

~~4.725~~ A.69-S
~~2.55W~~
 2.58-W

Harry L. Bogard
 78.4 a.
 Surf: Frank & Geo Fluharty,
 Smithfield, W.Va.
 Coal: % Benjamin Reeder, Trustee,
 P.O. Box 842, Morgantown, W.Va.

Justus D. Brewer
 46 3/4 a.

Minimum Error of Closure 1' in 200'
 Source of Elevation B.W. Peterson Well #28, El. 1088.96'

- 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. Hillert

Map No. N59 Squares: N 5 S E 45 W

Company Wolfs Head Oil Refining Co Inc.
 Address P.O. Box 1588, Parkersburg, W.Va.
 Farm B.W. Peterson
 Tract _____ Acres 4248.1 Lease No. 10052
16125 R.B.
 Well (Farm) No. W-1 Serial No. 97
 Elevation (Spirit Level) 1078.8 Ground
 Quadrangle Littleton - SF
 County Wetzel District Grant
 Engineer A.C. Hillert
 Engineer's Registration No. 2534
 File No. 577 Drawing No. _____
 Date Oct. 1, 1963 Scale 1" = 800'

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

WELL LOCATION MAP
 FILE NO. WET-559

+ 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

Quadrangle LITTLETON

Permit No. WET-559

WELL RECORD

Oil or Gas Well Dry
(K/M/D)

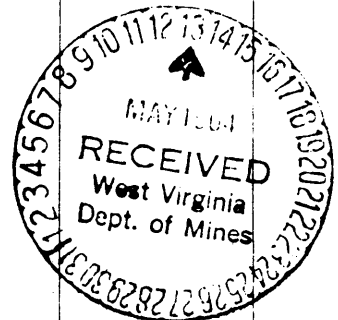
Company WOLF'S HEAD OIL REFINING COMPANY, INC.
 Address P. O. Box 1588, Parkersburg, West Virginia
 Farm B. W. Peterson Acres 4,248.1
 Location (waters) Bear Run
 Well No. W-1 Elev. 1079'
 District Grant County Wetzel
 The surface of tract is owned in fee by Frank & Geo. Fluharty
 Address Smithfield, W. Va.
 Mineral rights are owned by c/o Benjamin Reeder, Trustee
P. O. Box 842 Address Morgantown, W. Va.
 Drilling commenced November 28, 1963
 Drilling completed February 18, 1964
 Date Shot _____ From _____ To _____
 With _____
 Open Flow /10ths Water in _____ Inch
 _____/10ths Merc. in _____ Inch
 Volume Insufficient to test, See Electric Log Ft.
 Rock Pressure Not Taken lbs. _____ hrs.
 Oil 1 Gal. _____, 1st 24 hrs.
 WELL ACIDIZED _____
 WELL FRACTURED SEE BACK SIDE OF SHEET FOR FRACTURE DATA

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Steel Shoe
2 1/8" 18"	7'	7'	Steel Shoe
13 3/8"	348'	348'	Kind of Packer
10 3/4"	1456'	1456'	Steel Shoe
8 5/8"	2149'	86'	Float Collar
6 1/2"			Guide Shoe
5 1/2"	2353'	2353'	Size of 1 3/8" OD
			10-3/4" OD
			8-3/8" OD
			5 1/2" OD
			Depth set 348'
			1728'
			2353'
			Perf. top
			Perf. bottom
			Perf. top
			Perf. bottom

CASING CEMENTED 10 3/4" SIZE 1456 No. Ft. 1/8/64 Date
5 1/2" 2353 2/20/64
 COAL WAS ENCOUNTERED AT 340' FEET 48" INCHES
850' FEET 96" INCHES FEET _____ INCHES
 FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT _____
 ROCK PRESSURE AFTER TREATMENT _____
 Fresh Water _____ Feet _____ Salt Water _____ Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand Rock			0	40			
Conductor				7			
Red Rock			40	50			
Sand			50	95			
Red Rock			95	104			
Gray Shale			104	115			
Shale & Red Rock			115	145			
Sand			145	160			
Shale & Shells			160	200			
Sand			200	250			
Shale, Gray			250	265			
Red Rock			265	275			
Shale & Shells			275	290			
Gray Shale			290	295			
Shale			295	340			
Coal			340	344			
Red Rock			344	350			
Sand & Shale			350	360			
Sand			360	380			
Shale & Shells			380	430			
Sand			430	520			
Shale			520	530			
Red Rock			530	545			
Slate & Shells			545	620			
Lime			620	735			
Shale & Shells			735	765			
Slate			765	785			
Limestone			785	845			
Slate & Red Rock			845	850			
Coal			850	858			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Shale & Shells			858	890			
Lime			890	910			
Shale & Shells			910	925			
Red Rock			925	945			
Lime			945	1005			
Red Rock			1005	1035			
Sand			1035	1070			
Red Rock			1070	1100			
Shale			1100	1125			
Red Rock			1125	1190			
Sand			1190	1230			
Red Rock			1230	1250			
✓ Sand - L. Dunkard			1250	1300			
Shale & Shells			1300	1358			
✓ Big Dunkard			1358	1378			
Slate & Shells			1378	1435			
Sand			1435	1450			
Slate			1450	1465			
Sand			1465	1570			
Slate & Shells			1570	1635			
Sand			1635	1685			
Slate & Shells			1685	1700			
Sand			1700	1710			
Slate & Shells			1710	1780			
✓ Salt Sand			1780	1825			
					Water, Fresh	1800	Show Only
Slate & Shells			1825	1935			
Red Rock			1935	2020			
Slate & Shells			2020	2050			
✓ Little Lime			2050	2072			
✓ Pencil Cave			2072	2088			
✓ Big Lime			2088	2150			
✓ Big Injun			2150	2323			
					Oil	2210-2218	Show Only
					Gas	2218-2234	Insuf. to Test
Slate			2323	2353			
5 1/2" Casing				2353			
				2353			
TOTAL DEPTH							
1ST FRAC.							
Well Fractured: 3/19/64 - Used: 900 Bbls Water, 34,000# Sand, 400 Gal. J-84, 200 Gal. J-84,							
Well Acidized: 4/19/64 500 Gal. M.C.A., 35 Bags Detergent and 40 Gal. Preflo							
Result After Treatment: Oil = NONE Rock Pressure After Treatment: none							
2ND FRAC.							
Well Acidized: 4/4/64							
Well Fractured: 4/4/64 - Used: 950 Bbl a2o, 60,000# 20-40 Sand, 40 Gal. Preflo, 30 Gal.							
Detergent, 450# J-84, 225# J-98 and 500 Gal. Mud Acid							
Result After Treatment: Oil = 2 Bbl. Rock Pressure After Treatment: none							
3RD FRAC.							
Well Acidized: 4/14/64							
Well Fractured: 4/14/64 - Used: 419 Bbls. Water, 20,000# Sand 20-40, 500 Gal. Mud Acid, 40 Gal.							
Preflo, 30 Gal. Detergent, 225 - J-98 and 450 - J-84							
Result After Treatment: Oil = NONE Rock Pressure After Treatment: none							

Date May 12, 1964

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

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