

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				Explosiv	e weight	22.7	gm, HMX	powde	er, Case N	Material	Stee	əl	
Gun OD & Trade Name 3-1/8" EXP Gun, 6 SPF 60 Degree					Max Ter	np, °F	400	1 hr	31	hr	24 hr	100 hr	200 hr	
Charge Name 3-3/8" 22.7 Gm HMX SDP					Maximum Pressure Rating 20,000 psi, Car					ier Material		H.T. Steel		
Manufacturer Charge Part No. EXP-3323-423T Date of Manufacture 06 Aug 2009					Shot Density Tested6						- Shots/ft		6	
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 Mode: X Selective				Selective	· ^ \ \ X			Simultaneous	
Debris Description Small	steel chip	s, usually r	etained in car	rier	Debris V	Veight	n/a	g	m/charge,	Debris	n/a		in ³ /charge	
Remarks/Exceptions per Section 1.11									~	1/2/	10			
nemarks, exceptions per section 1111									2018	1 11				
Casing Data 4-1/2"	OD, Weight 11.6			11.6	lb/ft, API Grade, L-80			Date of Sect	ion 1 Test	24 March 2010				
Target Data 108"	OD,	Amount	of Cement	7,214	lb,	Amount of Sar	nd	14,428	1 lb, ~	Amount of V	Vater	3,756	1	
Date of Compressive Strength Test		March 20	110	Briquette Co	mpressive	mpressive Strength		psi,	Age	of Target	28			
								7/ ///	7				day	
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.		0.00	0.18	0.62	0.88	0.62	0,18	0.00	0.18	0.62	0.88	0.62		
Casing Hole Diameter, Short Axis, in		0.37	0.39	0.48	0.49	0.50	0.43	0.37	0.39	0.48	0.50	0.50		
Casing Hole Diameter, Long Axis, in		0.39	0.40	0.49	0.49	0:53	0.45	0.38	0.40	0.50	0.52	0.53		
Average Casing Hole Diameter, in.		0.38	0.40	0.49	0.49	0:52	0.44	0.38	0.40	0.49	0.51	0.52		
Total Depth, in			40.25	46.63	40.00	38.75	41.50	39,25	43.75	42.25	37.75	41.25		
Burr Height, in.		0.05	0.06	80.0	0.07	0.06	0.06	0.07	0.07	0.06	0.05	80.0		
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.		0.18	0.00	0.18	0.62	0.88	0.62	0.18					xxxxxx	
Casing Hole Diameter, Short Axis, in		0.44	0.37	0.37	0.49	0.50	0.51	0.46					0.45	
Casing Hole Diameter, Long Axis, in		0.45	0.39	0.38	0.50	0.51	0.51	0.47					0.46	
Average Casing Hole Diameter, in.			0,38	0.38	0.50	0.51	0.51	0.47					0.46	
Total Depth, in.		41.63	45,38	39.75	34.88	40.75	41.25	40.75					41.17	
Burr Height, in.		0.06	0.07	0.08	0.06	0.06	0.07	0.05					0.06	
Remarks		77	7				-							
Manufacturer's Certification	1	(2)	5											
	1 6		_											
Type of Certification:	Self	9 —	Th	nird Party										
I certify that these tests were made	according t	to the proce	edures as outl	ined in API 19B:	Recomm	ended Practice	for Evalua	tion of Well Perf	orators, Sec	ond Edition, S	eptember 200	6. All of the	equipment use	
in these tests, such as the guns, jet	charges de	etonator co	rd, etc., was s	tandard equipm	ent with o	ur company for	the use in	the gun being te	sted and wa	as not changed	in any mann	er for the tes	st. Furthermore	
the equipment was chosen at rando nor recommends the use of the perf	m from sto	ck and ther	refore will be s	substantially the	same as t	he equipment	that would i	be furnished to p	erforate a v	vell for any ope	erator. API nei	ther endorse	s these tests	
	1 Syst	em describ				/	10/-	1						
CERTIFIED BY President, Hun										143 HCR 4361, Milford, TX 76670, USA				
x RECERTIFIED (Company Official) (Title)					(Date) (Company)					(Addr	ess)			
Name of test as it should appear on we	bsite:		3.13	-in. EXP 6 S	SPF w/ S	SDP EXP-3	323-423	Γ						
Name of test as it cannot as a series	o and and	antion data												
Name of test as it appears on application	n and applic	cation date:												