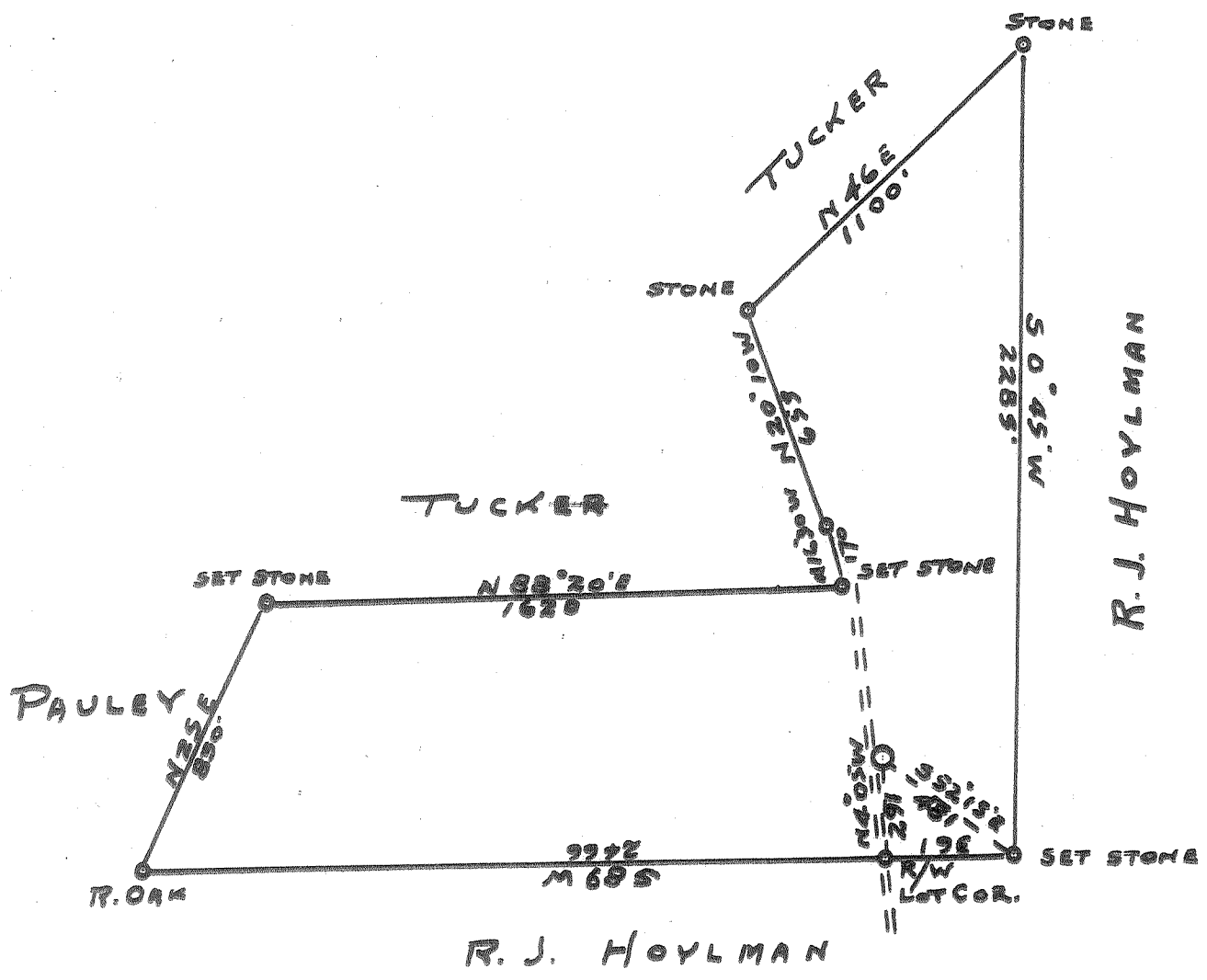


Latitude 38° 30'

Longitude 81° 50'



1. 81 S.
 2. 88 W.

2 NC (J-4)

New Location
 Drill Deeper
 Abandonment

Company V. C. SMITH, II
 Address CHARLESTON, W. VA.
 Farm CASSEL WELCH
 Tract _____ Acres 55 Lease No. _____
 Well (Farm) No. _____ Serial No. _____
 Elevation (Spirit Level) 743
 Quadrangle ST. ALBANS - NC
 County PITNAM District SCOTT
 Engineer JOHN GALPIN
 Engineer's Registration No. 875
 File No. _____ Drawing No. _____
 Date 4/17/59 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. PUT-665-D

+ 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.

No Samples 6-6 2/2 Deep Well



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle St. Albans

WELL RECORD

Permit No. Put. 665-D

Oil or Gas Well Gas
(KIND)

Company V. Courtlandt Smith, II
Address Charleston, W. Va.
Farm Cassel Welch Acres 55
Location (waters) Morrison Fork
Well No. 1 Elev. 743
District Scott County Putnam
The surface of tract is owned in fee by Cassel Welch
Address St. Albans, W. Va.
Mineral rights are owned by Cassel Welch
Address St. Albans, W. Va.
Drilling commenced 4/29/59
Drilling completed 6/23/59
Date Shot 7/30/59 From 3380' To 4466'
With 5500 Lbs. NH₄ NO₃ 800 Lbs. 80% Gel
Open Flow 4 /10ths Water in 2 Inch
 /10ths Merc. in Inch
Volume 75,000 Cu. Ft.
Rock Pressure Not Taken lbs. hrs.
Oil bbls., 1st 24 hrs.
WELL ACIDIZED Not Acidized
WELL FRACTURED Not Fractured

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer <u>None</u>
16			
13			
10			Size of <u> </u>
8 1/4			
6 3/4			Depth set <u> </u>
5 3/16			
3			Perf. top <u> </u>
2			Perf. bottom <u> </u>
Liners Used			Perf. top <u> </u>
			Perf. bottom <u> </u>

CASING CEMENTED SIZE No. Ft. Date
COAL WAS ENCOUNTERED AT FEET INCHES
 FEET INCHES FEET INCHES
 FEET INCHES FEET INCHES

RESULT AFTER TREATMENT
ROCK PRESSURE AFTER TREATMENT
Fresh Water Feet Salt Water Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Drill Deeper from 2206							
Berea Grit	Gray	Hard	2182	2206			Show of Gas at
Slate & Shells	Gray	Soft	2206	3368			3432 - 3435
Brown Shale	Brown	Soft	3368	3474			
Slate & Shells	Gray	Soft	3474	3561			Show of Gas at
Brown Shale	Brown	Soft	3561	3803			3675
Slate & Shells	Gray	Soft	3803	4170			
Marc. Shale	Brown	Soft	4170	4344			
Cornif. Lime	Gray	Hard	4344	4442			4/10 in 1"
Oriskany Sand		Very Hard & fine grain	4442	4451			
Cornif. Lime	Gray	Hard	4451	4468			
Dark Lime			4468				
				4344	4442	4451	
				743	743	743	
				3601	3699	3708	

Shot