

TABLE OF COURSES & DISTANCES

① S 10° E 3201.00'	⑬ N 74° 30' W 1089.00'
② S 30° W 825.00'	⑭ N 14° 15' E 981.75'
③ S 55° E 874.50'	⑮ N 77° 30' W 577.50'
④ S 52° E 3531.00'	⑯ N 48° W 891.00'
⑤ S 90° E 412.50'	⑰ N 77° 30' W 780.45'
⑥ S 52° E 412.50'	⑱ S 83° W 495.00'
⑦ S 74° E 379.50'	⑲ N 75° 30' W 387.75'
⑧ S 11° 45' W 2227.50'	⑳ N 59° W 651.75'
⑨ N 86° 30' E 363.00'	㉑ N 56° 30' W 181.50'
⑩ N 27° E 585.75'	㉒ N 08° E 899.25'
⑪ N 26° E 1031.25'	㉓ N 90° W 2887.50 (Daed)
⑫ N 29° 30' E 4504.50'	N 86° 40' 50" W · 3347.86' (Calculated)

2.45 S.
~~0.64 W~~
~~0.69 W~~
 5 EC (F-17)
 B.M.: USGS 815
 LATITUDE: 39° 23' 30"
 LONGITUDE: 78° 36' 00"
 HANGING ROCK QUADRANGLE
 7.5' loc
 2,335 39' 25"
 0.75 W 78° 35"
 11/6-2/18/2010

- New Location .
- Drill Deeper
- Redrill
- Abandonment

Revised

"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 W ST., WASHINGTON, D.C.
 Farm JULIAN B. LEWIS
 Tract Acres 827 ± Lease No. 154 & 319
 Well (Farm) No. 9 Serial No. _____
 Elevation (Spirit Level) 983.30 *Levels 7.5' quad*
 Quadrangle HANGING ROCK - C
 County HAMPSHIRE District GOBE
 Engineer John J. Coleman
 Engineer's Registration No. 4231
 File No. _____ Drawing No. 64-31-9A
 Date SEPTEMBER 4, 1904 Scale 1" = 2000'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
REVISED
WELL LOCATION MAP
 PERMIT NO. HAMP - 15
 FILE NO. _____

+ 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.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 6

Rotary
Spudder
Cable Tools
Storage

1-6-66
459

Quadrangle Hanging Rock

Permit No. HAMP-15

WELL RECORD

Oil or Gas Well Gas

Company Hampshire Gas Company
Address 1100 H St., N.W., Washington, D. C.
Farm Julian B. Lewis Acres 827
Location (waters) Near Little Cacapon River
Well No. 9 Elev. 983
District Gore County Hampshire
The surface of tract is owned in fee by Julian B. Lewis
Address Three Churches
Mineral rights are owned by J. B. Lewis - 1/2,
R. L. Gray - 1/2 Address _____
Drilling commenced September 23, 1964
Drilling completed February 10, 1965
Date Shot _____ From _____ To _____
With _____
Open Flow 38.5 /10ths Water in 1.939 Inch
_____ /10ths Merc. in _____ Inch
Volume 278,000 Cu. Ft.
Rock Pressure 1997.0 lbs. 50 days
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED Primary - 30,000 Gallons 10%
Overflush - 2,000 Gallons 3%
WELL FRACTURED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 13-3/8" - 48#, H-40		47.49	
9 9-5/8" - 32.3#, H-40		1304.16	Size of
8 1/4			
7 7" - 23#, J-55		5352.76	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

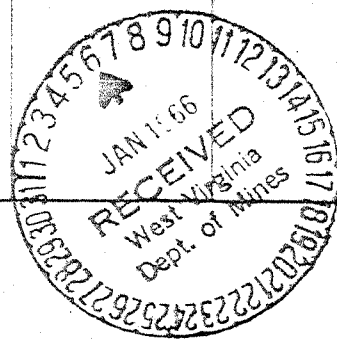
CASING CEMENTED 7" SIZE 5353 No. Ft. 1/23/65 Date
All casing cemented to surface

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

RESULT AFTER TREATMENT 2,155 MCF/Day (9 Hours 20 Minutes) *Ordinary*
ROCK PRESSURE AFTER TREATMENT 1994.2 (15 Hours), 2007.4 (18 Days)
Fresh Water 3 Zones Feet 85, 190, 2123 Salt Water None Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Shale Silty	Gry-Red	Hard	0	360	Fresh Water	85 & 190	Catskill
Sandstone - Shaly, Silty	M-Gry	Hard	360	1478			
Shale Silty	Gry-Red	Hard	1478	1540			2nd Catskill
Sandstone, Siltstone & Shale	M-Gry, Brn-Gry	Hard	1540	2990	Fresh Water	2123	
Siltstone - Shaly	M to Dk-Gry	Hard	2990	3205			
Limestone	Dk-Gry	Hard	3205	3215			
Shale and Siltstone	Dk-Gry	Hard	3215	3340			
Limestone	Blk	Hard	3340	3345			
Shale Silty	Gry-Blk	Hard	3345	3405			
Limestone	Gry-Blk	Hard	3405	3415			
Shale and Siltstone	Dk-Gry	Hard	3415	4515			
Shale Silty	Dk-Gry	Soft	4515	4552			

(over)



Formation	Color	Hard or Soft	Top 6	Bottom	Oil, Gas or Water	Depth Found	Remarks
Shale Silty, Calc	Dk-Gry/Blk	Soft	4552	5205			Marcellus
Limestone	Gry-Blk	Hard	5205	5225			Onondaga
Shale Silty, Calc	Dk-Gry/Gry	Soft	5225	5349			Needmore
Sandstone	Dk-Gry	Hard	5349	5506	Gas - 5402 Gas - 5423		Oriskany
(475)							
Hole plugged back to 5430.5' with stone and capped with 5' Cal Seal Plug							

Date December 3, 1965

APPROVED Hampshire Gas Company, Owner

By *Danny J. Fitchman, Jr.*
(Title)

Superintendent, Natural Gas Production & Storage