

"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."

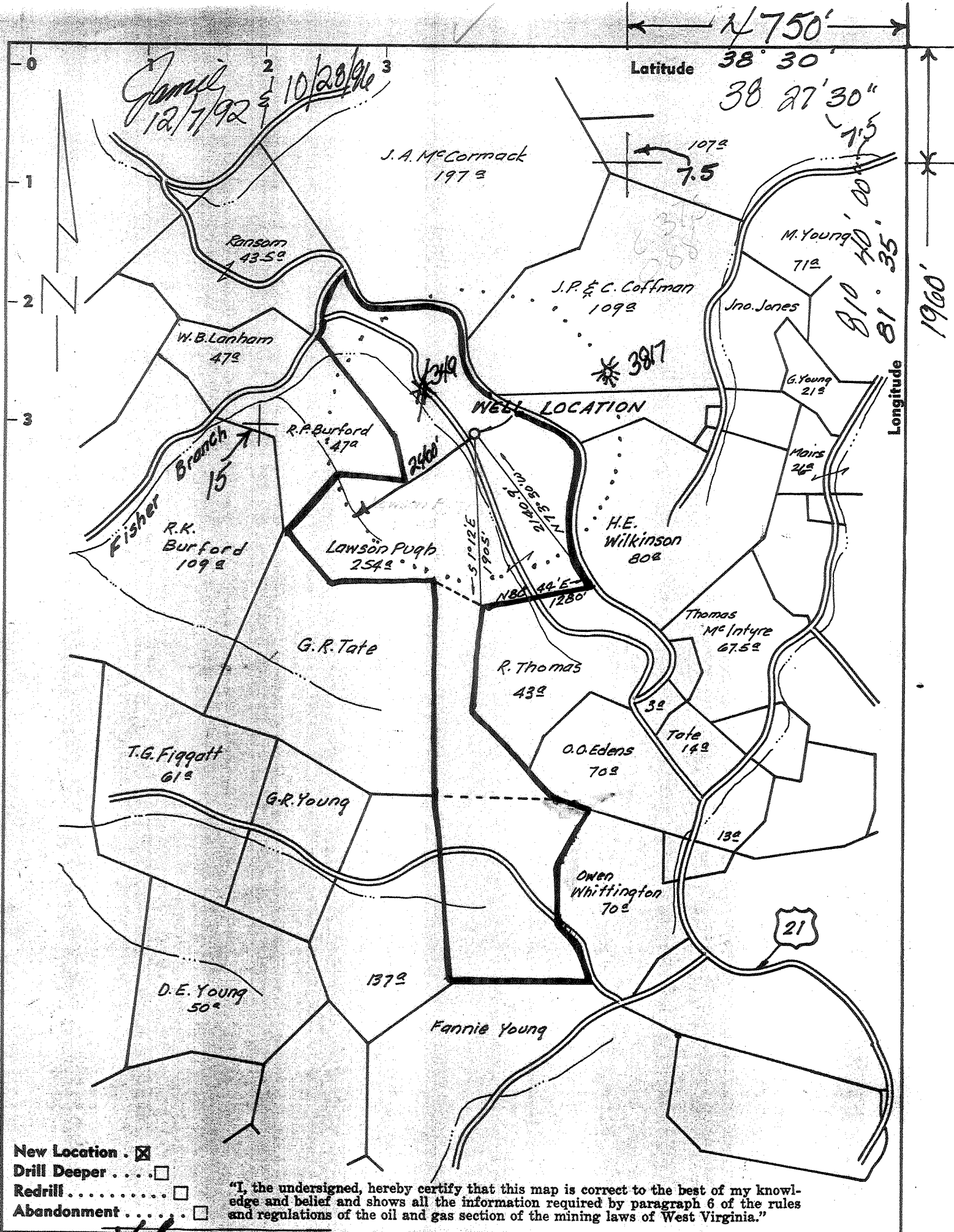
Company Viking Energy
 Address PO Box 13366, Jessonsville, WV 25360
 Farm LAWSON PUGH (Joseph H. Hodges Bishop)
 Tract _____ Acres 254 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 878.27'
 Quadrangle Charleston, 15/locatalicio 7.5
 County Kanawha District Union
 Engineer Arthur S. Bank
 Engineer's Registration No. 1530
 File No. 5-408A Drawing No. _____
 Date October 11, 1967 Scale 1"=1320'

STATE OF WEST VIRGINIA
 Div. of Environmental Protection
 Office of Oil & Gas
 Nitro, WV

WELL LOCATION MAP
 API well No. 47-039-2199-True

Walter Duncan drilled in 1967 TD 5745' Newbuck production Viking Energy Permissively plugged the well back in 1992 and fractured the lower shale section Viking to squeeze 5 1/2" and True bore and app. shale 0.8 1999

KAN 2199 F CAN 2199 F



Company Viking Energy

Address PO Box 19366, Simpsonville, WV 25366

Farm Lawson Pugh (Joseph H. Hedge Bishop)

Tract _____ Acres 254 Lease No. _____

Well (Farm) No. 1 Serial No. _____

Elevation (Spirit Level) 878.27'

Quadrangle Charleston 15/Potomac 7.5

County Kanawha District Union

Engineer Arthur S. Kuhn

Engineer's Registration No. 1530

File No. 5-408A Drawing No. _____

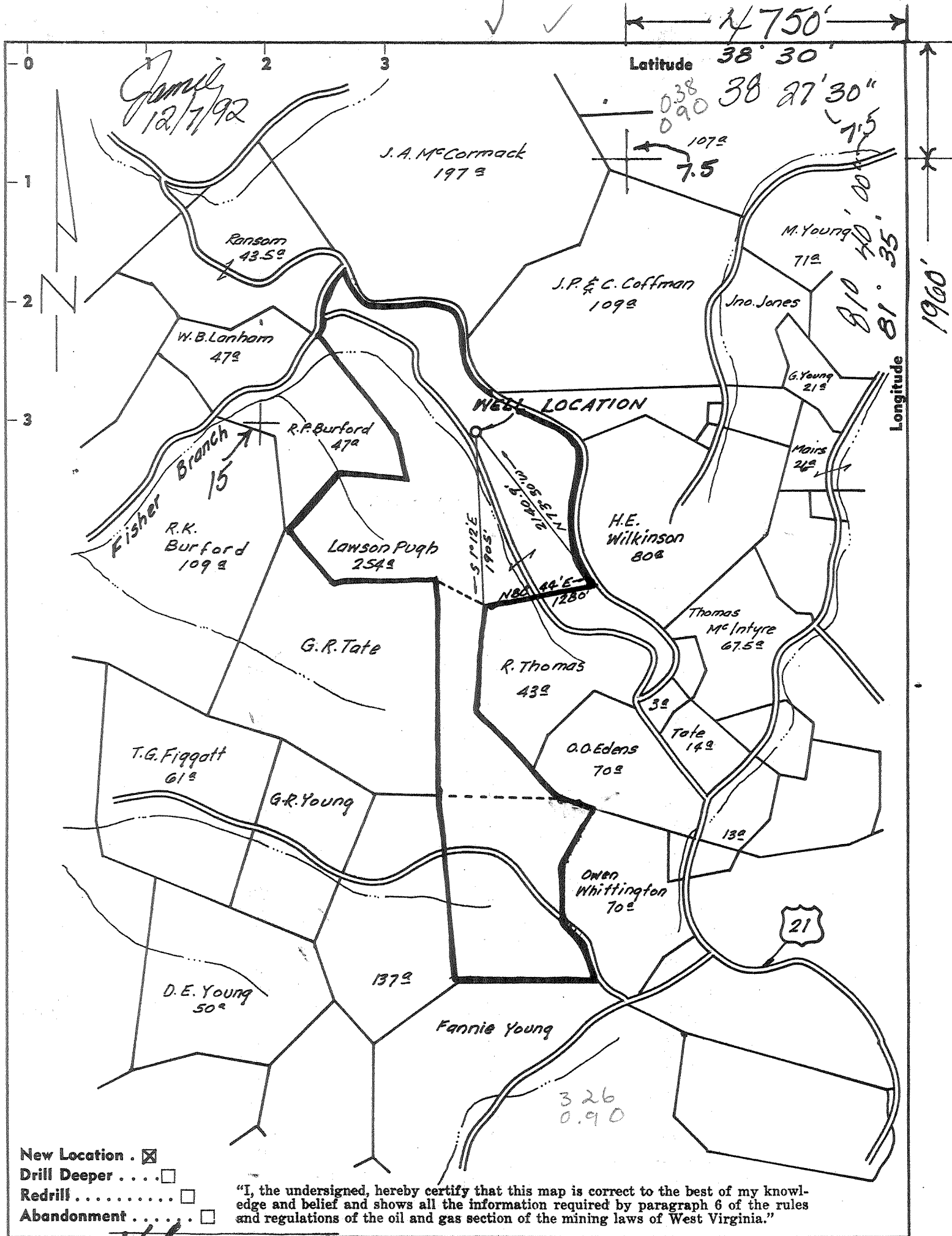
Date October 11, 1967 Scale 1" = 1320'

STATE OF WEST VIRGINIA
 Div. of Environmental Protection
 Office of Oil & Gas
 Nitro, WV

WELL LOCATION MAP
 API well no. 47-039-2199-~~Free~~

Walter Duncan drilled in 1967 TD 5745' Newburg production Viking Energy permanently plugged the well back in 1992 and fractured the lower shale section Viking to squeeze 5 1/2" and free Berea and upper shale.

KAN 2199 F



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

Company Viking Energy 1095

Address PO Box 13966, Sissonville, W.V. 25360

Farm Lawson Pugh (Joseph H. Hodges Bishop)

Tract _____ Acres 254 Lease No. _____

Well (Farm) No. 1 Serial No. _____

Elevation (Spirit Level) 878.27' NW

Quadrangle Charleston, 15 / Potomac 75

County Kanawha District Union 9 NW

Engineer Arthur S. Bush

Engineer's Registration No. 1530

File No. S-408A Drawing No. _____

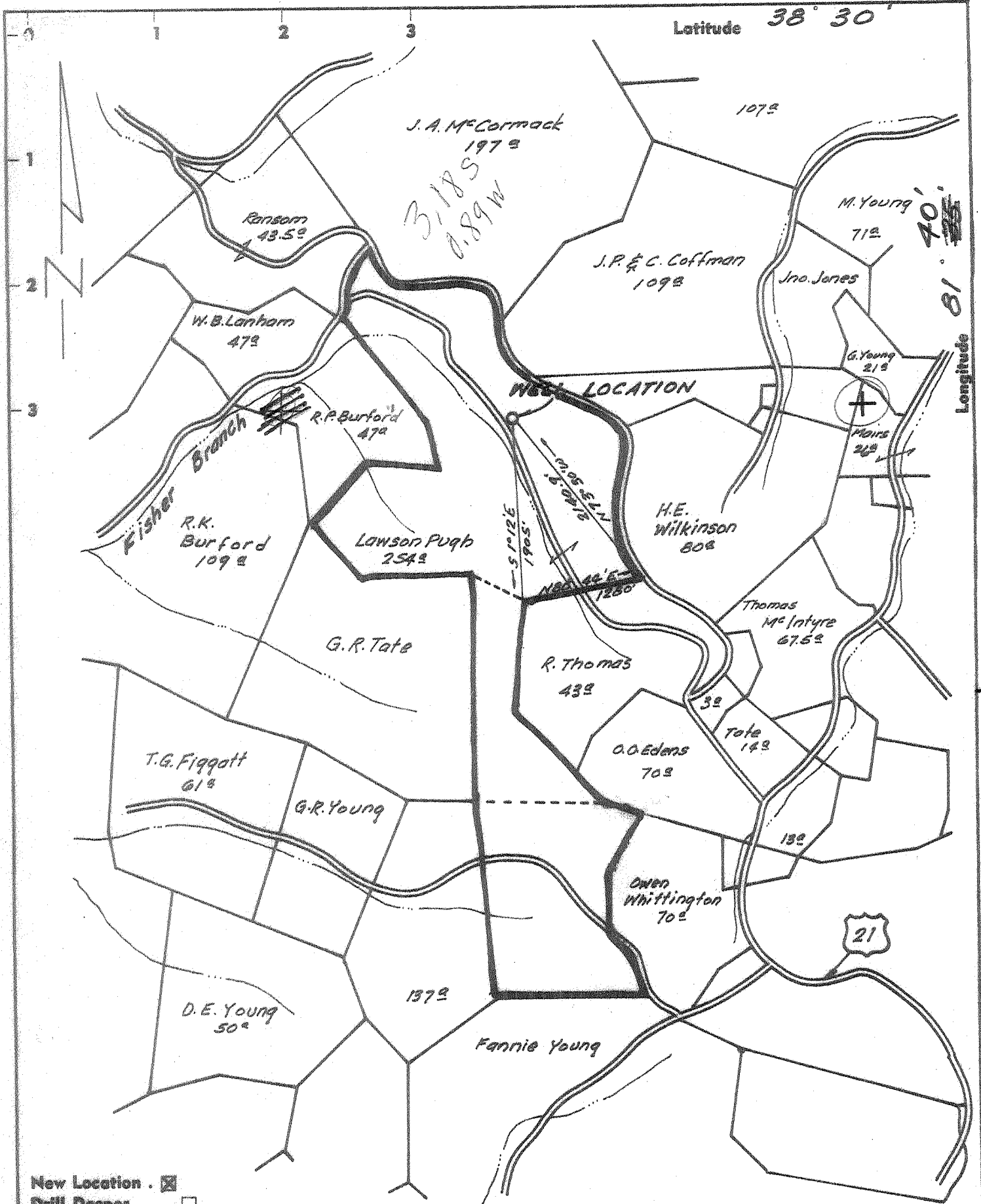
Date October 11, 1967 Scale 1" = 1320'

STATE OF WEST VIRGINIA
 Div. of Environmental Protection
 Office of Oil & Gas
 Nitro, W.V.

WELL LOCATION MAP
 API well no. 47-039-2199-7ac

+ 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.



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

Company TRA-VAN Tux
 Address 711 HULMAN Bldg. EVANSVILLE, IND.
 Farm Lawson Pugh
 Tract _____ Acres 254 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 878.27'
 Quadrangle Charleston, W.Va. NW
 County Kanawha District Union
 Engineer Arthur A. Bush
 Engineer's Registration No. 1530
 File No. 5-408A Drawing No. _____
 Date October 11, 1967 Scale 1"=1320'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. KAN-2199

+ 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 INDUSTRIAL RELATIONS
Division of Mines

WELL RECORD

Jan. 2199

Type of well: Dry, gas, oil, combination oil and gas, brine or artificial brine well Production Gas

Company <u>IRA VAN TUYL</u> Address <u>HILMAN BLDG. EVANSVILLE, IND.</u> No. well <u>1</u> Elev. <u>872</u> ^{KB} Acres <u>254</u> Farm <u>LANSON PUGH</u> County <u>KANAWHA</u> Twp. _____ Sec. <u>UNION DIST., WEST VIRGINIA</u> Lot _____ Drilling Commenced <u>11/30/67</u> Drilling Completed <u>12/23/67</u> Date Shot _____ From _____ To _____ With _____ Open flow _____ /10ths Water in _____ inch _____ /10ths Merc. in _____ Volume <u>30,000 MCF Natural</u> ^{30,000 MCF} _{47,300 MCF} Cu. Ft. Rock Pressure <u>2085</u> lbs. _____ hrs. Oil _____ bbls. 1st 24 hrs. Fresh Water _____ Feet _____ Feet Salt Water _____ Feet _____ Feet	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Casing and Tubing</th> <th style="text-align: center;">Used in Drilling</th> <th style="text-align: center;">Left in Well</th> <th style="text-align: center;">Packers</th> </tr> <tr> <td style="text-align: center;">26</td> <td></td> <td></td> <td style="text-align: center;">Kind of Packer</td> </tr> <tr> <td style="text-align: center;">262.06' 13' 3/8 @ 252' W/</td> <td></td> <td style="text-align: center;">225 sks</td> <td style="text-align: center;">Cement</td> </tr> <tr> <td style="text-align: center;">13</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">20</td> <td></td> <td></td> <td style="text-align: center;">Size of</td> </tr> <tr> <td style="text-align: center;">2011.54' 8-5/8 @ 2008' W/</td> <td></td> <td style="text-align: center;">150 sks</td> <td style="text-align: center;">cement</td> </tr> <tr> <td style="text-align: center;">8-1/4</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">6-5/8</td> <td></td> <td></td> <td style="text-align: center;">Depth Set</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">Perf. top</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">Perf. bottom</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">Perf. top</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">Liners Used</td> </tr> </table>	Casing and Tubing	Used in Drilling	Left in Well	Packers	26			Kind of Packer	262.06' 13' 3/8 @ 252' W/		225 sks	Cement	13				20			Size of	2011.54' 8-5/8 @ 2008' W/		150 sks	cement	8-1/4				6-5/8			Depth Set				Perf. top				Perf. bottom				Perf. top				Liners Used
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			Liners Used																																														

Middling Record _____

Casing Cemented 5 1/2" @ 5690' W/250 sks. Cement No. Feet _____ Date _____

Coal was encountered at _____ Feet _____ Inches _____ Inches

Name of Formation	Color	Hard or Soft	Top	Bottom	Oil, gas or Water	Depth Found	Remarks
SAND ROCK			0	77			
RED ROCK			77	105			
SHALE			105	149			THE UNDERSIGNED, LOHMANN-JOHNSON
SAND			149	252			DRILLING CO., INC., HEREBY CERTIFIES
SHALE			252	810			THAT THE ABOVE IS A TRUE AND CORRECT
SAND			810	911			LOG OF THE FORMATIONS ENCOUNTERED IN
SHALE			911	988			DRILLING THIS WELL IN ACCORDANCE
SAND			988	1026			WITH THE DAILY DRILLING REPORTS.
SHALE			1026	1160			
SAND			1160	1533			LOHMANN JOHNSON DRILLING CO., INC.
SHALE & LIMESTONE			1533	1600			
SAND & CHERT			1600	1705			BY <u>Joe Koehn, Asst Secy</u>
SAND			1705	1725			SUBSCRIBED & SWORN TO THIS 9th
BIG LIME			1725	1915			DAY OF <u>January</u> , 1968
INDIAN SAND			1915	1953			
SHALE			1953	4885			
SAND			4885	5040			
SHALE			5040	5579			
SHALE & SAND			5579	5665			
CEMENT			5665	5678			<u>Helen F. Fields</u>
SHALE			5678	5744			NOTARY PUBLIC
SAND			5744 1/2	5745			MY COMMISSION EXPIRES
T.D.			5745				NOVEMBER 5, 1969.
Onondaga - 4885 - 4976 Oriskany - 4976 - 5006 Newburg - 5743 - 5745 <i>See 5744</i> TD 5745							

State of West Virginia
Division of Oil and Gas

Well Operator's Report of Well Work

Name: Hodges, Joseph H., Bishop Operator Well No. L. Pugh #1-W9751

LOCATION: Elevation: 878.27 Quadrangle: Pocatalico
District: Union County: Kanawha
Latitude: 1960 Feet South of 38 Deg. 27 Min. 30 Sec.
Longitude: 4750 Feet West of 81 Deg. 40 Min. 0 Sec.

Company:

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

Agent: Michael Pinkerton

Inspector: Carlos W. Hively

Permit Issued: 12-08-92

Well work Commenced: 12-08-92

Well work Completed: 12-17-92

Verbal Plugging _____

Permission granted on: _____

Rotary _____ Cable _____ Rig

Total Depth (feet) _____

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.
5 1/2"		*4640'	*166 cf
2 3/8"		4059'	

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 187 MCF/D Oil: Initial open flow 0 Bbl/d
Final open flow 157 MCF/D Final open flow 0 Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 810 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: W. Thomas Whit Consultant

DATE: 12-29-92

Reviewed TM6

Recorded _____

JUL 8 0 1993

STIMULATION SUMMARY

Partial Plugging Date:

Set 4.24 Bridge Plug @ 4650'

Squeeze Cement Data:

5 1/2" Casing perforated and squeeze cemented attaining 166 cf
fill-up to 3680'. Total Depth inside 5 1/2" at 4640'

Recompletion Data:

Devonian "Brown" Shale ^{813 813} 3940-4176' 22 holes
75 Quality foam frac 42,000 lbs 20/40 sand

See original record for additional formation information and flow data.

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

Issued 12/08/92
Expired 12/08/94
51440 (9) 289

- 1) Well Operator: Viking Energy Inc.
- 2) Operator's Well Number: L. Pugh #1 WV9751 3) Elevation: 878.27
- 4) Well type: (a) Oil / or Gas X/
(b) If Gas: Production / Underground Storage /
Deep / Shallow X/
- 5) Proposed Target Formation(s): Shale Sand 441
- 6) Proposed Total Depth: 5579 feet
- 7) Approximate fresh water strata depths: NA
- 8) Approximate salt water depths: NA
- 9) Approximate coal seam depths: NA
- 10) Does land contain coal seams tributary to active mine? Yes / No X/
- 11) Proposed Well Work: Perforate and fracture Shale Sand
- 12) formalizing plug Newburg with cement. Squeeze 5 1/2 frac shale.

RECEIVED
WV DEPT
Environmental Protection
NOV 06 92
Permitting
Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	13 3/8		252' - 225 SKS	266	266 ?	Cem to Surface
Fresh Water	8 5/8		2009' 150 SKS	1822	1822 ?	Cem to Surface
Coal						
Intermediate	5 1/2		5690' w/250 SKS	5473	5473 ?	
Production	2 3/8			6622	6622	
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

3754/36
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Agent
 (Type)

RECEIVED
WV Division of
Environmental Protection

NOV 06 92

Permitting
Division of Oil & Gas

- 1) Date: October 29, 1992
- 2) Operator's well number
L. Pugh #1 WV9751
- 3) API Well No: 47 - 39 - 2199 - Frac
State - County - Permit

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 Joseph H. Hodges, Bishop
Address 1300 Byron St P. O. Box 230
Wheeling WV. 26003
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 6) Inspector _____
Address _____
Telephone (304)- _____

- 5) (a) Coal Operator:
 - Name _____
Address _____
 - (b) Coal Owner(s) with Declaration
 - Name No Coal
 - Address _____
 - 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
 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)
- 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.

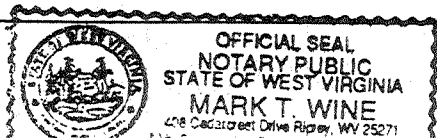
I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Wiking Energy Inc.
 By: Michael Finkerton
 Its: Designated Agent
 Address P. O. Box 13366
Sissonville, WV. 25360
 Telephone 304-984-3389

Subscribed and sworn before me this 5 day of November, 1992

Mark T. Wine Notary Public

My commission expires _____



039-2199-Frac.

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

- 1) Well Operator: Viking Energy, Inc. 51440 (9)
- 2) Operator's Well Number: L. Pugh #1 WV9751 3) Elevation: 878.27
- 4) Well type: (a) Oil ___ / or Gas Issued 10/29/96
 (b) If Gas: Production ___ / Underground Storage ___
 Deep ___ / Shallow Expires 10/29/98
- 5) Proposed Target Formation(s): Upper ⁴⁴¹Shale & Berea
- 6) Proposed Total Depth: 4855' 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
- 11) Proposed Well Work: Perforate and Fracture Upper Shale Sand and Berea Sand, set temporary plugs at shale and berea, and do squeeze job. 4585' 2000 to 2500'
- 12)

RECEIVED
WV Division of
Environmental Protection
OCT 23 1996
Permitting
Office of Oil & Gas

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			266	266 <u>252</u>	Cem To Surface
Fresh Water	8 5/8			1822	1822 <u>2008</u>	Cem To Surface
Coal						
Intermediate	5 1/2	<u>Squeeze</u>		5473	5473 <u>4640</u>	<u>Squeeze</u>
Production	2 3/8			6622	6622 <u>4059</u>	
Tubing						
Liners						

A.H. 10-31-96

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

5120/54
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond CR Blanket Agent
(Type)

1) Date: October 14, 1996
2) Operator's well number
L. Pugh #1 WV9751
3) API Well No: 47 - 039 - 2199 - F
State County Permit

RECEIVED
WV Division of
Environmental Protection
OCT 23 1996

Permitting
Office of Oil & Gas
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 Joseph H. Hodges, Bishop
Address 1300 Byron St. P. O. Box
230 Wheeling, WV 26003
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Carlos Hivley
Address 223 Pinch Ridge Rd.
Elkview, WV 25071
Telephone (304)-965-6069

5) (a) Coal Operator:
Name N/A
Address _____
(b) Coal Owner(s) with Declaration
Name NA
Address _____
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 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)
- X 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.

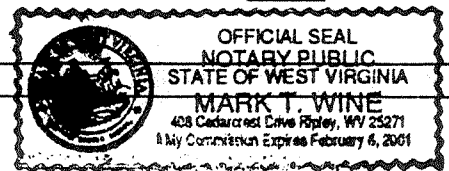
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true,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

Subscribed and sworn before me this 14 day of October, 1996

My commission expires _____



Mark T. Wine Notary Public