

15 MIN. Longitude 81° 40'
7.5 TOPO = 81° 42' 30"

Minimum Error of Closure 1 IN 200
 Source of Elevation USGS Elev. 709' Road Intersection
SOUTH EAST OF Well Loc.
 "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."

Company SOUTHERN TRIANGLE OIL CO.
 Address Box 473, MOUNT CARMEL, ILLINOIS
 Farm RUTH FRENCH ET AL
 Tract _____ Acres 121 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 672' 0 NW
 Quadrangle 15' KENNA 7.5' KENNA
 County JACKSON District RIPLEY
 Engineer N. L. Seyton
 Engineer's Registration No. 1832
 File No. _____ Drawing No. _____
 Date 6-10-29-76 Scale 1" = 500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. JAC-1386
 + 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.
47-035 DEC 20 1976



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

RECEIVED

MAR 27 1978

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD

Quadrangle 15' Kenna 7.5 Kenna

Permit No. Jac 1386

Rotary X Oil _____
Cable _____ Gas X _____
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Company	Address	Farm	Location (waters)	Well No.	District	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
<u>Southern Triangle Oil Co.</u>	<u>Box 473 - Mt. Carmel, Illinois</u>	<u>Ruth French Hrs.</u>	<u>Wolf Creek</u>	<u>1</u>	<u>Ripley</u>	<u>13-10"</u>	<u>200</u>	<u>200</u>	<u>200</u>
		<u>Acres 121 - part of</u>	<u>407 ac. unit</u>	<u>Elev. 672</u>	<u>County Jackson</u>	<u>9 5/8</u>			
						<u>8 5/8</u>	<u>2505</u>	<u>2505</u>	<u>400</u>
						<u>7</u>			
						<u>5 1/2</u>	<u>5580</u>	<u>700</u>	<u>600</u>
						<u>4 1/2</u>			
						<u>3</u>			
						<u>2</u>			
						<u>Liners Used</u>			

The surface of tract is owned in fee by Ruth French etal
Address Jackson Co. W. Va.

Mineral rights are owned by Ruth French etal
Address Jackson Co. W. Va.

Drilling Commenced Jan. 5-1976
Drilling Completed Jan. 24-1976

Initial open flow 10 M cu. ft. _____ bbls.
Final production 50 M cu. ft. per day _____ bbls.

Well open 4 hrs. before test 1500 RP.

Well treatment details:
shot from 3010 to 4080

Attach copy of cementing record.

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Devonian shale Depth 2785 - 4511

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
sand and shale			0	1642		
limestone			1642	1842		
shale			1842	2350		
sand			2350	2366		
Devonian shale			2366	4764		
limestone			4764	5616		
<p><u>Base ORSK is 4876 - PI</u> <u>TD is 5685 in Mc Kenzie</u> <u>PI log of 4876 - 5616</u> <u>logs: Dev. 5410-5624</u></p>						

5685
4876
809 ft.
exploratory
footage
show gas

(over)

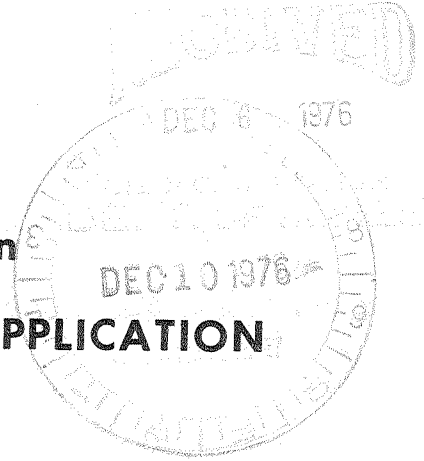
* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION



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

DATE November 30, 1976
Company Southern Triangle Oil Co.
Address Box 473 - Mt. Carmel, Il. 62863
Farm Ruth French Acres 121
Location (waters) Wolfe Creek
Well No. 1 Elevation 672
District Ripley County Jackson
Quadrangle 15' Kenna 7.5' Kenna

Surface Owner Ruth French etal
Address Ripley, West Virginia
Mineral Owner Ruth French etal
Address Ripley, W. Va.
Coal Owner none
Address _____
Coal Operator none
Address _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE

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 4-9-77.

Robert T. Jones
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Richard J. Morris
PR: 354-7259 ADDRESS Grantsville, W.Va.

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 1976 by Cabot Corp. made to Southern Triangle Oil Co. and recorded on the not recorded - farmout day of farmout 19 , in County, Book Page
 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.

Very truly yours, Southern Triangle Oil Co.
(Sign Name) [Signature]
Well Operator

Address of Well Operator

Petroleum Bldg
Street
Mt Carmel
City or Town
Illinois
State

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
West Virginia Geological and Economic Survey
P. O. Box 879
Morgantown, W. Va. 26505

*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.

JAC-1386

PERMIT NUMBER

47-035

~~WELL BOND~~ Drill

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

PROPOSED WORK ORDER TO DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME FWA _____ NAME H. Dec White Earl Stewart _____
 ADDRESS Wichita Falls, Texas _____ ADDRESS Box 473 - Mt. Carmel, Ill. 62863 _____
 TELEPHONE _____ TELEPHONE 618-262-4131 P.O. Box 106
 ESTIMATED DEPTH OF COMPLETED WELL: 5700 _____ ROTARY CABLE TOOLS 304-984-9434
 PROPOSED GEOLOGICAL FORMATION: Newburg _____
 TYPE OF WELL: OIL _____ GAS 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 13 3/8	200	200	10 surface
9 - 5/8			
8 - 5/8	2400	2400	100 sks
7			
5 1/2	56501	5650	125 sks
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 150 FEET _____ SALT WATER 1200 FEET _____
 APPROXIMATE COAL DEPTHS none _____
 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