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|--------------|-----------------------|--------------------------|-------------------|-------------|------------|--|--------|-----------------|-------|
| GENERAL | 1 | Comm. Protocol | | Tag Number | | MBS | | 115AT -80876 | |
| | 2 | Line Number | | P&ID Number | | 115P8018-4"-HBE | | PD115-A-8000-16 | |
| | 3 | Equipment Number | | | | 115-P08 | | | |
| | 4 | Service | | | | PROD WELL TUBING DISCH | | | |
| | 5 | Location | | | | FIELD | | | |
| | 6 | Ambient Temperature | | | | -45 to 35 °C | | | |
| PROCESS DATA | 7 | Fluid Name | | | | Emulsion | | | |
| | 8 | Fluid State | | Fluid Phase | | Liquid | | Single Phase | |
| | 9 | Flow Rate | Min | Nor | Max | UOM | 37.85 | 43.54 | Sm³/h |
| | 10 | Pressure | Min | Nor | Max | UOM | 2103 | 2175 | kPa-g |
| | 11 | Temperature | Min | Nor | Max | UOM | 204.1 | 204.2 | °C |
| | 12 | Viscosity | Min | Nor | Max | UOM | 20 | 20 | cP |
| | 13 | Density | Min | Nor | Max | UOM | 857.7 | 857.7 | kg/m³ |
| | 14 | Conductivity | Min | Nor | Max | UOM | | | S/cm |
| | 15 | Bubble Point | Min | Nor | Max | UOM | | | °C |
| | 16 | Dew Point | Min | Nor | Max | UOM | | | °C |
| | 17 | Velocity | Min | Nor | Max | UOM | | | m/s |
| | 18 | Corrosive | Erosive | Solidifying | Toxic | Yes | | | |
| 19 | Average Particle Size | | | | 400 micron | | | | |
| PROBE | 20 | Tag Number | | | | 115AE-80876 | | | |
| | 21 | Measurement Style | | | | Metal Loss | | | |
| | 22 | Probe Type | | | | CEION Tubular Probe - 0.040" THK (T40) | | | |
| | 23 | Line Size | Nozzle Projection | | | 4" Sch80 | 150 mm | | |
| | 24 | Insertion Length | | | | Order Length: VTD mm, From flange face: VTD mm | | | |
| | 25 | Process Connection | | | | 2", ANSI 600#, RF Flanged, 125-150 µ-IN Finish | | | |
| | 26 | Nozzle / Flange Material | | | | ASTM A106 Gr. B / ASTM A105N/A350LFC | | | |
| | 27 | Probe Material | | | | 316 SS body / BS 970 070 M20 CS element | | | |
| | 28 | Mounting | | | | In-Line | | | |
| | 29 | Cable Length | | | | 10m (6 pair 22awg individually foil screened data cable) | | | |
| | 30 | Product Code | | | | 10327G0034640A06 | | | |
| TRANSMITTER | 31 | Tag Number | | | | 115AT-80876 | | | |
| | 32 | Type | | | | Single - Channel | | | |
| | 33 | Output | | | | MODBUS RS485 | | | |
| | 34 | Housing Material | | | | SST | | | |
| | 35 | Area Classification | | | | Class 1 Zone 2 Group IIA | | | |
| | 36 | Enclosure | | | | NEMA 4X | | | |
| | 37 | Distance to Probe | | | | 10 m | | | |
| | 38 | Temperature Compensation | | | | Yes | | | |
| | 39 | Local Indication | | | | No | | | |
| | 40 | Power Supply | | | | 24 VDC, Current VTA | | | |
| | 41 | | | | | | | | |
| CERTIFICATES | 42 | NACE Certificate | | | | Yes,MR 0175 / ISO-15156 | | | |
| | 43 | MTR | | | | Yes | | | |
| | 44 | CSA Approval | | | | Yes | | | |
| | 45 | | | | | | | | |
| OTHERS | 46 | Isolation Valve | | | | No | | | |
| | 47 | Gauge | | | | Yes | | | |
| | 48 | Hollow Plug Assembly | | | | Yes (PN: AHPA B03) | | | |
| | 49 | | | | | | | | |
| | 50 | | | | | | | | |
| PURCHASE | 51 | Vendor | Price | | | CORR SCIENCE INC. | | | |
| | 52 | Manufacturer | SAP Number | | | Cormon | | 02-02304 | |
| | 53 | Model | | | | 10326G0000000000/10327G0034640A06 | | | |
| | 54 | PO Number | | | | | | | |
| | 55 | Serial Number | | | | | | | |
| | 56 | | | | | | | | |


For Notes, See Next Page

REV 113-01

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| | | | | | | INSTRUMENT SPECIFICATION | |  | |
| | | | | | | Sand Erosion Monitor | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 1A | SK | AD | MR | 12/06/12 | Issued For Quotation | | Sheet 1 of 2 | | |
| Rev. | By | Chkd | Eng | Appr | Date | Description | SAP No.02-02304 | Doc No.:DS115-J-AT80876-1 | Rev.: 1A |

Tag Number : 115AT -80876

1. The instrument shall be identified with two permanently attached 316 SS tag one riveted on & one attached with SS wire.
2. The instrument shall be supplied with an Alberta CRN number.
3. All electrical devices shall be CSA approved and meet ANSI/ISA-12.27.01
4. The transmitter is rated at -50 °C.
5. Mechanical Lift Max
Liquid: Flow - 43.54 Sm³/h; Density - 857.7 kg/m³; Superficial Velocity 1.997 m/s
Bulk Velocity: 1.63 m/s
6. Design Condition is 8149 kPag @ 278 °C
7. Std Density - 1051kg/m³.
8. Line 19, 400 micron is the maximal particle size.

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|-----|----|----------|----------------------|--|-----------------------------|---|
| | | | | INSTRUMENT SPECIFICATION Sand Erosion Monitor | |  |
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| 1A | SK | 12/06/12 | Issued For Quotation | | | Sheet 2 of 2 |
| No. | By | Date | Revision | Code: 117 | Dwg. No.: DS115-J-AT80876-1 | Rev.: 1A |