



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
MAY 11 1981

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

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 _____

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. Two (2) Elevation 2341
District Roaring Creek County Randolph
Quadrangle Ellamore

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

Fred W. Burdette
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, Roy A. Howes
(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 of Well Operator

420 Buckhannon Pike Street
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

47-083-0469

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 [Signature]

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: 5450 _____ 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 WELL	CEMENT PUT UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10	30"	30"	Circulate
9 - 5/8			
8 - 5/8	1400'	1400'	
7			
5 1/2			
4 1/2		5350	535 Sacks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 50 FEET _____ SALT WATER 465 FEET _____
 APPROXIMATE COAL DEPTHS 30, 120, 520 _____
 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.


James J. LaRosa


 Coal Company
 President

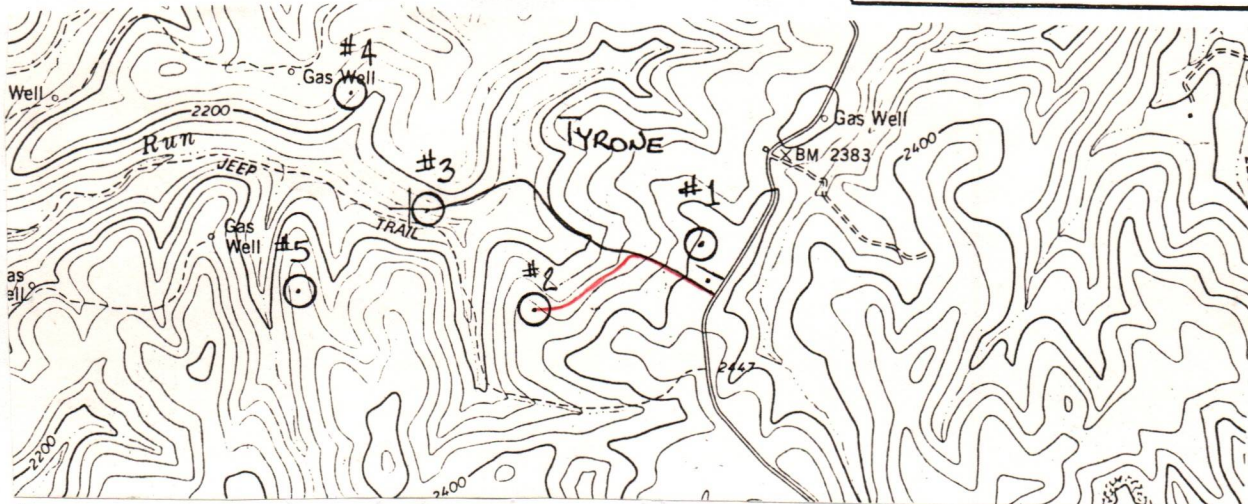
 Official Title

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE ELLAMORE T.S.

LEGEND

Well Site 











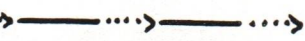

Access Road 

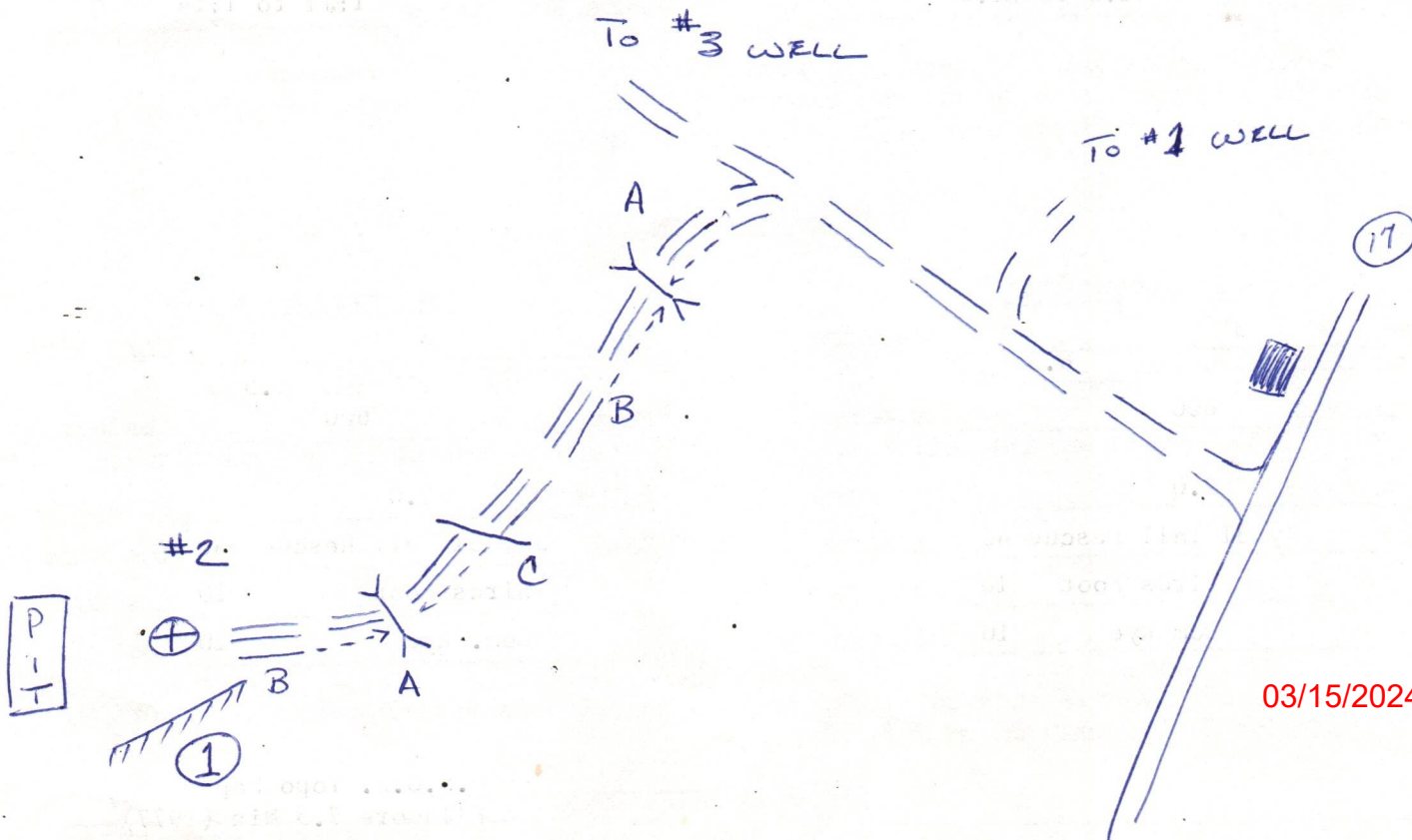


WELL SITE PLAN

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

LEGEND

Property boundary 	Diversion 
Road 	Spring 
Existing fence 	Wet spot 
Planned fence 	Building 
Stream 	Drain pipe 
Open ditch 	Waterway 



ALL TIMBER WILL BE CUT AND SKIPPED.
BRUSH WILL BE BURNED OR BURIED.
ROAD WILL BE 10 TO 15% OR LESS.
CUTS WILL BE 2:1 OR LESS.

REVISED



IV-9
(Rev 8-81)



DATE March 10, 1982

WELL NO. #2

State of West Virginia

API NO. 47 - 083 - 0469

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Tyrone Energy Inc. DESIGNATED AGENT Roger Stevens
 Address 420 Buckhannon Pike, Clarksburg, WV Address 420 Buckhannon Pike, Clarksburg, WV
 Telephone (304) 623-6751 Telephone (304) 623-6751
 LANDOWNER Roy A. Howes 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: 3-15-82

(Date)
Junior Welch
(SCD Agent)

ACCESS ROAD

LOCATION

Structure <u>Drain Pipe 12" cmp</u> (A)	Structure <u>Diversion</u> (1)
Spacing <u>As Shown</u>	Material <u>Earth</u>
Page Ref. Manual <u>1:7 to 1:8</u>	Page Ref. Manual <u>1:9 to 1:11</u>
Structure <u>Open Ditch</u> (B)	Structure _____ (2)
Spacing <u>As Shown</u>	Material _____
Page Ref. Manual <u>1:11 to 1:14</u>	Page Ref. Manual _____
Structure <u>Ditch Relief Cross Drain</u> (C)	Structure _____ (3)
Spacing <u>As Shown</u>	Material _____
Page Ref. Manual <u>1:3 to 1:6</u>	Page Ref. Manual _____

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

REVEGETATION

Treatment Area I

Treatment Area II

Lime 3 Tons/acre
or correct to pH 6.5
 Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
 Mulch 2.0 Tons/acre
 Seed* Ky 31 Tall Fescue 40 lbs/acre
Birds Foot 10 lbs/acre
Dom Rye 10 lbs/acre

Lime 3 Tons/acre
or correct to pH 6.5
 Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
 Mulch 2.0 Tons/acre
 Seed* Ky 31 Tall Rescue 40 lbs/acre
Birds Foot 10 lbs/acre
Dom. Rye 10 lbs/acre







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

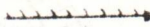





03/15/2024

PLAN PREPARED BY Alvin Sauer
 ADDRESS Rt 4 Box 444
Buckhannon
 PHONE NO. 472-0007

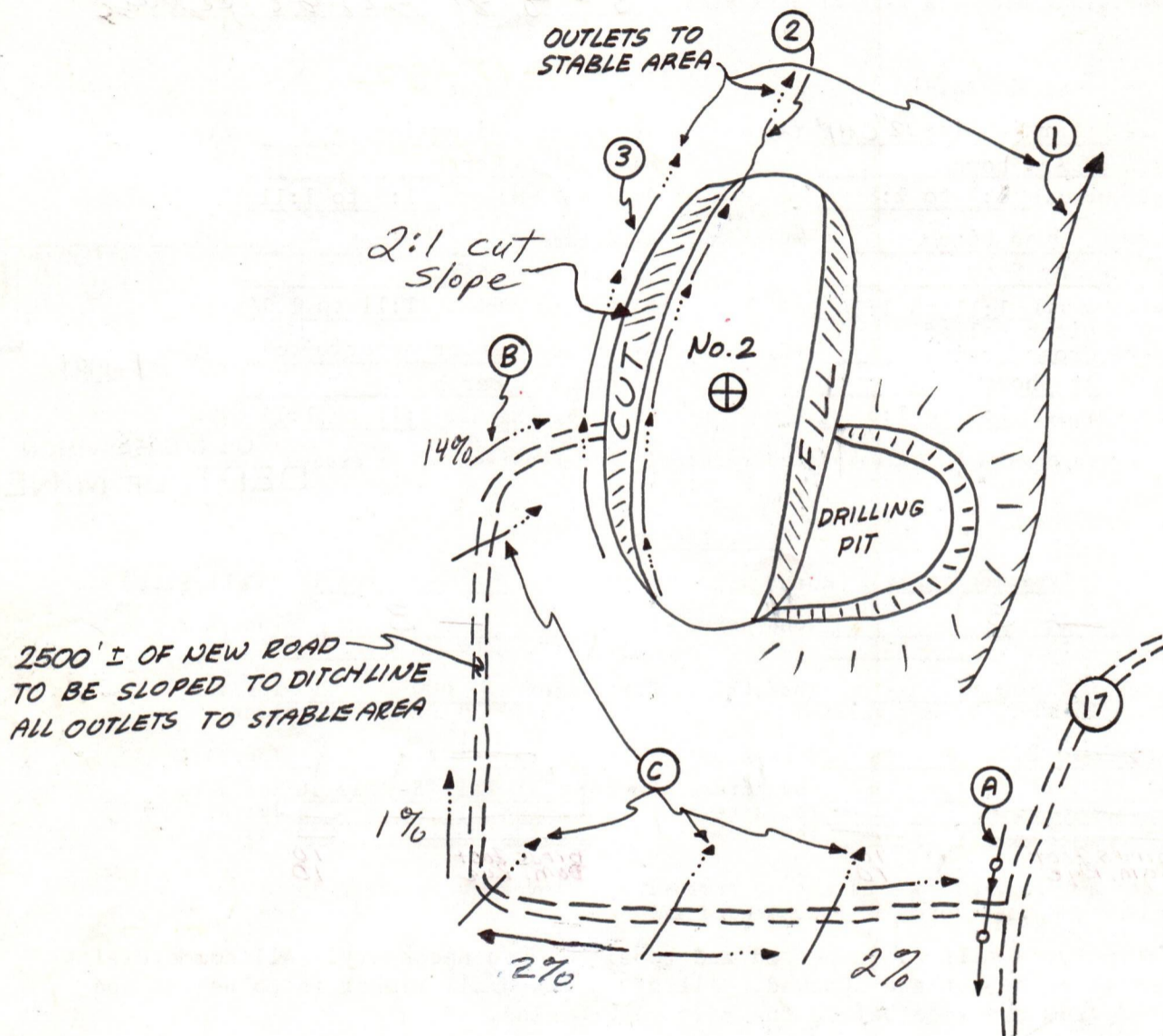
NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

Well Site Plan

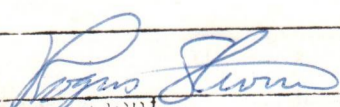
- Legend: Property Boundary 
 Road 
 Existing Fence 
 Planned Fence 
 Stream 
 Open Ditch 

- 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 an area of second growth timber. The well access road will leave State Route 17 and travel some 2500' to the well site. 03/15/2024

Signature:  420 Buckhannon Pike, Clarksburg, WV 26301 (304) 623-6751
 Agent Address Phone Number

Roger Stevens

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



Date April 29, 1981
 Well No. Tyrone No. 2
 API No. 47 - 083 - 0469-Ren.
 State West Virginia County Randolph Permit

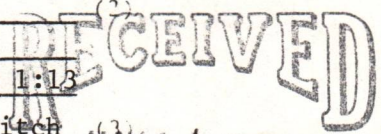
STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS

Company Name Tyrone Energy Inc. Designated Agent Roger Stevens
 Address 420 Buckhannon Pike, Clarksburg, WV 26301 Telephone (304)623-6751
 Landowner Roy A. Howes 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>Drain Pipe 12" CMP</u> (A)	Structure <u>Diversion</u> (1)
Spacing <u>As Shown</u>	Material <u>Earth</u>
Page Ref. Manual <u>1:7 to 1:8</u>	Page Ref. Manual <u>1:9 to 1:11</u>
Structure <u>Open Ditch</u> (B)	Structure <u>Open Ditch</u>
Spacing <u>As Shown</u>	Material <u>Earth</u>
Page Ref. Manual <u>1:11 to 1:14</u>	Page Ref. Manual <u>1:11 to 1:13</u>
Structure <u>Ditch Relief</u>	Structure <u>Interceptor Ditch</u> (3)
Structure <u>Cross Drain</u> (C)	Material <u>Earth</u>
Spacing <u>As Shown</u>	Page Ref. Manual <u>1:11 to 1:14</u>
Page Ref. Manual <u>1:3 to 1:6</u>	



All structures should be inspected regularly and repaired if necessary.

OIL & GAS DIVISION
DEPT. OF MINES

Revegetation

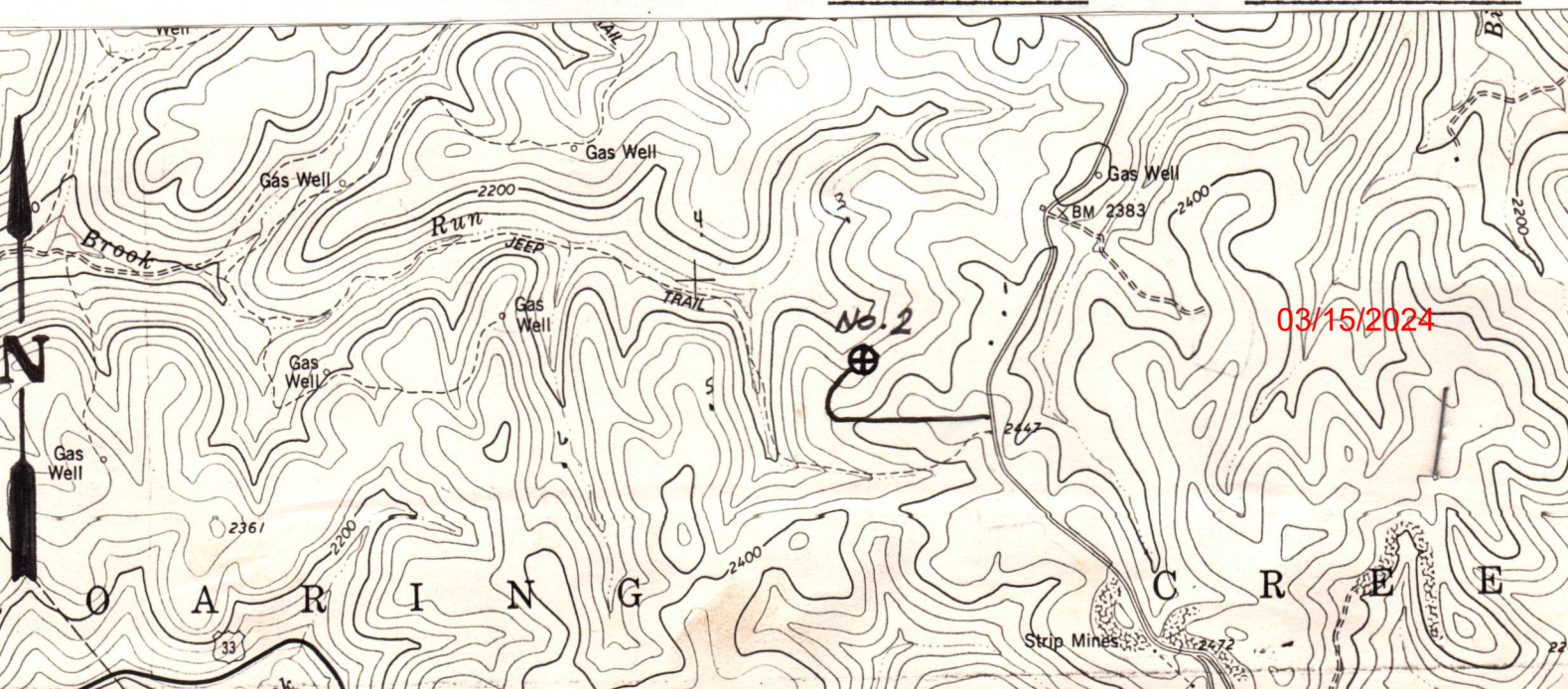
Treatment Area I (Road)	Treatment Area II (Well Site)
Lime <u>2.0 3</u> Tons/acre or correct to pH <u>6.5</u>	Lime <u>2.0 3</u> Tons/Acre or correct to pH <u>6.5</u>
Fertilizer <u>600</u> lbs/acre (10-20-20 or equivalent)	Fertilizer <u>600</u> lbs/acre (10-20-20 or equivalent)
Mulch <u>1.5 to 2.0</u> Tons/Acre	Mulch <u>1.5 to 2.0</u> Tons/Acre
Seed* Ky 31 Tall Fescue <u>40</u> lbs/acre	Seed* Ky 31 Tall Fescue <u>40</u> lbs/acre
Ladino Clover <u>4</u> lbs/acre	Ladino Clover <u>4</u> lbs/acre
Spring Wheat <u>100</u> lbs/acre	Spring Wheat <u>100</u> lbs/acre
Birds Foot <u>10</u>	Birds Foot <u>10</u>
Dom. Rye <u>10</u>	Dom. Rye <u>10</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. (1977)

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, WV
 TELEPHONE TELEPHONE (304) 623-6751
 ESTIMATED DEPTH OF COMPLETED WELL: 5450 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 PUT UP OR SACKS - CUBIC FT
20 - 16			
13 - 10	30"	30"	Circulate
9 - 5/8			
8 - 5/8	1400'	1400'	
7			
5 1/2			
4 1/2		5350	535 Sacks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 50 FEET SALT WATER 465 FEET
 APPROXIMATE COAL DEPTHS 30, 120, 520
 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 FOR ALL 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) days 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 of application.

WAIVER: I the undersigned, Agent for James J. LaRosa Coal Company, Owner or Operator of the coal lease 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.

James J. LaRosa
 Coal Company
 President
 Official Title



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

Surface Owner Ray A. Howes

Company Tyrone Energy, Inc.

Address Kingsville Rd., Belington, WV

Address 420 Buckhannon Pike, Clarksburg, WV

Mineral Owner J. J. LaRosa

Farm Ray A. Howes Acres 281.06

Address 420 Buckhannon Pike, Clarksburg, WV

Location (waters) Brook Run

Coal Owner J. J. LaRosa

Well No. Two (2) Elevation 2341

Address 420 Buckhannon Pike, Clarksburg, WV

District Roaring Creek County Randolph

Coal Operator None

Quadrangle Ellamore

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.

INSPECTOR TO BE NOTIFIED Robert S. Stewart

ADDRESS P.O. Box 345, Jane Lew, WV 26378

PHONE 884-7782

Fred Bennett
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 title thereto, (or as the case may be) under grant or lease dated June 10 19 76 by Ruth Woods Dayton, Widow made to James Joseph LaRosa and recorded on the 24 day of January 19 77, in Randolph County, Book 305 Page 639

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 operators at their above shown respective addresses _____ 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:

Very truly yours, Robert E. Reese
(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 of 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 of 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.

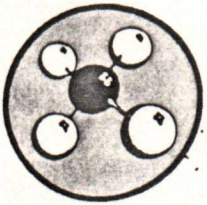
03/15/2024

47-083-0469-REN. PERMIT NUM

BLANKET BOND

"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 Robert E. Reese



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 type

RECEIVED

MAR 31 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Mike
called 4/15/82
understand
believe
the problem
if you ignore plat No 2
fit together the other two
only the surveyed
and show
200'

03/15/2024

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

Formation	Perfs	Holes	BRKD	Sand	AV.PSI.	AV.RT.	FLUID	ISIP
Elk, Haverty	4885-4916	14	2600	69000	2700	31	580	1400
Benson	3686-3698	12	2600	69000	2200	37	560	1000

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	0	60	Damp @ 90'
Coal	Bl	S	60	63	
Sand	W	H	63	148	
Shale	Gr	S	148	188	
Sand	W	H	188	236	
Coal	Bl	S	236	240	
Sand	W	H	240	560	
Shale	Gr	S	560	1040	
Red Shale	Red	S	1040	1090	
Shale	Gr	S	1090	1215	
Big Lime	Br	H	1215	1295	
Big Injun	W	H	1295	1460	
Sand	W	H	1460	2175	
Shale	Gr	S	2175	3685	
Benson	Br	M	3685	3730	Show Gas @ 3695
Shale	Gr	S	3730	4860	
Elk	Br	M	4860	4935	Show Gas @ 4915
Shale	Gr	S	4935	5426	
TD				5426	

(Attach separate sheets as necessary)

Tyone Energy, Inc
Well Operator
By: Kenneth E. Rose 03/15/2024
Date: 4/29/02

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 28, 1982
Operator's
Well No. Tyrone #2
Farm Roy A. Howes
API No. 47 - 083 - 0469

State of West Virginia

RECEIVED

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: 2325 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 A. Howes

ADDRESS Kingsville Rd., Belington, WV

MINERAL RIGHTS OWNER James LaRosa

ADDRESS 420 Buckhannon Pike, Clarksburg, WV

OIL AND GAS INSPECTOR FOR THIS WORK Robert

Stewart ADDRESS Jane Lew, WV 26378

PERMIT ISSUED January 15, 1982

DRILLING COMMENCED April 13, 1982

DRILLING COMPLETED April 18, 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"	22' OF	11 3/4	To Surface
9 5/8			
8 5/8		1074	250 Sks To Surface
7			
5 1/2			
4 1/2		5052	(3200-5062) 320 Sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Elk Depth 4875 feet

Depth of completed well 5426 feet Rotary X / Cable Tools _____

Water strata depth: Fresh 90 feet; Salt -- feet

Coal seam depths: 60-63 & 236-240 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Elk Pay zone depth _____ feet

Gas: Initial open flow 60 Mcf/d Oil: Initial open flow -- Bbl/d

Final open flow 444 Mcf/d Final open flow -- Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1350 psig (surface measurement) after 96 hours shut in

(If applicable due to multiple completion--)

03/15/2024

Second producing formation Benson Pay zone depth _____ feet

Gas: Initial open flow 60 Mcf/d Oil: Initial open flow -- Bbl/d

Final open flow 444 Mcf/d Oil: Final open flow -- Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1350 psig (surface measurement) after 96 hours shut in

(Continue on reverse side)

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

RECEIVED

APR 15 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 083-0469

Oil or Gas Well GAS
(KIND)

Company <u>Tyrone Energy</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>CLARKSBURG</u>	Size			Kind of Packer
Farm <u>Roy Howes</u>	16			
Well No. <u># 2</u>	13			Size of
District <u>ROARING CREEK</u> County <u>RANDOLPH</u>	10			
Drilling commenced <u>4-13-82</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

4-13-82
DATE

Robert St...
DISTRICT WELL INSPECTOR 511
03/15/2024

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

RECEIVED

SEP 29 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 083-0469

Oil or Gas Well GAS
(KIND)

Company TYRONE ENERGY
 Address CLARKSBURG
 Farm ROY HOWES
 Well No. # 2
 District ROARING CREEK County RANDOLPH
 Drilling commenced 4-82
 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:

OK To Release

9-27-82

DATE

Robert Stewart 03/15/2024 51
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-0469	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

JUL 01 1982

OIL & GAS DIVISION
DEPT. OF MINES

1.0 API well number: (If not available, leave blank. 14 digits.)	47-083- 0469			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA		Category Code	
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	4875 feet			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Tyrone Energy, Inc. Name		Seller Code	
	420 Buckhannon Pike Street			
	Clarksburg, WV City		26301 State Zip Code	
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Roaring Creek Field Name			
	Randolph County		WV State	
(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 A. Howes/Tyrone Energy #2			
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.			
	(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:	Louis Ferrari Name Title			
Agency Use Only Date Received by Juris. Agency	Signature Louis A. Ferrari			
Date Received by FERC	April 26, 1982 Date Application is Completed		304/472-9600 Phone Number	

JUL 1 1982

U.S. DEPARTMENT OF ENERGY
Federal Energy Regulatory Commission
Washington, D.C. 20426

**APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)**
(Sections 102, 103, 107 and 108)

PLEASE READ BEFORE COMPLETING THIS FORM:

General Instructions:

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA. A separate application is required for each well. If any reservoir qualifies for a category which differs from the category applicable to the producing well, separate applications must be made for the producing well and the reservoir. Complete each appropriate item on the reverse side of this page. The code numbers used in items 4.0 and 6.0 can be obtained from the Buyer/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Enter any additional remarks in the space below.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 270.103. If there are any questions, call (202) 275-4539.

Specific Instructions for Item 2.0, Type of Determination:

<u>Section of NGPA</u>	<u>Category Code</u>	<u>Description</u>
102	1	New OCS Lease
102	2	New onshore well (2.5 mile test)
102	3	New onshore well (1,000 feet deeper test)
102	4	New onshore reservoir
102	5	New reservoir on old OCS Lease
103	-	New onshore production well
107	-	High cost natural gas
108	-	Stripper well

Other Purchasers/Contracts:

<u>Contract Date</u> (Mo. Day Yr.)	<u>Purchaser</u>	<u>Buyer Code</u>
_____	Columbia Gas Transmission Corp.	_____
_____	_____	_____
_____	_____	_____

Remarks:

5881 1 106

PARTICIPANTS:

DATE: DEC 21 1982

BUYER-SELLER COD

WELL OPERATOR: Tyrone Energy, Inc.

FIRST PURCHASER: Columbia Gas Trans. Corp.

OTHER: _____

004030

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
920701-107-083-0469
 Use Above File Number on all Communications
 Relating to Determination of this Well

QUALIFIED

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 Items not completed - Line No. 7.0 & 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: 4-13-82 Date completed 4-18-92 Deepened
- (5) Production Depth: 4885-4916, 3686-98
- (5) Production Formation: EIK, Benson
- (5) Final Open Flow: 444 MCF
- (5) After Frac. R. P. 1350# 96 hr.
- (6) Other Gas Test:
- (7) Avg. Daily Gas from Annual Production:
- (8) Avg. Daily Gas from 90-day ending w/1-120 days
- (8) Line Pressure: PSIG from Daily Report
- (5) Oil Production: From Completion Report
- 10-17. Does lease inventory indicate enhanced recovery being done No
- 10-17. Is affidavit signed? Notarized?
- Does official well record with the Department confirm the submitted information? yes 03/15/2024
- Additional information Does computer program confirm?
- Was Determination Objected to By Whom?

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's
Well No. #2

API Well No.

47 - 083 - 0469
State County Permit

WELL CLASSIFICATION FORM

HIGH COST GAS WELL - DEVONIAN SHALE
NGPA Section 107

DESIGNATED AGENT Kenneth Reese

ADDRESS 420 Buckhannon Pike
Clarksburg, WV 26301

LOCATION Elevation 2325
Watershed Brook Run

WELL OPERATOR Tyrone Energies Inc.
ADDRESS 420 Buckhannon Pike
Clarksburg, WV 26301

Dist. Roaring Cl County Randolph Quad. Ellamore 7½

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: 4/13/82

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

$$BHP = P_1 + P_2 (E^x - 1)$$

$$BHP = 1350 + 1350 \left(E^{.68 (5426)} \frac{53.34 \times (114 \times 460)}{30617.16} - 1 \right)$$

$$BHP = 1350 + 1350 \left(E^{\frac{3689.68}{30617.16}} - 1 \right)$$

AFFIDAVIT

continued on back

I, Louis 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 G. Ferrari

STATE OF WEST VIRGINIA

COUNTY OF Upshur, TO-WIT:

I, Marcella Garrison, a Notary Public in and for the state and county aforesaid, do certify that Louis Ferrari, whose name is signed to the writing above, bearing date the 12 day of May, 19 82, has acknowledged the same before me, in my county aforesaid.

03/15/2024

Given under my hand and official seal this 12 day of May, 19 82.
My term of office expires on the 21 day of November, 19 90.

NOTARIAL SEAL)

Marcella G. Garrison
Notary Public

U.S. DEPARTMENT OF ENERGY
Federal Energy Regulatory Commission
Washington, D.C. 20426

**APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)**
(Sections 102, 103, 107 and 108)

PLEASE READ BEFORE COMPLETING THIS FORM:

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108	-	Stripper well

Other Purchasers/Contracts:

<u>Contract Date</u> (Mo. Day Yr.)	<u>Purchaser</u>	<u>Buyer Code</u>
_____	Columbia Gas Transmission Corp.	_____
_____	_____	_____
_____	_____	_____

Remarks:

PARTICIPANTS:

DATE: NOV 8 1982

BUYER-SELLER CODE

WELL OPERATOR: Tyrone Energy, Inc.

FIRST PURCHASER: Columbia Gas Trans. Corp.

004030

OTHER: _____

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
820 506 107083 = 0469
 Use Above File Number on all Communications
 Relating to Determination of this Well

*Log Checked → Qualified
 M.J.*

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

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- 2. IV-1 Agent Roger Stevens
- 3. IV-2 Well Permit
- 4. IV-6 Well Plat
- 5. IV-35 Well Record Drilling Deepening
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- (8) Line Pressure: _____ PSIG from Daily Report: _____
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- 10-17. Does lease inventory indicate enhanced recovery being done NO
- 10-17. Is affidavit signed? Notarized?
- Does official well record with the Department confirm the submitted information? YES
- Additional information _____ Does computer program confirm? _____
- Is Determination Objected to _____ By Whom? _____

03/15/2024

28

$$\text{BHP} = 1350 + 1350 \left(E^{.1205} - 1 \right)$$

$$\text{BHP} = 1350 + 1350 \left(1.1275 - 1 \right)$$

$$\text{BHP} = 1350 + 1350 \left(.1275 \right)$$

$$\text{BHP} = 1350 + 172.125$$

$$\text{BHP} = 1522.125\#$$

$$P = 1350\#$$

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

$$G = .68$$

$$L = 5426$$

$$T = 114^\circ$$

03/15/2024

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

DESIGNATED AGENT Kenneth Reese

ADDRESS 420 Buckhannon Pike
Clarksburg, WV 26301

LOCATION Elevation 2325
Watershed Brook Run

WELL OPERATOR Tyrone Energies Inc.

ADDRESS 420 Buckhannon Pike
Clarksburg, WV 26301

Dist. Roaring Cl County Randolph Quad. Ellamore 7½

GAS PURCHASER Columbia Gas Trans. Corp.

ADDRESS P.O. Box 1273
Charleston, WV 25325

Gas Purchase
Contract No. _____

Meter Chart Code _____

Date of Contract _____

* * * * *

Date surface drilling began: 4/13/82

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$$BHP = 1350 + 1350 \left(E^{\frac{.68 (5426)}{53.34 \times (114 \times 460)}} - 1 \right)$$

$$BHP = 1350 + 1350 \left(E^{\frac{3689.68}{30617.16}} - 1 \right)$$

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continued on back

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03/15/2024

Given under my hand and official seal this 12 day of May, 1982.

My term of office expires on the 21 day of November, 1990.

Marcella S. Garrison
Notary Public

(NOTARIAL SEAL)