

ACCURACY: 1p / 200p

Source of Elevation MT. UNION CHURCH (1142')

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.

Chet Waterman

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill

Company WOLF RUN OIL & GAS COMPANY
 Address HUNTINGTON, W. VA.
 Farm W. C. CZIGGANS
 Tract Acres 109 1/2 Lease No. _____
 Well (Farm) No. 3 Serial No. _____
 Elevation (Spirit Level) 1288.6'
 Quadrangle HOLBROOK
 County DODDRIDGE District SOUTHWEST
 Engineer CHET WATERMAN
 Engineer's Registration No. 3788
 File No. 68003-14 Drawing No. _____
 Date 2/6/68 Scale 1" = 30p

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

WELL LOCATION MAP

FILE NO. DOD - 1510

+ 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 2

Quadrangle Holbrook

Permit No. Dodd 1510

WELL RECORD

Oil or Gas Well Oil & Gas
(KIND)

Company Wolf Run Oil and Gas Co.
Address Box 5-Huntington, W.Va.
Farm W.C. Czigans Acres 109 1/2
Location (waters) Straight Fork
Well No. -3- Elev. 1288'
District Southwest County Doddridge
The surface of tract is owned in fee by Alta Spurgeon and J.H. Spurgeon
Address Oxford, W.Va.
Mineral rights are owned by Alta Spurgeon
Address Oxford, W.Va.

Drilling commenced 6-10-68
Drilling completed 7-16-68
Date Shot _____ From _____ To _____
With _____
Open Flow _____ /10ths Water in Shaw Inch
_____ /10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____

WELL FRACTURED Treated @ 2707-13 and 2715-19 with 610 Bbls. water, 28000 lbs. sand, 250 gals. acid. Treated @ 2300' to 2322' with 625 bbls. water, 28000 lbs. sand and 750 gals. acid.
RESULT AFTER TREATMENT 1,000,000 Cu. Ft. with 25 bbls. per day. 1000 McF + 25 Bbl
ROCK PRESSURE AFTER TREATMENT 640# after 24hrs. with full column of oil. Wiper & Gordon
Fresh Water _____ Feet _____ Salt Water _____ Feet _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 5/8"	9'	9'	
10 3/4"	20 3/8'	-0-	Size of
8 5/8"	1172'	-0-	
6 3/8"			Depth set
5 3/16"			
3"			Perf. top
2"			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 4 1/2" SIZE 2825 No. Ft. 7-18-68 Date
140 Bags Cement-Lawson Oil and Gas Well Cem. Co.
COAL WAS ENCOUNTERED AT None FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Top Soil			-0-	4			
Sand			4	35			
Slate-Black			35	40			
Red Rock			40	65			
Sand			65	75			
Red Rock			75	85			
Slate			85	125			
Lime-Gritty			125	150			
Sand			150	175			
Red Rock			175	200			
Slate			200	205			
Red Rock			205	263			
Lime-Gritty			263	270			
Sand			270	290			
Red Rock Shells			290	340			
Slate			340	345			
XXXXX Lime			345	360			
Slate			360	366			
Lime-Gritty			366	370			
Sand-Hard and Sharp			370	385			
Red Rock			385	485			
Lime			485	490			
Red Rock			490	500			
Slate Shells-Gritty			500	510			
Sand			510	545			
Red Rock and Lime			545	595			
Slate Shells-Gritty			595	625			
Red Rock			625	635			
Lime Hard			635	655			
Red Rock			655	660			



(over)

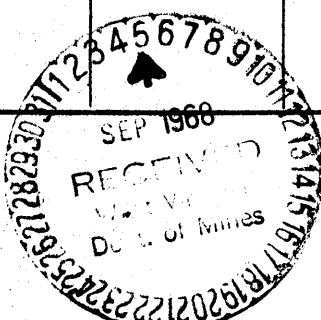
SEP 16 1968

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate Shells			660	712			
Lime			712	720			
Sand			720	740			
Slate Shells			740	750			
Red Rock			750	765			
Sand Hard			765	775			
Slate			775	785			
Red Rock			785	865			
Sand			865	897			
Slate			897	902			
Lime			902	940			
Slate Shells			940	975			
Red Rock			975	985			
Slated Shells			985	1006			
Red Rock			1006	1025			
Slate Shells			1025	1030			
Sand			1030	1055			
Slate & Shell White			1055	1080			
Black Slate & Shells			1080	1105			
Slate Lime Shells			1105	1135			
Black Slate			1135	1146			
Gritty Lime Hard			1146	1150			
Slate & Shell Black			1150	1170			
Lime			1170	1175			
Sand			1175	1200			
Gritty Lime			1200	1230			
Slate			1230	1240			
Lime			1240	1275			
Sand			1275	1320			
Lime			1320	1340			
Sand			1340	1355			
Slate & Shells Lime			1355	1380			
Sand - Broken			1380	1395			
Lime - Gritty			1395	1425			
Sand			1425	1475			
Slate & Shells			1475	1490			
Lime			1490	1500			
Black Slate & Shells			1500	1515			
Sand			1515	1540			
Sand Broken Dark			1540	1625			
Sand			1625	1654			
Broken Sand			1654	1695			
Black Slate			1695	1765			
Lime - Gritty			1765	1790			
Slate & Shell Black			1790	1824			
Sand Hard			1824	1860	Show Gas 1850		
Sand Broken			1860	1865			
Slate & Lime Shells			1865	1895			
Gritty Lime			1895	1910			
Slate - Soft			1910	1945			
Lime Dark - Hard			1945	1955			
Red Lime			1955	1958			
Lime Gritty			1958	1975			
Slate			1975	1977			
Lime - Hard			1977	2005			
Slate			2005	2015			
Lime			2015	2024			
Lime Gritty			2024	2031			
Lime			2031	2077			
Sand-Hard			2077	2088			
Sand			2088	2101	Show Gas 2095		
Break			2101	2104	Show Oil 2145		
Sand			2104	2160			
Lime - Break			2160	2170			
Slate & Shells			2170	2215			
Gritty Lime			2215	2285	Show Oil 2265		
Mier Sand			2285	2340	Show Oil & Gas 2300		

Date 9-4, 196r
 APPROVED _____, Owner
 By Robert D. [Signature] (Title) Agent

Formation	Color	Hard or Soft	Top 2A	Bottom	Oil, Gas or Water	Depth Found	Remarks
and Broken			2340	2350			
and			2350	2405			
late			2405	2475			
lime Gritty			2475	2500			
late & Shells			2500	2524			
lime - Gritty			2524	2550			
lime - Hard			2550	2575	Bubble Gas	2565	
lime Broken			2575	2630	Bubble Gas	2591	
chale			2630	2676			
lime Gritty & Hard			2676	2690	Bubble Gas	2680	
late & Shells			2690	2735	Show Oil	2705	
ed Lime			2735	2740			
late			2740	2770			
lime Hard			2770	2780			
late			2780	2821			
				T.D.			

Gordon



Date 9-4, 1968
 APPROVED W. H. Kennerly & Son, Inc. Owner
 By Robert O. Kennerly (Title) Agent