



OIL & GAS ROYALTY OWNERS
 COY HEIRS
 % IRENE LYDON
 WESTON, W. VA.

DESIGNATED AGENT -
 MR. ROBERT R. JONES
 P.O. 80286
 SAND FORK, W. VA. 26430

Minimum Error of Closure ONE PART IN 200'

Source of Elevation USGS SPOT ELEVATION AT JUNCTION OF ROADS
 3500' SW OF LOCATION ELEVATION = 859'

Fracture
 New Location GAS-DRILL-SHALLOW
 DEYONIAN SHALE EST DEPTH - 3460'
 Drill Deeper
 Abandonment

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 S E W

WELL OPERATOR/
 Company ROCKWELL PETROLEUM COMPANY
 P.O. 80286
 Address SAND FORK, W. VA. 26430
 Farm JOSEPH BROWN COX HEIR, DAVE BALLARD
& MIKE FLANAGAN
 Acreage 203 Acres Lease No. _____
 Well (Farm) No. THREE Serial No. _____
 Elevation (Spirit Level) 1036' *WC*
 Quadrangle NEW MILTON T.S., VADIS
 County DODDRIIDGE District COVE
 Surveyor MARK C. ECHARD
 Surveyor's Registration No. 490
 Map No. _____ Drawing No. _____
 Date OCTOBER 8, 1979 Scale 1" = 1000'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. 47-017-2502

+ Denotes location of well on United States Topographic Maps, scale 1 to 24000, latitude and longitude lines being represented by border lines as shown. *62500*
 OCT 25 1979
 - Denotes one inch spaces on border line of original tracing.

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

Date November 1, 19 79

FORM IV-35
(Obverse)

Operator's
Well No. Joe Brown #3

[08-78]

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

API Well No. 47 - 017 - 2502
State County Permit

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal /
(If "Gas", Production / Underground storage / Deep / Shallow /)
LOCATION: Elevation: 1036' Watershed: Sand Fork
District: Cove County: Doddridge Quadrangle: New Milton

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 October 11, 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
Address Clarksburg, WV 26301
622-3871

GEOLOGICAL TARGET FORMATION: Devonian Shale Depth _____ feet
Depth of completed well, 5040 feet Rotary / Cable Tools _____
Water strata depth: Fresh, 88 feet; salt, _____ feet.
Coal seam depths: None Is coal being mined in the area? No
Work was commenced October 13, 19 79, and completed October 18, 19 79

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
Casing water	8 5/8					1262	1262	350 sks
Intermediate								Sizes
Production	4 1/2						4977	495 sks
Perforations								Deaths set
								Perforations: Top Bottom

OIL & GAS DIVISION
DEPT. OF MINES

OPEN FLOW DATA
Producing formation _____ 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 Benson Pay zone depth 4922.5 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, 1800 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 6 hours NOV 28 1979
Static rock pressure, 1840 psig (surface measurement) after 60 hours shut in

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

Fractured October 25, 1979

Benson - 20,000 lb. 80/100
 40,000 lb. 20/40
 660 bls. water
 2700 lb. breakdown
 17.5 BPM at 1700

Perforations - 4919.5, 4920, 4920.5, 4921, 4921.5, 4922, 4922.5, 1 hole each

LL 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	88	
Sand			88	92	Water
Shale			92	108	
Sand			108	110	Water
Red Rock			110	119	
Shale			119	152	
Red Rock			152	174	
Shale			174	385	
Red Rock			385	410	
Shale			410	728	
Sand			728	742	
Shale			742	910	
Red Rock			910	933	
Sand			933	944	
Shale			944	1201	
Sand			1201	1243	
Shale			1243	1420	
Sand			1420	1488	
Shale			1488	1620	
Sand			1620	1680	
Shale			1680	1792	
Sand			1792	1821	
Shale			1821	2008	
Lime			2008	2027	
Shale			2027	2050	
Lime			2050	2204	
Slate			2204	2270	
Sandy Shale			2270	2330	
Shale			2330	2445	
Sand			2445	2470	
Shale			2470	2985	
Sandy Shale			2985	3020	
Shale			3020	3320	
Sandy Shale			3320	3430	
Shale			3430	4450	
Sandy Shale			4450	4480	
Shale			4480	4912	
Sandy Shale BENSON			4912	4924	Show of gas
Shale			4924	5040	
Total Depth			5040		

Rockwell Petroleum Company

Well Operator

By Mack R. [Signature]

Its Partner

NOTE: Regulation 2.02(i) provides as follows:

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

[08-78]

COPY

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J. Brown #3
API Well No. 47 - 017 - 2502
State County Permit

WELL TYPE: Oil / Gas X /
(If "Gas", Production X / Underground storage / Deep / Shallow X /)
LOCATION: Elevation: 1036' Watershed: Sand Fork
District: Cove County: Doddridge Quadrangle: New Milton

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 Cox Heirs
Address %Irene Lydon
Weston, WV 26452

COAL OPERATOR None
Address

SURFACE OWNER Dave Ballard
Address Crofton, MD 21113
Acreage 203

COAL OWNER(S) WITH DECLARATION ON RECORD
Name None
Address

RECEIVED
OCT 11 1979

FIELD SALE (IF MADE) TO:
Name N/A
Address

Name None
Address

**OIL & GAS DIVISION
DEPT. OF MINES**

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

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract X / dated September 20, 1979, to the undersigned well operator from George C. Stubbs and R. Wayne Christenson
If said deed, lease, or other contract has been recorded:]

Recorded on NOT OF RECORD, 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 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 GEOPHYSICAL 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 [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, 5460' feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 121 feet; salt, feet.

Approximate coal seam depths: None 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					1100'	1100'	To surface	
Coal									Sizes
Intermediate									
Production	4 1/2						5460'	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.

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 6-11-80.


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.

Date: , 19

By
Its