

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

KANAWHA RIVER
 2,245
 4,47 W
 2
 1 WC (J-4)

Company SPARTAN GAS COMPANY
 Address KANAWHA VALLEY BLDG. CHAS.
 Farm REMBRANDT MORGAN
 Tract _____ Acres 95.94 Lease No. _____
 Well (Farm) No. ONE Serial No. S-100
 Elevation (Spirit Level) 681.09
 Quadrangle SAINT ALBANS-NE
 County PUTNAM District SCOTT
 Engineer William T. Ziebold
 Engineer's Registration No. 2471
 File No. _____ Drawing No. _____
 Date 10-7-55 Scale 1" = 660'

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

WELL LOCATION MAP
 FILE NO. Put-589

+ 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.

6-0 = 212

Deep Well



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 10

Quadrangle St. Albans

WELL RECORD

Permit No. Put-589

Oil or Gas Well Gas

(KIND)

Company Spartan Gas Company
Address Box 766 - Charleston, W. Va.
Farm Rembrandt Morgan Acres 95.94
Location (waters) Kanawha River
Well No. 1 S-100 Elev. 681
District Scott County Putnam
The surface of tract is owned in fee by Rembrandt Morgan
Address Winfield, W. Va.
Mineral rights are owned by Same
Address _____

Drilling commenced November 5, 1955
Drilling completed December 5, 1955
Date Shot _____ From _____ To _____
With _____

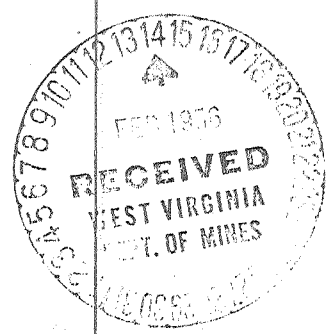
Open Flow: /10ths Water in _____ Inch
6 /10ths Merc. in 2 Inch
Volume 381 M Cu. Ft.
Rock Pressure 430 lbs. 24 hrs.
Oil None bbls., 1st 24 hrs.
Fresh water See Below feet feet
Salt water See Below feet feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer <u>Larkin</u>
13	<u>31'</u>	<u>31'</u>	<u>Upside Down</u>
10	<u>600' 7"</u>	<u>535'</u>	Size of _____
8 1/4	<u>1526'</u>	<u>1526'</u>	<u>2 x 8 5/8"</u>
6 5/8			Depth set <u>1557</u>
5 3/16			
3			Perf. top _____
2	<u>1614'</u>	<u>1614'</u>	Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

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

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand & Gravel			0	5			
Red Rock			5	10			
Sand			10	15			
Red Rock			15	45			
Slate			45	55			
Red Rock			55	65			
Slate & Red Rock			65	92	Water	74-78 3 Blr. Per Hour	
Slate			92	115			
Red Rock			115	148			
Sand			148	168			
Red Rock			168	175			
Slate			175	225			
Red Rock			225	250			
Slate			250	310			
Sand			310	330			
Slate			330	358			
Red Rock			358	365			
Slate			365	380			
Sand			380	400			
Slate			400	500			
Sand			500	590	Water	568-578	Hole Full
Slate			590	595			
Sand			595	678			
Slate			678	683			
Sand			683	765			
Slate			765	775			
Sand			775	800			
Broken Sand			800	840			
Slate			840	880			
Sand			880	950			
Slate			950	1025			
Sand			1025	1196	Water	1137-1149	Hole Full
Slate			1196	1220			
Sand			1220	1430			
Slate & Shells			1430	1453			



(Over)

Formation	Color	Hard or Soft	Top / 10	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			1453	1456			
Slate			1456	1472			
Little Lime			1472	1502			
Big Lime			1502		Gas	1589-1597	20/10 M 2"
Total Depth				1610		Blew down to	6/10 M 2"

Date February 10, 19 56

APPROVED SPARTAN GAS COMPANY, Owner

By _____ Engineer

(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Saint Albans

WELL RECORD

Permit No. Put.- 589D

Oil or Gas Well Gas
(KIND)

Company Well Service, Inc.
Address Kanawha Valley Building, Charleston, W. Va.
Farm Rembrandt Morgan Acres 95.94
Location (waters) Kanawha River
Well No. One Elev. 681.09
District Scott County Putnam
The surface of tract is owned in fee by Rembrandt Morgan
Address Winfield
Mineral rights are owned by Same
Address _____
Drilling commenced Sept. 27, 1957
Drilling completed Nov. 27, 1957
Date Shot 11/30/57 From 3485 To 4592
With 11,000 80% Gel
Open Flow 2 1/10ths Water in 2 (5 Hrs.) A.S. Inch
_____ /10ths Merc. in _____ Inch
Volume 193,000 Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____
WELL FRACTURED _____

Casing and Va. Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer _____
16			
13			Size of _____
10			
8 1/4			Depth set _____
6 5/8	<u>1767</u>	<u>1767</u>	
5 3/16 Liner		<u>311</u>	
3			Perf. top _____
2		<u>3944</u>	Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ 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
Deepened from 1610							
Big Lime			1502	1671			
Slate			1671	1681			
Broken Sand			1681	1695			
Sand			1695	1736			
Broken Sand			1736	1741			
Lime			1741	1790			
Slate & Shells			1790	1805			
Broken Sand			1805	1865			
Sand			1865	1941			
Slate & Shells			1941	2130			
Shale			2130	2155			
Berea Sand			2155	2179	SH. G & O	2160-2169	
Slate & Shells			2179	3355			
Brown Shale			3355	3401			
Slate & Shells			3401	3579			
Brown Shale			3579	3835	Gas	3684-3702	
Slate & Shells			3835	4245		3744-3759	
Shale			4245	4445		3770-3783	
Lime			4445	4535		3825-3839	
Sand (Oriskany)			4535	4575		3866	
Lime			4575	4592 T.D.		3892	
						4300	
						4485	
						4500-4508	
						4514-4522	
				4445			
				681			
				-3764			

