

Minimum Error of Closure 0.02 PART IN 300

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

29' AT DRIVEWAY TO R. SCHMIDT HOUSE 750' S NORTH FROM LOC. ELEV. = 847

Fracture New Location Drill Deeper Abandonment

GAS - DRILL DEVONIAN SHALE - TF 857' DEPTH - 5450'

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 E 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. THREE Serial No. _____

Elevation (Spirit Level) 988'

Quadrangle VA DLS 7.5' 15'

County RODDRIDGE District COVE

Surveyor/Engineer MARK C. ECHARD

Surveyor's/Engineer's Registration No. 490 LLS

File No. _____ Drawing No. _____

Date MAY 3, 1979 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. 47-017-2455

+ Denotes location of well on United States Topographic Maps, scale 1 to 25,000, latitude and longitude lines being represented by border lines as shown.

AUG 7 1979

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

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

Date August 22, 1979

FORM IV-35
(Obverse)

Operator's
Well No. Schmidt #3

[08-78]

WELL OPERATOR'S REPORT 17
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

API Well No. 57-017-2455
State County Ferris

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal
(If "Gas", Production / Underground storage / Deep / Shallow
LOCATION: Elevation: 988' Watershed: Buck Run
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 / Re-drill / Fracture or stimulate
Plug off old formation / Perforate new formation
Other physical change in well (specify) _____

PERMIT ISSUED ON July 16, 1979 OIL & GAS INSPECTOR FOR THIS WORK:
(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Paul Garrett
Address Clarksburg, WV 26301
622-3871

GEOLOGICAL TARGET FORMATION: Elk Depth 5500 feet
Depth of completed well, 5311 feet Rotary / Cable Tools
Water strata depth: Fresh, 126 feet; salt, _____ feet.
Coal seam depths: None Is coal being mined in the area? No
Work was commenced August 4, 1979, and completed August 8, 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 | | | | | 1215 | 1215 | 330 sks To Surface |
| Coal | | | | | | | | Sizes |
| Intermediate | | | | | | | | |
| Production | 4 1/2 | | | | | | 5242 | 150 sks Depth set |
| Tubing | | | | | | | | |
| Liners | | | | | | | | Perforations: Top Bottom |

SEP 17 1979

OPEN FLOW DATA

Producing formation Benson DEPT. OF MINE & OIL 4852 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
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 5179 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, 0 Bbl/d
Final open flow, 510,000 Mcf/d Final open flow, 0 Bbl/d
Time of open flow between initial and final tests, 3 hours OCT 9 1979
Static rock pressure, 1780 psig (surface measurement) after 48 hours shut in

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

Fractured August 21, 1979

Elk - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
1900 lb. breakdown
638 bls. water
22.8 BPM at 1950 lb.


Benson - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
2200 lb. breakdown
648 bls. water
17 BPM at 1750 lb.

Perforations - 5179 - 5124, 8 holes

Perforations - 4849 - 4852, 7 holes

WELL LOG

| FORMATION | Color | Hard or Soft | 17 | | Remarks Including indication of all fresh and salt water, coal, oil and gas |
|---------------|-------|--------------|----------|-------------|--|
| | | | Top Feet | Bottom Feet | |
| Surface | | | 0 | 126 | |
| Sand | | | 126 | 131 | Water |
| Slate | | | 131 | 220 | |
| Red Rock | | | 220 | 228 | |
| Slate | | | 228 | 352 | |
| Red Rock | | | 352 | 361 | |
| Shale | | | 361 | 368 | |
| Red Rock | | | 368 | 411 | |
| Shale | | | 411 | 741 | |
| Sand | | | 741 | 781 | |
| Shale | | | 781 | 1009 | |
| Sand | | | 1009 | 1021 | |
| Red Rock | | | 1021 | 1029 | |
| Shale | | | 1029 | 1491 | |
| Sand | | | 1491 | 1528 | |
| Shale | | | 1528 | 1745 | |
| Sand | | | 1745 | 1780 | |
| Shale | | | 1780 | 1890 | |
| Sand | | | 1890 | 1900 | |
| Slate & Shale | | | 1900 | 1914 | |
| Lime | | | 1914 | 1950 | |
| Sandy Lime | | | 1950 | 2006 | |
| Lime | | | 2006 | 2140 | |
| Shale | | | 2140 | 2190 | |
| Sandy Shale | | | 2190 | 2290 | |
| Shale | | | 2290 | 2385 | |
| Sand | | | 2385 | 2408 | |
| Shale | | | 2408 | 2730 | |
| Sandy Shale | | | 2730 | 2762 | |
| Shale | | | 2762 | 2930 | |
| Sand | | | 2930 | 2956 | |
| Shale | | | 2956 | 3285 | |
| Sandy Shale | | | 3285 | 3340 | |
| Shale | | | 3340 | 3940 | |
| Sandy Shale | | | 3940 | 3980 | |
| Shale | | | 3980 | 4226 | |
| Sandy Shale | | | 4226 | 4310 | Show gas |
| Shale | | | 4310 | 4380 | |
| Sandy Shale | | | 4380 | 4430 | Show gas |
| Shale | | | 4430 | 4846 | |
| Sandy Shale | | | 4846 | 4862 | Show gas |
| Shale | | | 4862 | 4960 | |
| Sandy Shale | ALEX. | 4960 - 5220 | Show gas | | |
| Shale | | 5220 - 5313 | | | |
| Total Depth | | 5313 | | | |

By 
Robert R. 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

OIL AND GAS WELL PERMIT APPLICATION

Operator's
Well No. Schmidt #3

API Well No. 47 - 017 - 2455
State County Permit

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

LOCATION: Elevation: 988' Watershed: Buck Run
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 None
Address _____

ACREAGE 110

COAL OWNER(S) WITH DECLARATION ON RECORD:

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

Name None
Address _____

ACREAGE 110

Name None
Address _____

FIELD SALE (IF MADE) TO:
Name _____
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address Clarksburg, WV 26301
622-3871

Name None
Address _____

RECEIVED
JUL 16 1979

OIL & GAS DIVISION
DEPT. OF MINES

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, 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 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 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
GEOLOGICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

Rockwell Petroleum Company
Well Operator
By Robert R. Jones
Its Partner

3-78]

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 FORMATION, Elk

Estimated depth of completed well, 5500 feet Rotary / Cable tools /
Approximate water strata depths: Fresh, 120 feet; salt, feet.
Approximate coal seam depths: Is coal being mined in the area? Yes / No /

CASING AND DRILLING PROGRAM

| KIND OR TUBING TYPE | SPECIFICATIONS | | | | FOOTAGE INTERVALS | | CEMENT FILL-UP OR SACKS (Cubic feet) | PACKERS |
|---------------------|----------------|---------------------|-----|------|-------------------|--------------|--------------------------------------|---------------|
| | Size | Weight Grade per ft | New | Used | For drilling | Left in well | | |
| Conductor | | | | | | | | Kinds |
| Fresh water | 8 5/8 | | | | 1225' | 1225' | To surface | |
| Coal | | | | | | | | Sizes |
| Intermediate | | | | | | | | |
| Production | 4 1/2 | | | | | 5050 | 150 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 7i, (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 § 22-4-2 and Regulation 43, (iv) unless previously paid on the site well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-3a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-1 shall not be required for fracturing or stimulating a well. Where fracturing or stimulating is to be part of the work to which a permit is sought, it is noted as such on the permit. 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 3-17-80.

Robert H. [Signature]
Deputy Director - Oil & Gas Division

The 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.

, 19

By

Its