

Charleston, WV

RECEIVED WR Office of Oil & Gas Permitting

rarm name:

30-Jun-99 API # 47-109-01823 C

Reviewed_

State of West Virginia Division of Environmental Protection Section of Oil and Gas Well Operator's Report of Well Work

WV Division of Environmental Pretection

MAR 22 2000

FRAZIER, CHARLIE

Operator Well No.: 5CR-234

Elevation: 1,380.60 Quadrangle: MATHENY LOCATION:

District: SLAB FORK County: WYOMING
Latitude: 6650 Feet South of 37 Deg. 42Min. 30 Sec.
Longitude 900 Feet West of 81 Deg. 32 Min. 30 Sec.

Company: PENN VIRGINIA OIL AND GAS 999 EXEC. PARK BLVD., STE. 300 KINGSPORT, TN 37660-0000	Ar i	Used in Drilling	L .	
Agent: HARRY JEWELL, III	Size			
Inspector: OFIE HELMICK Permit Issued: 07/01/99	13 3/8"	21'	21'	0
Well work Commenced: 09/09/99 Well work Completed: 10/22/99 Verbal Plugging Permission granted on:	8 5/8"	346'	346'	229 cu ft
Rotary x Cable Rig Total Depth (feet) 986' Fresh water depths (ft) 1" at 170',	4 1/2"	966'	966'	271 cu ft
1" at 470', 1" at 529' Salt water depths (ft)	2 3/8"	[858	
Is coal being mined in area (Y/N) N Coal Depths (ft): See Log				

OPEN FLOW DATA Poca 4 Sand, Poca 4, Poca 5, Poca 6 & Fire Creek Coals on ______ Pay zone depth (ft) _____ Producing formation___ Gas: Initial open flow Final open flow Show Time of open flow between initial and final tests psig (surface pressure) after Static rock Pressure na Pay zone depth (ft)_ Second producing formation_ Second producing formation MCF/d Oil: Initial open flow Gas: Initial open flow MCF/d Oil: Initial open flow MCF/d Final open flow ____Bbl/d Final open flow_ Time of open flow between initial and final tests Hours psig (surface pressure) after Static rock Pressure NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: PENN VIRGINIA OIL AND GAS CORPORATION

By: 4 flag M. Frow

Date: 12/10/99

FORM WR-35R (REVERSE)

PERMIT #: 47-109-01823 WELL #: 5CR-234

ISIP: 2500 psi

Stage 1	Poca 4 Sand & Poca 4 Coal	& Perforated Sand from 813' to 820' with 15 holes and Coal from 825'-828' with 9 holes. Breakdown with 500 gallons 7.5% HCL acid and water. Treated with 317 bbls of water and 10047 lbs 20/40 sand.						
		ATR: 20 BMP ATP: 2055 psi ISIP: 850 psi						
Stage 2	Poca 5 Coal	Perforated from 783' to 788' with 15 holes and from 790' to 795' with 15 holes. Breakdown with 336 gallons 7.5% HCL acid and water. Treated with 237 bbls of water and 5867 lbs 20/40 sand. ATR: 20.4 BMP ATP: 2205 psi ISIP: 1120 psi						
Stage 3	Poca 6 Coal	Perforated from 731'-735' with 20 holes. Breakdown with 336 gallons 7.5% HCL acid and water. Treated with 290 bbls of water and 8667 lbs 20/40 sand. ATR: 19.1 BMP ATP: 3221 psi ISIP: 1975 psi						
Stage 4	Fire Creek Coal	Perforated from 638'-642' with 20 holes. Breakdown with 336 gallons 7.5% HCL acid and water. Treated with 234 bbls of water and 5905 lbs 20/40 sand.						

	and 5905 lbs 20/40 sand.				
	ATR: 20.6 B	MP ATP: 3435 psi	IS		
<u>TOP</u>	<u>BOTTOM</u>	<u>REMARKS</u>			
0	140				
140	210				
210	265				
265	470	•			
470	472				
472	503				
503	637				
637	641				
641	720				
720	730				
730	736				
736	783				
783	785				
785	790				
790	792				
792	806				
806	826				
826 -	828				
828	878				
878	879				
879	986	No shows reported @ TD			
	0 140 210 265 470 472 503 637 641 720 736 785 790 792 806 826 828 878	ATR: 20.6 B TOP BOTTOM 140 140 210 210 265 265 470 470 472 472 503 503 637 637 641 641 720 720 730 730 736 736 736 736 736 736 737 736 736 737 736 737 737	ATR: 20.6 BMP ATP: 3435 psi TOP BOTTOM REMARKS 0 140 140 210 210 265 265 470 470 472 472 503 503 637 637 641 641 720 720 730 730 736 736 783 783 785 785 790 790 792 792 806 806 826 826 828 828 878 878 879		