



ACCURACY: 1P / 200P

Source of Elevation U.S.G.M. ON RT. #18 (759')

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.

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill

Chet Waterman

Company	PENN RESOURCES, INC. <small>Willard E. Ferrell, Agt.</small>	
Address	PHILADELPHIA, PA.	
Farm	W.A. FORD (O.T. Smith)	
Tract	Acres 202.28	Lease No.
Well (Farm) No.	?	Serial No.
Elevation (Spirit Level)	1094'	
Quadrangle	WEST UNION SE	
County	DODDRIDGE	District WEST UNION
Engineer	CHET WATERMAN	
Engineer's Registration No.	3788	
File No.	71003-379	Drawing No.
Date	9/24/71	Scale 1" = 40P

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

WELL LOCATION MAP
FILE NO. DOD-1645

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, 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 4

Quadrangle West Union

Permit No. DOD 1645

Rotary _____ Oil _____
Cable X Gas _____
Recycling _____ Comb. X NOTE
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Company <u>Penn Resources, Inc. Willard E. Ferrell, Agent</u>	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>1 Dacker Square, Bala Cynwyd, Pa. 19004</u>			
Farm <u>W.A. Ford - O.T. Smith</u> Acres <u>204</u>	Size		
Location (waters) <u>Middle Island Creek</u>	20-16	20	
Well No. <u>2 (P.W.200)</u> Elev. <u>1094</u>	Cond.		
District <u>West Union</u> County <u>Doddridge</u>	13-10"	485	485
The surface of tract is owned in fee by _____	9 5/8		
<u>W.A. Ford</u>	8 5/8	1187	
Address <u>West Union, W.Va.</u>	7		
Mineral rights are owned by <u>W.A. Ford & Noel</u>	5 1/2		
<u>Welsh</u> Address <u>West Union & Parkersburg</u>	4 1/2	2181	2181
Drilling Commenced <u>Nov. 11, 1971</u> W.Va	3		
Drilling Completed <u>Dec. 15, 1971</u>	2		
Initial open flow <u>40M</u> cu. ft. <u>Show</u> bbls.	Liners Used		
Final production <u>180M</u> cu. ft. per day <u>2</u> bbls			
Well open <u>12</u> hrs. before test <u>320</u> RP.			

Well treatment details:

Attach copy of cementing record.

500 gal Acid -- 1000 bls fluid --- 50000 sand

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet
Producing Sand Big Injun Depth 2082 -- 2100

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Top Soil			0	8		
Red Rock			8	45		
Sand			45	75		
Slate & Shells			75	90		
Red Rock			90	195		
Slate			195	270		
Sand			270	290		
Red Rock			290	435		
Slate			435	485		
Sand			485	550		
Slate & Shells			550	700		
Lime			700	765		
Slate & Shells			765	870		
Red Rock			870	900		
Slate			900	947		
Sand			947	997		
Slate & Shells			997	1035		
Red Rock			1035	1113		
Lime			1113	1130		
Red Rock			1130	1258		
Slate			1258	1321		
Sand			1321	1442		
Lime Shells			1442	1530		

APR 27 1972

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet <i>y</i>	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			1530	1656		
Lime			1656	1754		
Sand			1754	1828		
Lime			1828	1870		
Slate & Shells			1870	1925		
Lime			- 1925	1945		
Slate			1945	1962		
Big Lime			- 1962	2033		
Sand - <i>Big Injun</i>			<u>2033</u>	<u>2125</u>	Show oil & gas	
Slate			2125	2182	Total Depth	

Date March 24, 1972

APPROVED _____, Owner

By _____ (Title)