



NOTES

REFER TO LEGEND SHEETS 168397-100-PR-PY-4001-0012 FOR DETAILS OF PIPING CLASS, INSULATION, EQUIPMENT TYPES, INSTRUMENT DETAILS, VALVES AND SPECIFIC HOOK-UP REQUIREMENTS.

- LV-1107-1 FOR USE DURING PRODUCED WATER START-UP. CONTROL TO BE SWITCHED TO LV-1107-2 FOR NORMAL OPERATION.
- SCHEME SHOWN IN PACKAGE IS INDICATIVE ONLY. REFER TO VENDOR DRAWINGS 168397-100-PO-4360-MC-001 AND 002 FOR DETAILS.
- THREADED FLANGE.
- SIGNAL SELECTOR LV-12107 TO OPERATE UNDER LEVEL CONTROL FROM EITHER THE PRODUCTION OR TEST SEPARATOR.
- CONTROL VALVE TO BE LOCATED AS CLOSE AS POSSIBLE TO THE DEGASSER DRUM V-4012.
- PART OF X-4003.
- INJECTION GULL ASSEMBLY.
- FLOWRATE SHOWN IS THE QUANTITY OF PRODUCED WATER LEAVING THE PRODUCTION SEPARATOR INCLUDING REJECT FLOWS RECYCLED BACK THROUGH THE SECOND STAGE SEPARATOR.
- DELETED.
- CONTROL SYSTEM TO BE CAPABLE OF OPERATION UNDER GAP ACTION DURING PERIODS OF LOW FLOW. IN THIS MODE SYSTEM TO BE CONFIGURED WITH SOFTWARE MAXIMUM LIMIT STOP TO PREVENT POTENTIAL FOR OIL BREAKTHROUGH.
- DELETED.
- THE SEPARATOR DEOILING HYDROCYCLONE SKID INCLUDES SPENT SCAVENGER SEPARATOR DEOILING HYDROCYCLONE (V-4015). REFER TO P&ID 168397-100-PR-PY-4001-02 FOR DETAILS.
- SAMPLE POINT TAKE-OFF TO BE LOCATED AT TOP OF PIPE.
- LV-1107-1 SIZED FOR 50% OF TOTAL PRODUCED WATER RATE.
- LV-1107-2 SIZED FOR 100% OF TOTAL PRODUCED WATER RATE.
- TREATED SEAWATER FOR DEOILING HYDROCYCLONES BACKWASH.
- REMOVABLE SPOOL FOR POTENTIAL FUTURE SOLIDS REMOVAL EQUIPMENT.
- UTILITY CONNECTION POINTS TO BE LOCATED CLOSE TO THE SEPARATOR DEOILING HYDROCYCLONE SKID. HOSE IS REQUIRED TO TP134B, TP14 AND TP15 FOR NITROGEN PURGE/DEAERATED WATER FLUSH.
- TPs ARE LOCATED AT HYDROCYCLONE VESSEL NOZZLES. PSVs SUPPLIED LOOSE BY PACKAGE SUPPLIER. MANUAL VALVES AND PIPING FROM HYDROCYCLONES TO/FROM PSVs BY C881. REFER TO PACKAGE P&ID FOR DETAILS.

REV	DATE	DESCRIPTION	DRN	CHK	APP	CLT
Z2	30/10/2018	AS-BUILT FOR 21048689	LM	JL	JL	TR
Z1	15/08/2014	AS-BUILT INC. RN 07	JPN	JG	JG	JM
1	22/05/2012	RFC INC. RN 04-06	MC	JCM	RJD	SA
0	02/02/2012	AFC INC. RN 02-03	MC	JCM	RJD	SA
D2	31/10/2011	REVISED FOR DESIGN INC. RN 01	MC	JCM	RJD	SA
Z3	14/03/2002	AS-BUILT FOR CIO101	TPK	TF	GR	TR

COMPANIES

Buzzard Field Development

Worley

TITLE

PIPING & INSTRUMENT DIAGRAM
PRODUCED WATER
TREATMENT HYDROCYCLONES

SCALE (A1): NTS

ASSN No: PRO8PU0080

CONTRACT No: 168397

CLIENT CONTRACT No: GEA-CT-COKW00808

DRAWING No: 168397 - 100 - PR - PY - 4001 - 01

REV
Z3