

I, the undersigned, further certify that this plan is drawn to the best of my knowledge and belief and that all of the information required to prosecute a case in the courts and compliance of the law and for section of the mining laws of West Virginia.

*W. H. Stewart*  
R. P. 1, 1964

- New Location
- Drill Deeper
- Abandonment

Elev. mouth of Long Run = 740'

Error in Closure :- Less than 1' in 200'

Company Rudder Oil and Gas Co.  
 Address P.O. Box 126, Bulpro, Ohio  
 Farm Harman P. Webb  
 Tract \_\_\_\_\_ Acres 215 Lease No. \_\_\_\_\_  
 Well (Farm) No. One Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 853'  
 Quadrangle West Union - SC  
 County Doddridge District Central  
 Engineer W. H. Stewart  
 Engineer's Registration No. 1227  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Aug. 26, 1964 Scale 1" = 40p = 660'

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

**WELL LOCATION MAP**  
FILE NO. Dod-1177

+ 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 13

Rotary   
Spudder   
Cable Tools   
Storage

Oil or Gas Well gas  
(KIND)

Quadrangle West Union  
Permit No. DOD-1177

WELL RECORD

Company Rudder Oil and Gas Company  
Address P. O. Box 126, Belpre, Ohio  
Farm Harman P. Webb Acres 215  
Location (waters) Long Run  
Well No. 1 Elev. 853  
District Central County Doddridge  
The surface of tract is owned in fee by Harman P. Webb  
Address 712 Rayond Dr. Parkersburg, W. Va.  
Mineral rights are owned by same  
Address \_\_\_\_\_  
Drilling commenced September 4, 1964  
Drilling completed October 9, 1964  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
Volume show \_\_\_\_\_ Cu. Ft.  
Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
Oil none \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED \_\_\_\_\_

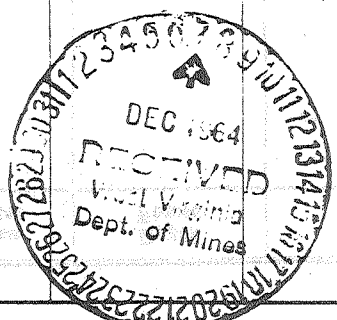
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer _____
16			
13	12	12	
10	494		Size of _____
8 1/4	1106		Depth set _____
6 1/2	1825		(3 holes)
5 3/16			Perf. top <u>1838</u>
X 4 1/2		2021	Perf. bottom <u>1840</u>
2			Perf. top _____
Liners Used			Perf. bottom _____

CASING CEMENTED 4 1/2 SIZE 2021 No. Ft. 10/21/64 Date  
Lawson Cmtg. Co. 43 sacks cement

COAL WAS ENCOUNTERED AT -0- FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

WELL FRACTURED Halliburton Company 10/15/64  
31,878 gals. water; 20,000 lbs. 20/40 sand; 10,000 lbs. 10/20 sand  
RESULT AFTER TREATMENT 400,000  
ROCK PRESSURE AFTER TREATMENT 710 24 hours  
Fresh Water \_\_\_\_\_ Feet Salt Water \_\_\_\_\_ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
<u>DRILLER'S LOG</u>							
Yellow Clay		soft	0	30			
Red rock		soft	30	80			
Slate		soft	80	120			
Red rock		soft	120	145			
Sand		hard	145	155			
Red rock		soft	155	185			
Sand		hard	185	200			
Red rock		soft	200	235			
Sand		hard	235	252			
Red rock		soft	252	270			
Broken sand		hard	270	315			
Slate		soft	315	355			
Red rock		soft	355	358			
Lime		hard	358	410			
Red rock		soft	410	425			
Sand		hard	425	485			
Slate		soft	485	495			
Sand		hard	495	503			
Slate		soft	503	508			
Sand		hard	508	525			
Slate		soft	525	535			
Slate		soft	535	585			
Lime		hard	585	600			
Slate		soft	600	677			



Formation	Color	Hard or Soft	Top 13	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand		hard	677	690			
Slate		soft	690	697			
Red Rock		soft	697	765			
Slate		soft	765	800			
Red rock		soft	800	910			
Slate (shells)		soft	910	920			
Red rock		soft	920	940			
Slate		soft	940	1023			
Sand		hard	1023	1060			
Slate		soft	1060	1095			
Sand		hard	1095	1110			
Slate		soft	1110	1120			
Sand		hard	1120	1130			
Slate		soft	1130	1243			
Sand		hard	1243	1250			
Slate		soft	1250	1280			
Sand		hard	1280	1350			
Slate		soft	1350	1363			
Sand		hard	1363	1460	water	1363-1380	3 bailers hr.
Slate		soft	1460	1475			
Sand		hard	1475	1505			
Slate		soft	1505	1555			
Sand		hard	1555	1650			
Slate		soft	1650	1655			
Sand		hard	1655	1672			
Slate		soft	1672	1753			
Red rock		soft	1753	1760			
Slate		soft	1760	1790			
Lime		hard	1790	1815			
Slate		soft	1815	1822			
Lime		hard	1822	1893			
Sand		hard	1893	1983	gas	1947-1949	
Slate		soft	1983	2145			
Sand (Gantz/Weir?)		hard	2145	2267			
Slate (Shells)		soft	2267	2789			

Date December 4, 19 64

APPROVED Rudder Oil and Gas Company, Owner

By Neal Rudder  
President (Title)