



Witness Report – Perforator System 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 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 1000. Minimum for high temp charges, HMX, HNS, PYX, 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' signatures on tape)				
9-Miscellaneous comments on Charge Selection				

Witness Information

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

2. GUN LOADING – Mandatory activity to witness, API RP 19B, Section 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
20-Name	21-Company	22-Signature

Witness's Initials:

Client's Initials:

Original sent to API by witness

GENERAL INFORMATION

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3. GUN FIRING / DATA COLLECTION – Mandatory activity to witness, API RP 19B, Sections 1.8, 1.9 and 1.10

1-Date	2-Target Diameter	3-Casing Diameter	4-Casing Wall
5-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.)			
6-Minimum gun-casing standoff	7-Top-shot oriented with minimum standoff? (Y / N)	8-Casing full of water? (Y / N)	9-Distance – Top of target to top shot (must be greater than 12 in.)
10-Penetration Measurements (Describe how verified; ex. 100% of measurements witnessed, or specific individual shots checked against datasheet)			
11-EH Measurements (Describe how verified; ex. 100% of measurements witnessed, or specific individual shots checked against datasheet)			
12-Completed datasheet provided? (Y / N)	13-Concrete sample made available? (Y / N)	14-Casing sample made available? (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 2.00 +/- 0.02)			
21-Water / Cement Ratio (Divide amount of water by amount of cement. If water amount given in gallons, multiply by 8.39 (lb/gal) to get amount water in lbs. Specification is 0.52 +/- 0.005)			

Witness Information

22-Name	23-Company	24-Signature
25-Name	26-Company	27-Signature

4. QC SHOTS – Mandatory activity to witness (No applicable RP 19B reference)

1-Date	2-Location (If different from test location)	3-Charge Description	4-Charge Part #	5-Date Shift Code
6-Production QC data review. (List # of different production runs for which data provided, quantity of charges made, and time span over which production runs were made; ex. 4 production runs, totaling 2000 charges, from 01/99 through 05/00).				
7-Describe how charges verified to be same as those selected by witness? (Either charge selection done at same time as QC shots and in sight all time since selected, or seal / marking must match description in Charge Selection Loading Section.)				
8-QC set-up same as listed for production shots? (Y / N)	9-# of shots made	10-Comparison of witnessed results to production data (Ex. 10% higher, within 5%, etc.)		
11-Miscellaneous comments on QC shots				

Witness Information

12-Name	13-Company	14-Signature
15-Name	16-Company	17-Signature

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OTHER WITNESS TASKS

5. Target Pouring – Optional activity to witness, API RP 19B, Section 1.2

1-Date	2-Target Diameter	3-Casing Diameter	4-Casing Wall
5-# of Concrete Trucks	6-Slurry information verified for each truck (Y / N) (Specifications listed in Mandatory Gun Firing / Data Collection Section)		7-Slurry sample taken from middle of target? (Y / N)
8-Miscellaneous comments on Target Pouring			

Witness Information

9-Name	10-Company	11-Signature
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6. Briquette Preparation – Optional activity to witness, API RP 19B, Section 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 _ 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
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7. Briquette Testing – Optional activity to witness, API RP 19B, Section 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. Initial loading of specimen up to one half of expected maximum may be applied at any convenient rate, after that the required load rate is 16,000 ±- 1,600 lbf/min)	
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
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8. Gun Firing / Data Collection – Optional activity to witness, API RP 19B, Section 1.9.3

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
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9. Concrete / Casing Sample Testing – Optional activity to witness, API RP 19B, Section 1.2

1-Concrete sample taken? (Y / N)	2-Concrete sample sent to lab for analysis? (Y / N)
3-Casing sample taken? (Y / N)	4-Casing sample sent to lab for analysis? (Y / N)

Witness Information

5-Name	6-Company	7-Signature
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