





Plot\_ Log\_\_ Card\_ CSD Mflm224 38° 30 Latitude 1078 J. A. McCormack J.P. & C. Coffman Ino. Jones 1098 2/9 LOCATION 200 H.E. Wilkinson Lawson Pugh 808 2549 Me Intyre G. R. Tate R. Thomas 433 Total O.O.Edens 703 130 1379 Fannie Young "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." STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION CHARLESTON WELL LOCATION MAP FILE NO. KAN-2/99 Denotes location of well on United States

Abandonment . . . . . . Company TRA-YAN THY Address 701 HULMAN GLAW . EVANS VILLE , INL Lawson Pugh Acres 254 Well (Farm) No.\_\_\_\_\_ Serial No. Elevation (Spirit Level) 378.27 Quadrangle Charleston, M.Va. N.V. County KERRY 19 District 40100 Engineer's Registration No. File No. 5-408 A \_\_Drawing No. Dese October 14.1967 Scole

- 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.

eep well (New-burg)

ALLEN BLUEPRINT & SUPPLY CONOV 2 4 1967

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Ransom 43.5°

W. B. Lanham

Burford

109 2

T.G. Figgatt

D.E. Young 50

New Location . 🗵 Drill Deeper . . . . .

Rodrill . . . . . . . . . . . . . . . . . .

G-R. Young

# Scace of West Virginia DEPARTMENT OF INDUSTRIAL RELATIONS

Division of Mines

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Name of Formation  SAND ROCK REDROCK STALE SAND STALE SAND STALE SAND SHALE SAND	Color	SizeFeet  Hard or Soft	Top  0  77  105  140 252  840 011  088 1026  1160 1533 1600 1705 1725 1915 1953 4885 5040 5665	Rottom  77 105 149 252 840 911 988 1020 1160 1533 1600 1705 1525 1915 1953 4885 5040 5579 5665	Oil, gas or Water  THE UNDE DRILLING THAT THE LOG OF THE LOHN BY SUBSCRIPT TOE LOHN BY SUBSCRIPT TOE LOFT TOE LOTT TOE L	Depth Found  RSIGNED  CO., IN AROVE I FE FORM TILLS WE DAILY I ANN JOHN	LOPMAN GC., HEI S. A. TRI THONS F TLL. IN PRILLING SON DRI ASST 3 FORN TO	Inche  NN_JOUNSON REBY CERT I LE AND COR ENCOUNTERP ACCORE ANCE THE REPORTS THIS 9 to	s Figure 1
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Name of Formation  SAND ROCK REDROCK SPALE SAND SPALE SAND SHALE SAND BIGLIME INILA SAND SHALE SAND CEMENT SHALE SAND COMORGAGA Griskany	Color  Color  Secut Repo	Feet  Hard or Soft  Z Feb 20	Top  O  O  O  TO  105  149  252  810  911  988  1026  1160  1533  1600  1725  1915  1953  4885  5040  574444  57445	Rottom  77 105 149 252 840 911 988 1026 1160 1533 1600 1705 1525 1915 1953 4885 5579 5665 5678 5744½	Oil, gas or Water  THE UNDE DRILLING TOAT TUE LOG OF TENTILLING WITH THE LOHN  BY SUBSCRI DAY OF J  NOTAR WY-GO	Depth Found  RSIGNED, CO., IN ABOVE I TE FORM TILLS WE DAILY I ANN JOHN  ANN JOHN  FOUND, BED & SW	LOPMAN GC., HEI S. A. TRI THONS FILL IN PRILL INC.  SON DRI ASSC 3 FORN TO  1962	Inche  NN_JOUNSON REBY CERT I LE AND COR ENCOUNTERP ACCORE ANCE OF REPORTS THIS 9 to	s FI

### State of West Virginia Division of Oil and Gas

## Well Operator's Report of Well Work

Name: Hodges, Joseph H., Bishop	perator N	Well No. <u>I</u>	. Pugh	#1-W9751
LOCATION: Elevation: 878.27 District: Union Latitude: 1960 Feet Sou Longitude: 4750 Feet Wes	Quadrang Coun 1th of 38	le: Pocata ty: Kanawl Deg. 27	alico na Min. 30	Sec.
Company: Viking Energy Corporation P.O. Box 13366 Sissonville, WV 25360 Agent: Michael- Pinkerton		Used in Drilling		
Inspector: Carlos W. Hively Permit Issued: 12-08-92 Well work Commenced: 12-08-92	Size 5 1/2"		*4640	*166 cf
Well work Completed: 12-17-92  Verbal Plugging  Permission granted on: Rotary Cable Rig	2 3/8"		40591	
Total Depth (feet)Fresh water depths (ft)				
Salt water depths (ft) n/a				
Is coal being mined in area (Y/N)? Coal Depths (ft): OPEN FLOW DATA	N *	See Back		
Producing formation <u>Devonian Shale</u> Gas: Initial open flow <u>187 MCF</u> Final open flow <u>157 MCF</u> Time of open flow between init  Static rock Pressure <u>810 psig</u> (s	/D Oil:I /D Final ial and f	nitial op open flo inal test	en flow_ w0 s24	0Bbl/d _Bbl/d Hours
Second producing formation  Gas: Initial open flow MCF/D O  Final open flow MCF/D  Time of open flow between init  Static rock Pressure psig (su	Final o ial and f	pen flow_ inal test	s	bi/d Hours
NOTE: ON BACK OF THIS FORM PUT THE PERFORATED INTERVALS, FRACTURING OR ETC. 2). THE WELL LOG WHICH IS A SY RECORD OF ALL FORMATIONS, INCLUDING	STIMULAT STEMATIC	'ING, PHYS DETAILED	ICAL CHA GEOLOGIC	NGE, AL
FOR: Viking  BY: ()  Corded DATE: 12-29	Thorne	corporatio s Whit	)	sultant
3				

#### 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 3940-4176' 22 holes 75 Quality foam frac 42,000 lbs 20/40 sand

See original record for additional formation information and flow data.

FORM WW-2B Page\_ STATE OF WEST VIRGINIA 12/08/92 DEPARTMENT OF ENERGY, DIVISION OF OIL WELL WORK PERMIT APPLICATION
1095 Viking Energy Inc. 1) Well Operator: Operator's Well Number: L. Pugh #1 WV9751 2) 3) Elevation: 878.27 Gas\_X / 4) Well type: (a) 0il\_/ or (b) If Gas: Production\_\_/ Underground\_Storage\_\_ -ShallowX / Deep / 5) Proposed Target Formation(s): Shale Sand 44) Proposed Total Depth: 5579 feet 6.) Environmental Liet Liks 7) 8) Approximate salt water depths: 9.) Approximate coal seam depths: 10) Does land contain coal seams tributary to active mine? Yes\_\_\_\_/ No X / proposed Well Work: Perforate and Fracture Shale Sand Squeeze 52 fue Shale. 12) CASING AND TUBING PROGRAM TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT Left in Fill-up Weight For Size Grade drilling well (cu. ft.) 13 3/8 266 Conductor Cem to Serface 8 5/8 1822 1822 Cem to Surface Fresh Water Coal 5 1/2 5473 5473 Intermediate 23/86622 6622 Production Tubing Liners PACKERS : Kind Sizes\_ Depths set Far Divison of Oil and Gas Use Only

Well Work Penmit

(Type)

Page 1 of Form WW2-A	RECEIVED WY Division of WY Division Protection	<ol> <li>Date: October 29, 1992</li> <li>Operator's well number</li> </ol>
(10-91)	momental Protection	L. Pugh #1 WV9751
	MM 0 6 85	I. Pugh #1 WV9751  3) API Well No: 47 - 39 - 2199 - 7
	Wins	State - County - Permit
	Permittins Oil Strame O	F WEST VIRGINIA
DIVISIO	ON OF ENVIRONMENTAL	PROTECTION, OFFICE OF OIL AND GAS
	•	
	NOTICE AND APPLICAT	TION FOR A WELL WORK PERMIT
4) Surface Ov	wner(s) to be served	, , , , , , , , , , , , , , , , , , , ,
	Joseph H. Hodges, Bisho	l: 5) (a) Coal Operator:  Name
Address	1300 Byron St P. O. Box	230 Address
•	Wheeling WV. 26003	
(b) Name		(b) Coal Owner(s) with Declaration
Address		Name No Coal
(c) Name		Address
Address		Name
6) Inspector		
Address		(c) Coal Lessee with Declaration
		3.3.3
Telephone	(304)-	Address
	TO THE PERSON(S) NAM	MED ABOVE TAKE NOTICE THAT:
X Included i Section 8(d) of I certify I have served of accompanying do Perso X Certi Publi	s the information rethe Code of West V that as required uncopies of this notice cuments pages 1 thread Service (Affidation (Notice of Procession)	ed postal receipt attached) ublication attached)
I certify familiar with t attachments, an responsible for is true, accura	d conditions of any under penalty of law he information submode that based on my cobtaining the inforte, and complete.  that there are signally cluding the possibility.	apter 22B and 38 CSR 11-18, and I agree permit issued under this application.  W that I have personally examined and am itted on this application form and all inquiry of those individuals immediately rmation, I believe that the information difficant penalties for submitting false lity of fine and imprisonment.  Stor Wiking Energy Inc.
	Address	Designated Agent P. O. Box 13366
	a a talk talk day talk talk talk talk	Sissonville, WV. 25360
Carlaman 12 - 2	Telephone	<u> </u>
subscribed and	sworn before me this	day of November, 1997
		Mark 1. Win Notary Public
My commission ex	kpires	Motary Public

OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA MARK T. WINE

## 2751

# STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION Viking Energy, Inc. (7)

L) Well Or	100 F 20 1 1 1 1 7 7 7		rgy, inc.			
2) Operato	or's Well N	umber: L.	Pugh #1 W	V9751		vation: 878.27
4) Well t	ype: (a) C	)i1_/	or Gas		Issued 10/2 Expers 10/2	29 19 G -a 198
			Deep	/ Undergr	ound Storage Shallow	
; }} Propos	ed Tarqet I	ormation(	s): Upper	441 Shale & Ber	:ea	- Ar
) Propos	ed Total De	epth:	4855'	_ feet		Environments V
		•		hs:		Cr Mail Right
8) Approx	imate salt	water dep	oths:		Office	Parning 1996
9) Approx	imate coal	seam dept	hs:			0)1,00
11) Propos Sand,	ed Well Wo set tempor	rk: Perforary plugs	cate and F at shale a	<i>438</i> ر racture Upp	ve mine? Yes 2000 yer Shale Sandand do squeez	fo ラグログ d and Berea
Thom	marks			FOOTAGE IN	JTERVALS	CEMENT
TYPE	H050		Weight	For	Left in	Fill-up (cu. ft.)
	13 3/8	Grade		266	266 252	Cem To Serfac
Conductor Fresh Wate:	8 5/8			1822	1822 2009	Cem To Serfac
Coal						1 2 2 2 2
Intermedia	te 5 1/2	Touche.	•	5473	5473 Hez	40 Jourge
Production	2 2 /0	100		6622	6622 4050	
Tubing						
Liners				a. H. 10-31-	76	
PACKERS :	Kind					
	Sizes Depths set					
V/4		For Divis	on of Oil	and Gas Use	only 1. F	
\  Fee(s	s) paid:	Well	Work Permi	t   _   Rec	1 aft i follow	
Plat	WW-9	II ww	-2B 1	Bond CA	(Type)	Agent

Page Form	1 of WW2-A
(6/94	•
File	Сору

REO	
Environment	EIVED ision of all Protection
OCT 2.7	A Protection
23	1996

Date:
 opera

Date: October 14, 1996 Operator's well number

L. Pugh #1 WV9751
API Well No: 47 -

47 - 039 State County

-2199 **-F** Permit

Permission of Environmental Protection Office of Oil and Gas

3)

	NOTICE AND APPLICATION F	OR A WELL WORK PERMIT
4)	Surface Owner(s) to be served: (a) Name <u>Joseph H. Hodges, Bishop</u> Address <u>1300 Byron St. P. O. Box</u>	5) (a) Coal Operator: Name N/A Address
	230 Wheeling, WV 26003	
	(b) Name Address	(b) Coal Owner(s) with Declaration Name NA
		Address
	(c) Name	
	Address	Name
		Address
6)	Inspector Carlos Hivley Address 223 Pinch Ridge Rd. Elkview, WV 25071	(c) Coal Lessee with Declaration Name Address
	Telephone (304) - 965-6069	
	TO THE PERSON(S) NAMED AT	BOVE TAKE NOTICE THAT:
$\frac{X}{8(d)}$ I have	of the Code of West Virginia (see I certify that as required under ( ve served copies of this notice ar	red by Chapter 22, Article 6, Section page 2) Chapter 22 of the <u>West Virginia Code</u> and application, a location plat, and on the above named parties, by: attached) estal receipt attached)
fami attac respo	ne terms and conditions of any perm I certify under penalty of law the liar with the information submitted the subments, and that based on my inquiposible for obtaining the information, accurate, and complete.  I am aware that there are significantion, including the possibility	Viking Engray, Inc.
	Its:	Designated Agent
	Address	P. O. Box 13366
		Sissonville, WV 25360
<b></b> .	Telephone	304-984-3389
Subs	cribed and sworn before me this 14	day of October , 1996
My	OFFICIAL NOTARY	PUBLIC MOLATY PUBLIC
My C	ommission expires  MARK T  48 Cadarcest Drive  B My Commission Expire	WINE Rider, WV 25271