

LATITUDE 39° 12' 30" (15') 39° 15'

LONGITUDE 80° 0' 40" 1.532 mi S.

Minimum Error of Closure ONE PART IN 200

Source of Elevation JUNCTION OF OLD WELL ROAD & BRUSHY FORK

ROAD 250' EAST OF LOCATION ELEV. = 882'

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.....

Signed: Mark C. Echard
Squares: N S E W

Company ROCKWELL PETROLEUM COMPANY
 Address P.O. BOX 86, SANDFORK, W.VA. 26430
 Farm O.C. & BLANCHE HAUGHT
S.C. HAUGHT LEASE
 Tract _____ Acres 264 Lease No. _____
 Well (Farm) No. 00E Serial No. _____
 Elevation (Spirit Level) 877' NW
 Quadrangle NEW MILTON 7.5'
 County DODDRIDGE District NEW MILTON
 Surveyor MARK C. ECHARD
 Surveyor's Registration No. 490
 File No. _____ Drawing No. _____
 Date OCTOBER 16, 1978 Scale 1" = 1000'

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

WELL LOCATION MAP
FILE NO. DOD-2302

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.

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

47-017



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

RECORDED

JAN - 5 1979

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD 9

Quadrangle New Milton 7.5'

Permit No. Dodd-2302 (47-017)

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

Company Rockwell Petroleum Company
Address P.O. Box 86, Sand Fork, WV 26430
Farm O. C. Haught Acres 264
Location (waters) Brushy Fork
Well No. One Elev. 877'
District New Milton County Doddridge
The surface of tract is owned in fee by _____
O. C. and Blanche T. Haught
Address Route 1, Salem, WV
Mineral rights are owned by O. C. & Blanche T. Haught Address Route 1, Salem, WV
Drilling Commenced November 6, 1978
Drilling Completed December 1, 1978
Initial open flow show cu. ft. _____ bbls.
Final production 776 M cu. ft. per day 0 bbls.
Well open 54 hrs. before test 1900 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"	515'	515'	190 sks
9 5/8			
8 5/8			
7	2025'	1400'	
5 1/2			
4 1/2		5322'	125 sks
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Fractured on December 15, 1978

<u>Elk - 60,000 lb. 20/40 sand</u>	<u>Benson-Riley - 60,000 lb. 20/40 sand</u>
<u>712 Bls water</u>	<u>708 Bls water</u>
<u>Injection rate 27 BPM at 2336 lb.</u>	<u>Inj. rate 22 BPM at 2800 lb.</u>
<u>2200 lb. breakdown</u>	<u>3000 lb. breakdown</u>
<u>Perfs-5223 - 5255 - 9 holes</u>	<u>Perfs - 4930 - 4 holes, 4475 - 4 holes</u>
Coal was encountered at <u>0</u> Feet _____ Inches	
Fresh water _____ Feet	Salt Water _____ Feet
Producing Sand <u>Benson and Elk Alexander</u>	Depth <u>4475 - 5255</u>

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface			0	110		
Red Rock			110	180		
Shale			180	250		
Red Rock			250	310		
Slate			310	450		
Red Rock			450	472		
Shale			472	690		
Red Rock			690	742		
Shale			742	910		
Red Rock			910	1010		
Shale			1010	1112		
Slate			1112	1320		
Red Rock			1320	1410		
Shale			1410	1620		
Sand			1620	1680		
Shale			1680	1715		
Sand			1715	1800		
Slate			1800	1921		
Lime			1921	1960		
Slate			1960	1970		
Lime			1970	2050		
Sandy Lime			2050	2140		
Shale			2140	2430		

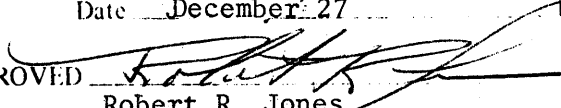
(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			2430	2450		
Shale			2450	2790		
Sand			2790	2810		
Shale			2810	2990		
Sand			2990	3000	Show gas	
Shale			3000	4445		
Sand			4445	4480	Show gas	
Shale			4480	4922		
Sand			4922	4934	Show gas	Benson
Shale			4934	5220		
Sand	Alexander		5220	5257	Show gas	
Shale			5257	5374		
TD			5374			

5374
~~2140~~
~~3234~~ Exp. Ft.

Date December 27 1978

APPROVED  Owner
 By Partner (Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

RECEIVED
OCT 18 1978
OIL & GAS DIVISION
DEPT. OF MINES

TO THE DEPARTMENT OF MINES,

Charleston, W. Va.

DATE October 17, 1978

Surface Owner O.C. & Blanche T. Haught

Company Rockwell Petroleum Company

Address Route 1, Salem, WV

Address P.O. Box 86, Sand Fork, WV 26430

Mineral Owner O.C. & Blanche T. Haught

Farm O.C. Haught Acres 264

Address Route 1, Salem, WV

Location (waters) Brushy Fork

Coal Owner None

Well No. One Elevation 877'

Address _____

District New Milton County Doddridge

Coal Operator None

Quadrangle New Milton 7.5'

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

INSPECTOR

for drilling. This permit shall expire if TO BE NOTIFIED

Paul Garrett

operations have not commenced by 2-19-79

ADDRESS

Clarksburg, W. Va.

Deputy Director - Oil & Gas Division

PHONE 622-3871

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 25 1977 by O.C. & Blanche T. Haught made to Rockwell Petroleum and recorded on the 10th day of January 1978, in Doddridge County, Book 368 Page 103

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

Very truly yours,

(Sign Name)

Well Operator

Address of Well Operator

P.O. Box 86
Street

Sand Fork
City or Town

West Virginia 26430
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

DODD-2302 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-5 and will carry out the specified requirements."

47-017

Signed by

**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 & Sons _____ NAME Robert R. Jones _____
 ADDRESS Smithville, WV _____ ADDRESS P.O. Box 86, Sand Fork, WV 26430 _____
 TELEPHONE 477-3333 _____ TELEPHONE 462-7389 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 5400' _____ ROTARY X _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Devonian _____
 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	600'	600'	To surface
9 - 5/8			
8 - 5/8			
7			
5 1/2			
4 1/2		5400'	110 sks Pozz
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 105 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