



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 OWEN OIL TOOLS Explosive weight 21.5 gm, RDX powder, Case Material STEEL
 Gun OD & Trade Name 3.3/8" OD 6SPF DP 60DEG TAG Max Temp, °F 330 1 hr 3 hr 3 hr Carrier Material STEEL 24 hr 100 hr 200 hr
 Charge Name PERF 3-3/8 IN TAG SDP NT RDX - HERO (SDP-3375-311NT) Maximum Pressure Rating 20,000 psi, Shot Density Tested 3.80 Shots/ft
 Manufacturer Charge Part No. SDP-3375-311NT Date of Manufacture 4-8-2009 Recommended Minimum ID for Running 3.80 in.
 Gun Type SCALLOPED, RETRIEVABLE EXPENDABLE HOLLOW CARRIER Available Firing Mode: X Selective X Simultaneous
 Phasing Tested 60 degrees, Firing Order: X Top down X Bottom up Debris Weight N/A gm/charge, Debris N/A in³/charge
 Debris Description SMALL STEEL PIECES Remarks/Exceptions per Section 1.11 HIGH TEMP VERSION AVAILABLE AS SDP-3375-411NT AND SDP-3375-511NT

Casing Data 4.50" OD, Weight 11.6 lb/ft, API Grade, L-80 Date of Section 1 Test 5-11-2009
 Target Data 96" OD, Amount of Cement 16,920 lb, Amount of Sand 33,840 lb, Amount of Water 8,725.6 lb.
 Date of Compressive Strength Test 5-11-2009 Briquette Compressive Strength 6,257 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.	0.14	0.45	0.83	0.45	0.14	0.00	0.14	0.45	0.83	0.45	0.14	0.43
Casing Hole Diameter, Short Axis, in	0.44	0.44	0.38	0.44	0.39	0.48	0.41	0.43	0.39	0.45	0.41	0.41
Casing Hole Diameter, Long Axis, in	0.46	0.44	0.39	0.46	0.43	0.50	0.42	0.44	0.42	0.46	0.42	0.42
Average Casing Hole Diameter, in.	0.45	0.44	0.39	0.45	0.41	0.49	0.42	0.44	0.41	0.46	0.42	0.42
Total Depth, in.	31.25	34.75	37.75	37.60	37.55	31.55	33.75	35.25	37.25	39.75	33.95	33.95
Burr Height, in.	0.06	0.05	0.04	0.07	0.05	0.07	0.06	0.07	0.04	0.03	0.06	0.06
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	0.14	0.45	0.83	0.45	0.14	0.00	0.45	0.83	0.45	0.14	0.43
Casing Hole Diameter, Short Axis, in	0.47	0.45	0.41	0.38	0.41	0.45	0.42	0.43	0.39	0.45	0.41	0.44
Casing Hole Diameter, Long Axis, in	0.48	0.46	0.42	0.39	0.43	0.47	0.44	0.44	0.42	0.46	0.42	0.44
Average Casing Hole Diameter, in.	0.48	0.46	0.42	0.39	0.42	0.46	0.43	0.43	0.42	0.44	0.42	0.44
Total Depth, in.	32.55	37.25	31.50	34.25	33.25	31.50	29.25	32.25	37.25	39.75	34.11	34.11
Burr Height, in.	0.06	0.02	0.03	0.08	0.06	0.05	0.05	0.05	0.04	0.03	0.06	0.06

Manufacturer's Certification

Type of Certification: 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 *Alan J. ...* (Company Official) 5-21-2009 (Date) OWEN OIL TOOLS (Company) 12001 County Road 1000 Godley, TX, USA 76044 (Address)
 RECERTIFIED _____ (Company Official) _____ (Date) _____ (Company) _____ (Address)

Name of test as it should appear on website: 3 3/8" OD, TAG, 6 SPF, 60 deg, 21.5g, NT (SDP-3375-311NT)

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