84' 7.5' Topo. | BB. | S29-35W, | 157.77' |
| M. | N63-44W, | 133.43' | CC. | S46-18W, | 78.36' |
| N. | N30-22W, | 214.60' | DD. | S64-32W, | 276.03' |
| O. | N32-24W, | 258.95' | EE. | S67-36W, | 275.34' |
| P. | N44-21W, | 92.18' | FF. | N74-58W, | 194.96' |
| MM. | N43-21W, | 201.60' | GG. | N60-52W, | 200.65' |
| NN. | N64-10W, | 73.51' | HH. | N71-10W, | 192.92' |
| | | | II. | N62-16W, | 179.96' |
| | | | JJ. | N13-52W, | 111.13' |
| | | | KK. | N35-38W, | 83.44' |
| | | | LL. | N40-44W, | 184.52' |

374805
 821210

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200'
 PROVEN SOURCE OF ELEVATION USGS BM TRACE
 FORK665, 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) Raymond W. Nolen
 R.P.E. _____ L.L.S. 624

PLACE SEAL HERE

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



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE JANUARY 7, 1982
 OPERATOR'S WELL NO. C-33
 API WELL NO. _____
47 - 059 - 1007
 STATE COUNTY PERMIT

was: 1002

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1440 WATER SHED ROCKHOUSE BRANCH
 DISTRICT HARDEE COUNTY MINGO
 QUADRANGLE MYRTLE Nolen 15' SW

SURFACE OWNER GEORGIA PACIFIC ACREAGE A Part of 2,456
 OIL & GAS ROYALTY OWNER COTIGA DEVELOPMENT CO. LEASE ACREAGE A Part of 2,456
 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 DEVONIAN SHALE ESTIMATED DEPTH 5000'
 WELL OPERATOR SENECA-UPSHUR PET INC. DESIGNATED AGENT JOSEPH HAGER
 ADDRESS P.O. BOX P BUCKHANNON, W. Va. 26201 ADDRESS P.O. BOX P BUCKHANNON, W. Va. 26201

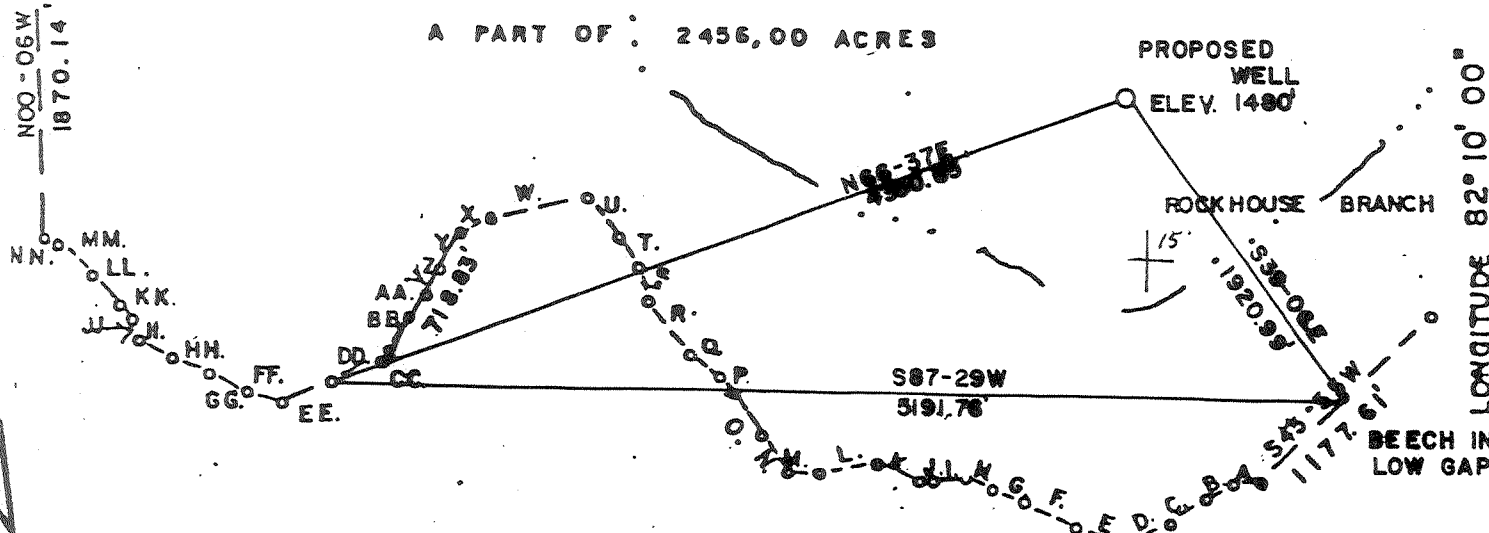
WU DEMPSEY SCH 368
 FEB 22 1982
 244

CODE _____ CARD _____ PLOT _____

GEORGIA-PACIFIC etc.

COTIGA DEVELOPMENT CO. m/n.

A PART OF: 2,456.00 ACRES



| | | | | | |
|-----|----------|---------|-----|----------|---------|
| A. | S87-51W, | 125.20' | Q. | N52-47W, | 188.29' |
| B. | S62-22W, | 144.71' | R. | N77-55W, | 334.04' |
| C. | S55-31W, | 207.30' | S. | N10-57W, | 177.20' |
| D. | S65-50W, | 222.46' | T. | N31-10W, | 181.42' |
| E. | N73-17W, | 208.17' | U. | N38-41W, | 241.95' |
| F. | N63-01W, | 277.36' | V. | S76-04W, | 72.40' |
| G. | N68-09W, | 167.90' | W. | S77-30W, | 410.36' |
| H. | N65-16W, | 127.75' | X. | S62-13W, | 159.79' |
| I. | S64-16W, | 180.86' | Y. | S23-16W, | 213.47' |
| J. | S78-12W, | 53.49' | Z. | S23-01W, | 135.81' |
| K. | N65-16W, | 221.51' | AA. | S35-14W, | 138.15' |
| L. | S78-41W, | 292.84' | BB. | S29-35W, | 157.77' |
| M. | N68-14W, | 133.48' | CC. | S46-18W, | 78.36' |
| N. | N38-22W, | 214.60' | DD. | S64-32W, | 276.03' |
| O. | N32-21W, | 258.93' | EE. | S67-36W, | 275.34' |
| P. | N44-21W, | 92.18' | FF. | N74-58W, | 194.96' |
| MA. | N43-21W, | 201.60' | GG. | N60-52W, | 200.65' |
| NN. | N64-10W, | 73.51' | HH. | N71-10W, | 198.92' |
| | | | II. | N62-16W, | 179.96' |
| | | | JJ. | N13-52W, | 111.13' |
| | | | KK. | N35-38W, | 88.44' |
| | | | LL. | N40-44W, | 184.52' |

FILE NO. _____

DRAWING NO. _____

SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY 1 in 200'

PROVEN SOURCE OF ELEVATION USGS BM TRACE FORK 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) [Signature]

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-B (8-78)



DATE NOVEMBER 21, 19 81

OPERATOR'S WELL NO. C-33

API WELL NO. _____

47 - 059 - 1002

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 1480' WATER SHED ROCKHOUSE BRANCH

DISTRICT HARDEE COUNTY MINGO

QUADRANGLE MYRTLE

SURFACE OWNER GEORGIA PACIFIC ACREAGE A Part of 2,456

OIL & GAS ROYALTY OWNER COTIGA DEVELOPMENT CO. LEASE ACREAGE A Part of 2,456

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 Dempsey School (368)

TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5000' MARCELLUS

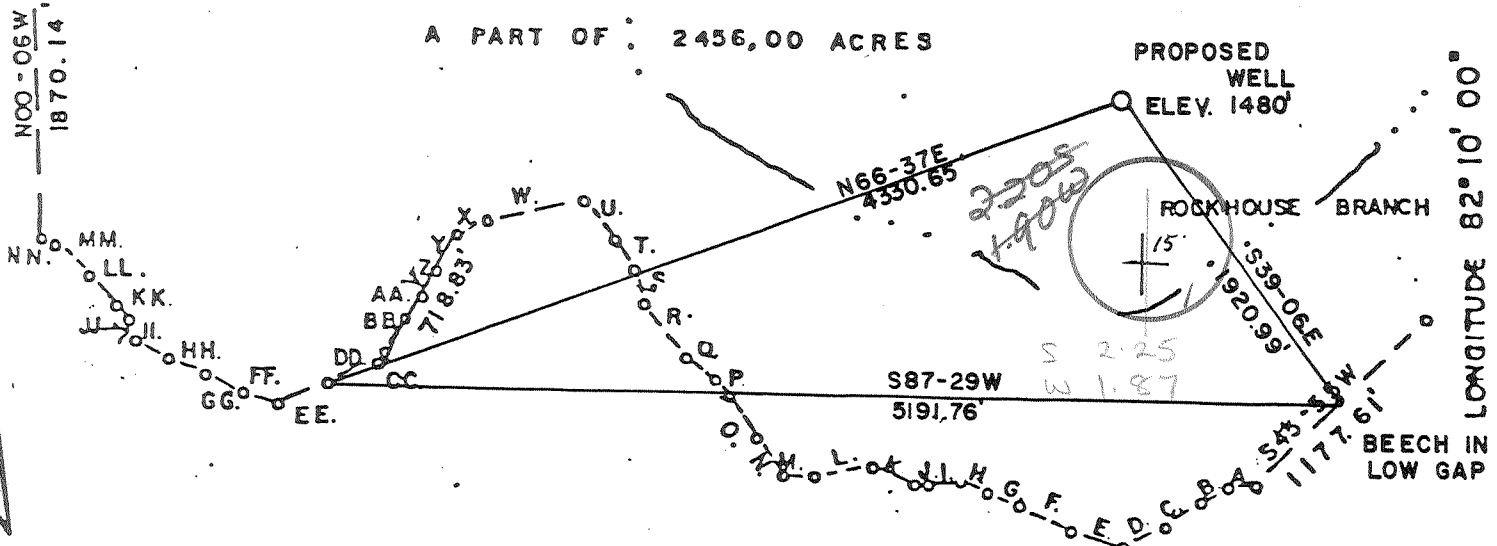
WELL OPERATOR SENECA-UPSHUR PET. INC. DESIGNATED AGENT JOSEPH HAGER

ADDRESS P.O. BOX P BUCKHANNON, W. Va. 26201 ADDRESS P.O. BOX P BUCKHANNON, W. Va. 26201

GEORGIA-PACIFIC etc.

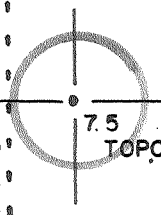
COTIGA DEVELOPMENT CO. min.

A PART OF 2,456.00 ACRES



NORTH

| | | | | | |
|-----|----------|---------|-----|----------|---------|
| A. | S87-51W, | 125.20' | Q. | N52-47W, | 188.29' |
| B. | S62-22W, | 144.71' | R. | N37-55W, | 334.04' |
| C. | S55-31W, | 207.30' | S. | N30-57W, | 177.20' |
| D. | S65-50W, | 222.46' | T. | N31-10W, | 181.42' |
| E. | N73-17W, | 268.17' | U. | N38-41W, | 241.95' |
| F. | N63-04W, | 277.36' | V. | S76-04W, | 72.40' |
| G. | N68-09W, | 167.90' | W. | S77-30W, | 410.36' |
| H. | N65-46W, | 127.75' | X. | S62-13W, | 159.79' |
| J. | S64-46W, | 180.86' | Y. | S29-16W, | 213.47' |
| J. | S78-42W, | 53.49' | Z. | S23-07W, | 135.81' |
| K. | N65-46W, | 271.51' | AA. | S35-14W, | 138.15' |
| L. | S78-41W, | 272.84' | BB. | S29-35W, | 157.77' |
| M. | N68-44W, | 133.48' | CC. | S46-18W, | 78.36' |
| N. | N30-22W, | 214.60' | DD. | S64-32W, | 276.03' |
| O. | N32-24W, | 258.93' | EE. | S67-36W, | 275.34' |
| P. | N44-21W, | 92.18' | FF. | N74-58W, | 194.96' |
| MM. | N43-21W, | 201.60' | GG. | N60-52W, | 200.65' |
| NN. | N64-10W, | 73.51' | HH. | N71-10W, | 198.92' |
| | | | II. | N62-16W, | 179.96' |
| | | | JJ. | N13-52W, | 111.13' |
| | | | KK. | N35-38W, | 88.44' |
| | | | LL. | N40-44W, | 184.52' |



S 2.25
W 1.87

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200'
 PROVEN SOURCE OF ELEVATION USGS BM TRACE
 FORK 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) Raymond D. Forster
 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 NOVEMBER 21, 19 81
 OPERATOR'S WELL NO. C-33
 API WELL NO. _____
47 - 059 - 1002
 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 1480' WATER SHED ROCKHOUSE BRANCH
 DISTRICT HARDEE COUNTY MINGO
 QUADRANGLE MYRTLE Holden 15' SW
 SURFACE OWNER GEORGIA PACIFIC ACREAGE A Part of 2,456
 OIL & GAS ROYALTY OWNER COTIGA DEVELOPMENT CO. LEASE ACREAGE A Part of 2,456
 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 DEVONIAN SHALE ESTIMATED DEPTH 5000' MARCELLUS
 WELL OPERATOR SENECA-UPSHUR PET. INC. DESIGNATED AGENT JOSEPH HAGER

(368) JAN - 8 1982



IV-35
(Rev 8-81)

Date June 4, 1982
Operator's
Well No. C-33
Farm _____
API No. 47 - 059 - 1007

State of West Virginia
Department of Mines
Oil and Gas Division

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: 1440' Watershed Rockhouse Branch
District: Hardee County Mingo Quadrangle Myrtle

COMPANY Seneca-Upshur Petroleum, Inc.
ADDRESS P.O. Box 2048, Buckhannon, WV 26201
DESIGNATED AGENT Seneca-Upshur Petroleum, Inc.
ADDRESS P.O. Box 2048, Buckhannon, WV 26201
SURFACE OWNER Georgia-Pacific
ADDRESS P.O. Box 1808, Augusta, Georgia 30909
MINERAL RIGHTS OWNER Cotiga Development Co.
ADDRESS 24 Darby Road, Paoli, PA 19301
OIL AND GAS INSPECTOR FOR THIS WORK Arthur
St. Clair ADDRESS P.O. Box 157, Brenton, WV
PERMIT ISSUED January 27, 1982
DRILLING COMMENCED February 26, 1982
DRILLING COMPLETED March 5, 1982
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. | 15 | 15 | 10 |
| 13-10" | | | |
| 9 5/8 | | | |
| 8 5/8 | 2451 | 2451 | 500 |
| 7 | | | |
| 5 1/2 | | | |
| 4 1/2 | | | |
| 3 | | | |
| 2 | | | |
| Liners used | OIL AND GAS DIVISION WV DEPARTMENT OF MINES | | |

GEOLOGICAL TARGET FORMATION Marcellus Depth 5000 feet
Depth of completed well 4809 feet Rotary x / Cable Tools _____
Water strata depth: Fresh _____ feet; Salt _____ feet
Coal seam depths: 73, 124, 215, 255, 475, 838, 932 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 5000 feet
Gas: Initial open flow Trace Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 762 Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 2 hours
Static rock pressure 610 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

JUN 22 1982

(Continue on reverse side)

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

| | | |
|-----------|-----------|-----------|
| DATE: | 5/11/82 | 5/18/82 |
| NITROGEN: | 8450 SCF | 9000 SCF |
| SAND: | 90,000# | 120,000# |
| WATER: | 408 BBLs. | 451 BBLs. |
| PERFS: | 12 | 12 |

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 | 73 | |
| Coal | | | 73 | 75 | |
| Sand & Shale | | | 75 | 124 | |
| Coal | | | 124 | 127 | |
| Sand & Shale | | | 127 | 153 | |
| Sand | | | 153 | 215 | |
| Coal | | | 215 | 220 | |
| Sand | | | 220 | 255 | |
| Coal | | | 255 | 258 | |
| Sand & Shale | | | 258 | 475 | |
| Coal | | | 475 | 479 | |
| Sand & Shale | | | 479 | 838 | |
| Coal | | | 838 | 843 | |
| Sand & Shale | | | 843 | 932 | |
| Coal | | | 932 | 937 | |
| Sand & Shale | | | 937 | 2209 | |
| Shale | | | 2209 | 2218 | |
| Sand | | | 2218 | 2234 | |
| Shale | | | 2234 | 2275 | |
| Sand | | | 2275 | 2348 | |
| Big Lime | | | 2348 | 2626 | |
| Big Injun | | | 2626 | 2684 | |
| Sand & Shale | | | 2684 | 2840 | |
| Weir | | | 2840 | 2912 | |
| Sand & Shale | | | 2912 | 3256 | |
| Sudbury Shale | | | 3256 | 3320 | |
| Berea | | | 3320 | 3410 | |
| Gray Shale | | | 3410 | 4140 | |
| Brown Shale | | | 4140 | 4660 | |
| Marcellus | | | 4660 | 4809 | |

PHINESTREET

(Attach separate sheets as necessary)

Seneca-Upshur Petroleum, Inc.

Well Operator

By:

[Signature]

Date:

June 4, 1982

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 those encountered in the drilling of a well."



Well No. C-33
Farm _____
API # 47 - 059 - 1002
Date December 1, 1981

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil ___ / Gas X /
(If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow X /

LOCATION: Elevation: 1480' Watershed: Rockhouse Branch
District: Hardee County: Mingo Quadrangle: Myrtle

WELL OPERATOR Seneca-Upshur Petroleum, Inc. DESIGNATED AGENT Seneca-Upshur Petroleum, Inc.
Address P.O. Drawer P Address P.O. Drawer P
Buckhannon, West Virginia 26201 Buckhannon, West Virginia 26201

OIL AND GAS ROYALTY OWNER Cotiga Development Company COAL OPERATOR None
Address 24 Darby Road Address _____
Paoli, Pennsylvania 19301

ACREAGE Part of 2,456.00
SURFACE OWNER Georgia-Pacific, Exchange Oil & Gas COAL OWNER(S) WITH DECLARATION ON RECORD:
Address 1250 Poydras St., 24th Floor NAME Island Creek Coal Company
New Orleans, Louisiana 70112 Address Pantsville, Kentucky 41240

ACREAGE Part of 2,456.00
FIELD SALE (IF MADE) TO:
NAME _____
Address _____
COAL LESSEE WITH DECLARATION ON RECORD:
NAME None
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Arthur St. Clair
Address P.O. Box 157
Brenton, West Virginia 24818
Telephone 732-6227

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease X / other contract ___ / dated Aug. 1, 1979, to the undersigned well operator from Cotiga Development Company.

(If deed, lease, or other contract has been recorded:)

Recorded on _____, 19____, in the office of the Clerk of County Commission of _____ County, West Virginia, in _____ Book at page _____. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill Deeper ___ / Redrill ___ / Fracture or stimulate ___ / Plug off old formation ___ / Perforate new formation ___ / Other physical change in well (specify) _____

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after receipt of this Application by the Dept. 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 lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1113 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

BLANKET BOND

Seneca-Upshur Petroleum, Inc.
Well Operator
By: [Signature]
Its: Vice President

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Little Swiss Drilling Company

Address P.O. Drawer P
Buckhannon, West Virginia 26201

GEOLOGICAL TARGET FORMATION Marcellus

Estimated depth of completed well 5000 feet. Rotary x / Cable tools /
Approximate water strata depths: Fresh, feet; salt, feet.
Approximate coal seam depths:
Is coal being mined in this area: Yes / No x /

CASING AND TUBING PROGRAM

| CASING OR TUBING TYPE | SPECIFICATIONS | | | | FOOTAGE INTERVALS | | CEMENT FILL UP OR SACKS Cubic ft. | PACKERS |
|-----------------------|----------------|-------|---------------|-----|-------------------|--------------|-----------------------------------|--------------------------------------|
| | Size | Grade | Weight per ft | New | Used | For Drilling | | |
| Conductor | 16" | | | | X | 20 | 20 | To Surface Kinds |
| Fresh water | | | | | | | | |
| Coal | 11 3/4" | | | X | | 670 | 670 | To Surface Sizes |
| Intermed. | 8 5/8" | | 20.00 | X | | 2450 | 2450 | To Surface |
| Production Tubing | 4 1/2" | | 10.50 | X | | | 5000 | As Required Depths set by Rule 15.01 |
| Liners | | | | | | | | Perforations: Top Bottom |

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 8-17-82

[Signature]
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided the well operator has complied with all applicable requirements of the West Virginia Code and the governing regularions.

Date: , 19 .

By:

Its:



Well No. C-33
Farm _____
API # 47 - 059 - 1007
Date: January 11, 1982

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil ___ / Gas X /
(If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow X /

LOCATION: Elevation: 1440' Watershed: Rockhouse Branch
District: Hardee County: Mingo Quadrangle: Myrtle

WELL OPERATOR Seneca-Upshur Petroleum, Inc. DESIGNATED AGENT Seneca-Upshur Petroleum, Inc.
Address P.O. Drawer P Address P.O. Drawer P
Buckhannon, West Virginia 26201 Buckhannon, West Virginia 26201

OIL AND GAS ROYALTY OWNER Cotiga Development Company COAL OPERATOR None
Address 24 Darby Road Address _____
Paoli, Pennsylvania 19301

ACREAGE Part of 2,456
SURFACE OWNER Georgia-Pacific COAL OWNER(S) WITH DECLARATION ON RECORD:
Address P.O. Box 1808 NAME Island Creek Coal Company
Augusta, Georgia 30909 Address Pantsville, Kentucky 41240
ACREAGE Part of 2,456

FIELD SALE (IF MADE) TO:
NAME _____
Address _____
COAL LESSEE WITH DECLARATION ON RECORD:
NAME None
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Arthur St. Clair
Address P.O. Box 157
Brenton, West Virginia 24818
Telephone 732-6227

RECEIVED

JAN 12 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease X / other contract ___ / dated Aug. 1, 1979, to the undersigned well operator from Cotiga Development Company.

(If said deed, lease, or other contract has been recorded:)

Recorded on _____, 19___, in the office of the Clerk of County Commission of _____ County, West Virginia, in _____ Book at page _____. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill Deeper ___ / Redrill ___ / Fracture or stimulate ___ / Plug off old formation ___ / Perforate new formation ___ / Other physical change in well (specify) _____

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after receipt of this Application by the Dept. 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 lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

Seneca-Upshur Petroleum, Inc.
Well Operator
By: [Signature]
Its: Vice President

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Little Swiss Drilling Company

Address P.O. Drawer P

Buckhannon, West Virginia 26201

GEOLOGICAL TARGET FORMATION Marcellus

Estimated depth of completed well 5000 feet. Rotary / Cable tools /
Approximate water strata depths: Fresh, 80 feet; salt, 2300 feet.
Approximate coal seam depths: 320
Is coal being mined in this area: Yes / No /

CASING AND TUBING PROGRAM

| CASING OR TUBING TYPE | SPECIFICATIONS | | | | | FOOTAGE INTERVALS | | CEMENT FILL- UP OR SACKS Cubic ft. | PACKERS |
|-----------------------|----------------|-------|---------------|-----|------|-------------------|--------------|---|-----------------------------|
| | Size | Grade | Weight per ft | New | Used | For Drill- ling | Left in Well | | |
| Conductor | 16" | | | | X | 30 | 30 | To Surface | Kinds |
| Fresh water | | | | | | | | | |
| Coal | | | | | | | | | Sizes |
| Intermed. | 8 5/8" | | 23.00 | X | | 2370 | 2370 | To Surface | |
| Production | 4 1/2" | | 23.00 | X | | | 4850 | As Required Depths set by Rule 15.01 | |
| Tubing | | | | | | | | | |
| Liners | | | | | | | | | Perforations: Top Bottom |

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 9-27-82.

J. G. Mussey
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided the well operator has complied with all applicable requirements of the West Virginia Code and the governing regularions.

Date: , 19 .

By: _____

Its: _____