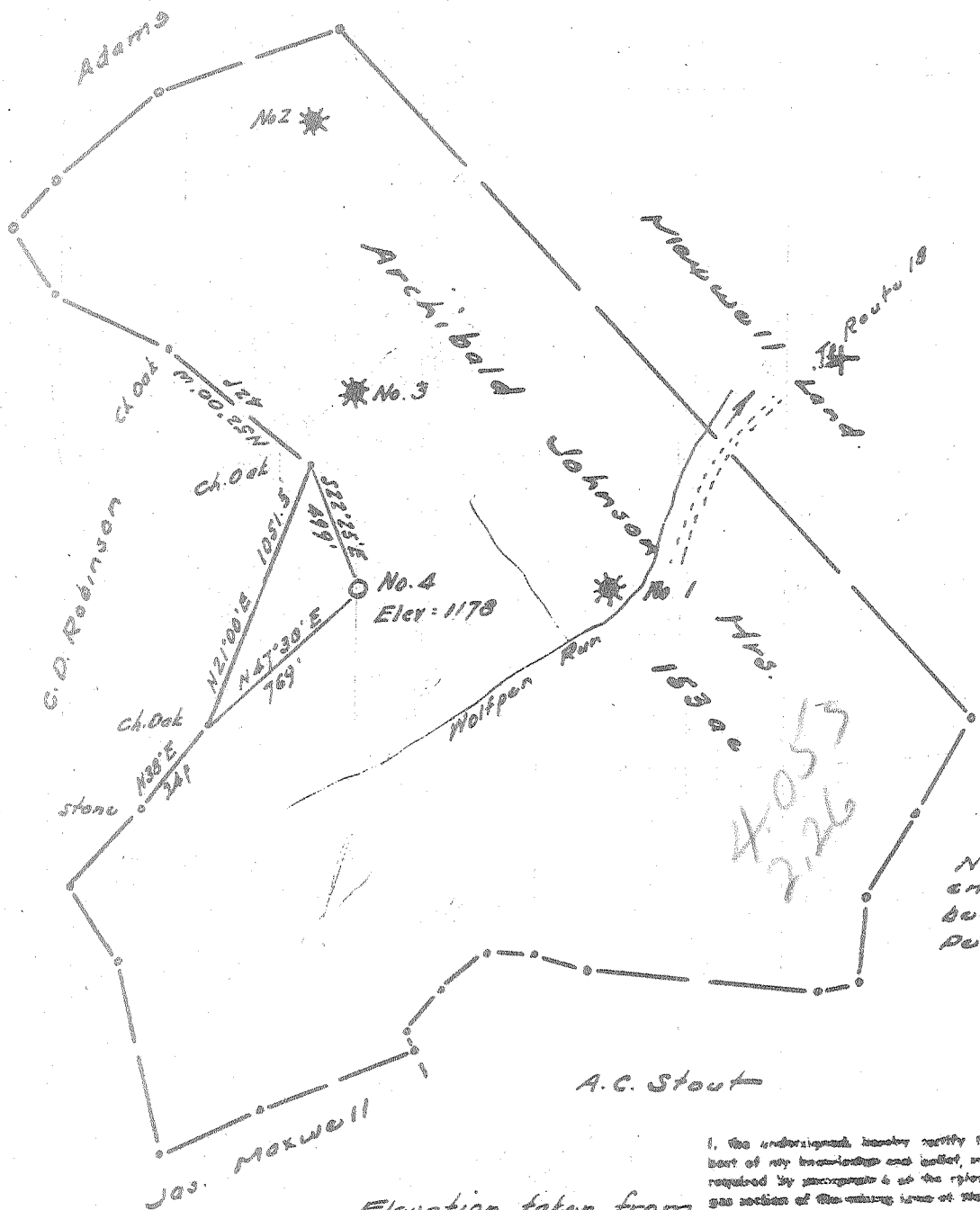


Latitude 39° 15'

Longitude 80° 40'



Elevation taken from Well No 3 = 1159'

I, the undersigned hereby certify that this map is correct to the best of my knowledge and belief, and shows all of the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

W. P. L. No. 1237

- New Location
- Drill Deeper
- Abandonment

Error in closure: - Less than 1/500'

Company Johnson Oil & Gas Co.
 Address Clarence Powell, Apt. West Vaia, D. Va.
 Farm Archibald Johnsons Hrs.
 Tract _____ Acres 153 Lease No. _____
 Well (Farm) No. Four Serial No. _____
 Elevation (Spirit Level) 1178
 Quadrangle Vadis NW
 County Doddridge District New Milton
 Engineer W. P. L. No. 1237
 Engineer's Registration No. 1237
 File No. _____ Drawing No. _____
 Date June 16, 1963 Scale 1" = 400' = 660'

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

WELL LOCATION MAP
FILE NO. Ded-1018

+ 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.

6-6 134



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle Vadis

Permit No. DOD- 1018

WELL RECORD

Oil or Gas Well Gas & Oil
(KIND)

Company Johnson Oil & Gas Company
Address C. Powell, Agent, West Union, W. Va.
Farm A. Johnson Heirs Acres 157

Location (waters) Thomas Fork
Well No. 4 Elev. 1178
District New Milton County Doddridge

The surface of tract is owned in fee by
A. Johnson Heirs Address West Union, W. Va.

Mineral rights are owned by
A. Johnson Heirs Address West Union, W. Va.

Drilling commenced August 18, 1963
Drilling completed October 16, 1963
Date Shot _____ From _____ To _____
With _____

Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume 341,000 ✓ Cu. Ft.

Rock Pressure 540 lbs. 12 hrs.
Oil 5 bbls., 1st 24 hrs.

WELL ACIDIZED _____

WELL FRACTURED Yes- Dowell

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of <u>Plug</u>
16			Size of <u>4 1/2"</u>
13			Depth set <u>2325'</u>
10	<u>278</u>		Perf. top <u>2322'</u>
8 1/2	<u>1353</u>		Perf. bottom <u>2355'</u>
6 5/8	<u>1741</u>	<u>1741</u>	Perf. top _____
5 3/16	<u>2112</u>	<u>2112</u>	Perf. bottom _____
3 1/2	<u>2365</u>	<u>2365</u>	
<u>Tubing</u>		<u>2326</u>	
Liners Used _____			

CASING CEMENTED Yes SIZE 4 1/2" Ft. 10-2-63 Date
Dowell (470' of 4 1/2")

COAL NO ENCOUNTERED AT NO FEET _____ INCHES
_____ FEET _____ INCHES
_____ FEET _____ INCHES

RESULT AFTER TREATMENT 25 BBL per day ✓

ROCK PRESSURE AFTER TREATMENT 610

Fresh Water NO Feet _____ Salt Water NO Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Red Rock			0	7			
Sand			7	70			
Slate			70	80			
Red Rock			80	118			
Slate			118	180			
Sand			180	203			
Slate			203	240			
Sand			240	258			
Slate			258	264			
Red Rock			264	275			
Slate			275	400			
Red Rock			400	475			
Slate & Shells			475	504			
Red Rock			504	565			
Slate & Shells			565	652			
Red Rock			652	705			
Sand		Hard	705	732			
Slate			732	752			
Sand			752	772			
Slate & Shells			772	932			
Sand			932	965			
Slate			965	975			
Red Rock			975	990			
Sand			990	1002			
Red Rock			1002	1025			
Slate			1025	1040			
Red Rock			1040	1100			



Formation	Color	Hard or Soft	Top <i>ft</i>	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate		Hard	1110	1115			
Lime			1115	1130			
Red Rock			1130	1140			
Slate			1140	1210			
Sand			1210	1225			
Slate			1225	1235			
Red Rock			1235	1245			
Slate			1245	1295			
Slate			1295	1310			
Rock	Pink		1310	1320			
Slate			1320	1334			
Red Rock			1334	1345			
Slate			1345	1355			
Sand			1355	1387			
Slate			1387	1400			
Sand			1400	1430			
Slate			1430	1500			
Sand			1500	1594			
Slate			1594	1630			
Sand			1630	1650			
Slate		1650	1679				
Sand		1679	1774				
Slate & Shells		1774	1798				
Sand		1798	1810				
Lime		1810	1825				
Slate		1845	1900				
Sand		1900	1920				
Slate		1920	1930				
Sand		1930	1995				
Slate		1995	2045				
Sand		Hard	2045	2052			
Slate			2052	2135			
Sand			2135	2208			
Lime			2208	2218			
Sand			2218	2252	Oil 2239- 2234		
Lime (Big)			2252	2275			
Sand			2275	2361	Oil & Gas - 2286		
Sand			2361	2369	Oil 2322 - 2329		
				2369	Total Depth		

Date December 17, 1963

APPROVED Clarence Powell, Agent, Owner

By A. Johnson Oil & Gas Co.
(Title)