

**SURFACE & ROYALTY OWNER(S)**  
 ROY B. SCHMIDT, ET AL  
 NEW MILTON, W. VA.

**DESIGNATED AGENT:**  
 ROBERT R. JONES  
 P.O. BOX 86  
 SAND FORK, W. VA. 26430

Minimum Error of Closure ONE PART IN 300  
 Source of Elevation USGS SPOT ELEVATION IN CENTER OF W. VA. SEC. ROAD  
29 AT DRIVEWAY TO R. SCHMIDT HOUSE S 66° E 95.0' FROM LOC. ELEV. = 847'

Fracture   
 New Location  GAS-DRILL DEVONIAN SHALE-TR EST. DEPTH - 9300'  
 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: Mark C. Echard  
 Squares: N S E W

Map No. \_\_\_\_\_

Company ROCKWELL PETROLEUM COMPANY  
 Address P.O. BOX 86, SAND FORK, W. VA. 26430  
 Farm ROY B. SCHMIDT, et al  
 Tract \_\_\_\_\_ Acres 110 Lease No. \_\_\_\_\_  
 Well (Farm) No. TWO Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 846' WC  
 Quadrangle VADIS 7.5', 15'  
 County DODDRIDGE District COYE  
 SURVEYOR/  
 Engineer MARK C. ECHARD  
 SURVEYOR'S/  
 Engineer's Registration No. 490 LLS  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date MARCH 24, 1979 Scale 1" = 500'

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

**WELL LOCATION MAP**  
 FILE NO. 47-017-2372

+ 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.

APR 27 1979

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

Date August 28, 1979

FORM IV-35  
(Obverse)

Operator's  
Well No. Schmidt #2

[08-78]

WELL OPERATOR'S REPORT 4  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

API Well No. 47 - 017 - 2372  
State County Permit

WELL TYPE: Oil  / Gas  / Liquid Injection  / Waste Disposal   
(If "Gas", Production  / Underground storage  / Deep  / Shallow )

LOCATION: Elevation: 846' Watershed: Sand Fork  
District: Cove County: Doddridge Quadrangle: Vadis

WELL OPERATOR Rockwell Petroleum Company DESIGNATED AGENT Robert R. Jones  
Address P O Box 86 Address P O Box 86  
Sand Fork, WV 26430 Sand Fork, WV 26430

PERMITTED WORK: Drill  / Convert  / Drill deeper  / Redrill  / Fracture or stimulate   
Plug off old formation  / Perforate new formation   
Other physical change in well (specify) \_\_\_\_\_

**RECEIVED**  
OCT 15 1979

PERMIT ISSUED ON April 4, 19 79 OIL & GAS INSPECTOR FOR DEPT. OF MINES  
Name Paul Garrett  
Address Clarksburg, WV  
622-3871

LOGICAL TARGET FORMATION: Elk Depth 5190 feet  
Depth of completed well, 5137 feet Rotary  / Cable Tools   
Water strata depth: Fresh, 114 feet; salt, \_\_\_\_\_ feet.  
Coal seam depths: None Is coal being mined in the area? No  
Work was commenced August 22, 19 79, and completed August 27, 19 79

LOGGING AND TUBING PROGRAM

LOGGING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Drill pipe								Kinds
Production tubing	8 5/8					1124	1124	To surface
Intermediate tubing								Sizes
Production tubing	4 1/2						5074	150 sks
Production tubing								Perforations:
								Top Bottom

PRODUCTION FLOW DATA

Producing formation Benson Pay zone depth 4717 feet  
Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d  
Final open flow, \_\_\_\_\_ Mcf/d Final open flow, \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests, \_\_\_\_\_ hours  
Static rock pressure, \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

[If applicable due to multiple completion--]

Second producing formation Elk Pay zone depth 5038 feet  
Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, 0 Bbl/d  
Final open flow, 1420 Mcf/d Final open flow, 0 Bbl/d  
Time of open flow between initial and final tests, 5 hours  
Static rock pressure, 1805 psig (surface measurement) after 48 hours shut in

OCT 25 1979

08-76]

TAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Fractured September 5, 1979

Elk - 20,000 lb. 80/100 sand  
40,000 lb. 20/40 sand  
688 bbls. water  
23 BPM at 1746 lb.  
2100 lb. breakdown

Benson - 20,000 lb. 80/100 sand  
40,000 lb. 20/40 sand  
685 bbls. water  
16.6 BPM at 1325 lb.  
2300 lb. breakdown

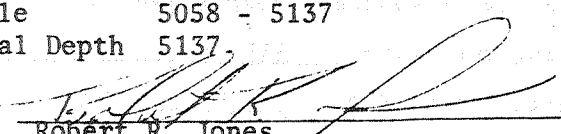
Perforations - 4985 - 5038, 7 holes

Perforations - 4714 - 4717, 7 holes

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Surface			0	100	
Red Rock			100	114	
Sand			114	117	Water
Shale			117	224	
Red Rock			224	270	
Shale			270	540	
Red Rock			540	564	
Shale			546	710	
Sand			710	742	
Shale			742	807	
Red Rock			807	829	
Shale			829	942	
Sand			942	961	
Shale			961	1081	
Sandy Shale			1081	1141	
Red Rock			1141	1162	
Sand			1162	1203	
Shale			1203	1420	
Sandy Shale			1420	1491	
Shale			1491	1702	
Sand			1702	1731	
Shale			1731	1780	
Sandy Lime			1780	1810	
Slate			1810	1838	
Sandy Lime			1838	1864	
Lime			1864	1890	
White Lime			1890	1970-	
Sandy Lime			1970	1990-	Show of gas & oil
Lime			1990	1995-	
Shale			1995	2040	
Sandy Shale			2040	2122	
Shale			2122	2242	
Sand			2242	2266	
Shale			2266	2582	
Sandy Shale			2582	2595	
Shale			2595	2794	
Sandy Shale			2794	2800	
Shale			2800	3140	
Sandy Shale			3140	3185	Show of gas
Shale			3185	3360	
Sandy Shale			3360	3370	
Shale			3370	3755	
Sandy Shale			3755	3766	
Shale			3766	3795	
Sandy Shale			3795	3813	
Shale			3813	4709	
Sandy Shale			- 4709	4722	Show of gas
Shale			4722	4980	
Elk Sandy Shale			4980	5058	Show of gas
Shale			5058	5137	
Total Depth			5137		

NOTE: Regulation 1.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

By   
Robert R. Jones  
Partner

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. Schmidt #2  
API Well No. 47 - 017 - 2372  
State County Permi

**COPY**

WELL TYPE: Oil  Gas   
(If "Gas", Production  / Underground storage  / Deep  / Shallow )

LOCATION: Elevation: 846' Watershed: Sand Fork  
District: Cove County: Doddridge Quadrangle: Vadis

WELL OPERATOR Rockwell Petroleum Company  
Address P O Box 86  
Sand Fork, WV 26430

DESIGNATED AGENT Robert R. Jones  
Address P O Box 86  
Sand Fork, WV 26430

OIL & GAS ROYALTY OWNER Roy B. Schmidt, et al  
Address New Milton, WV

COAL OPERATOR \_\_\_\_\_  
Address \_\_\_\_\_

Acreage 110

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Roy B. Schmidt, et al  
Address New Milton, WV

Name \_\_\_\_\_  
Address \_\_\_\_\_

Acreage 110

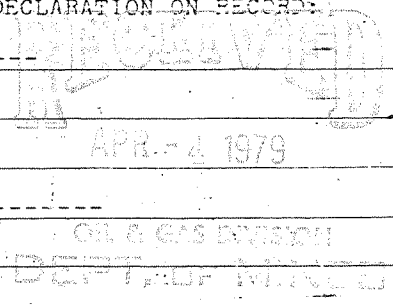
Name \_\_\_\_\_

FIELD SALE (IF MADE) TO:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

Address \_\_\_\_\_

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Paul Garrett  
Address Clarksburg, WV  
Phone: 622-3871

COAL LESSEE WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_



The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed  / lease  / other contract  / dated December 6, 1978, to the undersigned well operator from Glenn G. Schmidt

[If said deed, lease, or other contract has been recorded:]  
Recorded on January 3, 1979 in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book 106 at page 639. A permit is requested as follows:

PROPOSED WORK: Drill  / Drill deeper  / Redrill  / Fracture or stimulate  /  
Plug off old formation  / Perforate new formation  /  
Other physical change in well (specify) \_\_\_\_\_

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

BLANKET BOND

Rockwell Petroleum Company  
Well Operator  
By [Signature]  
Its Partner

[08-78]

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Union Drilling, Inc.  
Address Drawer 40  
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Elk

Estimated depth of completed well, 5190 feet Rotary X / Cable tools      /

Approximate water strata depths: Fresh, 195 feet; salt,      feet.

Approximate coal seam depths:      **Is coal being mined in the area?** Yes      / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	8 5/8		20	X		1058	1058	To surface	
Coal									Sizes
Intermediate									
Production	4 1/2		9.5	X			5190	160 sks	Depths set
Tubing									
Liners									Perforations: Top      Bottom

**NOTE:** Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

**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 12-05-79.

*[Signature]*  
Deputy Director, Office of Gas Division

The following work was completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

**W A I V E R**

The undersigned coal operator      / owner      / lessee      / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date:     , 19     

By       
Its