

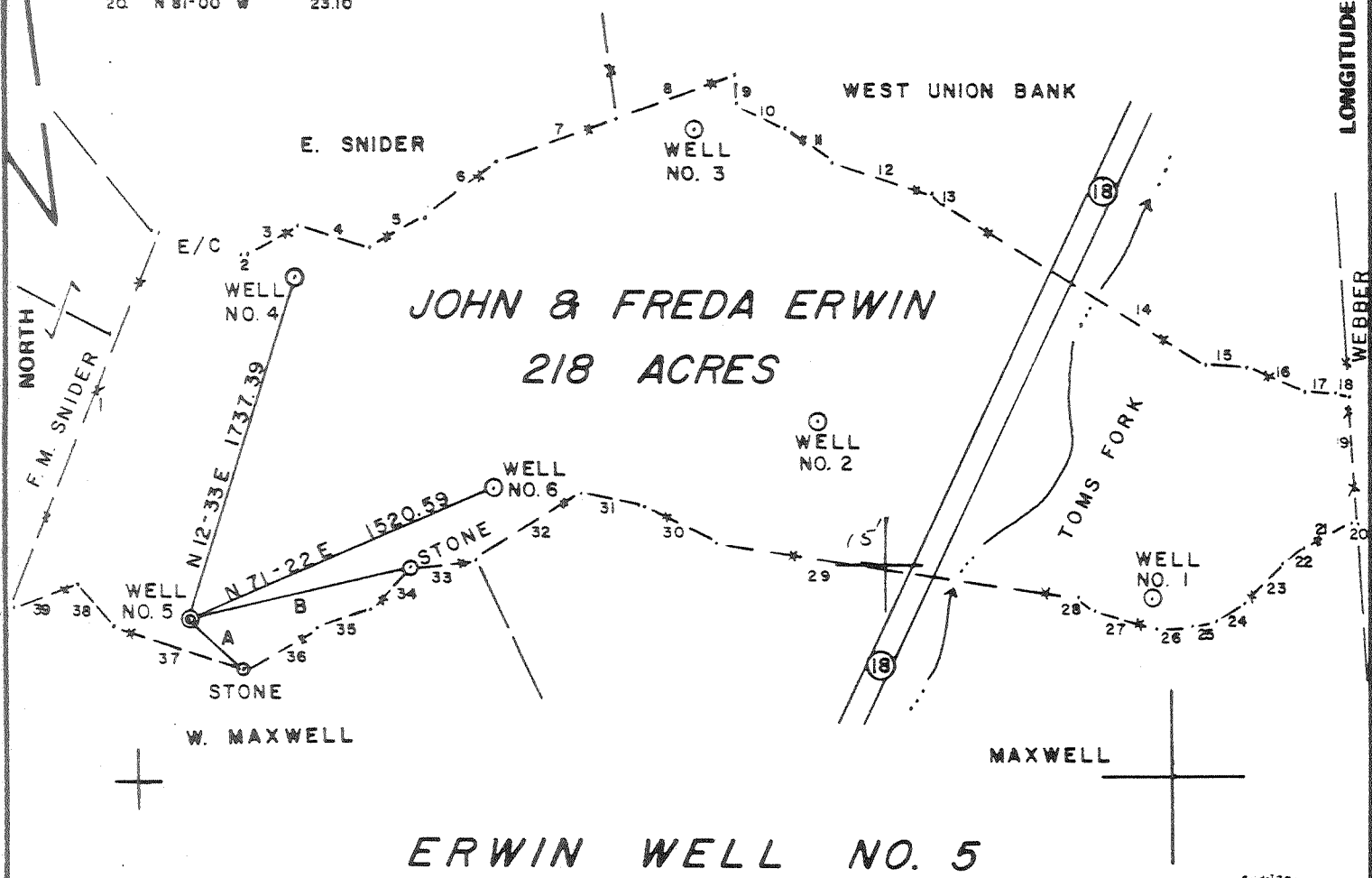
39° 15'

LATITUDE 39° 12' 30"

LONGITUDE 80° 42' 30"

1.	N 21-30 E	1848.00	21.	S 61-00 W	239.27
2.	S 87-00 E	33.00	22.	S 52-45 W	128.70
3.	N 62-00 E	255.78	23.	S 45-00 W	255.78
4.	S 75-00 E	346.50	24.	S 55-00 W	143.88
5.	N 62-00 E	297.00	25.	S 78-00 W	99.00
6.	N 52-00 E	404.25	26.	S 84-00 W	181.70
7.	N 70-00 E	577.50	27.	N 71-00 W	290.40
8.	N 70-00 E	594.00	28.	N 58-30 W	90.78
9.	S 1-00 E	138.80	29.	N 81-00 W	1,666.50
10.	S 62-00 E	346.80	30.	N 64-00 W	384.78
11.	S 54-00 E	280.50	31.	N 78-00 W	303.25
12.	S 72-30 E	473.55	32.	S 57-00 W	581.00
13.	S 41-15 E	74.25	33.	S 83-00 W	297.00
14.	S 58-00 E	1,402.50	34.	S 41-00 W	264.00
15.	S 86-30 E	181.50	35.	S 71-00 W	272.25
16.	S 67-30 E	297.00	36.	S 59-00 W	375.38
17.	S 85-30 E	122.10	37.	N 72-00 W	822.88
18.	S 77-30 E	79.20	38.	N 41-15 W	243.38
19.	S 3-00 E	588.78	39.	S 71-00 W	313.50
20.	N 81-00 W	23.10			

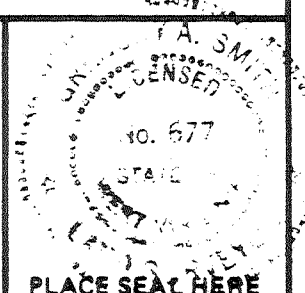
LINE A S 46-19 E 339.68  
 LINE B N 79-47 E 1059.15



**ERWIN WELL NO. 5**

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" / 800'  
 MINIMUM DEGREE OF ACCURACY 1 / 200  
 PROVEN SOURCE OF ELEVATION INTERSECTION OF ROADS ON PROPERTY - ELEV. 892'

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 MINES.  
 (SIGNED) Gregory A. Smith  
 R.P.E. \_\_\_\_\_ L.L.S. 677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE OCTOBER 2, 1980  
 OPERATOR'S WELL NO. 5  
 API WELL NO. 47-017-2917  
 STATE COUNTY PERMIT

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

*Cancelled*

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP  SHALLOW \_\_\_\_\_  
 LOCATION: ELEVATION 1214' WATERSHED TOMS FORK  
 DISTRICT NEW MILTON COUNTY DODDRIDGE  
 QUADRANGLE NEW MILTON 7.5'  
 SURFACE OWNER FREDA & JOHN ERWIN ACREAGE 218  
 OIL & GAS ROYALTY OWNER FREDA & JOHN ERWIN LEASE ACREAGE 218  
 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) \_\_\_\_\_

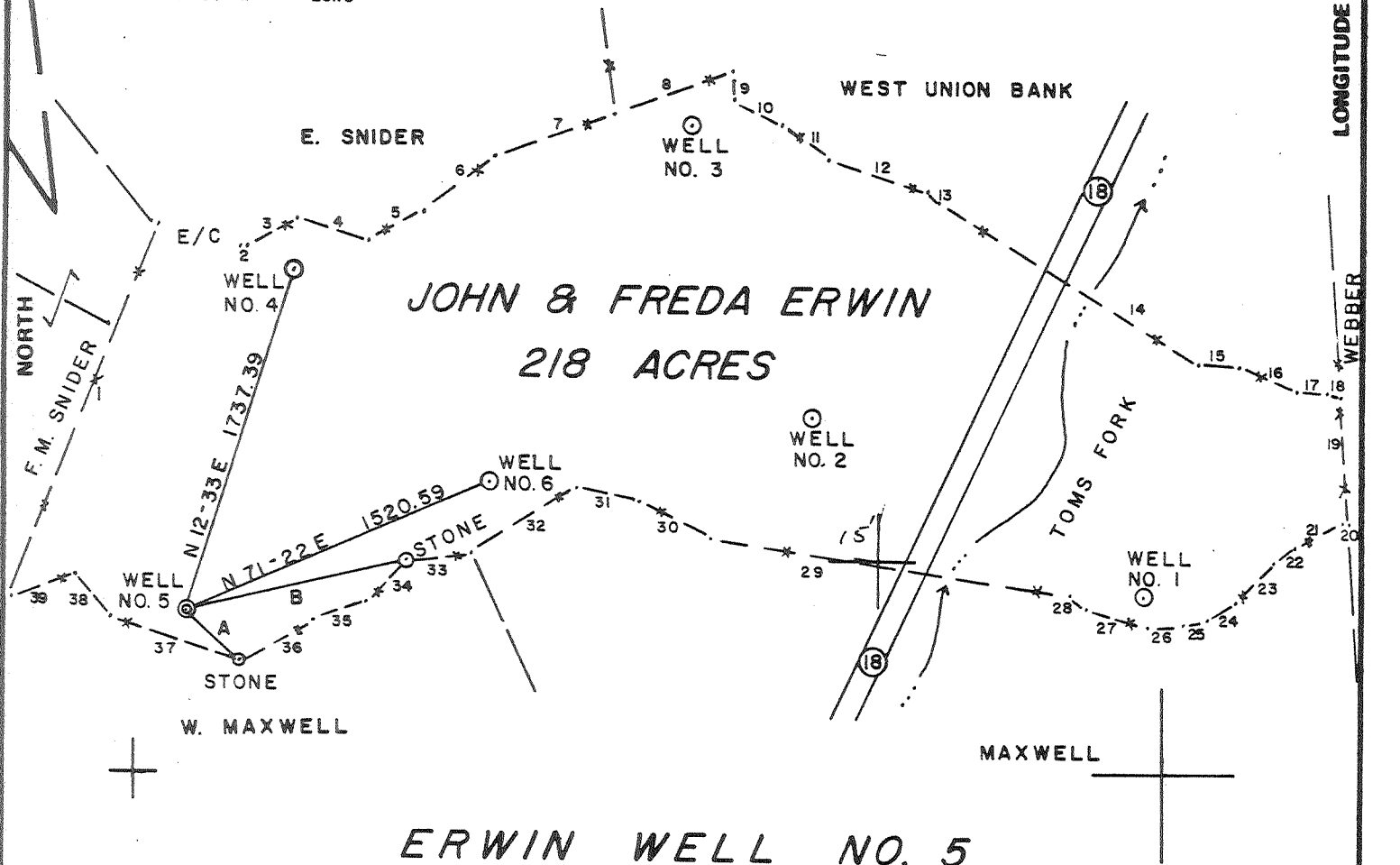
PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION DAVONIAN SHALE ESTIMATED DEPTH 5550'  
 WELL OPERATOR SWIFT ENERGY CO. DESIGNATED AGENT E. A. BROOME  
 ADDRESS 654 E. NORTH BELT SUITE 212 ADDRESS RT. 76 BOX 35E  
HOUSTON, TEXAS 77060 GLENNVILLE, W. V. 26351

MAY 7 1984

1.	N 21-30 E	1848.00	21.	S 61-00 W	239.27
2.	S 87-00 E	33.00	22.	S 52-45 W	128.70
3.	N 62-00 E	255.76	23.	S 45-00 W	255.76
4.	S 75-00 E	346.50	24.	S 65-00 W	143.58
5.	N 62-00 E	297.00	25.	S 78-00 W	99.00
6.	N 52-00 E	404.25	26.	S 84-00 W	161.70
7.	N 70-00 E	577.50	27.	N 71-00 W	290.40
8.	N 70-00 E	594.00	28.	N 56-30 W	90.78
9.	S 1-00 E	138.60	29.	N 81-00 W	1,666.50
10.	S 62-00 E	346.50	30.	N 64-00 W	354.75
11.	S 54-00 E	280.50	31.	N 78-00 W	303.25
12.	S 72-30 E	473.55	32.	S 57-00 W	561.00
13.	S 41-15 E	74.25	33.	S 89-00 W	297.00
14.	S 58-00 E	1,402.50	34.	S 41-00 W	264.00
15.	S 86-30 E	181.50	35.	S 71-00 W	272.25
16.	S 67-30 E	297.00	36.	S 59-00 W	375.38
17.	S 85-30 E	122.10	37.	N 72-00 W	622.88
18.	S 77-30 E	79.20	38.	N 41-15 W	243.38
19.	S 3-00 E	585.75	39.	S 71-00 W	313.50
20.	N 81-00 W	23.10			

LINE A S 46-19 E 339.68  
 LINE B N 79-47 E 1059.15

LONGITUDE 80° 42' 30"

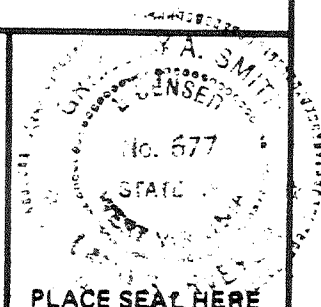


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 MINIMUM DEGREE OF ACCURACY 1/200  
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(SIGNED) Gregory A. Smith  
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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE OCTOBER 2, 19 80  
 OPERATOR'S WELL NO. 5  
 API WELL NO. \_\_\_\_\_  
47 - 017 - 2917  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

*Can called*

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS.") PRODUCTION  STORAGE \_\_\_\_\_ DEEP  SHALLOW \_\_\_\_\_  
 LOCATION: ELEVATION 1214' WATERSHED TOMS FORK  
 DISTRICT NEW MILTON COUNTY DODDRIDGE  
 QUADRANGLE NEW MILTON 7.5'  
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 OIL & GAS ROYALTY OWNER FREDA & JOHN ERWIN LEASE ACREAGE 218  
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PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

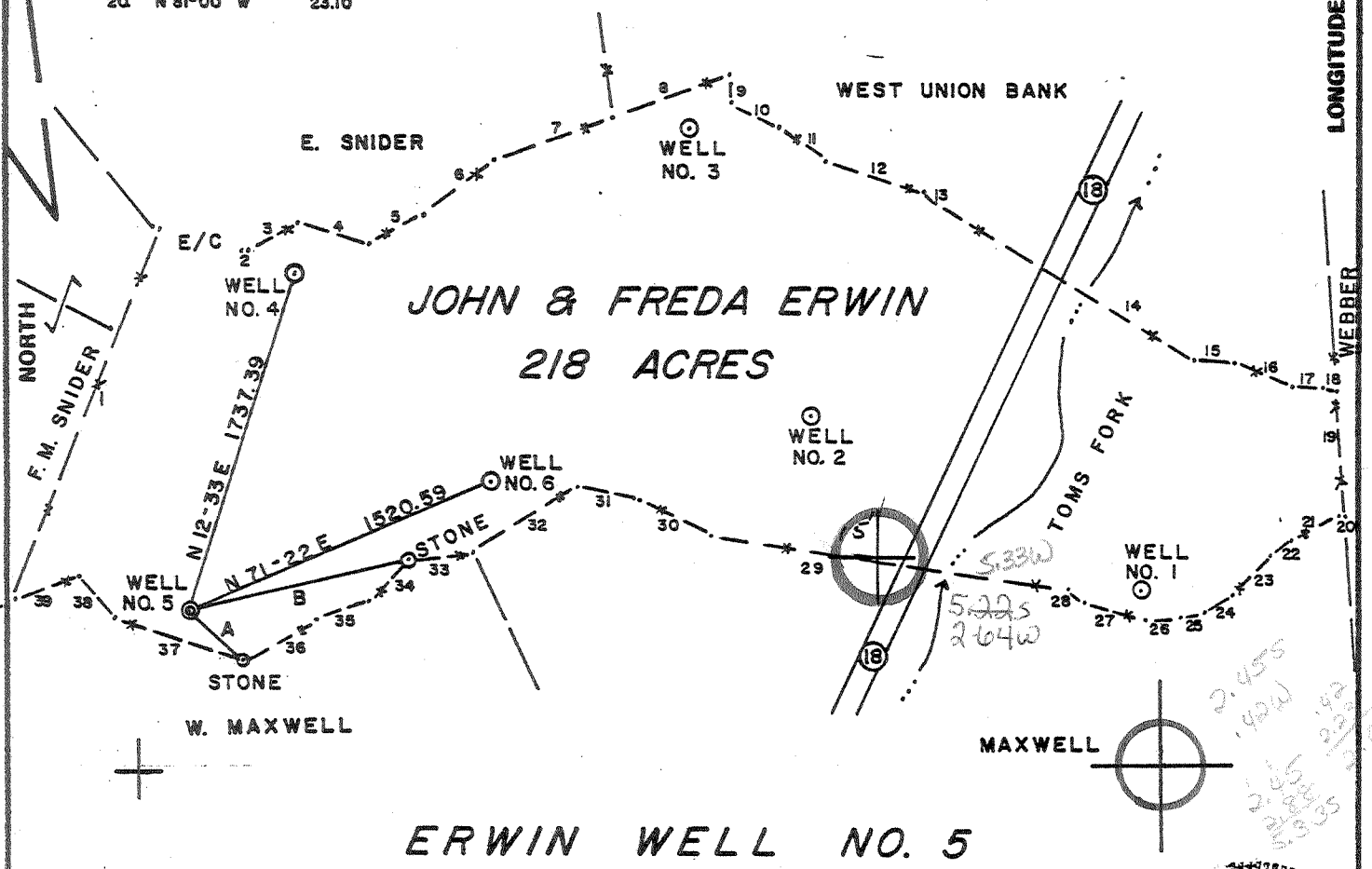
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 ADDRESS 654 E NORTH BELT SUITE 212 ADDRESS RT. 76 BOX 35E  
HOUSTON, TEXAS 77060 GLENVILLE, W. V. 26351

LATITUDE 39° 12' 30"

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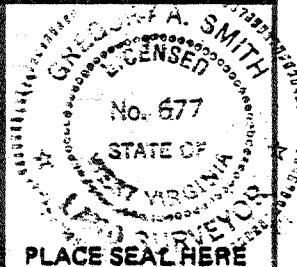
LONGITUDE 80° 42' 30"



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FILE NO. \_\_\_\_\_  
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 R.P.E. \_\_\_\_\_ L.L.S. 677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE OCTOBER 2, 19 80  
 OPERATOR'S WELL NO. 5  
 API WELL NO. 47 - 017 - 2917  
 STATE 47 COUNTY 017 PERMIT 2917

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
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 PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION DAVONIAN SHALE ESTIMATED DEPTH 5550'  
 WELL OPERATOR SWIFT ENERGY CO. DESIGNATED AGENT E. A. BROOME  
 ADDRESS 654 E. NORTH BELT SUITE 212 ADDRESS RT. 76 BOX 35E  
HOUSTON, TEXAS 77060 GLENNVILLE, W. V. 26351



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED  
DEC 30 1980

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner Freda & John Erwin  
Address New Milton, WV  
Mineral Owner Freda & John Erwin  
Address New Milton, WV  
Coal Owner Freda & John Erwin  
Address New Milton, WV  
Coal Operator -None-  
Address \_\_\_\_\_

DATE November 11, 1980  
Company Swift Energy Company  
Address 654 E. North Belt, Suite 212, Houston,  
Farm Erwin Acres 218  
Location (waters) Toms Fork  
Well No. Five (5) Elevation 1214'  
District New Milton County Doddridge  
Quadrangle New Milton 7.5'

THIS PERMIT MUST BE POSTED AT THE WELL SITE

provisions being in accordance with Chapter 22,  
the W. Va. Code, the location is hereby approved  
drilling. This permit shall expire if  
operations have not commenced by 8-31-81.

INSPECTOR  
TO BE NOTIFIED Paul Garrett  
ADDRESS 321 Beech St., Clarksburg, WV  
PHONE 622-3871

J. H. Huggins  
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 October 1 1980 by Freda H. Erwin made to Trio Petroleum Corp. and recorded on the 15th day of October 1980 in Doddridge County, Book 117 Page 393

XXX 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, WEST VIRGINIA 26505  
AC-304 - 292-6331

Address  
of  
~~WVX OXXXX~~  
Agent

Very truly yours,  
(Sign Name) *E. A. Broome*  
~~WVX OXXXX~~ E. A. Broome, Agent  
Rt. 76, Box 35-E  
Street  
Glenville  
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.

BLANKET BOND

47-017-2917 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by *E. A. Broome*

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

PROPOSED WORK ORDER TO XXXX DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME Union Drilling, Inc. NAME E. A. Broome  
 ADDRESS Drawer 40, Buckhannon, WV ADDRESS Rt. 76, Box 35-E, Glenville, WV  
 TELEPHONE 472-461- TELEPHONE 462-7311  
 ESTIMATED DEPTH OF COMPLETED WELL: 5550' ROTARY XXX CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Devonian Shale  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS XXX 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	1200'	1200'	330 Sks. - C.T.S
7			
5 1/2			
4 1/2		5450'	540 150 Sks. or as
3			Perf. Top <i>repl. by rule</i>
X 1 1/2"		5350'	Perf. Bottom <i>15.c.1</i>
1 INCH			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100 FEET SALT WATER N/A FEET  
 APPROXIMATE COAL DEPTHS -None-  
 IS COAL BEING MINED IN THE AREA? No BY WHOM? N/A

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