

COAL OWNED BY _____

NEW LOCATION...
 DRILL DEEPER...
 ABANDONMENT...

P-25-7

COMPANY THE MANUFACTURERS LIGHT & HEAT
 ADDRESS 800 UNION TRUST BLDG., PGH. PA.
 FARM E. N. VAUGHN
 TRACT _____ ACRES 80 LEASE No. 13022
 WELL (FARM) No. 3 SERIAL No. 4652
 ELEVATION (SPIRIT LEVEL) 1167'
 QUADRANGLE LITTLETON NC
 COUNTY MARSHALL DISTRICT LIBERTY
 ENGINEER Robert M. Heill
 ENGINEER'S REGISTRATION No. 381-E (J.F.)
 FILE No. _____ DRAWING No. Y-25-366
 DATE 12 JUNE 1961 SCALE 1" = 800'

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

WELL LOCATION MAP

FILE No. MAR3-418

+ 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 11

Quadrangle Littleton

Permit No. MARS-418

WELL RECORD

Storage

Oil or Gas Well GAS
(KIND)

Company The Manufacturers Lt. and Ht. Co.
Address 800 Union Trust Bldg., Pittsburgh 19, Pa.
Farm E. N. Vaughn Acres 80
Location (waters) _____
Well No. L-4652 Elev. 1159.7'
District Liberty County Marshall
The surface of tract is owned in fee by _____
Address _____

Mineral rights are owned by _____
Address _____

Drilling commenced October 13, 1961
Drilling completed November 8, 1961

Date Shot 11/8/61 From Big Injun To _____

With Pitot Tube
Open Flow 5 lbs _____ 4 Inch

Volume 6,360,000 _____ 10ths Merc. in _____ Inch

Rock Pressure 785 lbs. 24 hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

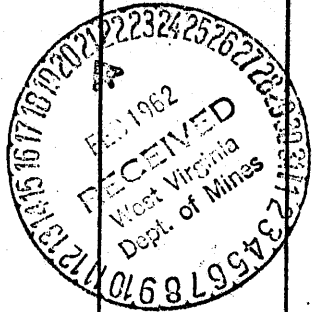
Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
18 3/8"	93'	93'	
10			Size of
8 1/2" 5/8"	913'	913'	
8 1/2" 1/2"	1994'	1994'	Depth set
5 3/16"			
8			Perf. top
8			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT 872 FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Schlumberger Well Survey							
✓ Pittsburgh Coal			872	878			
✓ Big Dunkard			1378	1445			
✓ Second Salt Sand			1768	1786			
✓ Maxton Sand			1877	1912	Gas in Maxton Sand		
✓ Big Lime			1970				
✓ Big Injun Sand				2159	(Not Drilled Through) Gas in Big Injun Sand)		
<p>Note: Maxton Sand Perforated by Schlumberger Well Surveying Corp. 11-8-61 from 1877 to 1912' with 140 Shots, Crack Jets.</p> <p>Well Drilled and Equipped as Follows: 17 1/2" Hole drilled to 107', Run 94' of 13-3/8" Casing Sm.Gr. H-48#, bottom bev. and cemented with 125 Bg. Cement, 17 Bg. Cal. Chloride and 1 Bg. Jel Flakes, 14.5# per gal. Good return of cement at surface. Drilled 12-1/4" Hole to 947', Run 920' of 8-5/8" Casing Sm.Gr. J-24# on A Float Shoe set at 913'. Cemented with 450 Bg. Cement, 17 Bg. Aquagel and 2 Bg. Hydrotan, 14.2# per gal., good return of cement at surface. Drilled 7-7/8" Hole to depth of 2159'. Run 2028' of 5-1/2" Casing Sm.Gr. J-17# on a Formation Packer Shoe set at 1996'. Cemented with 450 Bg. Cement and 2 Bg. Hydrotan, 14.3# per gal. Good return of cement at surface.</p>							
DRILLER'S LOG							
Surface Clays and Sand			0	95			
Sand & Shale			95	770			
Sandy Shale			770	772			
Coal			772	780			



Formation	Color	Hard or Soft	Top <i>12</i>	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sandy Shale			780	872			
Coal			872	880			
Sandy Shale			880	1060			
Sand & Shale			1060	1955			
Sand			1955	2172			

Date February 19, 19 62

APPROVED The Manufacturers Lt. and Ht. Co., Owner

By [Signature]
Land Agent (Title)