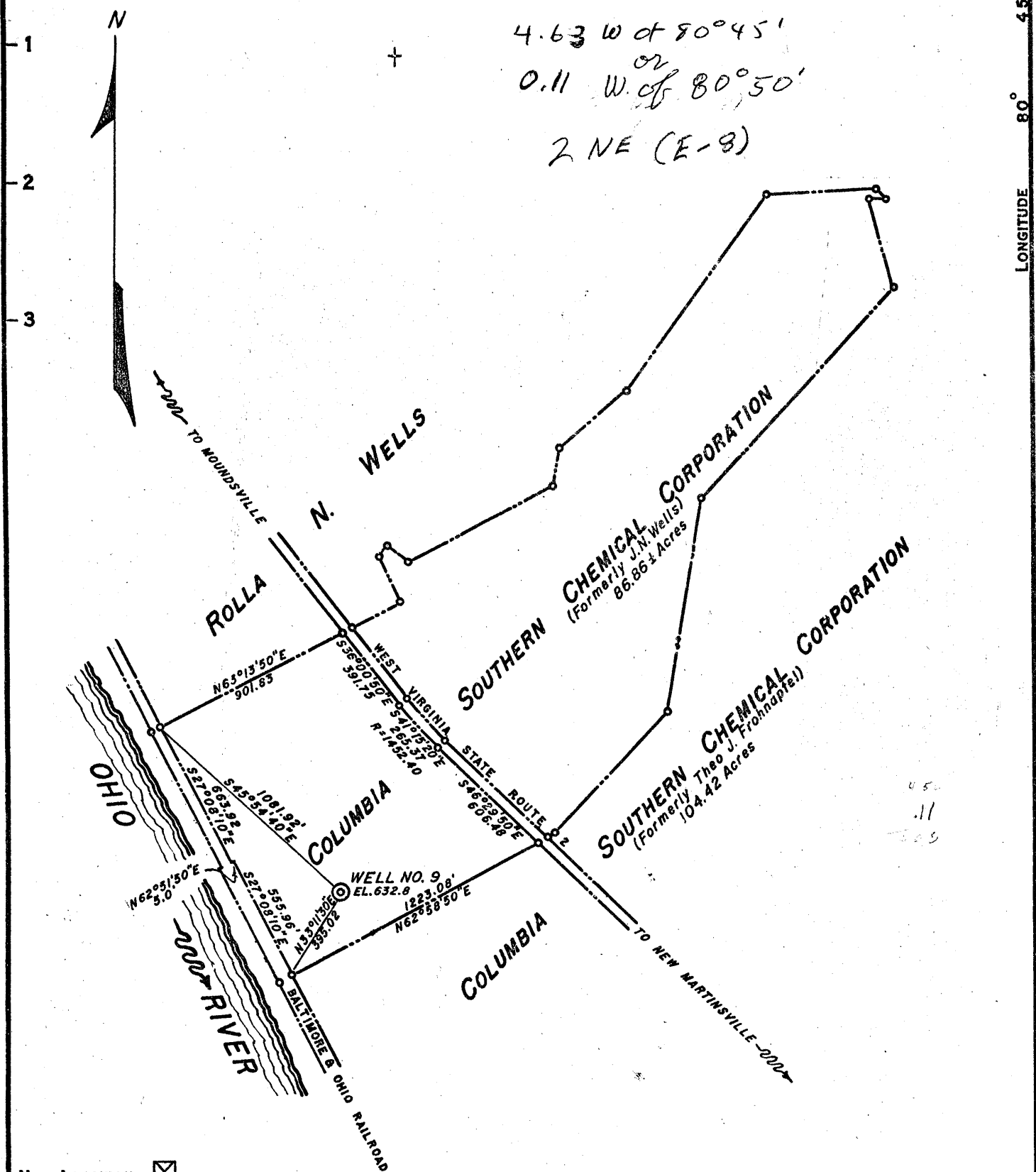


1 2 3 LATITUDE 39° 45'

1.28 S of 39°45'
 4.63 W of 80°45'
 0.11 W of 80°50'
 2 NE (E-8)

LONGITUDE 80° 45'



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

COMPANY COLUMBIA-SOUTHERN CHEMICAL CORP
 ADDRESS NEW MARTINSVILLE, W. VA.
 FARM COLUMBIA-SOUTHERN (FORMERLY J.N. WELLS)
 TRACT _____ ACRES 86.86 LEASE No. _____
 WELL (FARM) No. 9 SERIAL No. _____
 ELEVATION (SPIRIT LEVEL) 632.8'
 QUADRANGLE NEW MARTINSVILLE - NC
 COUNTY MARSHALL DISTRICT FRANKLIN
 ENGINEER C.E. Mundt
 ENGINEER'S REGISTRATION No. 1712
 FILE No. _____ DRAWING No. SK-40741-6
 DATE June 4, 1957 SCALE 1" = 600'

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

WELL LOCATION MAP

FILE No. MARS-313

+ 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.

9-0 0 Deepwell



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 7

Quad - New Martinsville
Permit No. MARS-313

WELL RECORD

Oil or Gas Well Brine
(KIND)

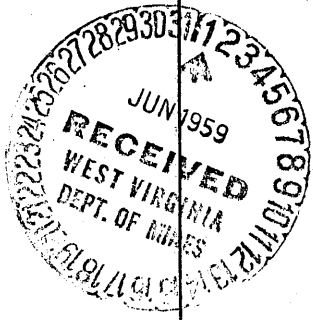
Company Columbia-Southern Chemical Corp.
Address New Martinsville, W. Va.
Farm J. N. Wells Acres 86.86
Location (waters) East Bank Ohio River, Natrium
Well No. 9 Elev. 632.8
District Franklin County Marshall
The surface of tract is owned in fee by Columbia-Southern Chemical Corp. Address New Martinsville
Mineral rights are owned by Columbia-Southern Chemical Corp. Address New Martinsville
Drilling commenced August 1, 1957
Drilling completed May 7, 1959
Date Shot _____ From _____ To _____
With _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16	62'	62'	Kind of Packer
13	443'	443'	
10	1530'	1530'	Size of
8-5/8	6804'	6804'	
6			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

CASING CEMENTED	SIZE	No. Ft.	Date
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 Found	Remarks
---	"	-	0	4.1			
Clay	"	Soft	4.1	37			
Gravel	"	Soft	37	65			
Sand	"	Hard	65	72			
Shale	"	Hard	72	114			
Lime	"	Hard	114	162			
Coal	"	Hard	162	167			
Lime	"	Hard	167	182			
Slate	"	Hard	182	186			
Lime	"	Hard	186	198			
Shale	"	Hard	198	221			
Lime	"	Hard	221	228			
Slate	"	Hard	228	232			
Lime	"	Hard	232	246			
Slate	"	Hard	246	252			Pittsburgh Coal
Coal	"	Hard	252	258			
Shale	"	Hard	258	291			
Sand	"	Hard	291	312			
Slate	"	Hard	312	317			
Red Rock	"	Hard	317	322			
Shale	"	Hard	322	346			
Red Rock	"	Hard	346	348			
Slate	"	Hard	348	387			
Sand	"	Hard	387	396			
Red Rock	"	Hard	396	402			
Shale	"	Hard	402	432			
Red Rock	"	Hard	432	452			
Shale	"	Hard	452	497			
Sand	"	Hard	497	528			Cow Run
Shale	"	Hard	528	550			
Red Rock	"	Hard	550	555			
Shale	"	Hard	555	561			
Sand	"	Hard	561	572			
Lime	"	Hard	572	578			
Sand	"	Hard	578	602			
Slate	"	Hard	602	646			
Red Rock	"	Hard	646	651			
Shale	"	Hard	651	669			
Red Rock	"	Hard	669	682			



(Over)

Brine

Formation	Color	Hard or Soft	Top 7	Bottom	Oil, Gas or Water	Depth Found	Remarks
Shale	-	Hard	682	707			
Lime	-	Hard	707	712			
Shale	-	Hard	712	752			
Lime	-	Hard	752	765			
Shale	-	Hard	765	782			
Lime	-	Hard	782	792			
Slate	-	Hard	792	799			
Lime	-	Hard	799	809			
Shale	-	Hard	809	840			
Lime	-	Hard	840	881			
Slate	-	Hard	881	948			
Sand	-	Hard	948	982			
Slate	-	Hard	982	1029			
Sand	-	Hard	1029	1046			
Slate	-	Hard	1046	1111			
Sand	-	Hard	1111	1122			
Shale	-	Hard	1122	1172			
Sand	-	Hard	1172	1211			
Shale	-	Hard	1211	1221			
Sand	-	Hard	1221	1250			
Shale	-	Hard	1250	1277	1272-1275		
Lime	-	Hard	1277	1286			
Slate	-	Hard	1286	1289			
Lime	-	Hard	1289	1327			Big Lime
Sand	-	Hard	1327	1597	Water 1418-1446		Injun Sand
Shale	-	Hard	1597	1685			
Lime	-	Hard	1685	1697			
Slate & Shells	-	Hard	1697	1752			
Sand	-	Hard	1752	1802			
Lime	-	Hard	1802	1851			
Slate & Shells	-	Hard	1851	2286			
Sand	-	Hard	2286	2328			
Slate & Shells	-	Hard	2328	2376			
Sand	-	Hard	2376	2383			
Slate & Shells	-	Hard	2383	2461			
Lime	-	Hard	2461	2546			
Slate & Shells	-	Hard	2546	2898			
Lime	-	Hard	2898	2996			
Slate & Shells	-	Hard	2996	5805			
Lime	-	Hard	5805	6030			Onondaga
Sand	-	Hard	6030	6083			Oriskany
Lime	-	Hard	6083	6705			Helderberg
Salt & Lime	-	Hard	6705	6815			
Lime	-	Hard	6815	6820.5			TD 6820.5

Date May 29, 19 59

APPROVED Columbia-Southern Chemical Corp., Owner

By G. I. Cobb

(Title)

G. I. Cobb, Chief Engineer