

NOTE: LOC. ON 75A OF 260A UNITIZATION

ACCURACY 1" IN 200'

New Location SOURCE ELEV. WOLF PEN RUN NORTH 717.00
 Drill Deeper
 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."
 Abandonment

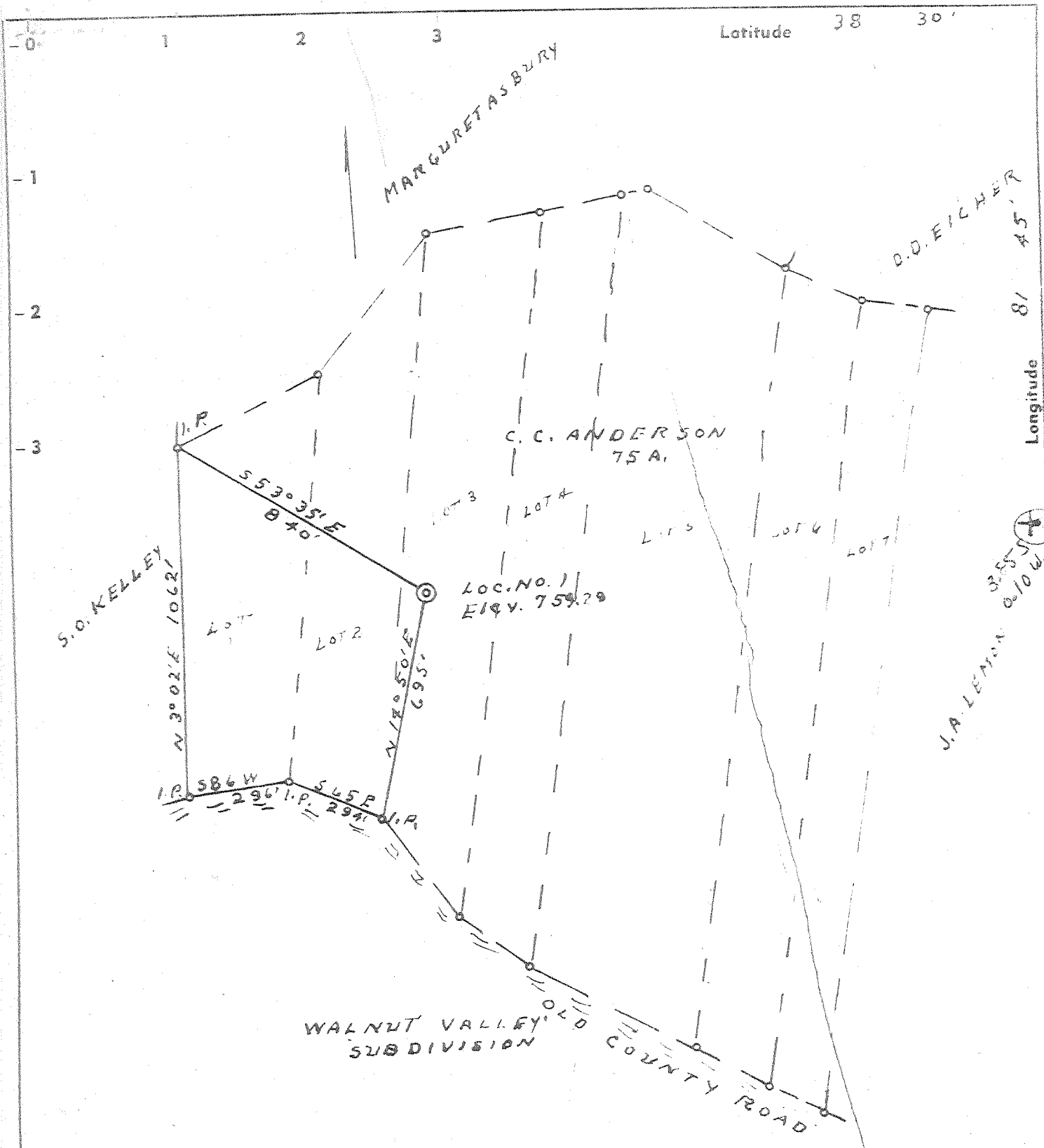
Company Viking Energy Inc. 1095
 Address P.O. Box 13366, Sissonville, W.V. 25360
 Farm C. C. ANDERSON
 Tract _____ Acres 75 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 759.29
 Quadrangle ST ALBANS 15/7.5 NE
 County KANAWHA District UNION
 Engineer L. F. Byrd
 Engineer's Registration No. 804
 File No. _____ Drawing No. _____
 Date 4-5-67 Scale 1" = 400'

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

WELL LOCATION MAP
 API Well No. 47-039-02106-W

+ 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.



NOTE: LOC. ON 75 A OF 260 A UNITIZATION

ACCURACY 1" IN 200' 717.00

- New Location
- Drill Deeper
- Redrill
- Abandonment

"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 act and regulations of the oil and gas section of the mining laws of West Virginia."

Company ALLEN BEARD
 Address SPENCER, W.VA
 Farm C.C. ANDERSON
 Tract _____ Acres 75 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 759.29
 Quadrangle ST ALBANS NE
 County KANAWHA District UNION
 Engineer L. F. Dyer
 Engineer's Registration No. 804
 File No. _____ Drawing No. _____
 Date 4-5-67 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. KAN-2106

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.

67 6 3/2 Newburg deep well



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle

Permit No. **KAN 2106**

WELL RECORD

Oil or Gas Well **Gas**
(KIND)

Company **Allen Beard**
Address **P. O. Box 179, Spencer, W. Va.**
Farm **C. C. Anderson, etal** Acres **25**
Location (waters) **Rocky Fork**
Well No. **1** Elev. **759.29**
District **Union** County **Kanawha**
The surface of tract is owned in fee by **C. C. Anderson, etal**
Address **Cleveland, Ohio**
Mineral rights are owned by **Same**

Drilling commenced **4/20/67**
Drilling completed **4/26/67**
Date Shot From To
With

Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume **11,500 MCF** Cu. Ft.
Rock Pressure lbs. hrs.
Oil bbls., 1st 24 hrs.

WELL ACIDIZED (DETAILS)

WELL FRACTURED (DETAILS) **Muc Acid 500 - x Acid 1000 - j111750 - J84 400 - Sand 28,000**

RESULT AFTER TREATMENT (Initial open Flow or bbls.)
ROCK PRESSURE AFTER TREATMENT **2196**

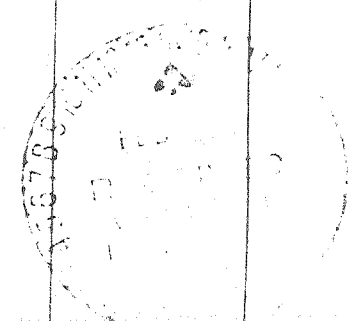
Fresh Water Feet
Producing Sand **Newburg** Depth

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 3/8	62	62	
10 9 5/8	1875	1875	Size of
8 1/4 7	5400	5400	Depth set
6 1/2			
5 3/16			
4 1/2			
3			Perf. top
2	5431.38	5431.38	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED **13 3/8** SIZE **62** No. Ft. **4/20/67** Date
Amount of cement used (bags) **40 CF**
Name of Service Co. **Dowell**
COAL WAS ENCOUNTERED AT **None** FEET INCHES
FEET INCHES
FEET INCHES

(99,000 MCF) *United Fuel Gas Co. recalcu - lated this well at 18,200 MCF*

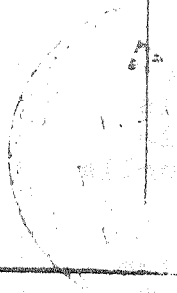
Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface				0			
Soil			0	70			
Shale & Lime			70	160			Fresh Water - 120 ft.
Sand			160	220			
Shale			220	270			
Sand & Lime			270	340			
Sand & Lime			340	410			
Shale			410	700			
Shale & Sand			700	1190			
Shale			1190	1220			
Sandy Lime			1220	1300			
Shale & Sand			1300	1430			
Shale			1430	1525			
Maximum Sand			1525	1580			
Big Lime			1580	1725			
Lime			1725	1745			
Injun Sand			1745	1790			
Sandy Shale			1790	1875			
Sandy Shale			1875	2125			
Shale & Shells			2125	2910			
Shale			2910	3810			
Shale			3810	4645			
Onadoga Lime			4645	4660			
Onadoga Lime			4660	4725			
Oriskany Sand			4725	4765			
Shale & Lime			4765	5130			
Shale & Lime			5130	5400			
Shale & Lime			5400	5440			
Sand Newburg			5440	5455			



Gas 5450-53

(over)

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Shale & Lime			5455	5468	McKenzie fm.		



Date: _____
 APPROVED _____

039-2106 Frac.
Issued 10/26/92 Page 1 of 1

FORM WW-2B

OCT 2 1 92

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
Office of Oil & Gas WELL WORK PERMIT APPLICATION

Expired 10/26/94
593

- 1) Well Operator: Viking Energy Inc. 51440 (9) 593
- 2) Operator's Well Number: C. Anderson #1 WV9655 3) Elevation: 759.29
- 4) Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production ___ / Underground Storage ___ /
Deep ___ / Shallow X /
- 5) Proposed Target Formation(s): Shale Sand 44
- 6) Proposed Total Depth: 4645 feet
- 7) Approximate fresh water strata depths:
- 8) Approximate salt water depths:
- 9) Approximate coal seam depths:
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
- 11) Proposed Well Work: Perforate and Fracture Shale Sand
- 12) *Set permanent or temporary plug 3 frac existing well New Formation*

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	13 3/8			62'	62'	40 CF
Fresh Water	9 5/8			1875'	1875'	<i>Existing</i>
Coal						
Intermediate	7			5400'	5400'	<i>Existing</i>
Production	2			5431.38'	5431.38'	
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

3618/35

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blanket Agent
 (Type)

- 1) Date: October 6, 1992
- 2) Operator's well number
C. Anderson #1 WV9655
- 3) API Well No: 47 - 39 - 2106 - F
State - County - Permit

OCT 21 1992
Permitting
Office of Oil & Gas

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name Charles C. Anderson
Address 5164 Russet Drive
Charleston, WV. 25313
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name _____
Address _____
 - (b) Coal Owner(s) with Declaration
Name Charles C. Anderson
Address 5164 Russet Drive
Charleston, WV. 25313
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name _____
Address _____
- 6) Inspector _____
Address _____
Telephone (304)- _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
 X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties, by:

- X Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

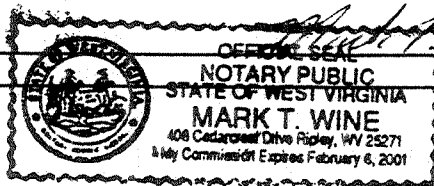
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Viking Energy Inc.
By: [Signature]
Its: Designated Agent
Address P. O. Box 13366
Sissonville, WV. 25360
Telephone 304-984-3389

Subscribed and sworn before me this 20 day of October, 1992

My commission expires _____



[Signature] Notary Public

RECEIVED
 Environmental Protection
 JUL 22 93
 Permitting
 Office of Oil & Gas

26-Oct-92
 API # 47-039-02106 F

State of West Virginia
 Division of Oil and Gas

Well Operator's Report of Well Work

Name: Anderson, Charles C.

Operator Well No. Anderson #1-9655

LOCATION: Elevation: 759.29 Quadrangle: St. Albans
 District: Union County: Kanawha
 Latitude: 5250 Feet South of 38 Deg. 30 Min. 0 Sec.
 Longitude: 300 Feet West of 81 Deg. 45 Min. 0 Sec.

Company:

Viking Energy Corporation
 P.O. Box 13366
 Sissonville, WV 25360

Agent: Michael Pinkerton

Inspector: Carlos W. Hively

Permit Issued: 10-26-92

Well work Commenced: 11-18-92

Well work Completed: 11-25-92

Verbal Plugging _____

Permission granted on: _____

Rotary _____ Cable _____ Rig _____

Total Depth (feet) 4500'

Fresh water depths (ft) n/a

Salt water depths (ft) n/a

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill up Cu.Ft.
7"		*4500'	*122 cf
2 3/8"		3824'	

Is coal being mined in area (Y/N)? N

Coal Depths (ft): _____

* See Back

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) *
 Gas: Initial open flow 149 MCF/D Oil: Initial open flow 0 Bbl/d
 Final open flow 139 MCF/D Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 24 Hours
 Static rock Pressure 800 psig (surface pressure) after 24 Hours

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/D Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/D Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING; 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

FOR: Viking Energy Corporation

BY: _____ Consultant

DATE: 12-29-92

Reviewed TM6

Recorded _____

JUL 30 1993

Sandy Shale	1790	1875	
Sandy Shale	1875	2125	
Shale & Shells	2125	2910	
Shale	2910	3810	
Shale	3810	4645	
Onadoga Lime	4645	4660	
Onadoga Lime	4660	4725	
Oriskany Sand	4725	4765	
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Shale & Lime	5130	5400	
Shale & Lime	5400	5440	
Sand Newburg	5440	5455	

JUN 30 1993

STIMULATION SUMMARY

Partial Plugging Data:

Set 5.61 Bridge plug @ 4500'

Squeeze Cement Data:

7" Casing perforated and squeeze cemented attaining 122 cf fill-up to 3400'. Total Depth inside 7" at 4099'.

Recompletion Data:

Devonian "Brown" Shale ^{813 813} 3702-3946' 20 holes
75 quality foam frac, 45,000 lbs 20/40 sand

See original record for additional formation information and flow data.

TD 5468

DF- 545

OFT 535

5/1/71