

Minimum Error of Closure 1' in 200'
 Source of Elevation Well # 4, Wm Kaufman El. 1080.00' floor.

- 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: A.C. Wilbert
 Map No. 52 Squares: N 47 E W 37

Company Wolf's Head Oil Refining Co. Inc.
 Address P.O. Box 1588, Parkersburg, W. Va.
 Farm Wm Kaufman
 Tract _____ Acres 800 Lease No. 81219
 Well (Farm) No. W-7 Serial No. _____
 Elevation (Spirit Level) 1003.40' ground
 Quadrangle Spencer - SE
 County Roane District Smithfield
 Engineer A.C. Wilbert
 Engineer's Registration No. 2534
 File No. 1357 Drawing No. _____
 Date Sept. 25, 1963 Scale 1" = 800'

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

WELL LOCATION MAP

FILE NO. ROA-985

+ 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.

6-6-1967



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 31

Quadrangle SPENCER
Permit No. ROA-985

WELL RECORD

P
Oil or Gas Well Oil & Gas
(KIND)

Company WOLF'S HEAD OIL REFINING COMPANY, INC.
Address P. O. Box 1588, Parkersburg, W. Va.
Farm Wm. Kaufman Acres 800
Location (waters) Slab Camp Run
Well No. W-7 Elev. 1003.40
District Smithfield County Roane
The surface of tract is owned in fee by Harold Rhodes
Otto Route Address Spencer, W. Va.
Mineral rights are owned by Alfred M. Oppenheimer II,
et al.
300 South Lang Avenue Address Pittsburgh 8, Pa.
Drilling commenced November 20, 1963
Drilling completed November 27, 1963
Date Shot - From To
With
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume Show Oil & Gas (Drilled w/Rotary) Cu. Ft.
Rock Pressure lbs. hrs.
Oil bbls., 1st 24 hrs.
WELL ACIDIZED

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			Steel Shoe
13			Float Collar
10			Guide Shoe
8 5/8"	174' 2"	174' 2"	Size 3 7/8" OD
6 3/8"			4 1/2" OD
5 1/2" OD	2230' 7"	2230' 7"	Depth, set
3			2188
2 3/8" Tbg.	2230'	2230'	2219
Liners Used			Perf. top
			Perf. bottom
			Perf. top
			Perf. bottom

CASING CEMENTED 8 5/8" SIZE 172 No. Ft. 11/21/63 Date
4 1/2" 2219 11/29/63

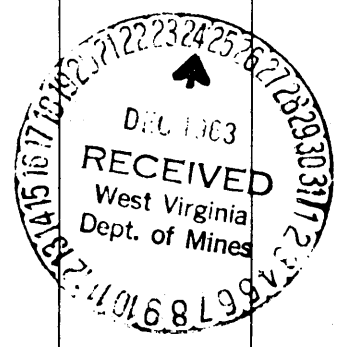
COAL WAS ENCOUNTERED AT - FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

WELL FRACTURED December 12, 1963

RESULT AFTER TREATMENT Gas - 42,000 Cu. Ft.
Oil - 33 Bbls.
ROCK PRESSURE AFTER TREATMENT 508 Lbs.

Fresh Water - Feet Salt Water - Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay			0	10			
Sand			10	70			
Red Rock			70	110			
Shale			110	130			
Sand			130	172			
Shale			172	200			
Sand			200	240			
Red Rock			240	295			
Sand			295	375			
Sandy Shale			375	575			
Shale			575	600			
Red Rock			600	610			
Shale			610	630			
Sand			630	635			
Shale			635	670			
Sand			670	705			
Sand & Shale			705	935			
Sand			935	1020			
Shale			1020	1040			
Sand			1040	1150			
Shale			1150	1300			
Sand			1300	1350			
Sand & Shale			1350	1435			
Sand			1435	1500			
Shale			1500	1530			
Sandy Shale			1530	1600			
Sand			1600	1665			
Lime			1665	1770			
Sand			1770	1925			
Shale			1925	1955			



Formation	Color	Hard or Soft	Top 31	Bottom	Oil, Gas or Water	Depth Found	Remarks
Little Lime			1955	1970			
Sandy Shale			1970	1975			
Big Lime			1975	2130			
Keener Sand			2130	2141			
Big Injun			2141	2170			
Shale			2170	2219	Oil & Gas	2141-2170	Show
4 1/2" Casing				2219			
TOTAL DEPTH				2219			

Date December 23, 1963

APPROVED WOLF'S HEAD OIL REFINING COMPANY, INC. Owner

By George W. Wilsman
George W. Wilsman, (Title) Agent