

I, the undersigned, certify that the information furnished to the State of West Virginia is true and correct to the best of my knowledge and belief.

*W. H. H. H.*  
R. P. No. 1227

2.181  
0.413

New Location   
Drill Deeper   
Abandonment

ISSUED NOV. 13, 1967

Elev. ref.:- Triangle Well A-1: 1043'  
Error in Closure:- Less than 1' in 200

Company Rudder Oil & Gas Co.  
 Address P.O. Box 126, Belara, Ohio  
 Farm H. H. Shinn  
 Tract \_\_\_\_\_ Acres: 1 Lease No. \_\_\_\_\_  
 Well (Farm) No. 2-A Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 946'  
 Quadrangle West Union 36  
 County Doddridge District Central  
 Engineer W. H. H. H.  
 Engineer's Registration No. 1227  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Aug 29, 1965 Scale 1" = 300' = 495'

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

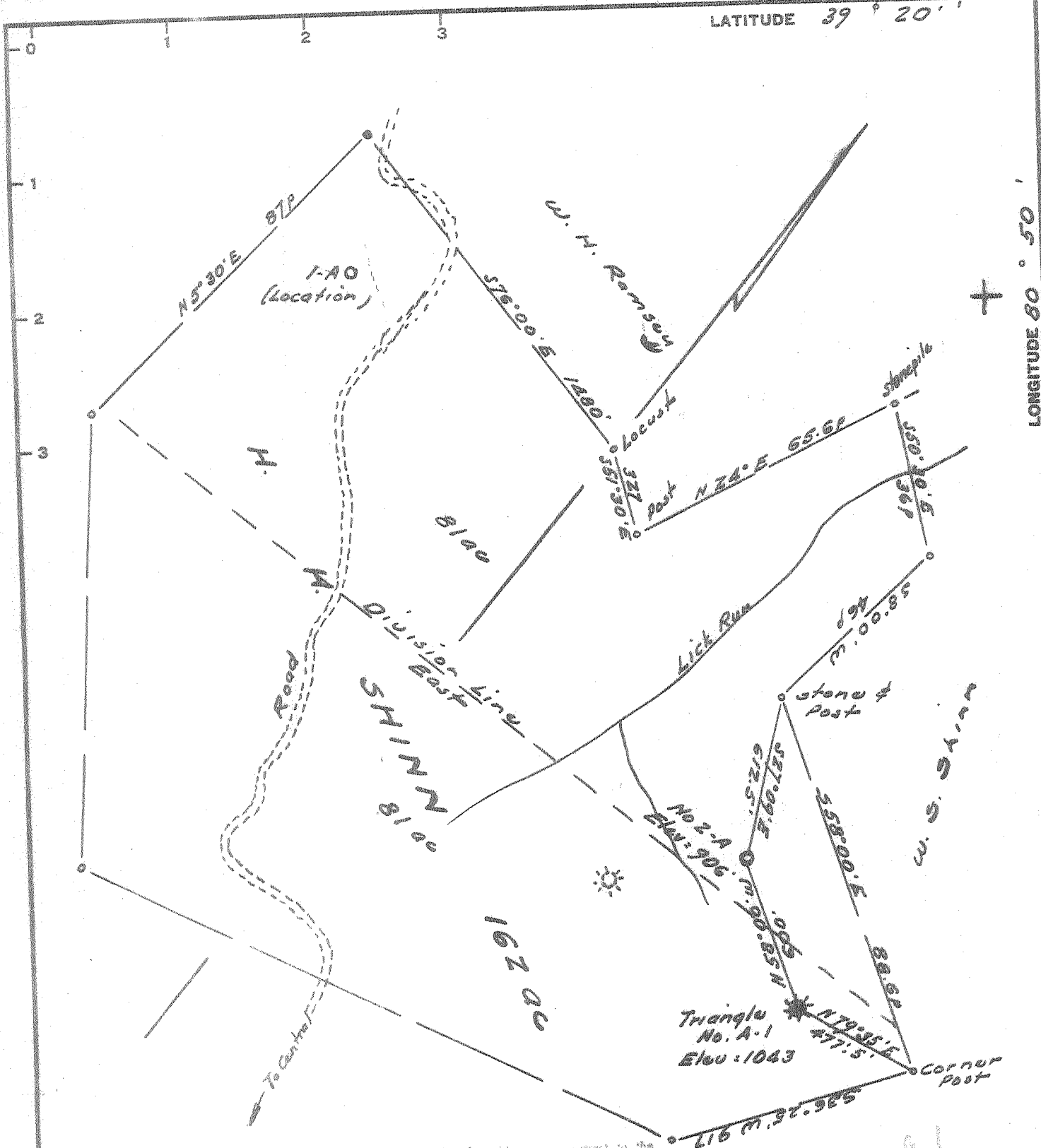
WELL LOCATION MAP  
FILE NO. DOD-1301 P

+ 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.

LATITUDE  $39^{\circ} 20'$

LONGITUDE  $80^{\circ} 50'$



I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief, and that the information contained herein is true and correct to the best of my knowledge and belief.

*W. H. Ramsay*  
S. P. No. 1337

2,181  
0.43

New Location   
 Drill Deeper   
 Abandonment

ISSUED Nov. 13, 1967

Elev. ref.:- Triangle Well A-1 = 1043'  
 Error in closure:- Less than 1' in 200

Company Rudder Oil & Gas Co.  
 Address P.O. Box 126, Belore, Ohio  
 Farm H. H. Shinn  
 Tract \_\_\_\_\_ Acres: 1 Lease No. \_\_\_\_\_  
 Well (Farm) No. 2-A Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 946'  
 Quadrangle West Union 38  
 County Putnam District Central  
 Engineer W. H. Ramsay  
 Engineer's Registration No. 1227  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Aug 29, 1965 Scale 1" = 300' = 495'

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

WELL LOCATION MAP  
 FILE NO. DOD-1301 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.

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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Rotary   
Spudder   
Cable Tools   
Storage

1-28-66  
43

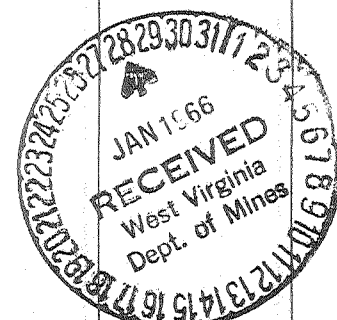
Quadrangle West Union  
Permit No. DOD-1301

WELL RECORD

Oil or Gas Well both  
(KIND)

Company <u>Rudder Oil &amp; Gas Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>P. O. Box 126, Belpre, Ohio 45714</u>	Size			
Farm <u>Sina E. Shinn</u> Acres <u>81</u>	16			Kind of Packer
Location (waters) <u>Lick Run</u>	13	16'	16'	Size of
Well No. <u>2-A</u> Elev. <u>946</u>	10	291		Depth set
District <u>Central</u> County <u>Doddridge</u>	8 3/4	995		
The surface of tract is owned in fee by <u>Sina Shinn et al</u>	6 3/4			
Address <u>119 Court Street, West Union, W. Va.</u>	5 3/16		2082	
Mineral rights are owned by <u>same</u>	4 1/2			Perf. top <u>2,008</u> holes
Address	3			Perf. bottom <u>1,997</u>
Drilling commenced <u>September 7, 1965</u>	2			Perf. top <u>1,999.9</u> hole
Drilling completed <u>October 11, 1965</u>				Perf. bottom <u>1,957.5</u> "
Date Shot From To	Liners Used			
With				
Open Flow /10ths Water in. Inch	Attach copy of cementing record.			
/10ths Merc. in. Inch	CASING CEMENTED <u>4-1/2</u> SIZE <u>2082</u> No. Ft. <u>10/12/65</u> Date			
Volume <u>show</u> Cu. Ft.	Amount of cement used (bags) <u>60 cem, 6 gel, 2 lime</u>			
Rock Pressure lbs. hrs.	Name of Service Co. <u>Lawson Cementing Co.</u>			
Oil <u>show</u> bbls., 1st 24 hrs.	COAL WAS ENCOUNTERED AT <u>none</u> FEET INCHES			
WELL ACIDIZED (DETAILS)	FEET INCHES FEET INCHES			
WELL FRACTURED (DETAILS) <u>Dowell 10/21/65 - 2 stage cyro-frac Big Injun 12,000# 20/40 sand</u>	FEET INCHES FEET INCHES			
<u>300 bbls. diesel oil, 225,000 SCF nitrogen, Keener 5,000# 20/40 sand, 400# glass beads,</u>				
RESULT AFTER TREATMENT (Initial open Flow or bbls.) <u>15 bbls oil, 100,600 cu. ft. gas</u> / <u>250 bbls diesel oil,</u>				
ROCK PRESSURE AFTER TREATMENT <u>400 PSI</u> HOURS <u>24</u> / <u>225,000 SCF nitrogen</u>				
Fresh Water Feet	Salt Water Feet			
Producing Sand <u>Big Injun &amp; Keener</u> Depth				

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
<b>DRILLER'S LOG</b>							
Sand		hard	0	60			
Red Rock		soft	60	85			
Lime		hard	85	125			
Slate & Shells		soft	125	181			
Red Rock		soft	181	185			
Lime		hard	185	210			
Red Rock		soft	210	240			
Slate		soft	240	265			
Red Rock		soft	265	287			
Lime		hard	287	300			
Slate & Shells		soft	300	455			
Red Rock		soft	455	485			
Sand & Lime		hard	485	598			
Slate & Shells		soft	598	625			
Lime		hard	625	650			
Slate & Shells		soft	650	720			
Sand		hard	720	755			
Red Rock		soft	755	850			
Slate & Shells		soft	850	940			
Red Rock		soft	940	980			
Slate		soft	980	1060			
Lime		hard	1060	1095			
Sand		hard	1095	1149			
Slate		soft	1149	1155			
Sand		hard	1155	1248			



Formation	Color	Hard or Soft	Top 8	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate & Shells		soft	1248	1325			
Sand		hard	1325	1525			
Lime		hard	1525	1616			
Sand		hard	1616	1655			
Lime		hard	1655	1675			
Sand		hard	1675	1699			
Slate		soft	1699	1723			
Sand		hard	1723	1762			
Slate		soft	1762	1770			
Sand		hard	1770	1800			
Red Rock		soft	1800	1827			
Slate		soft	1827	1838			
Lime		hard	1838	1855			
Slate		soft	1855	1865			
Big Lime		hard	1865	1945			
<del>Keener Sand</del>		hard	1945	1970	show oil	@ 1960	
<del>Injun Sand</del>		hard	1970	2001	smell gas	@ 1985	
<del>Squaw Sand</del>		hard	2001	2032			
Slate & Shells		soft	2032	2082			

Date January 26, 1966

APPROVED Rudder Oil & Gas Company, Owner

By Neal Rudder  
President (Title)