



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

APR 2 - 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES.

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

RECEIVED

JUN - 3 1982

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

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

DATE March 3, 1982

Surface Owner Lucile M. Mullenix
Address Pullman, W.Va.
Mineral Owner Alval L. Zinn etal.
Address _____
Coal Owner _____
Address _____
Coal Operator _____
Address _____

Company Carnegie Natural Gas Company
Address 3904 Main St. Munhall, Pa. 15120
Farm D. P. Mullenix Acres 72
Location (waters) Drain to Straight Fork
Well No. 2-1865 Elevation 1145'
District Union County Ritchie
Quadrangle Pullman

**THIS PERMIT MUST BE POSTED AT THE WELL SITE.
ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY
APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE
IF OPERATIONS HAVE NOT COMMENCED BY 2-8-83**

INSPECTOR Doe Maze
TO BE NOTIFIED
ADDRESS _____
PHONE 655-7398

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 July 1, 19 18 by D. P. Mullenix made to Carnegie Natural Gas Company and recorded on the 27th. day of September 19 18, in Ritchie County, Book 41 Page 242

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.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Very truly yours, Carnegie Natural Gas Company
(Sign Name) W. S. Yako
Well Operator
Address 3904 Main Street,
Street
of Munhall, Pa. 15120
Well Operator City or Town
State 04/19/2024

*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.

BLANKET BOND

47-085-5676

PERMIT NUMBER

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

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Hugh K. Spencer NAME W. L. Yoho - Div. Supt.
 ADDRESS West Union, W.Va. 26456 ADDRESS Toll Gate, W.Va. 26442
 TELEPHONE 873-1602 TELEPHONE 659-2921
 ESTIMATED DEPTH OF COMPLETED WELL: 5250' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Alexander
 TYPE OF WELL: OIL _____ GAS X COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10 <u> 11-3/4" </u>	<u> 330' </u>	<u> 330' </u>	<u> CTS </u>
9 - 5/8			
8 - 5/8	<u> 1975' </u>	<u> 1975' </u>	<u> Cemented to surface </u>
7			
5 1/2			
4 1/2	<u> 5250' </u>	<u> 5250' </u>	<u> 2500' to fillup </u>
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 295 FEET SALT WATER 345 FEET
 APPROXIMATE COAL DEPTHS _____
 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.


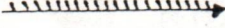
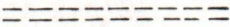









We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

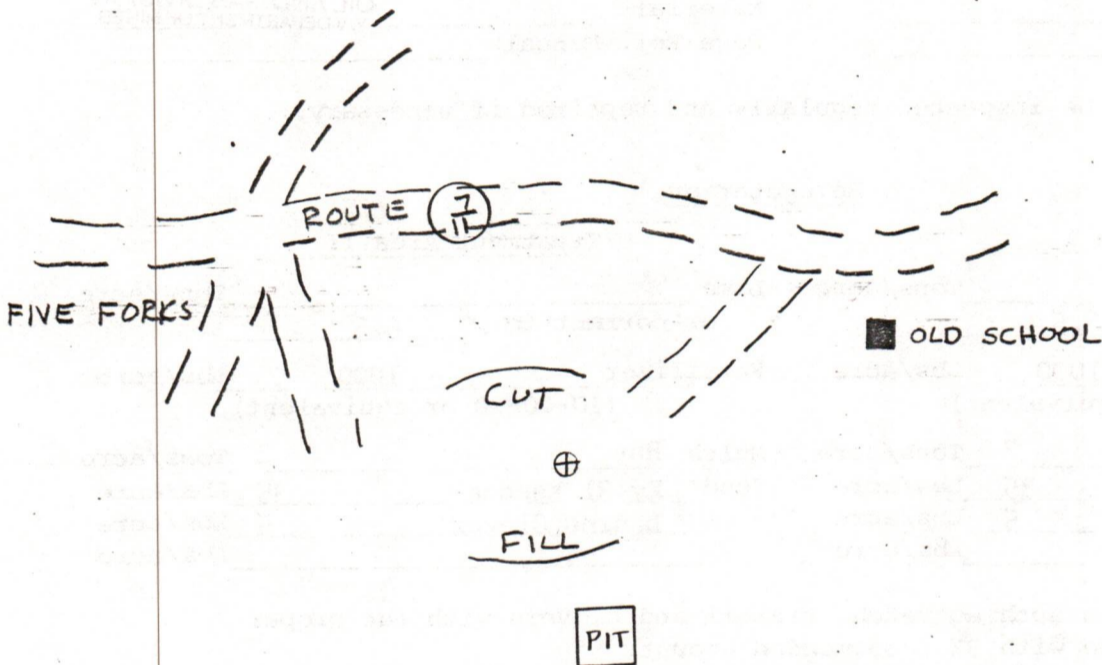
Official Title

04/19/2024

WELL SITE PLAN

Legent:	Property Boundry 	Diversion 
	Road 	Spring 
	Existing Fence 	Wet Spot 
	Planned Fence 	Building 
	Stream 	Drain Pipe 
	Open Ditch 	Waterway 

Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with first part of this plan. Include all natural drainage.



COMMENTS: Clean up existing farm road and use as access road. Road will be maintained after well is drilled.

Signature M. L. yako Address Toll Gate, WV, 26442
 Phone Number 304-659-2921

Please request landowners cooperation to protect new seeding for one growing season.

04/19/2024

STATE OF WEST VIRGINIA
OFFICE OF OIL & GAS

Company Name Carnegie Natural Gas
Address 3904 Main St., Munhall, PA 15120
Telephone 412-462-7121

Designated Agent W.L. Yoho, Div. Supt.
Address Toll Gate, WV 26142
Telephone 304-659-2921

Landowner Lucille M. Mullenix

Soil Cons. District Little Kanawha

Revegetation to be carried out by Same W. L. Yoho (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections
and additions become a part of this plan 3-17-82 Jarrett Newton
(State) (SCD Agent)

Access Road NONE
Structure NONE (A)
Spacing _____
Page Ref. Manual JUN 3 1982

Location _____
Structure NONE (1)
Material _____
Page Ref. Manual _____

Structure _____
Spacing _____
Page Ref. Manual _____

Structure _____ (2)
Material _____
Page Ref. Manual APR 2 - 1982

Structure _____ (C)
Spacing _____
Page Ref. Manual _____

Structure _____ (3)
Material _____
Page Ref. Manual _____

All structures should be inspected regularly and repaired if necessary.

Revegetation

Treatment Area I

Treatment Area II

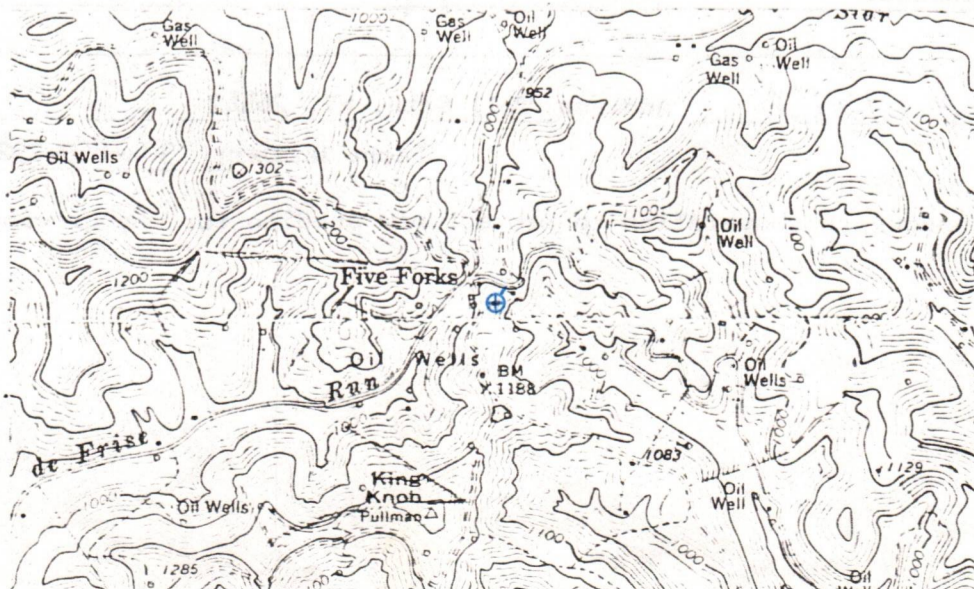
Lime _____ Tons/acre
or correct to pH 6.5
Fertilizer 1000 Lbs/acre
(10-20-20 or equivalent)
Mulch Hay 2 Tons/acre
Seed* Ky 31 Fescue 35 Lbs/acre
Ladino Clover 5 Lbs/acre
Lbs/acre

Lime _____ Tons/acre
or correct to pH 6.5
Fertilizer 1000 Lbs/acre
(10-20-20 or equivalent)
Mulch Hay 2 Tons/acre
Seed* Ky 31 Fescue 35 Lbs/acre
Ladino Clover 5 Lbs/acre
Lbs/acre

* Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

Attach or photocopy section of involved Topographic map. Quadrangle Pullman

Legend:  Well Site
 Access Road



04/19/2024

a-10

ROBERT E. SCHMIDT, P.E.
FAIRMONT
President
ROBERT B. SCOTT, P.E.
ELKINS
DR. A.E. McCASKEY, P.E.
HUNTINGTON
DR. KENNETH H. MEANS, P.E.
MORGANTOWN
STAFFORD E. THORNTON, P.E.
MONTGOMERY
Secretary



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

RECEIVED

608 Union Building
Charleston, W.Va. 25301
TELEPHONE 343-3554

Temporary Permit No. 82-7

JUN - 3 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

To: Duane R. Dishong
Carnegie Natural Gas Co.
3904 Main St.
Munhall, PA 15120

P.E. No. 027468E

Light Copy

The West Virginia State Board of Registration for Professional Engineers, having verified your current registration in Pennsylvania does hereby authorize you to practice engineering in West Virginia for the duration your application is pending with this Board. Temporary permits are issued in accordance with Chapter 30, Article 13, Section 8 (b).

You may use your Pennsylvania seal and beneath your signature print:

"Authorized for use in
West Virginia by Temporary
Permit No. 82-7."

This authorization issued May 25, 1982.

By:

Stafford E. Thornton
Secretary

04/19/2024

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Date	Perf.	Sacks Sand	Bbls. Fluid	Bbls. Acid
9-23-82	4517' - 5162'	550	559	14
9-23-82	2864' - 3435'	550	601	17

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Clay		Red	0	15	
Shale		Gray	15	55	
Sand		White	55	115	
Sandy Shale		Gray	115	140	
Shale		Grey	140	150	
Sand		Gray	150	184	
R. R. & Shale		Red	184	203	
Sand		Gray	203	340	
Shale		Gray	340	405	
Red Rock		Red	405	412	
Shale		Gray	412	592	
Sandy Shale		Gray	592	806	
Shale & Red Rock		Gray	806	931	
Sand		Gray	931	1024	
Red Roak & Shale		Red & Gray	1024	1056	
Sandy Shale		Gray	1056	1300	
Sand		White	1300	1617	
Coal		Black	1617	1620	
Sand		Gray	1620	1895	
Lime & Sand		Gray	1895	1937	
Shale		Black & Gray	1937	1940	
Lime & Sand		Gray	1940	2081	
Sandy Shale		Gray	2081	2123	
Shale		Gray	2123	2680	
Sand		Gray	2680	2770	
Shale		Gray	2770	2795	
Sand		Gray	2795	2830	
Shale		Gray	2830	2940	
Sandy Shale		Gray	2940	2990	
Shale		Gray	2990	3010	
Sand		Gray	3010	3050	
Shale		Gray	3050	4250	
Sand		Gray	4250	4370	
Shale		Gray	4370	4470	
Sand		Gray	4470q	4680	
Shale		Gray	4680	4888	
Sand		Gray	4888	4928	
Shale		Gray	4928	5220	

T.D.

5220'
(Attach separate sheets as necessary)

Carnegie Natural Gas Company
Well Operator

By: *ABunnell*

Dist. Foreman
04/19/2024

Date: January 7, 1983

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

RECEIVED



STATE

IV-35 (Rev 8-81)

FEB 24 1983 OIL AND GAS DIVISION WV DEPARTMENT OF MINES

State of West Virginia Department of Mines Oil and Gas Division

Date January 7, 1983 Operator's Well No. 2-1865 Farm D. P. Mullenix API No. 47-085-5676

WELL OPERATOR'S REPORT OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas x / Liquid Injection / Waste Disposal / (If "Gas," Production X / Underground Storage / Deep / Shallow x /)

LOCATION: Elevation: 1145' Watershed Straight Fork District: Union County Ritchie Quadrangle Holbrook N.W.

COMPANY Carnegie Natural Gas Company ADDRESS 800 Regis Ave. Pittsburgh, Pa. 15236 DESIGNATED AGENT W. L. Yoho ADDRESS Toll Gate, W.Va. 26142 SURFACE OWNER Lucille M. Mullenix ADDRESS Pullman, W.Va. MINERAL RIGHTS OWNER Ava L. Zinn etal. ADDRESS OIL AND GAS INSPECTOR FOR THIS WORK Sam Hershman ADDRESS Smithville, W.Va. PERMIT ISSUED April 2, 1982 DRILLING COMMENCED August 16, 1982 DRILLING COMPLETED August 23, 1982 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up ft. Rows include sizes 20-16, 11-3/4, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Alexander Depth 5250' feet Depth of completed well 5220' feet Rotary x / Cable Tools Water strata depth: Fresh Salt Coal seam depths: Is coal being mined in the area? No

OPEN FLOW DATA Producing formation Fourth Alexander, Riley, Warren, Pay zone depth 2864'-5162' feet Gas: Initial open flow 18 Mcf/d Oil: Initial open flow Final open flow 146 Mcf/d Final open flow Time of open flow between initial and final tests Static rock pressure 975 psig (surface measurement) after 72 hours shut in (If applicable due to multiple completion--)

Second producing formation Pay zone depth 04/19/2024 feet Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d Final open flow Mcf/d Oil: Final open flow Bbl/d Time of open flow between initial and final tests hours Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

RIT - 5676

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
FINAL INSPECTION REQUEST
INSPECTOR'S COMPLIANCE REPORT

RECEIVED
 SEP 23 1983

OIL & GAS DIVISION
 DEPT. OF MINES

Permit No. 085-5676 County Ritchie
 Company Chenevige Nat Gas Co. Farm D.P. Mullen's
 Inspector MIKE UNDERWOOD Well No. 2-1065
 Date 9-15-83

RULE	DESCRIPTION	IN COMPLIANCE	
		Yes	No
23.06	Notification Prior to starting Work	_____	_____
25.04	Prepared before Drilling to prevent waste	_____	_____
25.03	High-Pressure Drilling	_____	_____
16.01	Required Permits at wellsite	_____	_____
15.03	Adequate Fresh Water Casing	_____	_____
15.02	Adequate Coal Casing	_____	_____
15.01	Adequate Production Casing	_____	_____
15.04	Adequate Cement Strength	_____	_____
23.02	Maintained Access Roads	_____	_____
25.01	Necessary Equipment to prevent Waste	_____	_____
23.03	Reclaimed Drilling Site	_____	_____
23.04	Reclaimed Drilling Pits	_____	_____
23.05	No surface or underground Pollution	_____	_____
7.03	Identification Markings	_____	_____

COMMENTS: Final inspection O.K. Release.

I have inspected the above well and (HAVE/HAVE NOT) found it to be in compliance with all of the rules and regulations of the Office of Oil and Gas Department of Mines of the State of West Virginia.

SIGNED: Mike Underwood
 DATE: 9-15-83

04/19/2024



State of West Virginia
 Department of Mines
 Oil and Gas Division
 Charleston 25305

WALTER N. MILLER
 DIRECTOR

THEODORE M. STREIT
 ADMINISTRATOR

October 7, 1983

Carnegie Natural Gas Company
 800 Regis Avenue
 Pittsburgh, Pa. 15236

Gentlemen:

The required records and reports have been received in this office and the District Inspectors have submitted FINAL INSPECTIONS for the following wells listed below:

<u>PERMIT NUMBER</u>	<u>FARM AND WELL NUMBER</u>	<u>DISTRICT</u>
RIT-4873	Mitilda Donaho, et al, #3-1838	Union
RIT-5172	Hiram Smith, #3-1846	Union
RIT-5674	J. B. Ballah, #2-1863	Union
RIT-5676	D. P. Mullenix, #2-1865	Union
RIT-5777	R. L. Drane, #1-1875	Union
WET-1235	John Mills, #3-1853	Green

In accordance with Chapter 22, Article 4, Section 2, the above captioned wells will remain under bond coverage for "life of wells." Reclamation requirements have been approved.....

Very truly yours,

Theodore M. Streit, Administrator
 Office of Oil & Gas-Dept. Mines

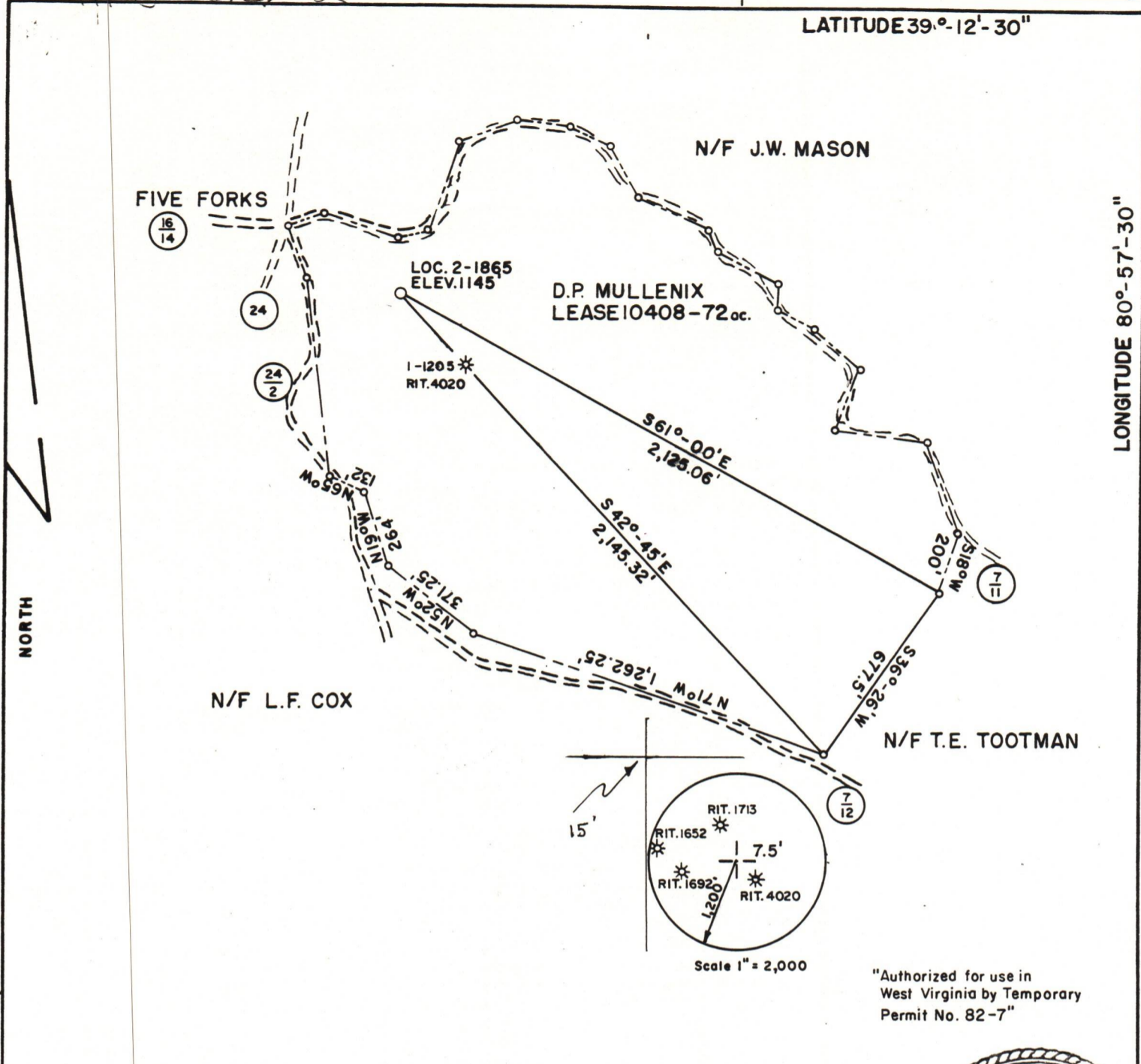
TMS/

04/19/2024

M.J. 6/5/82

5,500'
LATITUDE 39°-12'-30"

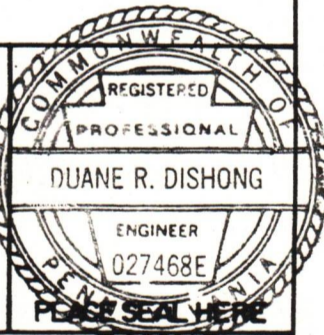
LONGITUDE 80°-57'-30"



"Authorized for use in West Virginia by Temporary Permit No. 82-7"

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1' IN 200'
PROVEN SOURCE OF ELEVATION B.M. ALONG CO. ROAD
24/2 ELEV. = 1188'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
(SIGNED) Duane R. Dishong
R.P.E. 027468 E L.L.S. _____



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
FORM IV-6 (8-78)



DATE FEB. 11, 19 32
OPERATOR'S WELL NO. 2-1865
API WELL NO. _____
STATE 47 COUNTY 085 PERMIT 5676

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1145' WATER SHED DRAIN TO STRAIGHT FORK
DISTRICT UNION _____ COUNTY RITCHIE
QUADRANGLE PULLMAN
SURFACE OWNER LUCILLE M. MULLENIX ACREAGE 72
OIL & GAS ROYALTY OWNER AVA L. ZINN et. al. LEASE ACREAGE 72 04/19/2024
LEASE NO. 10408
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5250'
WELL OPERATOR CARNEGIE NATURAL GAS CO. DESIGNATED AGENT W.L. YOHO, SUPERINTENDENT
ADDRESS 3904 MAIN STREET ADDRESS CARNEGIE NATURAL GAS CO.
MUNHALL, PA. 15120 TOLL GATE, W.VA. 26442