

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 to all from Hunting			Explosive	weight	23	gm, HMX			Case Material Steel			
Gun OD & Trade Name 3-1/8" EXP Gun, 6 SPF 60 Degree			Max Tem		400			nr <u>330</u> 2		100 hr	200 hr	
Charge Name Charge 3-3/8" 23G HMX				Maximum Pressure Rating 20,000 psi, Carrier Material H.T. Steel								
Manufacturer Charge Part No. EXP-3323-471T Date of Manufacture 18 February 2014				sity Tested					Shots/ft .		6	
Gun Type Hollow Steel Carrier, Expendable (HC, E)			Recommended Minimum ID for Running					3.8			in.	
Phasing Tested 60 degrees, Firing Order: x Top down Bottom up			Available Firing Mode:			X	- selective				Simultaneous	
Debris Description Small steel chips, usually retained in carrier			Debris W	eight			gm/charge, Debrisn/a				in³/charge	
Remarks/Exceptions per Section 1.11				Special ca	sing used. 4	-1/2" 13.5# P-11	0	7/1/2				
Casing Data 4 1/2" OD, We	eight 13.5	5	lb/ft,	API Grade,	P-110	Date of Sect	ion 1 Test_	111 -	18 June	2015		
Casing Data	nount of Cement	6,204	lb,	Amount of Sar	d	12,408	lb,	Amount of W	ater	3,250	lb.	
Date of Compressive Strength Test 17 Jun	MONO A PROPERTY OF THE CONTRACT DATE OF THE OFFICE OF THE CONTRACT DATE OF THE CONTRACT DATE OF THE CONTRACT DATE OF THE CONTRACT DATE	Briquette Co	mpressive S	Strength	6,460	psi,	Age	of Target	2	28	days	
							D		11 10	No. 11	•	
Shot No. No		No 3	No 4	No 5	No 6	No 7	No 8	No 9	No 10	No 11		
Clearance, in	0 0.15	0.41	0.52	0.41	0.15	0.00	0.15		0.52	0.41		
Casing Hole Diameter, Short Axis, in 0.3		0.38	0.37	0.40	0.42	0.39	0.40		0.37	0.39		
Casing Hole Diameter, Long Axis, in 0.3	0.42	0.38	0.38	0.41	0.42	0.42	0.41		0.38	0.40		
Average Casing Hole Diameter, in 0.3	8 0.40	0.38	0.38	0.41	0.42	0.41	0.41		0.38	0.40		
Total Depth, in 30.		17.79	29.79	25.29	21.59	22.59	26.59	<u>31.79</u> 0.08	0.06	<u>16.76</u> 0.04		
Burr Height, in	0.07	0.06	0.07	0.04	0.07	0.10	0.07	0.08		0.04		
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	0.00	0.15	0.41	0.52	0.41	0.15					XXXXXX	
Casing Hole Diameter, Short Axis, in 0.4	10 0.39	0.40	0.39	0.37	0.38	0.41			-		0.39	
Casing Hole Diameter, Long Axis, in 0.4	0.40	0.40	0.40	0.39	0.38	0.41					0.40	
Average Casing Hole Diameter, in. 0.4	10 0.40	0.40	0.40	0.38	0.38	0.41					0.40	
Total Depth, in	09 24.59	16.79	24.29	34.09	28.09	20.29					24.75	
Burr Height, in 0.0		0.07	0.07	0.08	0.02	0.11					0.07	
Remarks												
Manufacturer's Certification												
Type of Certification: X Self Third Party												
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	procedures as outline	od in ADI 10D	Pecomm	ended Practic	for Evaluat	tion of Well Per	forators. Se	cond Edition. S	September 200	6. All of the	equipment used	
the equipment was chosen at random from stock a	nd therefore will be suit	stantially the	same as t	he equipment	that would b	be furnished to	perforate a	well for any ope	erator. API nei	ther endorse	es these tests	
nor recommends the use of the perforator system of	escribed.											
v CERTIFIED BY	President		15 July 2015			Hunting Titan		143 H	143 HCR 4361, Milford, TX			
RECERTIFIED (Company Official)	(Title)		(Date)		(Company)			(Address)				
Name of test as it should appear on website:	3.1	8-in. EXP	6 SPF w	v/ EXP-332	3-471T							
Waster III was a second of the	4-1-											
Name of test as it appears on application and application	date:								×			