



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED
MAY 11 1981

OIL AND GAS WELL PERMIT APPLICATION
OIL AND GAS DIVISION
DEPT. OF MINES

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

DATE April 30, 1981
Company Tyrone Energy, Inc.
Address 420 Buckhannon Pike, Clarksburg, WV
Farm Roy A. Howes Acres 281.06
Location (waters) Brook Run
Well No. One (1) Elevation 2429
District Roaring Creek County Randolph
Quadrangle Ellamore

Surface Owner Roy A. Howes
Address Kingsville Rd. Belington, WV
Mineral Owner J. J. LaRosa
Address 420 Buckhannon Pike, Clarksburg, WV
Coal Owner J. J. LaRosa
Address 420 Buckhannon Pike, Clarksburg, WV
Coal Operator None
Address _____

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 drilling. This permit shall expire if operations have not commenced by 1-14-82.

INSPECTOR
TO BE NOTIFIED Robert S. Stewart
ADDRESS P.O. Box 345, Jane Lew, WV 26378
PHONE 884-7782

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 June 10 1976 by Ruth Woods Dayton, Widow made to James Joseph LaRosa and recorded on the 24 day of January 1977, in Randolph County, Book 305 Page 629
 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:

Very truly yours, Tyrone Energy, Inc.
(Sign Name) Tyrone Energy, Inc.
Well Operator

OFFICE OF OIL AND GAS
1615 Washington Street, East
Charleston, West Virginia
Area Code 304 -348-3092 348-3096

Address 420 Buckhannon Pike
of Nutter Fort
Well Operator Nutter Fort
City or Town
WV 26301
State

03/15/2024

*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

47-083-0468 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by Tyrone Energy, Inc.

File

**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 Unknown _____ NAME Rodger Stevens _____
 ADDRESS _____ ADDRESS 420 Buckhannon Pike, Nutter Fort, WV _____
 TELEPHONE _____ TELEPHONE 304-623-6751 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 5550 _____ ROTARY X _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Elk _____
 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	30'	30'	Circulate
9 - 5/8			
8 - 5/8	1400'	1400'	Circulate
7			
5 1/2			
4 1/2	--	5450	<u>545 Sacks</u>
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 50 FEET _____ SALT WATER 508 FEET _____
 APPROXIMATE COAL DEPTHS 30 120 _____
 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.

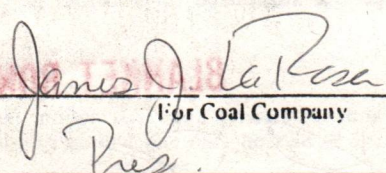
OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

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 James J. LaRosa Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location. 03/15/2024

We the James J. LaRosa 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
 Pres.

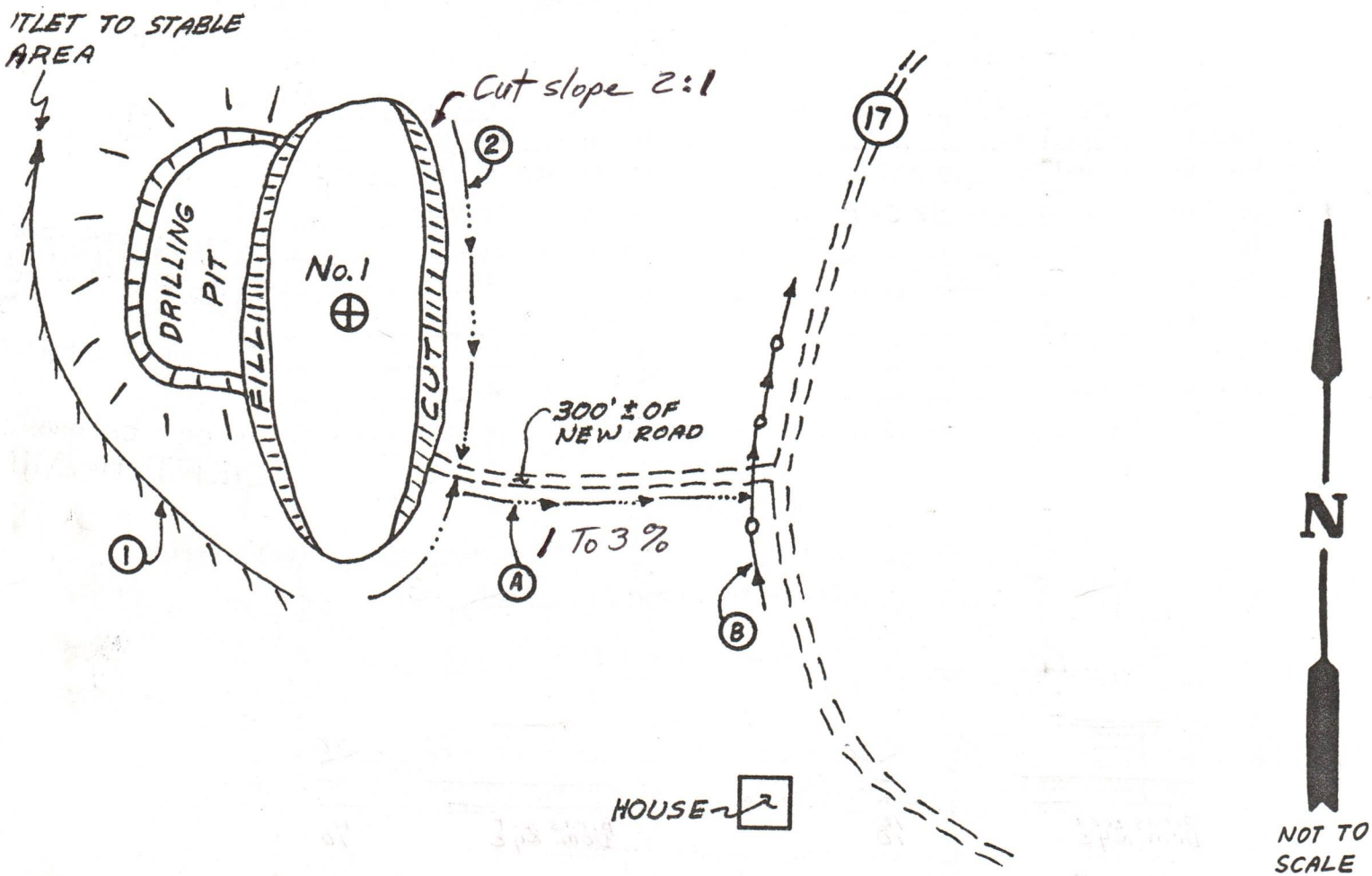
 Official Title

Well Site Plan

Legend: Property Boundary Road Existing Fence Planned Fence Stream Open Ditch

Diversion Spring Wet Spot Building Drain Pipe 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: The brush and timber will be cut and removed from the road area and well site before earth work begins in accordance with applicable state regulations. As the road and well site are brought to desired grade, the erosion control structures will be installed in conjunction with these operations. Under most conditions, this plan will be followed; however, due to lease restrictions, surface owner requests, weather conditions, etc., this plan may need to be altered. Subsequently, the proper erosion and sediment control measures will be installed in conjunction with these changes. The road and well site will be located in a flat area just off State Route 17.

Roadbanks & Backslopes Cut 2:1

03/15/2024

Signature:

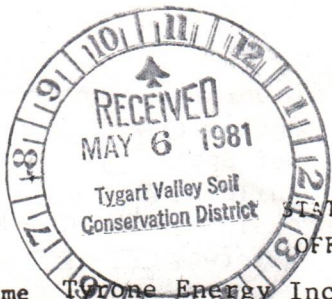
420 Buckhannon Pike, Clarksburg, WV 26301 (304)623-6751

Roger Stevens

Address

Phone Number

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



Date April 29, 1981
 Well No. Tyrone No. 1
 API No. 47 - 083 - 0468 - Rev.
 State County Permit

STATE OF WEST VIRGINIA
 OFFICE OF OIL AND GAS

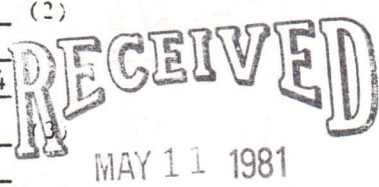
Company Name Tyrone Energy Inc. Designated Agent Roger Stevens
 Address 420 Buckhannon Pike, Clarksburg, WV 26301 Telephone (304)623-6751
 Landowner Tyrone Energy Inc. Soil Cons. District Tygart Valley

Revegetation to be carried out by Roger Stevens (Agent)

This plan has been reviewed by Tygart Valley SCD. All corrections and additions become a part of this plan.

5-9-81 (Date) [Signature] (SCD Agent)

Access Road	Location
Structure <u>Open Ditch</u> (A)	Structure <u>Diversion</u> (1)
Spacing <u>As Shown</u>	Material <u>Earth</u>
Page Ref. Manual <u>1:11 to 1:14</u>	Page Ref. Manual <u>1:9 to 1:11</u>
Structure <u>Drain Pipe 12" CMP</u> (B)	Structure <u>Interceptor Ditch</u> (2)
Spacing <u>As Shown</u>	Material <u>Earth</u>
Page Ref. Manual <u>1:7 to 1:8</u>	Page Ref. Manual <u>1:11 to 1:14</u>
Structure _____ (C)	Structure _____
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____



All structures should be inspected regularly and repaired if necessary.

OIL & GAS DIVISION
 DEPT. OF MINES

Revegetation

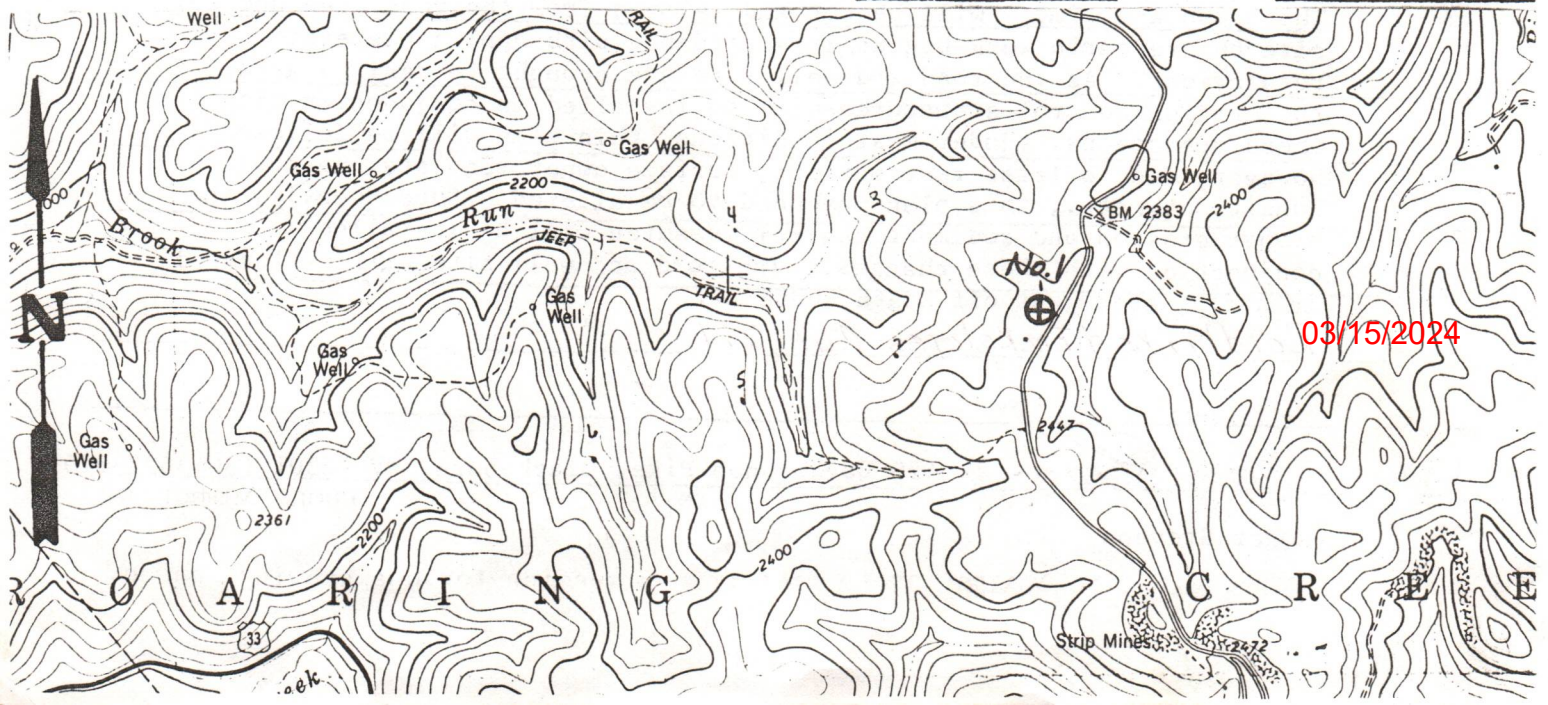
Treatment Area I (Road)	Treatment Area II (Well Site)
Lime <u>2.0 3</u> Tons/acre or correct to pH <u>6.5</u>	Lime <u>2.0 3</u> Tons/Acre or correct to pH <u>6.5</u>
Fertilizer <u>600</u> lbs/acre (10-20-20 or equivalent)	Fertilizer <u>600</u> lbs/acre (10-20-20 or equivalent)
Mulch <u>1.5 to 2.0</u> Tons/Acre	Mulch <u>1.5 to 2.0</u> Tons/Acre
Seed* <u>Ky 31 Tall Fescue 40 30</u> lbs/acre	Seed* <u>Ky 31 Tall Fescue 40</u> lbs/acre
<u>Ladino Clover 4</u> lbs/acre	<u>Ladino Clover 4</u> lbs/acre
<u>Spring Wheat 100</u> lbs/acre	<u>Spring Wheat 100</u> lbs/acre
<u>Birds Foot Dom. Rye 18</u>	<u>Birds Foot Dom. Rye 18</u>

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

All structures will be inspected and repaired when necessary. All commercial timber is to be cut and stacked. All brush and small timber is to be cut and removed from the site before the dirt work begins.

Attach or photocopy section of involved Topographic map. U.S.G.S. Topo Map Quadrangle Ellamore 7.5 min. (197

Legend: Well Site Farm: Roy A. Howes County: Randolph
 Access Road District: Roaring Creek Scale: 1" = 2000'



**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 Unknown _____ NAME Kenneth E. Reese _____
 ADDRESS _____ ADDRESS 420 Buckhannon Pike, Nutter Fort _____
 TELEPHONE _____ TELEPHONE (304) 623-6751 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 5550 _____ ROTARY X _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Elk _____
 TYPE OF WELL: OIL _____ GAS X _____ COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING:	LIFT IN WFLI.	CEMENT (HLL UP OR SACKS - CUBIC FT)
20 - 16			
13 - 10	30'	30'	Circulate
9 - 5/8			
8 - 5/8	1400'	1400'	Circulate
7			
5 1/2			
4 1/2		5450	545 Sacks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 50 FEET _____ SALT WATER 508 FEET _____
 APPROXIMATE COAL DEPTHS 30 120 _____
 IS COAL BEING MINED IN THE AREA? _____ BY WHOM? _____

TO DRILL:

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

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND 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 two (2) hours in advance.

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

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

We the James J. LaRosa 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.

James J. LaRosa
 For Coal Company
 President
 Official Title

03/15/2024



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

JAN 13 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE January 12, 1982
Company Tyrone Energy, Inc.
Address 420 Buckhannon Pike, Clarksburg, WV
Farm Roy A. Howes Acres 281.06
Location (waters) Brooks Run
Well No. One (1) Elevation 2429
District Roaring Creek County Randolph
Quadrangle Ellamore

Surface Owner Roy A. Howes
Address Kingsville Rd., Belington, WV
Mineral Owner J. J. LaRosa
Address 420 Buckhannon Pike, Clarksburg, WV
Coal Owner J.J. LaRosa
Address 420 Buckhannon Pike, Clarksburg, WV
Coal Operator None
Address _____

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 drilling renewed. This permit shall expire if operations have not commenced by 9-18-82.

Fred Burdett
Deputy Director - Oil & Gas Division

INSPECTOR
TO BE NOTIFIED Robert S. Stewart
ADDRESS P.O. Box 345, Jane Lew, WV 26378
PHONE 884-7782

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having title thereto, (or as the case may be) under grant or lease dated June 10 1976 by Ruth Woods Dayton Widow made to James Joseph LaRosa and recorded on the 24 day of January 1977 in Randolph County, Book 305 Page 629
 NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULA
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 owners or coal owners at their above shown respective address _____ day _____ before, or on 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:

OFFICE OF OIL AND GAS
1615 Washington Street, East
Charleston, West Virginia
Area Code 304 -348-3092 348-3096

Address
of
Well Operator

Very truly yours, Henry E. Reese
(Sign Name) Tyrone Energy, Inc.
Well Operator
420 Buckhannon Pike
Street
Nutter Fort
City or Town
WV 26301
State

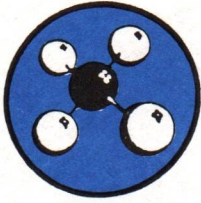
*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit for the filing of such plat, that no objections 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

47-083-0468 -REN. PERMIT NUM

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."
Signed by Henry E. Reese

03/15/2024



Hydrocarbon Energies, Inc.

PETROLEUM CONSULTING
COMPLETION — PRODUCTION — WELL OPERATING

Route 4, Box 444
BUCKHANNON, WEST VIRGINIA 26201

March 29, 1982

Mr. Thomas E. Huzzey, Commissioner
1615 Washington Street, East
Charleston, West Virginia 25311

Dear Mr. Hussey:

Pursuant to our conversation on March 22nd you will find the revised
plats for Tyrone Energy, Inc. well #1 (47-083-0468) and well #2 (47-083-0469)

The plats show locations of the old permitted well and the distance to
the new well.

Please feel free to call if there is any other information needed.
Thank you very much for your co-operation.

Yours Truly,

Alvin Sorcan

Alvin Sorcan
President

Enclosure

Re: 470830469

In our conversation you stated the location
would not be changed because of the error
in surveying the property. The revised plat received
with your letter dated 3/29/82 does not
confirm the "no change".

You are ordered to cease operations at this
location until an appropriate permit has been
approved.

JRH
Called 4/15/82
will have surveyor
call and explain to go
marks
walter Sept called
Mike
understand
believe
the problem
if you ignore plat No 2
(revised)
fit together the other two
only the surveyed and show
200'

RECEIVED

MAR 31 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

(304) 472-9600

03/15/2024

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

Formation	Perfs	Holes	BRKD	Sand	AV. PSI	AV. Rt.	Fluid	ISIP
Haverty	4971-4995	14	3450	69,000	2700	28	565	1450
Benson	3792-3802	12	3000	69,000	2300	29	555	950

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand	W	H	1150	1325	H ₂ O @ 35
Big Lime	G	H	1325	1395	Coal @ 152 & 370
Big Injun	W	H	1395	1585	
Shale	G	S	1585	1605	
Sand	W	H	1605	1705	
Shale & Silt	G	S	1705	1970	
Sand	W	H	1970	2295	
Shale	G	S	2295	3095	
Siltstone	Br	M	3095	3785	
Benson	Br	M	3785	3815	Smell @ 3800
Siltston	Br	M	3815	4945	
Elk	Br	M	4945	5030	Show @ 4995
Shale	G	S	5030	5486	
TD				5486	

(Attach separate sheets as necessary)

Tyroc Energy, Inc.
Well Operator

By: Adrian Sorenson, Consultant 03/15/2024
Date: 4/28/22

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."



IV-35
(Rev 8-81)

Date April 7, 1982
Operator's
Well No. #1
Farm Roy Howes
API No. 47 - 083 - 0468

RECEIVED State of West Virginia
Department of Mines
Oil and Gas Division

MAY - 6 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES
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: 2416 Watershed Brook Run
District: Roaring Creek County Randolph Quadrangle Ellamore 7 1/2

COMPANY Tyrone Energy Inc.
ADDRESS 420 Buckhannon Pike, Clarksburg, WV
DESIGNATED AGENT Roger Stevens
ADDRESS 420 Buckhannon Pike, Clarksburg, WV
SURFACE OWNER Roy Howes
ADDRESS Kingsville Rd. Belington, WV
MINERAL RIGHTS OWNER J. J. LaRose
ADDRESS 420 Buckhannon Pike, Clarksburg, WV
OIL AND GAS INSPECTOR FOR THIS WORK Robert Stewart
ADDRESS PO Box 345, Jane Lew
PERMIT ISSUED January 15, 1982
DRILLING COMMENCED March 18, 1982
DRILLING COMPLETED March 24, 1982

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8		1113	250
7			
5 1/2			
4 1/2		5149	580
3			1800-5150
2			
Liners used			

GEOLOGICAL TARGET FORMATION Elk Depth 5117 feet
Depth of completed well 5486 feet Rotary X / Cable Tools
Water strata depth: Fresh 35 feet; Salt feet
Coal seam depths: 152 370 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Elk Pay zone depth 4971-4995 feet
Gas: Initial open flow show Mcf/d Oil: Initial open flow None Bbl/d
Final open flow 340 Mcf/d Final open flow None Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1250 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)
Second producing formation Benson Pay zone depth 3792-3802 feet
Gas: Initial open flow Small Mcf/d Oil: Initial open flow None Bbl/d
Final open flow 340 Mcf/d Oil: Final open flow None Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1250 psig (surface measurement) after 72 hours shut in

(Continue on reverse side)

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

RECEIVED

MAR 17 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 083-0468-0469-0470-0471-0472-0476

Oil or Gas Well _____
(KIND)

Company JYRONE ENERGY

Address CLARKSBURG

Farm L.L. MOSS -
Howes MOSS

Well No. 1-2 3-4-5-6

District POARWING CREEK County RANDOLPH

Drilling commenced _____

Drilling completed _____ Total depth _____

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names _____

Remarks: CHECK LOCATIONS WITH SES & CO CHANGE ROADS TO PREVENT UNDUCE DAMAGE WILL SUBMIT NEW PLANS

3-15-82

03/15/2024 511
Robert Stewart

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner		Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

_____ I hereby certify I visited the above well on this date.

DATE

03/15/2024

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

RECEIVED

MAR 22 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 083-0468

Oil or Gas Well GAS
(KIND)

Company <u>Tyrove Energy</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>CLARKSBURG</u>	Size			
Farm <u>ROY HOWES</u>	16			Kind of Packer
Well No. <u>#1</u>	13			
District <u>BOARING CREEK</u> County <u>RAIDOLPH</u>	10			Size of
Drilling commenced <u>3-18-82</u>	8 1/4			Depth set
Drilling completed _____ Total depth _____	6 5/8			
Date shot _____ Depth of shot _____	5 3/16			Perf. top
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top
Volume _____ Cu. Ft.	Liners Used			Perf. bottom
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names PETROLEUM EASTERN

Remarks: move Rig SPD

3-18-82

Robert Stewart

03/15/2024

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner	Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING	
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

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

RECEIVED

SEP 29 1982

INSPECTOR'S WELL REPORT

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Permit No. 083-0468

Oil or Gas Well GAS
(KIND)

Company Tyrone Energy
 Address CLARKSBURG
 Farm Roy Howes
 Well No. #1
 District BOARING CREEK County RANDOLPH
 Drilling commenced 3-82
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			Kind of Packer
16			
13			
10			Size of
8 1/4			
6 5/8			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
 NAME OF SERVICE COMPANY _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names _____

Remarks: O.K. To Release

9-27-82
DATE

Robert Stewart 51
03/15/2024
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner	Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

DATE _____ I hereby certify I visited the above well on this date.

03/15/2024
DISTRICT WELL INSPECTOR



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

WALTER N. MILLER
DIRECTOR

THEODORE M. STREIT
ADMINISTRATOR

February 2, 1983

Tyrone Energy, Inc.
420 Buckhannon Pike
Clarksburg, W. Va. 26301

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>
RAN-0468-REN.	Roy A. Howes, #1	Roaring Creek
RAN-1469	Roy A. Howes, #2	Roaring Creek

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/

03/15/2024

RECEIVED
JUN 3 1982

OIL & GAS DIVISION
DEPT. OF MINES

1.0 API well number: (If not available, leave blank. 14 digits.)	47-083-0468															
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA															
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	4995 feet															
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Name: Tyrone Energy Street: 420 Buckhannon Pike City: Clarksburg, WV State: Zip Code: 26301															
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Field Name: Roaring Creek County: Randolph State: WV															
(b) For OCS wells:	Area Name: Block Number: Date of Lease: Mo. Day Yr. OCS Lease Number:															
(c) Name and identification number of this well: (35 letters and digits maximum.)	Roy Howes/Tyrone Energy #1															
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)																
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Columbia Gas Transmission Corporation Name Buyer Code															
(b) Date of the contract:	Mo. Day Yr.															
(c) Estimated annual production:	MMcf.															
	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:35%;"></th> <th style="width:15%;">(a) Base Price (\$/MMBTU)</th> <th style="width:15%;">(b) Tax</th> <th style="width:15%;">(c) All Other Prices [Indicate (+) or (-).]</th> <th style="width:20%;">(d) Total of (a), (b) and (c)</th> </tr> </thead> <tbody> <tr> <td>7.0 Contract price: (As of filing date. Complete to 3 decimal places.)</td> <td style="text-align: center;">5.252</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> <td style="text-align: center;">5.252</td> </tr> <tr> <td>8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)</td> <td style="text-align: center;">5.252</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> <td style="text-align: center;">5.252</td> </tr> </tbody> </table>		(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)	7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	5.252	---	---	5.252	8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	5.252	---	---	5.252
	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)												
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	5.252	---	---	5.252												
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	5.252	---	---	5.252												
9.0 Person responsible for this application:	Name: Louis Ferrari Title: Land Manager Signature: <i>Louis Ferrari</i> Date Application is Completed: 4/26/82 Phone Number: 304/472-9600															

Agency Use Only
Date Received by Juris. Agency JUN 3 1982
Date Received by FERC

DEC. 2 1982

DATE:

BUYER-SELLER CODE

PARTICIPANTS:

WELL OPERATOR:

Tyrone Energy

FIRST PURCHASER:

Columbia Gas Tran. Corp.

004030

OTHER:

W. Va. Department of Mines, Oil & Gas Division

WELL DETERMINATION FILE NUMBER

82 0603-107-083-0468

Use Above File Number on all Communications
Relating to Determination of this Well

~~Final Well Record~~

QUALIFIED

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 Items not completed - Line No. 7.0 b,c 8.0 b,c
- 2. IV-1 Agent Roger Stevens
- 3. IV-2 Well Permit
- 4. IV-6 Well Plat
- 5. IV-35 Well Record Drilling Deepening
- 6. IV-36 Gas-Oil Test: Gas Only Was Oil Produced? Ratio
- 7. IV-39 Annual Production years
- 8. IV-40 90 day Production Days off line:
- 9. IV-48 Application for certification. Complete?
- 10-17. IV Form 51 - 52 - 53 - 54 - (55) - 56 - 57 - 58 Complete? Affidavit Signed
- 18-28. Other: Survey Logs Geological Charts
Structure Map 1: 4000 Map Well Tabulations
Gas Analyses
- (5) Date commenced: 3-19-82 Date completed 3-24-82 Deepened
- (6) Production Depth: 4971-4995, 3794-3802
- (8) Production Formation: Elk Benson
- (9) Final Open Flow: 340 MCF
- (10) After Frac. R. P. 1250[#] 72 hr.
- (11) Other Gas Test:
- (12) Avg. Daily Gas from Annual Production:
- (13) Avg. Daily Gas from 90-day ending w/1-120 days
- (14) Line Pressure:
- (15) Oil Production: From Completion Report
- (16) Does lease inventory indicate enhanced recovery being done? No
- (17) Is affidavit signed? Notarized?
- (18) Does official well record with the Department confirm the seismic information? Yes
- (19) Additional information: Does computer program exist?
- (20) Determination Objected to By Whom?

03/15/2024

73

$$= 1250 + 1250 (E^{.1216} - 1)$$

$$= 1250 + 1250 (1.1275 - 1)$$

$$= 1250 + 1250 (.1275)$$

$$= 1250 + 159.375$$

$$= 1409.375 \#$$

$$P = 1250$$

$$X = \frac{GL}{53.34} \times (T + 460)$$

$$G = .68$$

$$L = 5486'$$

$$T = 115^\circ$$

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's
Well No. #1

API Well No.
47 - 083 - 0468
State County Permit

WELL CLASSIFICATION FORM
HIGH COST GAS WELL - DEVONIAN SHALE
NGPA Section 107

DESIGNATED AGENT Roger Stevens

ADDRESS 420 Buckhannon Pike
Clarksburg, Wv 26301

LOCATION Elevation 2416
Watershed Brook Run

WELL OPERATOR Tyrone Energies Inc.

ADDRESS 420 Buckhannon Pike
Clarksburg, WV 26301

Dist. Roaring Ck County Randolph Quad. Ellamore 7 1/2

Gas Purchase
Contract No. _____

GAS PURCHASER Columbia Gas Trans. Corp.

ADDRESS P.O. Box 1273
Charleston, WV 25325

Meter Chart Code _____

Date of Contract _____

* * * * *

Date surface drilling began: March 18, 1982

Indicate the bottom hole pressure of the well and explain how this was calculated.

$$\begin{aligned} \text{BHP} &= P_1 + P_2 (E^x - 1) \\ &= 1250 + 1250 \left(E^{\frac{.68(5486)}{53.34 \times (115 + 460)}} - 1 \right) \\ &= 1250 + 1250 \left(E^{\frac{3730.48}{30670.5}} - 1 \right) \end{aligned}$$

AFFIDAVIT over

I, Louis A. Ferrari, having been first sworn according to law, state that I have calculated the percentage of footage of the producing interval which is not Devonian Shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described in subparagraph (3)(i) or (3)(ii)(A) has been filed, or as indicated by the report described in subparagraph (3)(ii)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high-cost natural gas well.

Louis A. Ferrari

STATE OF WEST VIRGINIA

COUNTY OF Upshur, TO-WIT:

I, Marcella L. Garrison, a Notary Public in and for the state and county aforesaid, do certify that Louis A. Ferrari, whose name is signed to the writing above, bearing date the 1 day of June, 19 82, has acknowledged the same before me, in my county aforesaid. 03/15/2024

Given under my hand and official seal this 1 day of June, 19 82.
My term of office expires on the 21 day of November, 19 90.

Marcella L. Garrison
Notary Public

(NOTARIAL SEAL)