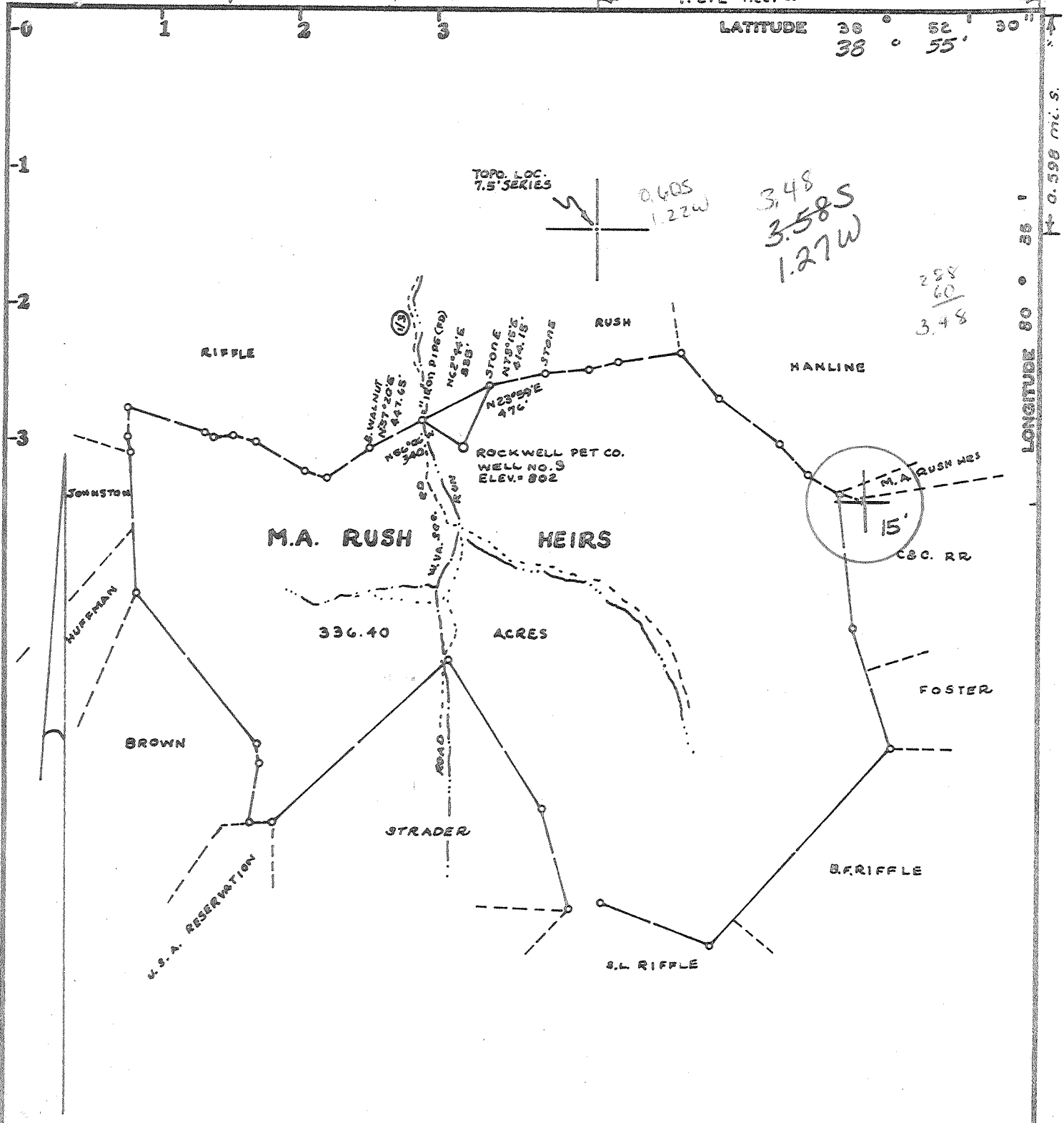


1.212 mi. W.

LATITUDE 38° 52' 30"
38° 55'

LONGITUDE 80° 25' 15" 80° 25' 30"



Minimum Error of Closure ONE PART IN 200

Sources of Elevation B. M. NORTH 950' FROM LOCATION ON
SOUTH SIDE OIL CREEK ROAD ELEV. 776'

- Fracture.....
- New Location.....
- 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

Map No.

Company ROCKWELL PETROLEUM COMPANY
 Address P.O. BOX 86, SAND FORK, W.VA. 26430
 Farm M. A. RUSH, HEIRS, L.F. STRADER
 Tract _____ Acres 336.40 Lease No. _____
 Well (Farm) No. THREE Serial No. _____
 Elevation (Spirit Level) 802'
 Quadrangle BURNSVILLE 15'
ORLANDO 7.5'
 County BRAXTON District SALT LICK
 Surveyor MARK C. ECHARD
 Surveyor's Registration No. 490
 File No. _____ Drawing No. _____
 Date SEPTEMBER 11, 1978 Scale 1" = 1000'

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

WELL LOCATION MAP
FILE NO. 47-007-1407

+ 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.
JUN 21 1979

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

Date August 22
Operator's Well No. Rush #3
API Well No. 67-007-1467
State County West Virginia

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

WELL OPERATOR'S REPORT
OF
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: 802' Watershed: Rush Run of Oil Creek
District: Salt Lick County: Braxton Quadrangle: Orlando

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 June 6, 19 79

OIL & GAS INSPECTOR FOR THIS WORK:
Name Robert Bates
Address Weston, WV
269-3820

(IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
_____, 19 _____)

GEOLOGICAL TARGET FORMATION: Balltown Depth 3275 feet
Depth of completed well, 3327 feet Rotary / Cable Tools
Water strata depth: Fresh, 118 feet; salt, _____ feet.
Coal seam depths: None Is coal being mined in the area? No
Work was commenced June 22, 19 79, and completed August 18, 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		
Conductor								Kinds
Fresh water	10 5/8					220	220	90 sks
Coal								Sizes
Intermediate								
Production	4 1/2						3219	275 sks
Tubing								Depths set
Liners								Perforations:
								Top Bottom

OIL & GAS DIVISION
DEPT. OF MINES
2016
2114
Pay zone depth _____

OPEN FLOW DATA
Producing formation Gordan Sand
Fifth Sand
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 Speechley Pay zone depth 2885 feet
Balltown Pay zone depth 3176 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, 0 Bbl/d
COMBINED Final open flow, 1,200 Mcf/d Final open flow, 0 Bbl/d
Time of open flow between initial and final tests, 8 hours
Static rock pressure, _____ psig (surface measurement) after 24 hours shut in

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

Fractured August 24, 1979


1st Stage :	2nd Stage:	3rd Stage:
10,000 lb. 80/100 sand	15,000 lb. 80/100 sand	10,000 lb. 80/100 sand
10,000 lb. 20/40 sand	30,000 lb. 20/40 sand	20,000 lb. 20/40 sand
100 bls. water	465 bls. water	350 bls. water
100 lb. breakdown	2400 lb. breakdown	2820 lb. breakdown
1.13 BPM at 1900 lb.	22.14 BPM at 1850 lb.	19.4 BPM at 2200 lb.
Perfs - 2993 - 3176, 8 holes	Perfs - 2205 - 2885, 8 holes	Perfs - 2091 - 2114, 7 holes
4th Stage:	20.6 BPM at 2000 lb.	
10,000 lb. 80/100 sand	Perfs - 1822 - 2016, 6 holes	
10,000 lb. 20/40 sand		
100 bls. water		
100 lb. breakdown		

WELL LOG

FORMATION	Color	Hard or Soft	5 Top Feet	Bottom Feet	Remarks Including intervals containing gas and salt water, etc.
Surface			0	118	
Sand			118	122	Water
Slate			122	184	
Red Rock			184	208	
Slate			208	310	
Red Rock			310	325	
Sand			325	328	
Red Rock			328	342	
Slate			342	480	
Sand			480	488	
Slate			488	620	
Red Rock			620	681	
Slate			681	1120	
Sand			1120	1141	
Slate			1141	1460	
Lime			1460	1485	
Slate			1485	1510	
Lime			1510	1560	
Big Injun			1560	1710	
Shale			1710	2080	
Sand			2080	2150	Show gas
Shale			2150	2200	
Sandy Shale			2200	2212	
Shale			2212	2985	
Sandy Shale			2985	3010	
Shale with sand stringers			3010	3280	Show gas
Shale			3280	3327	
Total Depth			3327		

(Attach separate sheets to complete as necessary.)

Rockwell Petroleum Company
Well Operator

By 
Robert R. Jones
Partner

NOTE: Regulation 3.02(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."

[08-78]

COPY

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. Rush #3
API Well No. 47 - 007 - 1407
State County Permit

WELL TYPE: Oil / Gas /
(If "Gas", Production / Underground storage / Deep / Shallow)
LOCATION: Elevation: 802' Watershed: Rush Run of Oil Creek
District: Salt Lick County: Braxton Quadrangle: Orlando

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 M. A. Rush Heirs
Address P O Box 201
Weston, WV 26452

COAL OPERATOR None
Address _____

Acreage 336

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER L. E. Strader
Address Orlando, WV

Name None

Address _____

Acreage 7

Name None

FIELD SALE (IF MADE) TO:

Address _____

Name -----

COAL LESSEE WITH DECLARATION ON RECORD:

Name -----

Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED

Name Robert Bates

Address Weston, WV
269-3820

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

RECEIVED

JUN - 6 1979

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 9, 19 79, to the undersigned well operator from M. A. Rush Heirs

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

Recorded on June 15, 19 78, in the office of the Clerk of the County Commission of Braxton County, West Virginia, in Deed Book 366 at page 172. 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 Robert R. Jones
Its Partner

