



**GENERAL NOTES:**

1. ALL ELEVATIONS ARE FROM TOP OF SKID FLOOR.
2. MAIN PIPING PLAN TO BE READ IN CONJUNCTION WITH MECHANICAL FLOW DIAGRAM.
3. ALL BUTTWELD PIPING TO BE BUILT IN ACCORDANCE WITH THE LATEST EDITION OF B31.3 PRESSURE PIPING CODE.
4. ALL BUTTWELD PIPING TO BE:
  - CARBON STEEL MATERIALS
  - 150# ANSI: 2" - SCH 80 (FOR PSV HEADER ONLY)
  - 3" - SCH 40
  - 600# ANSI: 2" - SCH 160
  - 3", 4" & 6" - SCH 80

5. ALL THREADED PIPING 1/2" - 1 1/2":
  - 600 ANSI SCH. 160 (2.0mm C.A.), SW 3000#/NPT 6000#
  - 150 ANSI SCH. 80 (2.0mm C.A.), SW/NPT 3000#
6. ALL BUTTWELD PIPING TO BE 100% RADIOGRAPHED AND PWHT TO B31.3 HYDROTESTED TO 1.5 TIMES OF DESIGN PRESSURE.
  - WELD REPAIR WILL BE GIVEN ONE ATTEMPT TO REPAIR AND IF FAILED IT WILL BE A TOTAL JOINT CUT OUT. ANY CRACKS IDENTIFIED WILL BE A TOTAL JOINT CUT OUT.
  - 600 ANSI PIPING INTERPRETED TO ASME B31.3 NORMAL FLUID SERVICE WITH THE FOLLOWING MODIFICATIONS:
    - a) INCOMPLETE PENETRATION IS NOT ACCEPTABLE
    - b) INCOMPLETE FUSION OF THE ROOT BEAD IS NOT PERMITTED
    - c) CUMULATIVE LENGTH OF IJC SHALL NOT EXCEED THE LESSER OF 2" OR 16% OF WELD LENGTH.
  - 7. FLANGE BOLT UP STUDS MUST HAVE MIN. 2 THREADS SHOWING PAST THE NUT AND MAX. 1/2" STICK THROUGH.
  - 8. ALL INSTRUMENT GAS THREADED PIPING TO BE LEAK TESTED TO 800 KPa.
9. ALL PROCESS DRAINS ARE HARD PIPE OR TUBING TO DRAIN HEADER.
10. NO PIPE DOPE TO BE USED. USE TEFLON TAPE ON ALL NPT CONNECTIONS.
11. INSTRUMENT TUBING TO BE 3/8" DIA. 0.035" WALL 316SS c/w SS SWAGELOK TUBE FITTINGS.
12. PROCESS TUBING TO BE 1/2" DIA. 0.035" WALL 316 SS c/w SS SWAGELOK TUBE FITTINGS.
13. UNIT TO BE SANDBLASTED TO SSPC-SP6 (COMMERCIAL) SURFACE PROFILE 0.9-1.5MILS PRIOR TO:
  - (1) SHOP COAT OF ZINC CHROMATE PRIMER (2.0 MILS) CLOVERDALE
  - (2) SHOP COAT OF EMANEL FINISH; CLOVERDALE
    - ALL PIPING, VESSEL, STRUCTURAL 2-4 MILS CLOVERDALE ALKXD ENAMEL FINISH TO GREY COLOR
14. UNDERSIDE OF SKID TO BE INSULATED WITH 2" POLYURETHANE FOAM c/w FIRE RETARDANT.
15. ALL OPENINGS TO BE COVERED PRIOR TO SHIPMENT.
16. SHIPPING FLANGES OUTSIDE BLDG. MUST BE EITHER FITTED PLASTIC COVERS OR 3/4" PLYWOOD. ANY THREADS OR SMALL PIPING COVER WITH SOFT TAPE.
17. SHIPPING DIMENSIONS :
  - 4000 x 11000 x 4800 HIGH
  - WEIGHT : 21,500 LBS (w/o GLYCOL CONTRACTOR)
  - WEIGHT CONTRACTOR : 12,800 LBS

**BUILDING NOTES:**

- SIZE & TYPE: 3658(12'-0") x 8534(28'-0") x 2591(8'-6")
- GABLE ROOF, 4/12 SLOPE
- EXTERIOR: 22 GA. PREPAINTED STEEL, TAN (WARWICK INDUSTRIES QC-8315) c/w METRO BROWN TRIM (WARWICK INDUSTRIES #8228)
- INTERIOR: R12, 4 MIL VAPOUR BARRIER c/w 24 GAUGE WHITE FLUTED ALUMINUM
- INSULATION: (R20 ROOF) & (R12 WALL) c/w 4 MIL. VAPOUR BARRIER.
- DOOR: (2) 3' x 7' MAN DOOR c/w PANIC LOCK, CHECKCHAIN AND WEATHERSTRIPPING, 20" x 20" IWG WINDOW, AND DOOR CANOPY
- WINDOW: (2) 38" x 36" DOUBLE GLAZED SLIDING c/w SCREEN
- VENTILATION: (2) 12" x 12" LOUVRES c/w SLIDE & SCREEN
- (2) 12" x 36" LOUVER, MANUALLY ADJUSTABLE FROM OUTSIDE c/w BIRDSCREEN
- (1) EXHAUST FAN c/w 1/4 H.P., XP, ELECTRIC MOTOR 12 AC/HR
- OTHERS: DOOR RAISED FOR 2" SKID DRIP LIP & CUT-OUTS
- EAVESTROUGHS, DOWNSPOUTS, ICE RAKES
  - REMOVABLE WALL / ROOF PANEL

ALL TOI/EOL FITTINGS TO BE:

- 3000# - 1 1/2" AND SMALLER
- MAX NICKEL CONTENT FOR CARBON STEEL WELDING CONSUMABLES IS 0.80%

PIPE, FLANGES, FITTINGS TO HAVE:

- MAX CARBON CONTENT 0.23
- MAX MANGANESE CONTENT 1.20
- FOR EVERY 0.01% REDUCTION OF CARBON BELOW 0.20%, THE MANGANESE MAY BE INCREASED BY 0.06%, BUT SHALL NOT EXCEED 1.35%

CU+NI+CR+MO+V MAX 0.60  
 CARBON EQUIVALENT MAX 0.43 CALCULATED AS FOLLOWS:

$$CE = C + \frac{Mn}{6} + \frac{Cr}{5} + \frac{Mo}{15} + \frac{Ni}{30} + \frac{Cu}{15}$$

SHORT FORM CE = C +  $\frac{Mn}{6}$  + 0.05

REV	DESCRIPTION	DATE	BY	REV	DESCRIPTION	DATE	BY
Δ	ADDED 60.3 GAS OUTLET. REVISED LAYOUT TO REFLECT CHANGES	12/15/08	J.P.				
	TO PAID. REVISED AS PER CUSTOMERS MARK-UP						
Δ	REVISED PV-6009 TO DOWNSTREAM OF SP-101 & SP-102.	01/19/08	J.P.				
	REVISED FUEL GAS SUPPLY TO 2" CL. 150. REVISED AS PER CUSTOMERS REQUEST.						

( 1 ) REQ'D

TIME CARD

C-3026-PP

CUSTOMER: NEXEN UNC. LOCATION: b-16-1/94-O-8

c/o TRI-OCEAN ENGINEERING LTD. P.O.# 4500105121

**MAIN PIPING PLAN**

610 OD DEHYDRATION SKID PACKAGE (SOUR)

DATE: 10/27/08 DRN BY: Y.P. SCALE: 1:20 CHD BY: APPRO BY: DWG NO: C-3026-C REV: 2

**RUSHTON**  
 GAS & OIL EQUIPMENT LTD.