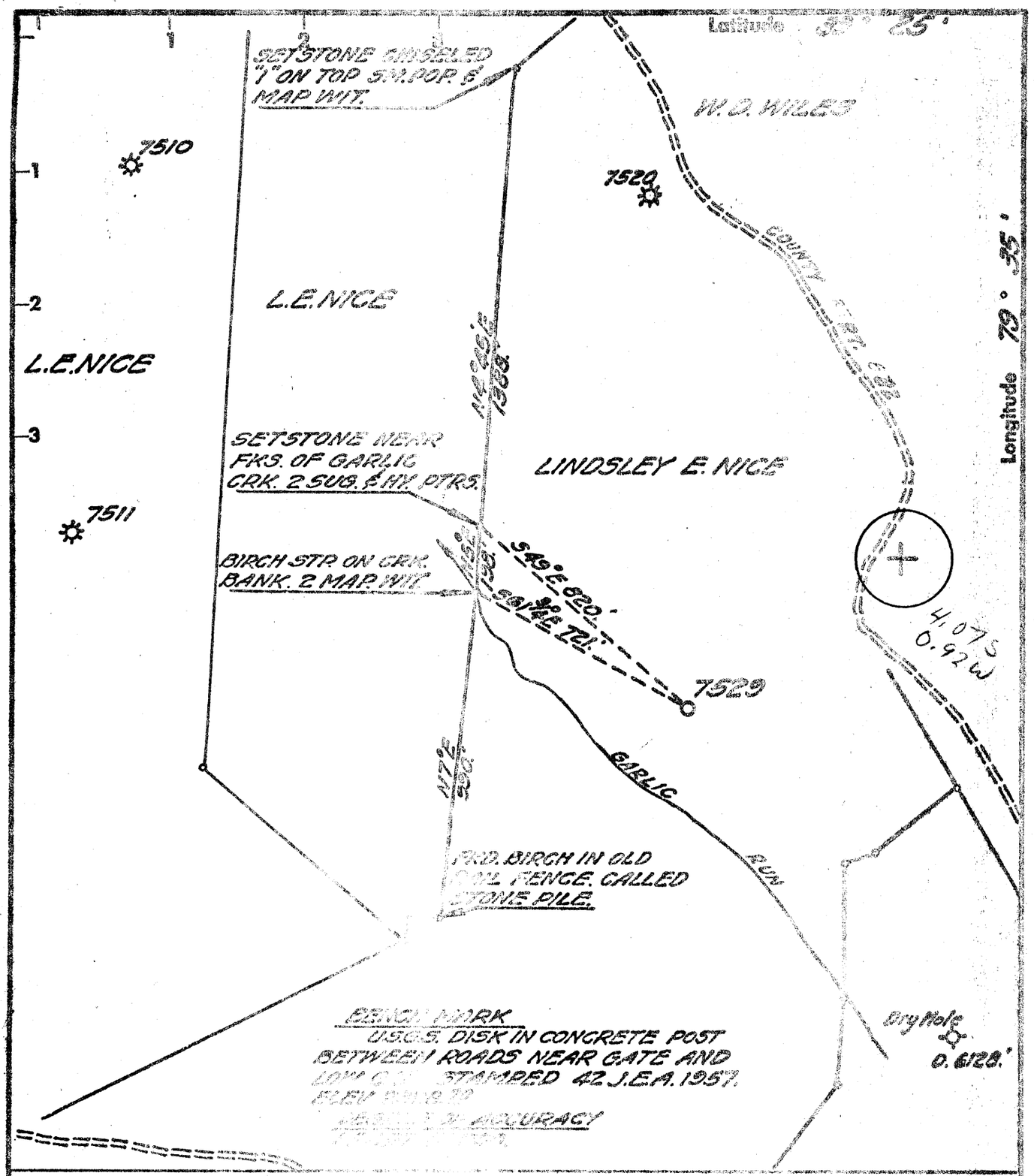
Plot ✓✓ Log ✓✓ Card ✓ CSD___ Mflm ✓

3/30/71 CEN



Fracture
Before 6/5/29 ☐
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 Rule 16.01 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.

The boundary of this survey is within the limits and as prescribed in Regulations for the Oil and Gas Division of the Department of Mines Regulations.

Company ATLANTIC SEABOARD CORP.
Address CHARLESTON, W. VA.
Farm LINDSLEY E. NICE
Tract ____ Acres 53 Lease No. 69-1097
Well (Farm) No. ____ Serial No. 7529
Elevation (Spirit Level) 2249.10'
Quadrangle KINGWOOD
County PRESTON District UNION
Engineer Gilman E. Shockey
Engineer's Registration No. 2330
File No. 172-127 Drawing No. ____
Date 3-9-71 Scale 1" = 400'

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

WELL LOCATION MAP
FILE NO. PRES-157

+ 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 66 Terra Alta (280) Deep Well (Oriskany)

APR 1 0 1971

Form OG-10

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

REC'D WELL
JAN 26 1972

Rotary [X]
Spudder [ ]
Cable Tools [ ]
Storage [X]

Quadrangle Kingwood

Permit No. Pres. 157

WELL RECORD

Oil or Gas Well Gas (KIND)

Company Columbia Gas Transmission Corporation
Address P. O. Box 1067, Elkins, West Virginia
Farm Lindsley E. Nice Acres 53
Location (waters) Garlic Run
Well No. X-76-S 7529 Elev. 2249.10'
District Union County Preston
The surface of tract is owned in fee by
Address
Mineral rights are owned by
Address
Drilling commenced May 13, 1971
Drilling completed May 30, 1971
Date Shot From To
With

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size	Ground Level		
16			Kind of Packer
13/ 13 3/8"	33'	33'	
10			Size of
8¼/ 9 5/8"	2055'	2055'	
6¼/ 7"	5689'	5689'	Depth set
5 3/16			
4½			
3			Perf. top
2/ 2 8/8"	5809'	5809'	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume 14.6 M Cu. Ft.
Rock Pressure 1700 lbs. 15 min. hrs.
Oil bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS)
(See Reverse Side)
WELL FRACTURED (DETAILS)

Attach copy of cementing record.
CASING CEMENTED SIZE No. Ft. Date
Amount of cement used (bags) See Reverse Side
Name of Service Co. Dowell
COAL WAS ENCOUNTERED AT None FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 15.3 M (15,300 Mcf)
ROCK PRESSURE AFTER TREATMENT 2190# HOURS 2 hrs.
Fresh Water Feet Salt Water Feet
Producing Sand Chert and Oriskany Depth 5820

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Shale and Siltstone			0	4925		Measured from KB	
Tully Lime			4925	4946			
Shale			4946	5672			
Onondaga Lime			5672	5695			
Chert - Huntersville → Needmore Sh.? Oriskany			5695				
Total Depth				5820			

475

5672
2249
3423

(over)

FEB 7 1972

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks

NOTE:

13 3/8" 48#/ft., H-40, casing cemented to surface with 25 sacks of neat cement plus 2% CaCl. May 13, 1971. 33' ground level, 50' kelly bushing.

9 5/8" 36#/ft., K-55, casing cemented to surface with 600 sacks Kolit plus 2% CaCl. May 18, 1971. Casing set at 2055' ground level, 2072' kelly bushing. Threads off 2052', threads on 2066'.

7" 23#/ft., K-55, Seal-lok casing cemented in 1000' with 220 cu. ft. of Dowells RFC cement plus Kolite, May 27, 1971. Gel drilling mud to surface with 1 drum of Baroids B-33. Casing set 4' in Chert. Casing set at 5689' ground level, 5706' kelly bushing. Threads off 5737', Threads on 5785'.

2 3/8" 4.6 #/ft., J-55, Seal-lok tubing run to T.D. (1) Baker Model "J" ported seating nipple, (1) Baker BFC Model "L" sliding sleeve. Sliding sleeve is 432' off bottom. May 30, 1971. 5809' ground level, 5824' kelly bushing, Threads off 5819', Threads on 5866'.

Perforations:

Chert and Oriskany open hole.

Logging:

Gamma-ray, Collar log. (4850' - 5819') May 29, 1971.
Temperature (5600' - 5802') August 25, 1971.

Stimulation:

May 29, 1971

Killed well with 326 barrels fresh water.

June 24, 1971

Halliburton treated well using 2000 gallons Mod. 202 Acid, 15%. Followed with 630 barrels water. Average pressure 1600#, and 10 BPM. Well on vac. after treatment.

(1) June 25, 1971 - open flow - 1870#
Blew for 2 hrs. 4.76 M.

(2) June 26, 1971 - open flow - 1900#
Blew for 2 hrs. 5.5 M

(3) June 28, 1971 - open flow - 1950#
Blew for 4 hrs. 7.3 M

July 1, 1971

Dowell pumped in 3000 gallons Methanal, pressured up on same with gas, left pressure on all night.

(1) July 2, 1971 - open flow
Blew for 5 hrs. 8.3 M

August 25, 1971

2165# Rock pressure, Blew for 2 hrs. 14.7 M

August 27, 1971

Dowell treated well using 5000 gallons 20% HCL acid, 5000 gallons 3% HCL acid, 2000 gallons Fix a Frac., 5000 gallons 20% HCL acid, 5000 gallons 3% HCL acid followed with 800 barrels fresh water. 2400# average pressure, 36.8 BPM plus N_2.

Final open flow rock pressure 2190# well making 15.3 M. Wet

Date January 20, 1972

APPROVED Columbia Gas Transmission Corporation Owner

By _____ (Title)

Production and Storage Superintendent