American Petroleum Institute

REGISTERED DATA SHEET PERFORATING SYSTEM EVALUATION, API RP 19B SECTION 1

Service Company: AVAILABLE TO ALL FROM OWEN OIL TOOLS
Explosive Weight: 23.0 gm, HMX powder, Case Material: STEEL
Gun OD & Trade Name: 4 ½" OD 12SPF DP 135/45 TAG
Max. Temp, °F: 330 1 hr ____ 3 hr ____ 24 hr ____ 100 hr ____ 200 hr
Charge Name: PERF – 3 3/8" TAG SDP NT RDX
Maximum Pressure Rating: 18,000 psi, Carrier Material: STEEL
Manufacturer Charge Part No.: SDP-3375-311NT Date of Manufacture: 17-AUG-2006
Shot Density Tested: 12 Shots/ft
Gun Type: SCALLOPED, RETRIEVABLE EXPENDABLE HOLLOW CARRIER
Recommended Minimum ID for Running: 5.675 in.
Phasing Tested: 135/45 degrees, Firing Order: X Top Down, X Bottom Up
Available Firing Mode: X Selective, X Simultaneous
Debris Description: SMALL STEEL PIECES
Debris Weight: N/A gm/charge, Debris: N/A in^3/charge
Remarks: HMX VERSION AVAILABLE AS SDP-3375-411NT

SECTION 1 - CONCRETE TARGET

Casing Data: 7" OD, Weight: 32 lb/ft, L-80 API Grade, Date of Section 1 Test: 4-19-2007
Target Data: 84" OD, Amount of Cement: 9,518 lb., Amount of Sand: 19,035 lb., Amount of Water: 4983.7 lb.
Date of Compressive Strength Test: 4-19-2007, Briquette Compressive Strength: 6839 psi, Age of Target: 29 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	
Clearance, in.	1.59	0.18	0.69	1.31	0.00	1.31	0.69	0.18	1.59	0.18	0.69	
Casing Hole Diameter, Short Axis, in.	0.27	0.42	0.33	0.31	0.46	0.28	0.42	0.42	0.25	0.38	0.29	
Casing Hole Diameter, Long Axis, in.	0.28	0.43	0.33	0.32	0.47	0.29	0.45	0.43	0.25	0.39	0.32	
Average Casing Hole Diameter, in.	0.28	0.43	0.33	0.32	0.47	0.29	0.44	0.43	0.25	0.39	0.31	
Total Depth, in.	28.82	27.44	29.19	31.94	25.44	29.44	30.19	33.69	22.44	28.94	27.69	
Burr Height, in.	0.06	0.06	0.05	0.02	0.09	0.04	0.07	0.05	0.03	0.08	0.05	

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.	1.31	0.00	1.31	0.69	0.18	1.59	0.18					XXX
Casing Hole Diameter, Short Axis, in.	0.31	0.41	0.26	0.42	0.43	0.26	0.43					0.35
Casing Hole Diameter, Long Axis, in.	0.32	0.42	0.28	0.43	0.44	0.27	0.45					0.37
Average Casing Hole Diameter, in.	0.32	0.42	0.27	0.43	0.44	0.27	0.44					0.36
Total Depth, in.	33.19	21.44	30.94	32.94	26.44	32.44	30.44					29.06
Burr Height, in.	0.03	0.08	0.03	0.06	0.07	0.07	0.06					0.06

WITNESSING INFORMATION

Date of Notice of Intent to Test: March 22, 2007
Witnessed by: Truda Stevens
Other Activities Witnessed: Target Pouring ____ Briquette: Preparation ____ Testing ____ Burr Height Measurements ____ Samples Taken: Concrete X Casing X

CERTIFICATION

I certify that these tests were made according to the procedures as outlined in API RP 19B: Recommended Practices for Evaluation of Well Perforators, First Edition, November 2000. 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, which would be furnished to perforate a well for any operator. The American Petroleum Institute neither endorses these test results nor recommends the use of the perforator system described.

X CERTIFIED BY / ____ RECERTIFIED — Daniel Stalt (Company Official) — VICE PRESIDENT – ENGINGEERING (Title) — 1/28/08 (Date) — OWEN OIL TOOLS (Company) — 12001 County Road 1000 Godley, TX, USA 76044 (Address)