

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

API Form 19B-Section 1 ☑ Conforms to All Requirements of Section 1			☐ Special Test - See Remarks/Exceptions below							
Service Company Available	e to all from Hunting	n Hunting		Explosive weight15.0		gm, HMX powe		Material	Steel	
Gun OD & Trade Name 2-3/4" E	XP Gun, 6 SPF 60 Degree		Max Temp, °F	400	1 hr	r 3	hr	24 hr	100 hr	200 hr
Charge Name Charge, 2-3/4" 15G HMX SDP			Maximum Pres	Maximum Pressure Rating 23,000 psi, Carrier Material H.T. Steel						
Manufacturer Charge Part No. EXP-2715-423T Date of Manufacture 2 June 2009			Shot Density To	ested		6		Shots/ft		6
Gun Type Hollow Steel Carrier, Expendable (HC, E)			Recommended Minimum ID for Running				3.	.00		in.
Phasing Tested 60 degrees, Firing Order: x Top down Bottom up			Available Firing	g Mode:	X	X Selective		X		Simultaneous
Debris Description Small steel chips, usually retained in carrier			Debris Weight n/a		/a	gm/charge,	ge, Debrisn/			in³/charge
Remarks/Exceptions per Section 1.11										
Casing Data 4-1/2" OD,	D, Weight 11.6		lb/ft, API Grade, L-80		Date of S	Date of Section 1 Test		26 October 2009		
Target Data 84" OD,	Amount of Cement	8,272	lb, Amou	int of Sand	16,544	lb,	Amount of \	Water	4,336	lb.
Date of Compressive Strength Test 26	October 2009	Briquette Co	mpressive Streng	th 6,615	psi,	Age	of Target		28	days
Sharaki.										33,5
Shot No.	No 1 No 2 0.00 0.24	No 3		No 5 No 6	2 22.22.22	No 8	No 9	No 10	No 11	
Clearance, in. Casing Hole Diameter, Short Axis, in		0.86		0.86 0.24		0.24	0.86	1.25	0.86	
		0.37		0.42 0.38		0.43	0.39	0.30	0.42	· ·
Casing Hole Diameter, Long Axis, in Average Casing Hole Diameter, in		0.39		0.43 0.39		0.45	0.40	0.30	0.42	
Total Depth, in.	0.32 0.41	0.38		0.43 0.39		0,44	0.40	0.30	0.42	
Burr Height, in.		0.03		32.25 28.88 0.02 0.09		27.38 0.05	25.38 0.06	<u>36.25</u> 0.01	<u>16.63</u> 0.02	
buil Height, III.	0.04		0.02	0.09	0.00				0.02	
Shot No.	No 12 No 13	No 14	No 15	No 16 No 1	7 No 18	No 19	No 20	No 21	No 22	Average
Clearance, in.	0.24 0.00	0.24	0.86	1.25 0.86	0.24					XXXXXX
Casing Hole Diameter, Short Axis, in	0.40 0.32	0.40	0.41	0.30 0.38	0.38	_				0.37
Casing Hole Diameter, Long Axis, in	0.40 0.35	0.40	0.41	0.32 0.41	0.40					0.38
Average Casing Hole Diameter, in	0.40 0.34	0.40	0.41	0.31 0.40	0.39					0.38
Total Depth, in.	30.00 33.88	26.25	33.13 3	4.75 19.25	29.75					29.16
Burr Height, in.	0.06 0.06	0.07	0.04	0.01 0.04	0.06					0.05
Remarks										
Manufacturer's Certification										
Type of Certification: Self X Third Party API Witnesses: Jim Stout & Mona Elkhatib										
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 random 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 nor recommends the use of the perforator system described.										
CERTIFIED BY President, Hunting Titan 4-8-2014 143 HCR 4361, Milford, TX 76670, USA										
v RECERTIFIED (Company Official) (Title) (Date) (Company) (Address)										
	1500-01U			EXP-2715-42		.,,		madi	233/	
Name of test as it should appear on website:						2 20 00,000				
Name of test as it appears on application and application date: EXP-2715-423T, Charge, 2-3/4" 15G HMX SDP (Appl: 13 Aug 2009, revised 19 Oct 2009)										