



Minimum Error of Closure ONE PART IN 200

Source of Elevation U.S.G.S. B.M. AT POINT PLEASANT CHURCH

ELEVATION = 1030'

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, SAND FORK, W.VA. 26430
 Farm S.L. GRAY LEASE, Mr. Howard Hintere
 Tract _____ Acres 148.50 Lease No. _____
 Well (Farm) No. TWO Serial No. _____
 Elevation (Spirit Level) 937' WC
 Quadrangle VADIS 7.5', 15'
 County DODDRIDGE District COVE
 Surveyor MARK C. ECHARD
 Surveyor's Registration No. 490
 File No. _____ Drawing No. _____
 Date AUGUST 7, 1978 Scale 1"=500'

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

WELL LOCATION MAP
 FILE NO. DODD-2287

+ 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



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Vadis

Permit No. Dodd-2287

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 S. L. Gray Acres 148.50
Location (waters) Branch of Sycamore Fork
Well No. Two Elev. 937'
District Cove County Doddridge
The surface of tract is owned in fee by _____
Howard Hinterer
Address New Milton, WV
Mineral rights are owned by Howard Hinterer
Address New Milton, WV
Drilling Commenced October 16, 1978
Drilling Completed October 20, 1978
Initial open flow 30,000 cu. ft. 9 bbls.
Final production 745 M cu. ft. per day 0 bbls.
Well open 5 hrs. before test 630 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	240	240	To surface
7			
5 1/2			
4 1/2		2425	160 sks Pozz
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Well fractured November 1, 1978	Perforations
40,000 lbs. 20/40 sand	1976 1 hole
Avg. injection rate 19.8 BPM at 2059 lb	2014 - 2022 8 holes
703 Bls water	2057 1 hole
500 gallon acid	

Coal was encountered at 0 Feet _____ Inches
Fresh water 138 Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injun Depth 1976 - 2057

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface			0	80		
Slate			80	160		
Red Rock			160	210		
Sandy Shale			210	222		
Red Rock			222	284		
Shale			284	381		
Red Rock			381	403		
Sand			403	410		
Shale			410	735		
Red Rock			735	784		
Shale			784	908		
Sand			908	944		
Shale			944	1184		
Red Rock			1184	1208		
Sand			1208	1224		
Red Rock			1224	1238		
Shale			1238	1410		
Sand			1410	1426		
Slate			1426	1454		
Shale			1454	1670		
Sand			1670	1720		
Shale			1720	1850		
Lime			1850	1880		
Slate			1880	1890		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet (Bottom Feet	Oil, Gas or Water	* Remarks
Sand			1890	1915	Show of Gas	
Lime			1915	1970		
Sand			1970	2030	Show of Gas	
Lime			2030	2070		
Sandy Shale			2070	2230		
Shale			2230	2325		
Sand			2325	2350		
Shale	<i>Gorden</i>		2350	2440		
Total Depth			2440			

Date November 14 19 78

APPROVED  Owner

By Robert R. Jones

Partner

(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

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OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE August 11, 1978

Surface Owner Mr. Howard Hinterer
Address New Milton, WV
Mineral Owner Howard Hinterer & others
Address New Milton, WV
Coal Owner -----
Address -----
Coal Operator -----
Address -----

Company Rockwell Petroleum Company
Address P.O. Box 86, Sand Fork, WV 26430
Farm S.L. Gray Acres 148.50
Location (waters) Branch of Sycamore Fork
Well No. Two Elevation 937'
District Cove County Doddridge
Quadrangle Vadis

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 12-31-78.

INSPECTOR
TO BE NOTIFIED Paul Garrett
ADDRESS Clarksburg, W. Va.
PHONE 622-3871

[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 October 5 1977 by Howard Hinterer & others made to Rockwell Petroleum and recorded on the 25th day of October 1977 in Doddridge County, Book 103 Page 97

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) [Signature]
Rockwell Petroleum
Box 86

Street
Sand Fork,
City or Town
West Virginia 26430
State

Address
of
Well Operator

*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-2287 PERMIT NUMBER

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

47-017

Signed by [Signature]

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: 2075' 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			
18 - 10			
16 - 5/8			
14 - 5/8	210'	210'	To surface
12			
10 1/2			
8 1/2		2150'	110 sks Pozz
6			Perf. Top
4			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 90 FEET SALT WATER _____ 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