



ACCURACY: 1P / 200P

Source of Elevation ROAD INTERSECTION (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.

Chet Waterman

Company	PENN RESOURCES, INC. ^{W. E.} _{Farrell, Agt}	
Address	PHILADELPHIA, PA.	
Farm	LEVI ROBERTS HEIRS	
Tract	Acres 225	Lease No. _____
Well (Farm) No.	3	Serial No. _____
Elevation (Spirit Level)	1010'	
Quadrangle	CENTERPOINT	CC
County	DODDRIDGE	District McCLELLAN
Engineer	CHET WATERMAN	
Engineer's Registration No.	3788	
File No.	71003-381	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 - 1647

+ 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 ₅

Quadrangle Centerpoint

Permit No. DOD 1647

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

Company Penn Resources, Inc. Willard E. Ferrell, Agent
Address 1 Decker Square, Bala Cynwyd, Pa. 19004
Farm Levi Roberts Acres 156
Location (waters) Riggins Run
Well No. Series 3 (P.W. 180) Elev. 1010
District McClallen County Doddridge
The surface of tract is owned in fee by _____
Arby Gaspel
Address Salman Rt. West Union, W.Va
Mineral rights are owned by Robert Heira
Address Vienna, West Va.
Drilling Commenced Nov. 15, 1971
Drilling Completed Dec. 28, 1971
Initial open flow 40 M cu. ft. Show bbls.
Final production 250M cu. ft. per day 3 bbls.
Well open ? hrs. before test 320 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16	15	15	
Cond. 13-10"	458	458	
9 5/8			
8 5/8	1131		
7			
5 1/2	1582		
4 1/2	2209	2209	
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

500 gal Acid --- 750 Bls fluid 30000 lbs sand

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet
Producing Sand Big Injun Depth 1955-- 1975 Bl. Mond. + B. Line

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Top Soil			0	15		
Sand			15	50		
Red Rock			50	100		
Slate			100	140		
Lime			140	160		
Slate & Shells			160	225		
Red Rock			225	300		
Slate			300	325		
Sand			325	365		
Slate			365	400		
Red Rock			400	450		
Slate			450	535		
Sand			535	565		
Slate			565	620		
Lime			620	645		
Slate			645	655		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			655	720		
Slate			720	760		
Red Rock			760	775		
Slate			775	825		
Red Rock			825	845		
Lime			845	865		
Red Rock			865	900		
Slate			900	975		
Red Rock			975	990		
Lime Shells			990	1025		
Black Slate			1025	1045		
Slate & Shells			1045	1050		
Sand			1050	1095		
Slate			1095	1150		
Sand			1150	1400		
Slate			1400	1450		
Sand			1450	1475		
Slate			1475	1550		
Sand			1550	1630		
Slate			1630	1670		
Sand			1670	1715		
Slate			1715	1760		
Sand			1760	1850		
Slate			1850	1880		
Red Lime			1880	1890		
Slate			1890	1934		
Blue Sand (Blue Monday)			1934	1963		
Big Lime			1963	2008		
Sand Big Injun			2008	2135		
Slate			2135	2140		
Sand Squaw			2140	2185		
Slate			2185	2209		
			Total Depth	2209		

Show of Gas 2045 Big Injun

Date March 24, 1912

APPROVED William E. Fernald Owner

By _____ (Title)