

Latitude **39° 15'**



Longitude **78° 40'**

Clarence R. and  
Caroline Smith

Well 18

△ El. 1567.99

2640'  
2692.22'

found stone

554°-56'E  
219'

N37°-30'E  
480.5'

570°-30'E  
570°-30'-01"E

(DEED)  
(SURVEY)

1455.68' △

575°-20'-28"E

1244.78'

2359.5'

found stone

566°-21'-44"E

0.32 S  
1.35 W

A. M. Palmer

N36°-44'E

N33°-44'E

568°-15'E

1056'

N42°E

547°E

82.5'

284'

363'

N36°-15'E

371.25'

563°-30'E

found stone

△ 3

W. Va. Routes 12 & 4

Marvin R. Poland

167 Ac. ±

Clarence Cheshire

N33°-27'E

1270.5'

563°E

1141.8'

Wade S. Mathias

BM 1956.16  
LATITUDE: 39°-14'-10"  
LONGITUDE: 78°-44'-40"  
WARDENSVILLE  
QUADRANGLE

N59°-30'E

346.5'

759'

N23°-30'E

544.5'

568°E

174.5'

429'

571°-30'E

Homer B. Racey

75' loc

0.33539' 15'

1.32678° 40'

see elevations

- △ Revised Well location
- △ Revised elev. was 1587.93
- △ Revised road location

Relative Accuracy  
of work 1/2000

FRAC-8,11,75

New Location

Drill Deeper

Redrill

Abandonment

"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."

Company **HAMPSHIRE GAS COMPANY**

Address **1100 H ST., WASHINGTON, D.C.**

Farm **MARVIN R. POLAND**

Tract          Acres **167±** Lease No. **93**

Well (Farm) No. **18** Serial No.         

Elevation (Spirit Level) **1567.99** △ Rio 25' spot

Quadrangle **WARDENSVILLE** NW

County **HAMPSHIRE** District **SHERMAN**

Engineer *John J. Cleman*

Engineer's Registration No. **4231**

File No.          Drawing No. **68-70**

Date **July 16, 1968** Scale **1"=500'**

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL AND GAS DIVISION

CHARLESTON

REVISED

WELL LOCATION MAP

FILE NO. **HAMP-26-REV.-**

FRAC.

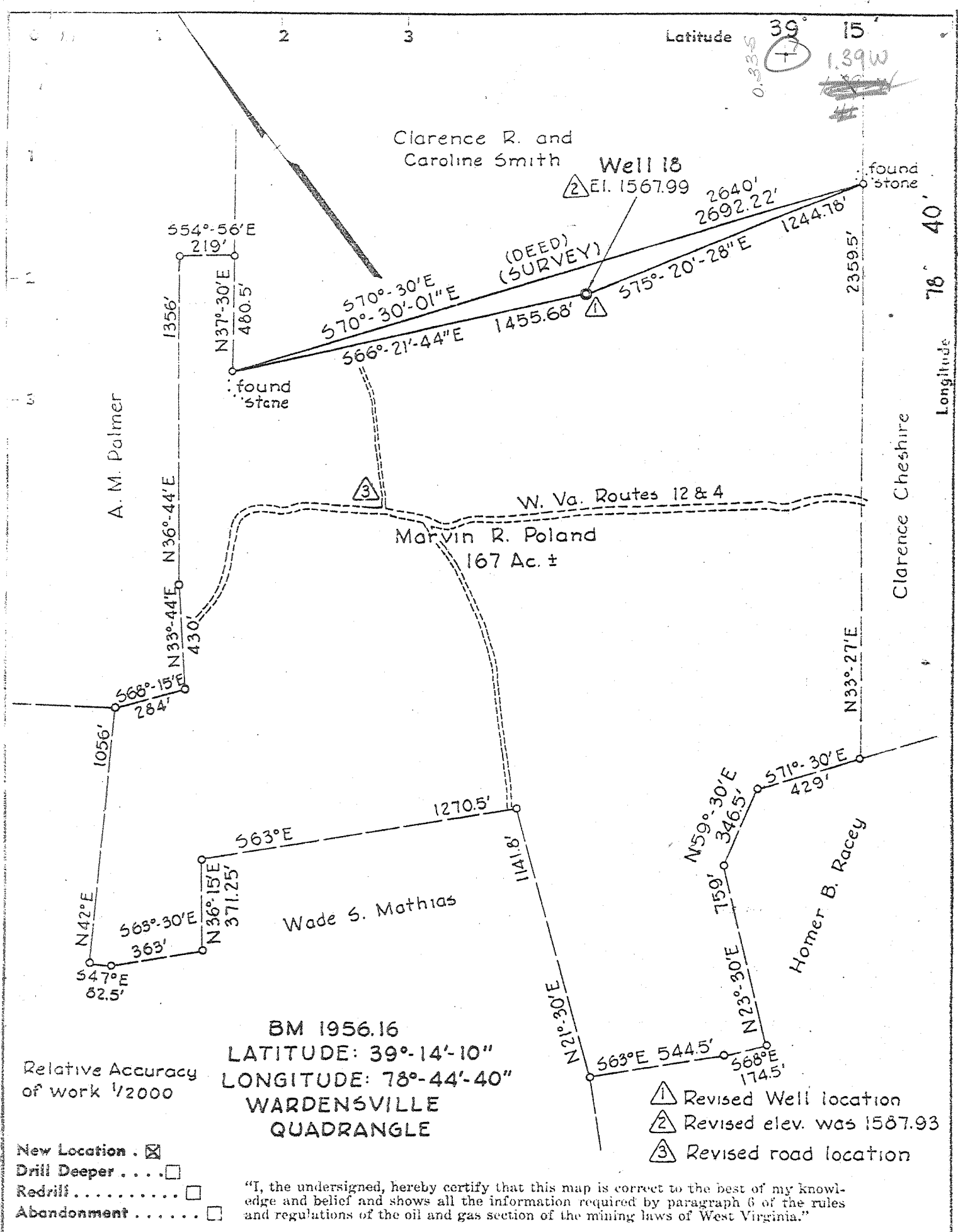
+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

**47-027**

owwo 60 Augusta (288)

Deep well

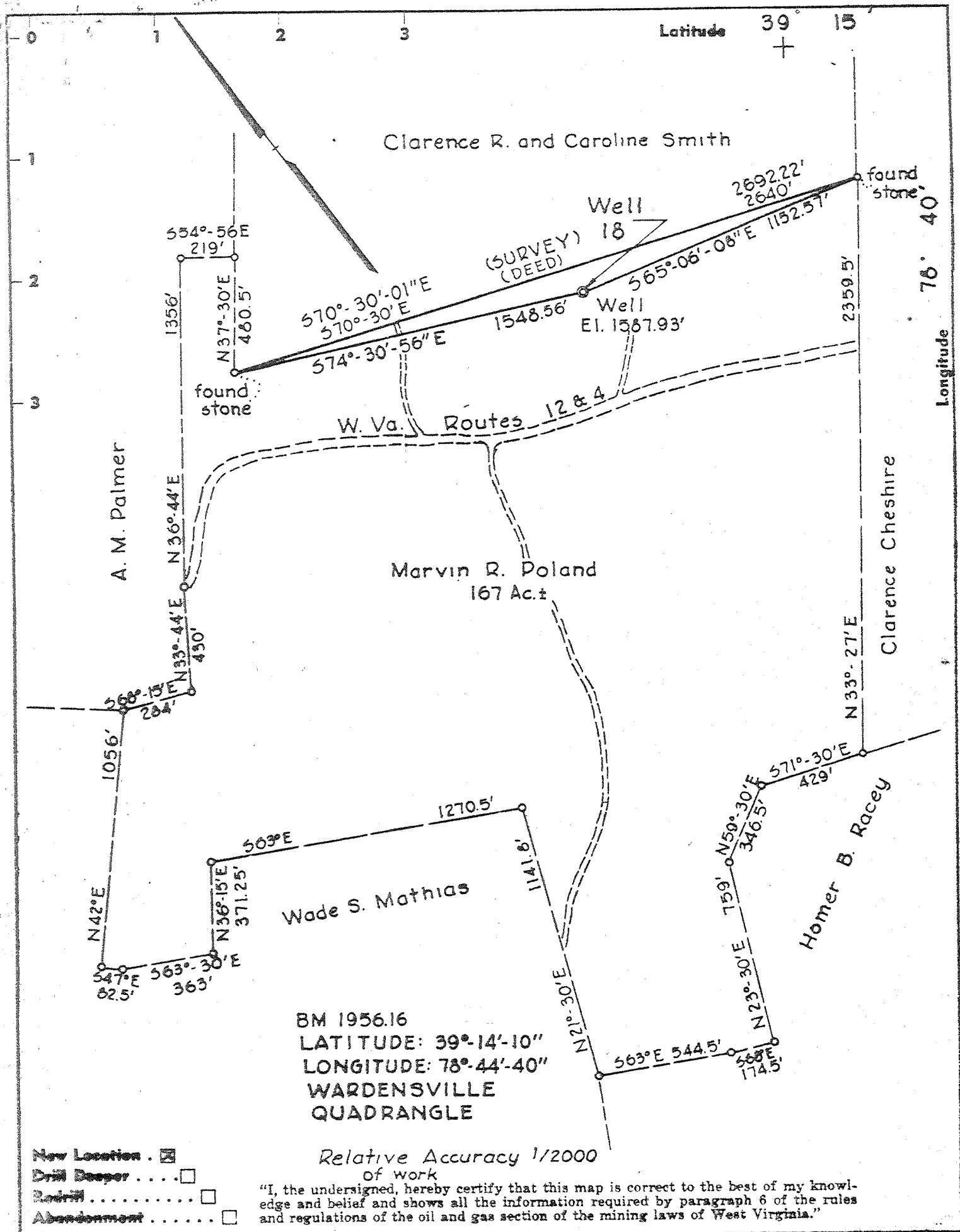


Company **HAMPSHIRE GAS COMPANY**  
 Address **1100 H ST., WASHINGTON, D.C.**  
 Farm **MARVIN R. POLAND**  
 Tract Acres **167±** Lease No. **93**  
 Well (Farm) No. **18.** Serial No.  
 Elevation (Spirit Level) **1567.99** 2  
 Quadrangle **WARDENSVILLE** NW  
 County **HAMPSHIRE** District **SHERMAN**  
 Engineer *John J. Coleman*  
 Engineer's Registration No. **4231**  
 File No. Drawing No. **68-70**  
 Date **July 16, 1968** Scale **1" = 500'**

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
**REVISED**  
**WELL LOCATION MAP**  
 FILE NO. **HAMP-24-REV.**

+ 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. **AUG 5 1968**



- New Location .
- Drill Deeper . . . . .
- Re-drill . . . . .
- Abandonment . . . . .

Relative Accuracy 1/2000  
of work

"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."

Company	HAMPSHIRE GAS COMPANY		
Address	1100 H ST., WASHINGTON, D.C.		
Farm	MARVIN R. POLAND		
Tract	Acres	Lease No.	
	167±	93	
Well (Farm) No.	18	Serial No.	
Elevation (Spirit Level)	1587.93		
Quadrangle	WARDENSVILLE		
County	HAMPSHIRE	District	SHERMAN
Engineer	John I. Coleman <i>John I. Coleman</i>		
Engineer's Registration No.	4231		
File No.	Drawing No. 68-70		
Date	June 28, 1968 Scale 1"=300'		

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

**WELL LOCATION MAP**

FILE NO. HAMP-26

+ 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.

50 Augusta 288 Deep Well (Uiskany)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Rotary   
Spudder   
Cable Tools   
Storage

*Dry w/  
Gas Show*  
(KIND)

Quadrangle Wardensville  
Permit No. Hamp - 29 26

**WELL RECORD**

Company Hampshire Gas Company  
Address 1100 H St., N.W. Wash. D.C. 20005  
Farm Marvin R. Poland Acres 167  
Location (waters) Bell Hollow  
Well No. 18 Elev. 1587.93  
District Sherman County Hampshire  
The surface of tract is owned in fee by Marvin R. Poland  
Address Marvin R. Poland  
Mineral rights are owned by Marvin R. Poland  
Address P.O. Shanks, W. Va.  
Drilling commenced 7/31/68  
Drilling completed 9/12/68  
Date Shot From To  
With  
Open Flow /10ths Water in Inch  
/10ths Merc. in Inch  
Volume Negligible Cu. Ft.  
Rock Pressure 1923 lbs. 117 day XX hrs.  
WELL ACIDIZED (DETAILS) (See other side)  
WELL FRACTURED (DETAILS)

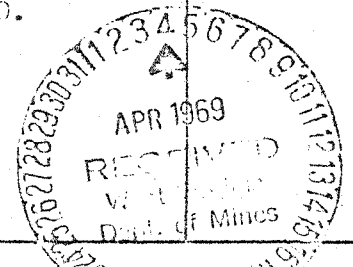
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 3/8		44	
10 9/16		1610	Size of
8 1/4			
6 3/8		5774	Depth set
5 3/16			
4 1/2			
3			Perf. top
2 3/8		5962	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.  
CASING CEMENTED SIZE No. Ft. Date  
Amount of cement used (bags) (See other side)  
Name of Service Co.  
COAL WAS ENCOUNTERED AT FEET INCHES  
FEET INCHES FEET INCHES  
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 5000 CFGPD EST. 5 Mcf (show)  
ROCK PRESSURE AFTER TREATMENT HOURS  
Fresh Water 54' 173' Feet Salt Water ? 3701' Feet  
Producing Sand Criskany Depth 5774 - 5989

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sample			0	76	water	54'	
shale	lt. gray		76	178	Water	173'	
shale and siltstone	red brown						
siltstone	lt. gray		178	850			
siltstone & shale	lt. gray		850	1140			
siltstone & shale	med. gray		1140	2360			
shale & siltstone	med. gray		2360	4140	water	3701	
shale	black		4140	4230			
siltstone	med. gray	Hard	4230	4470			
siltstone & thin limestone	med. gray		4470	4550			Fossiliferous
shale	med. gray		4550	5536			Silty
shale	dark gray to black		5536	5695			Calcareous
shale NAME?	lt. gray		5695	5771			Calcareous
sandstone	white to lt. gray	Hard	5771	5935			Calcareous & quartzitic
sandstone	med. to dark gray	Hard	5935	5984 T.D.			Very Calcareous & argillaceous

475



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
<u>SETTING CEMENTED</u>							
3/8"							40 sacks alpha with 2% CaCl <sub>2</sub>
5/8"							700 sacks regular cement (1st 200 had 1/4 lb. Cello flake/sack)
7"							2 stages (1) 275 sacks regular w/300 gal. latex (2) 76 sacks lite poz.; 20 sacks regular.
<u>TREATMENT</u>							
							1000 gallons 28% HCL; w/50 bbl. overflush
							4000 gallons 28% HCL; 2000 gallons 15% HCL; 1000 gallons 5% HCL; w/16 bbls overflush
							1000 gallons 28% HCL w/27 bbl. overflush.
							100 gallons 28% HCL w/52 bbl. overflush

Date March 28, 1969

APPROVED Hampshire Gas Company, Owner





STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

AUG 11 1975

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 July 31, 1975

Surface Owner Marvin R. Poland  
Address Shanks, West Virginia 26761  
Mineral Owner Marvin R. Poland  
Address Shanks, West Virginia 26761  
Coal Owner \_\_\_\_\_  
Address \_\_\_\_\_  
Coal Operator \_\_\_\_\_  
Address \_\_\_\_\_

Company Hampshire Gas Company  
Address 1100 H Street, N.W., Wash., D.C. 20003  
Farm Marvin R. Poland Acres 167  
Location (waters) Little Capon  
Well No. 18 Elevation 1367.99  
District Sherman County Hampshire  
Quadrangle Wardensville

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 12-11-75.

Robert L. Ford  
Deputy Director - Oil & Gas Division  
GENTLEMEN:

INSPECTOR TO BE NOTIFIED Paul Thomas  
PH: 472-6418 ADDRESS Buckhannon, W. Va 26001

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 13 1961 by Marvin R. Poland made to Joyce Pipeline Co. and recorded on the 21 day of June 1961, in Hampshire County, Book 150 Page 400

\_\_\_\_\_ NEW WELL \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL XX 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, Hampshire Gas Company

(Sign Name) Jerry J. Stetson  
Well Operator

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:  
West Virginia Geological and Economic Survey  
P. O. Box 879  
Morgantown, W. Va. 26505  
AC 304-296-4461

Address  
of  
Well Operator

1100 H Street, N.W.

Street

Washington

City or Town

District of Columbia 20003

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

Hamp-24-2100 PERMIT NUMBER  
47-027

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

PROPOSED WORK ORDER TO \_\_\_\_\_ DRILL \_\_\_\_\_ DEEPEN **XX** FRACTURE-STIMULATE  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME \_\_\_\_\_ NAME **Harry L. Ketcham, Jr.**  
 ADDRESS \_\_\_\_\_ ADDRESS **6801 Industrial Rd., Spgfd., Va. 22151**  
 TELEPHONE \_\_\_\_\_ TELEPHONE **(703) 750-4871**  
 ESTIMATED DEPTH OF COMPLETED WELL: \_\_\_\_\_ ROTARY **XX** CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: \_\_\_\_\_  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS **XX** 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			
7			
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS <sup>54</sup> **173** FEET SALT WATER **3701** FEET  
 APPROXIMATE COAL DEPTHS **NA**  
 IS COAL BEING MINED IN THE AREA? **NA** BY WHOM? **NA**

**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. **Blanket bond on file.**

**Original Permit Number for Drilling Well - Hampshire 26**

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