

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

API Form 19B-Section 1			☐ Special Test - See Remarks/Exceptions below							
Service Company Available	Available to all from Hunting		Explosive weight 21.0		gm, HMX powd		der, Case Material		Steel	
Gun OD & Trade Name 3-1/8" EEG Gun, 4 SPF 60 Degree		Max Temp, °F 400		1 hr 3 h		nr 24 hr		100 hr	200 hr	
Charge Name 3-3/8" 21 Gm HMX SDP			Maximum Pressure Rating 7,500 psi, Carri				ier Material H.T. Steel			
Manufacturer Charge Part No. EXP-3321-421T Date of Manufacture 14 Aug 2009			Shot Density Tested4					Shots/ft -		4
Gun Type Hollow Steel Carrier, Expendable (HC, E)			Recommended Minimum ID for Running				3.58			in.
Phasing Tested 60 degrees, Firing Order: X Top down Bottom up			Available Firing N	Node:	X Selective		1 N	X		Simultaneous
Debris Description Small steel chips, usually retained in carrier			Debris Weight gm/charge, _ [ebris \	n/a		in³/charge
Remarks/Exceptions per Section 1.11						Δ.	100	C)		
and the second section of the section of t						17/1	(II -			
Casing Data 4-1/2" OD,	Weight	11.6	lb/ft, API Gr	ade,L-80	Date of Section	n Test		20 May 2	2010	11
Target Data 108" OD,	Amount of Cemen	9,130	lb, Amount	of Sand	18,260	11/10/20	Amount of Wa	ter	4,763	Ib.
ate of Compressive Strength Test 20 May 2010 Briquet		Briquette Co	ompressive Strength	6,320	psi, Age of Target		arget	28		days
g()			War and a second		7/ //	Ø.	42T-05E9		9000 0000	days
Shot No.	No 1 No 2	2000000	No 4 No		No 7	No 8	No 9	No 10	No 11	
Clearance, in.		0.00	0.18 0.6		0.62	0.18	0.00	0.18	0.62	
Casing Hole Diameter, Short Axis, in		0.36	0.46 0.4	711	0.46	0.43	0.39	0.44	0.45	
Casing Hole Diameter, Long Axis, in Average Casing Hole Diameter, in		0.38	0.49 0.4	31/2/11	0.48	0.44	0.40	0.47	0.49	
Total Depth, in.	0.47 0.40		0.48 0.4	77	0.47	0.44	0.40	0,46	0.47	
Burr Height, in.		<u>37.05</u> 0.04	43.75 45. 0.04 0.0	25 47.75	<u>47.55</u> 0.06	<u>44.55</u> 0.03	0.04	41.50 0.05	40.75	
but neight, III.	0.00	0.04	0.04	0.05		0.03	0.04	0.03	0.05	
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.	0.88 0.62	(0)								xxxxxx
Casing Hole Diameter, Short Axis, in	0.36 0.43	J. 15								0.42
Casing Hole Diameter, Long Axis, in	0.38 0.44	-54								0.44
Average Casing Hole Diameter, in	0.37 0.44	0117								0.43
Total Depth, in.	33.75 43.25									42.13
Burr Height, in.	0.04 0.06									0.05
Remarks	75	Shot #1 ro	tated 240 degrees.	Tested with twister	ed strip charge tube),				
Manufacturer's Certification	(5)6									
		2.772								
Type of Certification: X Seli	<u> </u>	_Third Party								
I certify that these tests were made according										
in these tests, such as the guns, jet charges de the equipment was chosen at random from sto	etonator cord, etc., w	as standard equipm	ent with our compa	any for the use in	the gun being tes	ted and was i	not changed i	n any manne	r for the tes	t. Furthermore,
nor recommends the use of the perforator syst		be substantially the	same as the equip	ment that would	be turnished to pe	errorate a well	for any opera	tor. API neitr	er endorse	s these tests
				1/0/20	1		440 110	2 4004 M	(T)	70070 1104
CERTIFIED BY	e de la	President, Hu		9/8/201	9		143 HCF			76670, USA
RECERTIFIED / (Company Of		, ,	(Date)		(Company)			(Addre	SS)	
Name of test as it should appear on website: 3.13-in. EEG 4 SPF w/ SDP EXP-3321-421T										
Name of test as it appears on application and applic	cation date:									