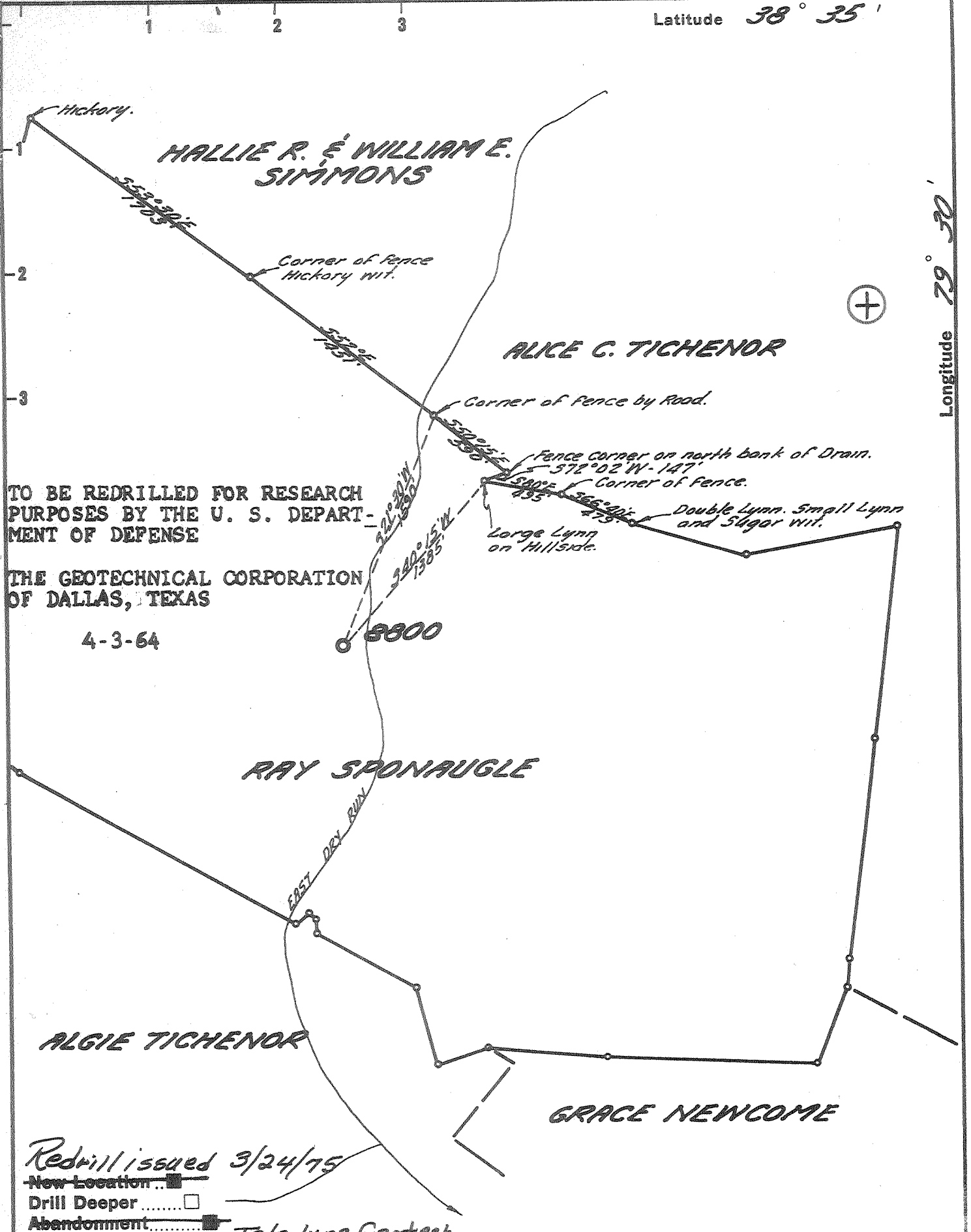


Latitude $38^{\circ} 35'$

Longitude $79^{\circ} 30'$



TO BE REDRILLED FOR RESEARCH PURPOSES BY THE U. S. DEPARTMENT OF DEFENSE

THE GEOTECHNICAL CORPORATION OF DALLAS, TEXAS

4-3-64

8800

RAY SPONAUGLE

ALGIE TICHENOR

GRACE NEWCOME

Redwell issued 3/24/75

New Location
 Drill Deeper
 Abandonment

Teledyne Geotech

Company	United Fuel Gas Co.
Address	CHARLESTON, W. VA.
Farm	RAY SPONAUGLE
Tract	Acres 12.45 Lease No. 54532
Well (Farm) No.	1 Serial No. 8800-T
Elevation (Spirit Level)	2984.67'
Quadrangle	SPRUCE KNOB SE
County	PENDLETON District CIRCLEVILLE
Engineer	Robert R. Howell
Engineer's Registration No.	2529
File No.	176-73 Drawing No.
Date	3-5-59 Scale 1" = 800'

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

WELL LOCATION MAP
 FILE NO. Pen-6-Redrilled

+ 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.

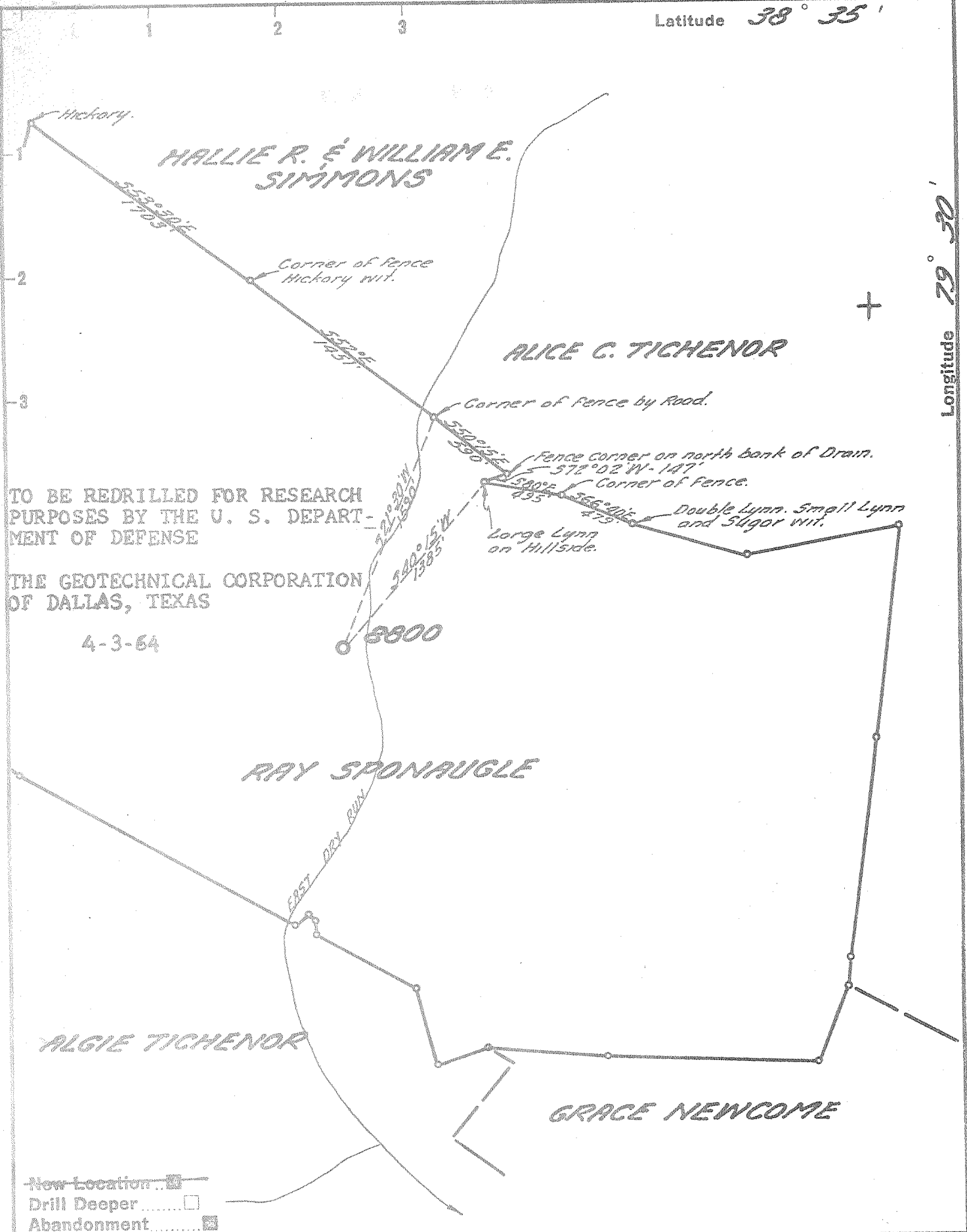
- Denotes one inch spaces on border line of original tracing.

47-071

500' Spinaugle

Latitude $38^{\circ} 35'$

Longitude $79^{\circ} 30'$



TO BE REDRILLED FOR RESEARCH PURPOSES BY THE U. S. DEPARTMENT OF DEFENSE

THE GEOTECHNICAL CORPORATION OF DALLAS, TEXAS

4-3-64

8800

- New Location
- Drill Deeper
- Abandonment

Company	Consolidated Gas Supply, Corp.	
Address	CHARLESTON, W. VA.	
Farm	RAY SPONAUIGLE	
Tract	Acres 12.95	Lease No. 50532
Well (Farm) No.	1	Serial No. 8800
Elevation (Spirit Level)	2984.67'	
Quadrangle	SPRUCE KNOB SE	
County	PENDLETON District CIRCLEVILLE	
Engineer	Hubert R. Jewell	
Engineer's Registration No.	2529	
File No.	176-72	Drawing No.
Date	3-5-59	Scale 1" = 800'

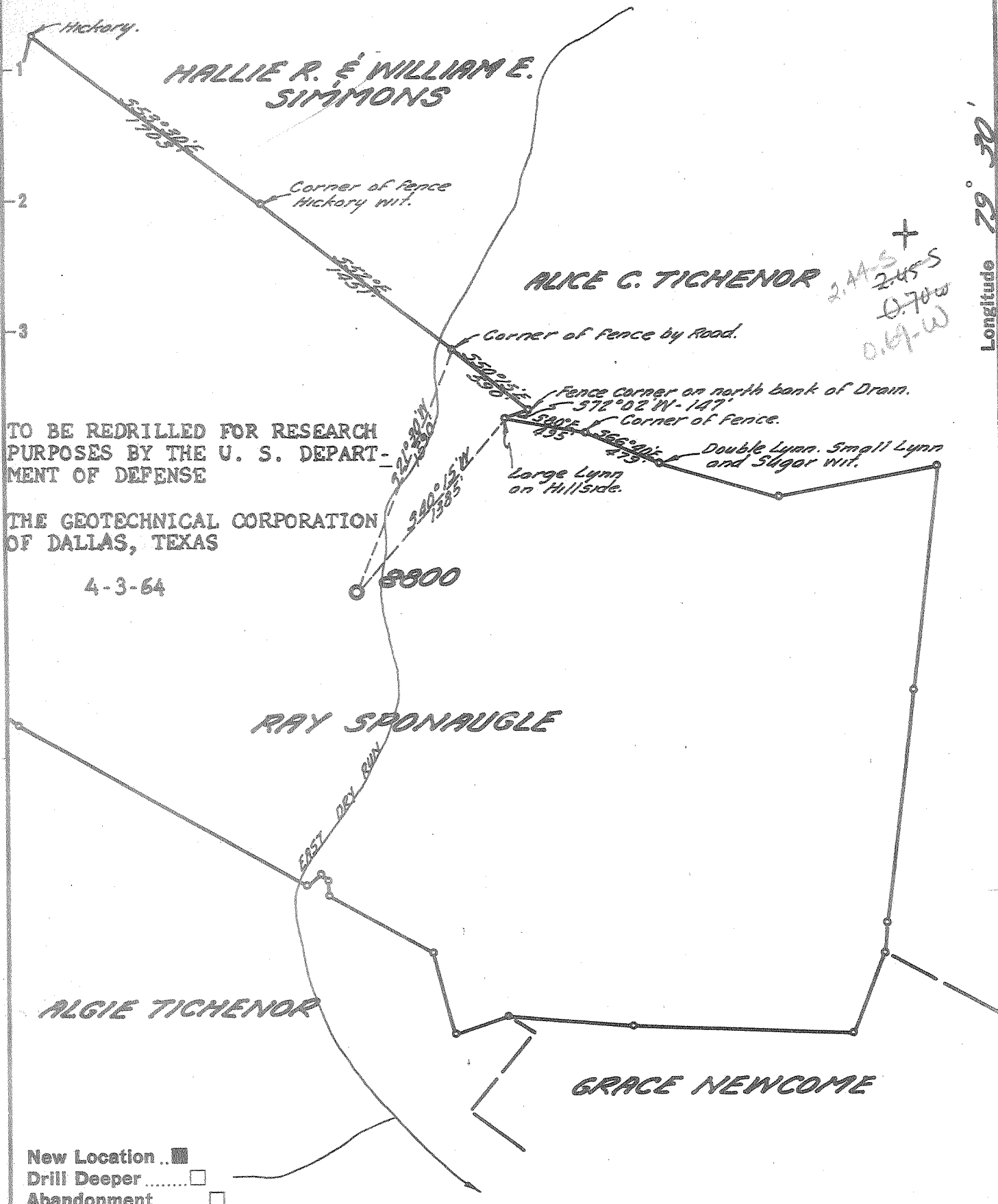
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP
FILE NO. PEN-6-REDRILL

+ 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° 35'

Longitude 79° 30'



TO BE REDRILLED FOR RESEARCH PURPOSES BY THE U. S. DEPARTMENT OF DEFENSE

THE GEOTECHNICAL CORPORATION OF DALLAS, TEXAS

4-3-64

8800

2.44 S
2.45 S
0.70 W
0.69 W

New Location

Drill Deeper

Abandonment

Company UNITED FUEL GAS CO.

Address CHARLESTON, W. VA.

Farm RAY SPONAUGLE

Tract _____ Acres 1295 Lease No. 54532

Well (Farm) No. 1 Serial No. 8800

Elevation (Spirit Level) 2984.67'

Quadrangle SPRUCE KNOB - SE

County PENDLETON District CIRCLEVILLE

Engineer Walter R. Howell

Engineer's Registration No. 2529

File No. 176-73 Drawing No. _____

Date 3-5-59 Scale 1" = 800'

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

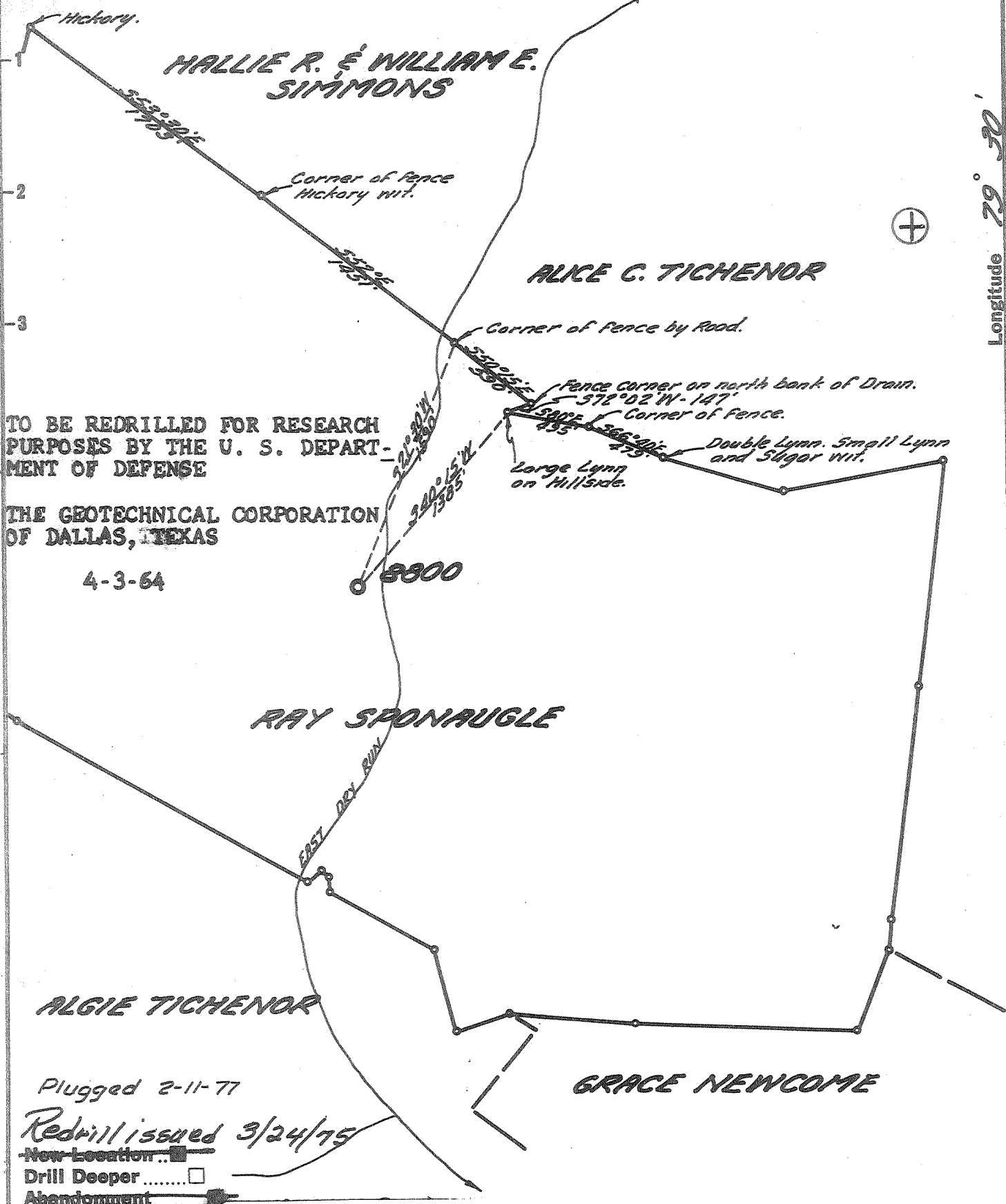
WELL LOCATION MAP
FILE NO. PEN-6-REDRILL

+ 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.

Deep Well ✓

100



TO BE REDRILLED FOR RESEARCH PURPOSES BY THE U. S. DEPARTMENT OF DEFENSE

THE GEOTECHNICAL CORPORATION OF DALLAS, TEXAS

4-3-64

8800

Plugged 2-11-77

Redrill issued 3/24/75

New Location
 Drill Deeper
 Abandonment

TELEDYNE GEOTECH

Company 3401 Shiloh Rd., Garland, Texas 75041
 Address

Farm RAY SPONAUGLE

Tract _____ Acres 1205 Lease No. 54532

Well (Farm) No. 1 Serial No. 8800

Elevation (Spirit Level) 2984.67'

Quadrangle SPRUCE KNOB SE

County PENDLETON District CIRCLEVILLE

Engineer *Walter A. Howell*

Engineer's Registration No. 2529

File No. 176-73 Drawing No. _____

Date 3-5-59 Scale 1" = 800'

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

WELL LOCATION MAP
 FILE NO. PEN-6-REDRILL

⊕ 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.

47-071



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Spruce Knob

Permit No. FEN-6

WELL RECORD

Oil or Gas Well Dry Hole
(KIND)

Company United Fuel Gas Company
Address P.O. Box 1273; Charleston 25, W. Va.
Farm Ray Sponaugle Acres 1245
Location (waters) East Dry Run
Well No. 8800-T Elev. 2984.67
District Circleville County Pendleton
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Ray Sponaugle
Cherry Grove, Address West Virginia
Drilling commenced 3-1-60
Drilling completed 7-15-60
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 _____
WELL FRACTURED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
10 26"	<u>30'</u>	<u>30'</u>	<u>cemented to surface</u>
8 20"	<u>46'</u>	<u>46'</u>	Kind of Packer " " "
10 13 3/8"	<u>398'</u>	<u>398'</u>	Size of " "
8 1/4"			Depth set " "
6 5/8"	<u>2710'</u>	<u>2710'</u>	
5 3/16"			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

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

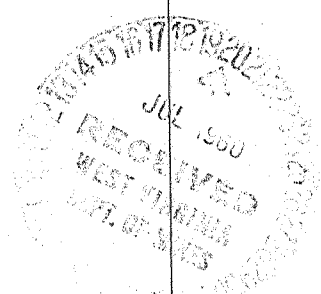
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

RESULT AFTER TREATMENT _____

ROCK PRESSURE AFTER TREATMENT _____

Fresh Water _____ Feet Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Lime & Shale			0	400			
Shaley Lime			400	850			
Limestone			850	1900			
Sandy Limestone			1900	2360			
Limestone			2360	2780			
Sandy Limestone			2780	3840			
Limestone			3840	5880			
Sandy Limestone			5880	6800			
Limestone			6800	8825			
Limestone & Shale			8825	10115			
Shale			10115	11540			
Limestone & Shale			11540	12245			
Limestone			12245	13001			
Total Depth			13,001'				



U-8800-T

Ray Sponaugle
United Fuel Gas Company
Circleville District, Pendleton County, W. Va.
Spruce Knob Topo.
Map Square - 176-73
Commenced Drlg. - 3-1-60
Completed Drlg. - 7-15-60
Elevation - 2984.67' Gr.
2998.85' R.K.B.

CASING:

<u>Size</u>	<u>Point</u>
26"	20'
20"	32'
13 3/8"	345'
9 5/8"	2710'

Trenton Limestone	0	1682
Beekmantown Dolomite	1682	4400
Conococheague Dolomite	4400	6810
747 Elbrook Dolomite - oldest	6810	10,035
Trenton Limestone	10,035	11,080
Martinsburg Shale	11,080	11,480
645 Trenton Limestone - deepest	11,480	13,001
Total Depth		13,001'

Fresh water	1682'
" "	2200'
" "	5935'
" "	6160'

Plugged and abandoned.

Samples are available at West Virginia Geological Survey, Morgantown, W. Va.

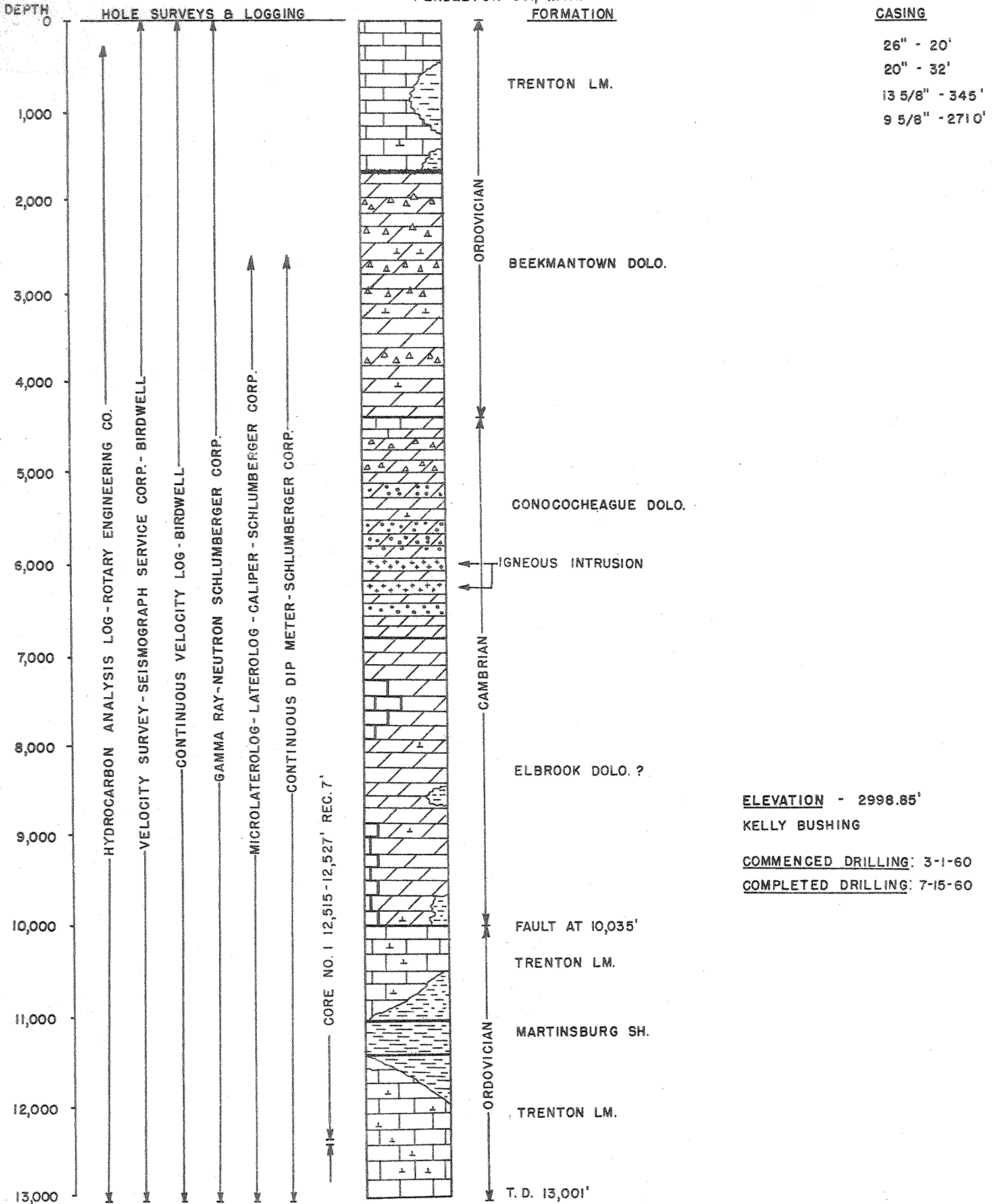
Electric Logs available at Appalachian Logging Service, Pittsburgh, Pa.

NOTE:

Igneous intrusion	5935	5976
Igneous intrusion	6160	6170

2999	13001
1682	1682
<hr/>	<hr/>
1317	11319

UNITED FUEL GAS CO. WELL 8800-T
 RAY SPONAUGLE 1
 PENDLETON CO., W.VA.





STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

MAR 24 1975

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

Surface Owner Ray Sponaugle
Address Cherry Grove, West Virginia
Mineral Owner Ray Sponaugle
Address Cherry Grove, West Virginia
Coal Owner Ray Sponaugle
Address Cherry Grove, West Virginia
Coal Operator None
Address _____

DATE March 19, 1975
Company Henderson Drilling, Inc., agt. for Teledyne Geotech, Garland, Texas
Address Petersburg, West Virginia
Farm Ray Sponaugle Acres 1245
Location (waters) East dry run
Well No. 1-Ray Sponaugle/8800-T Elevation 2984.67
District Circleville County Pendleton
Quadrangle Spruce Knob

INSPECTOR TO BE NOTIFIED
Paul Thomas
Buckhamer PH: 472-6418
W.Va.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for redrilling. This permit shall expire if operations have not commenced by 7-24-75.

Robert T. Jones
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated February 10 1975 by Ray and Pauline Sponaugle made to Teledyne Geotech, a corp., and recorded on the 1st day of March 1975 in Pendleton County, Book (Deed) 95 Page 238

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia, Henderson Drilling, Inc., agt. for Teledyne Geotech

Very truly yours,

(Sign Name) By: Evelyn Henderson
Well Operator

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

West Virginia Geological and Economic Survey
P. O. Box 879
Morgantown, W. Va. 26505
AC 304-296-4461

Address
of
Well Operator

Street
Petersburg,
City or Town
West Virginia
State

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BOND RE-DRILL

Per-6-Red PERMIT NUMBER

47-071

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO X REDRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Henderson Drilling, Inc. _____ NAME T. T. Henderson _____
 ADDRESS Petersburg, West Virginia _____ ADDRESS Petersburg, West Virginia _____
 TELEPHONE 257-9211 _____ TELEPHONE 257-9211 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 500 feet _____ ROTARY X _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: See original well record. _____
 TYPE OF WELL: OIL _____ GAS _____ COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER X _____

* Installation of seismic equipment.

TENTATIVE CASING PROGRAM: Casing already in well.

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8			
7			
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS See original well record. FEET _____ SALT WATER _____ FEET _____

APPROXIMATE COAL DEPTHS None _____

IS COAL BEING MINED IN THE AREA? No _____ BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title

1971-10-01