

Registered Data Sheet Perforating System Evaluation, API RP 19B Section 1

Value of the Control	Comonins to An Acquirements of Section	coden conscious or o		. 1								
25.	vice companies.	Manufactured by	EIASA	Max Temp of	9	9	gm, HMX	powder,	Case Mi	24 hr	100 hr	200 hr
Charge Name 25 grams HMX DP EXTrAI	S HMX DP EXTrAI	c		Maximum	Maximum Pressure Rating	20000	- 1	psi, Carrier	Carrier Material STEEL		1	
9		Date of Manufacture		Shot Density Tested	ty Tested 6					Shots/ft		
Gun Type High Shot Density Gun.	,			Recommen	Recommended Minimum ID for Running	ID for Runni	Po			9000000		j,
	Firing Order:	Top down x	x Bottom up		Available Firing Mode:			Selective X				Simultaneous
ion Cases a	ng tube debris ke	eps ins	5	Debris Weight	ght N/A		9	gm/charge, D	Debris N/A			in³/charge
Casing Data 4 1/2"	OD, We	Weight 11,6		lb/ft,	API Grade, L-80	8	Date of Secti	Date of Section 1 Test May 28th 2008	y 28th 2008			
		ment	26400	lb, A	Amount of Sand	52800		Ib,	Amount of Water	ater 13730		Ib.
pressive Strength Test	9th 200		Briquette C	Briquette Compressive Strength	rength 7186		psi,	Age of Target	Target 30			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.	0.000	0.138	0.450	0.625	0.450	0.138	0.000	0.138	0.450	0.625	0.450	
Casing Hole Diameter, Short Axis, in	0,390	0.390	0.380	0.400	0.370	0.390	0.380	0.370	0.360	0.390	0.410	
Casing Hole Diameter, Long Axis, in	0.400	0.410	0.400	0.420	0.380	0.420	0.430	0.390	0.400	0.400	0.420	
Average Casing Hole Diameter, in.	0.395	0,400	0.390	0.410	0.375	0.405	0.405	0.380	0.380	0.395	0.415	
Total Depth, in	42,750	47.250	47.250	42.500	44.250	45.750	40.750	39.250	42.250	44.250	LISO	
Burr Height, in	0.036	0.025	0.032	0.051	0.042	0.056	0.022	0.043	0.076	0.015	0.019	
Shot No.	No 12	12 No 13	No 14	No 15	No 16	No 17	No 18	No 19	No 20	No 21	No 22	Average
Clearance, in.	0.138	0.000	0.138	0.450	0.625							XXXXXX
Casing Hole Diameter, Short Axis, in	0.420	0.390	0.360	0.420	0.390							0.388
Casing Hole Diameter, Long Axis, in	0.430	0.420	0.380	0.430	0.400							0.408
Average Casing Hole Diameter, in.	0.425	0.405	0.370	0.425	0.395							0.398
Total Depth, in.	47.750	38.750	43.500	39.250	41.750							43.150
Burr Height, in	0.052	0.043	0.029	0.043	0.035							0.039
Manufacturer's Certification				7//	11							
Type of Certification:	Self	Jorge Smirrott API W Third Party	Third Party	Munico	The							
I certify that these tests were made according to the procedures as outlined in API 19B. Recommended Practice for Evaluation of Well Perforators, Second Edition, September 2006. 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 handom from stock and therefore will be substantially the same as the equipment that would be furnished to perforate a well for any operator. API neither endorses these tests	according to the charges detonal	procedures as or lor cord, etc., was	ures as outlined in API 19B. Recommended Practice for Evaluation of Well Perforators, Second Edition, September 2006. All of the equipment used 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, one will be substantially the same as the equipment that would be furnished to perforate a well for any operator. API neither endorses these tests	B: Recommer ment with our le same as the	nded Practice company for the	for Evaluation the use in the transport the transport to	n of Well Per e gun being to furnished to a	orators, Seco	nd Edition, S not changed all for any ope	eptember 200 I in any mann erator, API nei)6. All of the e er for the test ther endorses	Furthermore, these tests
CERTIFIED BY Dark B	Tanzio	Derforation D	Perforating Projects Manager	ner May	May 30th 2008	Ξ.	TASA		Ruta 25 H	(m 13- Villa Ro	sa - Buenos A	Ruta 25 Km 13- Villa Rosa - Buenos Aires - Argentina
	(dompany Official)		(Title)	- 1	(Date)		(Company)			(Address)	ess)	
Name of test as it should appear on we	ebsite: 3 3/8"	3 3/8" High Shot Density Gun ExTrA! With TC53H ExTrA! 25gi	nsity Gun Ex	TrA! With	TC53H Ex	TrA! 25gr	rams HMX DP	P				

Name of test as it appears on application and application date: 3 3/8" High Shot Density Gun ExTrA! With TC53H ExTrA! 25grams HMX DP