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API RP 19B Section I Perforator System Registration Witness Registration

REVISION 3 | FM-3030

WITNESS USE ONLY

Total Number of Tests Witnessed: _____

Total Number of Days: _____

Witness Name: _____

Witness Signature: _____

Date: _____

Company Representative Name: _____

Signature: _____

Date: _____

Facility Name: _____

Facility ID: _____



API
Perforator
Design™
Registration

API Witness Report - Perforator Witness Registration

General Information

1-Testing Company	2-Perforating System Description (Include gun and charge name)	3-Test Location (City, State, Country)
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1. CHARGE SELECTION – Mandatory activity to witness, API RP 19B, Section 4.1.4

1-Date	2-Location (If different from test location)	3-Charge Description	4-Charge Part #	5-Date Shift Code
6-Quantity of Charges Available for Selection Process (# boxes, charges/box, etc.) (Minimum required is 300)				
7-Quantity of Charges Selected (Describe how selected, ex. 4 from box 001, 4 from box 006, etc. Also indicate how many selected for gun, and how many for QC shots)				
8-Sealing of Selected Charges (Describe how sealed and marked, for reference by witness of gun loading & QC shot; ex. all selected charges placed inside new charge box, QC charges labeled w/ blue "QC" written on case, box taped shut with witnesses' signature and date on tape)				
9-Miscellaneous comments on Charge Selection (including #16 and #17)				

Witness Information

10-Name	11-Company	12-Signature	Date
13-Name	14-Company	15-Signature	Date

2. GUN LOADING – Mandatory activity to witness, API RP 19B, Section 4.1.3

1-Date	2-Gun Description	3-Gun OD	4-Phasing	5-Shot Density (spf)	6-# of Charges Loaded
7-Hardware Verified as Standard Field Equipment? (Y / N) How Verified? (Describe reference material for verification; ex. Field Catalog, Engineering File, etc. List which components were verified. At minimum, include carrier, adapters, and detonating cord. If gun to be positioned for test, standoff adapters should be verified)					
8-Scallop Depth Verified? (Y / N)	9-Scallop Diameter Verified? (Y / N)	10-Gun ID Verified? (Y / N)	11-OD of Standoff Hardware (measured over fins):		
12-Detonating Cord Description:					
13-Describe how charges verified to be same as those selected by witness? (Either charge selection done at same time as gun loading and in sight all time since selected, or seal / marking must match description in Charge Selection Section.)					
14-Loaded interval marked on outside of gun? (Y / N) How marked? (At minimum, top shot should be marked for verification of gun orientation at time of test)					
15-If gun loaded before test date, gun must be sealed to prevent tampering. Describe how sealed for reference by test witness. (Ex. Clear packing tape over top and bottom adapter-carrier connection with all witnesses signatures on tape)					
16-Miscellaneous comments on Gun Loading					

Witness Information

17-Name	18-Company	19-Signature	Date
20-Name	21-Company	22-Signature	Date

API Witness Report - Perforator Witness Registration

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3. GUN FIRING / DATA COLLECTION – Mandatory activity to witness, API RP 19B, Sections 4.1.8, 4.1.9 and 4.1.10

1-Date	2-Target Diameter	3-Casing Diameter	4-Casing Wall
5-Casing (verify that the casing used in the construction of the target meets the reported grade and weight)			
6-Steel form or culvert Witness must verify and record that steel form or culvert remains intact during test (Y / N)			
7-Describe how gun verified to be same as one witnessed loaded? (Either gun in sight all time since loading, or seal / marking must match description in Gun Loading Section.)			
8-Minimum gun-casing standoff	9-Top-shot oriented with minimum standoff? (Y / N)	10-Casing full of water? (Y / N)	11-Distance – Top of target to top shot (must be greater than 12 in.)
12-Penetration Measurements (Witness all measurements recorded)			
13-EH Measurements (Witness all measurements recorded)			
14-Completed datasheet provided? (Y / N)			
15-Miscellaneous comments on Gun Firing / Data Collection			

Concrete Slurry Information

16-Date poured	17-Amount of cement (include unit of measure)	18-Amount of sand (include unit of measure)	19-Amount of water (include unit of measure)
20-Sand / Cement Ratio (Divide amount of sand by amount of cement. Specification is between 2.02 and 1.98)			
21-Water / Cement Ratio (Divide amount of water by amount of cement. If water amount given in gallons, multiply by 8.34 (lb/gal) to get amount water in lbs. Specification is between 0.5252 and 0.5148). Must be documented as 4 decimal points, ex: 0.xxxx			
22-Cement Type (Verify cement conforms to API Class A or Type 1)		23-Frac Sand (Verify that the 16-30 Frac Sand conforms to specification API RP19C 1st edition by reviewing the documentation provided by the supplier.)	

Witness Information

24-Name	25-Company	26-Signature	Date
27-Name	28-Company	29-Signature	Date

30-38-Comments

API Witness Report - Perforator Witness Registration

GENERAL INFORMATION

1-Testing Company	2-Perforating System Description (Include gun and charge name)	3-Test Location (City, State, Country)
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6. Briquette Preparation – Optional activity to witness, API RP 19B, Section 4.1.2

1-Specimens prepared per RP19B? (Y / N) (Each compartment filled half full, then puddled 25 times each with a glass or non-corroding metal rod ¼ in. in diameter, then filled completely, then puddled 25 times, then excess slurry struck even with top of mold)	2-# of Specimens Prepared (Minimum required is six)
3-Miscellaneous comments on Briquette Preparation	

Witness Information

4-Name	5-Company	6-Signature	Date
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7-11-Comments

7. Briquette Testing – Optional activity to witness, API RP 19B, Section 4.1.2

1-Description of testing machine (Include Make and Model #)	2-Calibration on machine current? (Y / N) (Required every two years)
3-Approximate time to crush specimens (Maximum load should be reached between 20 and 80sec. The rate of loading shall be 16,000, ±1600 lbf (4000 ±400 psi) per minute)	
4-# of Specimens tested	5-Description of crushed specimens (Ex. Pyramid shaped, sheared at 45 deg angle, etc.)
6-Crush Test Results? (List all individual specimen results)	
7-Miscellaneous comments on Briquette Testing	

Witness Information

8-Name	9-Company	10-Signature	Date
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8. Gun Firing / Data Collection – Optional activity to witness, API RP 19B, Section 4.1.9.4

1-Burr Height Measurements (Describe how verified; ex. 100% of measurements witnessed, or specific individual shots checked against datasheet)
2-Miscellaneous comments on Gun Firing / Data Collection

Witness Information

3-Name	4-Company	5-Signature	Date
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1-Testing Company	2-Perforating System Description (Include gun and charge name)	3-Test Location (City, State, Country)
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