

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 99-06
 DRAWING NO. _____
 SCALE 1" = 600' FEET
 MINIMUM DEGREE OF ACCURACY 1:200'
 PROVEN SOURCE OF ELEVATION _____

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.
 (SIGNED) William L. Wood
 R.P.E. 1423 L.L.S. _____

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 DIVISION OF OIL AND GAS



DATE August 31, 1999
 OPERATOR'S WELL NO. #1 R.E. EAGAN, ET AL.
 API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 661.10' WATERSHED TUPPER CREEK
 DISTRICT POCA COUNTY KANAWHA
 QUADRANGLE POCATAHOCO 7.5'
 SURFACE OWNER R.E. EAGAN, ET AL. ACREAGE 177 1/4 OF 273.93 UNIT
 OIL & GAS ROYALTY OWNER R.E. EAGAN, ET AL. LEASE ACREAGE 177 1/4
 LEASE NO. _____

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 4796
 WELL OPERATOR VIKING ENERGY, INC. DESIGNATED AGENT MICHAEL PINKERTON
 ADDRESS P.O. Box 13366, Sissonville, WV 25360 ADDRESS SAME AS OPERATOR

LONGITUDE 81° 45' 00"

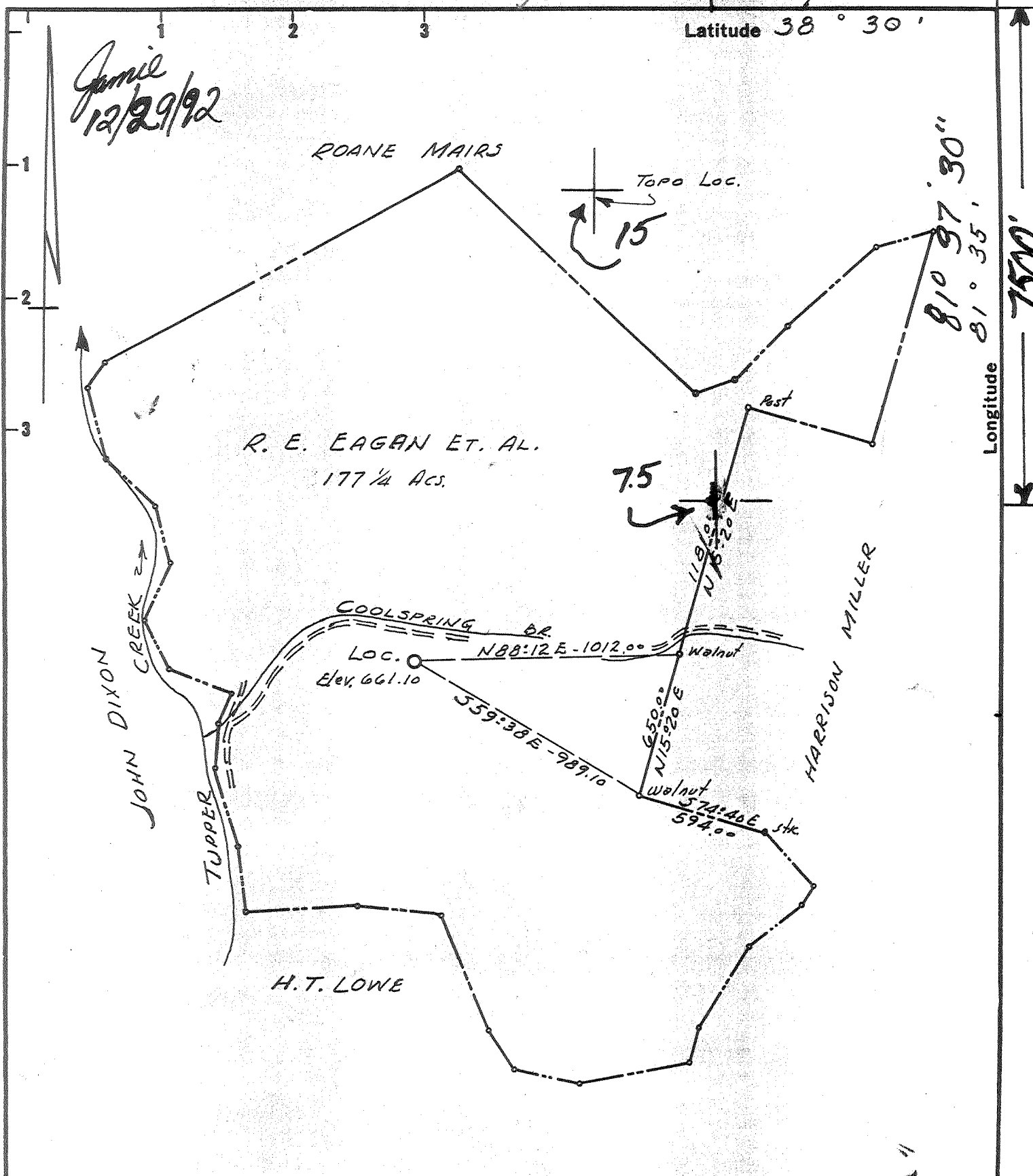
COUNTY NAME KAN

PERMIT 2342 F

DEEP WELL

OCT 28 1999

H.T. HALL 058018 FORM WW-6



Fracture	<input type="checkbox"/>
Before 6/5/27	<input type="checkbox"/>
New Location	<input checked="" type="checkbox"/>
Drill Deeper	<input type="checkbox"/>
Redrill	<input type="checkbox"/>
Abandonment	<input type="checkbox"/>

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 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.

The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

PROVEN ELEVATION USGS 241640 Road Intersect on Turners Cr.

Company Viking Energy Inc.
 Address 4000 13368 Sissonville, W.V. 25360
 Farm R. E. EAGAN ET. AL.
 Tract Acres 177 1/4 of 273.93 Unit Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 661.10
 Quadrangle CHARLESTON 15/POCATAWCO 7.5
 County KANAWHA District POCA
 Engineer N. J. Lepton
 Engineer's Registration No. 1832
 File No. _____ Drawing No. _____
 Date DEC. 2, 1968 Scale 1" = 600'

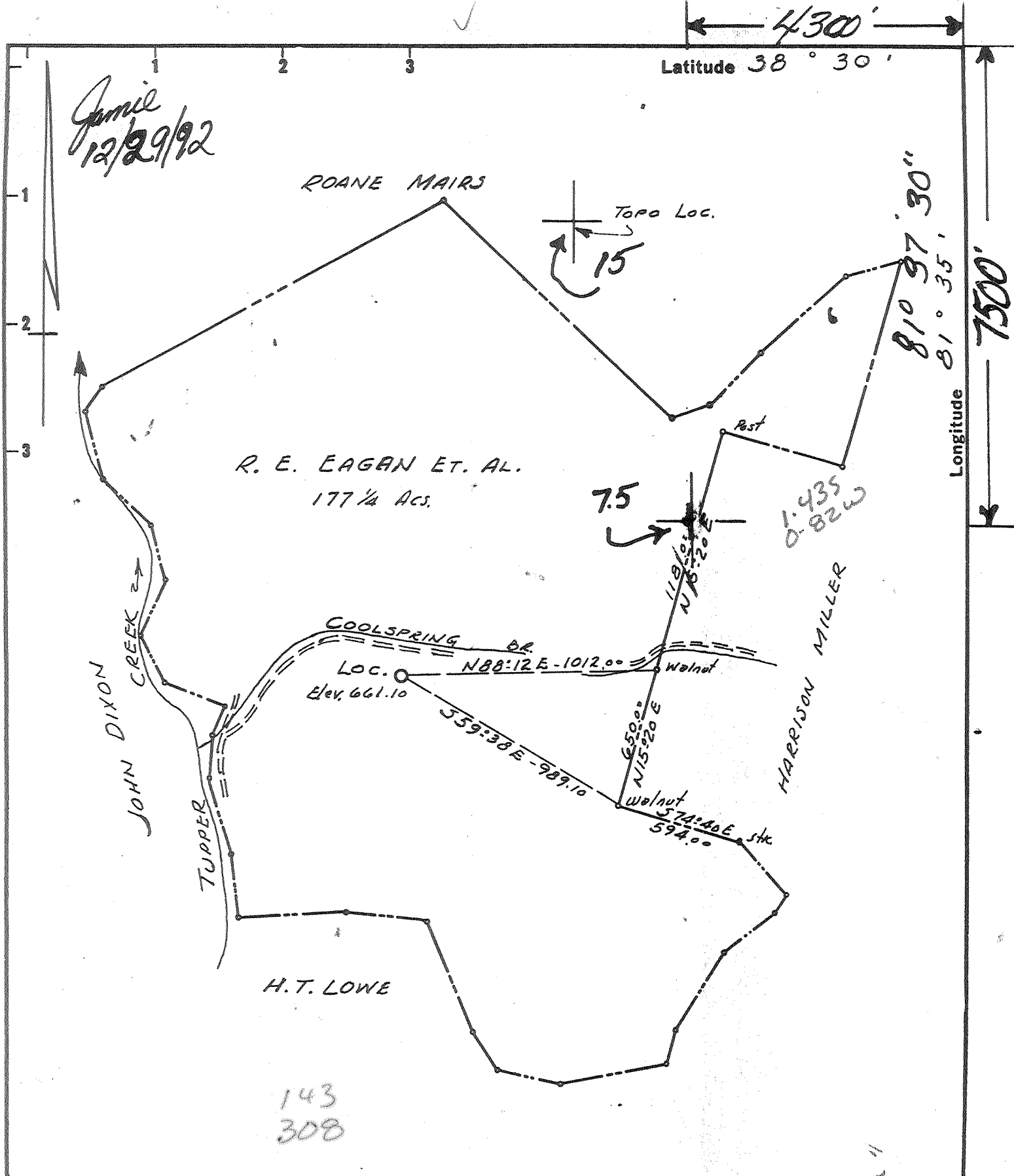
STATE OF WEST VIRGINIA
 Division of Environmental Prot.
 Office of Oil & Gas
 Nitro, W.V.

WELL LOCATION MAP
APL Well No. 47-039-2342-Frak
Plugback

+ 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.

KAN 2342-F



- Fracture Before 6/5/27
- 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 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.

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PROVEN ELEVATION *USGS Elev 640 Road Intersection Tupper Co.*

Company *Viking Energy Inc.*

Address *13306 Sissonville, W.V. 25360*

Farm *R. E. EAGAN ET. AL.*

Tract _____ Acres *177 1/4* of 273.93 Unit Lease No. _____

Well (Farm) No. *1* Serial No. _____

Elevation (Spirit Level) *661.10*

Quadrangle *CHARLESTON 15/POCATAWCO 7.5*

County *KANAWHA* District *POCA 8*

Engineer *N. L. Lefton*

Engineer's Registration No. *1832*

File No. _____ Drawing No. _____

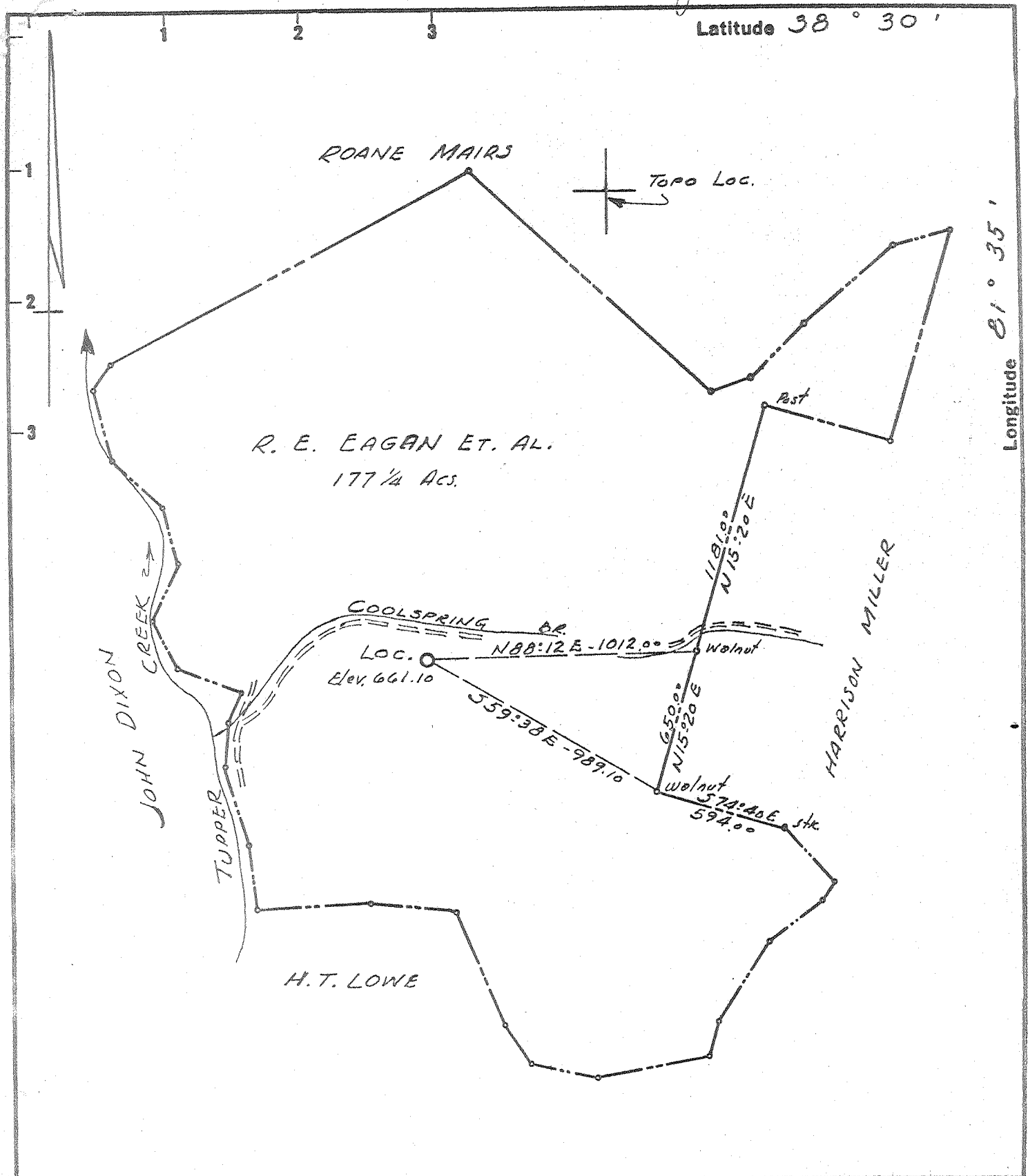
Date *DEC. 2, 1968* Scale *1" = 600'*

STATE OF WEST VIRGINIA
Division of Environmental Prot.
Office of Oil & Gas
Nitro, W.V.

WELL LOCATION MAP
APL Well No. 47-039-2342-Frac
Plus Bank 5

+ 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.



Fracture	<input type="checkbox"/>
Before 6/5/27	<input type="checkbox"/>
New Location	<input checked="" type="checkbox"/>
Drill Deeper	<input type="checkbox"/>
Redrill	<input type="checkbox"/>
Abandonment	<input type="checkbox"/>

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PROVEN ELEVATION *U.S.G.S. 101640 Road Intersect on Tupper*

Company HARRY HOLTON
 Address 808 - HIGH STREET WORTHINGTON, OHIO
 Farm R. E. EAGAN ET. AL.
 Tract _____ Acres 177 1/4 of 279.93 Unit Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 661.10
 Quadrangle CHARLESTON *Ne*
 County KANAWHA District POCA
 Engineer N. J. Sefton
 Engineer's Registration No. 1832
 File No. _____ Drawing No. _____
 Date DEC. 2, 1968 Scale 1" = 600'

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

WELL LOCATION MAP
 FILE NO. Kan-2342

+ 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.

6-6 Rock Fork Deep Well (Newburg)
 312

DEC 10 1968

OG-10 - Corrected



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage
Oil or Gas Well Gas (KIND)

Charleston
Pocatalico
Quadrangle
Permit No. 2342 -KANAWHA

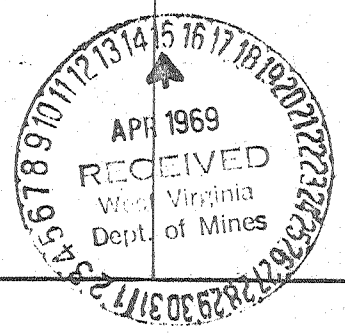
WELL RECORD

Company Harry A. Holton
Address 808 High St. Worthington, Ohio
Farm Howard Egan Acres 273.93 Unit Size
Location (waters) Cool Spring Branch
Well No. #1 Elev. 661 G.L. 13 3/8" 252 252
District Poca County Kanawha 676 K.B. 10
The surface of tract is owned in fee by H. Egan
Address Charleaton W. Va
Mineral rights are owned by Cities Service Oil Co.
& Harry A. Holton Address as above
Drilling commenced 12/14/68
Drilling completed 2/22/69
Date Fracked From 5511 To 5596
With 500 galls. MCA, 1500 BBls water, 30,000 #s sd.
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume Four Point AOF 12.5 Million Cu. Ft.
Rock Pressure Csg. 1649.2 lbs. hrs.
Oil bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS)
WELL FRACTURED (DETAILS) Frac with 500 galls MCA, 30,000 #s sand and 1500 BBls water
Avg. injection rate of 25BPM at 4500/#
RESULT AFTER TREATMENT (Initial open Flow or bbls.) 12.5 Million cubic feet per day
ROCK PRESSURE AFTER TREATMENT 1649.2 HOURS
Fresh Water 3 B.P.H. Feet 30" Salt Water Feet
Producing Sand Newburg Depth 5552

Casing and Tubing	Used in Drilling	Left in Well	Packers
16"	11'	11'	Kind of Packer
13 3/8"	252	252	Size of
10			Depth set
9 5/8"	1698'	1698'	Perf. top
8 7/8"	5511'	5511'	Perf. bottom
5 3/16"			Perf. top
4 1/2"			Perf. bottom
3"			Perf. top
2"	5535	5535	Perf. bottom

Attach copy of cementing record.
CASING CEMENTED 7" SIZE 5511 No. Ft. 2/20/69 Date
Amount of cement used (bags) 150 sacks
Name of Service Co. Dowell
COAL WAS ENCOUNTERED AT FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES
WELL FRACTURED (DETAILS) Frac with 500 galls MCA, 30,000 #s sand and 1500 BBls water
Avg. injection rate of 25BPM at 4500/#
RESULT AFTER TREATMENT (Initial open Flow or bbls.) 12.5 Million cubic feet per day
ROCK PRESSURE AFTER TREATMENT 1649.2 HOURS
Fresh Water 3 B.P.H. Feet 30" Salt Water Feet
Producing Sand Newburg Depth 5552

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay	gray	soft	0	6			
Gravel	gray	soft	6	8			
sand	tan	soft	8	40	water	30	fresh
slate	gray	soft	40	76	water	60	fresh
Red rock	red	hard	76	86			
slate	gray-tan	hard	86	205			
shell	gray	hard	205	216			
slate	gray-tan	soft	216	245			
Injun sd	gray	soft	1610	1642	sho of gas		
Berea sd	brown	hard	2260	2275			
Devonian shale	gray	soft	2275	4670			
Onondaga	cream	hard	4670	4762			
Oriskany	white	hard	4762	4796			
Helderberg	white	hard	4796	5550			
Newburg	white	hard	5550	5596	Gas	5552	5 MM Natural



Date 4/10/ 1969
Approved Harry A. Holton Owner
Harry A. Holton

APR 27 1969

RECEIVED

16513

039 - 2342 - Frac

Issued 12/30/92

Expires 12/30/94

FORM WW-2B Environmental Protection

DEC 04 92

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

Permitting Office of Oil & Gas

WELL WORK PERMIT APPLICATION

- 1) Well Operator: Viking Energy Inc. 51440 (8)
2) Operator's Well Number: R. Lagan #1 WV20187 3) Elevation: 661.10
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: 4670 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 X /
11) Proposed Well Work: Perforate and Fracture Shale Sand

12) Set Temporary or Permanent Plug if Permanent use lagter cement possible squeeze in frac shale.

CASING AND TUBING PROGRAM

Table with 7 columns: TYPE, SPECIFICATIONS (Size, Grade), WEIGHT (per ft.), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT (Fill-up). Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, and Liners.

PACKERS : Kind ___ Sizes ___ Depths set ___

For Division of Oil and Gas Use Only

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

16513

3881/42

DEC 0 4 92

- 1) Date: December 2 1992
- 2) Operator's well number
J. Sagan #1 WV20187
- 3) API Well No: 47 - 39 - 2342 - FRAC
State - County - Permit

DEPARTMENT OF ~~ENVIRONMENTAL PROTECTION~~ **STATE OF WEST VIRGINIA**
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- | | |
|--|---|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Lora L. Thaxton</u>
Address <u>1539 W. Washington St.</u>
<u>Charleston, WV. 25312</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name _____
Address _____</p> <p>(b) Coal Owner(s) with Declaration
Name <u>NO COAL</u>
Address _____</p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration
Name _____
Address _____</p> |
| <p>6) Inspector <u>Carlose Hivley</u>
Address <u>223 Pinch Ridge Road</u>
<u>Elk View WV 25071</u>
Telephone (304)- <u>965-6069</u></p> | |

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:

- 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.

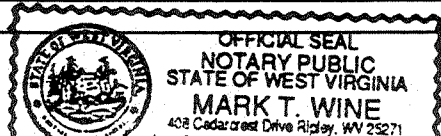
I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

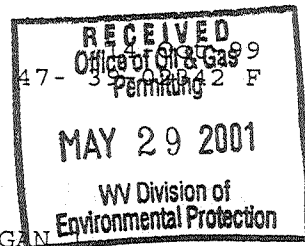
Well Operator Viking Energy Inc.
By: Michael Pinkerton
Its: Designated Agent
Address P. O. Box 13366
Sissonville, WV. 25360
Telephone 304-984-3389

Subscribed and sworn before me this 4 day of December, 1992

Mark T. Wine Notary Public

My commission expires _____





State of West Virginia
 Division of Environmental Protection
 Section of Oil and Gas
 Well Operator's Report of Well Work

Farm name: THAXTON, LAURA A. Operator Well No.: EAGAN

LOCATION: Elevation: 661.00 Quadrangle: POCATALICO

District: POCA County: KANAWHA
 Latitude: 7140 Feet South of 38 Deg. 30Min. 0 Sec.
 Longitude 4300 Feet West of 81 Deg. 37 Min. 30 Sec.

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

Agent: MICHAEL PINKERTON

Inspector: CARLOS HIVELY
 Permit Issued: 10/15/99
 Well work Commenced: 7-26-2000
 Well work Completed: 12-11-2000
 Verbal Plugging
 Permission granted on:
 Rotary Cable Rig
 Total Depth (feet) 5535
 Fresh water depths (ft) 30-60 feet
 Salt water depths (ft) N/A
 Is coal being mined in area (Y/N)? N
 Coal Depths (ft): N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13 3/8	252	252	cement to surface
9 5/8	1698	1698	
7	5511	5511	50 bags

OPEN FLOW DATA

Producing formation Newberg (completed 1968) Pay zone depth (ft) 5511-5535
 Gas: Initial open flow 12.5 MCF/d Oil: Initial open flow none Bbl/d
 Final open flow N/A MCF/d Final open flow none Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure 1649 psig (surface pressure) after 24 Hours

Second producing formation Oriskany Pay zone depth (ft) 4742-4762
 Gas: Initial open flow 10 MCF/d Oil: Initial open flow none Bbl/d
 Final open flow 30 MCF/d Final open flow none Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure 150 psig (surface pressure) after 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.

For: VIKING ENERGY CORPORATION
 By: Michael Pinkerton
 Date: 5-15-01

JUN - 1 2001

KAN 2342 F

Perf'd Oriskany from 4742-4762. (22 holes) Broke down with 250 gals acid.

Displaced with 6 bbls of treated H2O @ 9 bpm.

ATP: 4600psi. BDP: 4500 psi, ISIP: 2400 psi, Frac'd with 362 bbls of 25# link gel and 20,000 # sand. ATP:4480 psi, MTP: 5414 psi, ATR: 86pm, ISIP: 5420 psi.

Formation	Top	Bottom			Remarks
Clay	0	6			
Gravel	6	8			
Sand	8	40	Water	30	fresh
Slate	40	76	Water	60	Fresh
Red Rock	76	86			
Slate	86	205			
Shell	205	216			
Slate	216	245			
Injun Sd.	1610	1642	Sho of gas		
Beraa Sd.	2260	2275			
Devonian	2275	4670			
Onondage	4470	4762			
Oriskany	4762	4796			
Helderberg	4796	5550			
Newberg	5550	5596	Gas	5552	5 MM Natural