



SURFACE - OIL & GAS OWNER
 FONCE BROWN
 Rt 1, Box 160
 NEW MILTON, W.VA.

DESIGNATED AGENT:
 ROBERT E. 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 JUNCTION OF W.VA SEC 60

1/2 FARM ROAD 515' W 1040' 1/2 FROM LOCATION - ELEVATION = 859'

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-TF EST. DEPTH = 5300'
- Drill Deeper.....
- Abandonment.....

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

WELL OPERATOR/
 Company ROCKWELL PETROLEUM COMPANY
 Address P.O. BOX 86, SAND FORK, W.VA 26430
 Farm FONCE BROWN
 Tract _____ Acres 190.39 Lease No. _____
 Well (Farm) No. 2-A Serial No. _____
 Elevation (Spirit Level) 857'
 Quadrangle NEW MILTON 7.5, VADIS 15
 County ODDRIDGE District COVE
 Engineer MARK C. ECHARD
 Engineer's Registration No. 490
 File No. _____ Drawing No. _____
 Date MARCH 16, 1979 Scale 1" = 500'

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

WELL LOCATION MAP
FILE NO. 47-017-2365

+ 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 16 1979

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

Date October 11, 1979

FORM IV-35
(Obverse)

Operator's
Well No. Brown #2A

WELL OPERATOR'S REPORT
OF

API Well No. 47 - 017 - 2365
State County Permit

[08-78]

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: 857 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
Fracturing or stimulate
Plug off old formation / Perforate new formation
Other physical change in well (specify) _____
RECORDED
OCT 15 1979

PERMIT ISSUED ON March 29, 19 79 OIL & GAS INSPECTOR Paul Garrett
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED
Name Paul Garrett
Address Clarksburg, WV 23610
622-7381

GEOLOGICAL TARGET FORMATION: Devonian Shale Depth 5125 feet
Depth of completed well, 5198 feet Rotary / Cable Tools
Water strata depth: Fresh, 121 feet; salt, _____ feet.
Coal seam depths: None Is coal being mined in the area? No
Work was commenced September 7, 19 79, and completed September 13, 1979

LOGGING AND TUBING PROGRAM

LOGGING 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					1128	1128	300 sks
Intermediate								Sizes
Production	4 1/2						5170	615 sks
Tubing								Depths set
Packers								Perforations:
								Top Bottom

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4758 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 Pay zone depth 5142 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, 1552 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, _____ hours
Static rock pressure, 1832 psig (surface measurement) after _____ hours shut in

OCT 25 1979

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

Fractured September 21, 1979

Elk - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
640 bbls. water
21.5 BPM at 2100 lb.
1700 lb. breakdown

Benson - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
695 bbls. water
16.9 BPM at 1800 lb.
3100 lb. breakdown

Perforations - 4892, 4893, 5058,
5082, 5092, 5124,
5142, 1 hole each

Perforations - 4755.5, 4756, 4756.5,
4757, 4757.5, 4758,
4758.5, 1 hole each

WELL LOG

FORMATION	Color	Hard or Soft	3 Top Feet	Bottom Feet	Remarks Including indication of all free and salt water, coal, oil and gas
Surface			0	101	
Red Rock			101	121	
Sand			121	124	Water
Shale			124	195	
Red Rock			195	204	
Sand			204	209	Water
Shale			209	310	
Red Rock			310	342	
Slate			342	381	
Red Rock			381	422	
Shale			422	688	
Red Rock			688	710	
Sand			710	742	
Red Rock			742	801	
Shale			801	924	
Sand			924	948	
Slate			948	981	
Red Rock			981	1002	
Sand			1002	1041	
Slate			1041	1128	
Shale			1128	1420	
Sand			1420	1463	
Slate			1463	1471	
Sand			1471	1502	
Shale			1502	1820	
Sand			1820	1830	
Slate			1830	1840	
Lime			1840	1864	
Slate			1864	1890	
Lime			1890	1994	
Sand			1994	2010	Show of gas & oil
Lime			2010	2050	
Sandy Shale			2050	2170	
Shale			2170	2290	
Sand			2290	2318	
Sandy Shale			2318	2430	
Shale			2430	3620	
Sandy Shale			3620	3704	Show of gas
Shale			3704	4745	
Sandy Shale	Benson		4745	4764	Show of gas
Shale			4764	4860	
Sandy Shale			4860	4980	Show of gas
Shale			4980	5050	
Sandy Shale	Alex.		5050	5150	
Shale			5150	5198	
Total Depth			5198		

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."

Rockwell Petroleum Company

Well Operator

By

Mack R. Worl

Mack R. Worl

Partner

Its

COPY

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. Fonce Brown #2A
API Well No. 47-017-2365
State County Permit

WELL TYPE: Oil / Gas
(If "Gas", Production / Underground storage / Deep / Shallow
LOCATION: Elevation: 857' 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

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 -----

RECEIVED
MAR 29 1979

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address Clarksburg, WV
Phone: 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 February 26, 19 79, to the undersigned well operator from Fonce 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

[08-78]

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, 5125 feet Rotary X / Cable tools /
Approximate water strata depths: Fresh, 165 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	Seamless	9.5	X			5125	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 drilling. This permit shall expire if operations have not commenced by 11/30/79.

The following provisions shall be complied with 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