



NO.	COURSE & DISTANCE
1.	N 52°-57'-06" W 2829.51'
2.	N 39°-12'-54" E 718.67'
3.	S 44°-47'-06" E 561.00'
4.	N 40°-12'-54" E 1947.00'
5.	N 36°-17'-06" W 1461.84'
6.	N 37°-52'-01" E 891.94'
7.	N 36°-51'-37" E 2844.85'
8.	N 35°-11'-33" E 1231.63'
9.	S 83°-18'-27" E 798.29'
10.	N 47°-41'-33" E 793.94'

S = SURVEYED
 DOTTED LINES = DEED
 CP = CALCULATED POINT

TRUE NORTH DETERMINATION
 BY POLARIS OBSERVATION
 AT L.C. (10:02:40 P.M. D.S.T.)
 ON JUNE 10, 1971
 AT: LAT. 39°-22'-16" NORTH
 LONG. 78°-36'-06" WEST

DEEDBOOK REFERENCE
 FOR BEALER PROPERTY
 IS DB171 P.P. 345.

Minimum Error of Closure 1/2000'
 Source of Elevation (1970) BM. 29 RAP. + 753.613'

HANGING ROCK QUADRANGLE

Fracture 1,205
 New Location 3,740
 Drill Deeper 7516c
 Abandonment 1,205 39°25' 7025
 1,51 W 78°32'30" 3,83W

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.

Signed: W. Thomas Biggs
 Squares: N S E W

Company HAMPSHIRE GAS COMPANY
 Address 6801 INDUSTRIAL RD., SPRINGFIELD, VA.
 Farm HARTFORD E. BEALER, et al
 Tract Acres 416 ± Lease No. 486
 Well (Farm) No. 28 Serial No. _____
 Elevation (Spirit Level) 1225.36'
 Quadrangle HANGING ROCK EC levels 7516c
 County HAMPSHIRE District GORE
 Engineer W. Thomas Biggs
 Engineer's Registration No. W. VA. LICENSE NO. 51
 File No. _____ Drawing No. 73047
 Date MARCH 31, 1973 Scale 1" = 2000'

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

WELL LOCATION MAP

FILE NO. Hamp-32

+ 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.

ariskany (Deep Well) unnamed (Q)

APR 23 1973



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APR 5 1974

STATE OF WEST VIRGINIA OIL & GAS DIVISION
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

- Rotary
- Spuds
- Cable Tools
- Storage

Quadrangle Hanging Rock
Permit No. Hamp-32

WELL RECORD

Oil or Gas Well GAS
(KIND)

Company Hampshire Gas Company
Address 6801 Industrial Rd., Springfield, Va.
Farm Hartford E. Bealer Acres 416
Location (waters) Crooked Run
Well No. 25 Elev. 1225.37'
District Gore County Hampshire
The surface of tract is owned in fee by Hartford E. Bealer et Al
Address 1518 K St., N.W. Wash, D.C. 20005
Mineral rights are owned by Same
Address Same

Drilling commenced 8/30/73
Drilling completed 11/19/73
Date Shot - From - To -
With -

Open Flow None /10ths Water in - Inch
/10ths Merc. in - Inch
Volume - Cu. Ft.
Rock Pressure 2079 lbs. 34 DAYS hrs.

Oil - bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) --
WELL FRACTURED (DETAILS) -

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 13-3/8"	48'	48'	
10 9-5/8"	1510'	1510'	Size of
8 7/8" 7"23#	6135'	6135'	Depth set
5 3/16			
4 1/2			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record. SEE BACK OF PAGE
CASING CEMENTED - SIZE - No. Ft. - Date -
Amount of cement used (bags) SEE BACK OF PAGE
Name of Service Co. DOWELL
COAL WAS ENCOUNTERED AT - FEET - INCHES
- FEET - INCHES - FEET - INCHES
- FEET - INCHES - FEET - INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) -
ROCK PRESSURE AFTER TREATMENT - HOURS -
Fresh Water - Feet 130' Salt Water - Feet 1890'
Producing Sand Oriskany Depth 6134'

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
No Sample			0	40			
Siltstone & Shale	Red Brown & Gray		40	230			
Sandstone, Siltstone, & Shale	Light Gray		230	760			
Shale, Silty	Red Brown		760	905			
Siltstone, & Shale	Medium Gray		905	1260			
Siltstone & Shale	Medium Gray & Red Brown		1260	1530			
Siltstone, Some Shale	Medium Gray		1530	2940			
Shale, Some Siltstone	Medium Gray		2940	3830			
Siltstone & Shale	Light Gray		3830	4000			
Siltstone	Light to Dk Gray		4000	4870			Calcareous Stringers

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Siltstone & Shale	Gray		4870	5000		
Siltstone	Gray		5000	5250		
Shale	Dark Gray		5250	5475		
Shale with thin Limestone beds	Dark Gray		5475	5490		
Shale	Dark Gray		5490	5835		
Shale	Dark Gray to Black		5835	5895		Greasy
Metabentonite	Tioga Metabentonite		5895	5900		
Shale	Black		5900	6025		Calcareous
Shale	Light Gray		6025	6109		
Shale	Black		6109	6129		
Sandstone			6129	6270		Slightly Calcareous
Siltstone	Dark Gray		6270	6290		Oriskany
Limestone	Dark Gray		6290	6340		Argillaceous, Silty

CEMENTING DATA:

Conductor - 50 Sks Portland
 Surface - 450 Sks Regulated
 Fillup.
 Production - 1st Stage: 310 Ft³
 Portland, 70 Ft³
 Latex, 2nd Stage:
 700 Ft³ Portland,
 600 Ft³ Litepoz

Date 10/20/76 1976

APPROVED Hampshire Gas Company Owner

By [Signature]
 (Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
APR 10 1973
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 4-10-73

Surface Owner _____
Address _____
Mineral Owner Hartford E. Bealer, et al
Address _____
Coal Owner _____
Address _____
Coal Operator _____
Address _____

Zip - 20005
Company Hampshire Gas Company
Address 1100 H St., N. W., Washington, DC.
Farm Hartford E. Bealer, et al Acres 416
Location (waters) Crooked Run of Little Cacapon Riv.
Well No. 25 Elevation 1225.36
District Gore County Hampshire
Quadrangle Hanging Rock

INSPECTOR TO BE NOTIFIED

Mr. Paul Thomas
Box 12 PH: 472-6418
Buckhannon
W. Va. 26201

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 8/11/73.

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 2-19 1971 by Hartford E. Bealer, et al made to Hampshire Gas Company and recorded on the 9th day of March 1971, in Hampshire County, Book 190 Page 69

_____ 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, Original signed by:
Harry L. Ketcham, Jr. for
(Sign Name) Hampshire Gas Company
Well Operator

Address
of
Well Operator

1100 H. Street, N. W.
Street
Washington
City or Town
District of Columbia 20005
State

Hamp-32

*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.

