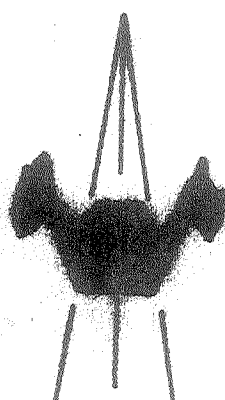
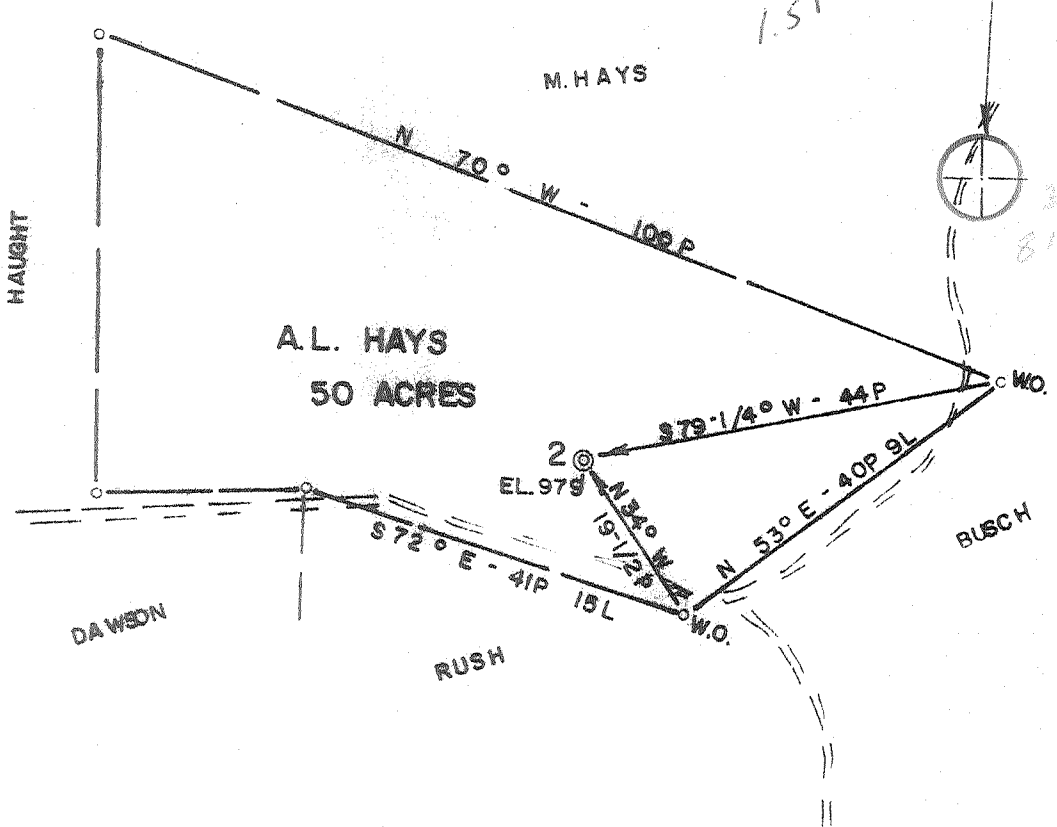


3.69 MILES
4.53 MI. W

Longitude 81° 05'



ACCURACY: 1P/200P

Source of Elevation ROAD INTERSECTION (1033')

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill

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 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Chet Waterman

Company NG. & C.T. BUSCH
 Address BROHARD, W.V.
 Farm A.L. HAYS
 Tract _____ Acres 50 Lease No. _____
 Well (Farm) No. 2 Serial No. _____
 Elevation (Spirit Level) 979
 Quadrangle HARRISVILLE SC
 County RITCHIE District MURPHY
 Engineer CHET WATERMAN
 Engineer's Registration No. 3788
 File No. 75003-281 Drawing No. _____
 Date 7/10/75 Scale 1" = 20P

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

WELL LOCATION MAP
 FILE NO. **RIT-3596-DD**

— 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.

47-085

2150 Ingon 6-6 Leather bark Creek (Freed) 125

JUL 28 1975



RECEIVED
SEP 27 1976

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Harrisville

Permit No. RIT-3596-DD

Rotary _____ Oil _____
Cable XX Gas XX
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Company N.G. & C. T. Busch
Address Brohard, W.Va. 26138
Farm A. L. Hays Acres 50
Location (waters) Dutchman Run
Well No. 2 Elev. 979'
District Murphy County Ritchie
The surface of tract is owned in fee by W.Va. Paper & Pulp
Address _____
Mineral rights are owned by A. L. Hays
Address _____
Drilling Commenced July 16, 1975
Drilling Completed July 1, 1976
Initial open flow _____ cu. ft. _____ bbls.
Final production 33m cu. ft. per day _____ bbls.
Well open 24 hrs. before test 100# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8 6 5/8	1489'	1489	
7			
5 1/2 5 1/2"	1928'	1928'	35 bgs. cement
4 1/2			
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Water Frac - 5-6-76 (5" casing, 2" tubing 5/8" Rods) Fractured - Injun 1972 - 1983?

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water 1815-1820 Feet
Producing Sand Injun Depth 1968' - 2030'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Original Drilling completed -			June 16, 1920	T.D. 1715'		
Maxon	Light	Hard	1715'	1848'	Salt Water - 1815 - 1820'	(6 B. per Hr.)
Little Lime		Medium	1848'	1862'		
Shale	Dark	Soft	1862'	1868'		
Big Lime	Light	Hard	1868'	1968'		
Injun Sand	Light	Medium	1968'	2030'	Gas - 1974-1983 (32/10 M.1")	
Completed				TD. 2072'	10/10 W. 1" Flow Meter (33M)	

2072
1715
357 new ft.

(over)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

JUL 15 1975

DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner W. Va. Paper & Pulp.
Address _____
Mineral Owner W. M. Hays Heirs
Address _____
Coal Owner None
Address _____
Coal Operator None
Address _____

DATE July 14, 1975
Company N. G. & C. T. Busch
Address Brohard, W. Va. 26138
Farm A. L. Hays Acres 50
Location (waters) /Dutchman Run
Well No. 2 Elevation 070
District Murphy County Ritchie
Quadrangle Harrisville

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 deepening. This permit shall expire if
operations have not commenced by 11-15-75.

Robert S. Hays
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Paul Goodnight
PH: 477-2455 ADDRESS Smithville, W. Va.

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having for
title granted or as the case may be) under grant or lease dated June 16, 1920 19 J. A. & A. M. Hays
Application made to W. R. Hays & A. G. Roberts recorded on the _____ day of _____
Ritchie County Book 44 Page 341

XXXX DEEPEN REBRILL REFRACURE OR STIMULATE
WELL ORIGINALLY DRILLED BEFORE JUNE 7, 1969.

This permit was prepared by a registered engineer or licensed land surveyor and all well owners and operators are notified.

All interested parties are hereby notified that any objection they wish to make, or any request for modification, must be received by, or filed with the Department of Mines, within ten (10) days.

Two copies of this proposed plan were mailed by registered mail, or delivered to the above named well operators at their respective addresses _____ day _____ before _____ on the _____ day of _____ and a copy to the Department of Mines at Charleston, West Virginia.

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

Very truly yours,
N. G. & C. T. Busch
BY: N. G. Busch
Address of Well Operator
Brohard,
W. Va. 26138

BOND DEEPEN

Pit-3596-00
47-085

THIS IS AN ESTIMATE ONLY

ALL INFORMATION WILL BE SUBMITTED ON OG - 1

PROJECT TO BE DRILLED TO DRILL DEEPER RE-DRILL
 OPERATING FACTOR (L. K. Rowan) RE-OPERATING
 NAME N. G. Busch NAME N. G. Busch
 ADDRESS Brohard, W. Va. 26138 ADDRESS Brohard, W. Va. 26138
 TELEPHONE 477-2846 TELEPHONE 477-2846
 DEPTH OF WELL TO BE DRILLED FEET 2150 DEPTH OF WELL TO BE DRILLED FEET 2150
 DEPTH OF WELL TO BE RE-OPERATED FEET DEPTH OF WELL TO BE RE-OPERATED FEET
 TYPE OF WELL OIL GAS COMB. COMB.
 RECYCLING WATER FLOOD OTHER

DEFINITIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 14			
9 - 5/8			
8 - 5/8			
7 - 5/8	1459'	1459'	<i>Cement To Surface</i>
5 - 7/8		1950'	30 Sacks
4 - 7/8			
3 - 7/8			Perf. Top
2 - 7/8			Perf. Bottom
1 3/4			Perf. Top
1 1/2			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS None
 IS COAL BEING MINED IN THE AREA? None 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:

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

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

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

This information is to be reported by the coal operator in the year-end report to the Coal Commission. The Coal Commission will file this information with the State Department of Energy and Mineral Resources. The Coal Commission will also file this information with the State Department of Environmental and Natural Resources. The Coal Commission will also file this information with the State Department of Health, Education and Welfare. The Coal Commission will also file this information with the State Department of Transportation. The Coal Commission will also file this information with the State Department of Public Safety. The Coal Commission will also file this information with the State Department of Social Services. The Coal Commission will also file this information with the State Department of State, Planning and Economic Development. The Coal Commission will also file this information with the State Department of Taxation. The Coal Commission will also file this information with the State Department of Veterans Affairs. The Coal Commission will also file this information with the State Department of Workforce and Community Development. The Coal Commission will also file this information with the State Department of Youth and Human Resources. The Coal Commission will also file this information with the State Department of Agriculture and Forestry. The Coal Commission will also file this information with the State Department of Conservation and Forestry. The Coal Commission will also file this information with the State Department of Parks and Recreation. The Coal Commission will also file this information with the State Department of Wildlife and Fisheries. The Coal Commission will also file this information with the State Department of Natural Resources. The Coal Commission will also file this information with the State Department of Environmental and Natural Resources. The Coal Commission will also file this information with the State Department of Health, Education and Welfare. The Coal Commission will also file this information with the State Department of Transportation. The Coal Commission will also file this information with the State Department of Public Safety. The Coal Commission will also file this information with the State Department of Social Services. The Coal Commission will also file this information with the State Department of State, Planning and Economic Development. The Coal Commission will also file this information with the State Department of Taxation. The Coal Commission will also file this information with the State Department of Veterans Affairs. The Coal Commission will also file this information with the State Department of Workforce and Community Development. The Coal Commission will also file this information with the State Department of Youth and Human Resources. The Coal Commission will also file this information with the State Department of Agriculture and Forestry. The Coal Commission will also file this information with the State Department of Conservation and Forestry. The Coal Commission will also file this information with the State Department of Parks and Recreation. The Coal Commission will also file this information with the State Department of Wildlife and Fisheries. The Coal Commission will also file this information with the State Department of Natural Resources.