



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 16 gm, RDX powder, Case Material Steel

Gun OD & Trade Name 2-3/4" EXP Gun, 6 SPF 60 Degree Max Temp, °F 400 1 hr 375 3 hr 330 24 hr 300 100 hr 200 hr

Charge Name Change 2-3/4" 16G RDX Maximum Pressure Rating 23,000 psi, Carrier Material H.T. Steel

Manufacturer Charge Part No. EXP-2716-371T Date of Manufacture 22 June 2015 Shot Density Tested 6

Gun Type Hollow Steel Carrier, Expendable (HC, E) Recommended Minimum ID for Running 3.00 Shots/ft 6

Phasing Tested 60 degrees, Firing Order: X Top down Bottom up Available Firing Mode: X Selective X Simultaneous

Debris Description Small steel chips, usually retained in carrier Debris Weight n/a gm/charge, Debris n/a in³/charge

Remarks/Exceptions per Section 1.11 Special casing used: 4-1/2" 13.5# P-110

Casing Data 4-1/2" OD, Weight 13.5 lb/ft, API Grade, P-110 Date of Section 1 Test 28 July 2015

Target Data 66 OD, Amount of Cement 3.102 lb, Amount of Sand 5.690 psi, Age of Target 28 days

Date of Compressive Strength Test 7 July 2015 Briquette Compressive Strength 5.690 psi

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.	0.00	0.20	0.78	1.17	0.78	0.20	0.00	0.20	0.78	1.17	0.78	XXXXXX
Casing Hole Diameter, Short Axis, in	0.29	0.32	0.32	0.29	0.34	0.33	0.30	0.31	0.34	0.29	0.34	0.32
Casing Hole Diameter, Long Axis, in	0.30	0.33	0.33	0.29	0.35	0.34	0.30	0.33	0.35	0.29	0.34	0.32
Average Casing Hole Diameter, in.	0.30	0.33	0.33	0.29	0.35	0.34	0.30	0.32	0.35	0.29	0.34	0.32
Total Depth, in.	30.54	29.29	28.54	31.29	29.29	23.79	24.54	18.29	30.79	19.54	23.54	25.79
Burr Height, in.	0.05	0.03	0.01	0.06	0.04	0.02	0.05	0.04	0.02	0.09	0.03	0.03
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.	0.20	0.00	0.20	0.78	1.17	0.78	0.20	0.20	0.78	1.17	0.78	XXXXXX
Casing Hole Diameter, Short Axis, in	0.33	0.31	0.31	0.34	0.29	0.34	0.33	0.34	0.34	0.33	0.33	0.32
Casing Hole Diameter, Long Axis, in	0.33	0.31	0.31	0.35	0.29	0.34	0.34	0.33	0.35	0.29	0.34	0.32
Average Casing Hole Diameter, in.	0.33	0.31	0.31	0.35	0.29	0.34	0.34	0.33	0.35	0.29	0.34	0.32
Total Depth, in.	22.29	27.29	23.29	24.29	26.29	27.79	23.54	23.54	23.79	23.54	23.54	25.79
Burr Height, in.	0.00	0.02	0.04	0.01	0.06	0.03	0.00	0.00	0.03	0.00	0.00	0.03

Manufacturer's Certification

Type of Certification: X Self Third Party

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 (Signature) President 5 August 2015 (Date) Hunting Titan (Company)

143 HCR 4361, Milford, TX 76670, USA (Address)

RECEIVED BY (Signature) (Company)

Name of test as it should appear on website: 2.75in. EXP 6 SPF w/ EXP-2716-371T

Name of test as it appears on application and application date: _____