

Registered Data Sheet Perforating System Evaluation, API RP 19B Section 1

| API Form 19B-Section 1 ☑ Conforms | ☐ Special Test - See Remarks/Exceptions below | | | | | | | | | | |
|--|--|-------------------|--|------------------|---|--------------|-------------------------|---|---------------|----------------|--|
| Service Company Availab | le to all from Hunting | | Explosive weight | 21 | gm, HMX | powder, | Case Ma | terial | Stee | d . | |
| Gun OD & Trade Name 3-1/8" E | un OD & Trade Name 3-1/8" EXP Gun, 6 SPF 60 Degree | | Max Temp, °F | 400 | 1 hr | 3 hr | 24 | hr | 100 hr | 200 hr | |
| Charge Name 3-3/8" 21 Gm HMX GH | | | Maximum Pressure Rating 20,000 psi, Carr | | | | ier Material H.T. Steel | | | | |
| Manufacturer Charge Part No. EXP-3321-431 Date of Manufacture 25 Aug 2010 | | | Shot Density Tested | | 6 | | | Shots/ft . | | 6 | |
| Gun Type Hollow Steel Carrier, Expendable (HC, E) | | | Recommended Minimum ID for Running | | | | 3.58 | | | in. | |
| Phasing Tested 60 degrees, Firing Order: X Top down Bottom up | | | Available Firing Mode: X Select | | | Selective | 2 X | | | Simultaneous | |
| Debris Description Small steel chips, usually retained in carrier | | | Debris Weight gm/charge, | | | | Debris n/a | | | in³/charge | |
| Remarks/Exceptions per Section 1.11 | | | | | | | 157 | () | | | |
| | | | | | | 2/1 | 1 11 | | | | |
| Casing Data 4-1/2" OD, | Weight 1 | 1.6 | _lb/ft, API Grad | e, <u>L-80</u> | Date of Section | n 1 Test | | 30 Sept | 2010 | | |
| Target Data 78" OD, | Amount of Cement | 6,354 | lb, Amount of | Sand | 12,708 | 1 (p. 2) | Amount of Wa | ter | 3,317 | lb. | |
| Date of Compressive Strength Test 3 | 30 Sept 2010 | Briquette Co | mpressive Strength | 6,375 | psi | Age of | Target | 2 | 8 | days | |
| CL | | | | | 71 . 711 | V | | | | aujo | |
| Shot No. | No 1 No 2 0.00 0.18 | No 3 | No 4 No 5 | | No 7 | No 8 | No 9 | No 10 | No 11 | | |
| Clearance, in. | | 0.62 | 0.87 0.62 | 0,18 | 0.00 | 0.18 | 0.62 | 0.87 | 0.62 | | |
| Casing Hole Diameter, Short Axis, in Casing Hole Diameter, Long Axis, in | | 0.50 | 0.46 0.60 | 0.49 | 0.56 | 0.61 | 0.48 | 0.50 | 0.50 | | |
| | | | 0.50 0.62 | TV 2.77 | 0.58 | 0.62 | 0.56 | 0.54 | 0.59 | | |
| Total Depth, in. | 0.59 0.62 | 0.53 | 0.48 0.61 | 0.54 | 0.57 | 0.62 | 0.52 | 0.52 | 0.55 | | |
| Burr Height, in. | | 29.75 0.06 | 30.63 28.00 0.06 0.05 | 31.00 | 0.04 | 0.06 | 30.13 0.05 | 30.25 0.07 | 28.25 0.05 | | |
| bull rieight, in. | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.07 | 0.03 | | |
| 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. | 0.18 | (O)// | (4 (2) | | | | | | | xxxxxx | |
| Casing Hole Diameter, Short Axis, in | 0.56 | 7 101 | | | | | | | | 0.54 | |
| Casing Hole Diameter, Long Axis, in | 0.59 | 4 <u>7</u> 1 | | | | | | | | 0.58 | |
| Average Casing Hole Diameter, in | 0.58 | 117 | | | | | | | | 0.56 | |
| Total Depth, in. | 31.00 | | | | | | | | | 29.23 | |
| Burr Height, in. | 0.03 | | | | | | | | | 0.06 | |
| Remarks | 761 | | | | | | | | | | |
| Manufacturer's Certification | (514 | | | | | | | | | | |
| Type of Certification: X Sel | | | | | | | | | | | |
| Type of Certification: X Sel | In | ird Party | | | | | | | | | |
| I certify that these tests were made according | | | | | | | | | | | |
| in these tests, such as the guns, jet charges d the equipment was chosen at random from sto | | | | | | | | | | | |
| nor recommends the use of the perforator sys | | substantially the | same as me equipm | erit triat would | be fulfillsfied to pe | ilolate a we | ii ioi ariy opera | ator. AFT Heiti | iei eiluoise | s triese tests | |
| CERTIFIED BY | | annisland Illion | tion Titon | 1/0/200 | | | 1/2 40 | 2 4264 Mi | ford TV | 76670 1164 | |
| CERTIFIED BY RECERTIFIED (Company Official) (Title) (Date) (Company) | | | | | | | 143 1101 | 143 HCR 4361, Milford, TX 76670, USA (Address) | | | |
| X RECENTIFIED (COMPANYOF | | 1.1/2020 | ,———— | 2004 404 | 191-191-191-191-191-191-191-191-191-191 | | | (Addre | 22/ | | |
| Name of test as it should appear on website: 3.13-in. EXP 6 SPF w/ GH EXP-3321-431 | | | | | | | | | | | |
| Name of test as it appears on application and application date: | | | | | | | | | | | |
| | | | | | | | | | | | |