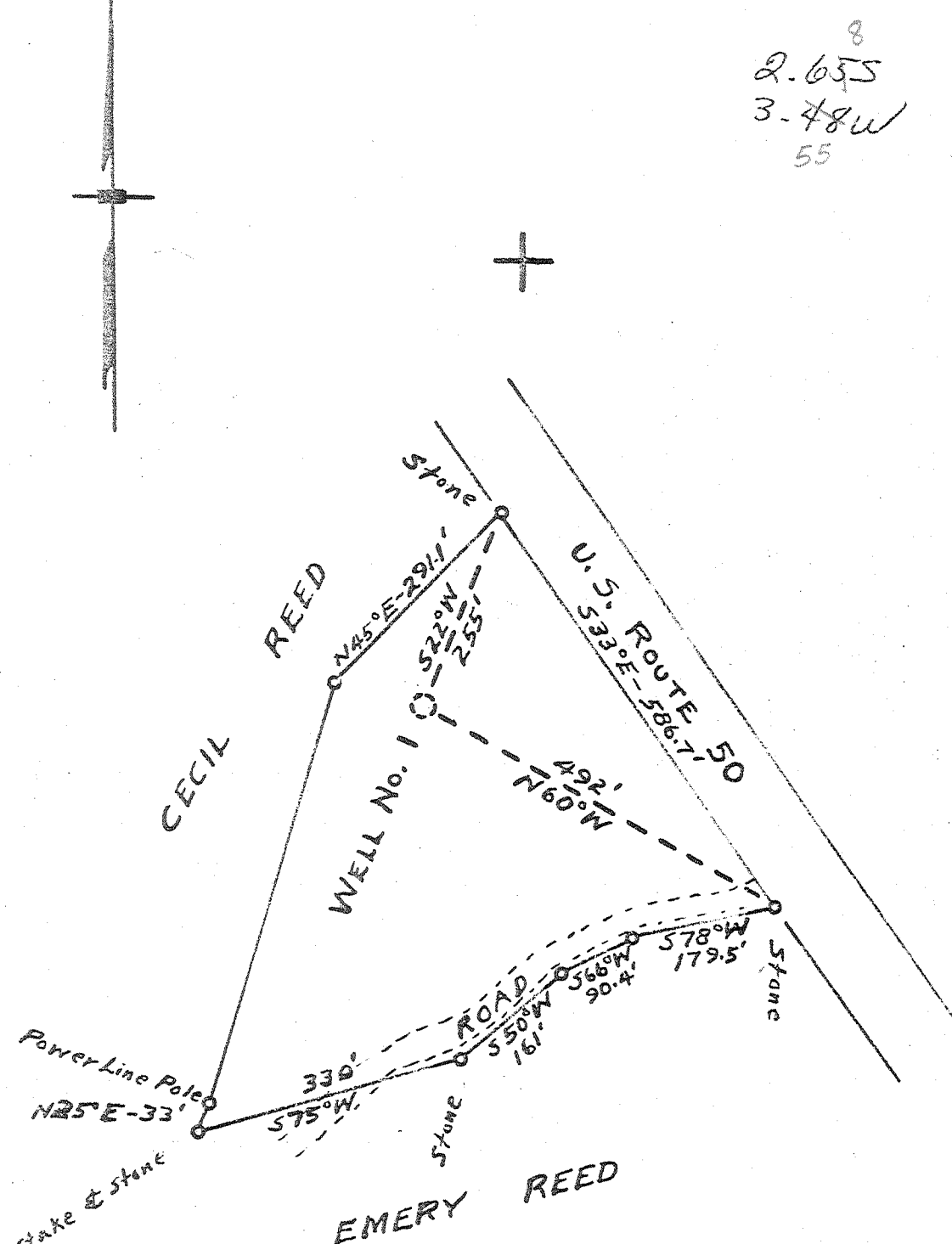


Latitude 39° 20'

Longitude 78° 35'



8
2.655
3.48W
55

7510c
2565 39° 20'
128W 78° 37' 30"
Calc 1510c
2565
3.51W
21510c

- New Location.
- Drill Deeper.
- Redrill.
- Abandonment.

Company Hampshire Gas - JOYCE PIPE LINE COMPANY
 Address % MR. A. B. CUMMINGS SHANKS, W. VA.
 Farm LEE SHANHOLTZ
 Tract _____ Acres 5.6 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1190' *August 75' 10"*
 Quadrangle HANGING ROCK - 5 C
 County HAMPSHIRE District SHERMAN
 Engineer W. J. Holloway
 Engineer's Registration No. 3148
 File No. 90 Drawing No. _____
 Date 2-23-62 Scale 1" = 200

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

WELL LOCATION MAP
 FILE NO. HAM-10-Drill Deef
(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.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle Hanging Rock
Permit No. HAMP-10-DD

WELL RECORD

Oil or Gas Well Gas
(KIND)

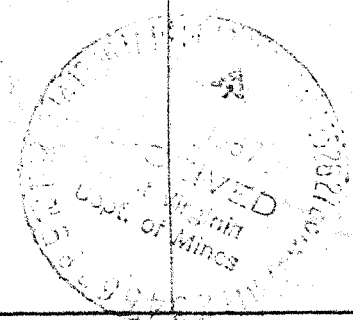
Company Hampshire Gas Company
Address 1100 H Street, N.W. - Washington, D. C.
Farm Lee H. Shanholtz Acres 5.6
Location (waters) Rock
Well No. Hampshire Gas Company #6 Elev. 1190
District Sherman County Hampshire
The surface of tract is owned in fee by Lee H. Shanholtz
Address Augusta, W. Va.
Mineral rights are owned by Lee H. Shanholtz
Address Augusta, W. Va.
Drilling commenced November 25, 1966
Drilling completed January 16, 1967
Date Shot From To
With
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume 12,230 Mcf after deepening ~~CXPK~~
Rock Pressure 1280 lbs. 7 hrs.
Oil bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) See Reverse Side
WELL FRACTURED (DETAILS)

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
XX 13-3/8		57	
XX 9-5/8		1097	Size of
8 1/4			
6 3/4 7"		5561	Depth set
5 3/16			
4 1/2 11.6 lbs/ft. N-80 2377)			
3 13.5 lbs/ft. N-80 5556)			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED 7" & 4 1/2" 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 FEET INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 20,700 Mcf/Day
ROCK PRESSURE AFTER TREATMENT 1850 PSIG HOURS 12-1/2
Fresh Water Feet Salt Water Feet
Producing Sand Oriskany Sandstone Depth 5558-5636 T.D.

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sandstone <u>ORSK</u>	White	Hard	5582	5636 <u>475</u>	Gas	5584-89 5591 5595 5601	



Formation	Color	Hard or Soft	Top $\frac{8}{}$	Bottom	Oil, Gas or Water	Depth Found	Remarks
<u>ACIDIZING RECORD</u>							
No. 1 - 1000 gallons 28% inhibited HCl as cleanout.							
No. 2 - 14000 gallons 28% inhibited HCl and 3600 gallons 2% inhibited HCl as overflush.							
<u>CEMENTING RECORD</u>							
7" Casing - Jet perforated four holes at 5060'. Cemented to surface thru perforations with: 1. 650 FT ³ Dowell Litepoz II (1:1) 2. 600 SKS Class "A" - on bottom NOTE: Cement top from original construction work at 5090'.							
4½" Casing - Cemented to surface in two stages: First Stage - 95 SKS Dowell expanding cement with 125 gals. latex on bottom. Second Stage - 460 SKS Class "A" Cement with 15 SKS Dowell expanding cement on bottom.							

Date April 17, 1967

APPROVED _____ HAMPSHIRE GAS COMPANY, Owner

By Harry J. Holman
Superintendent
Natural Gas Production & Storage



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 7

Quadrangle WHIP COVE

Permit No. HAM-10

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company JOYCE PIPE LINE
Address ANDOVER, NEW YORK
Farm Lee Shanholtz Acres 5.6
Location (waters) Rock
Well No. 1 Elev. 1190'
District Sherman County Hampshire
The surface of tract is owned in fee by Shanholtz
Augusta Address West Virginia
Mineral rights are owned by Lee Shanholtz
Augusta Address West Virginia
Drilling commenced March 1, 1962
Drilling completed Nov. 23, 1962
Date Shot -0- From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
6" /10ths Merc. in _____ Inch
Volume 6,000,000 Cu. Ft.
Rock Pressure 1990' lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED No
WELL FRACTURED No

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer _____
16			
13	57'		
10			Size of _____
8 9-5/8	1097		
6 7"		5555	Depth set _____
5 3/16			
3			Perf. top <u>-0-</u>
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED 55 SIZE 9-5/8 No. Ft. 1097 Date May 29, 1962

COAL WAS ENCOUNTERED AT -0- FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

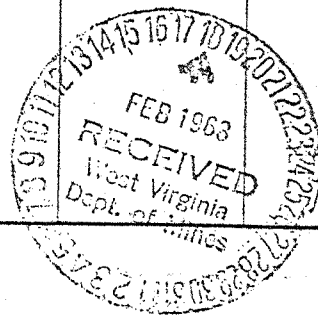
RESULT AFTER TREATMENT

ROCK PRESSURE AFTER TREATMENT

Fresh Water 80', 175', & 215 Feet Salt Water -0- 2740 Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay	L. Brown	Soft	0	57			
Shale & Shells	Grey	Med.	57	195			
Shale	Red	Med.	195	220			
Shale & Shells	Grey	Hard	220	437			
Lime	L. Grey	Hard	437	672			
Lime & Shells	Grey	Hard	672	1045			
Lime & Sand	Grey	Hard	1045	1052			
Lime Shells	Grey	Hard	1052	1097			Cemented 55 sack
Lime & Shale	L. Grey	Hard	1097	1158			Top of cement in pipe 1072
Lime & Sand	L. Grey	Hard	1158	1178			
Pink Rock	Pink	Hard	1178	1194			
Lime & Shells	L. Grey	Med.	1194	1243			
Lime & Shale	Green	Med.	1243	1290			
Lime	Grey	Hard	1290	1330			
Lime & Shells	Grey	Med.	1330	1380			
Sandy Lime	Grey	Hard	1380	1425			
Lime & Shale	Grey	Med.	1425	1465			

(over)



DEEP WELL

Formation	Color	Hard or Soft	Top 7	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime & Shells	Grey	Hard.	1465	1530			
Lime & Shale	Grey	Med.	1530	1587			
Shale	Grey	Med.	1587	1610			
Shale & Shells	Grey	Med.	1610	1780			
Lime Shells	Grey	Hard	1780	1887			
Sandy Lime	D.Grey	Hard	1887	1954			
Shale & Shells	L.Grey	Med.	1954	2015			
Lime	Lt.Grey	Hard	2015	2085			
Shale	Dk.Grey	Med.	2085	2128			
Shale & Lime	Lt.Grey	Med.	2128	2190			
Shale	Grey	Med.	2190	2240			
Shelly Shale	Grey	Med.	2240	2397			
Lime	Grey	Hard	2397	2480			
Shale & Shells	Dk.Grey	Hard	2480	2546			
White Lime	Lt.Grey	Hard	2546	2594			
Lime	Grey	V.Hard	2594	2635			
Sand	Grey	Hard	2635	2640			
Lime	Grey	Hard	2640	2737			
Sand	L.Brown	Hard	2737	2742			
Lime	Grey	Hard	2742	2945			
Shale Shells	Grey	Hard	2945	3050			
Shale	L.Brown	Med.	3050	3439			
Lime & Sand	L.Brown	V.Hard	3439	3502			
Lime	Grey	Hard	3502	3627			
Slate & Shells	Grey	Med.	3627	3976			
Shale	Grey	Soft	3976	4022			
Shale & Shells	Grey	Hard	4022	4317			
Shale	D.Grey	Med.	4317	4640			
Shale	LBrown	Med.	4640	4751			
Lime	L.Brown	Hard	4751	4833			
Shale	Brown	Med.	4833	5100			
Shale	D.Brown	Soft	5100	5163			
Shale	L.Brown	Med.	5163	5425			
Lime	Brown	Hard	5425				
Sand - ORSK	White	Hard	5560	Top			
Gas at 5560	5,000,000	Oriskany					
Gas at 5581	6,000,000 +						
Bottom hole	5582						

Salt water at 2740
Filled up 1600 ft.
little gas

Cave at 5100
Used 22 bags cement

Red Break 5425

LOT 1
5425
5100
4751

5425
5100
4751

Top of ... - 4750

Date February 15, 1963

APPROVED Industrial Co. Owner
By W. J. ... - Consultant
... (Title)