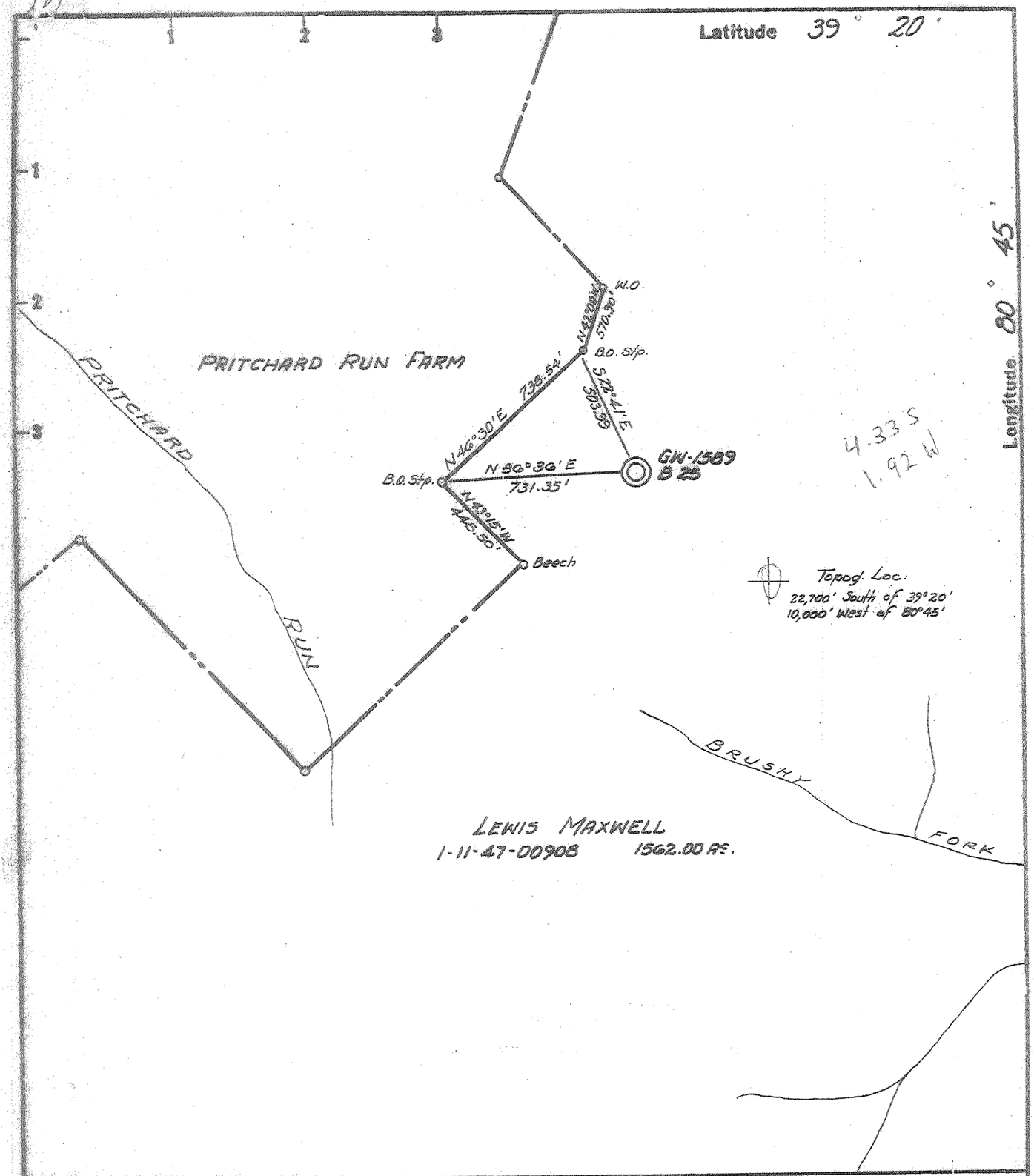


Fracture
Before 6/5/27 ☐
New Location ☑
Drill Deeper ☐
Redrill ☐
Abandonment ☐

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 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.

The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations. PROVEN ELEVATION USGS 1352

Company Cities Service Oil Company
Address Box 873 Charleston, W. Va.
Farm Lewis Maxwell "B"
Tract _____ Acres 1562 Lease No. I-11-47-00908
Well (Farm) No. B-25 Serial No. GW-1589
Elevation (Spirit Level) 1247.21
Quadrangle West Union - SE
County Doddridge District West Union
Engineer Wendell S. Moore
Engineer's Registration No. 2113
File No. _____ Drawing No. W-11-GG
Date 25 July GG Scale 1" = 500'

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

WELL LOCATION MAP

FILE NO. DOD-1398

+ 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.

6-6 099

Form OG-10

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Rotary ☐
Spudder ☐
Cable Tools ☒
Storage ☐

Quadrangle West Union
Permit No. Dod-1398
Oil or Gas Well Gas (KIND)

Company Cities Service Oil Company
Address Box 873, Charleston, W. Va. 25323
Farm Lewis Maxwell Acres 1562-
Location (waters) Pritchard Run
Well No. "B" #25, GW-1589 Elev. 1247.21
District West Union County Doddridge
The surface of tract is owned in fee by G. A. Pierce, et ux
The Strand and Norton St. Address Oxford, Md.
Mineral rights are owned by Grace M. Gaylord, et al
410 Kemmerer Rd. Address State College, Pa
Drilling commenced 8-17-66
Drilling completed 9-19-66
Date Shot not shot From To
With
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume show after perfrating Cu. Ft.
Rock Pressure lbs. hrs.
Oil bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) see attached sheet
WELL FRACTURED (DETAILS) see attached sheet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13 3/8" 48#	19'	19'	none
10 3/4" 32#	303'	pulled	Size of
8¼" 24#	1215'	1197'	
6⅝			Depth set
5 3/16			
4½" 9.5#	2217'	2217'	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED SIZE No. Ft. Date
Amount of cement used (bags) see attached sheet
Name of Service Co.
COAL WAS ENCOUNTERED AT none FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 722 MCF (Big Injun)
ROCK PRESSURE AFTER TREATMENT 168 HOURS 266
Fresh Water Feet Salt Water Feet
Producing Sand Big Injun Depth 2075-2158' (per electric logs)

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay			0	10			
Sand			10	43			
Slate and Shells			43	70			
Red Rock			70	93			
Lime			93	120			
Slate and Red Rock			120	180			
Slate			180	200			
Lime			200	240			
Sand			240	250			
Red Rock & Slate			250	333			
Sand			333	365			
Slate			365	375			
Red Rock			375	380			
Lime			380	410			
Slate and Shells			410	448			
Lime			448	465			
Pink Rock			465	530			
Lime			530	573			
Sand			573	603			
Slate and Shells			603	680			
Lime			680	725			
Gritty Lime			725	805			
Pink Rock			805	895			
Lime			895	935			
Pink Rock			935	945			
Lime			945	985			

RECEIVED
NOV 1 '66
West Virginia
Dept. of Mines

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate and Shells				[illegible]			
Sand			[illegible]	1115			
Red Rock			1075	1230			
[illegible] Lime			[illegible]	[illegible]			
Sand			1200	[illegible]			
[illegible]			[illegible]	1313			
[illegible]			[illegible]	1340	Oil	1138?	
Slate and Shells			[illegible]	[illegible]			
[illegible]			1260	[illegible]			
Slate and Shells			[illegible]	[illegible]			
[illegible]			[illegible]	[illegible]			
[illegible]			1380	1385			
[illegible]			[illegible]	[illegible]			
[illegible] and Shells			[illegible]	[illegible]			
[illegible] Lime			1384	1391			
Sand			1391	[illegible]			
[illegible]			[illegible]	[illegible]			
[illegible]			[illegible]	1475			
Slate and Shells			[illegible]	1518			
Sand			[illegible]	[illegible]			
Broken Lime			[illegible]	1675			
Slate and Shells			1675	[illegible]			
[illegible] Sand			[illegible]	1830	Gas	1813-22'	show-depleted
Slate and Shells			1830	[illegible]			
Blue Monday Sand			[illegible]	1951			
Lime - White and hard			1951	1980			
Sand			1980	2010	Oil	1990'	show
Big Lime			2010	2030			
Big Injun Sand			[illegible]	[illegible]			
[illegible] Break			[illegible]	[illegible]			
[illegible] Sand			[illegible]	2158	Gas from Big Injun gauged 371 MCF - Show of gas only after fracturing		
[illegible]			[illegible]	2200			

Total depth .... 2208' Drillers' Meas.
2201' Schlumberger's Meas.

Electric Logs show:

Blue Monday Sand	1980	2012
Big Lime	2015	2075
Big Injun	2075	2158

?-19-66 Ran Schlumberger Logs: Gamma Ray, Caliper, Density, Temperature & Induction.

?-26-66 Ran Cement Bond Log, Gamma Ray Correlation Log and Collar Locator Log.

See attached sheet for additional information

Date ____________________

APPROVED ____________________ Owner

By ____________________
(Title)

Formation	Color	Hard or Soft	Top 6A	Bottom	Oil, Gas or Water	Depth Found	Remarks

Additional information on Maxwell "B" #25

Casing Record

8-17-66 Set 13-3/8" casing at 19' - did not cement.

8-22-66 Ran and set 10-3/4' casing at 302' - did not cement. Pulled later.

9-1-66 Set 8-5/8" 24# J-55 casing, Grade B at 1,205'. Did not cement. Pulled 18' later.

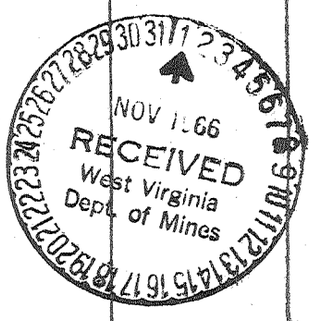
9-19-66 Set and cemented 4-1/2" 9.5# Grade A, J-55 casing at 2201' with 125 sacks of Pozmix with friction reducer. Pumped 100 bbls. gel ahead of cement. Float at 2197'. Centralizers at 2197', 2132' and 2065'.

9-26-66 Perforated Big Injun 2097-2100', 2131-34', 2139-41'and 2151-55' with 2 holes per foot. Total of 24 holes. Show of gas after perforating.

9-26-66 Fractured the Big Injun Sand

Pumped 500 gallons mud acid and 1,500 gallons regular acid. Maximum pressure 2,500#. Pressure broke to 1150#. Dropped 12 perf balls after pumping 1,000 gallons of acid. Could not tell when perf balls hit. Fraced Big Injun with 45,000# 20-40 sand, 28,000 gallons gelled water with fluid loss material and 35 gallons Morflo. Maximum treating pressure 2,600#. Average treating pressure 2,550#. Average injection rate 32.9 bbls/minute. Used 92,000' of nitrogen during treatment. Used 765 bbls. of fluid. Did not use perf balls during fracturing treatment. Pressure too high - Radio active beads put in during frac treatment.

9-27-66 Final open flow 722 MCF (Big Injun) after blowing 24-1/2 hours.



Date October 28, 1966

APPROVED Cities Service Oil Company, Owner

By L. D. Todd, District Supt
(Title)