

Company ROBERT L. WOLFF
 Address 405 NATIONAL BANK OF COMMERCE BLDG. NEW ORLEANS 12, LA.
 Farm JENNINGS BOWLES
 Tract _____ Acres 55± Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 784' 840'
 Quadrangle WINFIELD - NE
 County JACKSON District RIPLEY
 Engineer G.H. Walsh, W.V. #1922
 Engineer's Registration No. _____
 File No. _____ Drawing No. _____
 Date 6-29-60 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. JAC-1013-D

+ 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.

No Sampler 66 # (192) Deep Well



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

Quadrangle Ripley

Permit No. JAC - 1013

WELL RECORD

Oil or Gas Well Gas

Company Robert L. Wolff
Address New Orleans, Louisiana
Farm J. K. Bowles, et al Acres 55
Location (waters) Eighteen Mile Creek
Well No. One Elev. 840' 784'
District Ripley County Jackson
The surface of tract is owned in fee by J. K. Bowles, et al
Address Rockcastle, W. Va.
Mineral rights are owned by J. K. Bowles, et al
Address Rockcastle, W. Va.

Drilling commenced 8-8-60
Drilling completed 9-2-60
Date Shot _____ From _____ To _____
With _____
Open Flow 10ths Water in _____ Inch
10ths Merc. in _____ inch
Volume 1,300,000 Cu. Ft.
Rock Pressure 575 lbs. 48 hrs.
Oil None bbls., 1st 24 hrs.
WELL ACIDIZED No
WELL FRACTURED No

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer <u>Anchor</u>
16			Packer
13			Size of <u>8 5/8" X</u>
10	<u>570</u>	<u>00</u>	<u>16"</u>
8 1/4	<u>1180</u>	<u>1180</u>	Depth set <u>1662'</u>
6 5/8			
5 3/16			
3			Perf. top _____
2" tubing	<u>1662</u>	<u>1662</u>	Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

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

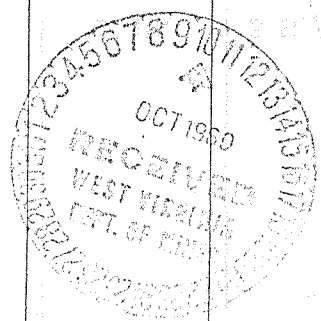
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

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
Red Rock			0	6			
Slate			6	30			
Red Rock			30	70			
Slate			70	130			
Red Rock			130	228			
Slate			228	252			
Red Rock			252	270			
Slate			270	340			
Red Rock			340	365			
Slate Shells			365	440			
Red Rock			440	470			
Slate & Shells			470	502			
Red Rock			502	516			
Slate & Shells			516	538			
Red Rock			538	545			
Slate & Shells			545	575			
Red Rock			575	590			
Slate & Shells			590	620			
Red Rock			620	635			
Slate & Shells			635	652			
Red Rock			652	708			
Slate & Shells			708	718			
Sand			718	735			



(over)

Formation	Color	Hard or Soft	Top //	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red Rock			735	808			
Slate & Shells			808				
Red Rock			871	891			
Slate & Shells			891	910			
Red Rock			910	952			
Slate & Shells			952	1026			
Sand			1026	1070			
Slate			1070	1078			
Sand			1078	1158			
Slate			1158	1220	Water	1140.	3 B./hr
Sand			1220	1298			
Slate			1298	1315	Oil	1220	Show
Sand			1315	1408	Water	1343	4 B./hr
Slate & Shells			1408	1510			
Sand			1510	1544			
Slate & Shells			1544	1603			
Black Slate			1603	1662			
Salt Sand			1662	1676	Gas	1662-76	1,200 MCF

JRC-1013

Date October 7, 1960

APPROVED Robert L. Wolff, Owner

By _____ (Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Ripley

Permit No. JAC-1013-D

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company Robert L. Wolff, et al
Address New Orleans, Louisiana
Farm J. K. Bowles, et al Acres 80
Location (waters) Eighteen Mile Creek
Well No. One (1) Elev. 784' 8/10'
District Ripley County Jackson
The surface of tract is owned in fee by J. K. Bowles, et al
Address Rockcastle, W. Vir.
Mineral rights are owned by J. K. Bowles, et al
Address Rockcastle, W. Vir.
Drilling commenced 8/8/60 (See note)
Drilling completed 7/19/61
Date Shot From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 300,000 Cu. Ft.
Rock Pressure 1300 lbs. 17 hrs.
Oil None bbls., 1st 24 hrs.
WELL ACIDIZED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10	570	00	Size of
8 1/2	1180	00	
8 7"	2168	2168	Depth set
4-1/2 4-1/2	4970	4970	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 4-1/2 SIZE 4970 No. Ft. 7/5/61 Date
75 sacks & squeezed w/50 sacks 8/2/61
Lawson Cementing Company
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

WELL FRACTURED 7/21/61 w/500 bbl. jelled water & 12,000 lbs. 20-40 sand.

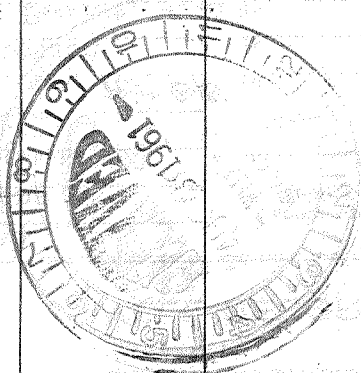
RESULT AFTER TREATMENT 2,000,000 cu. ft.

ROCK PRESSURE AFTER TREATMENT 1320 lbs. - 12 hours

Fresh Water 1140' Feet 1343' Salt Water None Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Red Rock			0	6			
Slate			6	30			
Red Rock'			30	70			
Slate			70	130			
Red Rock			130	228			
Slate			228	252			
Red Rock			252	270			
Slate			270	340			
Red Rock			340	365			
Slate Shells			365	440			
Red Rock			440	470			
Slate & Shells			470	502			
Red Rock			502	516			
Slate & Shells			516	538			
Red Rock			538	545			
Slate & Shells			545	575			
Red Rock			575	590			
Slate & Shells			590	620			
Red Rock			620	635			
Slate & Shells			635	652			
Red Rock			652	708			
Slate & Shells			708	718			
Sand			718	735			

Formation	Color	Hard or Soft	Top ^{2'}	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red Rock			735	808			
Slate & Shells			808	871			
Red Rock			871	891			
Slate & Shells			891	910			
Red Rock			910	952			
Slate & Shells			952	1026			
Sand			1026	1070			
Slate			1070	1078			
Sand - <i>Big Limestone?</i>			1078	1158			
Slate			1158	1220	Water	1140	3 B/hr
Sand			1220	1298			
Slate			1298	1315	Oil	1220	Show
Sand			1315	1408	Water	1343	4 B/hr
Slate & Shells			1408	1510			
Sand			1510	1544			
Slate & Shells			1544	1603			
Black Slate			1603	1662			
Salt Sand			1662	1676	Gas	1662-76	1,200 MCF
Note: Produced from Salt Sand 9/2/60 to 3/28/61; gas exhausted and well deepened to Oriskany on 4/4/61.							
Salt Sand			1676	1860			
Big Lime			1860	2038			
Injun Sand			2038	2155			
Black Lime			2155	2165			
Slate & Shell			2165	2535			
Brown Shell			2535	2575			
Coffee-Slate			2575	2590			
Bera Shell			2590	2593			
Slate-Shell			2593	3200			
Gray Shale			3200	3300			
Brown Shale - <i>441</i>			3300	3500	Show Gas	3250	
Slate			3500	3725			
Brown Shale			3725	3785			
Slate			3785	3975			
Brown Shale			3975	4050	<i>4896</i>	<i>4970</i>	
Slate & Shell			4050	4155	<i>840</i>	<i>840</i>	
Brown Shale			4155	4275	<i>4056</i>	<i>4130</i>	
Slate & Shell			4275	4600			
Brown Shale			4600	4896			
Corniferous Lime - <i>463</i>			4896	4970	Smell Oil	4920	
Oriskany Sand			4970	4990	Gas		300,000 cu. ft.



Date 8/8/61, 19__

APPROVED *Robert A. Sawyer*, Owner

By _____ (Title)