

Accuracy of survey is within limits set by the Oil & Gas Division, W.Va. Dept. of Mines.

Elevation based on U.S.G.S. B.M. #77-22, standard metal plate in concrete block north of Legg Fork Road, 1300' northeast of mouth of Munday Hollow. Elev. = 645.0

"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."

*John H. Burtnett*

- New Location
- Drill Deeper
- Abandonment

Company Viking Energy, Inc.  
 Address Box 1336e, Sissonville, W.V.  
 Farm J.T. YOUNG ETAL UNIT  
 Tract \_\_\_\_\_ Acres 60 Lease No. 46,353  
 Well (Farm) No. 1 Serial No. 5011  
 Elevation (Spirit Level) 737.3  
 Quadrangle CHARLESTON 15/ Big Chimney 7.5  
 County KANAWHA District POCA  
 Engineer John H. Burtnett  
 Engineer's Registration No. 1442  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date AUG. 26, 1969 Scale 1" = 500'

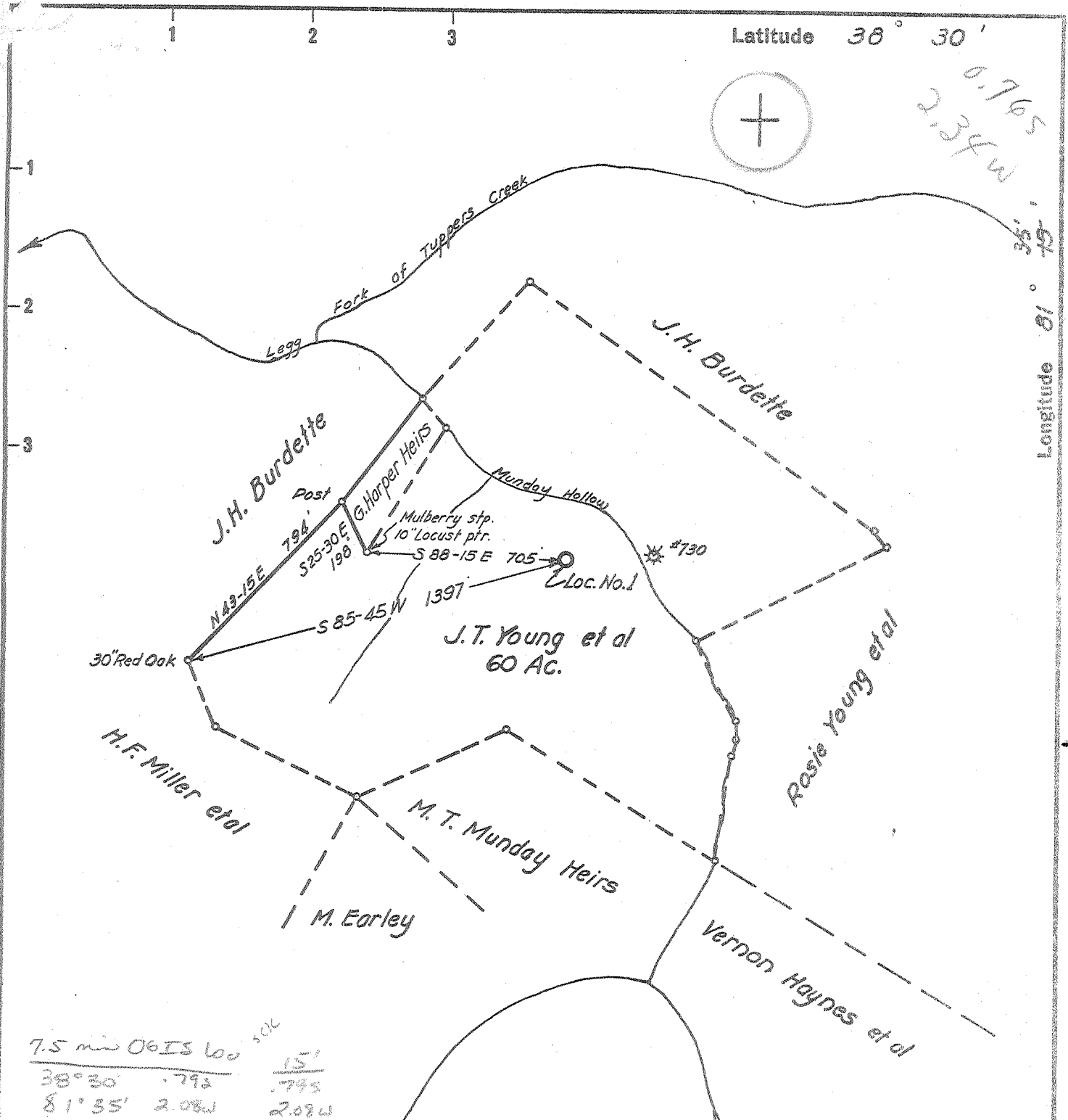
STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

WELL LOCATION MAP  
 Well No. 47-039-2425-1  
 Plug Back 7

+ 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 24251P



7.5 min	06 IS	60	500
38° 30'	.792	.795	
81° 35'	2.08 W	2.08 W	

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*John H. Burnett*

- New Location
- Drill Deeper
- Abandonment

Company ASHLAND OIL & REFINING CO.  
 Address ASHLAND, KENTUCKY  
 Farm J.T. YOUNG ETAL UNIT  
 Tract \_\_\_\_\_ Acres 60 Lease No. 46,353  
 Well (Farm) No. 1 Serial No. 5011  
 Elevation (Spirit Level) 737.3  
 Quadrangle CHARLESTON NC  
 County KANAWHA District POCA  
 Engineer John H. Burnett  
 Engineer's Registration No. 1442  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date AUG. 26, 1969 Scale 1" = 500'

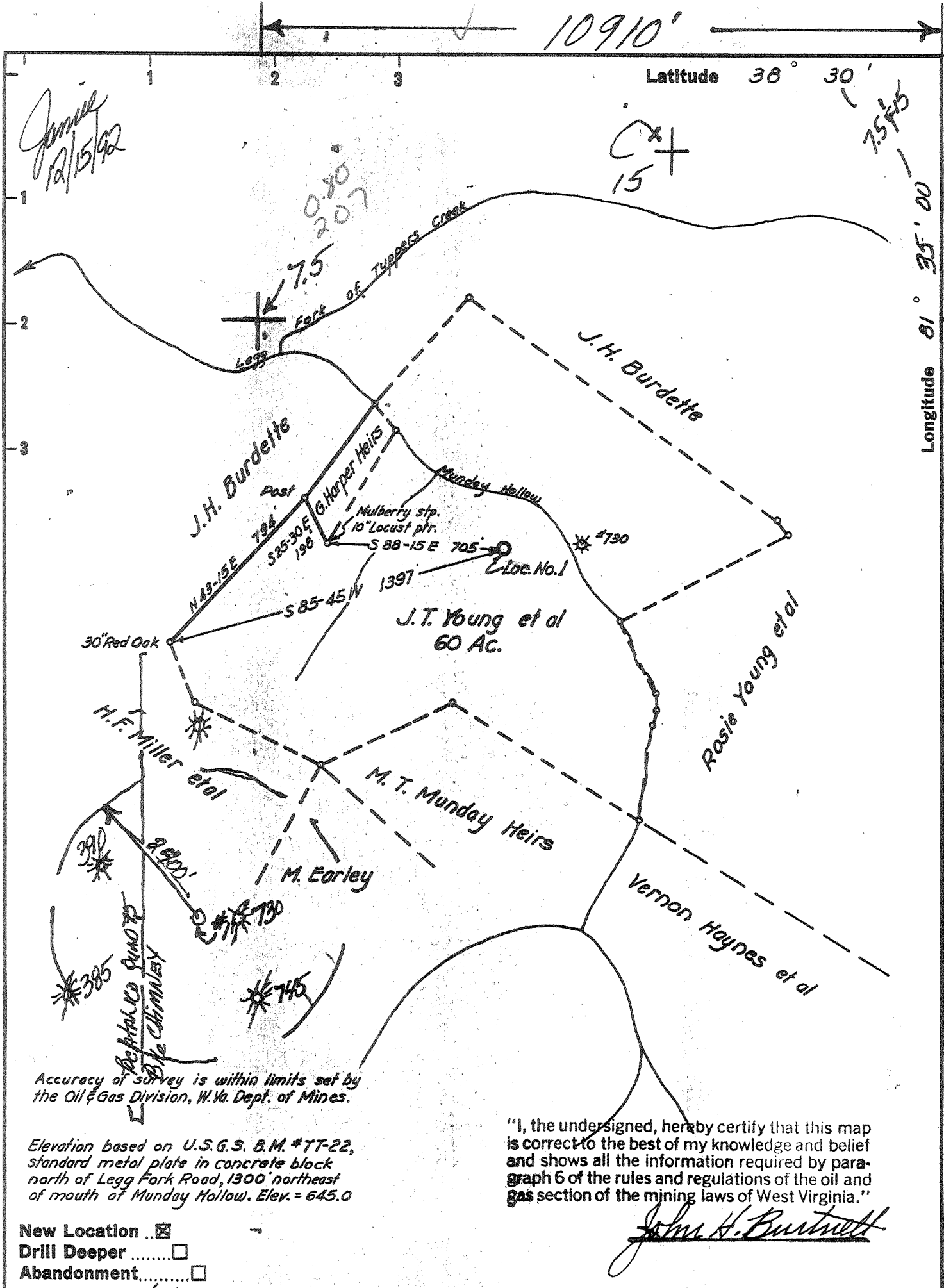
STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

WELL LOCATION MAP  
 FILE NO. Kan-2425

+ 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.

*Deep Well (Newburg)*



Company Viking Energy, Inc. 10915  
 Address Box 1336e, Sissonville, W.V.  
 Farm J.T. YOUNG ETAL UNIT  
 Tract \_\_\_\_\_ Acres 60 Lease No. 46,353  
 Well (Farm) No. 1 Serial No. 5011  
 Elevation (Spirit Level) 737.3  
 Quadrangle CHARLESTON 15/ Big Chimney 7.5  
 County KANAWHA District POCA 8  
 Engineer John H. Burtwell  
 Engineer's Registration No. 1442  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date AUG. 26, 1969 Scale 1" = 500'

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

**WELL LOCATION MAP**  
Oil Well No. 47-039-2425-1  
Plug Back #7

+ 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.

DEC 18 1992



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

Rotary   
Spudder   
Cable Tools   
Storage

Quadrangle Charleston 2-3

WELL RECORD

Oil or Gas Well Gas  
(KIND)

Permit No. KAN-2425

Company Ashland Oil & Refining Company  
Address Box 391, Ashland, Kentucky 41101  
Farm J. T. Young et al Unit Acres 60  
Location (waters) Munday Hollow of Legg Fork of Tupper Creek  
Well No. 1 Elev. 741.6 G.L.  
District Poca County Kanawha  
The surface of tract is owned in fee by G. H. Pauley  
Phone #984-3744 Address Sissonville, W. Va.  
Mineral rights are owned by Bertram D. Young et al  
5140 Indiana Ave. Address Charleston, W. Va.  
Drilling commenced 9/1/69  
Drilling completed 9/13/69  
Date Shot From To  
With  
Open Flow /10ths Water in Inch  
/10ths Merc. in Inch  
Volume No test, est. 20 MM Cu. Ft.  
Rock Pressure 1495 on 11/5/69 lbs. hrs.  
Oil bbls., 1st 24 hrs.  
WELL ACIDIZED (DETAILS)  
WELL FRACTURED (DETAILS) 11/3/69 Newburg fractured by Dowell w/868 bbl. treated wtr. & 30,000# 20/40 Sand. Avg. Inj. rate of 25.4 B/M w/ 3/4# Sd/gal.  
RESULT AFTER TREATMENT (Initial open Flow or bbls.) 28,465 MCF/D, Side Static: See Isochronal, 44,500 MCF/GPI  
44.5 MMCF/D  
ROCK PRESSURE AFTER TREATMENT 1458 Spring gage HOURS 24  
Fresh Water Feet Salt Water Feet  
Producing Sand Newburg Sand Depth 5622-5644

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
13 3/8	74	74	Cemented @ 91
9 5/8	1753	1753	Cem. @ 1770
7	5579	5579	Cem. @ 1595
6 1/2			Depth set
5 3/16			
4 1/2			Perf. top
3		5605	Perf. bottom 5619
2 3/8			Perf. top
Liners Used			Perf. bottom

Attach copy of cementing record. 13 3/8" x/80 Sx. Oct. 1, 1969  
CASING CEMENTED 9 5/8 SIZE 450 Sx. No. Ft. Date  
Amount of cement used (bags) 7"/100 Sx.  
Name of Service Co. Well Service, Halliburton, 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
Sand			0	113			
Sd. & Shale			113	258			
Shale			258	305			
Sand			305	355			
Sand & Shale			355	723			
Shale			723	990			
Salt Sand	<u>Salt</u>		990	1452	<u>5622</u>	<u>5622</u>	
Shale			1452	1460	<u>4832</u>	<u>742</u>	
Little Lime			1460	1490	<u>790</u>	<u>-4880</u>	
Pencil Cave			1490	1493			
Big Lime			1493	1660			
Shale			1660	1665			
Injun			1665	1718			
Shale & Sand			1718	1826			
Shale			1826	2116			
Sand & Shale			2116	2156			
Shale			2156	4734			
Corniferous Lime			4734	4832			
Oriskany Sand			4832	4882			
Lime & Dolomite			4882	5622			
Newburg			5622	5644			
Dolomite	<u>McKenzie</u>		5644	5660			
TOTAL DEPTH				5660			

RECEIVED

JAN 7 1970

OIL & GAS DIVISION  
DEPT. OF MINES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
<u>Casing Record</u>							
73.85' of 13	3/8" 48#	J-55 @ 90.50					w 80 sx. cement, 200# calcium chloride, circulated to surface by Well Service, Inc. 10/1/69
1753' of 9	5/8" 32.30#	H-40 @ 1770					w/350 sx. light cem, 100 sx. Reg. Bulk cem w/2% Calcium Chloride .15 sx. Gel pumped ahead of cement. Cement circulated w/Guide shoe, insert float valve, self-filling Unit and 3 centralizers by Halliburton 10/5/69
5579' of 7"	23# N-80	@ 5595' w/100					sx. Bulk cem, 200# cello flakes, 50 CWT Bentonite, 4 Sx. cotton seed hulls, 5 sx. Plug Git w/Guide shoe, insert float valve and 5 centralizers by Dowell 10/10/69
5605' of 2	3/8" 4.6#	J-55 tubing @					5619 w/3' perf. nipple - bottom pinched, non-ported seating nipple on top of perf.
<u>Remarks</u>							
Wet @ 135',	salt water @	990', H <sub>2</sub> S					gas @ 5208' and damp Newburg gas @ 5622' - not gauged because of potential danger of explosion. Est. by eye to be between 15 & 20 MMCF.
Dowell Frac Newburg down	7" csg.	11/3/69					w/868 bbl. treated water (30 gal. detergent, 20 gal. free flo, 600# fluid loss J-84 & 1000# J-111). 30,000# 20/40 sand. Avg. Inj. rate of 25.4 B/M w/ 3/4# Sd/gal. @ 3680 psi. Ran 500 gal. mud acid and 55 gal. Baroid B-11 Biocide ahead of frac. Aircowell kicked off well w/71,046 Std. cu. ft. of Nitrogen on 11/3/69.
11/4/69	24.Hr. Spring gauge	1458 psi,					blowed to atomosphere 10 min., Side Static showed 28.465 MCF.
12/22/69	Calculated Absolute Open Flow						by Isochronal back pressure test on 12/22/69, Newburg 44.5 MMCF/D w/wellhead pressure 1477.4 psig - Dead Weight.

Date January 2, 19 7

APPROVED Ashland Oil & Refining Company, Own

By Paul W. Sturm  
Division Manager (Title)

RECEIVED  
WV Division of  
Environmental Protection

039 - 2425 - Frac.

16514

Issued 12/15/92

FORM WW-2B DEC 0 4 92

Page of

Express 12/15/94

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
Office of Oil & Gas WELL WORK PERMIT APPLICATION

1095

51440 (8)

- 1) Well Operator: Viking Energy Inc.
- 2) Operator's Well Number: J. T. Young #1 WV9733 3) Elevation: 737.3
- 4) Well type: (a) Oil  / or Gas  /  
(b) If Gas: Production  / Underground Storage  /  
Deep  / Shallow  /
- 5) Proposed Target Formation(s): Shale Sand 441
- 6) Proposed Total Depth: 4734 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  /
- 11) Proposed Well Work: Perforate and Fracture Shale Sand
- 12) Refracture Plug Back with Surfactant possible. Increase # FRAC

Existing well up hole CASING AND TUBING PROGRAM  
in shale.

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE FOR DRILLING	FOOTAGE LEFT IN WELL	CEMENT (cu. ft.)
Conductor	13 3/8			74	74	80 bags
Fresh Water	9 5/8			1753	1753	350 bags
Coal						600 Well Records 150 STAGS
Intermediate	7			5579	5579	100 bags
Production	2 3/8			5605	5605	
Tubing						Well Records
Liners						

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

7850 / 42

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP

Plat  WW-9  WW-2B  Bond Blanket CDS  Agent

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WV Division of  
Environmental Protection

DEC 04 92

Permitting  
Office of Oil & Gas

- 1) Date: November 30, 1992
- 2) Operator's well number  
J. T. Young #1 WY9733
- 3) API Well No: 47 - 39 - 2425 - FRAC  
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
  - (a) Name ~~XXXXXXXXXX~~
  - Address ~~XXXXXXXXXX~~
  - (b) Name Joseph Chandler
  - Address 1349 Legg Fork Rd.  
Sissonville WV 25320
  - (c) Name \_\_\_\_\_
  - Address \_\_\_\_\_
- 6) Inspector Carlos Hivley
- Address 225 Pinch Ridge Road  
Elk View, WV. 25071
- Telephone (304)- 965-6069

- 5) (a) Coal Operator:
  - Name \_\_\_\_\_
  - Address \_\_\_\_\_
  - (b) Coal Owner(s) with Declaration  
Name NO COAL
  - Address \_\_\_\_\_
  - Name \_\_\_\_\_
  - 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)

INSTRUCTIONS TO SURFACE OWNERS NAMED ABOVE

(Continued on Reverse)

The well operator named below is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22B of the West Virginia Code. Well work permits are valid for 24 months.

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 \_\_\_\_\_

