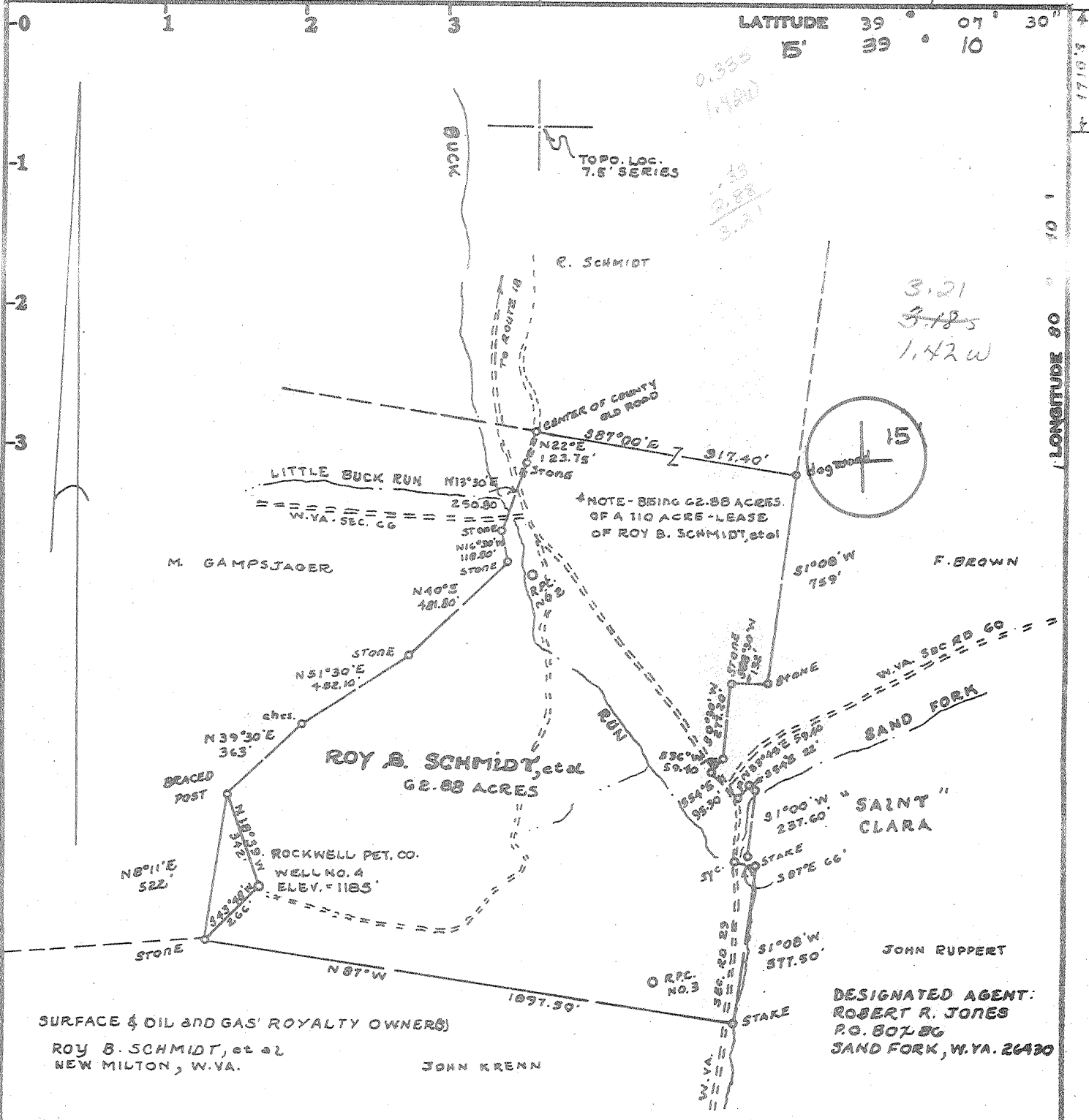


7470' W

7/16/79



Minimum Error of Closure ONE PART IN 300

Source of Elevation USGS SPOT ELEV. IN CENTER OF W.VA. SEC. ROAD

29 AT DRIVE WAY TO R. SCHMIDT HOUSE 1750' EAST OF LOC. ELEV. = 847

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..... GAS-DRILL-SHALLOW
- Drill Deeper..... DEVONIAN SHALE-T
- Abandonment..... EST. DEPTH-3500'

Signed: Mark C. Echard

Squares: N S E W

Company ROCKWELL PETROLEUM COMPANY
 Address PO. BOX 86, SAND FORK, WVA. 26430
 Farm ROY B. SCHMIDT, et al
 Tract _____ Acres 110 Lease No. _____
 Well (Farm) No. FOUR Serial No. _____
 Elevation (Spirit Level) 1185'
 Quadrangle YADIS 7.5, 15'
 County DODDRIDGE District COVE
 Surveyor MARK C. ECHARD
 Surveyor's Registration No. 490
 File No. _____ Drawing No. _____
 Date JULY 2, 1979 Scale 1" = 500'

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

WELL LOCATION MAP

FILE NO. 47-017-2454

+ 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.

AUG 7 1979

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

Date August 22, 1979

FORM IV-35
(Obverse)

Operator's
Well No. Schmidt #4

[08-78]

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

API Well No. 47 - 017 - 2454
State County Ferris

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

LOCATION: Elevation: 1185' Watershed: Buck Run
District: Cove County: Doddridge Quadrangle: Vadis 7.5

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
Plug off old formation / Perforate new formation
Other physical change in well (specify) _____
Fracture or stimulate
SEP 17 1979

PERMIT ISSUED ON July 16, 1979
(IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
_____, 19____)

OIL & GAS DIVISION
DEPT. OF MINES
Name Paul Garrett
Address Clarksburg, WV 26301
622-3871

GEOLOGICAL TARGET FORMATION: Elk Depth 5500 feet
Depth of completed well, 5432 feet Rotary / Cable Tools
Water strata depth: Fresh, _____ feet; salt, _____ feet.
Coal seam depths: None Is coal being mined in the area? No
Work was commenced August 9, 1979, and completed August 16, 1979

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 | | |
| Conductor | | | | | | | | Kinds |
| Fresh water | 8 5/8 | | | | | 1206 | 1206 | To Surface |
| Coal | | | | | | | | Sizes |
| Intermediate | | | | | | | | Depth set |
| Production | 4 1/2 | | | | | | 5414 | 590 sks |
| Tubing | | | | | | | | Perforations: |
| Liners | | | | | | | | Top Bottom |

OPEN FLOW DATA

Producing formation Benson Pay zone depth 5053.5 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 ALEX. Pay zone depth 5376 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, 0 Bbl/d
Final open flow, _____ Mcf/d Final open flow, 0 Bbl/d
COMBINED Final open flow, 810,000 Mcf/d
Time of open flow between initial and final tests, 7 hours **OCT 9 1979**
Static rock pressure, 1820 psig (surface measurement) after 36 hours shut in

[08-78]

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

Fractured August 27, 1979

Eik - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
637 bls. water
25.7 BPM at 1548 lb.
2000 lb. breakdown

Benson - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
700 bls. water
17.6 BPM at 1451 lb.
2500 lb. breakdown

Perforations - 5322 - 5376, 7 holes

Perforations - 5050.5 - 5053.5, 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 | |
| Shale | | | 100 | 128 | |
| Sand | | | 128 | 133 | Water |
| Shale | | | 133 | 226 | |
| Red Rock | | | 226 | 238 | |
| Shale | | | 238 | 412 | |
| Red Rock | | | 412 | 461 | |
| Sand | | | 461 | 473 | |
| Shale | | | 473 | 622 | |
| Sand | | | 622 | 641 | |
| Red Rock | | | 641 | 701 | |
| Shale | | | 701 | 1020 | |
| Red Rock | | | 1020 | 1091 | |
| Shale | | | 1091 | 1326 | |
| Sand | | | 1326 | 1341 | |
| Shale | | | 1341 | 1480 | |
| Sand | | | 1480 | 1521 | |
| Shale | | | 1521 | 1721 | |
| Sand | | | 1721 | 1789 | |
| Shale | | | 1789 | 2000 | |
| Sand | | | 2000 | 2050 | |
| Shale | | | 2050 | 2120 | |
| Lime | | | 2120 | 2140 | |
| Sand | | | 2140 | 2187 | Show gas |
| Lime | | | 2187 | 2230 | |
| Big Injun | | | 2230 | 2330 | |
| Shale | | | 2330 | 2350 | |
| Sandy Shale | | | 2350 | 2515 | Show gas |
| Shale | | | 2515 | 2580 | |
| Sand | | | 2580 | 2606 | |
| Shale | | | 2606 | 3108 | |
| Sandy Shale | | | 3108 | 3146 | |
| Shale | | | 3146 | 4080 | |
| Sandy Shale | | | 4080 | 4200 | Show gas |
| Shale | | | 4200 | 4390 | |
| Sandy Shale | | | 4390 | 4425 | |
| Shale | | | 4425 | 5044 | |
| Sandy Shale | | | 5044 | 5060 | Show gas |
| Shale | | | 5060 | 5160 | |
| Sandy Shale | | | 5160 | 5366 | Show gas |
| Shale | | | 5366 | 5432 | |
| Total Depth | | | 5432 | | |

By 
Robert K. Jones
Its Partner

Rockwell Petroleum Company
Well Operator

NOTE: Regulation 2.02(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."

[08-78]

COPY

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

Date: July 11, 1979

OIL AND GAS WELL PERMIT APPLICATION

Operator's
Well No. Schmidt #4

API Well No. 47 - 017 - 2454
State County Permit

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

LOCATION: Elevation: 1185 Watershed: Buck Run
District: Cove County: Doddridge Quadrangle: Vadis 7.5

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
SURFACE OWNER Roy B. Schmidt, et al
Address New Milton, WV
ACREAGE 110

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name -----
Address -----
Name -----
Address -----

DEED SALE (IF MADE) TO:
Name -----
Address -----

COAL LESSEE WITH DECLARATION ON RECORD:
Name -----
Address -----

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address Clarksburg, WV 26301
622-3781

OIL & GAS DIVISION
DEPT. OF MINES

JUL 16 1979

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease X / other contract / dated December 6, 1979, 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 X / 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 action 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 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
PHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
5 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

Rockwell Petroleum Company
Well Operator
By Robert R. Jones
Its Robert R. Jones 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, 5500 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 140 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 | | | | | 1325 | 1325 | To surface | |
| Coal | | | | | | | | | Sizes |
| Intermediate | | | | | | | | | |
| Production | 4 1/2 | | | | | | 5475 | 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 . This permit shall expire if operations have not commenced by .

[Signature]
Deputy Director - Oil & Gas Division

Following waiver must be 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