



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle.....

WELL RECORD

Permit No. **PUT-731**

Oil or Gas Well. **Gas**
(KIND)

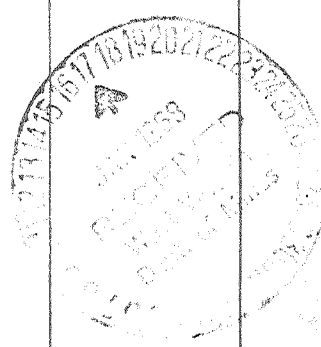
Company I. V. Cunningham, P. O. Box 9337	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address Spring Hill Sta., So. Chas., W. Va.	Size			
Farm Lum Kinder Acres 48	16			Kind of Packer.....
Location (waters).....	13 3/8	93'	93'	Size of.....
Well No. 3 Elev. 604.94'	10			Depth set.....
District Pocatalico County Putnam	9 5/8	1728'	1728'	Perf. top.....
The surface of tract is owned in fee by.....	7	5270'	5270'	Perf. bottom.....
Address.....	5 3/16			Perf. top.....
Mineral rights are owned by.....	4 1/2			Perf. bottom.....
Address.....	3			
Drilling commenced Sept. 20, 1967	2 3/8	5322'	5322'	
Drilling completed Sept. 27, 1967	Liners Used.....			
Date Shot..... From..... To.....				
With.....				

Open Flow /10ths Water in..... Inch
 /10ths Merc. in..... Inch
 Volume **2,500,000** *nat.* Cu. Ft.
 Rock Pressure..... lbs. hrs.
 Oil..... bbls., 1st 24 hrs.
 Attach copy of cementing record.
 CASING CEMENTED..... SIZE..... No. Ft..... Date
 Amount of cement used (bags).....
 Name of Service Co.....
 COAL WAS ENCOUNTERED AT..... FEET..... INCHES
 FEET..... INCHES..... FEET..... INCHES
 FEET..... INCHES..... FEET..... INCHES
 WELL ACIDIZED (DETAILS).....
 WELL FRACTURED (DETAILS) **1,000 BBs Water -30,000# Sand**

RESULT AFTER TREATMENT (Initial open Flow or bbls.) **14,500,000 MCF.**
 ROCK PRESSURE AFTER TREATMENT **2125#** HOURS
 Fresh Water..... Feet Salt Water **1150** Feet
 Producing Sand **Newburg** Depth.....

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			0	40			
Sand			40	80			
Lime			80	120			
Sand & Shale			120	200			
Sand			200	290			
Sand & Shale			290	1005			
Sand			1005	1115			
Sand & Shale			1115	1280			
Sand <i>Salt</i>			1280	1455			
Shale			1455	1460			
Lime			1460	1600			
Sandy Lime			1600	1625			
Sand <i>injury</i>			1625	1670			
Sand & Shale			1670	2060			
Sand <i>injury?</i>			2060	2074			
Shale <i>injury</i>			2074	4505			
Lime			4505	4607			
Sand <i>Oriskany</i>			4607	4639			
Lime			4639	5323			
Sand - <i>Newburg</i>			5323	5340 TD			

4607
620
3987



WR-35

RECEIVED
WV Division of
Environmental Protection

JUL 14 1997

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

06-Nov-96
API # 47- 79-00731 F

Permitting Well Operator's Report of Well Work

Office of Oil & Gas

Farm name: PINKERTON, MICHAEL

Operator Well No.: KINDER#4-WVP731

LOCATION: Elevation: 604.94 Quadrangle: POCATALICO

District: POCATALICO County: PUTNAM
Latitude: 10170 Feet South of 38 Deg. 30Min. 0 Sec.
Longitude 150 Feet West of 81 Deg. 45 Min. 0 Sec.

Company: VIKING ENERGY CORPORATION
P. O. BOX 13366
SISSONVILLE, WV 25360-0000

Agent: MICHAEL PINKERTON

Inspector: CARLOS HIVELY
Permit Issued: 11/07/96
Well work Commenced: 1-10-97
Well work Completed: 1-29-97
Verbal Plugging _____
Permission granted on: _____
Rotary Cable Rig
Total Depth (feet) SEE ATTACHMENT
Fresh water depths (ft) SEE ATTACHMENT
Salt water depths (ft) _____

Is coal being mined in area (Y/N)?
Coal Depths (ft): N

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
2 3/8	N/A	3830	
7	5270	5270	
9 5/8	1728	1728	TOSURF
13 3/8	93	93	TO SURF

OPEN FLOW DATA

Producing formation SHALE Pay zone depth (ft) 3300-38
 Gas: Initial open flow 150 MCF/d Oil: Initial open flow N/A Bbl/d
 Final open flow 150 MCF/d Final open flow N/A Bbl/d
 Time of open flow between initial and final tests 24 Hours
 Static rock Pressure 200 psig (surface pressure) after 24 Hours

Second producing formation SHALE Pay zone depth (ft) 2000
 Gas: Initial open flow 100 MCF/d Oil: Initial open flow N/A Bbl/d
 Final open flow 100 MCF/d Final open flow N/A Bbl/d
 Time of open flow between initial and final tests 24 Hours
 Static rock Pressure 200 psig (surface pressure) after 24 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATION 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 WEBLBORE.

For: Viking Energy Corp
VIKING ENERGY CORPORATION
By: Michael Pinkerton
Date: 7-11-97

JUL 18 1997

JUL 18 1997

01-17-97

1st Stage, Lower Huron (3666-3830', 18 holes)
Nitrogen frac, 500 gals. 15% HCl, 750,000 scf N₂; BKDN 2,071 psi,
ATP 2,050 psi, AIR 50,000 scf/min., ISIP 1,955 psi, 5 min. SI 1,507 psi.

2nd Stage, Middle Huron (3318-3539', 16 holes), set small mouth frac
plug at 3600'

Nitrogen frac, 375 gal. 15% HCl (w/ball), 350,000 scf N₂, (BKDN 2,799
psi, ATP 2,700 psi), pump 375 gal. 15% Hcl (w/8 perf balls) and 300,000
scf N₂, BKDN 3,250 psi, ATP 3,100 psi, AIR 50,000 scf/min., ISIP 2,965
psi, 5 min. SI 2,052 psi.

3rd Stage, Berca (2085-2092', 6 holes) and Lower Weir (2001-2042', 10
holes) set large mouth frac plug at 80'??? (plug became stuck for some
unknown reason).

1-17/19-97

Blow well back

01-24-97

3rd Stage Berca (2085-2092', 6 holes) and Lower Weir (2001-2042', 10
holes).

Nitrogen frac, 500 gals. 15% Hcl (w/ball), 350,000 scf N₂; pump 250 gals.
15% HCl (w/6 perf balls) and 150,000 scf N₂; drop 3 perf balls followed by
250,000 scf N₂. BKDN 3,210 psi, ATP 2,684 psi, AIR 23,363 scf/min.,
ISIP 2,326 psi, 5 min. SI 1,890 psi.

1-25/28-97

Flow back well and drill out frac plug.

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: ¹⁰⁹⁵ Viking Energy, Inc. ⁵¹⁴⁴⁰ (3) ⁵⁵¹
- 2) Operator's Well Number: Kinder #3 WVP731 3) Elevation: 604.94
Well type: (a) Oil___/ or GasX___/ *Issued 11/07/96*
Expires 11/07/98
(b) If Gas: Production___/ Underground Storage___/
Deep___/ ⁴⁴¹ ShallowX___/
- Proposed Target Formation(s): Upper Shale and Berea
- Proposed Total Depth: 4505 feet
- 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 X/
- 11) Proposed Well Work: Perforate and Fracture Shale Sand and Berea Sand, set temporary plugs and do squeeze jobs.
- 12)

RECEIVED
WV Division of
Environmental Protection
NOV 04 1996
Permitting
Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	
Conductor	13 3/8			93'	93' Cem to Surface
Fresh Water	9 5/8			1728'	1728' Cem to Surface
Coal					
Intermediate	7			5270'	5270'
Production	2 3/8			5322'	5322'
Tubing					
Liners					

From well records.

PACKERS : Kind 2 1/2 permanent plugs done Please follow
Sizes Wick - W. 4A.
Depths set _____

For Office of Oil and Gas Use Only

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

22875

RECEIVED
WV Division of
Environmental Protection
NOV 04 1996

- 1) Date: October 22, 1996
- 2) Operator's well number
Kinder #3 WVP731
- 3) API Well No: 47 - 79 - 0731-F
State - County - Permit

Permitting
Office of Oil & Gas
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 Michael Pinkerton
Address P. O. Box 13366
Sissonville, WV 25360
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 6) Inspector Carlos Hively
Address 223 Pinch Ridge Rd.
Elkview, WV 25071
Telephone (304)-965-6069

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

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

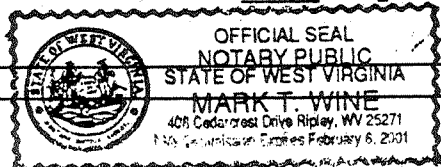
_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
 Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)
 I certify that as required under Chapter 22B of 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, Viking Energy, Inc.
 By: Michael Pinkerton
 Its: President
 Address P. O. Box 13366
Sissonville, WV, 25360
 Telephone 304-984-3389

Subscribed and sworn before me this 22 day of October, 1996

My commission expires _____



Mark T. Wine Notary Public