

New Location   
 Drill Deeper   
 Abandonment   
 Dated 4-16-74

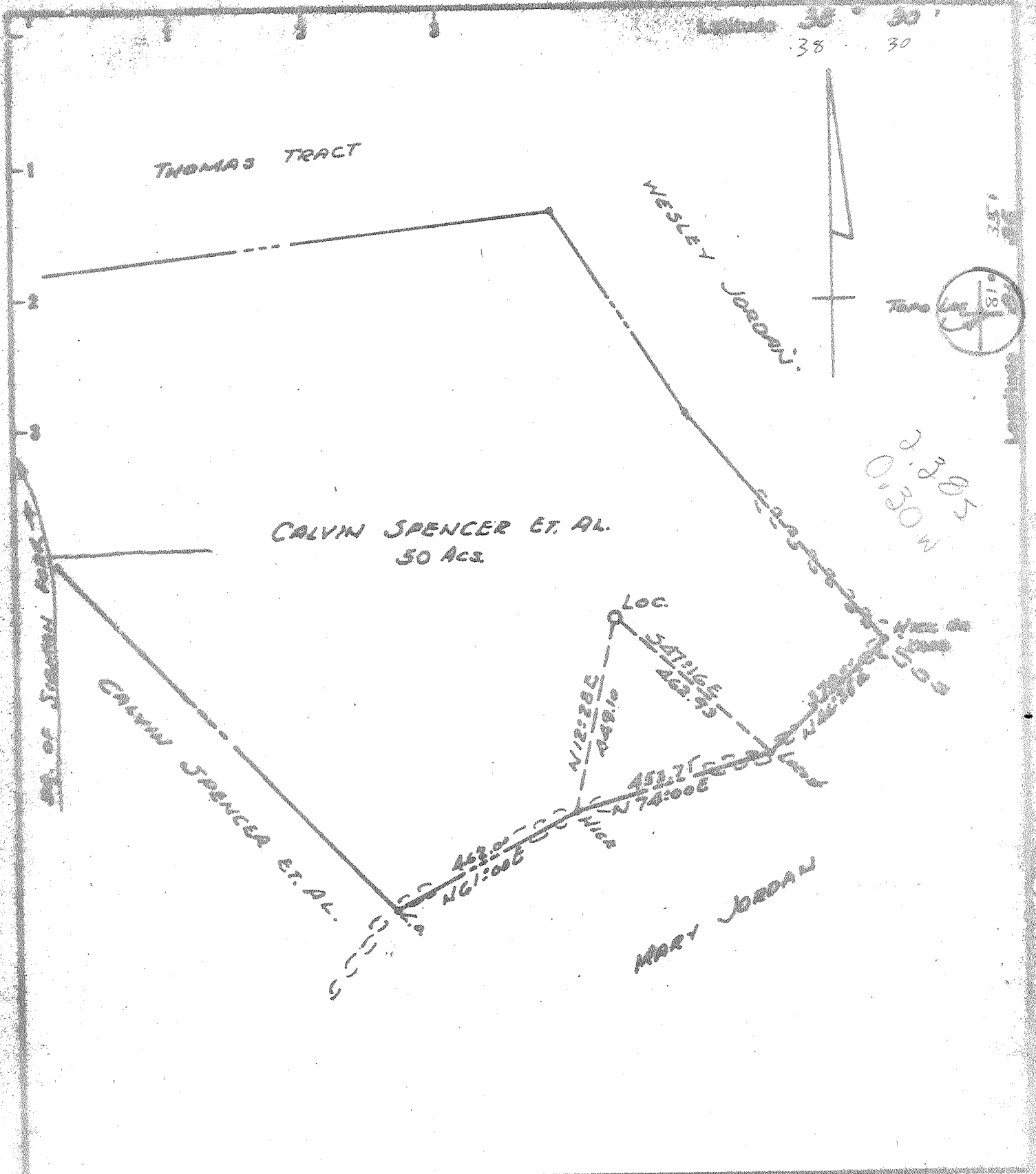
Minimum Error of Closure 1 in 200  
 Source of Elevation Elev. 1026' Road Intersection 300' South West of Loc.  
 "I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company A + S Gas + Oil, Inc.  
PATRICK PETROLEUM  
2702 DORSET DRIVE, CHAS.  
 Address ARMED GUARD, CHARLESTON, W.VA.  
 Farm CALVIN SPENCER ET. AL. 25302  
 Tract \_\_\_\_\_ Acres 50 Lease No. \_\_\_\_\_  
 Well (Farm) No. 1 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1021.86  
 Quadrangle CHARLESTON NC  
 County KANAWHA District POCA  
 Engineer N. G. Peyton  
 Engineer's Registration No. 1832  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date 10-11-69 Scale 1" = 300'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
**WELL LOCATION MAP**  
 FILE NO. Jan-2439-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. 47-039

*Deep Well*



New Location   
 Built Deep   
 Abandonment

Minimum Error of Closure 1 in 200  
 Source of Elevation Elev. 1026' Road Intersection with South  
of Loc.

"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 PATRICK PETROLEUM  
 Address Commerce Square, CHARLESTON, W.Va.  
 Farm CALVIN SPENCER ET. AL.  
 Tract \_\_\_\_\_ Acres 50 Lease No. \_\_\_\_\_  
 Well (Farm) No. 1 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1021.86  
 Quadrangle CHARLESTON NC  
 County KANAWHA District POCA  
 Engineer H. G. Saylor  
 Engineer's Registration No. 1832  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date 10-11-69 Scale 1" = 300'

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

**WELL LOCATION MAP**  
 FILE NO. 720-2539

+ 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 Cooper Creek 331 Deep well

NOV 3 1969

2-35



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

- Rotary
- Spudder
- Cable Tools
- Storage

WELL RECORD

Oil or Gas Well **GAS** (KIND) E. NO. 11

Quadrangle **CHARLESTON**  
Permit No. **KAN-2439**

Company **PATRICK PETROLEUM COMPANY**  
Address **744 West Michigan Avenue Jackson, Michigan 49201**  
Farm **CALVIN SPENCER** Acres **50**  
Location (waters) **Coopers Creek**  
Well No. **One (1)** Elev. **1021.86**  
District **POCA** County **KANAWHA**  
The surface of tract is owned in fee by **Calvin Spencer, Charleston, W.Va.**  
Mineral rights are owned by **Same**  
Drilling commenced **10-23-69**  
Drilling completed **11-10-69**  
Date Shot From To

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16		90'	
13		90'	Size of
10			Depth set
2 1/2" 9-5/8	2022'	2022'	
2 1/8" 17#	5880'	5880'	
5 1/2" 17#			Perf. top
3	5918'	5918'	Perf. bottom
2-7/8			Perf. top
Liners Used			Perf. bottom

Open Flow /10ths Water in Inch  
/10ths Merc. in Inch  
Volume **10 Million** Cu. Ft.  
Rock Pressure **2104** lbs. hrs.  
Oil bbls., 1st 24 hrs.  
WELL ACIDIZED (DETAILS) **NO**  
WELL FRACTURED (DETAILS) **Yes - 30,000 sand**

Attach copy of cementing record.  
CASING CEMENTED SIZE No. Ft. Date  
Amount of cement used (bags)  
Name of Service Co.  
COAL WAS ENCOUNTERED AT / **No Coal** FEET INCHES  
FEET INCHES FEET INCHES  
FEET INCHES FEET INCHES  
**- 800 bbl. water, 1000 gal. acid**

RESULT AFTER TREATMENT (Initial open Flow or bbls.) **10,000 M.C.F.G.P.D.**  
ROCK PRESSURE AFTER TREATMENT HOURS  
Fresh Water Feet Salt Water Feet  
Producing Sand **Newburg 5916-18** Depth

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand			0	199			
White Sand			199	524			
Sand			524	840			
Sand			840	1126			
Sand			1126	1199			
Sand			1199	1347			
Sand			1347	1480			
Sand			1480	1522			
Salt Sand			1522	1578			
Salt Sand			1578	1668			
Sand			1668	1793			
Sand & Shale			1793	2056			
Sand & Shale			2056	2485			
Shale			2485	2899			
Sand & shale			2899	2983			
Sand			2983	3160			
Sand & Shale			3160	3680			
Sand			3680	3981			
Sand & Shale			3981	4160			
Shale			4160	4560			
Shale			4560	5078			
Lime			5078	5235			
Lime			5235	5414			
Lime			5414	5643			
Sand & shale			5643	5916			
Shale			5916	5918			
<u>Newburg</u>							
TOTAL DEPTH				5918			

**RECEIVED**  
FEB 16 1970  
OIL & GAS DIVISION  
DEPT. OF MINES  
5916 5916  
1022  
4894

MAR 0 2 1970  
MAR 0 2 1970