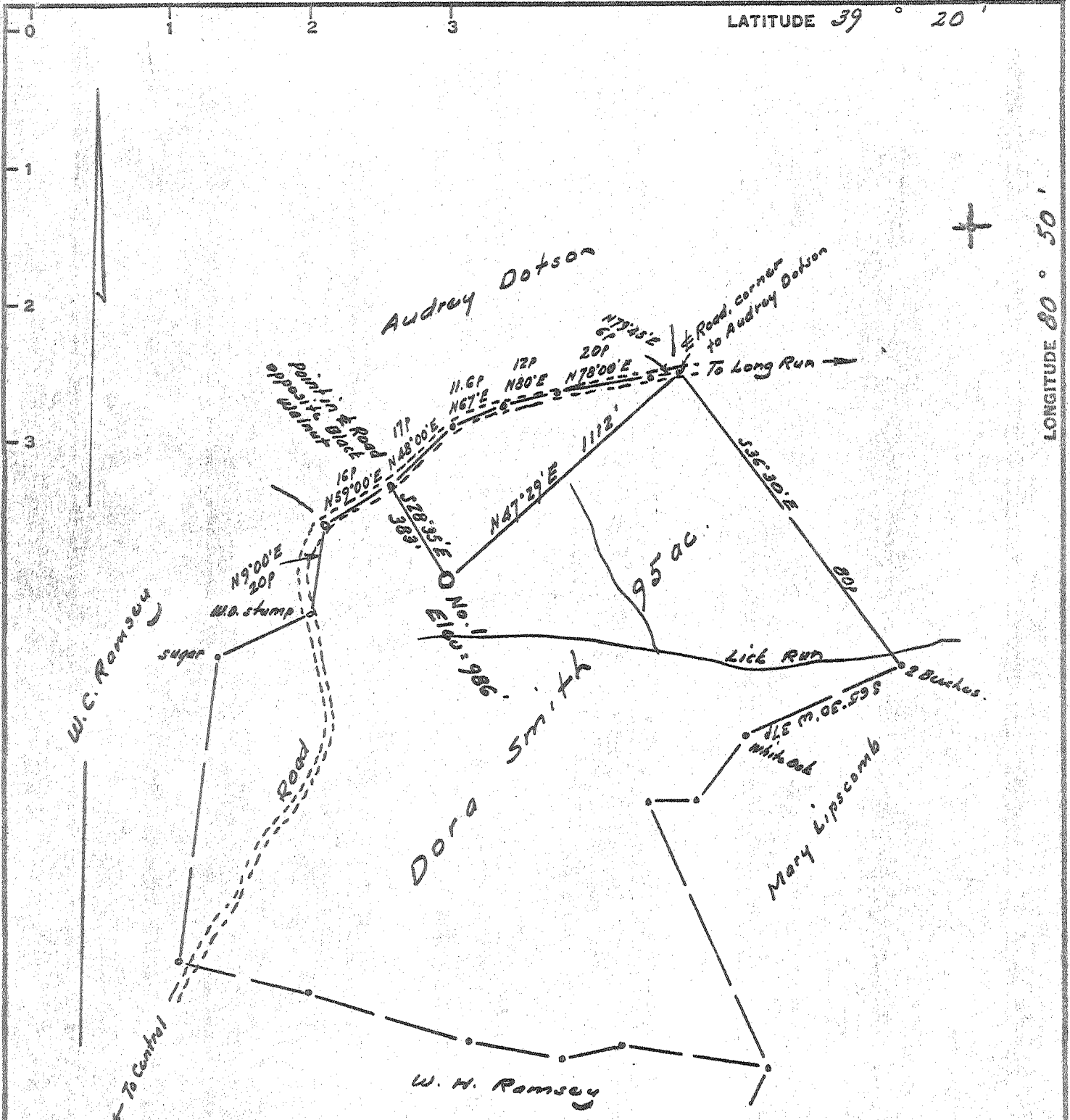


7209-7/1/69 CSN



Elev. Reference  
U.S.G.S. elev. at mouth  
of Long Run = 740'

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. H. Ramsey*  
E. P. G. No. 1227

New Location   
Drill Deeper   
Abandonment

Issued 7-2-69

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

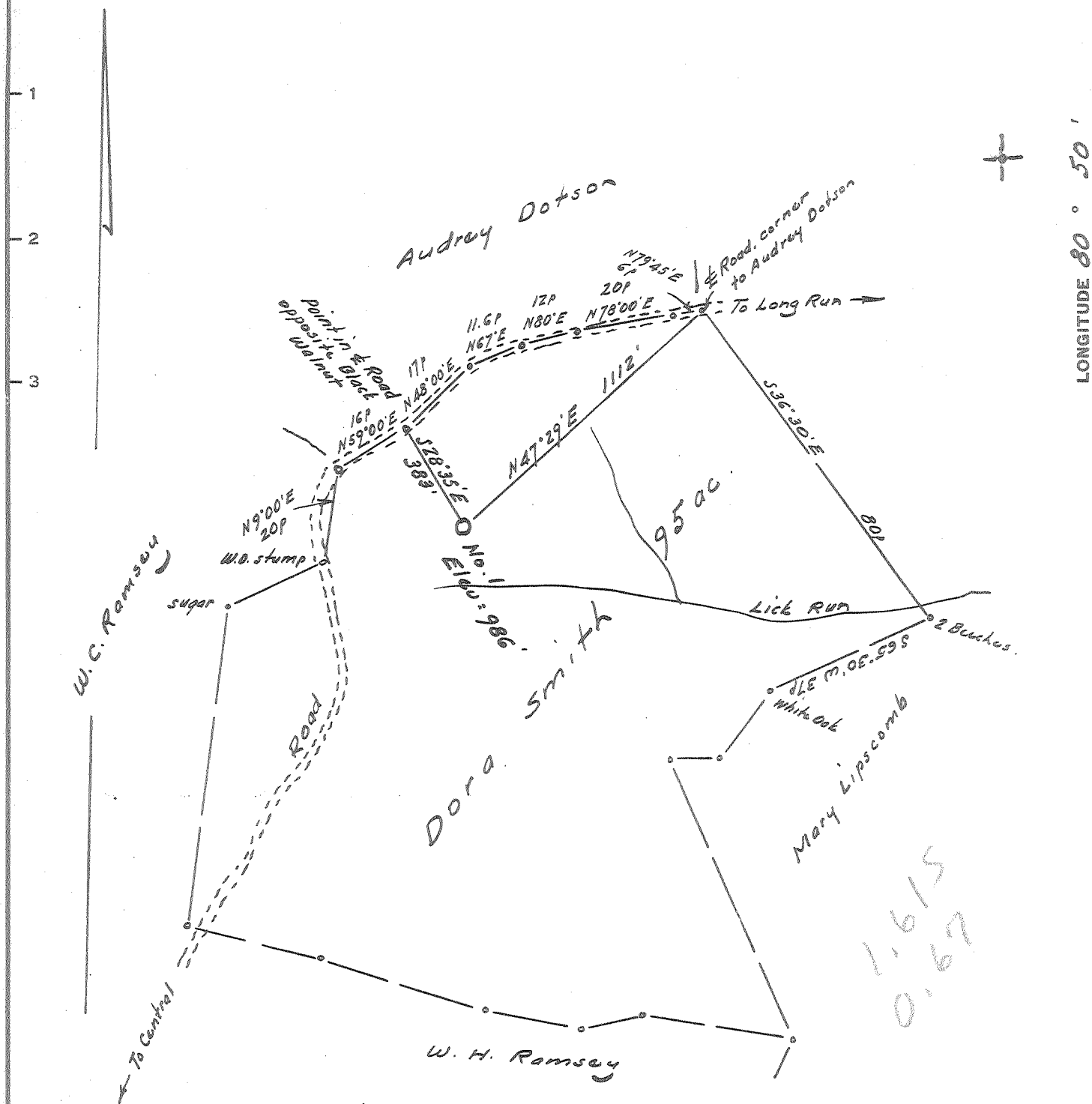
Company	Rudder Oil & Gas Co
Address	Box 126, Belpre, Ohio
Address	Box 348, Parkersburg, W. Va.
Farm	Dora Smith
Tract	Acres 95
Lease No.	
Well (Farm) No.	One
Serial No.	
Elevation (Spirit Level)	986'
Quadrangle	West Union 5C
County	Doddridge
District	Central
Engineer	<i>W. H. Ramsey</i>
Engineer's Registration No.	1227
File No.	
Drawing No.	
Date	May 11, 1964
Scale	1" = 300' 495'

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

WELL LOCATION MAP  
FILE NO. 001-1130-P

+ 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.



Elev. Reference  
 U.S.G.S. elev. at mouth  
 of Long Run = 740'

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 1 of the rules and regulations of the oil and gas section of the Mining Code of West Virginia.

*W. H. Ramsey*  
 E. P. S. No. 1227

- New Location
- Drill Deeper
- Abandonment

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

Company Rudder Oil & Gas Co  
 Address Box 2118, Parkersburg, W. Va.  
 Farm Dora Smith  
 Tract \_\_\_\_\_ Acres 95 Lease No. \_\_\_\_\_  
 Well (Farm) No. One Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 986'  
 Quadrangle West Union SC  
 County Doddridge District Central  
 Engineer W. H. Ramsey  
 Engineer's Registration No. 1227  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date May 11, 1964 Scale 1" = 300' = 495'

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

WELL LOCATION MAP  
 FILE NO. Dod-1130

+ 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 4

Rotary   
Spudder   
Cable Tools   
Storage

Quadrangle West Union

Permit No. DOD-1130

WELL RECORD

Oil or Gas Well oil  
(KIND)

Company Rudder Oil & Gas Company  
Address Box 126, Belpre, Ohio  
Farm Dora Smith Acres 96  
Location (waters) Lick Run  
Well No. 1 Elev. 986  
District Central County Doddridge  
The surface of tract is owned in fee by Gertie Towner  
Address Central Station  
Mineral rights are owned by N. M. Welch  
Address Parkersburg, W. Va.  
Drilling commenced June 10, 1964  
Drilling completed July 16, 1964  
Date Shot From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow 50 /10ths Water in \_\_\_\_\_ Inch  
/10ths Merc. in \_\_\_\_\_ Inch  
Volume 300,000 Cu. Ft.  
Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
Oil show bbls., 1st 24 hrs.  
WELL ACIDIZED \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13	15	15	
10	250	0	Size of
8 1/4	1108	0	
6 5/8			Depth set
5 1/2	16.4 1/2	2,147	
3			Perf. top <u>2,060</u>
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

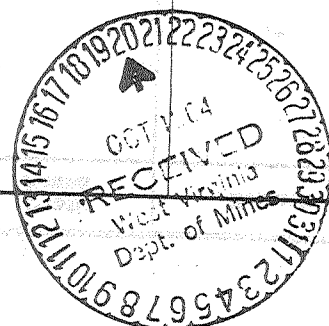
CASING CEMENTED 4 1/2 SIZE 2,147 No. Ft. 7/17/64 Date  
Lawson Cmtg Co. 70 sks 4 gel 4 lime  
COAL WAS ENCOUNTERED AT none FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

WELL FRACTURED Dowell 7/25/64  
50,000 # sand 50,000 gal water  
RESULT AFTER TREATMENT 5 barrels

ROCK PRESSURE AFTER TREATMENT 250 # 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>							
Rock	red	soft	0	19			
Lime		hard	19	50			
Rock	red	soft	50	120			
Sand		hard	120	140			
Shale	gray	soft	140	155			
Rock	red	soft	155	219			
Sand		hard	219	249			
Shale	gray	soft	249	295			
Sand		hard	295	314			
Rock	red	soft	314	360			
Sandy shale		hard	360	400			
Rock	red	soft	400	581			
Sand		hard	581	660			
Slate		soft	660	672			
Sand		hard	672	680			
Slate & shells		soft	680	736			
Lime		hard	736	760			
Slate		soft	760	828			
Lime		hard	828	860			
Slate		soft	860	900			
Rock	red	soft	900	958			
Sand		hard	958	1166			
Rock	red	soft	1166	1198			
Sand		hard	1198	1238			

(over)



Formation	Color	Hard or Soft	Top 4	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate		soft	1238	1260			
Sand		hard	1260	1271			
Lime		hard	1271	1380			
Salt Sand		hard	1380	1494			
Slate		soft	1494	1516			
Sand		hard	1516	1643			
Slate		soft	1643	1703			
Sand		hard	1703	1726			
Slate		soft	1726	1745			
Lime		hard	1745	1868			
Slate		soft	1868	1890			
Rock	pink	soft	1890	1925			
Rock	red	soft	1925	1956			
Big Lime		hard	1956	2015			
Keener		hard	2015	2038	gas show	2020	50/10 W2"
Big Injun		hard	2038	2080	oil show	2055-2065	
Squaw		hard	2080	2122			
Shale		soft	2122	2146			

Date October 19, 19 64

APPROVED Rudder Oil & Gas Company, Owner

By Neal Rudder  
President (Title)