

U.S.G.S. Standard Disk Stamped C-97-1956  
 In North Side Of Sissonville Jr. High School  
 Gym. Elev. 630.'

ACCURACY: One Part In 200

- Fracture Before 6/5/29
- New Location
- Drill Deeper
- Redrill
- Abandonment

I, the undersigned hereby certify that this map is correct to the best information required by and Gas Section of the  
 and as prescribed in  
 Department of Mines Regu-

*Surface owner for Temp Plug Back  
 & Fuel Drisking. is  
 PYRAMID Productions  
 PO Box 3233, Ches. W. 24322.*

C Viking Energy, Inc.  
 P.O. Box 13366, Sissonville, wva. 25360

A Farm CODA MAE NEELY ET. AL.

Tract \_\_\_\_\_ Acres 265.57 Lease No. 46753 ET. AL.

Well (Farm) No. \_\_\_\_\_ Serial No. 9528 P.I.

Elevation (Spirit Level) 894.38'

Quadrangle KENNA 15 / Romance 7.5

County KANAWHA District POCA

Engineer Adrian E. Hardman

Engineer's Registration No. 2330

File No. 04-69 Drawing No. \_\_\_\_\_

Date OCT. 7, '69 Scale 1" = 400'

STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL & GAS  
 NITRO, WEST VIRGINIA 25143

WELL LOCATION MAP  
Oil Well No. 47-039-02438-F

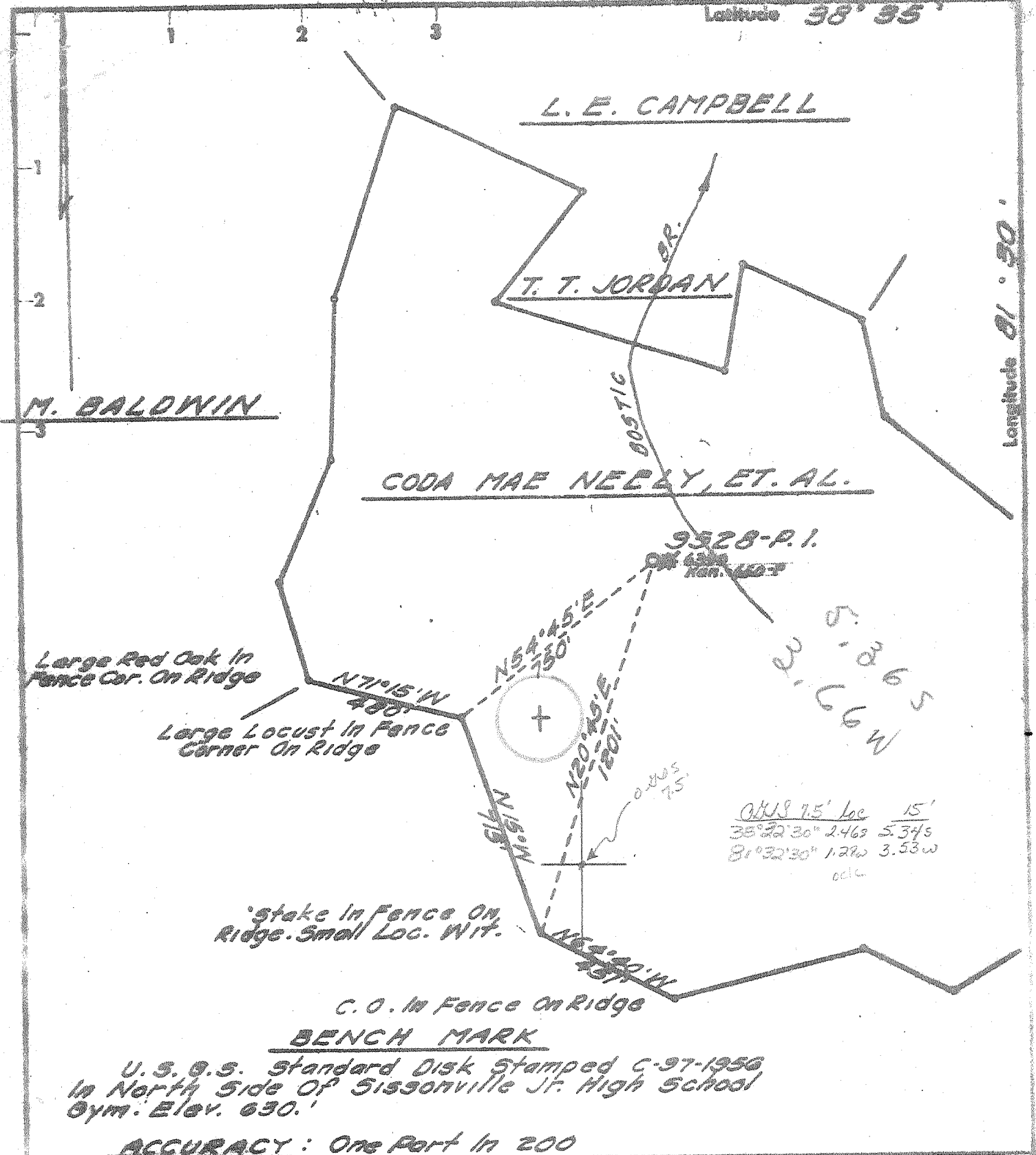
*Well Drilled in 196 to 5820  
 by United Fuel Production from  
 Newburg. Viking to set temporary  
 Plug free Crisking Remove Plug  
 Comingle with Newburg.*

JUL 26 1996

DEEP WELL

Latitude 38° 35'

Longitude 81° 30'



ACCURACY: One Part in 200

Fracture Before 6/5/29 ..... <input type="checkbox"/> New Location ..... <input checked="" type="checkbox"/> Drill Deeper ..... <input type="checkbox"/> Redrill ..... <input type="checkbox"/> Abandonment ..... <input type="checkbox"/>	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 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia. The accuracy of this survey is within the limits and as prescribed in Paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.
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Company UNITED FUEL GAS CO.  
 Address CHARLESTON, W. VA.  
 Farm CODA MAE NEELY ET. AL.  
 Tract \_\_\_\_\_ Acres 265.57 Lease No. 46753 ET. AL.  
 Well (Farm) No. \_\_\_\_\_ Serial No. 9528 P.1.  
 Elevation (Spirit Level) 694.38'  
 Quadrangle KENNA SE  
 County KANAWHA District POCA  
 Engineer Arthur E. Waldman  
 Engineer's Registration No. 2330  
 File No. 04-69 Drawing No. \_\_\_\_\_  
 Date OCT. 7, '69 Scale 1" = 400'

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

**WELL LOCATION MAP**  
 FILE NO. Kan-2438

+ 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.

*Deep well (Newburg)*

6-6 Rocky Fork 312

OCT 27 1969

\*United Fuel Gas Company 81.3608%  
Spartan Gas Company 18.6392%

Map Square 64-69

38°45'  
KE 9-51

Form OG-10



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Rotary   
Spudder   
Cable Tools   
Storage  E. Well  
**Gas**

Quadrangle Kenna  
Sissonville  
Permit No. KAN. 2438

WELL RECORD

Oil or Gas Well (KIND)

Company United Fuel Gas Company  
Address P. O. Box 1273, Charleston, W. Va.  
Farm Coda Mae Neely Acres  
Location (waters) Bostic Branch KR 894.54  
Well No. 9528 PI Elev. 894.38  
District Poca County Kenawha  
The surface of tract is owned in fee by... #  
Address  
Mineral rights are owned by...  
Address  
Drilling commenced October 22, 1969  
Drilling completed October 29, 1969  
Date Shot From To  
With  
Open Flow /10ths Water in... Inch  
/10ths Merc. in... Inch  
Volume 4.46 MMCF Cu. Ft.  
Rock Pressure... lbs. hrs.  
Oil... bbls. 1st 24 hrs.

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16		181'	
12	181'	181'	
9-5/8"	1807'	1807'	Size of
7"	5806'	5806'	Depth set
6"			Perf. top
5 3/16			Perf. bottom
4 1/4			Perf. top
3	5812'	5812'	Perf. bottom
2			Perf. top
Liners Used			Perf. bottom

WELL ACIDIZED (DETAILS)  
WELL FRACTURED (DETAILS) Mud Acid 500-gals. Fill up 2000-gals. Treating 28,000 gals. Over Flush 9400 gals. Sand 20-40 17,000#  
RESULT AFTER TREATMENT (Initial open flow or bbls.) 6,400 MMCF 6,400 MCF/EPD (4,900,000)  
ROCK PRESSURE AFTER TREATMENT... HOURS  
Fresh Water... Feet... Split Water... 1035... Feet...  
Producing Sand Newburg 5803-18 Depth 5820'

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			0	20			
Shale			20	50			
R. Rock & Shale			50	70			
Sand			70	100			
Shale & Sand			100	1035	Salt Water	5803	5803
Sand			1035	1564-29		5005	895
Lime			1564	1705-141		798	4908
Injun			1705	1740-35			
Shale			1740	4890			
Cornif. Lime			4890	5005-115			
Oriskany			5005	5055-50			
Lime & Dol.			5055	5803			
Newburg			5803	5818-15			
Lime McKenzie			5818	5820			
Total Depth				5820			

Test before fracturing: 4.46 MMCF  
Final Open Flow 6.400 MMCF (Side Static Test)  
Casing Points  
13-3/8" 181' Cemented 175-sks.  
9-5/8" 1807' Cemented 650-sks.  
7" 5806' Cemented 150-sks.  
Permit No. 2438  
Shut In 7" Casing 10-30-69  
Logs Run: Gamma Ray, Density

RECEIVED  
JAN 21 1970  
OIL & GAS DIVISION  
DEPT. OF MINES

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

- 1) Well Operator: Viking Energy Inc. 1095 51440 (P) 415
- Operator's Well Number: C. Neely #1 WV9528 3) Elevation: 894.38
- Well type: (a) Oil \_\_\_ / or Gas X / *Issued 07/22/96*  
*Expires 07/22/98*
- (b) If Gas: Production \_\_\_ / Underground Storage \_\_\_ /  
Deep \_\_\_ / Shallow X /
- Proposed Target Formation(s): 475 Oriskany Sand
- Proposed Total Depth: \_\_\_\_\_ 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 Oriskany Sand *Remove*
- 12) *Temp Plug*

REC  
WV Div  
Environmental  
JUL 0 2 1998  
Permitting  
Office of Oil & Gas

CASING AND TUBING PROGRAM

*Plug casing with New-Burg.*

TYPE	SPECIFICATIONS		Weight per ft.	For drilling	FOOTAGE INTERVALS	Left in well	CEMENT Fill-up (cu. ft.)
	Size	Grade					
Conductor	13			181'	181'	181'	175 SKs
Fresh Water	9 5/8			1807'	1807'	1807'	650 SKs
Coal							
Intermediate	7			5806'	5806'	5806'	150 SKs
Production							
Tubing	2			5812'	5812'	5812'	
Liners							

*Existing from well records.*

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Office of Oil and Gas Use Only

46 97  
30

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond Blanket  Agent  
 C.H. 624-96 (Type)

**RECEIVED**  
WV Division of  
Environmental Protection

JUL 02 1996

Permitting  
Office of Oil & Gas

- 1) Date: June 7, 1996
- 2) Operator's well number  
C. Neely #1 WV9528
- 3) API Well No: 47 - 039 - 2438 *PF*  
State County Permit

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
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 Pyramid Productions, Inc.  
Address P. O. Box 3233  
Charleston WV 24322
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (b) Coal Owner(s) with Declaration  
Name N/A  
Address \_\_\_\_\_
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Carlos Hively  
Address 223 Pinch Ridge Rd.  
Elk View, WV 25071  
Telephone (304) - 965-6069

**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  
 Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)  
 I certify that as required under Chapter 22 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:  
 Personal Service (Affidavit attached)  
 Certified Mail (Postmarked postal receipt attached)  
 Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

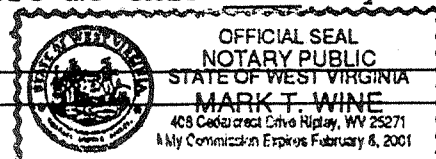
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, 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: \_\_\_\_\_  
 Its: Designated Agent  
 Address P. O. Box 13366  
Sissonville, WV 25360  
 Telephone 304-984-3389

Subscribed and sworn before me this 7 day of June, 1996

My commission expires \_\_\_\_\_



*Mark T. Wine* Notary Public

RECEIVED  
WV State  
Environmental Protection

AUG 19 1997

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Permitting  
Office of Oil & Gas Well Operator's Report of Well Work

Farm name: PYRAMID PRODUCTIONS INC. Operator Well No.: C. NEELY #1

LOCATION: Elevation: 894.38 Quadrangle: KENNA

District: POCA County: KANAWHA  
Latitude: 12950 Feet South of 38 Deg. 35Min. 0 Sec.  
Longitude 6800 Feet West of 81 Deg. 30 Min. 0 Sec.

Company: VIKING ENERGY CORPORATION  
P. O. BOX 13366  
SISSONVILLE, WV 25360-0000

Agent: MICHAEL PINKERTON

Inspector: CARLOS HIVELEY  
Permit Issued: 07/22/96  
Well work Commenced: 8-10-96  
Well work Completed: 7-10-97  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary Cable Rig  
Total Depth (feet) 5800  
Fresh water depths (ft) \_\_\_\_\_  
Salt water depths (ft) 1035

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): \_\_\_\_\_

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	5806	5806	
9 5/8	1807	1807	
13	181	181	

OPEN FLOW DATA

Producing formation SHALE Pay zone depth (ft) 3400-3500  
Gas: Initial open flow 150 MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow 100 MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests 24 Hours  
Static rock Pressure 200 psig (surface pressure) after 24 Hours

Second producing formation LOWER HURON Pay zone depth (ft) 3900-4000  
Gas: Initial open flow 30 MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow 30 MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests 24 Hours  
Static rock Pressure 200 psig (surface pressure) after 24 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 Corp  
VIKING ENERGY CORPORATION  
By: Michael S. Pinkerton  
Date: 8-18-97

SEP 22 1997

FRAC WELL 1ST STAGE 3417-3465 8 HOLES

NITROGEN FRAC 799,000 SCF N<sub>2</sub>, 500 GAL 15% HCL, BKDN

2977PSI ATP 2677PSI, AIR 50740SCF/MIN, ISIP 2222PSI, 5MIN

SI 1920

2ND STAGE 3865-3879 15 HOLES

NITROGEN FRAC 799,000 SCF N<sub>2</sub> 500GAL 15% HCL, BKDN 3856PSI

ATP 3651 PSI AIR 38217 SCF/MIN., ISIP, 5MIN. SI 2135 PSI