

← 3170' →

Latitude 38° 30' 7.5"

81° 37' 30" 35"

Longitude 11,500'

Jamie
9/9/92

SLATER HEIRS

walnut
S74°30'E
550.00

3 Beeches

S11°30'E
1000.00

TOPO LOC.

J.C. STONESTREET

LOC. O 309.50
N88°10'W

Beech & W.O.

FREDA UNRUE

H.O. EDENS
26 ACS.

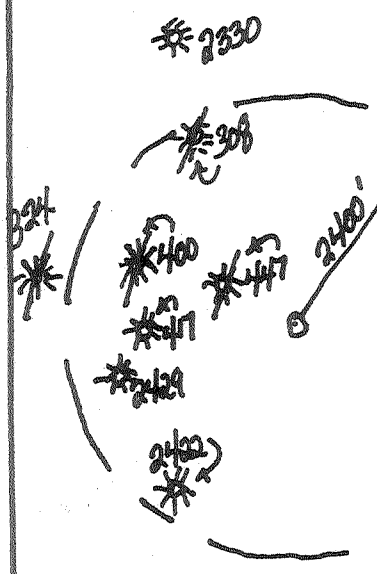
stake 7.5

C.E. STONESTREET

SLATER HEIRS

BRANCH ROAD

ROCK BRANCH
GRAVEL ROAD
O.A. EDENS
227
280



Minimum Error of Closure 1 IN 1000'
Source of Elevation ROAD INTERSECTION ELEV. 744 ROCK BRANCH

New Location
Drill Deeper
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 Inc. 1095
Address PO Box 13366, Sissonville, WV.
Farm H.O. EDENS / Jeffrey D. Edens 25360
(pt. of 274 Unit)
Tract _____ Acres 26 Lease No. _____
Well (Farm) No. 1 Serial No. _____
Elevation (Spirit Level) 793.5
Quadrangle CHARLESTON 15 / Potatoes 7.5
County KANAWHA District POCA 4
Engineer N.L. Sefton
Engineer's Registration No. 1832
File No. _____ Drawing No. _____
Date 3-18-69 Scale 1" = 300'

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

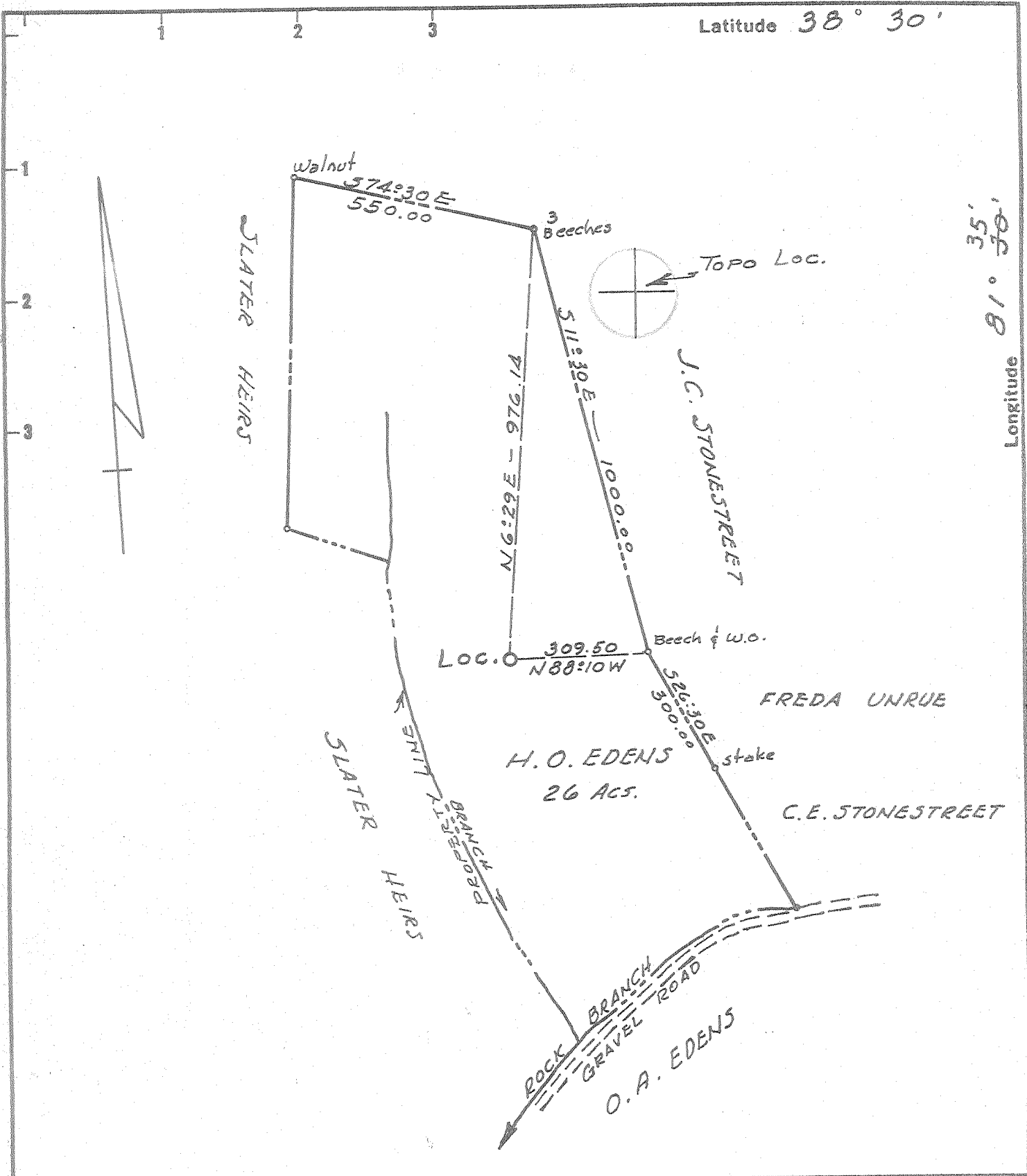
WELL LOCATION MAP
APP. Well No. 47-039-2377-TRAC

+ 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.

SEP 11 1992

DEEP WELL DWVO 6-6 Elk-Poca (Sissonville) (192)



New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure 1 IN 1000'
 Source of Elevation ROAD INTERSECTION Elev. 744 ROCK BRANCH
 "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 HARRY HOLTOM
 Address 808 HIGH ST., WORTHINGTON, OHIO
 Farm H.O. EDENS
 Tract (Pt. of 274 Unit) Acres 26 1/2 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 793.5
 Quadrangle CHARLESTON NC
 County KANAWHA District POCA
 Engineer N.L. Sefton
 Engineer's Registration No. 1832
 File No. _____ Drawing No. _____
 Date 3-18-69 Scale 1" = 300'

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

WELL LOCATION MAP
 FILE NO. KAN-2377

+ 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
Oil or Gas Well **Gas**

Quadrangle Pocatalico
Permit No. 2377

WELL RECORD

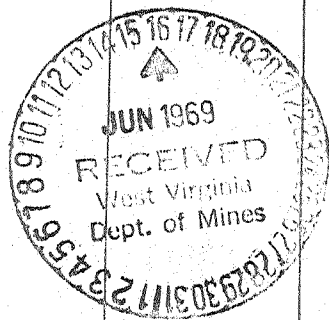
Company Harry A. Holtom
Address 808 High St. Worthington, Ohio
Farm H.O. Edens Acres 272.47 Unit Size
Location (waters) Rock Br. of Tupper, s Crk.
Well No. #1 Elev. 794 G.L.
District Poca County Kanawha 808 K.B.
The surface of tract is owned in fee by H.O. Edens
Address Pocatalico, W.Va.
Mineral rights are owned by Cites Service & H. Holtom
Address as above
Drilling commenced 4/2/69
Drilling completed 4/10/69
Date ~~800~~ Fracked From 5657 To 5717
With 500MA 1000BW 30,000# 20/40 Sd.

Casing and Tubing	Used in Drilling	Left in Well	Packers
16			Kind of Packer
13 5/8"	90'	90'	
10			Size of
8 5/8"	1885'	1885'	
6 5/8"			Depth set
5 1/2"	5657'	5657'	
4 1/2"			
3			Perf. top
2 Tub.	5693	5693	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume Four Point AOF 28 Million Cu. Ft.
Rock Pressure 1722 lbs. hrs.
Oil bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS)
WELL FRACTURED (DETAILS) Frac. w/500 galls MCA, 1000 BW and 30,000 # 20/40 mesh Sd.
Avg. Injection rate 22.4 BPM @ 4863 #.
RESULT AFTER TREATMENT (Initial open Flow or bbls.) 28 MCF/CPD 28,000 M.C.F 78,000,000
ROCK PRESSURE AFTER TREATMENT 1722 HOURS
Fresh Water Feet
Salt Water Feet
Producing Sand Depth

Attach copy of cementing record.
CASING CEMENTED 5 1/2" SIZE 5657 No. Ft. 4/8/69 Date
Amount of cement used (bags) 175 cubic feet
Name of Service Co. Dowell
COAL WAS ENCOUNTERED AT FEET INCHES
 FEET INCHES FEET INCHES
 FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Injun Sd	gray	soft	1752	1784	sho of gas	at top	
Berea	brown	hard	2402 ^Q	2417			
Devonian Sh.	gray	soft	2417	4812			
Onondaga	cream	hard	4812	4904			
Oriskany	white	hard	4904 ⁴⁹⁰⁴	4938			
Helderberg	white	hard	4938	5692			
Newburg	cream	hard	5692	5717	gas	5692	10 MM natural
				5692 4904 788	5692 808 4884		



Date 6/9/69
Approved by Henry G. Walker
Owner

AUG 27

039-2377-Frac
Issued 9/10/92

Expires Page 1 of 1
9/10/94

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

51440 (8) 289

- 1) Well Operator: Viking Energy Inc.
- 2) Operator's Well Number: H. O. Edens #1 20188 3) Elevation: 794
- 4) Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production ___ / Underground Storage ___ /
 Deep ___ / Shallow X /
- 5) Proposed Target Formation(s): Shale Sand
- 6) Proposed Total Depth: 4812 feet
- 7) Approximate fresh water strata depths: _____
- 8) Approximate salt water depths: _____
- 9) Approximate coal seam depths: None
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /

11) Proposed Well Work: Perforate and Fracture Shale Sand

12) Set Temporary possibly Permanent Bridge Plug. frac existing well
up hole if permanent
Partial Plug fillout Plugging Permit

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 5/8			90'	90'	?
Fresh Water	8 5/8			1885'	1885'	?
Coal						
Intermediate	5 1/2			5657'	5657'	175 cubic feet
Production						
Tubing	2			5693'	5693'	
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

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

3353

(Type)

27

- 1) Date: August 19, 1992
- 2) Operator's well number
H. O. Edens #1 20188
- 3) API Well No: 47 - 039 - 2377 - 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 Jeffrey D. Edens
Address Rt 5 Box 395 J
Charleston, WV. 25312
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name _____
Address _____
 - (b) Coal Owner(s) with Declaration
Name Jeffrey D. Edens
Address Rt 5 Box 395 J
Charleston WV. 25312
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name _____
Address _____
- 6) Inspector Carlos Hively
Address 223 Pinch Ridge Road
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

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:

- X 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.

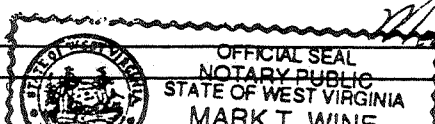
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

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

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

Subscribed and sworn before me this 26 day of August, 1992

My commission expires _____



Mark T. Wine Notary Public

State of West Virginia
Division of Oil and Gas

Well Operator's Report of Well Work

Name: Edens, Jeffrey D.

Operator Well No. Edens #1 20188

LOCATION: Elevation: 793.50 Quadrangle: Pocatalico
District: Poca County: Kanawha
Latitude: 11500 Feet South of 38 Deg. 30 Min. 0 Sec.
Longitude: 3170 Feet West of 81 Deg. 37 Min. 30 Sec.

Company:

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

Agent: Michael Pinkerton

Inspector: Carlos W. Hively

Permit Issued: 09-10-92

Well work Commenced: 10-09-92

Well work Completed: 10-19-92

Verbal Plugging _____

Permission granted on: _____

Rotary _____ Cable _____ Rig _____

Total Depth (feet) 4060'

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"		*4060'	* 75 cf
2 3/8"		3915'	

Is coal being mined in area (Y/N)? N

Coal Depths (ft): _____

OPEN FLOW DATA

*See back of record

Producing formation Brown Shale Pay zone depth (ft) *

Gas: Initial open flow 149 MCF/D Oil: Initial open flow 0 Bbl/d

Final open flow 119 MCF/D Final open flow 0 Bbl/d

Time of open flow between initial and final tests 24 Hours

Static rock Pressure 710 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 White Consultant

DATE: 12-31-92

Reviewed TMB

Recorded _____

JUL 30 1993

STIMULATION SUMMARY

Partial Plugging Data:

Ran 250' cement plug (150' of Class A, and 100' of Latex)
from TD (5717') to 5467'.

Squeeze Cement Data:

5 1/2" Casing perforated and squeeze cemented attaining 75 cf
fill-up to 3650'. Total Depth inside 5 1/2" at 4060'.

Recompletion Data:

Devonian "Brown" Shale ^{913 812} 3851-3947' 15 holes
75 quality foam frac, 35,000 lbs 20/40 sand

See original record for additional formation information and flow data.

TD 5717
DE }
OBT } 535

1407