



REGISTERED DATA SHEET PERFORATING SYSTEM EVALUATION, API RP 19B SECTION 1

Service Company Available to all Design Number _____ Explosive Weight 39 gm, HMX powder, Case Material Zamac
 Gun OD & Trade Name 7" High Shot Density Gun BH HMX Max. Temp, °F 400 1 hr _____ 3 hr _____ 24 hr _____ 100 hr _____ 200 hr
 Charge Name 39gms HMX BH Universal (DSC 06-02-50) Maximum Pressure Rating 13,000 psi, Carrier Material Steel
 Manufacturer Charge Part No. TC50HBH Date of Manufacture Feb 28th 2006 Shot Density Tested _____ 12 _____ Shots/ft
 Gun Type High Shot Density Gun, 12 SPF 135° Recommended Minimum ID for Running _____ * _____ in.
 Phasing Tested 135° degrees, Firing Order X Top Down, _____ Bottom Up Available Firing Mode _____ X _____ Selective, _____ X _____ Simultaneous
 Debris Description N/A Debris Weight _____ N/A _____ gm/charge, Debris _____ N/A _____ in³/charge
 Remarks * Gun OD after shooting in liquid 7.15In.

SECTION 1 - CONCRETE TARGET

Casing Data 9 5/8" OD, Weight 47 lb/ft, L-80 API Grade, Date of Section 1 Test June 06th 2006
 Target Data 50" OD, Amount of Cement 2900 lb., Amount of Sand 5800 lb., Amount of Water 1500 lb.
 Date of Compressive Strength Test June 06th 2006, Briquette Compressive Strength 7187 psi, Age of Target 36 days

Shot No.	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	No. 10	No. 11
Clearance, in.....	0.375	1.179	0.860	0.520	1.306	0.520	0.860	1.179	0.375	1.179	0.860
Casing Hole Diameter, Short Axis, in.....	0.890	0.990	0.980	0.940	1.100	0.980	0.980	1.120	0.900	1.050	0.990
Casing Hole Diameter, Long Axis, in.....	0.950	1.050	1.000	0.980	1.200	0.990	1.000	1.130	0.940	1.100	1.040
Average Casing Hole Diameter, in.....	0.920	1.020	0.990	0.960	1.150	0.975	0.990	1.125	0.920	1.075	1.015
Total Depth, in.....	5.470	6.470	6.720	6.470	6.220	6.720	7.470	6.720	6.220	6.970	5.470
Burr Height, in.....	0.050	0.045	0.050	0.035	0.070	0.023	0.041	0.055	0.054	0.032	0.050

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.....	0.520	1.306	0.520	0.860	1.179	0.375	1.179	0.860	0.520			0.827
Casing Hole Diameter, Short Axis, in.....	0.980	1.150	0.970	0.990	1.100	0.960	0.980	1.000	0.990			1.000
Casing Hole Diameter, Long Axis, in.....	0.990	1.170	1.020	1.050	1.120	0.980	0.990	1.120	1.200			1.051
Average Casing Hole Diameter, in.....	0.975	1.160	0.995	1.020	1.110	0.970	0.985	1.060	1.095			1.026
Total Depth, in.....	6.220	5.720	5.470	6.970	7.220	5.970	5.220	5.470	6.220			6.270
Burr Height, in.....	0.043	0.060	0.065	0.042	0.040	0.055	0.045	0.051	0.049			0.048

WITNESSING INFORMATION

Date of Notice of Intent to Test: May 2nd 2006 Witnessed by: J. Smirnov J. Smirnov (API Certified)

Other Activities Witnessed: Target Pouring _____ Briquette: Preparation _____ Testing X Burr Height Measurement X Samples Taken: Concrete X Casing X

CERTIFICATION

I certify that these tests were made according to the procedures as outlined in API RP 19B: Recommended Practices for Evaluation of Well Perforators, First Edition, November 2000. All of the equipment used in these tests, such as 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. Furthermore, the equipment was chosen at random from stock and therefore will be substantially the same as the equipment, which would be furnished to perforate a well for any operator. The American Petroleum Institute neither endorses these test results nor recommends the use of the perforator system described.

X CERTIFIED BY [Signature] Perforating Projects Manager June 08th 2006 Explosivos Tecnologicos Argentinos S.A. Ruta 25Km.13 Pilar- Bs.As. Argentina
 _____ RECERTIFIED _____ (Company Official) (Title) (Date) (Company) (Address)