energy API

DUAL STRING DATA SHEET PERFORATING SYSTEMS EVALUATION, Special Test (API RP 19B Section 1 with Exceptions)

Service Company _____ Explosive Weight _____ gms Type _____ Case Mat. _____

Gun O.D. and Trade Name _____ Max Temp F: 1 hr. _____ 3 hr. _____ 24 hr. _____ 100 hr. _____

Charge Name _____ Max Pressure Rating _____ psi Gun Mat. steel

Manufacturer Charge Part Number _____ Date of Mfg. _____ Shot Density Tested _____ shots/ft.

Gun Type _____ Recommended Minimum I.D. for Running _____ in.

Phasing _____ Degrees Firing Order: _____ Top Down _____ Bottom Up Available Firing Mode: _____ Selective _____ Simultaneous

Remarks: _____

SECTION 1 - DUAL STRING CONCRETE TARGET INFORMATION

Casing No. 1 _____ O.D. Wt. _____ lb./ft. API Grade _____ Target Diameter _____ in. Amount of Cement _____ lb.

Casing No. 2 _____ O.D. Wt. _____ lb./ft. API Grade _____ Amount of Sand _____ lb. Amount of Water _____ lb.

Date of Test _____ Target Age _____ days Casing Annulus Material water Briquette Test Date _____ psi _____

Note 1-Special Tests allowable exceptions: Dual string casing is allowed in this target. The casings may be other than those listed in Table 2. Casing annulus material may be other than cement.

TEST DATA

Shot Number	No. 1		No. 2		No. 3		No. 4		No. 5		No. 6		No. 7		No. 8		No. 9	
Casing Number	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
Water CL / Casing Annulus, in.																		
Casing Hole Dia, Short Axis, in.																		
Casing Hole Dia, Long Axis, in.																		
Average Casing Hole Dia, in.																		
Total Penetration Depth, in.																		
Burr Ht. in Casing Number 1, in.																		

Shot Number	No. 10		No. 11		No. 12		No. 13		No. 14		No. 15		No. 16		No. 17		No. 18		Average	
Casing Number	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
Water CL / Casing Annulus, in.																				
Casing Hole Dia, Short Axis, in.																				
Casing Hole Dia, Long Axis, in.																				
Average Casing Hole Dia, in.																				
Total Penetration Depth, in.																				
Burr Ht. in Casing Number 1, in.																				

MANUFACTURER'S CERTIFICATION

I certify that these tests were made according to the procedures as outlined in API 19B: Recommended Practices for Evaluation of Well Perforators, Second Edition, September 2006 with the allowable exceptions as listed in Note 1. All of the equipment used in these tests, such as guns, jet charges, detonator cord, etc., was standard equipment with our company for use in the gun being tested and was not changed in any manner. 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. API neither endorses these test results nor recommends the use of the perforator system described.

_____ CERTIFIED BY:

_____ RECERTIFIED BY: _____ _____ _____ _____ _____

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

Name of test as it should appear on website: _____

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