

OIL & GAS ROYALTY OWNER(S)
EMMA DROPPLEMAN
131 WEST CH
WESTON, W.VA. 26452

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 U.S.G.S. SPOT ELEVATION NORTH OF LOCATION 900' FORKS/ ATJUNCTION OF TWO ROADS ELEVATION = 879'

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 DEVONIAN SHALE EST. DEPTH - 5300'
- Drill Deeper
- Abandonment

Signed: Mark C. Echard
Squares: N S E W

Map No. _____

WELL OPERATOR/
Company ROCKWELL PETROLEUM COMPANY
Address P.O. BOX 86, SAND FORK, W.VA. 26430
Farm HENRY & ELLA DROPPLEMAN
Tract _____ Acres 104 Lease No. _____
Well (Farm) No. J-624 Serial No. _____
Elevation (Spirit Level) 876' WC
Quadrangle NEW MILTON 7.5', VADIS 15'
County DODDRIDGE District COVE
Surveyor MARK C. ECHARD
Surveyor's Registration No. 490
Date MARCH 17, 1979 Scale 1" = 500'

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

WELL LOCATION MAP
FILE NO. 47-017-2370

+ 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 April 24, 1979

FORM IV-35
(Obverse)

Operator's
Well No. Droppleman #1-624

[08-78]

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

API Well No. 47 - 017 - 2570
State West Virginia County Putnam

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal /
(If "Gas", Production / Underground storage / Deep / Shallow
LOCATION: Elevation: 876' Watershed: Sand Fork Creek
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 April 2, 19 79

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 OIL & GAS DIVISION
Address Clarksburg, WV. DEPT. OF MINE
622-3871

GEOLOGICAL TARGET FORMATION: Elk Depth 5150 feet
Depth of completed well, 5227 feet Rotary / Cable Tools
Water strata depth: Fresh, _____ feet; salt, _____ feet.
Coal seam depths: ----- Is coal being mined in the area? No
Work was commenced April 5, 19 79, and completed April 10, 19 79

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			1129'	1129'		
Coal									Sizes
Intermediate									
Production	4 1/2		9.5				5189		Depths set
Tubing									
Liners									Perforations:
									Top Bottom

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4784.5 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 5108.5 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, 0 bbl/d
Final open flow, 1,100 Mcf/d Final open flow, 0 bbl/d
Time of open flow between initial and final tests, 6 hours
Static rock pressure, 1760 psig (surface measurement) after 47 hours shut in

MAY 22 1979

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

Fractured April 23, 1979

Elk - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
601 barrels water
injection rate - 17 BPM at 2475 lb.
2200 lb. breakdown

Benson - 18,000 lb. 80/100 sand
40,000 lb. 20/40 sand
577 barrels water
injection rate - 20 BPM at 2150 lb.
2300 lb. breakdown

Perforations - 4903.5, 5091.5, 5092, 5092.5
5108, 5108.5


Perforations - 4781.5, 4782, 4782.5,
4783, 4783.5 4784, 4784.5

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	REMARKS Including indications of oil, gas, and salt water, coal, etc. and gas
Surface			0	100	
Shale			100	110	
Sand			110	114	Water
Shale			114	642	
Red Rock			642	678	
Shale			678	890	
Red Rock			890	910	
Shale			910	1002	
Sand			1002	1021	
Shale			1021	1308	
Sand			1308	1396	
Shale			1396	1490	
Sand			1490	1533	
Shale			1533	1548	
Sand			1548	1560	
Shale			1560	1605	
Sand			1605	1622	
Sandy Lime			1622	1654	
Sand			1654	1700	
Sandy Shale			1700	1790	
Shale			1790	1860	
Sand			1860	1885	
Shale			1885	1911	
Lime			1911	1955	
Big Injun			1955	2060	Show Gas at 2019 & 2050
Shale			2060	2120	
Sandy Shale (Weir)			2120	2190	
Shale			2190	2310	
Sand (Gantz)			2310	2338	
Shale			2338	2852	
Sand (Bayard)			2852	2878	Show gas
Shale			2878	3235	
Sand (Balltown)			3235	3262	
Shale			3262	3870	
Sand (Upper Riley)			3870	3900	Show Gas
Shale			3900	4778	

(Attach separate sheets to complete as necessary)

Rockwell Petroleum Company
Well Operator

By 
Robert R. Jones Partner

NOTE: Regulation 2.0011 provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including soil, encountered in the drilling of a well."

FORMATION	TOP FEET	BOTTOM	REMARKS	DROPPLEMAN #1-62
Sand (Benson)	4778	4796	Show Gas	47-017-2370
Shale	4796	4835		
Sand	4835	4842		
Shale	4842	4900		
Sand (Elk)	4900	4924	Show Gas	P-3
Shale	4924	5080		
Sandy Shale (Elk)	5080	5110		47-017-2370
Shale	5110	5226		
Total Depth	5226			

MAY 22 1979

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. Droppleman #I-624

API Well No. 47 - 017 - 2370
State County Permit

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

LOCATION: Elevation: 876' Watershed: Sand Fork Creek
District: Cove County: Doddridge Quadrangle: New Milton 7.5'

WELL OPERATOR ~~Paleo, Inc. DBA~~
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 Emma Droppleman
Address 131 West 6th Street
Weston, WV 26452

COAL OPERATOR -----
Address: -----

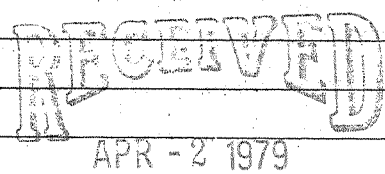
ACREAGE 104
SURFACE OWNER Roy Church
Address Route 1
New Milton, WV
ACREAGE 104

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

FIELD 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
Phone: 622-3871



Tele-622-3871

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 / other contract / dated October 26, 19 78, to the undersigned well operator from Consolidated Gas Supply Corporation

[If said deed, lease, or other contract has been recorded:]

Recorded on _____, 19____, in the office of the Clerk of the County Commission of _____ County, West Virginia, in _____ Book _____ at page _____. 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
615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

Rockwell Petroleum Company
Well Operator

BLANKET BOND

By Robert R. Jones
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, .5150 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 180 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		1100	1100	To surface	
Coal									Sizes
Intermediate									
Production	4 1/2	Seam-less	9.5				5150	160 sks Pozz	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 12-3-79.

John T. [Signature]

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.

te: , 19

By

Its