



MINIMUM ERROR OF CLOSURE 1/500
 SOURCE OF ELEVATION Well No 2 - Elev. 940

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."

Company Charles R. Johnston, Jr.
 Address 106 Swissvale Ave., Pittsburgh, 18, Pa.
 Farm L. M. and E. B. Lee
 Tract 1 Acres 106 Lease No. _____
 Well (Farm) No. 3 Serial No. _____
 Elevation (Spirit Level) 883
 Quadrangle West Union NW
 County Tyler District Meade
 Engineer Parker E. Peters
 Engineer's Registration No. 485
 File No. _____ Drawing No. _____
 Date Oct. 13, 1966 Scale 1" = 30 P.

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. Tyler-412

+ 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 &

Rotary
Spudder
Cable Tools
Storage

Quadrangle.....

WELL RECORD

Permit No. TVL 412

Oil or Gas Well Gas
(KIND)

Company C. B. Johnston Jr
Address 111 East Swissvale Ave. Pittsburgh 18, Pa.
Farm E. Measent, Inc. Acres 1.06
Location (waters).....
Well No. 3 Elev. 883
District Mead County Tyler
The surface of tract is owned in fee by Raymond C. Lee et al.
331 Rowland Ave. Address Carnegie Pa - 15106
Mineral rights are owned by 1/2 - Raymond C. Lee et al.
Mr. Dan & Helen Robinson Address P.O. #3 Cadwell, Ohio
Drilling commenced May 11 - 1967
Drilling completed Aug 4 - 1967
Date Shot Aug 10 From 1674 To 1686
With 38 qt Nitro Gels
Open Flow 14/10ths Water in 2" Inch
10ths Merc. in Inch
Volume 158 McF Cu. Ft.
Rock Pressure 150 lbs. 24 hrs.
Oil none bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS).....
WELL FRACTURED (DETAILS).....

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer.....
13			
10	<u>39'</u>	<u>39'</u>	Size of.....
8 1/4	<u>370'</u>	<u>Pulled</u>	
6 1/4	<u>970'</u>	<u>Pulled</u>	Depth set.....
5 3/16	<u>1560</u>	<u>1560</u>	
4 1/2			
3			Perf. top.....
2			Perf. bottom.....
Liners Used			Perf. top.....
			Perf. bottom.....

Attach copy of cementing record.
CASING CEMENTED..... SIZE..... No. Ft..... Date.....
Amount of cement used (bags).....
Name of Service Co.....
COAL WAS ENCOUNTERED AT (none) FEET..... INCHES.....
..... FEET..... INCHES..... FEET..... INCHES.....
..... FEET..... INCHES..... FEET..... INCHES.....

RESULT AFTER TREATMENT (Initial open Flow or bbls.).....

ROCK PRESSURE AFTER TREATMENT..... HOURS.....
Fresh Water 95', 45', 85' Feet 1165', 1385' Salt Water..... Feet.....
Producing Sand Max 4 Depth 1670 - 1688

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay	red	soft	0	20	little water	25'	
Lime	gray	Hard	20	25	little water	45'	
Shale	gray	soft	25	40	little water	85'	
Lime	gray	Hard	40	60			
Shale	red	soft	60	83			
Lime shells	gray	med	83	140			
Lime	gray	Hard	140	163			
Shale	red	soft	163	180			
Lime shells	gray	med	180	230			
Shale	red	soft	230	265			
Lime	gray	Hard	265	285			
Shale	gray	soft	285	290			
sand	white	Hard	290	330			
Shale	gray	med	330	370			
Slated shells	Brown	Hard to soft	370	428			
Lime	Brown	Hard	428	475			
Shale	gray	soft	475	515			
Red Shale	red	soft	515	525			
Shale	gray	med	525	570			
Lime shells	Brown	Hard	570	615			
Shale	gray	med	615	645			
Shale	gray	soft	645	660			
Lime shells	gray	med	660	670			



OCT 10 1967

Formation	Color	Hard or Soft	Top $\frac{8}{}$	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime	gray	Hard	670	700			
sand	white	Hard	700	724			
Red Rock	red	Soft	724	815			
Broke Lime	gray	med	815	840			
Lime gritty	gray	med	840	870			
Shale	gray	Soft	870	885			
Red Rock	red	Soft	885	912			
Lime	gray	Hard	912	923			
Shale	greentred	Soft	923	934			
Lime Broken	gray	med	934	945			
Shale	Black	Soft	945	980			
Lime gritty	Brown	Hard	980	1002			
Shale	gray	Soft	1002	1015			
Shale shells	Black	med	1015	1054			
Lime gritty	gray	med	1054	1060			
sand	white	med	1060	1090			
Lime gritty	gray	Hard	1090	1108			
Shale	gray	med	1108	1123			
Lime	gray	Hard	1123	1162	Little Water	1165	
Sand sharp	white	Hard	1162	1260			
Lime gritty	white	Hard	1260	1304			
Slates shells	Black	med	1304	1336			
Lime	gray	Hard	1336	1354	More Fall Water	1385	
sand	white	Hard	1354	1455			
Lime gritty	gray	Hard	1455	1470			
Shale	Black	med	1470	1480			
Lime	gray	med	1480	1488			
Lime gritty	pink	med	1488	1500			
Lime	gray	Hard	1500	1508			
Shale	Black	med	1508	1515			
Lime shell	Black	Hard	1515	1517			
Shale	Black	med	1517	1548			
Lime	gray	med	1548	1566			
Lime	Black	med	1566	1584			
Shale	Black	med	1584	1606			
Lime	Black	med	1606	1612			
Shale	Black	med	1612	1626			
Lime	gray	Hard	1626	1637			
Shale	Black	Soft	1637	1676	1738		
Lime sand	Black	Hard	1670	1673	883		
Sand maxon	white	Hard	1673	1687	855		
Shale	Black	Soft	1687	1707			
Lime	gray	Hard	1707	1715			
Shale	Black	med	1715	1738			
Lime	gray	Hard	1738	1743			
Total Depth				1743			

Date Sept. 12, 1906

APPROVED Charles B. Johnston Jr., Ow

By _____ (Title)