





IV-35  
(Rev 8-81)

RECEIVED  
AUG 22 1984

State of West Virginia  
Department of Mines  
OIL & GAS DIVISION Oil and Gas Division  
DEPT. OF MINES

Date September 26, 1983

Operator's  
Well No. C-58

Farm \_\_\_\_\_

API No. 47 - 059 - 1052

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: 1520' Watershed Riffe Branch

District: Hardee 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 St., N.E., Atlanta, GA

MINERAL RIGHTS OWNER Cotiga Development Co.

ADDRESS 2nd Flr. Rear, 14 East Lancaster Ave.

OIL AND GAS INSPECTOR FOR THIS WORK Arthur

St. Clair ADDRESS P.O. Box 157, Brenton, WV

PERMIT ISSUED May 24, 1983

DRILLING COMMENCED August 27, 1983

DRILLING COMPLETED September 4, 1983

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	2372	2372	500
7			
5 1/2			
4 1/2		4597	175
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Marcellus Depth 5000 feet

Depth of completed well 4871' feet Rotary X / Cable Tools \_\_\_\_\_

Water strata depth: Fresh 95 feet; Salt \_\_\_\_\_ feet

Coal seam depths: 18', 115', 186', 344', 430', 560', 583', 611', 624', 752', 813', 888', 994' Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3336 feet

Gas: Initial open flow Trace Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 972 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

SEP 21 1983

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

FOAM FRAC:

DATE: 9/13/83  
 WATER: 819 BBLs.  
 SAND: 210,000#  
 PERFS: 3866'-4430' Huron 29 .49"  
 NITROGEN: 23,180 CCF

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS	
					Including indication of all free and salt water, coal, oil and gas	
Sand & Shale			0	18	Sand & Shale	2868 3220
Coal			18	20	Sudbury Shale	3220 3290
Sand & Shale			20	115	Berea	3290 3336
Coal			115	119	Gray Shale	3336 4110
Sand & Shale			119	186	Brown Shale	4110 4700
Coal			186	191	Marcellus	4700 4871
Shale			191	197		
Sand			197	283		
Sand & Shale			283	292		Huron @ TD
Sand			292	344		Onondaga at
Coal			344	346		4871 4850' (elev =
Sand & Shale			346	430		3336 1530 Kib)
Coal			430	434		1535 according to
Sand & Shale			434	560		log
Coal			560	563		
Sand & Shale			563	583		
Coal			583	586		from 8-ray: tops.
Shale			586	611	Sudbury	3224
Coal			611	615	Berea	3257
Shale			615	624		
Coal			624	627	Up. Dev undep.	3289
Shale			627	752	Huron	4152
Coal			752	760	Janes	4412
Shale			760	813	Angela	4529
Coal			813	820	Plumstead	4705
Sand & Shale			820	888		
Coal			888	891		
Sand & Shale			891	994		
Coal			994	998		
Sand & Shale			998	1520		
Sand			1520	1669		
Sand & Shale			1669	2141		
Red Rock			2141	2155		
Sand & Shale			2155	2333		
Big Lime			2333	2611		
Big Injun			2611	2565		
Sand & Shale			2565	2804		
Weir			2804	2868		

(Attach separate sheets as necessary)

Seneca-Upshur Petroleum, Inc.

Well Operator

By: 

Date: September 26, 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 18, 1983  
 2) Operator's Well No. C-58  
 3) API Well No. 47 - ~~1052~~ - 1052  
 State \_\_\_\_\_ County \_\_\_\_\_ Permit 059

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 1520' / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow X /)
- 5) LOCATION: Elevation: \_\_\_\_\_ Watershed: \_\_\_\_\_  
 District: \_\_\_\_\_ County: \_\_\_\_\_ Quadrangle: \_\_\_\_\_
- 6) WELL OPERATOR \_\_\_\_\_  
 Address \_\_\_\_\_
- 11) DESIGNATED AGENT \_\_\_\_\_  
 Address \_\_\_\_\_
- 7) OIL & GAS ROYALTY OWNER Cotiga Development Company  
 Address \_\_\_\_\_  
 Acreage Part of 2,456
- 12) COAL OPERATOR \_\_\_\_\_  
 Address \_\_\_\_\_
- 8) SURFACE OWNER Georgia-Pacific  
 Address \_\_\_\_\_  
 Acreage Part of 2,456
- 13) COAL OWNER(S) WITH DECLARATION ON RECORD:  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_
- 9) FIELD SALE (IF MADE) TO:  
 Address \_\_\_\_\_
- 14) COAL LESSEE WITH DECLARATION ON RECORD:  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name \_\_\_\_\_  
 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, 480 feet; salt, 880 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	5 3/8"		23.00	X		2410	2410	To Surface		
Production	1 1/2"		23.00	X			5000	As Required by 15.01	Depths set	
Tubing										
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: \_\_\_\_\_ Signed: \_\_\_\_\_  
 My Commission Expires \_\_\_\_\_ Its: \_\_\_\_\_

OFFICE USE ONLY  
**DRILLING PERMIT**

Permit number 47-059-1052 Date May 3 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>5000</u>

Administrator, Office of Oil and Gas