

New Location ..
 Drill Deeper
 Abandonment

(NOTE: G. W. SWIGER HRS. SURFACE)

Company UNION CARBIDE OLEFINS
 Address 410 KENNETH R. GOSNELL
BLDG. 82, ROOM 932, SOUTH CHARLESTON
 Farm H. H. HARDMAN HEIRS
 Tract _____ Acres 471.3 Lease No. _____
 Well (Farm) No. 1 Serial No. 18-36
 Elevation (Spirit Level) 840'
 Quadrangle CENTERPOINT NC
 County DODDRIDGE District McCLELLAND
 Engineer William M. Brooks
 Engineer's Registration No. 2019
 File No. _____ Drawing No. _____
 Date FEB. 9, 1962 Scale 1" = 990'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. Dod-774
 + Denotes location of well on United States
 Topographic Maps, scale 1 to 62,500, lat-
 itude 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 12

Quadrangle Centerpoint N.E.

Permit No. DOD-774

WELL RECORD

Oil or Gas Well Dry
(KIND)

Company Union Carbide Olefins Company
Address P. O. Box 8004, South Charleston, W.Va.
Farm H. H. Hardman Heirs Acres 471.3
Location (waters) Broad Run
Well No. # 1 Elev. 840 Gr. 850 KB
District McClelland County Doddridge
The surface of tract is owned in fee by G. W. Swiger Hrs.

Mineral rights are owned by W. H. Theiss, Agt. H.H. Hardman Hrs. Middlebourne Address West Virginia

Drilling commenced May 20, 1962
Drilling completed June 5, 1962

Date Shot _____ From _____ To _____
With _____

Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock Pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

WELL ACIDIZED Injun Sand - 1500 Gal.

Reg Acid - No results

WELL FRACTURED Gordon Sand - June 13, 1962 - 20000# Sand - 18000 Gal. Water
Injun Sand - July 18, 1962 - 15000# Sand

RESULT AFTER TREATMENT No results

ROCK PRESSURE AFTER TREATMENT _____

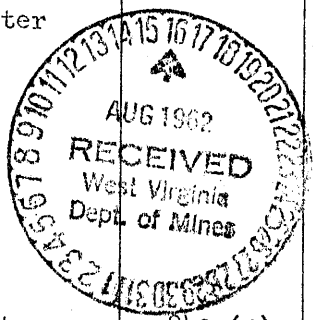
Fresh Water 10; 50 Feet 840 Salt Water 1527 Feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 3/8	77'	77'	
9-5/8	1022.64'	1022.64'	Size of
8 1/4			
6 5/8			Depth set
5 3/16	2786.90'	2786.90'	
3			Perf. top <u>See</u>
2			Perf. bottom <u>Back</u>
Liners Used			Perf. top <u>Page</u>
			Perf. bottom _____

5 1/2 Cemented W/225 Sax & 4% GB
CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date
9-5/8 Cemented W/44 Sax; 13-3/8 Cemented W/40 Sax

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

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
All Measurements Based on Kelly Bushing							
Sand & Gravel			10	31	Water		Hole Full
Gray Sandstone			31	46			
Sand & Shale			46	90	Water		Hole Full
Shale & Sand	Blue		90	150			
Sand & Shale	Blue		150	180			
Sand			180	200			
Sand & Shale	Blue		200	305			
Sand & Shale	Gray		305	390			
Sand	White		390	450			
Shale & Sand	White		450	615			
Sand	White	Hard	615	650			
Sand	Blue		650	840			
Sand	Blue		840	977	Water	840 (?)	
Sand & Shale			977	1015			
Shale & Sand			1015	1380			
Lime			1388	1443			
Shale			1443	1470			
Sand			1470	1535	Water	1527	?
Shale	Blue		1535	1830			
Little Lime			-1830	1845			
Shale			1845	1857			
Big Lime			-1857	1930			
Sand			1930	2009	Oil	1944	Show
Shale			2009	2013			
Injun Sand			2013	2107			
Shale			2107	2248			
Sand	Gray		2248	2255			



Formation	Color	Hard or Soft	Top <i>12</i>	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sandy Shale	Gray		2255	2280			
Shaley Sand			2280	2353			
Shale	Gray		2353	2439			
Sand			2439	2468			
Shale	Black		2468	2641			
Sand - <i>Gordon</i>	Brown		2641	2691			
Sand & Shale	Blue		2691	2973			
Sand	Gray		2973	2983			
Shale	Blue		2983	3028 TD			
<p>Perforated <u>Gordon Sand</u> June 12, 1962 - <u>2679-1/2 - 2680</u> with 8 - 1" Holes. Fractured 20000# 20 - 40 Sand and 18000 Gal. Water - No results after treatment</p>							
<p>July 16, 1962 - Perforated Injun Sand - <u>2094-2096</u>, 10 Holes. Acidized with Reg. Acid - No results</p>							
<p>July 18, 1962 - Perforated Injun Sand - <u>2020-2022</u> with 9 1/2" Crack Jets. Fractured W/15000# Sand, 18000 Gal. Water - Results after treatment - Salt water, trace oil.</p>							

Date August 10, 19 62

APPROVED Union Carbide Olefins Company, Owner

By Kenneth R. Gosnell
Kenneth R. Gosnell (Title) Dist. Prod. Engr.