CERTIFICATION DATA SHEET **3-1/8" OD 6 SPF S.D.P. 60 TAG**

API FORM 43F **PERFORATING SYSTEM EVALUATION, RP 43, SECTIONS 1 AND 2** **TAG-3375-302**

Service Company: AVAILABLE TO ALL FROM OWEN OIL TOOLS
Explosive Weight: 23 gm, RDX powder, Case Material: STEEL
Gun OD & Trade Name: 3-1/8" OD 6 SPF S.D.P. TAG
Max. Temp, F: 330 1 hr 315 3 hr 275 24 hr 240 100 hr ____ hr
Charge Name: PERF - 3-3/8" TAG SDP HERO
Maximum Pressure Rating: 20,000 psi, Carrier Material: OWEN SPEC. STEEL
Manufacturer Charge Part No.: SDP-3375-311NT Date of Manufacture: 8/17/2008
Shot Density: 6 shots/ft
Gun Type: EXPENDABLE, RETRIEVABLE, HOLLOW STEEL CARRIER (THROW AWAY GUN - TAG)
Recommended Minimum ID for Running: 3.63 in.
Phasing Tested: 60 degrees, Firing Order: X Top down, X Bottom up
Available Firing Mode: X Selective, X Simultaneous.
Debris Description: SMALL STEEL PIECES
Debris Weight: NA gm/charge, Debris: NA in.3/charge
Remarks:

SECTION 1 - CONCRETE TARGET

Casing Data: 4-1/2" OD, Weight: 11.6 lb/ft, L-80 API Grade, Date of Concrete Test: 10/5/2008
Target Data: 96 OD, Briquet Compressive Strength: 5238 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	
Clearence, in.	0.00	0.18	0.62	0.88	0.62	0.18					
Casing Hole Diameter, Short Axis, in.	0.46	0.43	0.42	0.39	0.43	0.42					
Casing Hole Diameter, Long Axis, in.	0.45	0.43	0.42	0.38	0.43	0.42					
Average Casing Hole Diameter, in.	0.46	0.43	0.42	0.39	0.43	0.42					
Total Depth, in.	37.73	35.53	36.80	34.01	33.50	36.04					
Burr Height, in.	0.01	0.05	0.05	0.06	0.03	0.04					

Shot No.	No. 11	No. 12	No. 13	No. 14	No. 15	No. 16	No. 17	No. 18	No. 19	No. 20	Average
Clearence, in.											
Casing Hole Diameter, Short Axis, in.											0.43
Casing Hole Diameter, Long Axis, in.											0.42
Average Casing Hole Diameter, in.											0.42
Total Depth, in.											35.60
Burr Height, in.											0.05

Remarks:

SECTION 2 - HARD ROCK CORE TARGET

Compressive Strength, ____
Density ASTM C 97, ____
Date of Hard RockTest ____

Shot No.	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	Average
Faceplate Hole Diameter, Short Axis, in.							
Faceplate Hole Diameter, Long Axis, in.							
Average Faceplate Hole Diameter, in.							
Total Depth, in.							

CERTIFICATION

Type of Certification: [X] Self [ ] Third Party

I certify that these tests were made according to the procedures as outlined in RP 43: Recommended Practices for Evaluation of Well Perforators, Fifth Edition, January 1991. All of the equipment used in these tests, such as the guns, jet charges, detonator cord,etc., was standard with our company for use in the gun being tested, and was not changed in any manner for the test. Furthermore, the equipement was chosen at random from stock and therefore will be substantially the same as the equipement which would be furnished to perforate a well for any operator.

X	CERTIFIED BY	DAN W. PRATT	VICE PRESIDENT - ENGINEERING	5-Oct-06	OWEN OIL TOOLS, INC , 12001 CR 1000, GODLEY, TX, USA	
	RECERTIFIED	(Company Officer)	(Title)	(Date)	(Company)	(Adress)