



New Location

Drill Deeper

Abandonment

Minimum Error of Closure 1 in 200

Source of Elevation 450845 BM-686 at NE. Corner of Bridge crossing Patterson Creek at Headsville.

"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." *Rexford K. Strander*

Company 90 Huntley & Huntley Upland Resources, Inc.

Address 221-4th Ave. Benedum-Trees Bldg. Pittsburgh, Pa. 15222

Farm Calvin E. & Viola E. Gillaspie

Tract      Acres 112 Lease No.     

Well (Farm) No. Gillaspie #1 Serial No.     

Elevation (Spirit Level) 917.6'

Quadrangle KEYSER 15' Headsville, W.Va. C

County Mineral District Cabin Run

Engineer Rexford K. Strander

Engineer's Registration No. LLS-555

File No. 0-205.01 Drawing No. 4A-9

Date 17 March Scale 1" = 1000'

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

WELL LOCATION MAP  
FILE NO. 47-057-0024-Prac.

+ 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.

*Deep Well* SEP 22 1981

OWwo 6-0. Headsville South (302):





STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

FEB 26 1980

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

WELL RECORD

Rotary \_\_\_\_\_ Oil \_\_\_\_\_  
Cable X Gas DRY HOLE  
Recycling \_\_\_\_\_ Comb \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Quadrangle Headsville

Permit No. 47-057-0024

Company <u>UPLAND RESOURCES, % Huntley &amp; Huntley, Inc.</u>	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>1700 Benedum-Trees Bldg., Pittsburgh, Pa. 15222</u>			
Farm <u>Calvin &amp; Viola Gillaspie Acres 112</u>			
Location (waters) <u>Patterson Creek</u>			
Well No. <u>1</u> Elev. <u>917.6</u>	Size <u>20-16</u>		
District <u>Cabin Run</u> County <u>Mineral</u>	Cond. <u>13-10"</u>		
The surface of tract is owned in fee by <u>Calvin &amp; Viola Gillaspie</u>	<u>9 5/8</u>		Cemented to Surface
Address <u>Rt. 1, Box 107, Burlington, W.Va. 26710</u>	<u>8 5/8</u>	<u>400'</u> <u>400'</u>	
Mineral rights are owned by <u>Same</u>	<u>7</u>		
Address _____	<u>5 1/2</u>		
Drilling Commenced <u>8/2/79</u>	<u>4 1/2</u>		
Drilling Completed <u>9/16/79</u>	<u>3</u>		
Initial open flow <u>0</u> cu. ft. <u>0</u> bbls.	<u>2</u>		
Final production <u>0</u> cu. ft. per day <u>0</u> bbls.	Liners Used _____		
Well open <u>0</u> hrs. before test <u>0</u> RP.			

Well treatment details:  
Not treated - Shut in.

Attach copy of cementing record.

Coal was encountered at No Coal Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water 165'; 463-71'; 855-60' Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand ORISKANY Depth 1942-2098'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
GAMMA RAY LOG:						
Brallier			0'	1005'		Water @ 165'
Harrell			1005'	1050'		Water @ 463'-471'
Mahantango			1050'	1590'		Water @ 855'-860'
Marcellus			1590'	1812'		
Tioga Metabentonite			1812'	1824'		
Onondaga Limestone			1824'	1832'		
Needmore Shale			1832'	1942'		
Oriskany Sand			1942'	2098'		Smell Gas @ 1994'
Helderberg Limestone			2098'			
Total Depth				2124'		

\* Indicates Electric Log tops in the remarks section.

(over)

MAR 10 1980



RECEIVED

APR 23 1979

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

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 April 18, 1979  
Company Upland Resources, Inc.  
c/o Huntley & Huntley, Inc.  
Address 1700 Benedum-Trees Bldg., Pgh., Pa. 15222  
Farm C. & V. Gillaspie Acres 112  
Location (waters) Patterson Creek  
Well No. -1- Elevation 917.6'  
District Cabin Run County Mineral  
Quadrangle Headsville

Surface Owner Calvin E. & Viola E. Gillaspie  
Address Rt. 1, Box 107, Burlington, W. Va. 26710  
Mineral Owner Same as above  
Address \_\_\_\_\_  
Coal Owner No Coal  
Address \_\_\_\_\_  
Coal Operator Not Applicable  
Address \_\_\_\_\_

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22,  
of the W. Va. Code, this location is hereby approved  
for drilling. This permit shall expire if  
operations have not commenced by 2-4-80.

INSPECTOR  
TO BE NOTIFIED Robert S. Stewart  
ADDRESS P. O. Box 345, Jane Lew, W. Va. 26378  
PHONE 884-7782

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 January 24, 1975 by Calvin E. Gillaspie, et ux made to Columbia Gas Trans. Corp. and recorded on the 20th day of February 1975, in Mineral County, Book 195 Page 699

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.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

Very truly yours,  
(Sign Name) Marcy Bartholomew  
Well Operator Vice President

W. VA. OIL & GAS CONSERVATION COMMISSION  
613 WASHINGTON STREET, EAST  
CHARLESTON, WEST VIRGINIA 25311

Address  
of  
Well Operator

1700 Benedum-Trees Bldg.  
Street  
Pittsburgh  
City or Town  
Pennsylvania 15222  
State

\*SECTION 3 . . . 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

47-057-0024 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by Marcy Bartholomew

**THIS IS AN ESTIMATE ONLY**  
**ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO  X  DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:  
 NAME  Talkington-Brady, Inc.  NAME  Troy A. Brady, Jr.   
 ADDRESS  P.O. Box 371, Buckhannon, W.Va. 26201  ADDRESS  P.O. Box 371, Buckhannon, W.Va. 26201   
 TELEPHONE  (304) 472-4677  TELEPHONE  (304) 472-4677   
 ESTIMATED DEPTH OF COMPLETED WELL:  2,900'  ROTARY \_\_\_\_\_ CABLE TOOLS  X   
 PROPOSED GEOLOGICAL FORMATION:  Oriskany   
 TYPE OF WELL: OIL \_\_\_\_\_ GAS  X  COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

**TENTATIVE CASING PROGRAM:**

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	350'	350'	Cement to Surface
7			
5 1/2			
4 1/2	2,500'	2,500'	Cement thru Onondaga
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS  100 & 300  FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS  None   
 IS COAL BEING MINED IN THE AREA?  No  BY WHOM? \_\_\_\_\_

**TO DRILL:**

SUBMIT 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 DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

**TO FRACTURE - STIMULATE:**

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES 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 twenty-four (24) hours in advance.

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

WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease 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

OIL AND GAS WELL PERMIT APPLICATION

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

DATE August 26, 1981

Surface Owner Calvin & Viola Gillaspie

Company Upland Resources, c/o Westvaco

Address Rt. 1, Box 107, Burlington, WV

Address 299 Park Ave., NY, NY 10017

Mineral Owner Same as above

Farm Gillaspie Acres 112

Address

Location (waters) Patterson Creek

Coal Owner N/A

Well No. 1 Elevation 918

Address

District Cabin Run County Mineral

Coal Operator N/A

Quadrangle Headsville

Address

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 fracturing. This permit shall expire if operations have not commenced by 5-10-82

INSPECTOR  
TO BE NOTIFIED Robert Stewart

ADDRESS P.O. Box 345, Jane Lew, WV

PHONE 884-7782

*J. J. Hargrett*  
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 On File 19     by      made to      and recorded on the      day of      19    , in      County, Book      Page     

     NEW WELL      DRILL DEEPER      REDRILL XXX 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.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

Very truly yours, *[Signature]*  
(Sign Name)      Well Operator

OFFICE OF OIL AND GAS  
1615 Washington Street, East  
Charleston, West Virginia  
Area Code 304 -348-3092 348-3096

Address of      Street  
Well Operator       
City or Town     

AUG 28 1981

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

\*SECTION 3 . . . . 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.

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."  
Signed by     

47-057-0024 - Frac PERMIT NUMBER

Blanket Bond Number on File

**THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO \_\_\_\_\_ DRILL \_\_\_\_\_ DEEPEN XXX FRACTURE-STIMULATE

DRILLING CONTRACTOR: (If Known)

RESPONSIBLE AGENT:

NAME \_\_\_\_\_

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

ADDRESS \_\_\_\_\_

TELEPHONE \_\_\_\_\_

TELEPHONE \_\_\_\_\_

ESTIMATED DEPTH OF COMPLETED WELL: \_\_\_\_\_

ROTARY \_\_\_\_\_ CABLE TOOLS \_\_\_\_\_

PROPOSED GEOLOGICAL FORMATION: \_\_\_\_\_

TYPE OF WELL: OIL \_\_\_\_\_ GAS XXX COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

**TENTATIVE CASING PROGRAM:**

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	400'	400'	Cement to Surface
7			
5 1/2			
4 1/2		2090'	209 SKS
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 165 FEET SALT WATER \_\_\_\_\_ FEET

APPROXIMATE COAL DEPTHS No Coal

IS COAL BEING MINED IN THE AREA? \_\_\_\_\_ BY WHOM? \_\_\_\_\_

**TO DRILL:**

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

**TO DRILL DEEPER OR REDRILL:**

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WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease 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





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

Bridge Plug at 1893'  
 Perforated at: 1384-1482, 20 shots; 1st stage  
 1593-1727, 20 shots; 2nd stage  
 1780-1880, 20 shots; 3rd stage  
 Fractured first stage with a 5% acid foam frac of 180 bbls. of top hole fluid and 300 sacks of 20/40 sand.  
 Fractured second stage with a 5% acid foam frac of 180 bbls. of top hole fluid and 300 sacks of 20/40 sand.  
 Fractured third stage with a 5% acid foam frac of 180 bbls. of top hole fluid and 300 sacks of 20/40 sand.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sandstone & Shale			0	1410	
Marcellus Shale			1410	1634	
Parcell Member of the Marcellus Shale			1634	1736	
Lower Marcellus Shale			1736	1804	
Tioga Bentonite			1804	1818	
Needmore Shale			1818	1942	
Oriskany Sandstone			1942	2098	
Shriver Chert			2098	2124	
T.D.			2124		

(Attach separate sheets as necessary)

Upland Resources  
 Well Operator  
 Agent Energy Omega, Inc.  
 BY: *Amy Walter*  
 Date: October 9, 1981

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."