

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

Date April 24, 1979

FORM IV-35
(Obverse)

Operator's
Well No. Fonce Brown #1A

[08-78]

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

API Well No. 47 - 017 - 2360
State County Permit

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal /
(If "Gas", Production / Underground storage / Deep / Shallow)
LOCATION: Elevation: 853' 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) _____

MAY - 7 1979

PERMIT ISSUED ON March 23, 19 79

OIL & GAS INSPECTOR FOR THIS WORK:
Name Paul Garrett OIL & GAS DIVISION

(IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED

Address Clarksburg, WV
622-3871

GEOLOGICAL TARGET FORMATION: Devonian Shale Depth 5300 feet

Depth of completed well, 5200 feet Rotary / Cable Tools

Water strata depth: Fresh, 165 feet; salt, _____ feet.

Coal seam depths: ----- Is coal being mined in the area? No

Work was commenced March 27, 19 79, and completed April 4, 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	X		1123	1123	250	
Coal									Sizes
Intermediate									
Production	4 1/2		9.5	X			5090	130	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4728

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 5051 feet

Gas: Initial open flow, Not taken Mcf/d Oil: Initial open flow, 0 Bbl/d

Final open flow, 1250 Mcf/d Final open flow, 0 Bbl/d

Time of open flow between initial and final tests, 7 hours

Static rock pressure, 1760 psig (surface measurement) after 46 hours shut in

MAY 22 1979

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

Fractured April 13, 1979

Elk - 20,000 lb. 80/100 sand
40,000 lb. 20/90 sand
655 barrels of water
injection rate - 22.6 BPM at 1635 lb.
2200 lb. breakdown

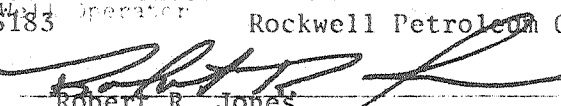
Benson - 20,000 lb. 80/100 sand
35,000 lb. 20/90 sand
578 barrels of water
injection rate - 25 BPM at 1800 lb.
1350 lb. breakdown

Perforations - 4856, 5030, 5046, 5051

Perforations - 4725, 4726 - 4728, 7 holes

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	REMARKS Including indications of oil, gas, and salt water, etc.
Surface			0	100	
Shale			100	165	
Sand			165	171	Water
Shale			171	298	
Slate			298	496	
Sandy Shale			496	601	
Shale			601	849	
Red Rock			849	902	
Shale			902	1096	
Red Rock			1096	1144	
Shale			1144	1490	
Sand			1490	1551	
Shale			1551	1715	
Sand			1715	1760	
Shale			1760	1770	
Sandy Lime			1770	1790	
Sand (Maxton)			1790	1808	
Shale			1808	1820	
Sand (Blue Monday)			1820	1840	
Slate (Pencil Cave)			1840	1860	
Lime (Big Lime)			1860	1908	
Lime			1908	1952	
Sandy Lime			1952	1975	
Shaley Lime			1975	2006	
Shale			2006	2062	
Sandy Shale (Weir)			2062	2140	
Shale			2140	2255	
Sand (Gantz)			2255	2284	
Shale			2284	2460	
Sand			2460	2500	
Shale			2500	2615	
Sand			2615	2675	
Shale			2675	2795	
Sand (Bayard)			2795	2840	
Shale			2840	4719	
Sand (Benson)			4719	4738	Show Gas
Shale			4738	4850	
Sandy Shale			4850	4862	Show Gas
Shale (Elk)			4862	5023	
Sandy Shale (Elk) ALEX.			5023	5054	Show Gas
Shale			5054	5183	
Total Depth			5183		

By 
Robert R. Jones
Partner
Rockwell Petroleum Company

NOTE: Regulation 1.211(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic, detailed geologic record of all formations, including their composition by the well log."

[08-78]

COPY

OIL AND GAS WELL PERMIT APPLICATION

Operator's
Well No. Fonce Brown #1A

API Well No. 47 - 017 - 2360
State County Permit

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

LOCATION: Elevation: 853' Watershed: Sand Fork Creek
District: Cove County: Doddridge Quadrangle: New Milton 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 Fonce Brown
Address Route 1, Box 160
New Milton, WV

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

Acreage 190.39
SURFACE OWNER Fonce Brown
Address Route 1, Box 160
New Milton, WV
Acreage 190.39

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

MAR 23 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 / other contract / dated February 26, 19 79, to the undersigned well operator from Fonce E. Brown and Rita B. Brown

[If said deed, lease, or other contract has been recorded:]
Recorded on March 8, 19 79, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in 107 Book ----- at page 673. 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

COPY

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, Devonian Shale

Estimated depth of completed well, 5300 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 132 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	New	20 lb.	X		1100'	1100'	To surface	
Coal									Sizes
Intermediate									
Production	4 1/2	Seamless	9.5	X			5300'	400 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 11-23-79

[Signature]

The following Director of Oil & Gas Division, 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