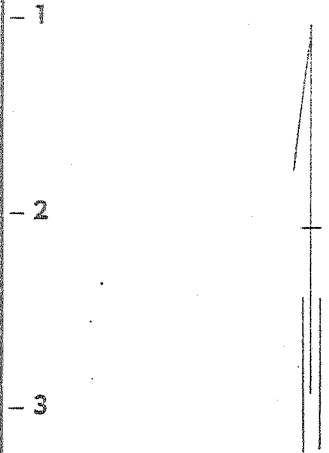
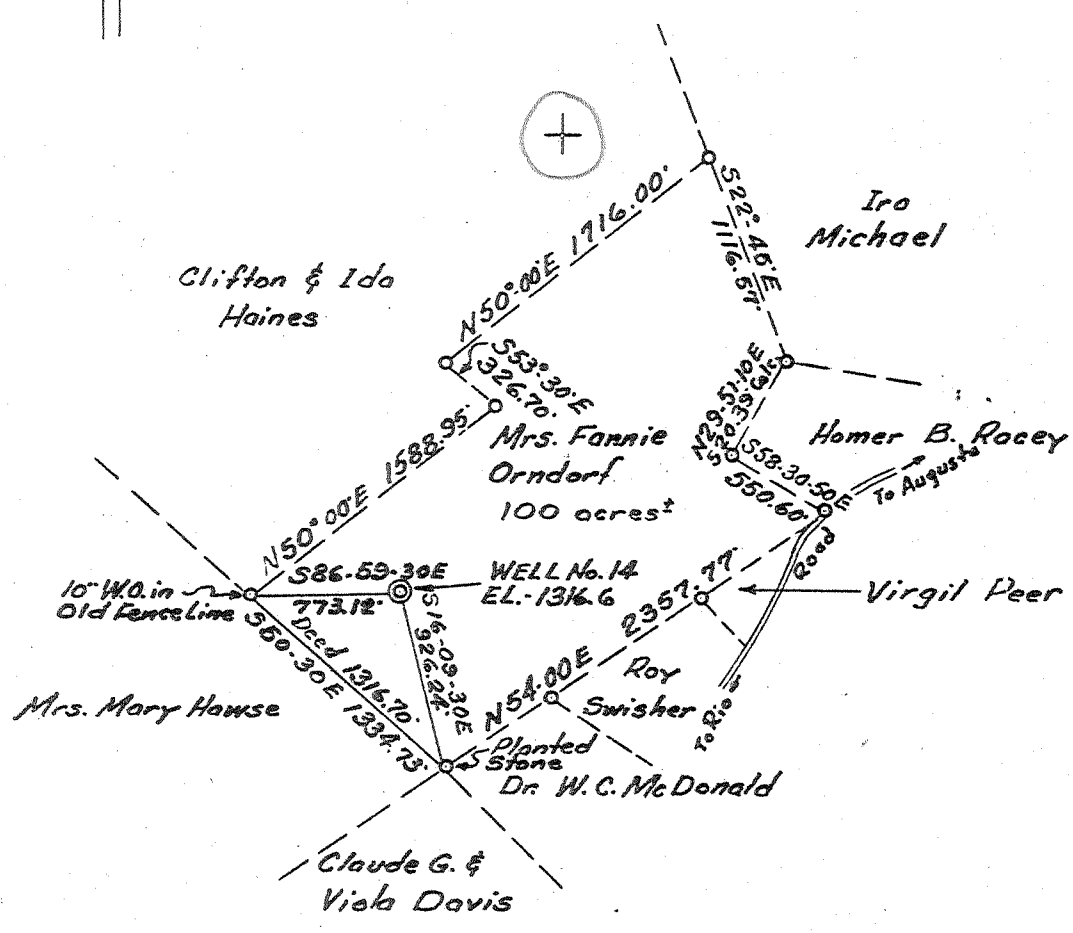


Latitude 39 20
39 17 30

Longitude 78 35
78 37 30



1.05S
1.44W



2.5' loc
1.62S 39° 17' 30"
1.44W 78° 37' 30"
3.93 S.
3.68 W.

BM-USGS H-23 (1921)
Latitude: 39° 17' 30"
Longitude: 78° 38' 00"
Hanging Rock Quadrangle

- New Location .
- Drill Deeper
- Redrill
- Abandonment

8 SW (F-17)
"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 CO.
 Address 1100 H ST., WASHINGTON, D.C.
 Farm MRS. FANNIE ORNDORF
 Tract _____ Acres 100[±] Lease No. 257
 Well (Farm) No. 14 Serial No. 14
 Elevation (Spirit Level) 1316.6
 Quadrangle HANGING ROCK - 5C
 County HAMPSHIRE District SHERMAN
 Engineer _____
 Engineer's Registration No. 4231
 File No. _____ Drawing No. 65-16
 Date 5-24-65 Scale 1" = 1000'

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

WELL LOCATION MAP

FILE NO. HAMP-18

(Converted to storage well)

+ 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.

Examples 0-6587' 8-A 6-6 288 Deep Well



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle Hanging Rock

Permit No. HAMP-18

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company <u>Hampshire Gas Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>1100 H Street, N. W. Washington, D. C.</u>				
Farm <u>Fannie E. Orndorff</u> Acres <u>100[±]</u>				
Location (waters) <u>3.65 mi. W 78°35', 3.88 mi S 39°20'</u> Size				
Well No. <u>Hampshire Gas Co. No. 14</u> Elev. <u>1316.6</u>	<u>16</u>			Kind of Packer
District <u>Sherman</u> County <u>Hampshire</u>	13 <u>13-3/8</u>		<u>@ 40'</u>	Size of
The surface of tract is owned in fee by <u>Mrs. Fannie E. Orndorff</u>	<u>10</u> <u>9-5/8</u>		<u>@ 1310'</u>	Depth set
Address <u>Augusta, W. Virginia</u>	<u>8 1/4</u>			
Mineral rights are owned by <u>Mrs. Fannie E. Orndorff</u>	<u>6 3/8</u> <u>7</u>		<u>@ 6529'</u>	
Address <u>Augusta, W. Virginia</u>	<u>5 3/16</u>			
Drilling commenced <u>28 Jun 65</u>	<u>3</u>			Perf. top
Drilling completed <u>19 Aug 65</u>	<u>2</u>			Perf. bottom
Date Shot _____ From _____ To _____	Liners Used			Perf. top
With _____				Perf. bottom
Open Flow <u>10</u> /10ths Water in <u>2.0</u> Inch				
<u>Unknown quantity of water in hole</u> Inch				
<u>10ths Merc. in</u> Inch				
Volume <u>150,000 cu. ft./day</u> Cu. Ft.				
Rock Pressure _____ lbs. _____ hrs.				
Oil _____ bbls., 1st 24 hrs.				
WELL ACIDIZED <u>No</u>				
WELL FRACTURED <u>No</u>				

CASING CEMENTED Yes SIZE 7" No. Ft. 6529 Date Cemented to Surface - 8/13/65

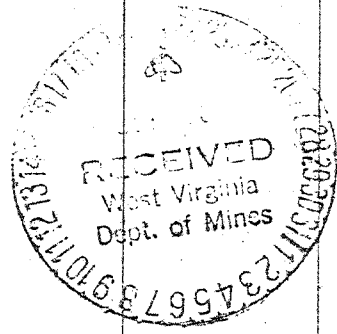
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

RESULT AFTER TREATMENT

ROCK PRESSURE AFTER TREATMENT

Fresh Water _____ Feet 50, 135, 800, 1475 Salt Water _____ Feet 6585.5

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay, sandstone, and siltstone	Yellow-gray	Soft	0	40			
Sandstone & shale	Red-gray	Hard	40	120	Fresh Water	50'	
Sandstone	Gray	Hard	120	160	Fresh Water	135'	
Sandstone & shale - silty	Medium dark gray	Hard	160	350			
Siltstone & Shale	Medium dark gray	Soft	350	420			
Siltstone	Darkgray	Hard	420	445			
Sandstone & Shale - silty and slightly dolitic	Medium gray	Hard	445	585			
Siltstone & Shale - Sandy	Brown Gray	Hard	585	705			
Sandstone	Dark gray	Hard	705	750			
Shale - Silty	Dark gray	Soft	750	790			



Formation	Color	Hard or Soft	Top 7	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sandstone Silty	Brown Gray	Hard	790	825	Fresh Water	800'	350 Bbls/hr. Est.
Shale - Silty	Dark gray	Soft	825	955			
Sandstone & Siltstone - Shaly	Medium Gray	Hard	955	1275			
Shale - Silty	Medium dark green gray	Soft	1275	1390			
Sandstone & Shale Silty	Brown gray to Black	Hard	1390	2025	Fresh Water	1475'	
Shale Silty	Dark gray to Black	Soft	2025	2670			
Siltstone & Sandstone	Dark gray	Hard	2670	3335			
Siltstone - Shaly Lime-Stone	Dark gray to Black	Hard	3335	3665			
	Dark gray	Hard	3665	3675			
Siltstone Shaly	Dark gray to Black	Hard	3675	4080			
Limestone	Dark brown to dark gray	Hard	4080	4120			
Siltstone Shaly	Dark gray to Black	Hard	4120	4430			
Siltstone Sandy	Black	Hard	4430	4535			
Shale with Siltstone Streaks	Gray black to Black	Soft	4535	4818			
Limestone	Dark gray	Hard	4818	4835			
Shale with Siltstone Streaks	Gray Black to Black	Soft	4835	6030			
Shale Silty becoming calcareous	Black	Soft	6030	6402			Marcellus Shale
Metabentonite	Dusty Brown	Soft	6402	6402			
Shale and Limestone	Medium to Dark gray	Soft	6402	6530			Onondaga-Needmore
Sandstone	Medium to Dark gray	Hard	6530	6587*	Gas Salt Water	6585.5'	Oriskany

475

*Correct T.D. of Well to 6582.5 Drill Pipe Measurement

Date September 20, 1965

APPROVED HAMPSHIRE GAS COMPANY, Owner

By D. H. [Signature] - Sup. - Natural Gas Production
(Title) & Storage