



PROJECT REF.. \_\_\_\_\_  
 CUSTOMER \_\_\_\_\_

PROCESS \_\_\_\_\_  
 BY \_\_\_\_\_ DATE \_\_\_\_\_

1. TYPE:  Wet Screw  Dry Screw  Reciprocating  Centrifugal Qty. \_\_\_\_\_  
 2. DRIVER:  Motor \_\_\_\_\_  Steam \_\_\_\_\_  Other \_\_\_\_\_

3. GAS ANALYSIS - VOL %		MW	Design	Alt 1	Alt.2	CASE 4
Air		28,966				
Oxygen	O2	32,000				
Nitrogen	N2	28,016				
Water Vap.	H2O	18,016				
Carb. Mon.	CO	28,010				
Carb. Diox.	CO2	44,010				
Hyd. Sulf.	H2S	34,076				
Hydrogen	H2	2,076				
Methane	CH4	16,042				
Ethylene	C2H4	28,052				
Ethane	C2H6	30,068				
Propylene	C3H6	42,078				
Propane	C3H8	44,094				
i - Butane	C4H10	58,120				
n -Butane	C4H10	58,120				
i - Pentane	C5H12	72,146				
n- Pentane	C5H12	72,146				
Butylene	C4H8	56,100				
Ammonia	NH3	17,031				
Hyd. Chlor.	HCl	36,461				
Chlorine	Cl2	70,914				
Hexane Plus						
Other (HEXANE & heavier)						

**GENERAL**  
**7. MAIN STEAM CONDITIONS**  
 Inlet \_\_\_\_\_ PSIG \_\_\_\_\_ °F  
 Back Pressure \_\_\_\_\_ PSIG  
 Condensing \_\_\_\_\_ in Hg  
 Extracting \_\_\_\_\_ PSIG  
 Extr. Rate \_\_\_\_\_ lb /hr

**8. ELECTRICAL CONDITIONS**  
 Main Drive:  
 \_\_\_\_\_ VAC \_\_\_\_\_ PH \_\_\_\_\_ Hz  
 Small Motors / Heaters  
 \_\_\_\_\_ VAC \_\_\_\_\_ PH \_\_\_\_\_ Hz  
 Controls  
 \_\_\_\_\_ VAC \_\_\_\_\_ PH \_\_\_\_\_ Hz

**9. AREA CLASSIFICATION**  
 Class \_\_\_\_\_ Div \_\_\_\_\_ Group D \_\_\_\_\_  
 Non-Hazardous  
 Other \_\_\_\_\_

**10. COOLING WATER**  
 Source  Cooling Tower  Other  
 Supply Temperature \_\_\_\_\_ °F  
 Supply Pressure \_\_\_\_\_ PSIG  
 Temperature Rise \_\_\_\_\_ F

4. GAS PROPERTIES					
Average Mol. Weight (Wet)					
Cp/Cv Value at Suction					
Cp/Cv Value at Discharge					
Compressibility at Suction					
Compressibility at Discharge					
Relative Humidity,% at Suction		0			

**11. SITE DATA**  
 Altitude \_\_\_\_\_ FT  
 Atmospheric Pressure \_\_\_\_\_ PSIA  
 Design Temperature \_\_\_\_\_ °F  
 Maximum Temperature \_\_\_\_\_ °F  
 Minimum Temperature \_\_\_\_\_ °F

5. CAPACITY					
Mass Flow (Wet) - MMSCFD					
ACFM @ Suction					

**12. OIL CARRY-OVER LIMIT**  
 0.1 PPMw  1.0 PPMw  5.0 PPBw  
 10.0 PPBw  N/A

6. OPERATING CONDITIONS @ Compressor Flange					
Suction Pressure	PSIA				
Suction Temperature	Deg.F				
Discharge Pressure	PSIA				
Discharge Temperature	Deg.F				

**13. REMARKS - SPECIAL CONDITIONS**

Notes: