

Minimum Error of Closure ODE PART IN 200

Source of Elevation TOP OF KDOB NORTH OF LOCATION 800'

ELEVATION = 1173

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

Map No. _____

Company ROCKWELL PETROLEUM COMPANY
 Address P.O. BOX 86, SAND FORK, W.VA. 26430
 Farm GLENN G. SCHMIDT, ETAL
 Tract _____ Acres 110 Lease No. _____
 Well (Farm) No. ODE Serial No. _____
 Elevation (Spirit Level) 1173 WC
 Quadrangle NEW MILTON 15' / 7.5'
 County DODDRIDGE District COVE
 Surveyor MARK C. ECHARD
 Surveyor's Registration No. 490
 File No. _____ Drawing No. _____
 Date DECEMBER 9, 1978 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. 47-017-2331

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

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

Fractured January 26, 1979

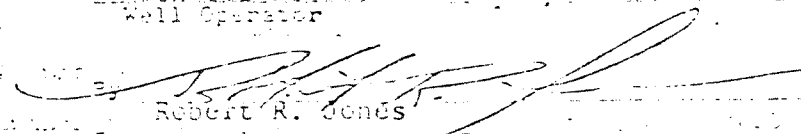
| | |
|---------------------------------------|-------------------------------------|
| Slk - 20,000 lb. 20/40 sand | Benson - 20,000 lb. 80/100 sand. |
| 10,000 lb. 80/100 sand | 36,000 lb. 20/40 sand |
| 402 bls water | 641 bls water |
| injection rate - 18.5 BPM at 1600 lb. | injection rate - 21 BPM at 1900 lb. |
| 2500 lb. breakdown | 2000 lb. breakdown |

| | |
|--|---|
| Perforations - 5250.5, 5251, 5251.5, 5252, 5252.5, 5253, 1 hole each | 4979.5, 4980, 4980.5, 4981.5, 5982, 4982.5 1 hole each |
|--|---|

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 | 90 | |
| Shale | | | 90 | 140 | |
| Sandy Shale | | | 140 | 144 | Water |
| Shale | | | 144 | 270 | |
| Red Rock | | | 270 | 304 | |
| Shale | | | 304 | 443 | |
| Red Rock | | | 443 | 502 | |
| Shale | | | 502 | 844 | |
| Sandy Shale | | | 844 | 868 | |
| Shale | | | 868 | 1142 | |
| Red Rock | | | 1142 | 1183 | |
| Shale | | | 1183 | 1425 | |
| Sand | | | 1425 | 1445 | |
| Shale | | | 1445 | 1860 | |
| Sand | | | 1860 | 1910 | |
| Shale | | | 1910 | 2065 | |
| Sand | | | 2065 | 2125 | Show gas |
| Line | | | 2125 | 2150 | |
| Big Injun | | | 2150 | 2250 | 2170 show gas |
| Sandy Shale | | | 2250 | 2590 | |
| Shale | | | 2590 | 2806 | |
| Sand | | | 2806 | 2826 | |
| Shale | | | 2826 | 2830 | |
| Sand | | | 2830 | 2836 | Show gas |
| Shale | | | 2836 | 3055 | |
| Sand | | | 3055 | 3064 | Show gas |
| Shale | | | 3064 | 3420 | |
| Sandy Shale | | | 3420 | 3450 | |
| Shale | | | 3450 | 4210 | |
| Sandy Shale | | | 4210 | 4250 | Show gas |
| Shale | | | 4250 | 4315 | |
| Sandy Shale | | | 4315 | 4355 | Show gas |
| Shale | | | 4355 | 4542 | |
| Sandy Shale | | | 4542 | 4555 | Show gas |
| Shale | | | 4555 | 4972 | |
| Sand | | | 4972 | 4992 | Show gas |
| Shale | | | 4992 | 5330 | |
| Sandy Shale | | | 5330 | 5320 | |
| Shale | | | 5320 | 5488 | |
| Total Depth | | | 5488 | | |

Rockwell Petroleum Company,
Well Operator


Robert R. Jones

Its _____ Partner

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."

FORM IV-35
(Obverse)
[08-78]

COPY

WELL OPERATOR'S REPORT 12 OF

Operator's Well No. One
API Well No. 47-017-
State County 017-2331

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1173' Watershed: Big Bear Run
District: Cove County: Doddridge Quadrangle: New Milton 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 / Fracture or stimulate
Plug off old formation / Perforate new formation /
Other physical change in well (specify) _____

PERMIT ISSUED ON January 5, 1979 OIL & GAS INSPECTOR FOR THIS WORK:
Name Paul Garrett
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED Address Clarksburg, WV

PHYSICAL TARGET FORMATION: Devonian Shale Depth 5550 feet
Depth of completed well, 5488 feet Rotary / Cable Tools _____
Water strata depth: Fresh, 144 feet; salt, _____ feet.
Coal seam depths: _____ Is coal being mined in the area? No
Work was commenced January 10, 1979, and completed January 15, 1979

LOGGING AND TUBING PROGRAM

| LOGGING OR TUBING TYPE | SPECIFICATIONS | | | | FOOTAGE INTERVALS | | CEMENT FILL-UP OF SPACES (Cubic Feet) | PACKERS |
|------------------------|----------------|-------|--------------|-------------------|-------------------|--------------|---------------------------------------|---------------|
| | Size | Grade | Weight lb/ft | Used for Drilling | Used for Drilling | Left in well | | |
| Motor | | | | | | | | Kinds |
| Production | 8 5/8 | | 20 lb | X | 1347 | 1347 | 250 sls | Sizes |
| Perforated | | | | | | | | Depths set |
| Isolation | 4 1/2 | | 9.5 | X | | 5377 | 200 sls | Perforations: |
| Other | | | | | | | | Top |

LOGGING DATA

Producing formation Pik Pay Zone Depth 5280.5 - 5483
Gas: Initial open flow, show Mcf/d Oil: Initial open flow, 0 Bbl/d
Final open flow, Not taken 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 Benson Pay Zone Depth 4979.5 - 4982
Gas: Initial open flow, show Mcf/d Oil: Initial open flow, 0 Bbl/d
Final open flow, 3280 Mcf/d Final open flow, 0 Bbl/d
Time of open flow between initial and final tests, 7 hours
Static rock pressure, 1904 psig (surface measurement) after 48 hours shut in

MAR 23 1981



RECEIVED

JAN - 5 1978

COPY

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, GAS DIVISION

DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE December 11, 1978

Surface Owner George Schmidt
Address Route 2, Roanoke, WV
Mineral Owner J. H. Schmidt, Heirs
Address Route 2, Roanoke, WV
Coal Owner Glenn Schmidt
Address Route 2, Roanoke, WV
Coal Operator None
Address _____

Company Rockwell Petroleum Company
Address P. O. Box 86, Sand Fork, WV 26430
Farm Glenn G. Schmidt Acres 110
Location (waters) Rig Bear Run
Well No. One Elevation 1173'
District Cove County Doddridge
Quadrangle New Milton 7.5'

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 9-8-79.

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

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 December 6 1978 by Glenn G. Schmidt made to Rockwell Petroleum Co. and recorded on the _____ day of _____ 19____, in _____ County, Book _____ Page _____
X 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 December 15, day 1978 before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours,
(Sign Name)
Well Operator

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

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

47-017-2331 PERMIT NUMBER

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

Signed by
Robert R. Jones

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 Clint Hurt Associates NAME Robert R. Jones
ADDRESS Charleston, WV ADDRESS P.O. Box 86, Sand Fork, WV 26430
TELEPHONE 344-2401 TELEPHONE 462-7389
ESTIMATED DEPTH OF COMPLETED WELL: 5550 ROTARY X CABLE TOOLS
PROPOSED GEOLOGICAL FORMATION: Devonian Shale
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 | | | |
| 9 - 5/8 | | | |
| 8 - 5/8 | 850' | 850' | To surface |
| 7 | | | |
| 5 1/2 | | | |
| 4 1/2 | | 5550' | |
| 3 | | | Perf. Top |
| 2 | | | Perf. Bottom |
| Liners | | | Perf. Top |
| | | | Perf. Bottom |

APPROXIMATE FRESH WATER DEPTHS 140 FEET SALT WATER FEET
APPROXIMATE COAL DEPTHS 480'
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.

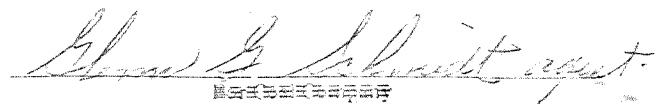
OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

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.


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Owner
Official Title