

Minimum Error of Closure 1 in 200

Source of Elevation Elev. Cons. N.G.Co. Well No. 11372 = 814

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.

Fracture.....

New Location.....

Drill Deeper.....

Abandonment..... 11/8/76

Map No.

Signed: *M. H. Jones*

Squares: N S E W

Company UNITED OPERATING CO.
 Address 600 Commerce Sq., Charleston, West Va.
 Farm Zimri Flanagan FLANAGAN
 Tract _____ Acres 570 Lease No. _____
 Well (Farm) No. Two-A Serial No. _____
 Elevation (Spirit Level) 805
 Quadrangle Holbrook WC
 County Ritchie District Union
 Engineer M. H. Jones
 Surveyor's Registration No. 1227
 File No. _____ Drawing No. _____
 Date Nov. 18, 1974 Scale 1" = 200'

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

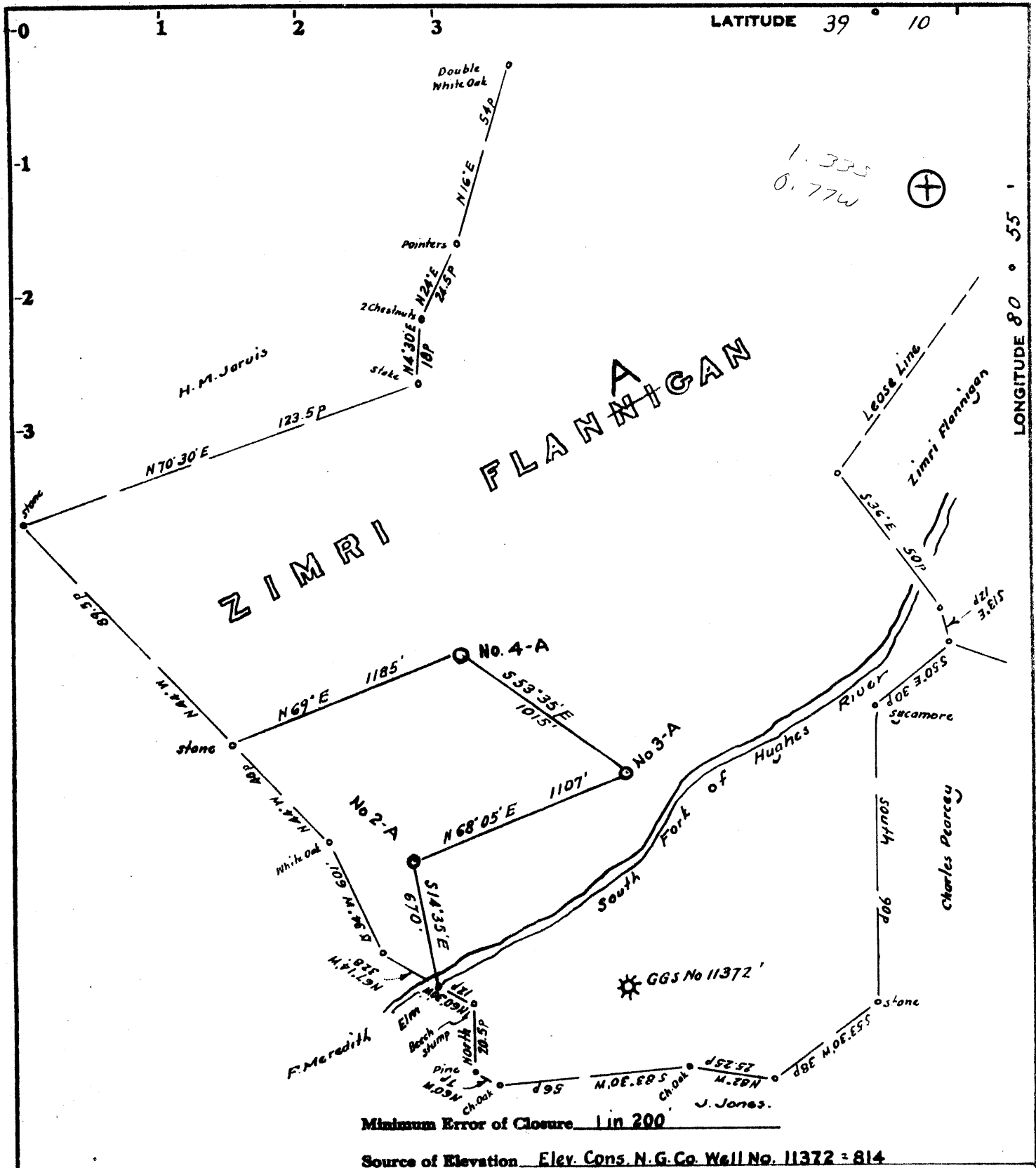
WELL LOCATION MAP

FILE NO. Rit-3580-P

+ Denotes location of well on United States Topographic Maps, scale 1 to _____, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

NOV 18 1974



Minimum Error of Closure Lin 200
 Source of Elevation Elev. Cons. N.G. Co. Well No. 11372 = 814

Fracture
 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.

Signed: M. J. Jones
 Squares: N S E W

Map No. _____

Company UNITED OPERATING CO.
 Address 202 Commerce Bldg., Charleston, West Va.
 Farm Zimri Flanagan FLANAGAN
 Tract _____ Acres 570 Lease No. _____
 Well (Farm) No. Two-A Serial No. _____
 Elevation (Spirit Level) 805
 Quadrangle Helbrook WC
 County Ritchie District Union
 Engineer M. J. Jones
 Surveyor's Registration No. 1227
 File No. _____ Drawing No. _____
 Date Nov. 18, 1974 Scale 1" = 40 P

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

WELL LOCATION MAP
 FILE NO. Rit-3580

+ Denotes location of well on United States Topographic Maps, scale 1 to _____, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing. 47085



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

Rotary
Spudder
Cable Tools
Storage

Quadrangle Holbrook

WELL RECORD

Permit No. RIT-3580

Oil or Gas Well

Gas
(Kind)

Company <u>United Operating Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>600 Commerce Sq., Charleston, W, Va.</u>				
Farm <u>Flanagan</u> Acres <u>570</u>	Size			
Location (waters) <u>Hughes River</u>	16			Kind of Packer
Well No. <u>2-A</u> Elev. <u>805</u>	13			Size of
District <u>Union</u> County <u>Ritchie</u>	10			Depth set
The surface of tract is owned in fee by <u>Zimri Flanagan Heirs</u> Address <u>Pullman, W, Va.</u>	8 1/4 <u>7</u>	400	400	
Mineral rights are owned by	6 5/8			Perf. top
Address	5 3/16	0	1852	Perf. bottom
Drilling commenced <u>January 13, 1975</u>	4 1/2			Perf. top
Drilling completed <u>January 19, 1975</u>	3			Perf. bottom
Date Shot From To	2			Perf. top
With	Liners Used			Perf. bottom

Open Flow /10ths Water in _____ Inch Attach copy of cementing record.

/10ths Merc. in _____ Inch CASING CEMENTED 7 SIZE 400 No. Ft. 1/20/75 Date

Volume 100 Mcf Cu. Ft. Amount of cement used (bags) _____

Rock Pressure N. A. lbs. hrs. Name of Service Co. Dowell

Oil _____ bbls., 1st 24 hrs. COAL WAS ENCOUNTERED AT None FEET _____ INCHES

WELL ACIDIZED (DETAILS) _____ FEET _____ INCHES FEET _____ INCHES

WELL FRACTURED (DETAILS) 1-23-75 42,000 Gals. Water - 50,000# Sand FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) Sho Gas - No Oil

ROCK PRESSURE AFTER TREATMENT 600 psi HOURS 48

Fresh Water 20 ft. Feet Salt Water _____ Feet

Producing Sand. Big Injun Depth 1852

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Shale & Sand	Grey	Hard	0	1144			
Sand	Grey	Hard	1144	1244			
Shale	Grey	Soft	1244	1514			
Sand	Grey	Hard	1514	1580			
Shale	Grey	Soft	1580	1608			
Lime & Sand	Grey	Hard	1608	1794			
Shale	Grey	Soft	1794	1852	Sho Gas	<u>1720-30</u>	
				1852	T. D.		



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

JAN 8 1974

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE January 8, 1975

Surface Owner Zimri Flanagan
Address Pullman, West Virginia

Company United Operating Company
Address Charleston, West Virginia

Mineral Owner Same
Address _____

Farm Zimri Flanagan Acres 570
Location (waters) South Fork Hughes River

Coal Owner Same
Address _____

Well No. 2-A Elevation 1074-805
District Union County Ritchie

Coal Operator None
Address _____

Quadrangle Holbrook

THIS PERMIT MUST BE POSTED AT THE WELL SITE

INSPECTOR TO BE NOTIFIED Paul Goodnight
Smithville, W. Va. PH: 477-2455

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 5-8-75

[Signature]
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated 11-16-1898xx by Zimri Flanagan made to Hope Natural Gas Co. and recorded on the _____ day of _____ 19 , in Ritchie County, Book 10 Page 457

XX NEW WELL _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE
_____ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

West Virginia Geological and Economic Survey
P. O. Box 879
Morgantown, W. Va. 26505
AC 304-296-4461

Very truly yours,

(Sign Name) _____

[Signature]
Well Operator

Address
of
Well Operator

600 Commerce Square
Street
Charleston
City or Town
West Virginia
State

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

RIT- 3580 _____ PERMIT NUMBER

47-085

BLANKET BOND

**THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Haught Brothers Drilling Co. NAME J. L. Trittipo
 ADDRESS Smithville, West Virginia ADDRESS 600 Commerce Sq., Charleston, WVA
 TELEPHONE 477-2222 TELEPHONE 343-9383
 ESTIMATED DEPTH OF COMPLETED WELL: 2000 ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Big Injun
 TYPE OF WELL: OIL _____ GAS X COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	200 Feet	200 Feet	Circulated
7			
5 1/2			
4 1/2	0	2000 Feet	500 Feet Fillup
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 20 FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS _____
 IS COAL BEING MINED IN THE AREA? No BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title