

MINIMUM ERROR OF CLOSURE $\frac{1}{500} \pm$

SOURCE OF ELEVATION Well No. 1 this farm (Harry Willis)

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: Rudder Oil & Gas Co., N. Rudder, Agt.
 Address: Box 2116, Parkersburg, W. Va.
 Farm: Harry Willis
 Tract: 1 Acres 30 Lease No. _____
 Well (Farm) No. 2 Serial No. _____
 Elevation (Spirit Level) 1054
 Quadrangle Vadis NW
 County Doddridge District New Milton
 Engineer Parker E. Peters
 Engineer's Registration No. 485
 File No. _____ Drawing No. _____
 Date June 5, 1963 Scale 1" = 20 P.

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

WELL LOCATION MAP

FILE NO. D00-994-P

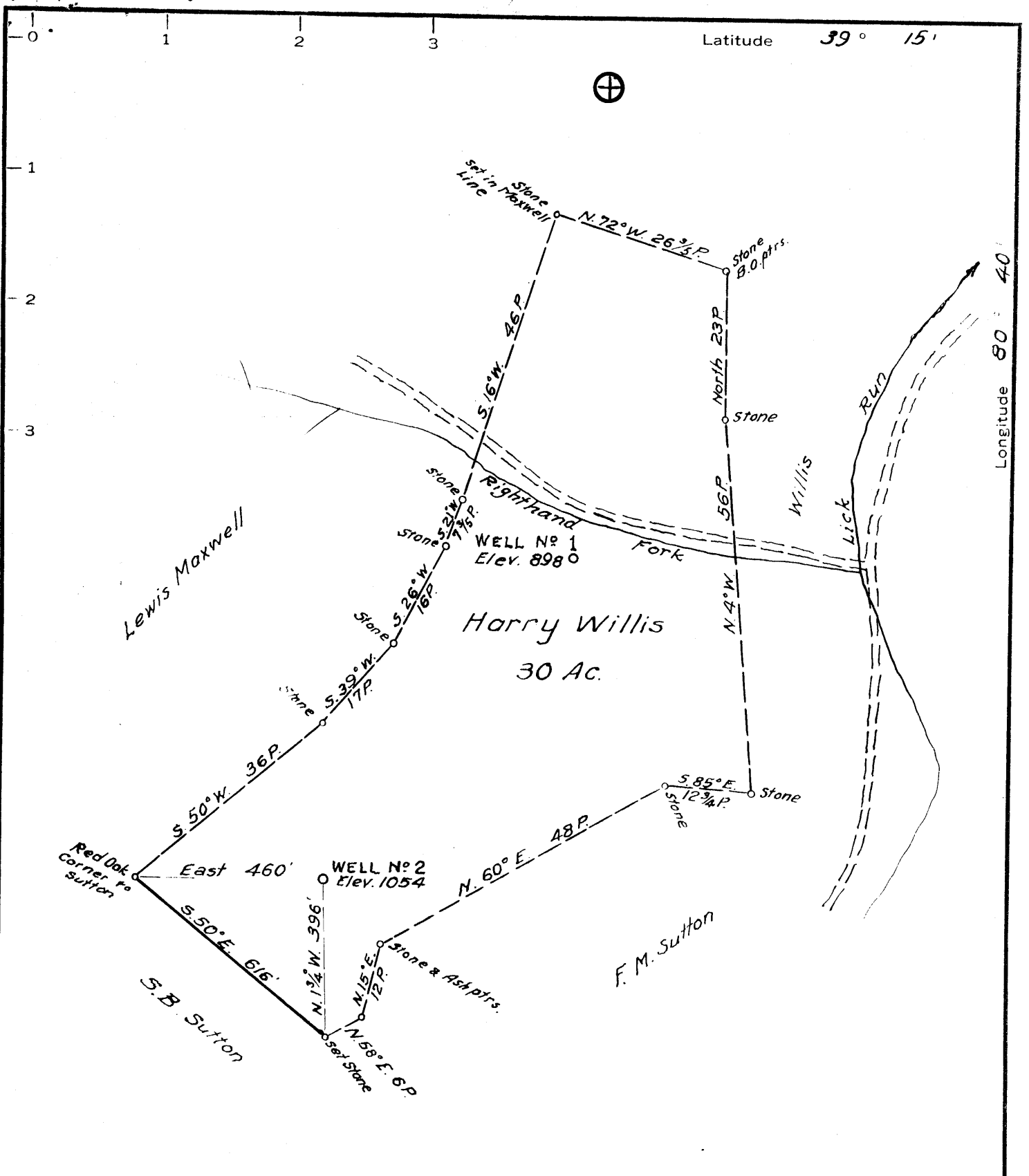
PLUGGING CANCELED

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.

47-017

OCT 12 1976



MINIMUM ERROR OF CLOSURE $1/500 \pm$

SOURCE OF ELEVATION Well No. 1 this farm (Harry Willis)

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: Rodder Oil & Gas Co., N. Rodder, Agt.
 Address: P.O. Box 2110, Parkersburg, W. Va.
 Farm: Harry Willis
 Tract: 1 Acres 30 Lease No. _____
 Well (Farm) No.: 2 Serial No. _____
 Elevation (Spirit Level): 1054
 Quadrangle: Vadis NW
 County: Doddridge District: New Milton
 Engineer: Parker E. Peters
 Engineer's Registration No.: 485
 File No. _____ Drawing No. _____
 Date: June 5, 1963 Scale: 1" = 20 P.

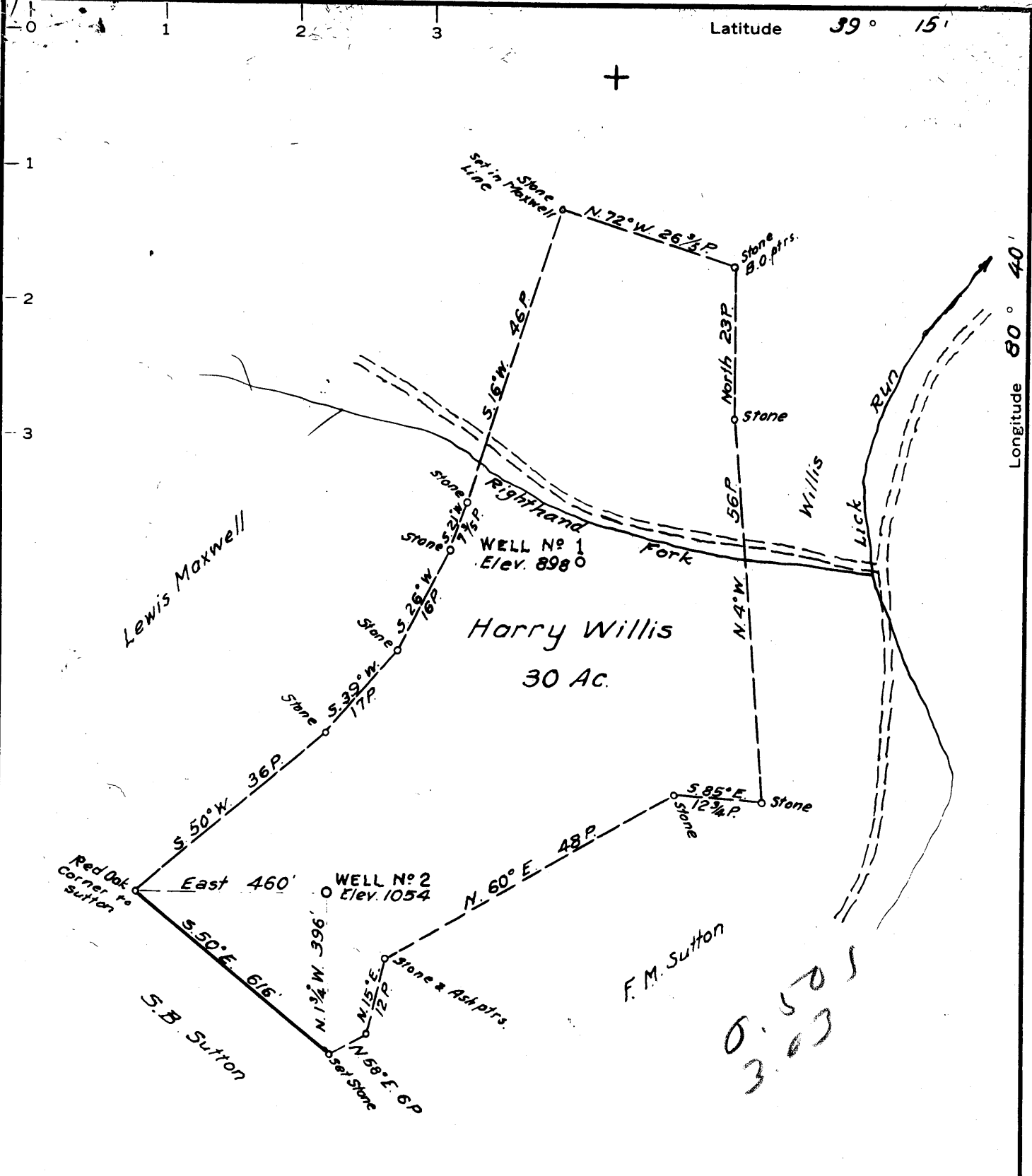
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. Doo-994-P

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47-017



MINIMUM ERROR OF CLOSURE $\frac{1}{500} \pm$
 SOURCE OF ELEVATION Well No. 1 this farm (Harry Willis)

New Location X
 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 Rudder Oil & Gas Co., N. Rudder, Agt.
 Address Box 2118, Parkersburg, W. Va.
 Farm Harry Willis
 Tract... 1 Acres 30 Lease No. _____
 Well Farm No. 2 Serial No. _____
 Elevation (Spirit Level) 1054
 Quadrangle Vadis NW
 County Doddridge District New Milton
 Engineer Parker E. Peters
 Engineer's Registration No. 485
 File No. _____ Drawing No. _____
 Date June 5, 1963 Scale 1" = 20 P.

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

WELL LOCATION MAP
 FILE NO. Dod-994

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle VADIS

Permit No. DOD-994

WELL RECORD

Oil or Gas Well GAS
(KIND)

Company RUDDER OIL & GAS COMPANY
Address BOX 2118, PARKERSBURG, W. VA.
Farm HARRY WILLIS Acres 30
Location (waters) LICK RUN
Well No. 2 Elev. 1054'
District NEW MILTON County DODDRIDGE
The surface of tract is owned in fee by MRS. HARRY WILLIS
Address NEW MILTON P.O.
Mineral rights are owned by MRS. HARRY WILLIS et al
Address NEW MILTON P.O.
Drilling commenced JUNE 4, 1963
Drilling completed JULY 3, 1963
Date Shot _____ From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume 40,000 Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 CONDUCTOR		10'	
10	160'	0	Size of
8 1/4	900'	260'	
6 3/8			Depth set
5 3/16			
4 1/2		1976'	Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 4 1/2 SIZE 1976' No. Ft. 7/3/63 Date
LAWSON CMTG CO., 80 Sks Cem, 6 Sks Gel

COAL WAS ENCOUNTERED AT NONE FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

WELL FRACTURED HALLIBURTON COMPANY - 7/8/63 - 42,000 gal treated water, 47,000# 20/40 sand.

RESULT AFTER TREATMENT 750M Gas

ROCK PRESSURE AFTER TREATMENT 350# in 24 hrs

Fresh Water _____ Feet _____ Salt Water _____ Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Red rock	Red	Soft	0	30			
Lime Sand	grey	Hard	30	40			
Slate		Hard	40	50			
Sand		Soft	50	64			
Slate		Med	64	90			
Sand		Soft	90	105			
Slate		Hard	105	132			
Red rock	red	Soft	132	172			
Slate		Soft	172	177			
Lime		Soft	177	198			
Red rock	Red	Hard	198	214			
Sand		Soft	214	241			
Red rock	Red	Med	241	257			
Slate & Shells		Soft	257	290			Broken
Sand		Med	290	298			
Slate		Med	298	323			
Red rock		Soft	323	370			
Slate		Soft	370	395			
Slate	Black	Soft	395	418			
Lime		Soft	418	445			
Slate		Hard	445	464			
Sand		Soft	464	502			Very Hard
Slate & Shells		Hard	502	517			
Lime		Med	517	555			
Red rock	Red	Hard	555	568			
		Soft	568	605			

(over)



Formation	Color	Hard or Soft	Top 8	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate		Soft	605	632			
Red rock		Soft	632	647			
Slate		Soft	647	668			
Red rock		Soft	668	691			
Slate		Soft	691	715			
Red rock		Soft	715	725			
Slate		Med	725	795			
Red rock		Soft	795	828			Gritty
Slate		Soft	828	1065			
Sand		Hard	1065	1125			
Slate		Soft	1125	1135			
Sand		Med	1135	1192			
Slate	Black	Soft	1192	1198			
Sand		Med	1198	1225			
Slate		Soft	1225	1268			
Sand		Soft	1268	1375			
Slate		Soft	1375	1505			
Sand		Hard	1505	1522			
Slate		Soft	1522	1529			
Sand		Hard	1529	1540			
Slate		Soft	1540	1549			
Sand		Med	1549	1576			
Slate		Soft	1576	1620			
Lime		Hard	1620	1627			
Slate		Soft	1627	1665			
Lime		Hard	1665	1687			
Slate		Soft	1687	1692			
Lime		Hard	1692	1712			
Red rock		Soft	1712	1715			
Lime		Hard	1715	1727			
Slate		Soft	1727	1738			
Red rock		Soft	1738	1742			
Slate & Shells		Med	1742	1759			
Little Lime		Hard	1759	1773			
Pencil Cave		Soft	1773	1780			
Big Lime		Hard	1780	1887			
Sand		Hard	1887	1942			
Slate		Soft	1942	1976	Show of gas at 1922'		

Date JULY 11, 19 63

APPROVED RUDDER OIL & GAS COMPANY, Owner

By Neal Rudder
ENGINEER (Title)