

REGISTERED DATA SHEET PERFORMING SYSTEM EVALUATION, API RP 199 SECTION 1



Service Company Available to all _____ Design Number _____ Explosive Weight 22.7 gm, _____ HMX _____ powder, Case Material _____ Steel
 Gun OD & Trade Name 3 1/8" High Shot Density Gun 8 SPF 60" DP HMX Max Temp, °F 400 1 hr _____ 3 hr _____ 24 hr _____ 100 hr _____ 200 hr
 Charge Name 22.7gms. Universal DP HMX (DSC 04-09-52) Maximum Pressure Rating 20,000 psi, Carrier Material _____ Steel
 Manufacturer Charge Part No. IC28HP Date of Manufacture Sept 27th 2004 Shot Density Tested _____ g
 Gun Type _____ High Shot Density Gun, 8 SPF 60" Recommended Minimum ID for Running _____ in.
 Pressing Tested 60 degrees, Firing Order X Top Down, _____ Bottom Up Available Firing Mode _____ Selective, _____ Simultaneous
 Debris Description N/A Debris Weight _____ gm/charge, Debris _____ N/A _____ hr²/charge
 Remarks * Gun OD after shooting in liquid is 3.24in.

SECTION 1 - CONCRETE TARGET

Target Data	4 1/2" OD,	Weight	11.8	lb/n,	8850	lb,	L-80	API Grade,	Date of Section 1 Test	December 20 th 2004	Amount of Water	4500	lb.
Target Data	85" OD,	Amount of Cement	8850	lb/n,	8850	lb,	L-80	API Grade,	Date of Section 1 Test	December 20 th 2004	Amount of Water	4500	lb.
Date of Compressive Strength Test	December 21 st 2004	Brigette Compressive Strength	5584	psi,	5584	psi,	5584	psi,	5584	psi,	5584	psi,	5584
Shot No.	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	No. 10	No. 11	Average	
Clearance, in.	0.00	0.18	0.62	0.87	0.62	0.18	0.00	0.18	0.62	0.87	0.62	0.412	
Casing Hole Diameter, Short Axis, in.	0.41	0.38	0.38	0.37	0.38	0.38	0.39	0.35	0.38	0.37	0.38	0.378	
Casing Hole Diameter, Long Axis, in.	0.42	0.39	0.37	0.38	0.40	0.39	0.40	0.37	0.40	0.39	0.40	0.382	
Average Casing Hole Diameter, in.	0.415	0.385	0.385	0.375	0.395	0.395	0.395	0.390	0.390	0.390	0.390	0.385	
Total Depth, in.	34.500	29.750	30.750	27.500	28.750	31.750	32.250	34.000	30.500	24.250	32.000	29.771	
Burr Height, in.	0.027	0.032	0.048	0.068	0.050	0.039	0.028	0.053	0.046	0.029	0.045	0.0423	
Shot No.	No. 12	No. 13	No. 14	No. 15	No. 16	No. 17	No. 18	No. 19	No. 20	No. 21	No. 22	Average	
Clearance, in.	0.18	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.378	
Casing Hole Diameter, Short Axis, in.	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.378	
Casing Hole Diameter, Long Axis, in.	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.382	
Average Casing Hole Diameter, in.	0.385	0.385	0.385	0.385	0.385	0.385	0.385	0.385	0.385	0.385	0.385	0.385	
Total Depth, in.	33.250	33.250	33.250	33.250	33.250	33.250	33.250	33.250	33.250	33.250	33.250	33.250	
Burr Height, in.	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.0423	

WITNESSING INFORMATION

Date of Notice of Intent to Test: November 15th 2004 Witnessed by: J. Smitoff (API Certified)
 Other Activities Witnessed: Target Pouring _____ Brigrutte Preparation _____ Testing X Burr Height Measurement X Sample Taking: Concrete X Casing X

CERTIFICATION

I certify that these tests were made according to the procedures as outlined in API RP 199: Recommended Practices for Evaluation of Well Performers, First Edition, November 2000. All of the equipment used in these tests were the guns, jet charges detonator cord, etc., was standard equipment with our company for the use in the gun being tested and was not changed in any manner for the test. Further, the equipment was chosen at random from stock and therefore will be substantially the same as the equipment, which would be furnished to perform a well for any operator. The American Petroleum Institute neither endorses these test results nor recommends the use of the performer system described.

CERTIFIED BY: S. A. Performing Projects Manager Dec 21st 2004 Explosivos Tecnologicos Argentinos S.A. Ruta 25Km.13 Pbr.- Bs.As. Argentina
 RECERTIFIED BY: D. A. R. (Title) (Date) _____ (Company) _____ (Address)
 GENERAL MANAGER
 PROJECTS MANAGER