Sheet #3

Lime and chert	10086	10184	3/4° @ 10107
Chert	10184	10185	
Chert and lime	10185	10212	
Black shale	10212	10218	
Black shale and lime	10218	10244	1° @ 10244
Lime	10244	10317	
			10310-10317 trace yellow fluorescence trace inter-crystalline porosity, dead oil oder, by samples
Drill Stem Test	10285	10317	Permo Penn, 2 packers, 3 hrs. 5/8" BHC and 1" SC, 1350' WC, Rec. 30' WC, no shows, and 1320' WC slightly cut with oil and gas, 210' heavily oil and gas cut drlg. mud, BHFP 2000-2250#, 15 min. S-I BHP 2400#, HH 5250-5200#.
8-3/4" Dia. core Permo Penn	10317	10327	Rec. 10', (20-24 MPF) 4' finely crystalline to medium crystalline gray limestone, 10% inter-crystalline porosity, fair odor and fluorescence , 6' black to gray and green shale.
Shale	10327	10337	
Drill Stem Test	10285	10337	Permo Penn, 2 packers, 2-3/4 hrs. 5/8" BHC and 1" SC, 1410' WC, Rec. 1410' slightly oil and gas cut water cushion, 330' heavy oil and gas cut drlg. mud, BHFP 700-775#, 20 min. S-I BHP 2000# HH 5250-5200#.
Shale and lime	10337	10340	
8-3/4" Dia. core Permo Penn	10340	10345	Rec. 5', and packer rubber. 6" finely crystalline gray limestone.
			With 8-3/4" bit and basket, drilling to clean up hole 10345-10350 in lime recovered 2 pieces packer rubber, a piece iron core catcher.
Lime	10345	10350	
8-3/4" Dia. core Permo Penn	10350	10368	Rec. 17', (38-50 MPF) Finely crystalline to very finely crystalline gray to tan limestone with gray shale stringers.
8-3/4" Dia. core Permo Penn	10368	10422	Rec. 54' 20' finely crystalline tan to brown limestone with gray shale partings, 2' gray to green shale, 14' finely crystalline tan to brown limestone with gray shale partings, trace chert, 2' gray to green shale with limestone nodules, 16' finely crystalline gray to brown limestone, shaley at bottom.
Lime and shale	10422	10476	1-1/2° @ 10450
			<u>DPC 10476 = 10484</u>
Chert	10484	10485	
Lime and shale	10485	10541	1° @ 10513
			Drilling break 10535-10539 from 15 to 6 MPF in Permo Penn.
Drill Stem Test	10526	10541	Permo Penn, 2 packers, 3 hrs. 5/8" BHC and 1" SC, 1750' WC, Gas 2-1/4 hrs. Too small to measure, Rec. 10' free oil, Gravity 36.5° @ 60°, 110' oil and gas cut mud, 1750' oil and gas cut WC. BHFP 775-775# 15 min. S-I BHP 160