

E-1
Gas/Gas
Heat Exchanger

V-1
NGL
Fractionator

E-2
Overhead
Condenser

V-2
Reflux
Accumulator

P-1 A/B
Reflux
Pumps

E-3
Column
Reboiler

V-9
Surge
Tank

AC-2
NGL Product
Cooler

Refrigerant return
to HCP-1

Refrigerant supply
from LCV-201

Sheet 2

Gas from C1/C2 1st Stage

T-502/T-532
Glycol
Dehydration

Water Out

Residue Gas to C1/C2
2nd Stage

Anadarko Compressor Station

P-1 A/B

Hot Oil Out

Hot Oil In

Sour NGL to Amine
Sweetening Package

Sheet 2



Process Flow Diagram
NGL Fractionation System

Mark Mathias

Monell 20 CO2Flex Plant

DWG: PM20-001

Sheet: 1 of 4

Rev: 1

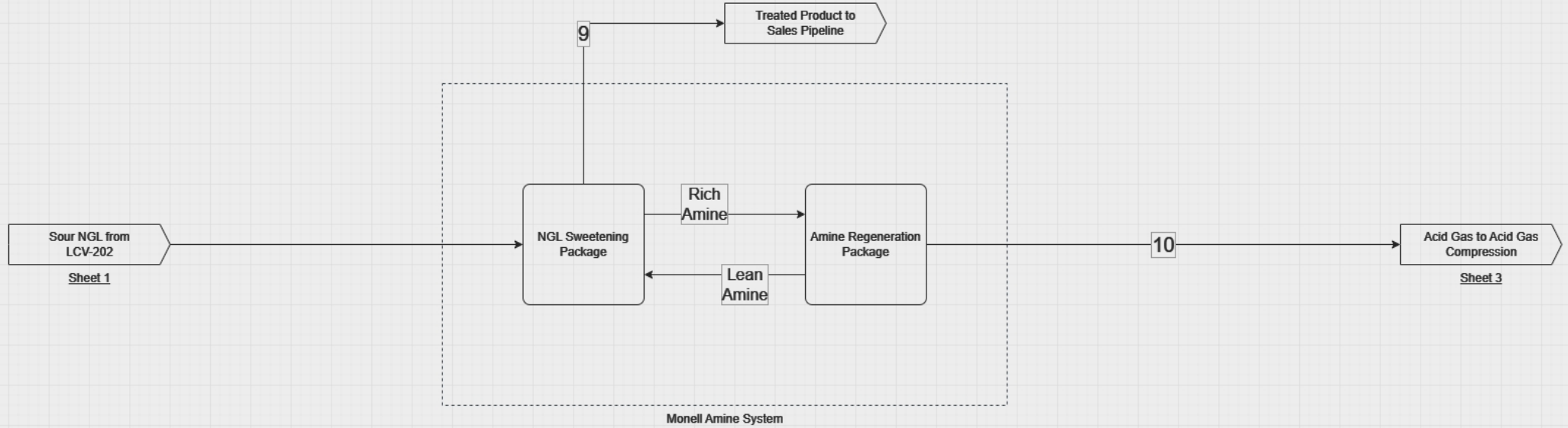
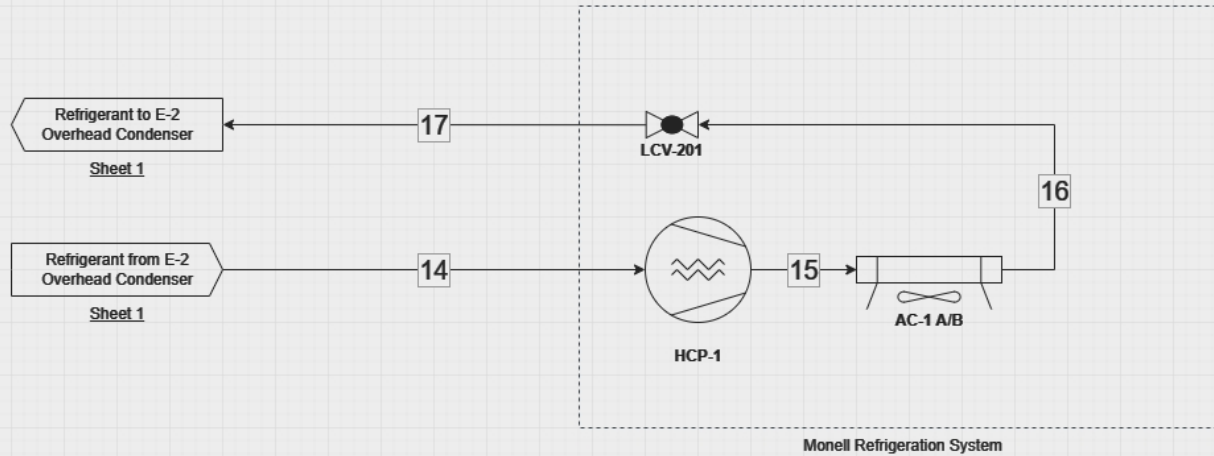
11 November 2024

PILOT EXHIBIT 2055 PAGE 001

SCOUT/CHEVRON v. PILOT - IPR2024-00385

HCP-1
Refrigerant Screw
Compressor Package

AC-1 A/B
Refrigerant
Condenser



Process Flow Diagram
NGL Fractionation System

Mark Mathias

Monell 20 CO2Flex Plant

DWG: PM20-001

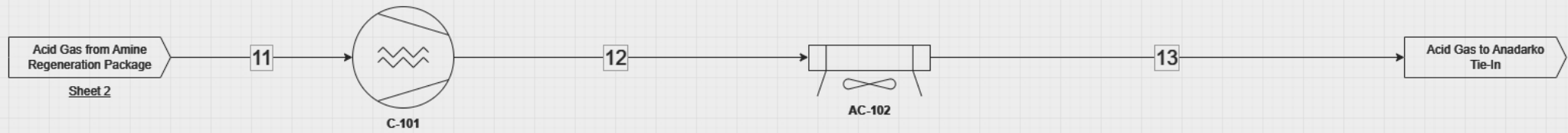
Sheet: 2 of 4

Rev: 1

11 November 2024

C-101
Acid Gas
Compressor

AC-102
Acid Gas
Air Cooler



Process Flow Diagram
NGL Fractionation System

Monell 20 CO2Flex Plant

DWG: PM20-001

Sheet: 3 of 4

Rev: 1

Mark Mathias

11 November 2024

Stream #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Vapour Fraction	1.000	1.000	0.999	1.000	1.000	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	0.327
Temperature, F	104.0	104.0	30.0	4.6	77.7	200.1	120.0	120.1	115.3	100.0	100.0	264.3	120.0	-5.1	158.4	120.0	1.7
Pressure, psig	345.0	340.0	335.0	330.0	325.0	340.0	335.0	200.3	185.3	5.3	4.3	635.3	630.3	20.0	235.3	230.3	25.0
Molar Flow, MMSCFD	17.07	17.00	17.00	16.83	16.83	0.17	0.17	0.17	0.16	0.01	0.01	0.01	0.01	10.87	13.02	13.02	10.87
Mass Flow, lb/hr	80969	80832	80832	79692	79692	1139	1139	1139	1091	48	48	48	48	52656	63041	63041	52656
Liquid Volume Flow, USGPM	-	-	-	-	-	3.769	3.768989	3.768989	3.6804666	-	-	-	-	-	-	-	139.37645
Heat Flow, btu/hr	-3.024E+08	-3.016E+08	-3.032E+08	-3.025E+08	-3.009E+08	-1.262E+06	-1.323E+06	-1.323E+06	-1.160E+06	-1.628E+05	-1.628E+05	-1.616E+05	-1.635E+05	-5.517E+07	-6.279E+07	-7.178E+07	-6.117E+07
Composition, mol%																	
H2S	0.0031	0.0031	0.0031	0.0030	0.0030	0.0094	0.0094	0.0094	0.0000	0.1580	0.1580	0.1580	0.1580	0.0000	0.0000	0.0000	0.0000
Nitrogen	0.0008	0.0008	0.0008	0.0008	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CO2	0.9362	0.9400	0.9400	0.9492	0.9492	0.0500	0.0500	0.0500	0.0000	0.8420	0.8420	0.8420	0.8420	0.0000	0.0000	0.0000	0.0000
Methane	0.0218	0.0219	0.0219	0.0221	0.0221	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Ethane	0.0155	0.0156	0.0156	0.0158	0.0158	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Propane	0.0116	0.0116	0.0116	0.0088	0.0088	0.2791	0.2791	0.2791	0.2968	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000
i-Butane	0.0015	0.0015	0.0015	0.0002	0.0002	0.1285	0.1285	0.1285	0.1366	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
n-Butane	0.0031	0.0031	0.0031	0.0001	0.0001	0.2978	0.2978	0.2978	0.3166	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
i-Pentane	0.0007	0.0007	0.0007	0.0000	0.0000	0.0685	0.0685	0.0685	0.0728	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
n-Pentane	0.0006	0.0006	0.0006	0.0000	0.0000	0.0587	0.0587	0.0587	0.0624	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
n-Hexane	0.0005	0.0005	0.0005	0.0000	0.0000	0.0489	0.0489	0.0489	0.0520	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
n-Octane	0.0006	0.0006	0.0006	0.0000	0.0000	0.0587	0.0587	0.0587	0.0624	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
H2O	0.0041	0.0000	0.0000	0.0000	0.0000	0.0004	0.0004	0.0004	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000