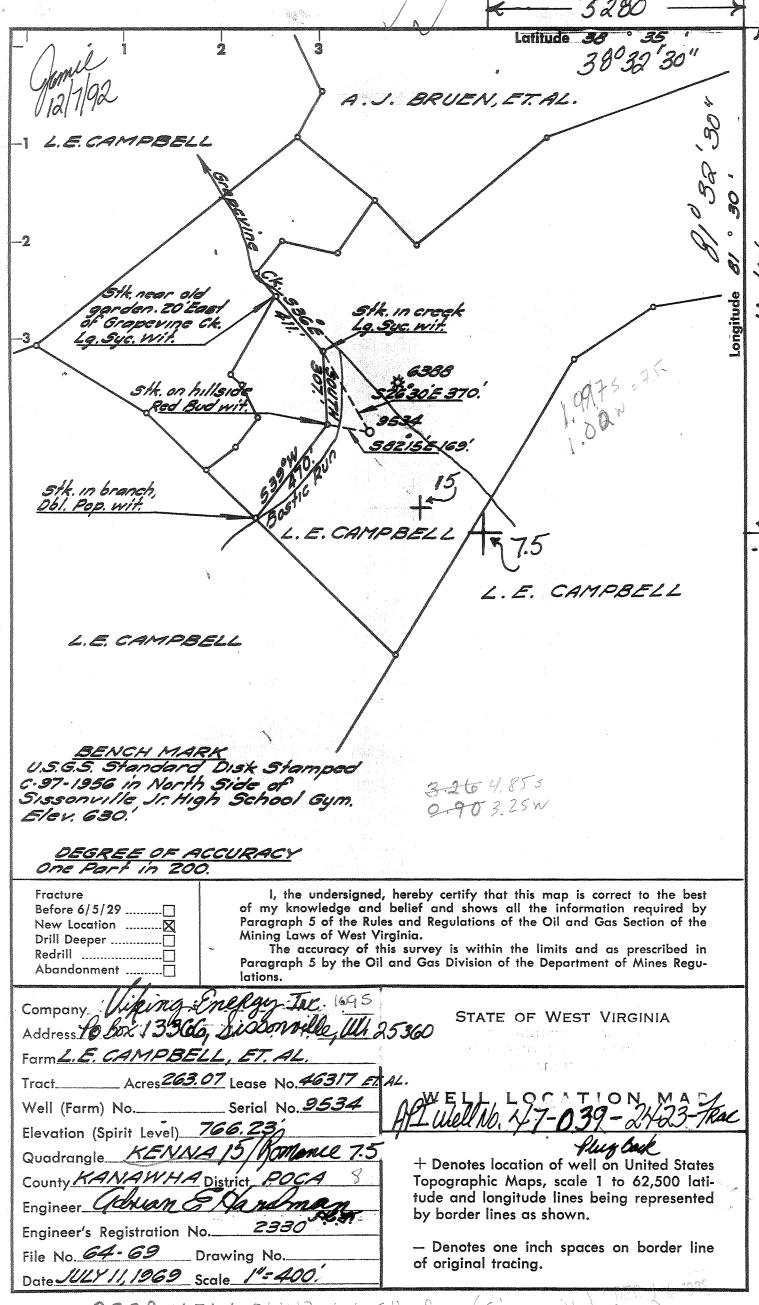
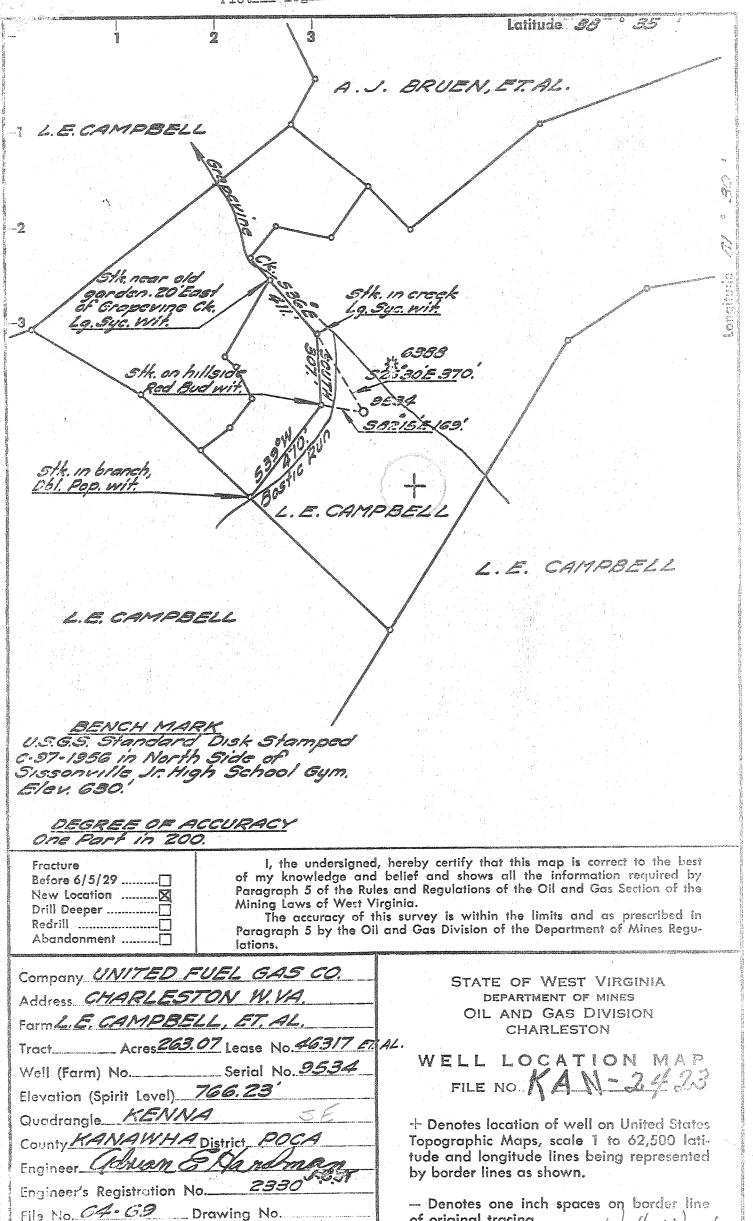


DEEP WELL



DEEP WELL OWNO 6.6 Elle-Poce (Sissorville) (192)



of original tracing,

Date JULY 11, 1969 Scale 1"-400.

Fork

AUG 20 1969



STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

Spudder Cable Tools

(3/4/3/01/7)

1969

Dept. of Mines

Carro

Storage

LI FOLL

Kenna

Quadrangle Sissonville

38°45'

9-52

WELL RECORD

Permit No. KAN-2423	M. Al. Spinner Spinning property. 19 of themsel.		populación paracocopologico accocopando de estado estado estado en estado e en consensione en consensione en c	Oll or G	as Well Car
Company United Fuel Gas Company Address Charleston, West Virginia	(Casing and Tubing	Used in Drilling	Left in Well	PACEEES
Farm L. E. Campbell ET AL Acres		Size	-		
Location (waters) Bostic Branch of Grapeying	3 Creek 16				Kind of Packer
Location (waters) Bostic Branch of Grapevins RB-776.2 Well No. 9534 Elev.	766.23. 13.				ය. අතර අංග කරන අතර සිට
District Poca County Kanawha	XX	. 9 		57081	Size ot
The surface of tract is owned in fee by		4 1	8		
Address	***************************************	1	3	. ,	Depth set
Mineral rights are owned by	*******		3	å.	
Address		i	and the same of th	å	Perf. top
Drilling commenced August 18, 1969					Perf. bottom
Drilling completed August 29, 1969		1	ž.		Perf. top.
Date Shot From To		1		i i	
With	of language	ACCOUNT OF THE PARTY OF THE PAR	Reference and additional and a second	PROPERTY OF STREET OF STREET,	FEII. OUTCOM
Open Flow /10ths Water in			ementing record		**
10ths Merc. in		ASING CEME	NTED	3128.2199. 150	No. Ft
Volume 12 MMCF					· · · · · · · · · · · · · · · · · · ·
Rock Pressure lbs.					When you was not to be a second and animal to be a second and animal to be a second and animal to be a second
Oilbbls		DAL WAS EN	NCOUNTERED	AT	FEET INCH!
WELL ACIDIZED (DETAILS).					FEET INCH
2.26.3	2 2 2 02 07 07		r	HES	FEET INCH
WELL FRACTURED (DETAILS) 1000-gals Mud Additives WAC-10 800# •WG-6 400# WA	C-8 400# St	ids 20-08]	s. Mortio	20 gals.	CW-1 300% Dang
RESULT AFTER TREATMENT (Initial open Flow or bbl ROCK PRESSURE AFTER TREATMENT 1980	s.)IQ	ATTRE	aj aledelendelende	and have been been a bounded and the second	L. 6-6-6-6-0
ROCK PRESSURE AFTER TREATMENT 1900 Fresh Water 10 Feet	PI	uursll	L70	and a second	MINE AND THE CONTROL OF THE AND
Fresh Water Producing Sand Newburg		If AA # fcl	Danch 570	2 '	最近 · · · · · · · · · · · · · · · · · · ·
Producing Sand (NEWOULE)	endades en en en de de de de las en les en compressants en per en, en un el en circulato per form en en en-	niumaturir materiala erre erre un haben de matjergrafit a 1900 filosofi			

OU, Gas or Water Hard or Soft Romarks Depth Bottom Color Top Formation Water @ 10 130 0 Gravel 800 130 Sand-Shale 1170 Salt Water 800 Sand Sand 1500 1170 Sand 1500 1655 Big Lime 1655 1685 Injun 4770 1685 Shale 4770 4860 Cornif. Lime Show of gas 4860 4935 Oriskany 5668 4935 Dolmite 5676 5668 Newburg 5676 5702 McKenzie Dolmite Test before fracturing 12 Final Open Flow: 76 MMCF (Four point potential test) Shut in 7" casing 8-29-69 12 MMCF Casing Points: 13-3/8" 121' 100 Bags Cement 1768' 9-5/8" 600 Bags Cement 150 Bags Cement 57081 Gamma Ray-Density-Caliper Logs Run: Permit No. KAN-2423 Shut In 7" Casing 8-29-69



JUL 1 4 1997

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

Permitting
OHICA Of OII & Gas Well Operator's Report of Well Work

A11100 a.		
Farm name:	CAMPBELL, LEWIS E.	Operator Well No.: L. CAMPBELL #1
LOCATION:	Elevation: 766.23	Quadrangle: KENNA
	Latitude: 10400 Fee	County: KANAWHA t South of 38 Deg. 32Min. 30 Sec. t West of 81 Deg. 32 Min. 30 Sec.

Company: VIKING ENERGY CORPORATION Used in Left P. O. BOX 13366 Casing Fill Up SISSONVILLE, WV 25360-0000 Drilling in Well Cu. Ft. Tubing Agent: MICHAEL PINKERTON Size Inspector: CARLOS HIVELY Permit Issued: 5708 5708 150BAGS Well work Commenced: Well work Completed: 9 5/8 1768 1768 600 BAGS Verbal Plugging Permission granted on: Rotary____ Cable Total Depth (feet) 3919 Fresh water depths (ft) Salt water depths (ft) Is coal being mined in area (Y/N)? Coal Depths (ft):

OPEN FLOW DATA

Producing formation SHALE	Pay zone depth (ft) 1050-2150 1: Initial open flow N/A BbI/d
Gas: Initial open flow 75 MCF/d Oi	l: Initial open flow N/A BbI/d
Final open flow 75 MCF/d	Final open flow W/A Bbl/d
Time of open flow between initia	Pay zone depth (ft) 1050-2150 1: Initial open flow N/A Bbl/d Final open flow N/A Bbl/d al and final tests 24 Hours
Static rock Pressure 100 psig (su	rface pressure) after 24 Hours
Second producing formation SHALE	Pay zone depth (ft) 2550-3100
Gas: Initial open flow 75 MCF/d Oi	ll: Initial open flow N/A Bbl/d
Final open flow 75 MCF/d	Final open flow N/A Bbl/d
Time of open flow between initia	al and final tests 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.

	Viking (nergy OC)
For:	VIKING ENERGY CORPORATION
	M M L
	By: Appl tuperlow
	Date: 17-11-97

1ST STAGE SHALE 1950-2300 NTTROGEN FRAC 500 GAL. 15%HCL, 750,000 SCF N2, BKDN 2000PSI ATP 2000PSI, ATR 50,000 SCF/MIN ISIP1955 PSI 5MIN. SI1507 PSI

2ND STAGE 14 HOLES 2550-3100 NITROGEN FRAC 375 GAL 15%HCL , SCF N2 (BKDN 2799 PSI ATP 2700 PSI), PUMP 375 GAL 15% HCL (W/8PERF BALLS AND 300000 SCF N2 BKDN 3250 PSI ATP 3100 PSI, AIR 50000 SCF/MIN., ISIP 2965 PSI 5MIN. SI2052PSI

State of West Virginia Division of Oil and Gas

Well Operator's Report of Well Work

-	political and meth obergeon a webe	20 02 1102.			
:	polytion well operator s Repo	Operator V	Well No.	Campbell	#1-9534
•	LOCATION: Elevation: 766.23 District: Poca Latitude: 10400 Feet So	Quadrang Count outh of 38	le: Romand ty: Kanawl Deg. 32	ce na Min. 30	Sec.
	Longitude: 5280 Feet We	est of 81	Deg. 32	Min. 30	Sec.
	Company: Viking Energy Corporation P.O. Box 13366 Sissonville, WV 25360 Agent: Michael Pinkerton	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill up Cu.Ft.
	Inspector: <u>Carlos W. Hively</u>	Size			
	Permit Issued: 12-08-92			**************************************	Contribution
	Well work Commenced: 12-09-92	_\ <u>7"</u>		*4000°	*131 cf
	Well work Completed: 12-18-92 Verbal Plugging	2 3/8"		3800 1	
	Permission granted on:	-			
	RotaryCableRig				
	Total Depth (feet)	-			
	riesh water depths (it) h/a	-			
	Salt water depths (ft) n/a				
	Is coal being mined in area (Y/N)? Coal Depths (ft): OPEN FLOW DATA	N	* See B	ack	
	Producing formation <u>Devonian Shale</u> Gas: Initial open flow <u>177</u> MCI Final open flow <u>159</u> MCI Time of open flow between init Static rock Pressure 780 psig (s	F/D Oil:IF/D Final tial and f	nitial op open flo inal test	en flow_ w0 s24	0Bbl/d _Bbl/d Hours
	Second producing formation Gas: Initial open flowMCF/D orMCF/D Final open flow between initiation to the product of the product	Final o tial and f	pen flow_ inal test	B s	bl/d Hours
	NOTE: ON BACK OF THIS FORM PUT THE PERFORATED INTERVALS, FRACTURING OF ETC. 2). THE WELL LOG WHICH IS A STRECORD OF ALL FORMATIONS, INCLUDING	R STIMULAT YSTEMATIC	ING, PHYS DETAILED	ICAL CHA GEOLOGIC	NGE, AL
	FOR: Viking BY: DATE: 12-29	Thomas	orporatio	_	ultant_

STIMULATION SUMMARY

Partial Plugging Data:

Set 5.61 Bridge plug @ 4500'

Squeeze Cement Data:

7" Casing perforated and squeeze cemented attaining 131 cf fill-up to 3250'. Total Depth inside 7" at 4000'.

Recompletion Data:

(8/2×

Devonian "Brown" Shale 3680-3913' 20 holes 75 quality foam frac, 45,000 lbs 20/40 sand

See original record for additional formation information and flow data.

70 5702 OF - 545 OF - 535 FORM WW-2B

STATE OF WEST VIRGINIA

Expuse 12/08/94

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

1)	Well Ope	rator:		095 rgy Inc.		51440	(4) 583
2)	Operator	's Well	Number: $\underline{\mathbb{L}}$. Campbell	#1 WV9534		evation: 766.23
4)	Well typ	e: (a)	0il_/	or Gås	<u>X</u> /		
				Deep		round Storag	
5)	Proposed	Target	Formation	(s):S	nale Sand		<u>\$</u> 4
6)				4770			an de de de la la
7)	Approxim	ate fres	h water s	trata dept	hs: <u>NA</u>		NOV 0 6 32
8)	Approxim	ate salt	water de	pths:	NA	•	Permitting
9)	Approxim	ate coal	seam dep	ths:	NA		
10)	Does lan	d contai	n coal se	ams tribut	ary to act	ive mine? Y	es/ No_X_/
11)	Proposed	Well Wo	jk: gerf	orate and Fr	acture Shale	Sand Come	
12) Tull o	ermans. 1 berforute 7	300 19 to	CASIN	G AND TUBI	NG PROGRAM Of to the FOOTAGE I	297 she 1	PACE Street CEMENT
LAU	WHB	The second secon		Weight	For	Left in	Fill-up
Cand		13	Grade /	per rc.	drilling	well 121	(cu. ft.)
	uctor	9 5/8	Califo	My (1768	1768	600 bags
	h Water))/ 0	9/1		1700	4,00	000 tags
Coal Inte	rmediate	7 4	word will for	ind	5708	5708	150 bags
Prod	uction	2	/ / / /		57 .5		
Tubi	ng						
Line	T.S.		and the state of t				
PACK		es					
15to	Ree(s) p	E	\mathcal{A}		and Gas Use	Only lamation Fund	d A WPCP

(Type)

Page	1 of 1 of 1)	Doto - Ostalism No. 4000
	- THE TOTAL PARTY OF THE PARTY	Date: October 29, 1992
		Operator's well number
1.20		L. Campbell #1 WV9534 API Well No: 47 - 39 - 2423-F
	W 0 6 32 3)	API Well No: 47 - 39 - 2423-F
		State - County - Permit
	COLD 62	<u> </u>
	Owce o STAIR OF MI	EST VIRGINIA
	DIVISION OF ENVIRONMENTAL PRO	TECTION, OFFICE OF OIL AND GAS
	NOTICE AND APPLICATION	FOR A WELL WORK PERMIT
<i>a</i> 3		
4)	Surface Owner(s) to be served:	°5) (a) Coal Operator:
	(a) Name Lewis E. Campbell	Name
	Address P. O. Box 10171 Sta C	Address
	Charleston, WV. 25312	
	(b) Name John 2. Campbell	(b) Coal Owner(s)-with Declaration
	Address Same	Name No Coal
		Address
	(c) Name	
	Address	Name
	. 1	Address
		made Coo
6)	Inspector	(c) Coal Lessee with Declaration
	ACCTACC	\$ 7 m m m
	ndaress	Address
	Telephone (304)	Address
	2020210110 (304)	
	TO THE DEDCOM C \ MAKEN	ABOVE TAKE NOTICE THAT:
Sect I ha	we served copies of this notice and mpanying documents pages 1 through Personal Service (Affidavit Certified Mail (Postmarked page) Publication (Notice of Publication)	o extract oil and gas <u>OR</u> ired by Chapter 22B, Article 1, inia (see page 2) Chapter 22B of the <u>West Virginia Code</u> nd application, a location plat, and h on the above named parties, by: attached) postal receipt attached)
fami: attac responsis to	The terms and conditions of any permits and conditions of any permits and the information submitted that the chments, and that based on my inquestible for obtaining the information, accurate, and complete. I am aware that there are significant on, including the possibility	rmit issued under this application. nat I have personally examined and am ed on this application form and all liry of those individuals immediately tion, I believe that the information icant penalties for submitting false
	Malana	304-372-9374
Subsc	Telephone cribed and sworn before me this	
massed bad b	gree photii perote life clits	5 day of <u>November</u> , 19 <u>97</u>
		Mulililline Notary Public

My commission expires

Liners PACKERS : Kind Depths set For Office of Oil and Gas Use Only

L Fee(s) paid: '

Plat (WW-9

Well Work Permit Reglamation Fund

Bond

	1 of WW2-A	•		Date: June Operator's W L. Campbell	ell numb		
File		-	3)		47	39 County	2423 = F Permit
		DIVISIO	N OF ENVIRON OFFICE OF O		rion		
		NOTICE AND A	APPLICATION	FOR A WELL WOR	K PERMIT		
4)	(a) Name Address	wner(s) to be Lewis E. Camp P.O. Box 1017 Charleston, V	bbell 71 Sta C	5) (a) Coal Name Address			
	(b) Name	John E. Campb Same	<u>e11</u>	(b) Coal Owr Name <u>No Co</u> Address			iration
	(c) Name			Name			
	Address _			Address			
6)	Address _	Carlos Hivel 223 Pinch Ri Elk View, WV (304) -965-60	idge Road 7 25071	(c) Coal Les Name Address			
	20202000					_	
		TO THE PERSO	N(S) NAMED	ABOVE TAKE NOT	ICE THAT	<u>.</u>	
$\frac{X}{8(d)}$ I ha	racts by ward included of the Control of the Contro	which I hold is the information of West V that as requestion to the copies of the comments pages on al Service tified Mail (the right to mation required under his notice a es 1 through (Affidavit Postmarked p	Chapter 22 of and application on the al	the Wes n, a loc oove name	Eicle 6, t Virgination pied partic	Section nia Code lat, and
fami atta	he terms a I certify liar with chments, a	and condition y under penal the informa and that base	s of any per ty of law t tion submit ed on my inq	er 22-6 and 38 mit issued und hat I have per ted on this a uiry of those ation, I belie	der this sonally pplication individu	applica examine on form als imm	tion. d and am and all ediately
	rue, accui	cate, and com	plete.				
info	I am awa	re that ther	e are signi:	ficant penalti y of fine and	es for s. imprison	submitti ment.	ng raise
Z11Z O	indcion, .	W	ell Operator	Viking Ener	gy Inc.		
			y: Muchae				
			ts: ddress	Designated P.O. Box 13			
		=		Sissonville	. WV 25	360	
Subs	cribed an	T d sworn befor	elephone	304-984-338 7 day of 5			, 19 <i>96</i>
		62. When		OFFICIAL SECTION		Notar	y Public
My c	1.1		8 & V	NOTARY PURILY			