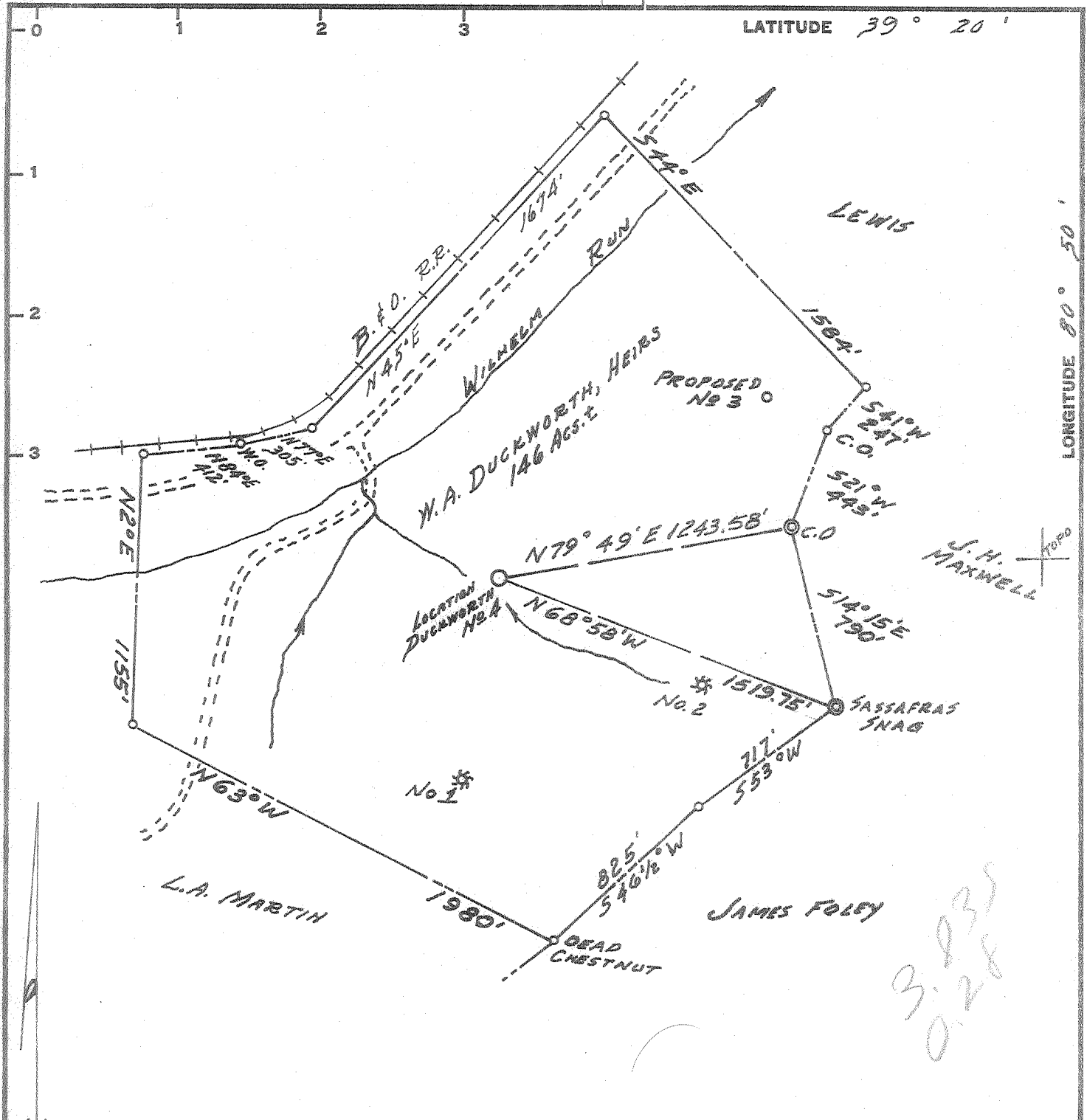


2-9-66-103



"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."

Paul S. Dean

New Location Drill Deeper Abandonment 10-25-68
 B.M. REF. = ROAD INTERSECTION AT CLAYLICK SCHOOL 1 1/4 MI. S.W. of Loc.
 MINIMUM ERROR OF CLOSURE 1/2,000

Company Glenn, Inc
H. G. Clark, Jr.
 Address Box 427, Charleston, 22, W.Va.
 Farm W.A. Duckworth Heirs
 Tract 1 Acres 146 ± Lease No. _____
 Well (Farm) No. Four Serial No. _____
 Elevation (Spirit Level) 954
 Quadrangle WEST UNION 50
 County DODDRIDGE District CENTRAL
 Engineer Paul S. Dean
 Engineer's Registration No. 1856
 File No. 136-7-44 Drawing No. 66-2
 Date JAN. 17, 1966 Scale 1" = 600'

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

WELL LOCATION MAP
 FILE NO. DOD-1351-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.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 5

*Miss Phillips
for page 7
4-7-66
MS*

Rotary
Spudder
Cable Tools
Storage

Quadrangle West Union

WELL RECORD

Permit No. DOD 1351

Oil or Gas Well Gas-Oil
(KIND)

Company N. C. Clark et al
Address Box 427 Charleston, W. Va.
Farm W. A. Duckworth Acres 146
Location (waters) Wilhelm Creek
Well No. 4 Elev. 954
District Central County Doddridge
The surface of tract is owned in fee by W. A. Duckworth
Central Station Address W. Va.
Mineral rights are owned by Same
Address _____
Drilling commenced 2-17-66
Drilling completed 3-22-66
Date Shot _____ From _____ To _____
With _____
Open Flow /10ths Water in Gas show Inch
/10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure None taken 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	12'	12'	
10	328	Pulled	Size of
8 1/4	1014	Pulled	
6 1/2			Depth set
5 1/2	2047		
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 5 1/2 SIZE 2047 No. Ft. 3230 Date 66

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

WELL FRACTURED from 1950 to 2012, with 700 bbls. water and 38,000 lbs of sand.

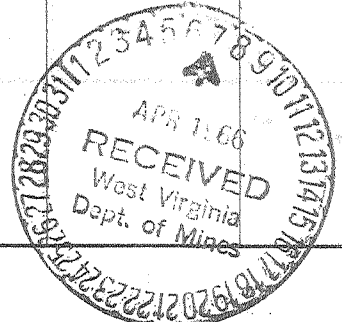
RESULT AFTER TREATMENT 350,000 gas and 25 bbl. oil = *Big Injun*

ROCK PRESSURE AFTER TREATMENT _____

Fresh Water at 45' Feet Salt Water 454 to 468 Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay	Yellow	Soft	0	5			
Sand	White	Hard	5	33			
Red Rock	Red	Soft	33	72	Fresh water	45	Hole full
SlateShell	Grey	Soft	72	157			
Sand	White	Hard	157	172			
Red Rock	Red	Soft	172	328			
SlateShell	Grey	Soft	328	449			
Sand	White	Hard	449	534	Salt Water	454-468	3 b. an hr.
Lime sand	White	Hard	534	725			
Slate Rock	Grey Red	Soft	725	792			
Slate	Grey	Soft	792	804			
Red Rock	Red	Soft	804	834			
Slateshell	Grey	Soft	834	920			
Red Rock	Red	Soft	920	1000			
SandyLime	White	Hard	1000	1055			
Sand	White	Hard	1055	1089			
Slate	Grey	Soft	1089	1122			
Sand	White	Hard	1122	1152			
SlateShell	Grey	Soft	1152	1230			
Sand	White	Hard	1230	1297			
LimeSandy	Grey	Hard	1297	1340			
Sand	White	Hard	1340	1379			
LimeShells	Grey	Soft	1379	1410			
Sand	White	Hard	1410	1495			
Lime sand	White	Hard	1495	1616			
Sand	White	Hard	1616	1692			
Sand Broke	White	Hard	1692	1710			
Lime	White	Hard	1710	1734			
Sand	White	Hard	1734	1744			

(over)



Formation	Color	Hard or Soft	Top ^S	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime Shells	White	Hard	1744	1780			
Red Lime	Red	Soft	1780	1820			
Little Lime	Reddish	Soft	1820	1848			
Sand <i>(Dark Muddy)</i>	White	Hard	1848	1889			
Big Lime	White	Hard	1889	1946			
Injun Sand	White	Hard	1946	2028	Show Gas	1961-66	16/10 water through!"
Slate	Grey	Soft	2028	2061	Oil	2002-13	Show

Date April 5, 1966, 19

APPROVED N. G. Clark et al, Owner

By N. G. Clark Pres
(Title)