

NOTE: SURVEY BEARINGS SHOWN ARE BASED ON W.VA. (NORTH) GRID SYSTEM

No.	DEED BEARINGS	DEED DIST.	SURVEY BEARINGS	SURVEY DIST.	REMARKS
1	S 88° 45' W	37 POLES	S 84° 16' 30" W	610.50'	CALCULATED
2	N 59° 00' W	30 POLES	N 65° 22' 57" W	537.42'	CALCULATED (FENCE CORNER)
3	S 60° 30' W	46 POLES	S 57° 37' 08" W	913.35'	CALCULATED
4	N 8° 00' E	68 POLES	N 9° 45' 41" E	1218.39'	FIELD LOCATED
5	S 56° 30' E	1028.5 FT.	S 61° 55' 40" E	1011.07'	FIELD LOCATED
6	S 54° 00' W	270 FT.	S 41° 17' 12" W	253.52'	FIELD LOCATED
7	S 55° 00' E	480 FT.	S 61° 10' 38" E	519.81'	FIELD LOCATED
8	N 89° 30' E	492.5 FT.	N 85° 01' 31" E	482.27'	FIELD LOCATED

7.5' loc
 1.93 S 39° 15'
 1.47 W 78° 42' 30"
 calc 15' loc
 1.93 S
 3.70 W

Minimum Error of Closure $\frac{1}{2000}$
 Source of Elevation B.M. U.S.G.S - 1920 EL. = 1956.16
 LONGITUDE 78° 44' 40" LATITUDE 39° 14' 10"

Fracture
 New Location
 Drill Deeper
 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.
 Signed: John J. Gleason
 Squares: N S E W
 Map No. _____

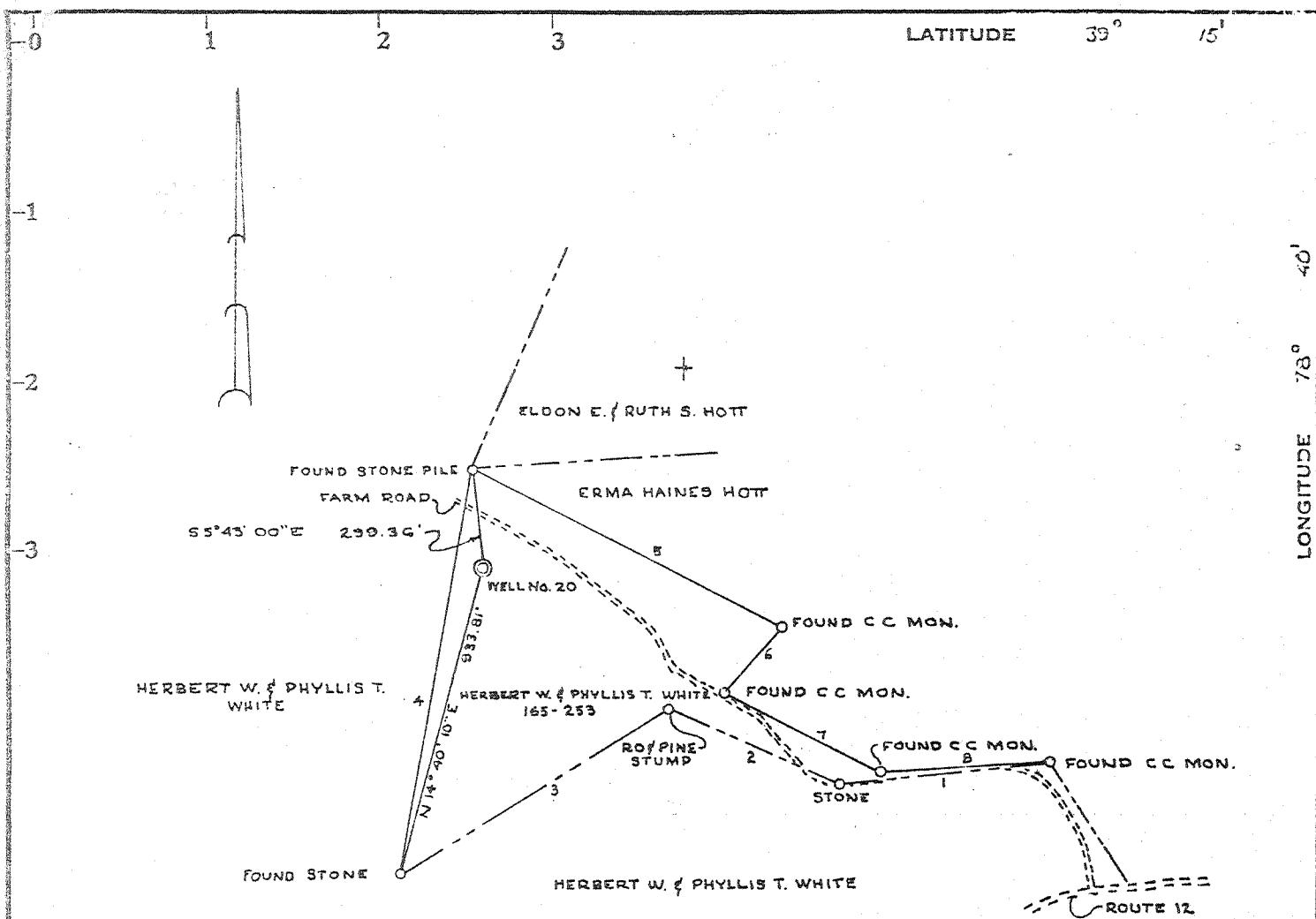
Company HAMPSHIRE GAS COMPANY
 Address 1100 H. ST. WASHINGTON D.C.
 Farm HERBERT W. & PHYLLIS T. WHITE
 Tract Acres 15.12± Lease No. 122
 Well (Farm) No. 20 Serial No. _____
 Elevation (Spirit Level) 1987.5±
 Quadrangle WARDENSVILLE NW
 County HAMPSHIRE District SHERMAN
 Engineer John J. Gleason
 Engineer's Registration No. 4231
 File No. _____ Drawing No. 70-17-1
 Date 4/20/70 Scale 1" = 500'

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

WELL LOCATION MAP

FILE NO. Hamp-27
plugged 07/07/1970

+ 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 (H. Denber)



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Source of Elevation B.M. USGS-1920 EL. = 1956.16

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Fracture
 New Location
 Drill Deeper
 Abandonment - Issued 7-8-70

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: *John D. Cole*
 Squares: N S E W

Company HAMPSHIRE GAS COMPANY
 Address 1100 H. ST. WASHINGTON D.C.
 Farm HERBERT W. & PHYLLIS T. WHITE
 Tract _____ Acres 15.12± Lease No. 122
 Well (Farm) No. 20 Serial No. _____
 Elevation (Spirit Level) 1987.54
 Quadrangle WARDENSVILLE NW
 County HAMPSHIRE District SHERMAN
 Engineer John D. Cole
 Engineer's Registration No. 4231
 File No. _____ Drawing No. 70-17-1
 Date 4/20/70 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. Hamp-27-P

+ 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.

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RECEIVED

JUL 8 1970

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

Rotary
 Spudder
 Cable Tools
 Storage

Quadrangle Wardensville
 Permit No. HAMP-27

WELL RECORD

Oil or Gas Well Dry
(KIND)

Company	Hampshire Gas Company	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address	1100 H Street, N.W. - Washington, D.C.	Size			Kind of Packer
Farm	Herbert W. & Phyllis T. White Acres. 15.12				Size of
Location (waters)	One mile north of Grassy Lick Creek	13-3/8"	36'	36'	Depth set
Well No.	20 Elev. 1987.54'	9-5/8"	1496'	1496'	Perf. top
District	Sherman County Hampshire	8 1/4			Perf. bottom
The surface of tract is owned in fee by Herbert W. & Phyllis T. White Address Kirby, West Va.		6%			Perf. top
Mineral rights are owned by Same Address		5 3/16			Perf. bottom
Drilling commenced	May 14, 1970	4 1/2			
Drilling completed	July 6, 1970	3			
Date Shot	From To	2			
With		Liners Used			

Attach copy of cementing record.

CASING CEMENTED	SIZE	No. Ft.	Date
Amount of cement used (bags) See Reverse Side			
Name of Service Co. Dowell			
COAL WAS ENCOUNTERED AT			
FEET	INCHES	FEET	INCHES
FEET	INCHES	FEET	INCHES

WELL ACIDIZED (DETAILS)

WELL FRACTURED (DETAILS)

RESULT AFTER TREATMENT (Initial open Flow or bbls.)

ROCK PRESSURE AFTER TREATMENT

Fresh Water	Feet	313	Salt Water	Feet	
Producing Sand			Depth		

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Shale	Lt. Gray	<i>Chemung</i>	35'	220'	Water	313'	Silty
Shale	Lt. Gray & Red Brown		220'	400'			Interbedded
Siltstone & Shale	Lt. Gray & Red Brown		400'	520'			
Siltstone & Shale	Lt. Gray		520'	1210'			
Siltstone & Shale	Lt.M. Gray & Red Brown		1210'	1495'			
Siltstone & Shale	Lt. Gray		1495'	2390'			Calcareous
Siltstone & Shale	Lt. Gray		2390'	3215'			Non-Calcareous
Siltstone & Shale	Lt. Gray		3215'	3810'			Calcareous
Shale	Dk. Gray		3810'	3975'			
Siltstone & Shale	Lt. Gray		3975'	4090'			
Shale	Black & Lt. Gray		4090'	4250'			Silty
Shale	Black		4250'	4280'			
Shale	Med. Gray		4280'	6170'			Calcareous
Shale	Black		6170'	6725'			
Shale	Lt. Gray w/ Dk. Streaks		6725'	6805'			
Shale	Dk. Gray to Black		6805'	7300'	Marcellus		
Metabentonite			7300'	7310'	Metabentonite		

(over)

JUL 19 1970

Formation	Color	Hard or Soft	Top /	Bottom	Oil, Gas or Water	Depth Found	Remarks
Shale	Black		7310'	7340'			Needmore
Shale	Med. Gray		7340'	7805'			Calcareous w Bentonite & Pyri
Shale	Black		7805'	7855'			Calcareous
Shale	Black		7855'	7870'			Calcareous a Gray Limestone
Shale	Dk. Gray		7870'	7895'			W/Bentonite
Shale	Dk. Gray		7895'	7975'			Calcareous
Shale	Lt. Gray		7975'	7980'			W/Bentonite
Shale	Lt. Gray		7980'	8030'			Calcareous
Shale	Dk. Gray		8030'	8085'			Calcareous
Sandstone	White		8085'	8305'			Oriskany
Limestone	Lt.M.Gray		8305'	8499'			Helderberg
Sandy interbedded with sandstone, gray, calcareous; and shale, Med. & Dk. Gray							

485

CEMENTING RECORD

Cemented 36' of 13-3/8" Casing to the surface with Class A cement - 2% Calcium Chloride, using 40 sacks of cement, on May 14, 1970.

Cemented 1496' of 9-5/8" Casing to the surface using 600 sacks of Class A cement - 2% Calcium Chloride, on June 15, 1970.

Date July 6, 1970

APPROVED HAMPSHIRE GAS COMPANY

By *[Signature]*
Superintendent - Natural Gas
Production & Storage