

NOTE: WELL TIES ARE 1970 MAGNETIC.

1/4 WALTER & ERNA ALLEN (WIFE)
 1/4 HELEN PAULIN & CHARLES (HUSBAND)
 1/4 MAMIE RICE & GEORGE (HUSBAND)
 1/8 CHESTER ALLEN, HUSBAND & WIFE
 1/8 LENA ALLEN

(NOTE: NOTICE TO CHARLES M. PAULIN
 RT. 1
 NORTH LIMA, OHIO

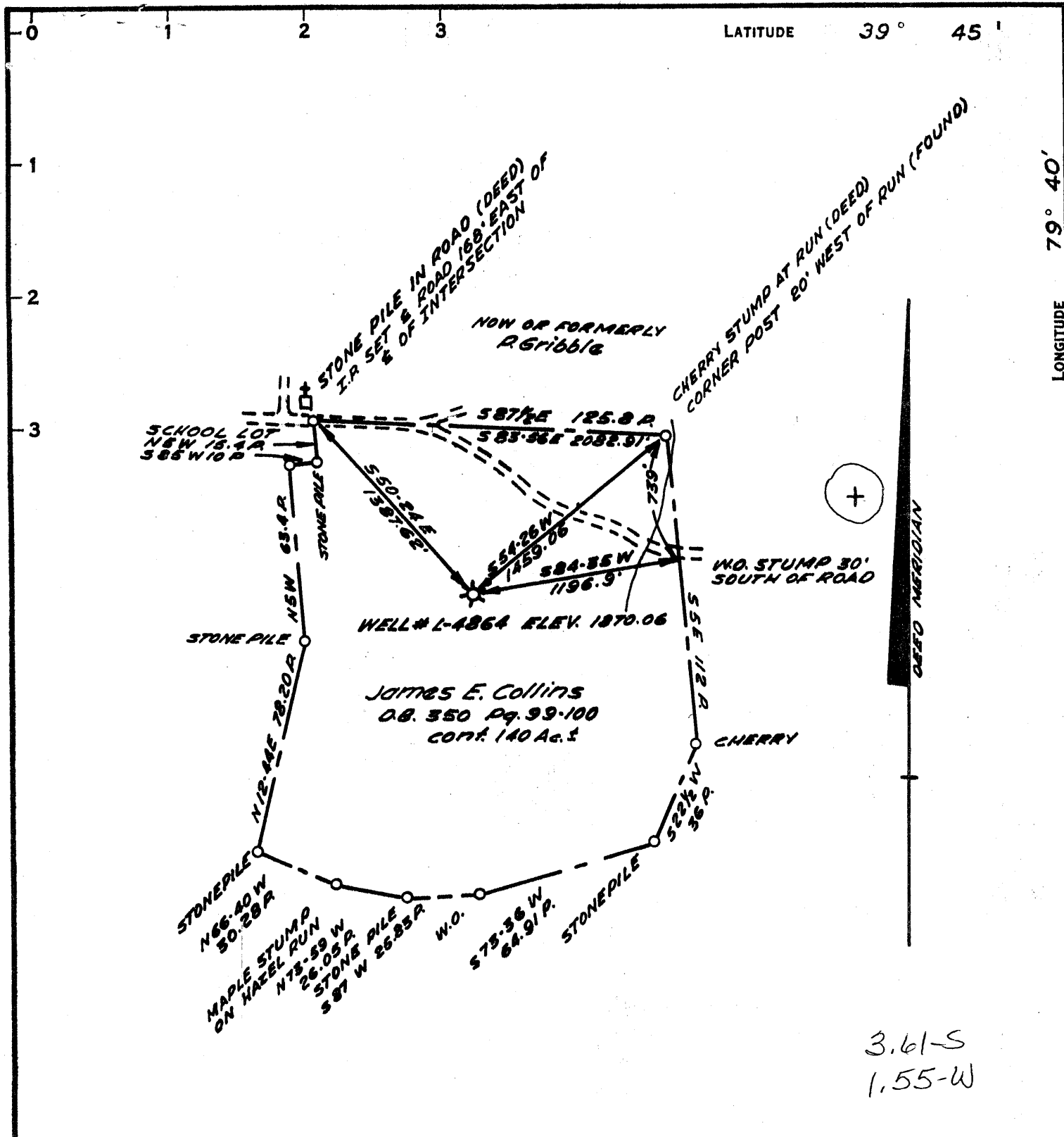
COAL OWNED BY

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT - *initials*

"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 500
 F.B. 1167 PG. 21-22
 Signed *John D. Cole* 19236-E PA. 1-5000

COMPANY THE MANUFACTURERS LIGHT & HEAT CO.
 ADDRESS 800 UNION TRUST BLDG. PITTSBURGH.
 FARM JAMES E. COLLINS TRACT # 1
 MAP P-29-7 ACRES 140 1/2 LEASE NO. 31312
 WELL (FARM) NO. 1 SERIAL NO. L-4864
 ELEVATION (SPIRIT LEVEL) 1870.06
 QUADRANGLE BRUCETON 15' NW
 COUNTY PRESTON DISTRICT GRANT
 POINT OF PROVEN ELEVATION U.S.G.S. B.M. Mt. GROVE CH.
ELEV. 1891.26
 FILE NO. _____ DRAWING NO. Y-28-784
 DATE 2 NOV. 70 SCALE 1"=500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
 WELL LOCATION MAP
 FILE NO. Pres-154-P
Plugged 11/21/71
 + 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.



NOTE: WELL TIES ARE 1970 MAGNETIC.

1/4 WALTER & ERNA ALLEN (WIFE)
1/4 HELEN PAULIN & CHARLES (HUSBAND)
1/4 MAMIE RICE & GEORGE (HUSBAND)
1/8 CHESTER ALLEN, HUSBAND & WIFE
1/8 LENA ALLEN

(NOTE: NOTICE TO CHARLES M. PAULIN RT. 1 NORTH LIMA, OHIO)

COAL OWNED BY

- NEW LOCATION
- RECONDITION
- 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."
Minimum degree of accuracy is one part in 500
F.B. 1167 PG. 21-22

Signed John D. Cole 18236-E PA.
1-5000

COMPANY THE MANUFACTURERS LIGHT & HEAT CO.
ADDRESS 800 UNION TRUST BLDG. PITTSBURGH.
FARM JAMES E. COLLINS TRACT #1
MAP P-29-7 ACRES 140 ± LEASE NO. 31312
WELL (FARM) NO. 1 SERIAL NO. L-4864
ELEVATION (SPIRIT LEVEL) 1870.06
QUADRANGLE BRUCEYTON 15' NW
COUNTY PRESTON DISTRICT GRANT
POINT OF PROVEN ELEVATION U.S.G.S. B.M. Mt. GROVE CH.
ELEV. 1891.26
FILE NO. _____ DRAWING NO. Y-28-784
DATE 2 NOV. 70 SCALE 1" = 800'

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON
WELL LOCATION MAP
FILE NO. Pres-154-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.



RECEIVED

JAN 11 1971

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

Rotary
Spudder
Cable Tools
Storage

Quadrangle Bruceton Mill
Permit No. PRES-154

WELL RECORD

Oil or Gas Well Gas *Dry*

Company Manufactures Light and Heat Company
Address 800 Union Trust Building
Farm J. E. & H. Collins Acres.....
Location (waters).....
Well No. 1-S-L-4864 Elev.....
District Grant County Preston
The surface of tract is owned in fee by J. E. & H. Collins
Bruceton Mills Address West Virginia
Mineral rights are owned by J. E. & H. Collins
Bruceton Mills Address West Virginia
Drilling commenced 12-13-70
Drilling completed 12-18-70
Date Shot From..... To.....
With.....

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packet.....
16			
13			
10			Size of.....
8 5/8	787	787	
6 3/4			Depth set.....
5 3/16			
4 1/2	3100	3100	
3			Perf. top.....
2			Perf. bottom.....
Liners Used			Perf. top.....
			Perf. bottom.....

Open Flow /10ths Water in..... Inch
/10ths Merc. in..... Inch
Volume slow Cu. Ft.
Rock Pressure..... lbs..... hrs.
Oil..... bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS).....

Attach copy of cementing record.
CASING CEMENTED 8-5/8 SIZE 787 No. Ft. 12-15-70 Date
Amount of cement used (bags) 150
Name of Service Co. Ready Cementing
COAL WAS ENCOUNTERED AT 79 FEET 72 INCHES
367 FEET 60 INCHES FEET INCHES
FEET INCHES FEET INCHES

WELL FRACTURED (DETAILS) 12-31-70 Halliburton-Balltown 15,950 water frac 15,000 sand
Elizabeth 25,420 gal water frac, 25,000% sand, Speechley 17,800 water frac 15,000 sand
RESULT AFTER TREATMENT (Initial open flow or bbls.) 13,693 - 2 hours
ROCK PRESSURE AFTER TREATMENT 185# HOURS 15 hours
Fresh Water..... Feet Salt Water..... Feet
Producing Sand Elizabeth, Speechley, Balltown Depth.....

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay			0	49			
Sand			49	79			
Coal			79	85			
Sand & Shale			85	350			
Sand			350	367			
Coal			367	372			
White Sand			372	490			
Shale			490	530			
Sand & Shale			530	797			
R.R. Sand & Shale			797	959			
White Sand			959	1005			
Sand			1005	1080			
Lime			1080	1270			
Sand			1270	1350			
Sandy Shale			1350	1675			
R.R.			1675	1705			
Sandy Shale			1705	1760			
R.R. Sand & Shale			1760	2310			
Shale			2310	2325			
Sand			2325	2368			
Sand & Shale			2368	3776			
					Total Depth	<u>Balltown</u>	