

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Chet Waterman

Company CARL E. SMITH, INC.
 Address SANDYVILLE, WV
 Farm LUCY M. WHEELER
 Tract _____ Acres 225 Lease No. _____
 Well (Farm) No. 1 Serial No. (AS-78-001)
 Elevation (Spirit Level) 655'
 Quadrangle RAVENSWOOD, MT. ALTO 7 1/2
 County MASON District COLOGNE
 Engineer CHET WATERMAN
 Engineer's Registration No. 3788
 File No. 78003-431 Drawing No. _____
 Date 9/12/78 Scale 1" = 80 P

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

WELL LOCATION MAP
 FILE NO. 47-053-0163

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 — Denotes one inch spaces on border line of original tracing.

DEC 20 1978

Deep Well 1500 feet. now completed as gas well 11/23/82 (158) Mount Alto Cottageville



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

NOV 23 1978

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE November 14, 1978

Surface Owner LUCY MARGARET WHEELER

Company CARL E. SMITH, INC.

Address Mount Alto, WV 25264

Address P.O. Box 4, Sandyville, WV 25275

Mineral Owner Same

Farm Lucy M. Wheeler Acres 225

Address _____

Location (waters) Little Mill Creek

Coal Owner Same

Well No. 1 (AS-78-001) Elevation 655'

Address _____

District Coloan County Mason

Coal Operator Same

Quadrangle Ravenswood 15'

Address _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE.

INSPECTOR

TO BE NOTIFIED Kenneth Butcher

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 4-1-79.

ADDRESS R.F.D. #1, Barboursville, WV

PHONE 736-4885

Robert H. Todd

Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated June 3 1978 by Lucy M. Wheeler made to CARL E. SMITH, INC. and recorded on the 18th day of May 1978, in Mason County, Book 43 Page 267

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours, CARL E. SMITH, INC.

(Sign Name) _____

Well Operator

P. O. Box 4

Street

Sandyville

City or Town

WV 25275

State

Address
of
Well Operator

*SECTION 3 of the Code provides that if no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

47-053-0163

PERMIT NUMBER

THIS IS AN ESTIMATE ONLY

ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

SEE WORK ORDER TO DRILL REPERM FRACTURE STIMULATE

CONTRACTOR: (If Known) W. E. SMITH, INC. RESPONSIBLE AGENT C. SMITH

NAME W. E. SMITH, INC. ADDRESS P.O. Box 4, Sandyville, WV 25275

TELEPHONE (304) 273-9313 TELEPHONE (304) 273-9313

ESTIMATED DEPTH OF COMPLETED WELL 4500' ROTARY CABLE TOOL LS

PROPOSED GEOLOGICAL FORMATION Oriskany

TYPE OF WELL OIL GAS COMB STORAGE DISPOSAL

RECYCLING WATER FLOOD Other

LOGGING PROGRAM:

LOGGING TUBING	USED FOR DRILLING	LEFT IN WELL	CEMENT PLUG OR SALT WATER PLUG
3 3/4"	250'	250'	200'
7"	2100'	2100'	150'
			Per Section
			Per Section
			Per Section
			Per Section

PROPOSED FRESH WATER DEPTHS 150 FEET 180 SALT WATER FEET

PROPOSED COAL DEPTHS None Expected

COAL TO BE MINED IN THE AREA No BY WHOM

TO DRILL FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL: SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL-LOGS MUST ALSO BE SUBMITTED.

TO REPERM OR STIMULATE: OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OF OG - 1, PERFORMANCE BOND AND ORIGINAL PLAT AND ORIGINAL WELL RECORD. OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified at least 24 (24) hours in advance.

The Waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt of permit.

WAIVER: I, _____ Coal Company, Owner or Operator of the coal under this permit have examined and place on our mine maps this proposed well location.

We, the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title

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

Date: July 9

FORM IV-35
(Obverse)

Operator's Lucy Wheeler
Well No. 1-AS-78-001

[08-78]

WELL OPERATOR'S REPORT

API Well No. 47 - 053 - 0163
State County District

OF
DRILLING, REWORKING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 655 Watershed: Little Mill Creek
District: Cologne County: Mason Quadrangle: Ravenswood 15'

WELL OPERATOR Carl E. Smith, Inc. DESIGNATED AGENT Carl E. Smith, Inc.
Address P.O. Box 4 Address P.O. Box 4
Sandyville, WV 25275 Sandyville, WV 25275

PERMITTED WORK: Drill / Convert / Drill deeper / Redrill / Fracture or stimulate
Plug off old formation / Perforate new formation JUL 19 1979
Other physical change in well (specify) _____

OIL & GAS DIVISION
DEPT. OF MINES

PERMIT ISSUED ON November 29, 19 78

OIL & GAS INSPECTOR FOR THIS WORK:

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

Name Kenneth Butcher

Address RFD #1
Barboursville, WV

GEOLOGICAL TARGET FORMATION: Griskany Depth: 4500' Feet

Depth of completed well, 4309 feet Rotary / Cable Tools

Water strata depth: Fresh, 100 feet; salt, 2034 feet.

Coal seam depths: None encountered Is coal being mined in the area? No

Work was commenced March 31, 19 79, and completed _____, 19 _____

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		
Conductor	10 3/4"	H-40	32.75	X		258	258	125 sx Kinds
Fresh water								
Coal								Sizes
Intermediate	7"	K-55	20#	X		2148	2148	125 sx
Production	4 1/2"	K-55	10.5#	X		4280	4280	203 cu. ft. Depths set
Tubing								
Liners								Perforations: Top Bottom

OPEN FLOW DATA Not completed - No TD

Producing formation: _____ Pay zone depth _____ feet

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

Final open flow, _____ Mcf/d 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

[if applicable due to multiple completion--]

AUG 1 1979

Second producing formation: _____ Pay zone depth _____ feet

Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d

Final open flow, _____ Mcf/d Final open flow, _____ Bbl/d

RM IV-35
(reverse)

08-78]

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


Temporary Completion
Not completed - No IP

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Miss. Sand & Shale	-	-	0	2034	Not logged
Berea	White	Soft	2034	2058	Salt Water
Devonian Shale	Black-	Soft	2058	4007	No Show-Natural
Onondoga	White Brown	Hard	4007	4110	
Oriskany	White	Hard	4110	4118	Hard, Tite, Trace of Sand
Helderburg	White	Hard	4118	4254	Limestone
Bass Island	Buff	Hard	4254	4309	Dolonite
TOTAL DEPTH				4309	

(Attach separate sheets to complete as necessary)

Carl E. Smith, Inc.
Well Operator

By 
Thomas P. Sanders

Its Manager - Exploration & Development

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 coal, encountered in the drilling of a well."

FCRM IV-35
(Obverse)

Operator's Lucy Wheeler
Well No. 1-AS-78-001

[08-78]

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

API Well No. 47 - 053 - 0163
State County Permit

Amended

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

LOCATION: Elevation: 655 Watershed: Little Mill Creek
District: Cologne County: Mason Quadrangle: Ravenswood 15'

WELL OPERATOR Carl E. Smith, Inc. DESIGNATED AGENT Carl E. Smith, Inc.
Address P.O. Box 4 Address P.O. Box 4
Sandyville, WV 25275 Sandyville, WV 25275

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

PERMIT ISSUED ON November 29, 19 78

OIL & GAS INSPECTOR FOR THIS WORK:

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

Name Kenneth Butcher

Address RFD #1

Barboursville, WV

GEOLOGICAL TARGET FORMATION: Oriskany Depth 4500' feet

Depth of completed well, 4309 feet Rotary X / Cable Tools ___

Water strata depth: Fresh, 100 feet; salt, 2034 feet.

Coal seam depths: None encountered Is coal being mined in the area? No

Work was commenced March 31, 19 79, and completed May 5, 19 80

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	10 3/4"	H-40	32.75	X		258	258	125 sx	Winds
Fresh water									
Coal									Sizes
Intermediate	7"	K-55	20#	X		2148	2148	125 sx	
Production	4 1/2"	K-55	10.5#	X		4280	4280	203 cu. ft.	Depth set
Tubing									
Liners									Perforations:
									Top 2910 Bottom 3533

RECEIVED

SEP 3 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

OPEN FLOW DATA Not completed -- No IP

up Dev. undiv -> Huron

Producing formation Devonian Brown Shale Pay zone depth 2910-3533 feet

Gas: Initial open flow, 0 Mcf/d Oil: Initial open flow, 0 Bbl/d
Final open flow, 120 Mcf/d Final open flow, 0 Bbl/d

Time of open flow between initial and final tests, 24 hours

Static rock pressure, 400 psig (surface measurement) after 72 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 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 20 1982

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

Temporary-Completion
Not-completed--No-IP

Perforate 2910-3533 w/18 holes
HOWCO Foam Frac on 5-5-80 w/417 bbl H₂O 578,000 SCF N₂ 20,000# 80/100 sd,
60,000# 20/40 sd, 1,000 gal. HCl, 10 gal. Cla-Sta B
BD 1,000# ATP 1656# ATR 127 bpm H₂O 75% Quality Foam ISICP 800#

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Miss. Sand & Shale	-	-	0	2034	Not logged
Devonian Shale	White	Soft	2034	2058	Salt Water
Devonian Shale	Black-Brown	Soft	2058	4007	No Show-Natural
Devonian Shale	White	Hard	4007	4110	
Devonian Shale	White	Hard	4110	4118	Hard, Tite, Trace of Sand
Devonian Shale	White	Hard	4118	4254	Limestone
Devonian Shale	Buff	Hard	4254	4309	Dolonite
TOTAL DEPTH				4309	

3533
2058
1475
Huron

2910
2058
852
up.Dev.
vndiv.

GR log - bedded
H 3102
J 3541
A 3668
Rk 3849

(Attach separate sheets to complete as necessary)

ANCHOR HOCKING CORPORATION
Well Operator

By Thomas P. Sanders 9-10-82
Its Manager, Gas/Oil Production

Carl E. Smith, Inc.
Well Operator

By Thomas P. Sanders
Its Manager - Exploration & Development

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 coal, encountered in the drilling of a well."