

**GAS COMPRESSOR**



**UNIT: CB04**

**PERFORMANCE**

|                               | Single Well  | Multiple Wells                                     |
|-------------------------------|--|--|
| Gas Inlet                     | 3.5 mmscfd (99 e <sup>3</sup> m <sup>3</sup> /d)   | 8.90 mmscfd (252 e <sup>3</sup> m <sup>3</sup> /d) |
| Oil/Condensate Inlet          | 1,258 bbl/d (200 m <sup>3</sup> /d)                | 2,328 bbl/d (370 m <sup>3</sup> /d)                |
| Water Inlet                   | 63 bbl/d (10 m <sup>3</sup> /d)                    | 113 bbl/d (18 m <sup>3</sup> /d)                   |
| Gas Outlet                    | 3.79 mmscfd (107 e <sup>3</sup> m <sup>3</sup> /d) | 9.30 mmscfd (263 e <sup>3</sup> m <sup>3</sup> /d) |
| Oil/Condensate Outlet         | 1,171bbl/d (186 m <sup>3</sup> /d)                 | 2,167bbl/d (345 m <sup>3</sup> /d)                 |
| Water Outlet                  | 63 bbl/d (10 m <sup>3</sup> /d)                    | 113 bbl/d (18 m <sup>3</sup> /d)                   |
| Vented or Flared Hydrocarbons | None   | None   |

**DESIGN CRITERIA**

|  |                       |
|--|-----------------------|
| HP Separator Inlet - Design Press.     | 1,440 psi (9,930 kPa) |
| LP Separator Inlet – Design Press.     | 265 psi (1,827 kPa)   |
| LP Compressor – Inlet Press.           | 265 psi (1,827 kPa)   |
| LP Compressor – Final Discharge Press. | 1,440 psi (9,930 kPa) |
| VRU Compressor – Inlet Design          | 1,440 psi (9,930 kPa) |
| Year Built                             | 2015                  |

**MAJOR EQUIPMENT**

|                                      |           |
|--------------------------------------|-----------|
| High Pressure Separator (HP Sep)     | On-Skid   |
| Additional HP Separators             | Available |
| Low Pressure Separator (LP Sep)      | On-Skid   |
| Low Pressure Compressor (LP Comp)    | On-Skid   |
| Vapor Recovery Compressor (VRU Comp) | On-Skid   |
| Motor Control Centre (MCC)           | On-Skid   |
| Variable Frequency Drive (VFD)       | On-Skid   |
| Instrument Air Compressor            | On-Skid   |

**SKID CONNECTIONS**

|                          |             |                           |             |
|--------------------------|-------------|---------------------------|-------------|
| HP Sep Inlet             | 3" CL600 RF | Water Outlet              | 2" CL600 RF |
| VRU Inlet                | 4" CL150 RF | Drain Outlet              | 2" CL600 RF |
| Aux Sales Gas Inlet      | 6" CL600 RF | HP Flare 1 Outlet         | 6" CL300 RF |
| Aux Oil/Cond Inlet       | 3" CL600 RF | HP Flare 2 Outlet         | 4" CL300 RF |
| Aux Water Inlet          | 2" CL600 RF | Fuel Gas Outlet           | 1" NPT      |
| Aux HP Flare Inlet       | 4" CL600 RF | Tank Blanket Gas Outlet   | 1" NPT      |
| Aux Drain Inlet          | 2" CL600 RF | Instrument Air Outlet (2) | 1" NPT      |
| Future Heater Tie-In (2) | 3" CL600 RF | Compressor Oil Drain      | 1" NPT      |
| Fuel Gas Inlet           | 1" NPT      | Seal Pot Vent (sour)      | 2" CL150 RF |
| Sales Gas Outlet         | 6" CL600 RF | Seal Pot Drain (sour)     | 1" NPT      |
| Oil/Cond Outlet          | 2" CL300 RF | Prover Taps (4)           | 2" CL600 RF |

## SHIPPING DIMENSIONS

|                       |                        |
|-----------------------|------------------------|
| Width                 | 17' – 0" (5.18m)       |
| Length                | 46' – 6" (14.17m)      |
| Height                | 14' – 1" (4.29m)       |
| Weight Estimate (dry) | 105,000 lbs (47,600kg) |



## CERTIFICATION

|                             |                                |
|-----------------------------|--------------------------------|
| Vessels                     | ASME Sec. VIII                 |
| Exchangers                  | ASME Sec. VIII                 |
| Piping                      | ASME B31.3                     |
| Structural                  | CWB                            |
| Electrical                  | CSA                            |
| Province(s) of Registration | AB, BC, SK, YT, NWT            |
| Area Classification Unit    | Class 1 Div 2 Group D          |
| Area Classification MCC     | Non-Classified General Purpose |
| Sour                        | Yes                            |



## PROCESS FLOW

