E-80130
LEAN/RICH AMINE EXCHANGER
DESIGN: 1034 KPAG (150 PSIG) @ -29/143°C (-20°/290°F)
DUTY: 569.8 KW
ESTIMATED WEIGHT (EMPTY): 475 KG (1047 LBS)

P-80140
ANTI-FOAM INJECTION PUMP
MANUFACTURER: BRUIN
MODEL: BR5105L-A612
CAPACITY: 8.2m3/h (30.2 IMPGPD)
RATING: 20,670 KPAD (3,000 PSID)
ESTIMATED WEIGHT (EMPTY): TBD

TK-80150
ANTI-FOAM INJECTION TANK
19 LITRES (5 GALLON)
STAINLESS STEEL TANK

(AMINE SKID LIMITS)

SIGNAL 18061-PR-PID-004 FROM RICH AMINE FLASH TANK LEVEL CONTROL LIC-80100

SIZE: 1"-CL150 x 2"-CL150 SET @ 1034 KPAG CASE: THERMAL RELIEF ORIFICE SIZE: 'D'

SIZE: 1-1/2"-CL150 x 2"-CL150 SET @ 1034 KPAG CASE: THERMAL RELIEF ORIFICE SIZE: 'F'

SIZE: 1/2" x 1" SET @ 1034 KPAG CASE: FULL FLOW ORIFICE SIZE: 'D'

4"-APSN-LA-2140-25H

3"-APSN-RA-2129-25H

2"-APSN-RA-2128

3"-APSN-RA-2127

4"-APSL-LA-2190-38H-ET

4"-APSN-LA-2141-25PP

2"-APSN-AD-2153

(1/2" TUBING)

SECONDARY CONTAINMENT

E-80130

P-80140

TK-80150

19 L STORAGE TANK

SET @ 207 KPAG

SET @ 206 KPAG

VENT TO SAFE LOCATION

DP | DP 1034 KPAG | 516 KPAG

HH=93°C H=

LEAN AMINE 18061-PR-PID-008 FROM REBOILER

RICH AMINE 18061-PR-PID-007 TO AMINE REGENERATOR TOWER

ANTI-FOAM 18061-PR-PID-012 TO CHARGE PUMPS

ANTI-FOAM 18061-PR-PID-014 TO AMINE REFLUX PUMPS

RICH AMINE 18061-PR-PID-005 FROM RICH AMINE FILTER

LEAN AMINE 18061-PR-PID-008A TO SURGE VESSEL

LEAN AMINE 18061-PR-PID-008A FROM SURGE VESSEL

LEAN AMINE 18061-PR-PID-009 TO BOOSTER PUMPS

AMINE DRAIN HEADER #2 18061-PR-PID-005

AMINE DRAIN HEADER #2 18061-PR-PID-009

FOR CONSTRUCTION
September 25, 2019

GENERAL NOTES

A. ALL PIPING PROJECTING OUTSIDE OF THE BUILDING TO BE LOW TEMP MATERIAL BACK TO THE FIRST JOINT INSIDE BUILDING.
B. LEAN AMINE (LA) PIPING DOES NOT REQUIRE P.W.H.T..

1. PROVISION FOR 100% STAND BY LEAN/RICH AMINE EXCHANGER.
2. --
3. SHUT BOOSTER PUMPS OFF BASED ON REACHING TEMPERATURE RESULTING IN VAPOUR PRESSURE. SO NPSHA > NPSHR OVER 1M WHILE MAINTAINING 7 KPAG SURGE VESSEL OPERATING TEMPERATURE.

*VALVES AND INSTRUMENTS SUPPLIED BY STARTEC AND SHIPPED LOOSE
**VALVES AND INSTRUMENTS SUPPLIED BY OTHERS
---- FIELD PIPING BY OTHERS

NO.	DATE	BY	AP'D	DESCRIPTION
A	19-01-07	DD	SR	ISSUED FOR APPROVAL
B	19-01-21	DD		ISSUED FOR APPROVAL
C	19-03-04	KJH		GENERAL REVISIONS
0	19-04-17	GE		ISSUED FOR CONSTRUCTION
0.1	19-05-13	GE		ISSUED FOR HAZOP
0.2	19-09-04	GE		REVISED AS SHOWN

55 GPM AMINE GAS PLANT

STARTEC
COMPRESSION & PROCESS LTD.
APEGA NO. P13139

DRAWN: DD DATE: 19-01-21
CHECKED: -- DATE:
ENG. APP'L: SR DATE: Sept 20, 19
PACKAGE NO.: --
REFERENCE NO.: --

CUSTOMER:

TITLE: PIPING & INSTRUMENTATION DIAGRAM LEAN/RICH AMINE EXCHANGER & ANTI-FOAM INJECTION PUMP

SCALE: N.T.S. DRAWING NO.: 18061-PR-PID-006 REV: 0.2