

COAL OWNED BY _____
 REDRILL FOR STORAGE _____
 NEW LOCATION...
 DRILL DEEPER...
 ABANDONMENT...

30134

0-25-10

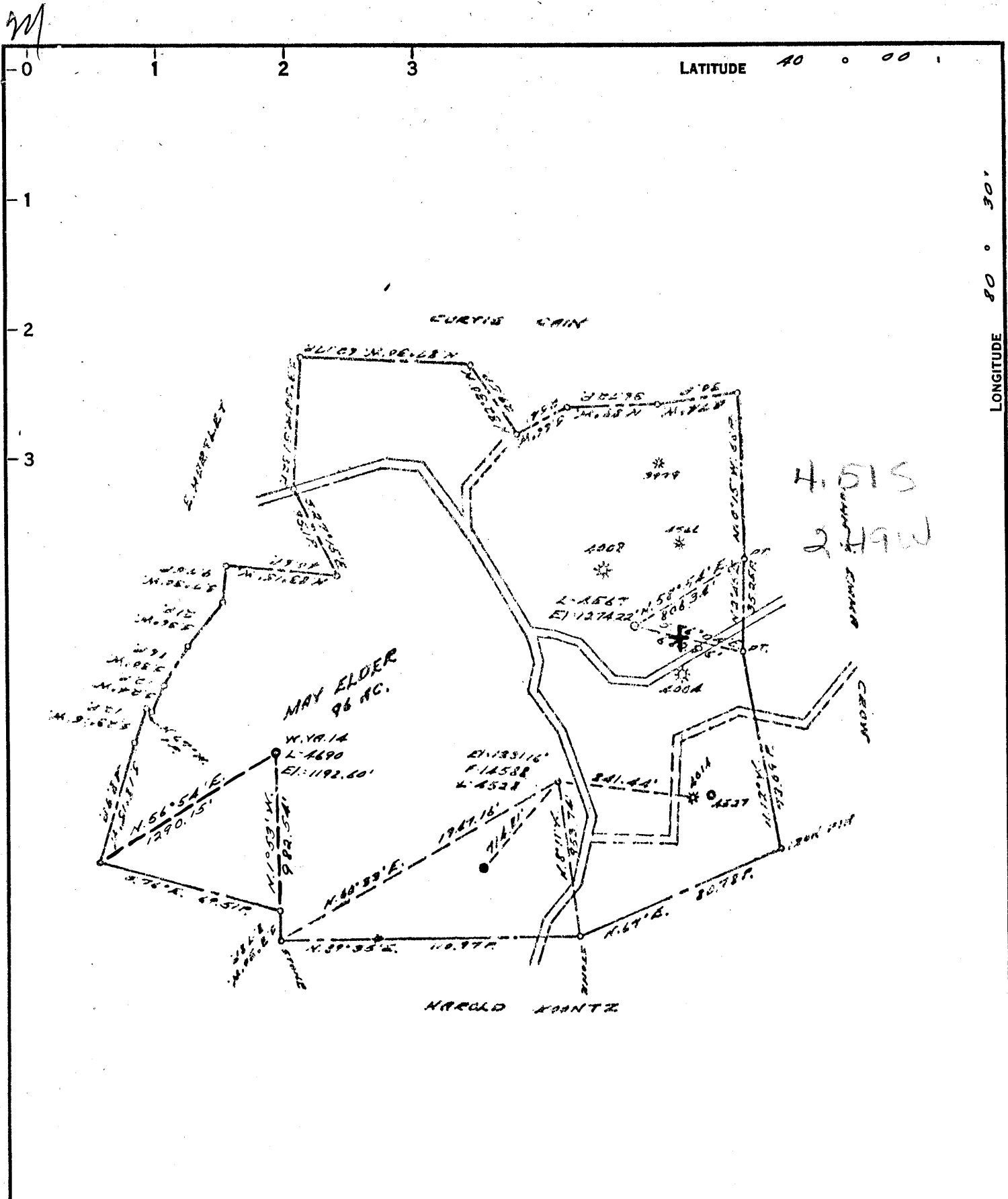
COMPANY THE MANUFACTURERS LIGHT & HEAT
 ADDRESS 800 UNION TRUST BLDG. PGH., PA.
 FARM MAY ELDER
 TRACT _____ ACRES 300 LEASE No. 19447
 WELL (FARM) No. 14 SERIAL No. 4690
 ELEVATION (SPIRIT LEVEL) 1192.60'
 QUADRANGLE CAMERON
 COUNTY MARSHALL DISTRICT WEBSTER
 ENGINEER A. C. Streater ST.
 ENGINEER'S REGISTRATION No. 9442
 FILE No. _____ DRAWING No. Y-25-493
 DATE 7 MAR. 62 SCALE 1" = 800'

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

WELL LOCATION MAP

FILE No. Mars-439-R

+ 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.



COAL OWNED BY _____
 REDRILL FOR STORAGE _____
 NEW LOCATION _____
 DRILL DEEPER _____
 ABANDONMENT _____

0-25-10

COMPANY THE MANUFACTURERS LIGHT & HEAT
 ADDRESS 800 UNION TRUST BLDG. DEN., PA.
 FARM MAY ELDER
 TRACT _____ ACRES 300 LEASE No. 19447
 WELL (FARM) No. 1A SERIAL No. 4690
 ELEVATION (SPIRIT LEVEL) 1192.60'
 QUADRANGLE CAMERON NE
 COUNTY MARSHALL DISTRICT WEBSTER
 ENGINEER AC Strator SI.
 ENGINEER'S REGISTRATION No. 9442
 FILE No. _____ DRAWING No. Y-25-493
 DATE 7 MAR. 62 SCALE 1" = 800'

STATE OF WEST VIRGINIA
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 OIL AND GAS DIVISION
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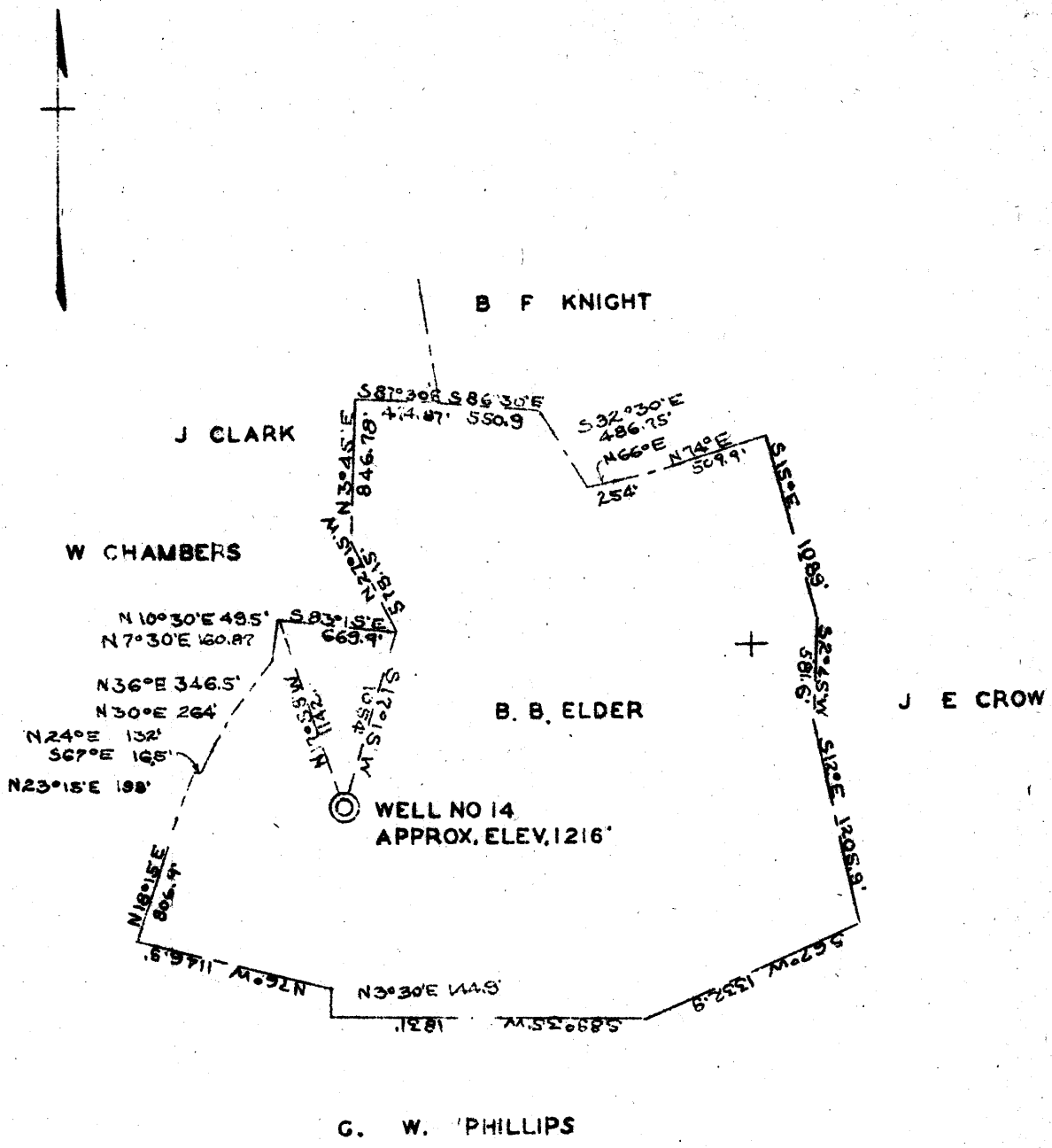
WELL LOCATION MAP

FILE No. MARS-439-R

+ 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 22



COAL OWNED BY MONOGALIA IMPROVEMENT CO.
COAL NOT OPERATED

4.63S
2.45W

215W
4.7P

SEP - 9 1940

New Location...
Drill Deeper...
Abandonment...

Company NATURAL GAS CO OF WEST VIRGINIA
Address 800 UNION TRUST BLDG. PITTSBURGH, PA.
Farm B. B. ELDER
Tract _____ Acres 350 Lease No. 375
Well (Farm) No. 8 Serial No. 14
Elevation (Spirit Level) 1218 ±
Quadrangle CAMERON N. E.
County MARSHALL District WEBSTER
Engineer *Donald K. Bell*
Engineer's Registration No. _____
File No. _____ Drawing No. Y-8-853
Date AUGUST 26 1940 Scale 1"=1000'

ME

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

WELL LOCATION MAP

File No. *MARS-138A-74*

— 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.



This permit for redrilling was issued 4/9/62

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

A drilling #

WELL RECORD

Quadrangle Cameron
Permit No. MARS-439-R

Oil or Gas Well GAS
(RHS)

Company The Mfrs. Lt. and Rt. Co.
Address 800 Union Trust Bldg., Pittsburgh 19, Pa.
Farm May Elder Acres 300
Location (waters) _____
Well No. 4690 Elev. 1192.60' G.I.B
District Webster County Marshall

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
13			Kind of Packer
10 3/4"	703'3"	703'3"	Size of
8 5/8"	1212'9"	1212'9"	Depth set
Orig 7"	1751'	538'	
5 3/16			
8 1/2"	1888'4"	1888'4"	Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced June 5, 1962
Drilling completed June 6, 1963
Date Shot 6/6/63 From Big Injun
With Pitot Tube

Open Flow /10ths Water in _____ Inch
22.5 /10ths Merc. in 4 Inch
Volume 2,560,000 Cu. Ft.
Rock Pressure 495 lbs. 72 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet
Salt water 1433 feet

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
COAL WAS ENCOUNTERED AT 662 FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	THICKNESS	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Pittsburgh Coal		6	662	668			
Sand		11	903	914			
Gas Sand		39	1324	1363			
1st Salt Sand		29	1433	1462			
3rd Salt Sand		93	1618	1711			
Big Injun Sand			1746				
Redrilled to 1841' and drilled deeper to 1888'. Cemented 4 1/2" Tubing.							
Cement left inside tubing to 1870'. TOTAL DEPTH				1870			
					Water (Original Record)		
					Pay Zones determined from Gamma-Gamma & Induction Logs		
					1828 - 1844	17.5% porosity max.	
						21% water saturation max.	
					1848 - 1864	11% porosity max.	
						67% water saturation max.	
					Tubing perforated from 1828' to 1844' with 4 - 2 1/8" capsule jets per foot.		



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks

Date July 22, 1963

APPROVED The Mfrs. Lt. and Et. Co., Owner

By Walter A. Penning
Land Agent (Title)