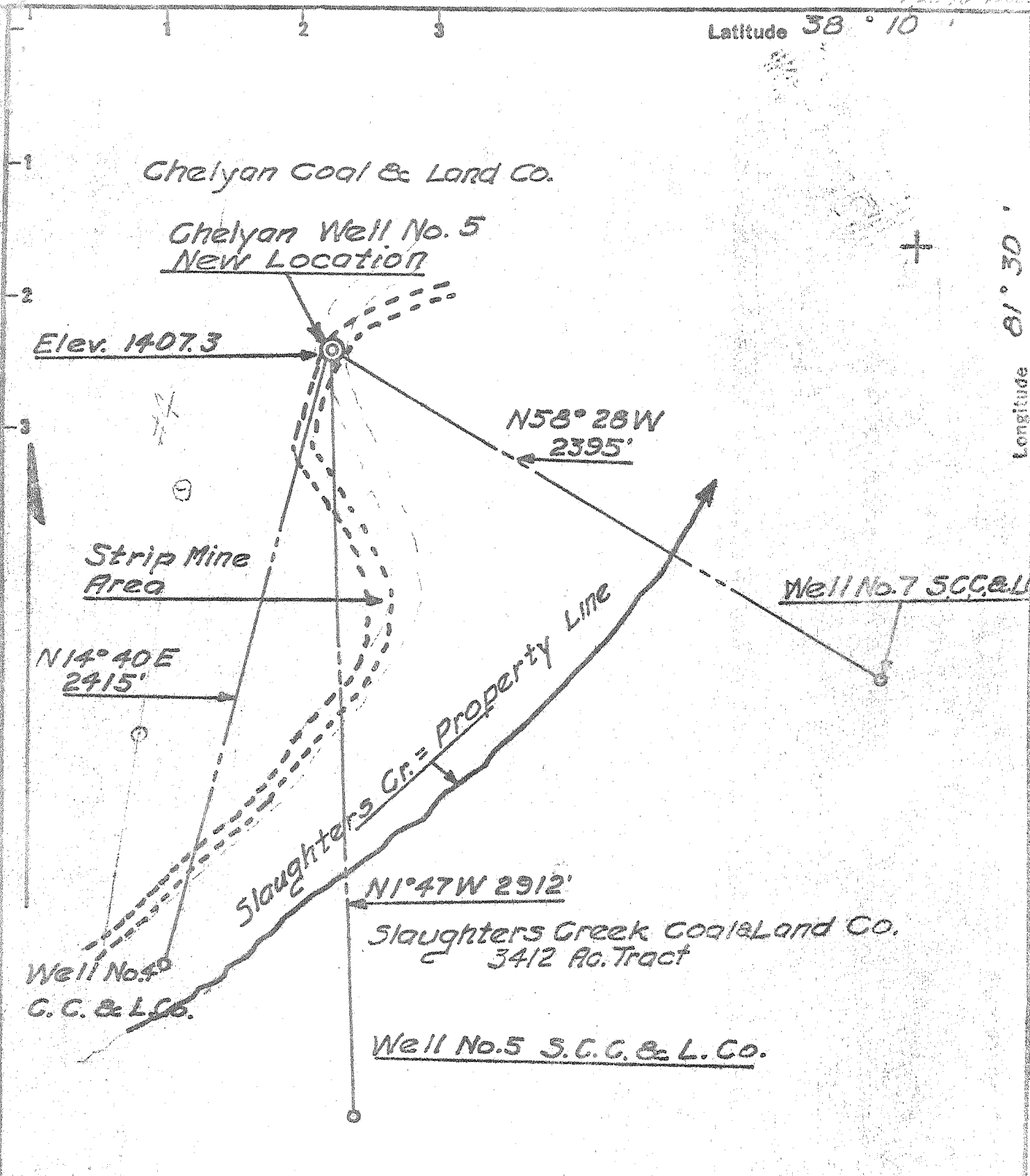


9-28-70-DC-0

Latitude 38° 10'

Longitude 81° 30'



- Fracture Before 6/5/27
- New Location
- Drill Deeper
- Redrill
- Abandonment

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 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.

The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

PROVEN ELEVATION GOV. B. M. Slaughters Ch. 5, E. 1428
Closure 1 ft in 200 ft.

Company Union Oil Company Of Cal.
 Address Clay City, Ill.
 Farm Chelyan Coal & Land Co.
 Tract _____ Acres 3576 Lease No. _____
 Well (Farm) No. 5 Serial No. _____
 Elevation (Spirit Level) 1407.3
 Quadrangle Peytona (Bell) W.V.A. EC
 County Kanawha District Cabin Cr.
 Engineer Hassel Miller
 Engineer's Registration No. 241
 Drawing No. _____
 Date Oct. 1970 Scale 1" = 500'

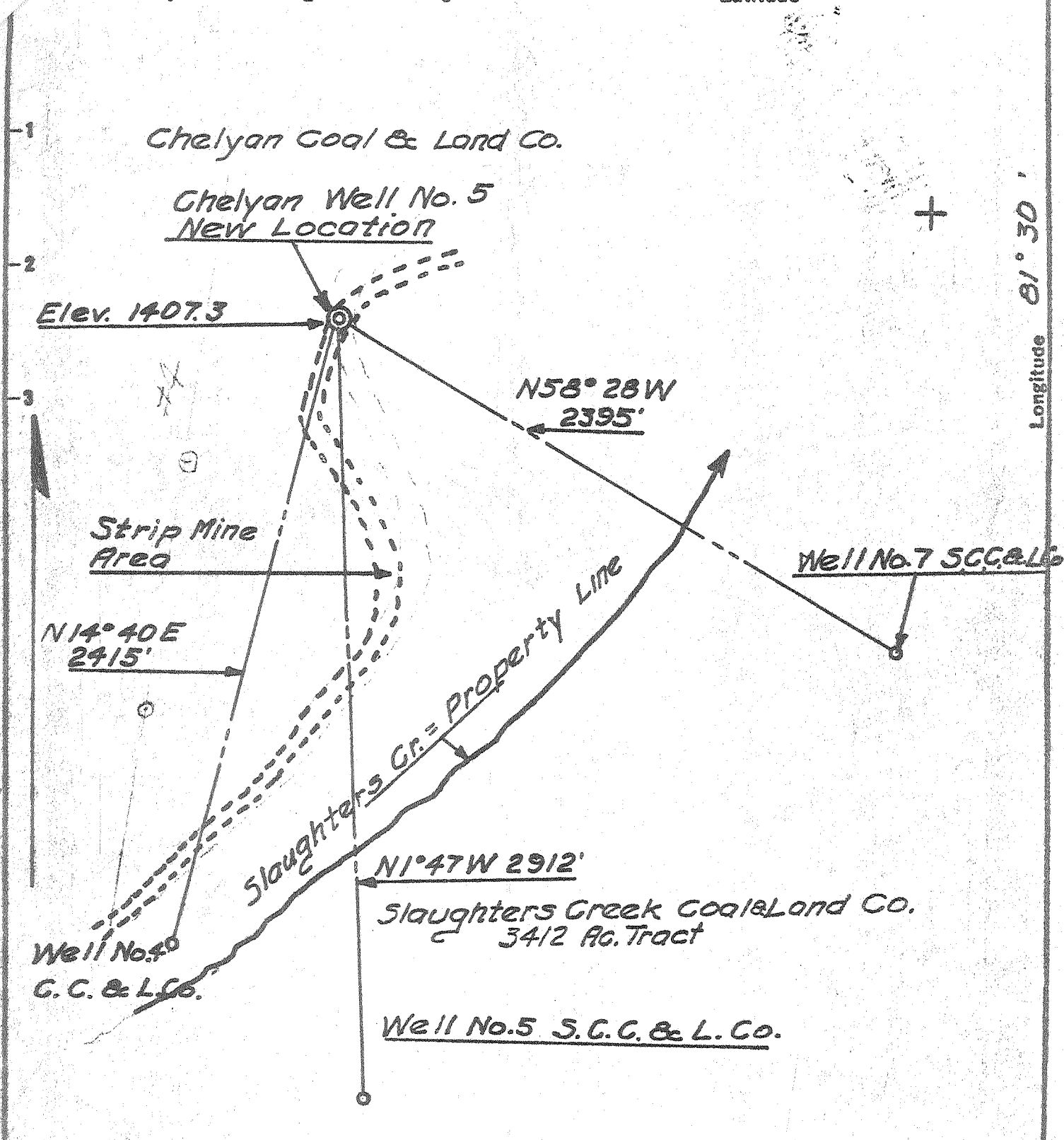
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. KAN-2481-PP

Correction: Partially Plugged
 + 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.

Latitude $38^{\circ} 10'$



Fracture Before 6/5/27
 New Location
 Drill Deeper
 Redrill
 Abandonment
 Used 12-11-70

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The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

PROVEN ELEVATION GOV. B. M. Slaughter's Ch. 5, E. 1428
 Closure 1 ft in 200 ft.

Company Union Oil Company Of Cal.
 Address Clay City, Ill.
 Farm Chelyan Coal & Land Co.
 Tract _____ Acres 3576 Lease No. _____
 Well (Farm) No. 5 Serial No. _____
 Elevation (Spirit Level) 1407.3
 Quadrangle Peytona (Bell) W.VA. EC
 County Kanawha District Cabin Cr.
 Engineer Hassel Miller
 Engineer's Registration No. 241
 File No. _____ Drawing No. _____
 Date Sept. 1970 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. KAN-2481-P

+ 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.

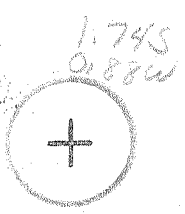
- Denotes one inch spaces on border line of original tracing.

Latitude 38° 10'

Longitude 81° 30'

Chelyan Coal & Land Co.

Chelyan Well No. 5
New Location



Elev. 1407.3

N58° 28' W
2395'

Strip Mine Area

N14° 40' E
2415'

Slaughters Cr. = Property Line

Well No. 7 S.C.C. & L.Co.

N1° 47' W 2912'

Slaughters Creek Coal & Land Co.
3412 Ac. Tract

Well No. 40
C. C. & L. Co.

Well No. 5 S.C.C. & L. Co.

- Fracture Before 6/5/27
- New Location
- Drill Deeper
- Redrill
- Abandonment

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The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

PROVEN ELEVATION GOV. B. M. Slaughters Ch. 5, E. 1428
Closure 1 pt in 200 ft.

Company Union Oil Company Of Cal.
 Address Clay City, Ill.
 Farm Chelyan Coal & Land Co.
 Tract _____ Acres 3576 Lease No. _____
 Well (Farm) No. 5 Serial No. _____
 Elevation (Spirit Level) 1407.3
 Quadrangle Peytond (Bell) W.V.A. EC
 County Kanawha District Cabin Cr.
 Engineer Hassel Miller
 Engineer's Registration No. 241
 File No. _____ Drawing No. _____
 Date Sept. 1970 Scale 1" = 500'

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

WELL LOCATION MAP
FILE NO. KAN-2481

+ 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.

3-0 Slaughter Creek 241

Deep Well (Tuscarora)
OCT 12 1970



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

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle Peytona
Permit No. Kan 2481

WELL RECORD

Oil or Gas Well DRY
(KIND)

Company Union Oil Company of California
Address Clay City, Illinois
Farm Chelyan Coal & Land Co. Acres 3576
Location (waters) Slaughter's Creek
Well No. 5 Elev. 1425 KB
District Cabin Crk County Kanawha
The surface of tract is owned in fee by
Address
Mineral rights are owned by Carbon Fuel Company
Address Winifrede, W. Va.

Drilling commenced 11-15-70
Drilling completed 12-12-70
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 (DETAILS)
WELL FRACTURED (DETAILS)

RESULT AFTER TREATMENT (Initial open Flow or bbls.)
ROCK PRESSURE AFTER TREATMENT HOURS
Fresh Water Feet Salt Water Feet
Producing Sand Depth

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
<u>20'</u>			Kind of Packer
13	<u>930'</u>	<u>930'</u>	
10	<u>9 5/8"</u>	<u>3096</u>	Size of
8 1/4			
6 3/8			Depth set
5 3/16			
4 1/2			Perf. top
3			Perf. bottom
2			Perf. top
Liners Used			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED SIZE No. Ft. Date
Amount of cement used (bags)
Name of Service Co. Halliburton
COAL WAS ENCOUNTERED AT 260 FEET INCHES
370 FEET INCHES 550 FEET INCHES
600 FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand			0	160			
Clay			160	180			
Sand			180	430			
Shale			430	490			
Siltstone			490	540			
Shale			540	590			
Sand			590	780			
Shale			780	820			
Sand & Shale			820	1160			
Shale			1160	1290			
Sand			1290	1380			
Shale			1380	1520			
Sand & Shale			1520	2030			
Sand			2030	2100			
Sand & Shale			2100	2180			
Lime			2180	2500			
Shale & Silt			2500	2922			
Sand - Berea			2922	2948			
Shale & Silt			2948	5722			
Lime & Chert		<u>On-Hunt.</u>	5722	5814			
Sand		<u>Or.</u>	5814	5836			
Lime		<u>Helt + Salina</u>	5836	6478	Sour Gas	6350	
Sand		<u>Newberg</u>	6478	6494			
Dolomite		<u>- mckenzie</u>	6494	6666			
Sand		<u>Keef.</u>	6666	6706			
Shale		<u>Rose Hill</u>	6706	7101			
Sand		<u>Tuscarora</u>	7101	7158	Gas	7148	Show
Shale			7158	7210			

RECEIVED
DEC 15 1970

Formation	Color	Hard or Soft	Top <i>f</i>	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red Shale & Silt Shale & Lime Total Depth		Juniata Martinsburg	7210 7540	7540 8075 8075			
				7540 1487 6132			

Date 12-11, 1970

APPROVED _____, Owner

By D. C. Malcolm

(Title)

D. C. Malcolm, Consulting Geologist