



SURFACE & OIL AND GAS OWNERS(S)  
 EVERETT J. NICHOLSON  
 NEW MILTON, W.VA.

DESIGNATED AGENT -  
 GAI L. SMYTHE  
 GLENVILLE, W.VA. 26351

Minimum Error of Closure ONE PART IN 300'

Source of Elevation USGS SPOT ELEVATION S 51° W 3100' FROM LOC.

TOP OF KNORR ELEVATION = 1412'

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.....  GAS-DRILL-SHALLOW  
 New Location.....  DEVONIAN SHALE: YF  
 EST. DEPTH: 5500'  
 Drill Deeper.....   
 Abandonment.....

Signed: mark c. echart  
 Squares: N S E W

WELL OPERATOR/  
 Company RUSSELL V. JOHNSON, JR.  
 Address 925 FIRST LIFE ASSURANCE BUILDING OKLAHOMA CITY, OKLAHOMA 73102

Farm EVERETT J. NICHOLSON

Tract \_\_\_\_\_ Acres 117.55 Lease No. \_\_\_\_\_

Well (Farm) No. 00E Serial No. \_\_\_\_\_

Elevation (Spirit Level) 1321' NC

Quadrangle NEW MILTON 7.5' VADIS 15'

County DODDRIDGE District NEW MILTON

SURVEYOR/  
 Engineer MARK C. ECHARD

SURVEYOR'S/  
 Engineer's Registration No. 490 LLS

File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_

Date AUGUST 3, 1979 Scale 1" = 500'

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

**WELL LOCATION MAP**  
 API-NO-47-017-  
 FILE NO. 017-2688

+ 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.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary \_\_\_\_\_ Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas \_\_\_\_\_  
Recycling \_\_\_\_\_ Comb. X  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind)

Quadrangle New Milton

Permit No. 47-017-2688

Company Russell V. Johnson, Jr.  
Address P.O. Drawer "L", Glenville, WV  
Farm E.J. Nicholson Acres 117.55  
Location (waters) Little Indian Fork  
Well No. One-E Elev. 1321'  
District New Milton County Doddridge  
The surface of tract is owned in fee by E.J. Nicholson  
Address New Milton, WV  
Mineral rights are owned by E.J. Nicholson  
Address New Milton

Drilling Commenced 5-14-80  
Drilling Completed 5-19-80  
Initial open flow 86M cu. ft. 10 bbls.  
Final production 527M cu. ft. per day 5 bbls.  
Well open 15 hrs. hrs. before test -- RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu ft (Sks.)
Size 20-16			
Cond. 13 10"			
5 5/8	1456'	1456'	340 sks
4 1/2	5632'	5632'	
Liners Used			

Well treatment details:  
**BENSON-ELK** **RILEY** **BENSON-ELK**  
 I-53 Clay Cont. 25 gal. 15% NCL Acid 500 gal.  
 15% NCL Acid 500 gal. W-22 Non Emul. 25 gal. 5248 TO 5576 8 holes  
 W-22 Non Emul. 25 gal. L-53 Clay Cont. 25 gal. BBLs. 481  
 80/100 Sand Prop. 20000# 80/100 Sand Prop. 15000#  
 20/40 Sand Prop. 45000# 20/40 Sand Prop. 30000# **RILEY**  
 J-266 Gel. 350# J-266 Gel. 350# 5125 to 5134 6 holes  
 F-78 Surf. 12 gal. F-78 Surf. 13 gal. BBLs. 428

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches 527 MCF + 500  
 Fresh water Alex. Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
 Producing Sand Benson-Elk (Devonian Shale) Depth \_\_\_\_\_  
5242-54 5536-76

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand & Shale				32	water	1005' 1/2"
Sand			52	77		
Shale & Sand			77	118		
Sand			118	130		
Shale & Sand			130	212		
Shale			212	274		
Sand & Shale			274	294		
Shale			294	378		
Sand & Shale			378	645		
Sand			645	665		
Shale			665	950		
Coal & Shale			950	974		
Shale			974	1047		
Sand			1047	1745		
Shale			1745	1755	water	1800' 1"
Sand			1755	1836		
Sand & Shale			1836	2015		
Sand			2015	2075		
RR, Shale & Sand			2075	2325		
Little Lime			2325	2340	Gas @ 2561	25/10-1/2" Mer.
Shale			2340	2353		
Big Lime			2353	2428	Gas @ TD.	36/10-1 1/4" - Water

Description	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Big Injun			2428	2499	Gas 38 MCF	
Shale			2499	2548		
Weir			2548	2658		
Shale			2658	2914		
Hole washed out			2914	2965		
Shale			2965	3014		
Hole washed out			3014	3311		
Shale			3311	5121		
Riley			5121	5142		
Shale			5142	5242		
Benson			5242	5254		
Shale			5254	5536		
Elk Alex.			5536	5614		
Shale			5614	5673		(logger's TD)

Date 20 February 19 81

APPROVED J. I. Smith Owner  
Gen'l Man.

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's  
Well No. E.J. Nicholson #1-E

API Well No. 47 - 017 - 2688  
State Permit Form

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

LOCATION: Elevation: 1321' Watershed: Little Indian Fork  
District: New Milton County: Doddridge Quadrangle: New Milton 7.5'

WELL OPERATOR Russell V. Johnson, Jr.  
Address Drawer "L"  
Glennville, WV 26351

DESIGNATED AGENT Gai L. Smythe  
Address Drawer "L"  
Glennville, WV 26351

OIL & GAS ROYALTY OWNER E.J. Nicholson  
Address New Milton, WV

COAL OPERATOR --N/A--  
Address

Acreage 117.55 Ac.

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER E. J. Nicholson  
Address New Milton, WV

Name --N/A--  
Address

Acreage 117.55 Ac.

Name

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

Address

Address

COAL LESSEE WITH DECLARATION ON RECORD:

Name N/A  
Address

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Paul Garrett  
Address 321 Beech Street  
Clarksburg, WV 26301

RECEIVED  
APR 21 1980

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  assignment dated \_\_\_\_, 19 \_\_\_\_, from undersigned well operator from Rockwell Petroleum Company

[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  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

Russell V. Johnson, Jr.  
Well Operator

BLANKET BOND

By Gai L. Smythe  
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) unknown

Address \_\_\_\_\_

GEOLOGICAL TARGET FORMATION, Elk

Estimated depth of completed well, 5750 feet Rotary  / Cable tools \_\_\_\_\_ /

Approximate water strata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.

Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes \_\_\_\_\_ / No  /

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	8-5/8		20.0	X		1450'	1450'	390 sks
Coal								Sizes
Intermediate								
Production	4 1/2		9.5	X			5630'	190 sks
Tubing								Depths set
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 drilling within 200 feet of the proposed well.

THIS PERMIT ~~shall be posted at the well site~~ 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 12-24-80

*Robert T. [Signature]*  
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.

\_\_\_\_\_, 19\_\_\_\_

By \_\_\_\_\_  
Its \_\_\_\_\_