

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 Hunting Titan, Inc Explosive weight 45 gm HMX Powder, Case Material Steel

Gun OD & Trade Name 4.5in EXP Gun, SSPF 90 Degree Max Temp, °F 400 1 hr 100 hr 200 hr

Charge Name 4" 45G HMX SDP Maximum Pressure Rating 17,500 psi, Carrier Material H.T. Steel Shots/ft

Manufacturer/Change Part No. EXP-4045-421T Date of Manufacture 10/28, 10/29, 11/1 2021 Shot Density Tested 5 Recommended Minimum ID for Running 4.92 in.

Gun Type Hollow Steel Carrier, Expendable Available Firing Mode: X Selective X Simultaneous

Phasing Tested 90 degrees, Firing Order: X Top down Bottom up

Debris Description Steel Flakes

Remarks/Exceptions per Section 1.12 _____

Casing Data	Tin	Weight	32	lb/ft	API Grade	L80	Date of Section 1 Test	December 14th 2021
Target Data	162in	00	Amount of Cement	31,735	Amount of Sand	63,455	Date of Section 1 Test	December 14th 2021
Date of Compressive Strength Test	12/14/2021		Briquette Compressive Strength	5,538	psi	Age of Target	28	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	Average
Clearance, in.	DQ	DQ	0.92	0.80	0.68	0.80	0.92	0.80	0.68	0.80	0.92	0.38
Casing Hole Diameter, Short Axis, in	DQ	DQ	0.40	0.38	0.40	0.38	0.36	0.37	0.36	0.36	0.35	0.38
Casing Hole Diameter, Long Axis, in	DQ	DQ	0.42	0.42	0.42	0.41	0.36	0.38	0.40	0.37	0.36	0.40
Average Casing Hole Diameter, in.	DQ	DQ	0.41	0.40	0.41	0.40	0.36	0.38	0.38	0.37	0.36	0.39
Total Depth, in.	DQ	DQ	56.70	63.95	63.70	64.70	62.45	65.70	63.45	69.45	69.95	60.59
Burr Height, in.	DQ	DQ	0.07	0.04	0.06	0.08	0.04	0.05	0.08	0.05	0.04	0.05
Remarks:	Above data witnessed by API auditor. Shot #1 and #2 disqualified due to burr height <1/2in from top of poured target.											

Witnessed by: Francisco Ollerivides Date of Witness: 12/14/2021

WITNESSING INFORMATION

Optionally Witnessed Activities: Target Pouring _____ Briquette Preparation _____ Briquette Testing _____ X _____ Burr Height Measurements _____ X _____

I certify that these tests were made according to the procedures as outlined in API RP 19B, Recommended Practices for Evaluation of Well Perforators, Third Edition, October 2014. All of the equipment used in these tests, such as the guns, shaped charges, detonating 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. Further more, the equipment was chosen at random from stock and therefore will be substantially the same as the equipment, which would be furnished to perforate a well for any operator. API neither endorses these test results nor recommends the use of the perforator system described.

Penetration data recorded in API RP19B Section 1 may not directly correlate to penetration downhole.

CERTIFIED BY Chris Sokolove Energetics Plant Manager 12/14/2021 Hunting Titan, Inc. 143 HCR 4361, Milled, TX 76670

(Company Official) (Title) (Date) (Company) (Address)

Name of test as it should appear on website: 4.50" EXP Gun, SSPF, 90 Degree with Charge 4", 45G, HMX, SDP

Name of test as it appears on application and application date: 4.50" EXP Gun, SSPF 90 Degree with Charge 4" 45G HMX SDP (12/14/2021)

Figure 2-Data Sheet- Perforating System Evaluation, API RP 19B Section 1