

OGIS 7.5' loc 15'
 38° 17' 30" 2.855 5.73 s
 81° 42' 30" .34W 260W
 pch

CERTIFICATE

"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."
 Minimum degree of accuracy is one part in 200

Signed *Ray Barney* R.P.E. No. 2024

NEW LOCATION
 RECONDITION
 DRILL DEEPER
 ABANDONMENT **7-9-68**

COMPANY ~~THE COURTLAND CO. ET AL.~~ **R.H. ARKINS**
 ADDRESS **HAMLIN, WVA.**
 FARM **THE COURTLAND CO., ET AL.**
 MAP **WV 12** ACRES **1156** LEASE NO.
 WELL (FARM NO.) **7 A** SERIAL NO. **760**
 ELEVATION (SPIRIT LEVEL) **1161.3**
 QUADRANGLE **CHARLESTON, S.W.**
 COUNTY **KANAWHA** DISTRICT **WASHINGTON**
 POINT OF PROVEN ELEVATION **Elevation taken from Well No. Kan. 1608**
 FILE NO. DRAWING NO.
 DATE **MAY 13, 1967** SCALE **1" = 1000'**

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. **KAN-2118-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

Rotary
Spudder
Cable Tools
Storage

WELL RECORD

Oil or Gas Well **GAS**
(KIND)

Well No. **KAN-2108**
R.H. ADKINS
Company **Bround & Courtney**
Address **P.O. BX 555, HAMLIN, W.VA. 25523**
Acres **1,156**
Brier Creek
Well No. **7-A** Elev. **1,161**
Washington County **Kanawha**
Address **Charleston, W.Va.**
surface of tract is owned in fee by **Bround & Courtney**
Address **Charleston, W.Va.**
General rights are owned by **Same**
Address
Drilling commenced **September 27, 1967**
Drilling completed **October 09, 1967**
Shot From To

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
20"	20	20	Kind of Packer
13 3/8	473	473	Size of
9 5/8	1,932'	1,932'	Depth set
8 1/4			Perf. top
6 3/4			Perf. bottom
5 3/16	5,651'	5,651'	Perf. top
4 1/2			Perf. bottom
3			
2			
Liners Used			

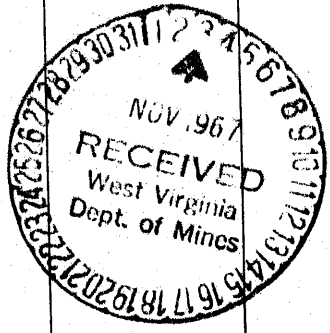
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume **22/10 W. 1" AF** Cu. Ft.
Rock Pressure **1,275** hrs. lbs.
NONE bbls., 1st 24 hrs.

Attach copy of cementing record.
CASING CEMENTED **4 1/2"** SIZE **5,651'** No. Ft. **10-11-67** Date
Amount of cement used (bags) **150**
Name of Service Co. **DOWELL**
COAL WAS ENCOUNTERED AT **325** FEET **36** INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

WELL FRACTURED (DETAILS) **900** bbls water, **22,000** lbs. **20/40** sand, **1,000** gallons HCL
pearhead.

RESULT AFTER TREATMENT (Initial open Flow or bbls.) **22/10 w 1" (.060 M.Cu.Ft.) 60,000**
ROCK PRESSURE AFTER TREATMENT **1,275** HOURS **48**
Fresh Water Feet Salt Water Feet
Producing Sand **Newburg** Depth **5,602 5,649**

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand & Shale			0	325			
Coal			325	328			
Sand & Shale			328	405			
Shale			405	458			
Sand & Shale			458	1,560			
Red Rock & Shale			1,560	1,600			
Lime			1,600	1,852			
Sand & Shale			1,852	1,950			
Shale			1,950	4,840			
Lime			4,840	5,612			
Sand			5,612	5,649			
Lime			5,649	5,665			
Total Depth Driller			5,665				
Total Depth Logger			5,658				
LOG DEPTH							
Top Corniferous Lime			4,832				
Oriskany Sand			4,930	4,941			
Newburg Sand			5,602	5,616			
* Testing Well at this date							11-01-67



NOV 15 1967