



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

A 10 Day 10	Design Numbe	oer		Explosive We	night 22	am.	RDX	owder, Ca	ase Material_	Steel			
Service Company Available to all		-							200 hr				
Gun OD & Trade Name 4" Port Plug Gun, RDX Max. Tellip, "P 330 1" 555 5" 1" 255 2 1"													
Charge Name 4" ETA JET EL	(DSC 03-02-16)			Maximum Pressure Rating 20.000 psi, Carrier Material Steel									
Manufacturer Charge Part No. PG15RP	003	Shot Density Tested 4 Shots/ft											
Gun Type Port Plug Gun 4 SPF 90°	Gun Type Port Plug Gun 4 SPF 90°					Recommended Minimum ID for Running 5.00 in.							
·	g Order <u>X</u> Top	p Down,Bott	tom Up	Available Fir	ing Mode _		Se	lective,			ultaneous		
Debris Description N/A						N/A gm/charge, Debris					in ³ /charge		
	•												
RemarksSECTION 1 - CONCRETE TARGET													
	Materia 1=				API Grade,	Date	of Section 1	Test	March 10 th	¹ <u>200</u> 3			
Casing Data 5 ½" OD,	Weight 17				-				ount of Water 3006 lb.				
Target DataOD,	Amount of Cem				of Sand			•					
Date of Compressive Strength Test March 10 th 2003 , Briquette Compressive Strength 5762 psi, Age of Target 31 days													
Shot No.	No. 1 No.		No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	No. 10	No. 11			
Clearance, in	0,00 0.	0.892	0.405		0.405	0.892	0.405	0.00	0.405	0.892			
Casing Hole Diameter, Short Axis, in	0.385 0.	0.382 0.381	0.390		0.370	0.362	0.385	0.362	0.378	0.370			
Casing Hole Diameter, Long Axis, in.		0.383	0.395		0.401	0.390	0.392	0.382	0.394	0.372			
Average Casing Hole Diameter, in		0.386 0.382	0.393	0.414	0.386	0.376	0.389	0.372	0.386	0.371			
Total Depth, in		31.822	29.572		27.322	31.572	31.822	26.322	30.510	27.322			
Burr Height, in		0.092 0.066	0.055	0.028	0.041	0.085	0.050	0.047	0.049	0.030			
Shot No.		. 13 No. 14	No. 15	No. 16	No. 17	No. 18	No. 19	No. 20	No. 21	No. 22	Average		
Clearance, in	0.405 0.	0.405									0.394		
Casing Hole Diameter, Short Axis, in		0.383 0.372									0.379		
Casing Hole Diameter, Short Axis, in		0.385 0.377									0.390		
Average Casing Hole Diameter, in		0.384 0.375									0.385		
Total Depth, in		5.072 28.572									28.773		
Burr Height, in		0.034 0.052									0.052		
WITNESSING INFORMATION													
With and but With and but With and but William of All Smirnoff (API Certified										1 Certified)			
Date of Notice of Intent to Test:				•	Sight \$4	'oment V	Samalas A			Casing X			
Other Activities Witnessed: Target Pouring Briquette: Preparation Testing X Burr Height Measurement X Samples aken: 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.													
furnished to perforate a well to the burning attention of the American Petroleum Institute neither endorses these test results not recommends the use of the perforate system.													
V CERTIFIED BY	V CERTICIED BY OLD A TTAN Perforating Projects Manager 03/12/2003 Explosivos Tecnologicos Argentinos S.A. Huta 25km 13 Filat S.A.S. Argentina												
X CERTIFIED BY DYRIGHT BECKET	TALLANZIOIORIII	(Title)	(Date	te) (Company) (Address)						_			
RECERTIFIED GENERAL PERSONAL PROPERTY AND ADMINISTRATION OF THE PE	PROMY GROWING	(. ,	,,	-									