

FILE NO. _____ DRAWING NO. _____ SCALE <u>1" = 400'</u> MINIMUM DEGREE OF ACCURACY <u>1' IN 200'</u> PROVEN SOURCE OF U.S.G.S. DATA <u>ELEVATION INTERSECT RT. 21 & CEDARVIEW</u> <u>HELVETS ROAD, ELEV. 812.00'</u>	I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES. (SIGNED) <u>[Signature]</u> R.P.E. _____ L.L.S. <u>1967</u>	PLACE SEAL HERE
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS FORM IV-6 (8-78)	WV DEP Division of Oil & Gas #10 McJunkin Rd. Nitro, WV 25143-2506	DATE <u>JANUARY 5</u> , 19 <u>2000</u> OPERATOR'S WELL NO. _____ API WELL NO. <u>47</u> - <u>039</u> - <u>02196W</u> STATE COUNTY PERMIT
Oil & Gas Division		
WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___ (IF "GAS", PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___)		
LOCATION: ELEVATION <u>862.65'</u> WATER SHED <u>MARTIN BRANCH</u> DISTRICT <u>UNION</u> COUNTY <u>KANAWHA</u> QUADRANGLE <u>Pocatalico 7.5'</u>		
SURFACE OWNER <u>BROOKS F. McCABE, ET AL. (N/F)</u> ACREAGE <u>305</u> OIL & GAS ROYALTY OWNER <u>BROOKS F. McCABE, ET AL. (N/F)</u> LEASE ACREAGE <u>305</u> LEASE NO. _____		
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____		
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___		
TARGET FORMATION _____ ESTIMATED DEPTH _____		
WELL OPERATOR <u>VIKING ENERGY, INC.</u> DESIGNATED AGENT <u>MICHAEL PINKERTON</u> ADDRESS <u>P.O. BOX 13366</u> ADDRESS <u>SAME AS OPERATOR</u> <u>SISSONVILLE, WV. 25360</u>		

DGGP well

6-6 Rocky Fork 312

KAN 2196W

SEP 22 2000

CHARLESTON BLUEPRINT 087163

Janie
1/30/95

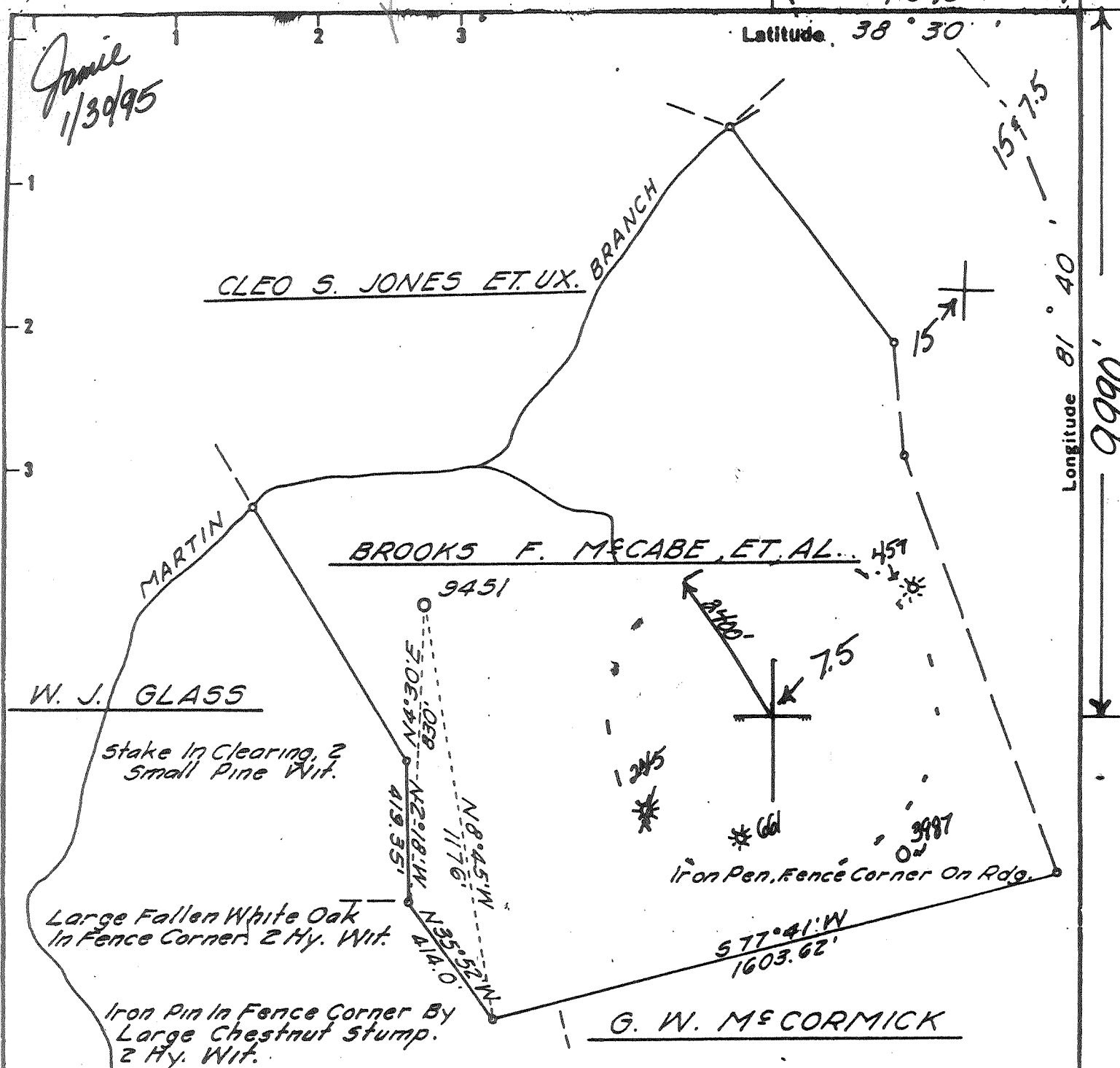
4370'

Latitude 38° 30'

1597.5

Longitude 81° 40'

9990'



BENCH MARK DESCRIPTION

U.S.G.S. standard Disk Stamped T.T. 24 G.B.G.
In Concrete Monument 1 Foot Above Ground At The
Intersection Of U.S. Route No. 21 And Cedarview
Heights Road. Elev. 812.00'

DEGREE OF 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 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 Mining Regulations.
PROVEN ELEVATION 812.00'

Company Viking Energy
Address Box 1336, Nixonville, W. Va. 25360
Farm Janie (Landon) 601 Pawnee Dr. Ches. W. Va. 25312
Tract _____ Acres 305 Lease No. 62399 ET. AL.
Well (Farm) No. _____ Serial No. 9451
Elevation (Spirit Level) 862.65'
Quadrangle CHARLESTON 15/Potatoes 7.5
County KANAWHA District UNION
Engineer O. L. Janie
Engineer's Registration No. 2712
File No. 58-67 Drawing No. _____
Date OCT. 26 '67 Scale 1" = 400'

STATE OF WEST VIRGINIA
Division of Environmental Protection
Office of Oil & Gas
Nixon, W.V.

WELL LOCATION MAP
Oil Well No. 47-039-02196-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.

JUL 14 1997

KAN 2196 W

*Janie
1/30/95*

Latitude 38° 30'

4370'

Longitude 81° 40'

9990'

CLEO S. JONES ET. UX.

BRANCH

BROOKS F. McCABE, ET. AL.

MARTIN

W. J. GLASS

*Stake in Clearing, 2
Small Pine Wit.*

*Large Fallen White Oak
In Fence Corner. 2 Hy. Wit.*

*Iron Pin in Fence Corner By
Large Chestnut Stump.
2 Hy. Wit.*

G. W. McCORMICK

9451
S. 05° 34' N
419.95'
N. 8° 45' W
1176'
N. 35° 52' W
1114.0'

15' 7.5'
1.90S
0.83W
1.90S
0.83W
577° 41' W
1603.62'
Iron Per. Fence Corner On Rdg.

BENCH MARK DESCRIPTION

*U.S.G.S. Standard Disk Stamped T.T. 24 O.B.G.
In Concrete Monument 1 Foot Above Ground At The
Intersection Of U.S. Route No. 21 And Cedarview
Heights Road. Elev. 812.00'*

DEGREE OF ACCURACY

One Part In 200

- Fracture Before 6/5/29.
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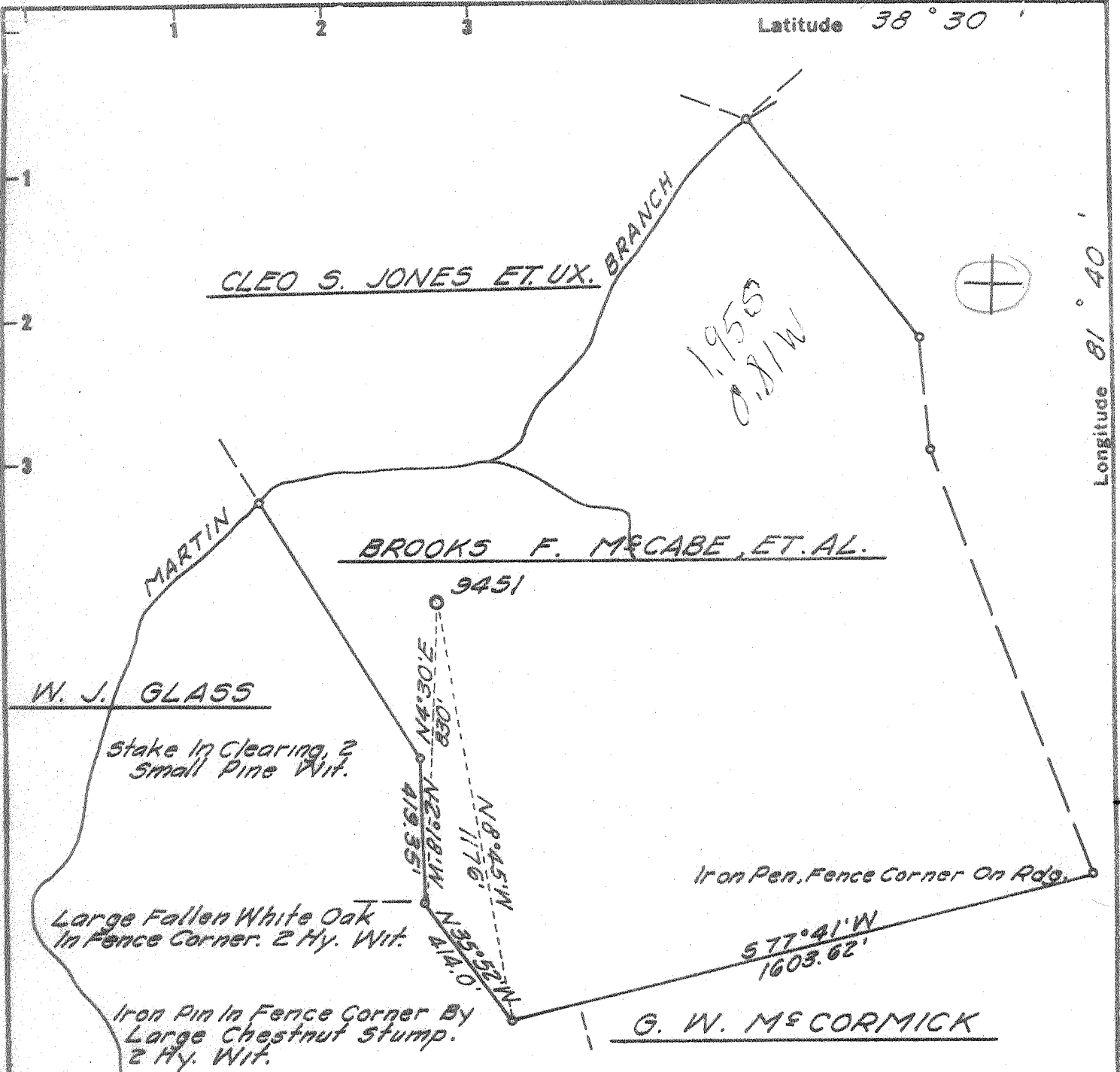
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The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mining Regulations.
PROVEN ELEVATION 812.00'

Company Viking Energy
Address Box 1336, Unionville, W. Va. 25360
Farm Janet Lenderman, 601 Pawnee Dr. Char. W. 25312
Tract _____ Acres 305 Lease No. 62399 ET. AL.
Well (Farm) No. _____ Serial No. 9451
Elevation (Spirit Level) 862.65'
Quadrangle CHARLESTON 15/Potatuck 7.5
County KANAWHA District UNION NW
Engineer O.L. Janie
Engineer's Registration No. 2712
File No. 58-67 Drawing No. _____
Date OCT. 26 '67 Scale 1" = 400'

STATE OF WEST VIRGINIA
Division of Environmental Protection
Office of Oil & Gas
Hinton, W.V.
WELL LOCATION MAP
GR Well No. 47-039-02196-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.

Latitude 38° 30'

Longitude 81° 40'



BENCH MARK DESCRIPTION

U.S.G.S. standard Disk Stamped T.T. 24 G.B.G. In Concrete Monument 1 Foot Above Ground At The Intersection Of U.S. Route No. 21 And Cedarview Heights Road. Elev. 812.00'

DEGREE OF 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 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. **PROVEN ELEVATION 812.00'**

Company UNITED FUEL GAS CO.
 Address CHARLESTON, W. VA.
 Farm BROOKS F. McCABE ET. AL.
 Tract _____ Acres 305 Lease No. 62399 ET. AL.
 Well (Farm) No. _____ Serial No. 9451
 Elevation (Spirit Level) 862.65'
 Quadrangle CHARLESTON NW
 County KANAWHA District UNION
 Engineer O.S. Jones
 Engineer's Registration No. 2712
 File No. 58-67 Drawing No. _____
 Date OCT. 26 '67 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. KAN-2196

+ 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.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle Charleston
Permit No. KAN-2196

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company <u>United Fuel Gas Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>P.O. Box 1273 Charleston, W. Va. 25325</u>				
Farm <u>Brooks F. McCabe, et al</u> Acres <u>305 Merger</u>	Size			
Location (waters) <u>Martin Branch</u>	16			Kind of Packer
Well No. <u>9451</u> Elev. <u>862.65'</u>	13 <u>3/8"</u>	<u>126'</u> Cemented to surf.		
District <u>Union</u> County <u>Kanawha</u>	10			Size of
The surface of tract is owned in fee by	9 5/8"	<u>1947'</u> Cemented from <u>1947</u> to Surf.		Depth set
Address	7 3/8"	<u>5611'</u> Cemented from <u>5625</u> to <u>4800'</u>		
Mineral rights are owned by <u>Brooks F. McCabe, et al</u>	<u>5 3/16"</u>			Perf. top
<u>Capitol City Bldg.</u> Address <u>Charleston, W.Va. 25301 1/2</u>				Perf. bottom
Drilling commenced <u>Nov. 8, 1967</u>	3			Perf. top
Drilling completed <u>Nov. 15, 1967</u>	2			Perf. bottom
Date Shot From To	Liners Used			Perf. top
With				Perf. bottom

Attach copy of cementing record.

Open Flow /10ths Water in _____ Inch	CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
Volume <u>14,100,000 Newburg</u> Cu. Ft.	Amount of cement used (bags) _____
Rock Pressure <u>2154 D.W. lbs.</u> hrs.	Name of Service Co. _____
Oil _____ bbls., 1st 24 hrs.	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
WELL ACIDIZED (DETAILS) _____	_____ FEET _____ INCHES _____ FEET _____ INCHES
WELL FRACTURED (DETAILS) _____	_____ FEET _____ INCHES _____ FEET _____ INCHES

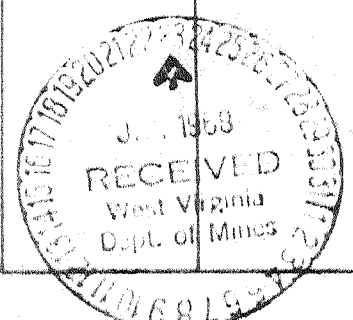
RESULT AFTER TREATMENT (Initial open Flow or bbls.) 14,100 MCF

ROCK PRESSURE AFTER TREATMENT _____ HOURS

Fresh Water _____ Feet Salt Water _____ Feet

Producing Sand Newburg Depth 5692

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			0	10	Hole wet in Injun		
Sand-Shale			10	125			
Sand			125	230	Show gas in Oriskany		
Sand - Shale			230	715			
Sand			715	914	Show sulphur gas 5230'		
Sand - Shale			914	1715			
Big Lime			1715	1830	Gas 5692' 70/10 Merc. 4" 5,180 M		
Shale			1830	1850			
Injun Sand			1850	1900	Test before fracture- 55/10 Merc. 4"		
Shale			1900	2320	4,591 M		
Berea			2320	2330	Fractured Newburg 11-20-67 with 27,000#		
Shale			2330	4841	20-40 sand, 1000 gallons 15% acid,		
Corniferous Lime			4841	4938	1000# J-111, 600# J-84, 20 gallons		
Oriskany Sand			4938	4970	Proflo, 30 gallons F-52, 1000 bbls.		
Helderberg Lime			4970	5200	water. Final open flow after fracture-		
Dolomite			5200	5691	7# Side Static 14,100 MCF		
Newburg Sand			5691	5707			
Sandy Dolomite (McKenzie)			5707	5736			
Total Depth			5736'		Shut in 11-16-67 in 2-3/8" tubing.		



STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

20168

- 1) Well Operator: Viking Energy Inc. 1095 51440 (9)
2) Operator's Well Number: WV2196 WV 9451 3) Elevation: 862.65
4) Well type: (a) Oil / or Gas X /
(b) If Gas: Production / Underground Storage / Deep X / Shallow /
5) Proposed Target Formation(s): Shale sand 44)
6) Proposed Total Depth: 4841 feet
7) Approximate fresh water strata depths: N/A
8) Approximate salt water depths: N/A
9) Approximate coal seam depths: N/A
10) Does land contain coal seams tributary to active mine? Yes / No X /

11) Proposed Well Work: perforate and fracture Shale Sand

12) Permanent Plug back to Frac Brown shale.

CASING AND TUBING PROGRAM

Table with columns: TYPE, SPECIFICATIONS, FOOTAGE INTERVALS, CEMENT. Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, and Liners. Includes handwritten notes like 'Return for records' and '5611'.

PACKERS : Kind, Sizes, Depths set. Includes handwritten notes: 'if any other formations up hole. Spacers should extend above the perforation at least 10''

For Division of Oil and Gas Use Only

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

- 1) Date: January 18, 1995
- 2) Operator's well number
McCabe #1 WV9451
- 3) API Well No: 47 - 039 - 2196 - FRAC
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name Jerrell Clendenin
Address 601 Pawnee Dr
Charleston, WV. 25312
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 6) Inspector Carlos Hivley
Address 223 Pinch Ridge Rd.
Elk View, WV. 25071
Telephone (304)-965-6069

- 5) (a) Coal Operator:
 - Name _____
 - Address _____
- (b) Coal Owner(s) with Declaration
 - Name _____
 - Address _____
- (c) Coal Lessee with Declaration
 - Name _____
 - Address _____

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:

- Personal Service (Affidavit attached)
- X 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.

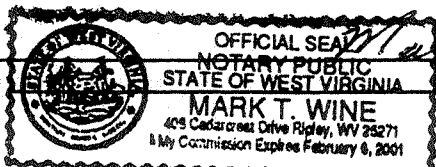
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true,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

Subscribed and sworn before me this 18 day of January, 1995

My commission expires _____



Mark T. Wine Notary Public

ATB

State of West Virginia
Department of Environmental Protection
Office of Oil & Gas

RECEIVED
Office of Oil & Gas
Office of Chief
FEB 09 2004
WV Department of
Environmental Protection

Well Operators Report of Well Work

Operators well name: Viking Energy
Farm Name: _____ Operator # 51440

Location: Elevation 862.5 Quadrangle: POCATAHICO
District Union County: Kanawha
Latitude: _____ Feet 30 of 00 Deg. 38 Min. _____ Sec.
Longitude: _____ Feet 40 of 00 Deg. 81 Min. _____ Sec.

Company: Viking Energy
Address: PO Box 13366
Sissonville, WV 25360

Agent:	Mickey Pinkerton	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill up Cu Ft		
Inspector	CARLOS HIVELY						
Date Permit Issued	<u>9-20-01</u>	<u>13 3/8</u>		<u>126'</u> FT		Sks	CU FT
Date Well Work Commenced	<u>07/09/03</u>	<u>9 5/8</u>		<u>1947</u> FT		Sks	CU FT
Date Well Work Completed	<u>9-11-03</u>	<u>7</u>		<u>5611</u> FT		Sks	CU FT
Verbal Plugging:		<u>2"</u>		<u>5200</u> FT		Sks	CU FT
Date Permission Granted On						Sks	CU FT
Rotary X Cable RIG							
Total Depth (feet):							
Fresh Water Depth:							
Salt Water Depth							
Is coal being mined in area ?							
Coal Depths							

OPEN FLOW DATA:

GAS: Producing Formation: Oriskany Pay zone depth (ft) 4918 to 4945
Initial Open Flow: 80 MCF/d OIL: Initial Open Flow: _____ Bbl/d
Final Open Flow: 50 MCF/d Final Open Flow: _____ Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock pressure: 100 PSI (surface pressure) after 24 Hours

GAS: Second producing formation: _____ Pay zone depth (ft) _____ to _____
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: _____ PSI (surface pressure) after _____ Hours

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

Signed: M. Pinkerton
By: Viking Energy
Date: 2-4-04

MAR 19 2004
APR 2 2004

KAN 2196 F

DEEP WELL

WR - 35
Rev (5-01)

Date: 07/28/03
API # 47-039-02196F

State of West Virginia
Department of Environmental Protection
Office of Oil & Gas

Operators well name: Viking Energy
Farm Name: 0 Operator # 41350

Company: Reed Gas Inc.
Address: 1206 Kanawha Blvd. E.- Suite 201
Charleston, WV 25301

GEOLOGICAL RECORD

Description:	Top	Bottom
NA Well is a rework		

Additional Comments: ** WR-34 No Fluid discharged
Fluid was hauled to 47-039-2291
E.E. Beane Well for discharge.
Form will be with that well.*

APR 19 2004

Viking Energy
PO Box 13366
Sissonville, WV 25360

RE: REWORK OF McCabe # 1

API # 47-039-02196f

Moved in rig and tripped tubing and prep well

7/13/2003 Moved in Key Energy/ Run Gamma Ray & CCL/ Set a 7" bridge plug at 5050 ft.
Perforate with 10 holes from 4918 to 4924 and 10 holes from 4939 to 4945
Moved in BJ Services and dropped 500 gals 15% HCl acid treated for iron, clay and with
a non-emulsifier. Contact of acid and iron sulfide on tubulars created H₂S. Monitor set
up. H₂S dissipated and work continued.
Run in hole with a Baker 2 7/8 X 7" set down packer and set packer at 4827 (cement top
estimated at 4800 ft)

7/14/3003 Move in and rig up BJ Services. Fraced through 2 7/8 tubing at an average rate of 12.4
BPM. 26,320 Lbs of 20/40 sand was placed at a max concentration of 4 Lbs. Per gal.
Well was screening out. Shut down early. Planed Sand was 40,000 lbs. Post frac analysis
shows excessive leak off caused the premature screen out. Well would have flushed all
the way but BJ unit started to leak causing and early shut down of 15.5 bbls.

Max treating pressure	5230
Min. treating Pressure	3580
Avg. treating pressure	4405
ISDP	3250
5 Min shut in	1930
10 Min	1560
15 Min	1200
25 Min	600
Fluid used	358 bbls crosslinked
Release packer and trip out of hole	

Turn over to Viking Energy for flow back and clean up.

~~MAR 18 2004~~
MAR 19 2004

KAN 2196 F