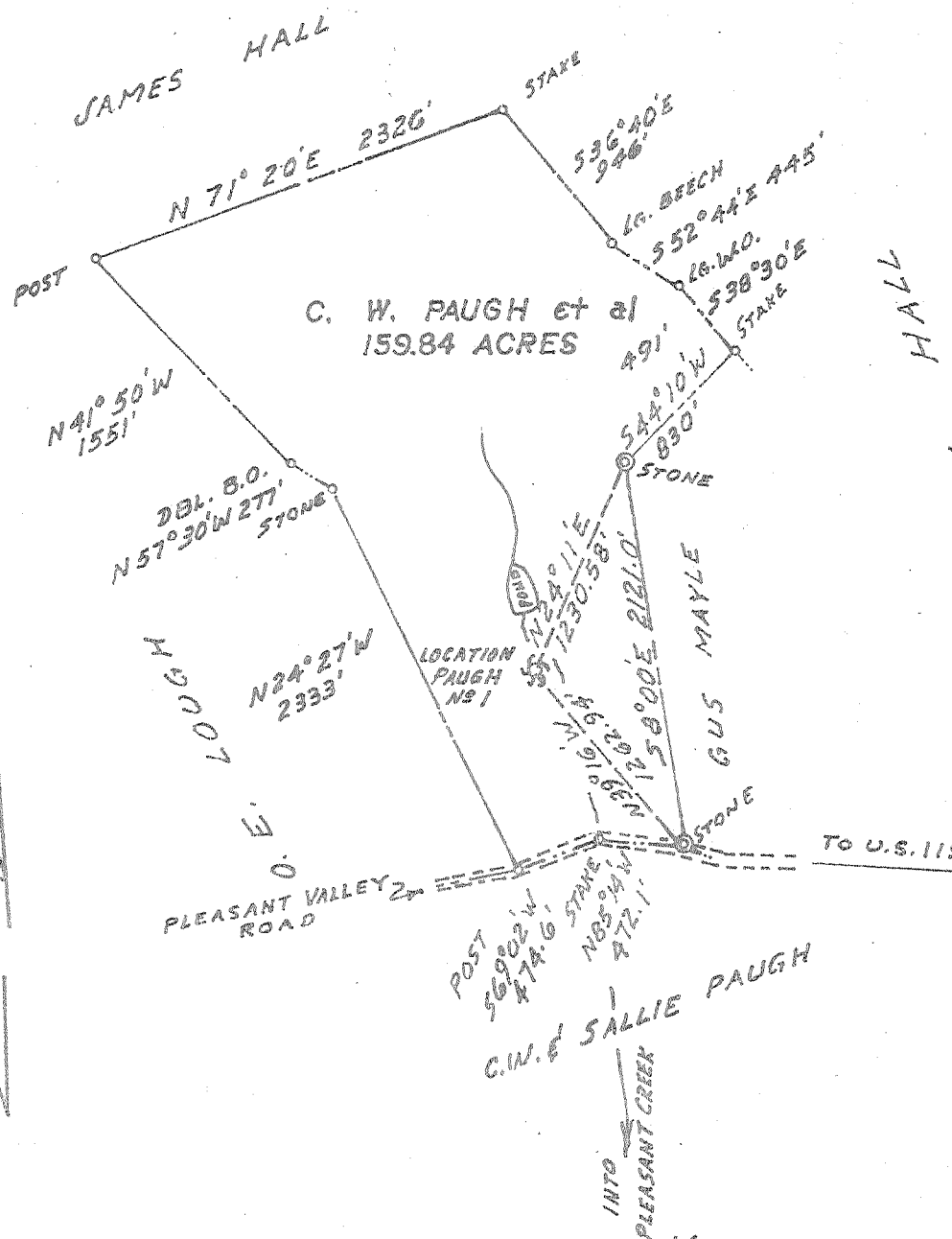




~~0.65 S~~ 0.61-S  
~~3.57 W~~ 3.52-W



Minimum Error of Closure 1/2000  
 Source of Elevation ROAD INTERSECTION AT U.S. 119  
EL. 1146

- Fracture.....
- 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.

Signed: Paul G. Dean

Map No. \_\_\_\_\_ Squares: N S E W

Company UNION DRILLING INC.  
 Address BOX 281 WASHINGTON, PA.  
 Farm C. W. PAUGH, et al  
 Tract 1 Acres 159.84 ACS. Lease No. A-8397  
 Well (Farm) No. 1 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1210  
 Quadrangle PHILIPPI NE  
 County BARBOUR District PLEASANT  
 Engineer PAUL G. DEAN  
 Engineer's Registration No. 1856  
 File No. 136-10-60 Drawing No. 70-41  
 Date MAY 13, 1970 Scale 1" = 1000'

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

**WELL LOCATION MAP**

FILE NO. BAR-532

+ 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 WELLS DIVISION

Rotary   
Spudder   
Cable Tools   
Storage

Quadrangle Philippi  
Permit No. Bar-532

WELL RECORD

Oil or Gas Well Gas  
(KIND)

Company Union Drilling, Inc.  
Address P.O. Box 347, Buckhannon, W. Va.  
Farm C. W. Paugh, et al Acres 159.84  
Location (waters) Pleasant Creek  
Well No. (1) (229-CH) Elev. 1210'  
District Pleasant County Barbour  
The surface of tract is owned in fee by C. W. Paugh  
RT. 1 Address Simpson, W. Va.  
Mineral rights are owned by Emerald Coal Co.,  
% Hillman Coal & Coke Address Pitt. Pa. 15219  
1900 Grant Bldg., 5/26/70  
Drilling commenced 6/3/70  
Drilling completed  
Date Shot From To

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13	12'	12'	
10			Size of
8 1/4	847	847	
6 3/4			Depth set
5 3/16			
4 1/2	1732	1732	Packer Set:
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

With  
Open Flow /10ths Water in Inch  
/10ths Merc. in Inch  
Volume 225,000 Cu. Ft.  
Rock Pressure 1050 lbs. 60 hrs.  
Oil bbls., 1st 24 hrs.  
WELL ACIDIZED (DETAILS)  
WELL FRACTURED (DETAILS) Not Fractured

Attach copy of cementing record.  
CASING CEMENTED SIZE No. Ft. Date  
Amount of cement used (bags)  
Name of Service Co.  
COAL WAS ENCOUNTERED AT 273 FEET 36 INCHES  
392 FEET 48 INCHES 504 FEET 60 INCHES  
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) No Treatment 225 MCF/GPD 225,000  
ROCK PRESSURE AFTER TREATMENT HOURS  
Fresh Water Feet Salt Water Feet  
Producing Sand Fifty Feet Depth Gas 1734-42

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay			0	7			
Sand & Shale			7	273			
Coal			273	276			
Sand & Shale			276	392			
Coal			392	396			
Sand & Shale			396	504			
Coal			504	509			
Sand & Shale			509	610			
Sand			610	660			
Sand & Shale			660	1239			
Big Lime			1239	1347			
Sand & Shale			1347	1600			
Sand			1600	1690			
Sand & Shale			1690	1698			
Red Rock			1698	3850			
Riley			3850	3875			
Shale			3875	4185			
Benson			4185	4205			
Sand			4205	4232			
Sand & Shale			4232	4331			

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DEC 10 1970