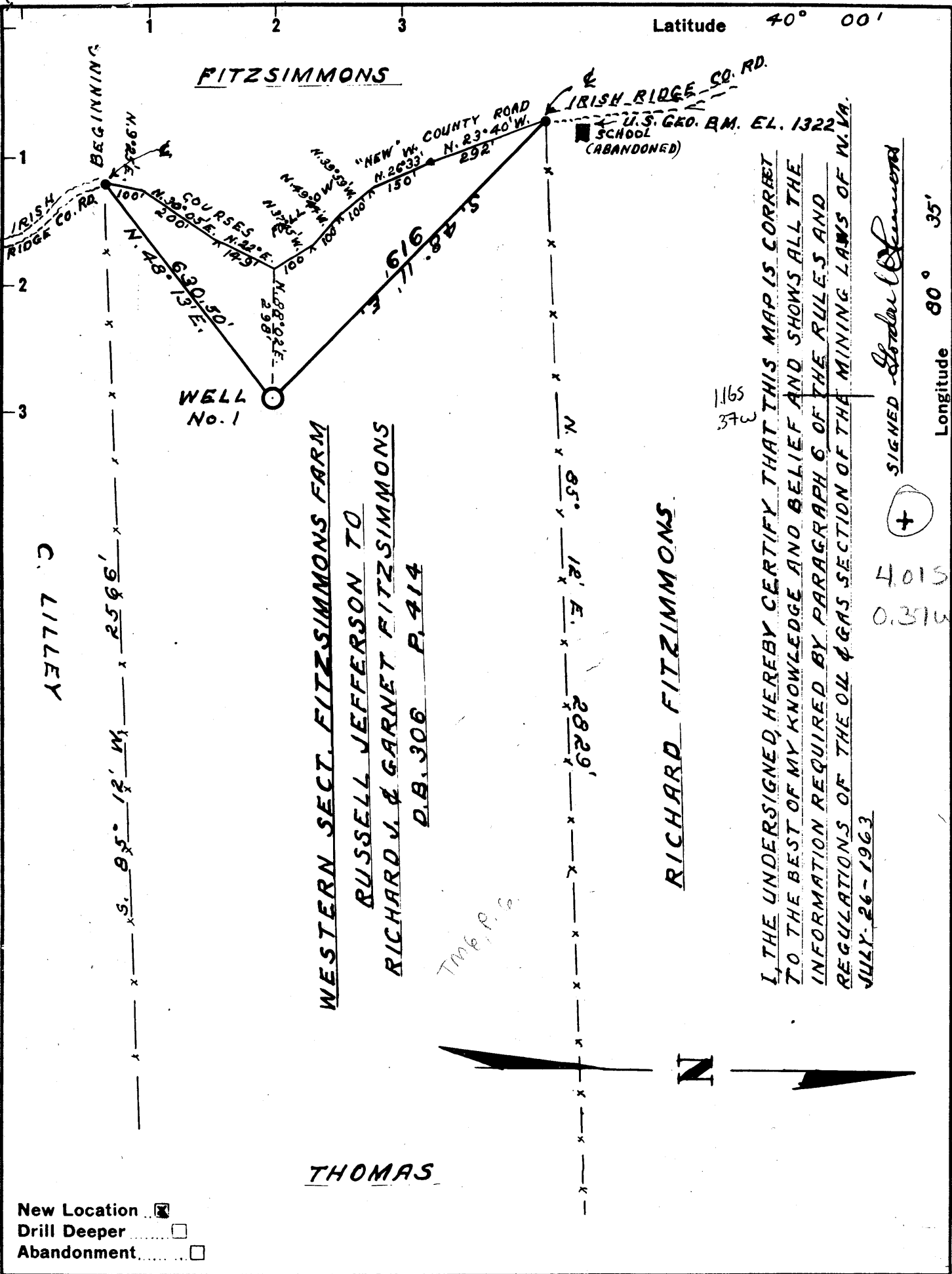


39°57'30"

Latitude 40° 00'



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 & GAS SECTION OF THE MINING LAWS OF W. VA. JULY 26 - 1963

SIGNED Gordon W. Sammons
 4015
 0.316

Longitude 80° 35'

New Location
 Drill Deeper
 Abandonment

Company UNION CARBIDE OLEFINS CO.
 Address P.O. Box 8004 - SOUTH CHARLESTON, W. VA.
 Farm RICHARD J. FITZSIMMONS
 Tract LOE 13 Acres 66.2 Lease No. 858
 Well (Farm) No. 1 Serial No. 18-44
 Elevation (Spirit Level) 1285.1
 Quadrangle CAMERON NC
 County MARSHALL District WEBSTER
 Engineer Gordon W. Sammons
GORDON W. SAMMONS
 Engineer's Registration No. _____
 File No. _____ Drawing No. 509
 Date JULY 25 - 1963 Scale 1" = 300'

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

WELL LOCATION MAP
 FILE NO. MARS-515

+ Denotes location of well on United States Topographic Maps, scale 1 to _____ 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 17

Rotary
Spudder
Cable Tools
Storage

Quadrangle Cameron

Permit No. MARS-515

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company Union Carbide Corp., Olefins Division
Address P. O. Box 8004, South Charleston, W.Va.
Farm Richard J. Fitzsimmons Acres 66.2
Location (waters) _____
Well No. 1 Elev. 1285'
District Webster County Marshall
The surface of tract is owned in fee by Richard J. Fitzsimmons Address Rt. 4, Cameron, W.Va.
Mineral rights are owned by M. A. Hanna Coal Co. Address Cadiz, Ohio

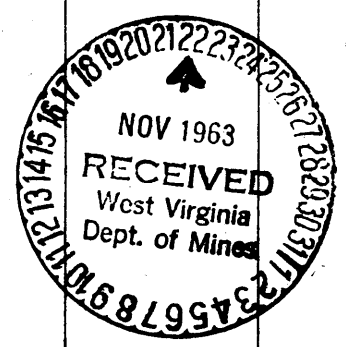
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer _____ Tension
16			Size of <u>2 1/2;</u> <u>6 5/8</u>
13			Depth set <u>1495' 4"</u>
<u>9 5/8"</u>	<u>805'</u>	<u>805'</u>	
<u>6 5/8"</u>	<u>2070'</u>	<u>2070'</u>	
<u>4 1/2"</u>	<u>2482'</u>	<u>590'</u>	
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

Drilling commenced August 23, 1963
Drilling completed November 4, 1963
Date Shot _____ From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume 600 MCF Cu. Ft.
Rock Pressure 425 lbs. 41 hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____
WELL FRACTURED _____

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
9 5/8" 40 sks; 7" 100 sks; 4 1/2" 55 sks.
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT Productive zone not treated.
ROCK PRESSURE AFTER TREATMENT _____
Fresh Water _____ Feet Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand w/Sh.Stks.			36	405			
Lime			405	475			
Lime w/Sh.Stks.			475	540			
Lime			540	680			
Lime w/Sand Stks.			680	691			
Coal			691	692			
Lime			692	768			
Coal Pbg			768	775			
Lime & Shale			775	830			
Red Rock			830	855			
Sandy Shale			855	875			
Red Rock & Shale			875	925			
Shale			925	1055			
Sandy Lime			1055	1110			
Red Rock & Shale			1110	1155			
Sandy Lime			1155	1205			
Red Rock & Shale			1205	1230			
Big Dunkard			1230	1265			
Shale w/Lime Stks.			1265	1320			
Sandy Lime			1320	1405			
1st Gas Sand			1405	1435			
Shale			1435	1512			
1st Salt			1512	1552			
Shale			1552	1576			
2nd Salt			1576	1633			
Shale			1633	1679			
3rd Salt			1679	1726			
Shale			1726	1751			
Marion			1751	1813			
Big Injun			1872	2078			



Formation	Color	Hard or Soft	Top /	Bottom	Oil, Gas or Water	Depth Found	Remarks
Shale & Sandy Berea	Shale		2078	2424			
Siltstone			2424	2433 ✓			
30'			2433	2686			
Siltstone & Shale			2686	2693			
Gordon Stray			2693	2731			
Siltstone & Shale			2731	2748			
Gordon			2748	2790			
Siltstone & Shale			2790	2810			
5th Sand			2810	2896			
Siltstone & Shale.			2896	2932			
T.D.			2932	3003			
				3003			
<u>FRACTURE TREATMENTS</u>							
<u>Berea FRAC:</u> Notch at 2428'. Treatment 600 bbls. water 30,000# sand. Show of gas after treatment. Cut off 4 1/2" casing at 1892' set bridge plug at 1863'.							
<u>Gordon FRAC:</u> 3 holes at 1802, 4 holes at 1778, 4 holes at 1757. Treatment 625 bbls. water, 25,000# 20-40 sand; show gas after treatment. Set bridge plug at 1720'.							
<u>3rd SALT:</u> 15 holes at 1695'; 373 bbls. water; 23,000# sand. Show of gas after treatment. Set bridge plug at 1650'.							
<u>2nd SALT:</u> 8 holes at 1611' and 7 holes at 1598'. Making 7 blrs./hr. of fresh water. Did not treat. Set bridge plug at 1550'.							
<u>1st SALT:</u> 15 holes at 1518'. 600 MCF after perf. R.P. 425#/41 hrs. Did not treat. Ran 2 1/2" tubing with tension packer. Set at 1495'.							

Date November 14, 19 63

APPROVED UNION CARBIDE CORP., Olefins Div., Owner

By Carl E. Moore
District (Title) Geologist