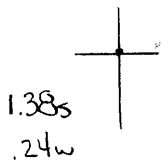


Latitude



Longitude

Topo Location

7.5' Loc. _____ 15' Loc. _____
 _____ (calc.) _____

Company PP&G

Farm PP&G

15' Quad _____
(sec.)

7.5' Quad New Martinsville

District Franklin

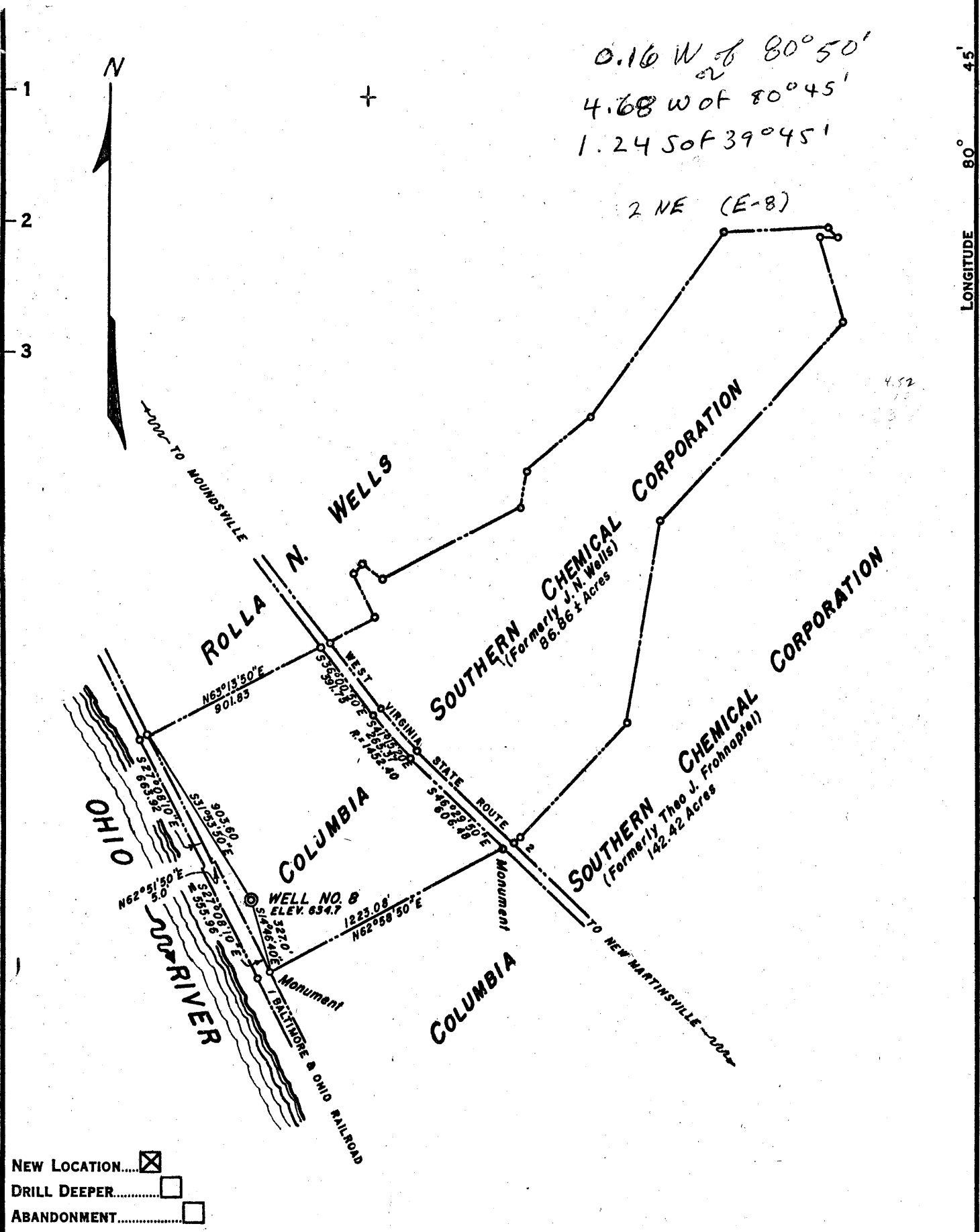
WELL LOCATION PLAT

County OSI Permit 310

LATITUDE 39° 45'

LONGITUDE 80° 45'

0.16 W of 80° 50'
4.68 W of 80° 45'
1.24 S of 39° 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. 8	SERIAL No. _____
ELEVATION (SPIRIT LEVEL) 634.7'	
QUADRANGLE NEW MARTINSVILLE	- NC
COUNTY MARSHALL	DISTRICT FRANKLIN
ENGINEER C.E. Minor	
ENGINEER'S REGISTRATION No. 1712	
FILE No. _____	DRAWING No. SK-40740-G
DATE June 3, 1957	SCALE 1" = 600'

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

WELL LOCATION MAP

FILE No. MARS-310

+ 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

New Martinsville quad

WELL RECORD

Permit No. MARS-310

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. 8 Elev. 634.7'
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 June 20, 1957
Drilling completed October 14, 1958
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.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16	65'	65'	Kind of Packer
18	418'	418'	
10	1537'	1537'	Size of
8 1/4	6813'	6813'	
6 3/4			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

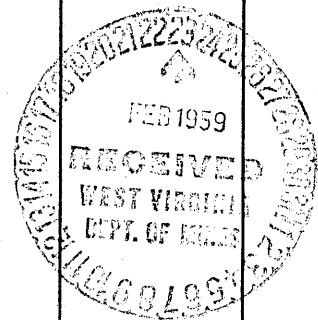
CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

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	3.8			
Clay, Sand, Gravel	---	Soft	3.8	65			
Lime	---	Hard	65	77			
Red Rock	---	Hard	77	85			
Lime	---	Hard	85	90			
Slate	---	Hard	90	115			
Lime	---	Hard	115	156			
Slate	---	Hard	156	185			
Lime	---	Hard	185	190			
Slate	---	Hard	190	194			
Lime	---	Hard	194	197			
Slate	---	Hard	197	205			
Lime	---	Hard	205	225			
Slate	---	Hard	225	290			
Sand	---	Hard	290	307			
Slate	---	Hard	307	310			
Lime	---	Hard	310	324			
Slate	---	Hard	324	334			
Red Rock	---	Hard	334	337			
Slate	---	Hard	337	348			
Red Rock	---	Hard	348	350			
Lime	---	Hard	350	369			
Slate	---	Hard	369	378			
Red Rock	---	Hard	378	390			
Slate	---	Hard	390	400			
Lime	---	Hard	400	419			
Sand	---	Hard	419	427			
Lime	---	Hard	427	435			
Red Rock	---	Hard	435	440			
Slate	---	Hard	440	465			
Red Rock	---	Hard	465	480			
Slate	---	Hard	480	495			
Sand	---	Hard	495	532			
Slate	---	Hard	532	550			
Red Rock	---	Hard	550	555			
Slate	---	Hard	555	560			
Sand	---	Hard	560	570			
Slate	---	Hard	570	580			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime	---	Hard	580	590			
Slate	---	Hard	590	665			
Red Rock	---	Hard	665	685			
Slate	---	Hard	685	709			
Lime	---	Hard	709	738			
Slate	---	Hard	738	785			
Gritty Lime	---	Hard	785	791			
Slate	---	Hard	791	797			
Lime	---	Hard	797	815			
Slate	---	Hard	815	887			
Lime	---	Hard	887	911			
Slate	---	Hard	911	955			
Sand	---	Hard	955	986			
Slate & Lime	---	Hard	986	1051			
Sand	---	Hard	1051	1072			
Slate & Lime	---	Hard	1072	1151			
Black Slate	---	Hard	1151	1175			
✓ Salt Sand	---	Hard	1175	1224			
Slate	---	Hard	1224	1231			
✓ Maxton Sand	---	Hard	1231	1243			
Slate	---	Hard	1243	1253			
✓ Kittle Lime	---	Hard	1253	1258			
✓ Slate	---	Hard	1258	1283			
✓ Lime	---	Hard	1283	1331			
✓ Sand	---	Hard	1331	1341			
✓ Injun Sand	---	Hard	1341	1597	Water 1410, 1445, 1448		
Slate & Shells	---	Hard	1597	1695			
Lime	---	Hard	1695	1710			
Slate & Shells	---	Hard	1710	1750			
Lime	---	Hard	1750	1769			
Sand	---	Hard	1769	1790			
Slate & Shells	---	Hard	1790	2030			
Pink Rock	---	Hard	2030	2042			
Slate & Shells	---	Hard	2042	2142			
Lime	---	Hard	2142	2150			
Slate & Shells	---	Hard	2150	2280			
Lime	---	Hard	2280	2291			
Slate	---	Hard	2291	2302			
Sand	---	Hard	2302	2323			
Slate & Shells	---	Hard	2323	2346			
Sand	---	Hard	2346	2358			
Slate & Shells	---	Hard	2358	2470			
Lime	---	Hard	2470	2490			
Slate & Shells	---	Hard	2490	2605			
Lime	---	Hard	2605	2625			
Slate & Shells	---	Hard	2625	2660			
Sand	---	Hard	2660	2672			
Slate & Shells	---	Hard	2672	2910			
✓ Lime	---	Hard	2910	2968			
Slate & Shells	---	Hard	2968	3321			
Lime	---	Hard	3321	3347			
Slate & Shells	---	Hard	3347	3406			
Lime	---	Hard	3406	3418			
Slate & Shells	---	Hard	3418	5815			
✓ Lime	---	Hard	5815	6035			Onondaga
✓ Shale	---	Hard	6035	6038			
✓ Sand	---	Hard	6038	6090			Oriskany
✓ Lime	---	Hard	6090	6606			Helderberg
✓ Shaley Lime	---	Hard	6606	6627			
Lime	---	Hard	6627	6651			
Shaley Lime	---	Hard	6651	6662			
Lime	---	Hard	6662	6675			
Shaley Lime	---	Hard	6675	6678			
Lime	---	Hard	6678	6696			
Shaley Lime	---	Hard	6696	6706			
Lime	---	Hard	6706	6714			
Shaley Lime	---	Hard	6714	6716			
Salt	---	Hard	6716	6728			
Lime	---	Hard	6728	6736			

For continuation and approval
see Sheet 2.

Date February 20, 1959

APPROVED Columbia-Southern Chemical Corp., Owner

By G. L. Cobb Chief Engineer
(Title)

Sheet 2

Muss-310

<u>Formation</u>	<u>Color</u>	<u>Hard or Soft</u>	<u>Top</u>	<u>Bottom</u>	<u>Oil, Gas or Water</u>	<u>Depth Found</u>	<u>Remarks</u>
Salt	--	Hard	6736	6742			
Lime	--	Hard	6742	6744			
Salt	--	Hard	6744	6748			
Lime	--	Hard	6748	6752			
Salt	--	Hard	6752	6759			
Limey Salt	--	Hard	6759	6762			
Salt	--	Hard	6762	6773			
Shaley Lime	--	Hard	6773	6776			
Salt	--	Hard	6776	6795			
Lime	--	Hard	6795	6799			
Salt	--	Hard	6799	6803			
Limey Salt	--	Hard	6803	6810			
Salt	--	Hard	6810	6819.5			
Lime	--	Hard	6819.5	6823			6823 TD

Date: February 20, 1959

Approved: Columbia-Southern Chemical Corp., Owner

By: G. L. Cobb
G. L. Cobb, Chief Engineer