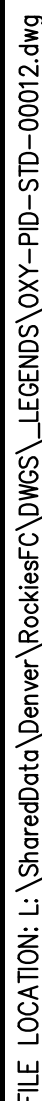
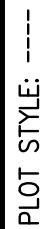


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EQUIPMENT NUMBERING STANDARD			PIPE LINE NUMBERING STANDARD			PIPING SYMBOLS																								
<div><div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div></div><div>EQUIPMENT IDENTIFICATION CODE</div><div>AREA NUMBER</div><div>TRAIN NUMBER(*)</div><div>EQUIPMENT ID</div></div> <div>*TRAIN NUMBER (USE 0 FOR COMMON EQUIPMENT)(OR COMPRESSOR UNIT NUMBER – CTF SITES ONLY)</div> <div>INSTRUMENTATION NUMBERS – MATCH EQUIPMENT ID AND INCREMENT NUMERICALLY ONLY.</div> <div>ELECTRICAL NUMBERS – MATCH EQUIPMENT ID AND INCREMENT NUMERICALLY ONLY.</div> <div>ALPHAS ONLY AS APPROVED BY APC ENGINEERING.</div>			<div><div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div></div><div>PIPE SIZE</div><div>SERVICE IDENTIFICATION</div><div>SEQUENTIAL NUMBER</div></div> <div>INSULATION THICKNESS</div> <div>TRACING TYPE</div> <div>INSULATION TYPE</div> <div>PIPE SPECIFICATION</div>			<div>FLOW SHEET LINE TYPES</div> <div>MAJOR</div> <div>MAJOR SECONDARY</div> <div>MINOR</div> <div>MINOR SECONDARY</div> <div>SKID LIMITS</div>					<div>VALVES</div> <div>BALL VALVE</div> <div>GATE VALVE</div> <div>GLOBE VALVE</div> <div>PLUG VALVE</div> <div>CHECK VALVE</div> <div>CHECK VALVE – PISTON</div> <div>NEEDLE VALVE</div> <div>BUTTERFLY VALVE</div> <div>INLINE CHOKE VALVE</div> <div>ANGLE CHOKE</div> <div>DIAPHRAGM VALVE</div> <div>GAUGE VALVE</div> <div>BLOCK & BLEED VALVE</div> <div>EXCESS FLOW VALVE</div> <div>ANGLE VALVE</div> <div>CONVENTIONAL PRESSURE RELIEF VALVE</div> <div>PILOT RELIEF VALVE</div> <div>ANGLE VALVE w/ HANDLE</div> <div>DIAPHRAGM GATE VALVE</div> <div>DIAPHRAGM BALL VALVE</div> <div>PRESSURE REGULATOR GATE VALVE</div> <div>PRESSURE REGULATOR BALL VALVE</div> <div>PISTON OPERATED GATE VALVE</div> <div>PISTON OPERATED BALL VALVE</div> <div>SOLENOID GATE VALVE</div> <div>SOLENOID BALL VALVE</div> <div>ANGLE DIAPHRAGM VALVE</div> <div>3-WAY DIAPHRAGM VALVE</div> <div>3-WAY SOLENOID VALVE</div> <div>3-WAY SPRING OPPOSED VALVE</div> <div>3-WAY THERMOSTATIC VALVE</div> <div>3-WAY VALVE</div> <div>3-WAY VALVE w/ HANDLE</div> <div>3-WAY RELIEF VALVE</div>					<div>FLANGES</div> <div>BLIND FLANGE OR LINE TERMINATION</div> <div>UNION</div> <div>SR/JR</div> <div>ORIFICE</div> <div>ORIFICE CLOSED</div> <div>ORIFICE PADDLE</div> <div>FLOW TRANSMITTER WITH GATE VALVE</div> <div>FLOW TRANSMITTER WITH BALL VALVE</div> <div>FLOW TRANSMITTER WITH NEEDLE VALVE</div> <div>BLEED RING WITH GATE VALVE</div> <div>BLEED RING WITH BALL VALVE</div> <div>SPECTACLE BLIND OPEN POSITION</div> <div>SPECTACLE BLIND CLOSED POSITION</div> <div>PADDLE BLIND CLOSED POSITION</div> <div>PADDLE BLIND OPEN POSITION</div> <div>NOZZLES</div> <div>COUPLING</div> <div>FRONT VIEW CONNECTION</div> <div>NOZZLE BLINDED</div> <div>NOZZLE FLANGED</div> <div>MANWAY SINGLE LINE (SIDE VIEW)</div> <div>MANWAY (SIDE VIEW)</div> <div>MANWAY (FRONT VIEW)</div> <div>TANK CLEANOUT</div> <div>EQUIPMENT NOZZLE CALLOUT</div>					<div>INLINES</div> <div>Y" TYPE STRAINER</div> <div>Y" TYPE STRAINER WITH GATE VALVE</div> <div>Y" TYPE STRAINER WITH BALL VALVE</div> <div>INSULATION (SEE TABLE)</div> <div>INSULATION WITH HEAT TRACE (SEE TABLE)</div> <div>INSULATION WITH GLYCOL HEAT TRACE</div> <div>EQUIPMENT INSULATION</div> <div>TURBINE METER</div> <div>POSITIVE DISPLACEMENT METER</div> <div>MAGNETIC FLOW METER</div> <div>ULTRASONIC METER</div> <div>INLINE MIXER</div> <div>BASKET STRAINER</div> <div>FILTER</div> <div>INLINE STRAINER</div> <div>CONE STRAINER</div> <div>START UP STRAINER (WITCH HAT)</div> <div>EXPANSION JOINT</div> <div>ROTAMETER FLOW INDICATOR</div> <div>V-CONE METER</div> <div>VENTURI TUBE OR FLOW NOZZLE</div> <div>VENTURI TUBE WITH TAPS</div> <div>STRAIGHTENING VANES</div> <div>FLOW CONDITIONER</div> <div>VORTEX SENSOR</div> <div>ANNUBAR</div> <div>MASS FLOW CORIOLIS METER</div> <div>CORIOLIS METER</div> <div>RUPTURE DISK</div> <div>RUPTURE DISK (PRESSURE)</div> <div>RUPTURE DISK (VACUUM)</div> <div>EXCESS FLOW PREVENTER/MIXER</div> <div>DIAPHRAGM SEAL</div> <div>CHEMICAL SEAL</div> <div>PITOT TUBE OR PITOT VENTURI TUBE</div> <div>FLOW CONDITIONER</div>					<div>MISCELLANEOUS</div> <div>DRESSER COUPLING</div> <div>MATERIAL, AG/BG, INSULATION, PIPING SPEC OR SOW CHANGE</div> <div>FLEXIBLE HOSE FLANGED</div> <div>FLEXIBLE HOSE</div> <div>TRUCK CONNECTION/ BOW & CAP</div> <div>AGITATOR</div> <div>TRUCK (BACK VIEW)</div> <div>TRUCK (SIDE VIEW)</div> <div>RAILCAR</div> <div>Y-TRAP OPEN DRAIN</div> <div>LIQUID SEAL X"=HEIGHT</div> <div>VENT</div> <div>TIE IN TO EXISTING PIPING OR PIPING BY OTHERS</div> <div>SPECIALITY ITEM</div> <div>INSULATING FLANGE KIT</div> <div>CORROSION COUPON</div> <div>PROCESS STREAM FLOW</div> <div>FLAME ARRESTOR</div> <div>MIST PAD OR MIST ELIMINATOR</div> <div>VORTEX BREAKER</div> <div>EJECTOR OR EDUCTOR</div> <div>SLOPE POINTED IN DOWNHILL SIDE</div> <div>PLUG</div> <div>BULL PLUG</div> <div>CAP WELDED/PIPE/ LINE OR TERMINATION</div> <div>CAP THREADED</div> <div>INSTRUMENT BREAK</div> <div>VENT TO ATMOS</div> <div>VENT WITH BUG SCREEN</div> <div>PIG PASSAGE INDICATOR (PIG SIG)</div>				
<div>EQUIPMENT IDENTIFICATION CODE</div> <div>AC-#### AIR COOLED FIN FAN</div> <div>C-#### COMPRESSOR</div> <div>E-#### EXCHANGER</div> <div>F-#### FILTER</div> <div>H-#### FIRED HEATERS</div> <div>M-#### MOTOR</div> <div>P-#### PUMP</div> <div>R-#### REACTOR</div> <div>T-#### TOWER</div> <div>TK-#### TANK ATMOSPHERE</div> <div>V-#### VESSEL, PROCESS</div> <div>VS-#### VESSEL, STORAGE</div> <div>FL-#### SPECIALTY I.E., VENT STACK, FLARE, INCINERATOR, ECD</div> <div>TO-#### THERMAL OXIDIZER</div> <div>X-#### MISC. EQUIPMENT</div>			<div>EQUIPMENT NUMBERING SYSTEM</div> <div>COMPRESSOR STATIONS & OIL PUMPING FACILITIES</div> <div>AREA NUMBERS</div> <div>AREA REFERENCED</div> <div>TYPICAL EQUIPMENT</div> <div>10000</div> <div>INLET GAS AREA</div> <div>SLUG CATCHERS & SEPARATORS</div> <div>20000</div> <div>CRUDE OIL TRANSFER EQUIPMENT</div> <div>LINE HEATERS, PUMPS & SURGE VESSELS</div> <div>30000</div> <div>CONDENSATE HANDLING</div> <div>PUMPS, WATER SEPARATION & SURGE/STORAGE</div> <div>40000</div> <div>COMPRESSION</div> <div>ENGINE/COMP. SKID EQUIP., COOLERS, ON-SKID SEPARATORS</div> <div>50000</div> <div>DISCHARGE SEPARATION, DEHYDRATION</div> <div>DISCHARGE SEPARATORS, FILTERS & DEHYDRATION EQUIP.</div> <div>60000</div> <div>AMINE SYSTEM</div> <div>CONTACTOR, REGEN SYSTEM & FILTERS</div> <div>70000</div> <div>OUTLET AREA</div> <div>GAS METERS, LACTS, PUMPS & STORAGE</div> <div>80000</div> <div>SWD</div> <div>TANKS & PUMPS</div> <div>90000</div> <div>FLARE & UTILITIES</div> <div>OIL STABILIZATION FACILITIES</div> <div>AREA NUMBERS</div> <div>AREA REFERENCED</div> <div>TYPICAL EQUIPMENT</div> <div>10000</div> <div>INLET AREA</div> <div>SLUG CATCHERS, SURGE/SEPARATOR VESSELS, LACTS & INLET HEATERS</div> <div>20000</div> <div>-</div> <div>-</div> <div>30000</div> <div>PROCESS EQUIPMENT</div> <div>VESSELS, TOWERS, EXCHANGERS, REFLUX SYSTEM</div> <div>40000</div> <div>COMPRESSION</div> <div>COMPRESSORS, AFTERCOOLERS, COMPRESSOR ASSOCIATED VESSELS</div> <div>50000</div> <div>NGL STORAGE AND LACT</div> <div>STORAGE VESSELS, PUMPS, METERS, LP GAS METERS</div> <div>60000</div> <div>PRODUCT COOLING</div> <div>HEAT EXCHANGERS, CHILLERS, PUMPS, REFRIGERANT COMPRESSORS</div> <div>70000</div> <div>OUTLET AREA</div> <div>OIL BOOSTER PUMPS, OIL PIPELINE PUMPS, OIL LACT</div> <div>80000</div> <div>HEAT MEDIUM SYSTEM</div> <div>HEATERS, HM PUMPS, FILTERS</div> <div>90000</div> <div>FLARE & UTILITIES</div> <div>FLARE, KNOCKOUTS, ECD'S, T.O., AIR COMPRESSORS, DRAINS, FUEL GAS</div> <div>GAS PLANTS</div> <div>AREA NUMBERS</div> <div>AREA REFERENCED</div> <div>TYPICAL EQUIPMENT</div> <div>10000</div> <div>INLET GAS AREA</div> <div>SLUG CATCHERS & SEPARATORS</div> <div>20000</div> <div>CRUDE OIL TRANSFER EQUIPMENT</div> <div>LINE HEATERS, PUMPS & SURGE VESSELS</div> <div>30000</div> <div>CONDENSATE HANDLING</div> <div>PUMPS, WATER SEPARATION & SURGE/STORAGE</div> <div>40000</div> <div>COMPRESSION</div> <div>ENGINE/COMP. SKID EQUIP., COOLERS, ON-SKID SEPARATORS</div> <div>50000</div> <div>DISCHARGE SEPARATION, DEHYDRATION</div> <div>DISCHARGE SEPARATORS, FILTERS & DEHYDRATION EQUIP.</div> <div>60000</div> <div>AMINE SYSTEM</div> <div>CONTACTOR, REGEN SYSTEM & FILTERS</div> <div>70000</div> <div>OUTLET AREA</div> <div>GAS METERS, LACTS, PUMPS & STORAGE</div> <div>80000</div> <div>SWD</div> <div>TANKS & PUMPS</div> <div>90000</div> <div>FLARE & UTILITIES</div> <div>PRODUCTION FACILITIES</div> <div>AREA NUMBERS</div> <div>AREA REFERENCED</div> <div>TYPICAL EQUIPMENT</div> <div>10000</div> <div>WELL HEADS</div> <div>WELL HEADS & METHANOL TANKS</div> <div>20000</div> <div>INLET AREA</div> <div>SEPARATORS, BURNER UNITS, BURNER MANAGEMENT, FUEL SCRUBBERS</div> <div>30000</div> <div>OIL SYSTEM</div> <div>BULK SEPARATORS, VAPOR RECOVERY TOWERS & LACTS</div> <div>40000</div> <div>GAS SYSTEM</div> <div>GAS SCRUBBERS, DEHYs, AMINE & GAS METERS</div> <div>50000</div> <div>FLARE SYSTEMS</div> <div>FLARES, VENT & PURGE SYSTEMS, ECDs</div> <div>60000</div> <div>STORAGE AREA</div> <div>OIL TANKS, WATER TANKS, RECIRC PUMPS</div> <div>70000</div> <div>UTILITIES</div> <div>AIR COMPRESSORS, GENERATORS</div> <div>80000</div> <div>GAS COMPRESSORS</div> <div>VRUS & GAS COMPRESSORS</div> <div>90000</div> <div>WATER TRAIN</div> <div>SWD PUMPS & WATER METERS</div>			<div>P&ID NUMBERING STANDARD</div> <div>FUNCTIONAL LOCATION NUMBER</div> <div>DRAWING TYPE</div> <div>P&ID DRAWING NUMBERS(*)</div> <div>*P&ID DRAWING NUMBERS ARE BASED OFF OF THE SITE/EQUIPMENT AREA NUMBERS. (SEE EQUIPMENT IDENTIFICATION CODE AND NUMBERING SYSTEM)</div>			<div>PIPE SPECIFICATIONS NAMING CONVENTION</div> <div>FLANGE CLASS</div> <div>MATERIAL</div> <div>SERVICE</div> <div>GOVERNING CODE</div> <div>GOVERNING CODE</div> <div>1 – ASME B31.1</div> <div>3 – ASME B31.3</div> <div>4 – ASME B31.4</div> <div>8 – ASME B31.8</div> <div>SERVICE</div> <div>A – GENERAL SERVICE</div> <div>B – SOUR SERVICE</div> <div>C-Z – OTHER SERVICE FLUIDS</div> <div>L – DRAINS, GLYCOL, CRUDE OIL</div>			<div>INSULATION AND TRACE CODE</div> <div>XX" C=COLD</div> <div>XX" H=HOT</div> <div>XX" P=PERSONNEL</div> <div>E/T S=SWT</div> <div>TRACE TYPE</div> <div>ST=STEAM</div> <div>ET=ELECTRIC</div> <div>MT=MEDIA TRACE I.e., GLYCOL, HOT OIL</div>					<div>MANUAL VALVE NUMBERING SYSTEM</div> <div>REPRESENTS PID</div> <div>DRAWING NUMBER</div> <div>UNIQUE 3 DIGIT NUMBER</div> <div>NUMBER SHALL COMMENCE ON EACH SHEET WITH 001 AND CONTINUE SEQUENTIALLY</div>					<div>ABBREVIATIONS</div> <div>ATM = ATMOSPHERE</div> <div>AG = ABOVE GRADE</div> <div>AV = AIR VENT (AUTOMATIC)</div> <div>BE = BURNER ELEMENT</div> <div>BF = BLIND FLANGE</div> <div>BC = BELOW GRADE</div> <div>CBD = CONTINUOUS BLOWDOWN</div> <div>CD = CLOSED DRAIN</div> <div>CH = CHOKE</div> <div>CHO = CHAIN OPERATED</div> <div>CO = CLEAN OUT</div> <div>CP = CORROSION PROBE</div> <div>CSC = CAR SEAL CLOSED</div> <div>CSO = CAR SEAL OPEN</div> <div>DC = DRAIN CONNECTION</div> <div>FC = FAIL CLOSED</div> <div>FL = FAIL LAST</div> <div>FO = FAIL OPEN</div> <div>GPH = GALLONS PER HOUR</div> <div>GPM = GALLONS PER MINUTE</div> <div>HC = HOSE CONNECTION</div> <div>HHLL = HIGH HIGH LIQUID LEVEL</div> <div>HLL = HIGH LIQUID LEVEL</div> <div>HP = HIGH PRESSURE</div> <div>HSD = HAND SHUTDOWN</div> <div>IA = INSTRUMENT AIR</div> <div>IGN = IGNITION</div> <div>LC = LOCK CLOSED</div> <div>LD = LIQUID DRAIN</div> <div>LLL = LOW LIQUID LEVEL</div> <div>LLLL = LOW LOW LIQUID LEVEL</div> <div>LO = LOCK OPEN</div> <div>LP = LOW PRESSURE</div> <div>MIN = MINIMUM DISTANCE</div> <div>M = THOUSAND</div> <div>MM = MILLION</div> <div>MM = MANWAY</div> <div>N2 = NITROGEN</div> <div>NC = NORMALLY CLOSED</div> <div>NLL = NORMAL LIQUID LEVEL</div> <div>NO = NORMALLY OPEN</div> <div>OD = OPEN DRAIN</div> <div>OS = OVERALL DIAMETER (SIZE)</div> <div>PB = PUSH BUTTON</div> <div>PC = PURGE CONNECTION</div> <div>QD = QUICK DISCONNECT</div> <div>R = RESET</div> <div>ROC = RATE OF CHANGE</div> <div>ROV = REMOTE OPERATED VALVE</div> <div>RTD = RESISTANCE TEMP. DETECTOR</div> <div>SC = SAMPLE CONNECTION</div> <div>STD. CU. FT. PER DAY</div> <div>SCFH = STD. CU. FT. PER HOUR</div> <div>SCFM = STD. CU. FT. PER MINUTE</div> <div>SD = SHUTDOWN</div> <div>SIS = SAFETY INSTRUMENT SYSTEM</div> <div>SOC = STEAM OUT CONNECTION</div> <div>SCOPE OF WORK</div> <div>SR = STRESS RELIEF</div> <div>SS = SELECTOR SWITCH</div> <div>ST = START UP</div> <div>TB = TEMPORARY STRAINER</div> <div>TIGHT SHUT OFF</div> <div>TYP = TYPICAL</div> <div>(V) = VENDOR SUPPLIED</div> <div>VB = VACUUM BREAKER</div> <div>WC = WATER COLUMN</div>								
NOTES:			REFERENCE DRAWINGS		REVISIONS		OXY Rockies		PIPING & INSTRUMENTATION DIAGRAM																					
									MECHANICAL LEGEND																					
									DRAWN BY: MJ																					
									APPROVED: –																					
									CREATION DATE: –																					
									APPR. DATE: –																					
									AFE No.:																					
									DWG. No.:																					
									OXY-PID-STD-00010																					
									SHEET No. 10F 4																					
									SCALE: NONE																					
									OXY STANDARD																					

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TANKS	VESSELS		EXCHANGERS		PUMPS	
FLAT ROOF	VERTICAL VESSEL	VERTICAL VESSEL WITH SKIRT	EXCHANGER - DOUBLE END		PUMP - VERTICAL (Y AXIS)	
			EXCHANGER - SINGLE END	PUMP - HORIZONTAL (Y AXIS)		
				EXCHANGER - DOUBLE END KETTLE	PUMP - CENTRIFUGAL (Y AXIS)	PUMP - DUAL
EXCHANGER - SINGLE END KETTLE	PUMP - SUMP (Y AXIS)	PUMP - INLINE (Y AXIS)				
	EXCHANGER - SUPER	PUMP - ROTARY	PUMP - VACUUM			
EXCHANGER - PROCESS FLOW		PUMP - WITH STEAM TURBINE	PUMP - AIR OPERATED PUMP			
	LEAN/RICH AMINE EXCHANGER	PULSATION DAMPENER				
FUEL GAS HEATER	MOTOR	EQUIPMENT TAG				
AFTER COOLER WITH MOTOR	TAG DESC --- TAG					
NOTES:		REFERENCE DRAWINGS	REVISIONS	PIPING & INSTRUMENTATION DIAGRAM EQUIPMENT LEGEND		
				DRAWN BY: MJ		
				APPROVED: --		
				SCALE: NONE		
				CREATION DATE: --		
				APPR. DATE: --		
				DWG. No.: OXY-PID-STD-00011		
				SHEET No. 2 OF 4		
				3		



1. P&ID DETAILS ARE TYPICAL UNLESS INDICATED OTHERWISE ON THE P&ID WITH SPECIFIC APPLICATION.
2. LEVEL GAUGES SHOULD SPAN THE OPERATIONAL RANGE WITH 3" EXTRA VISIBLE GLASS AT HIGH AND LOW LEVELS. LEVEL GAUGE TO BE SUPPLIED AS AN ASSEMBLED UNIT.
3. LSH/LSL BRIDLES SHALL BE PROVIDED WITH EXTRA LENGTH BETWEEN CENTER-TO-CENTERS TO ALLOW FOR FIELD ADJUSTMENT WHERE POSSIBLE.
4. CORROSION COUPON TO BE EXTRACTED WITH A TOOL HAVING A DOUBLE BLOCK AND BLEED VALVE.
5. VALVES USED ON AMINE UNIT TO HAVE COMPATIBLE SOFT GOODS FOR AMINE SERVICE.

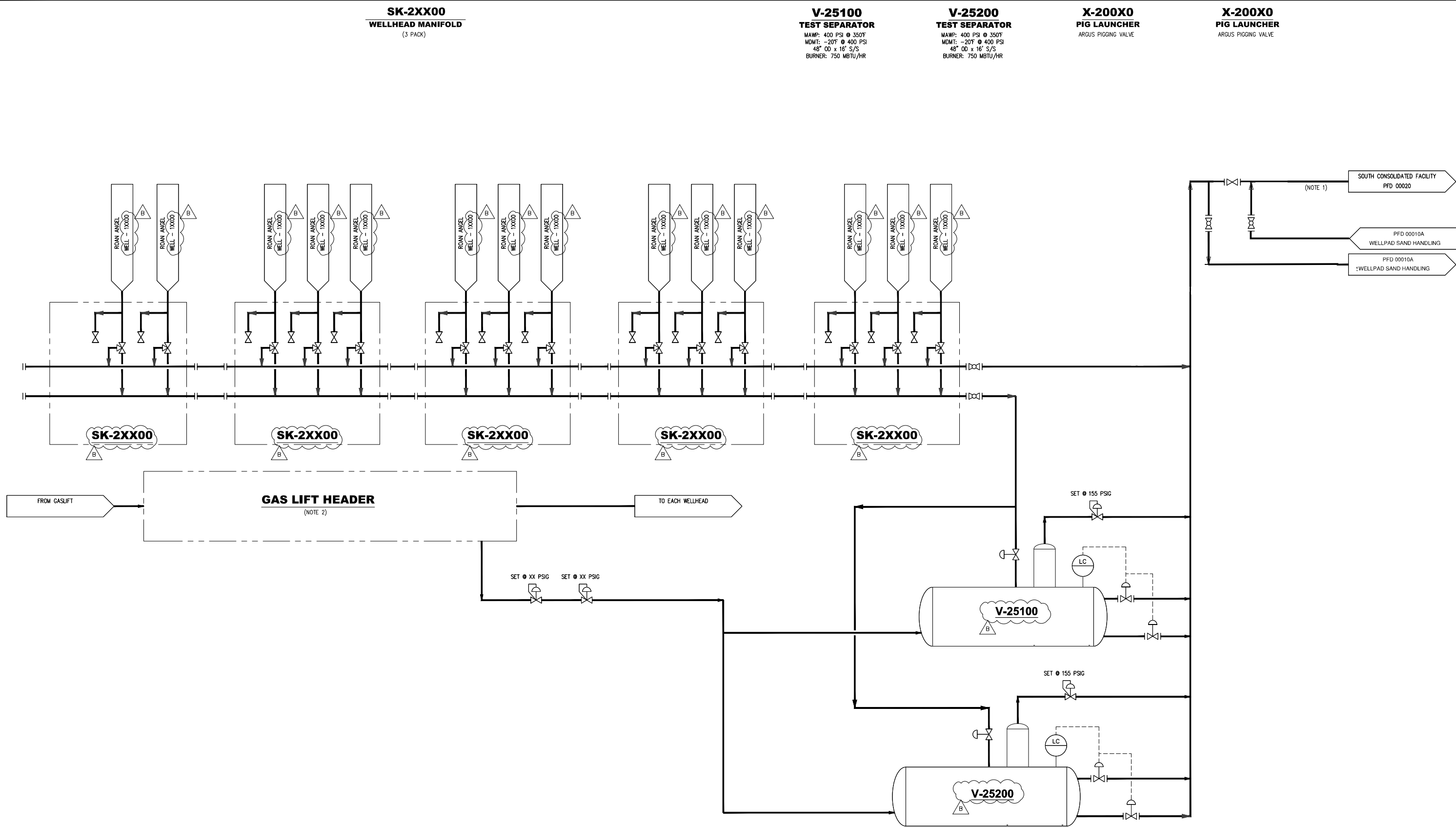


PIPING & INSTRUMENTATION DIAGRAM

DRAWN BY: MJ	CREATION DATE: --	AFE No.:
APPROVED: --	APPR. DATE: --	
SCALE: NONE	DWG. No.: OXY-PID-STD-00012	SHEET No. 3 OF 4
		2

FILE LOCATION: L:\SharedData\Denver\RockiesFC\DWGS\LEGENDS\OXY-PID-STD-00013.dwg
LAST SAVED: 1/8/2020
BY: Max Palchikto

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NOTES:


1. AFTER PEAK PRODUCTION 2ND FLOWLINE WILL BE ISOLATED AND REMOVED FORM SERVICE; 3-5 YEARS AFTER PEAK
2. GAS LIFT HEADER PRESSURE - 1250 PSIG.

[illegible]

SOUTH CONSOLIDATED FACILITY

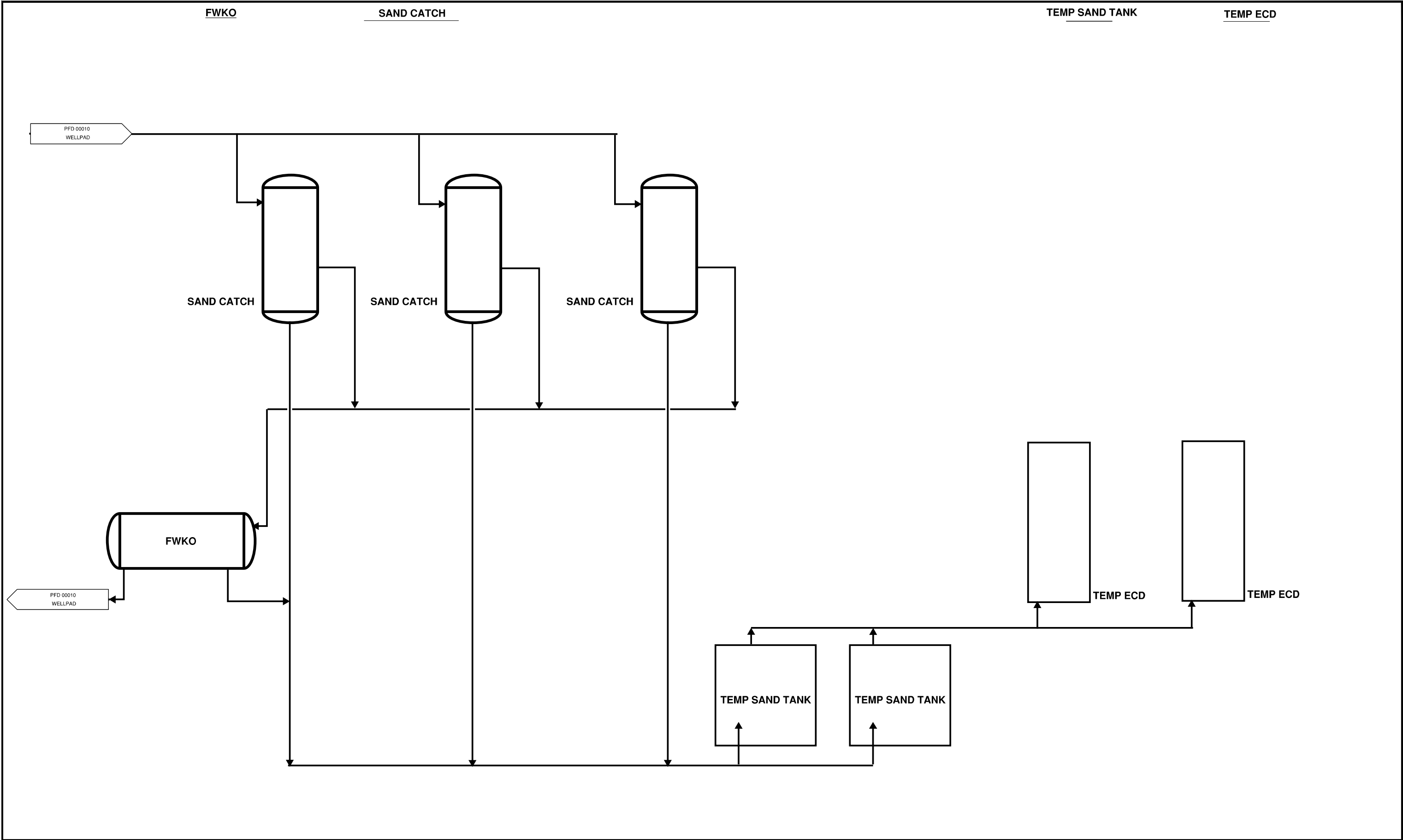
PROCESS FLOW DIAGRAM

ROAN ANGEL WELLPAD

DRAWN BY:	CREATION DATE:	AFE No.: --	
APPROVED:	APPR. DATE:		
SCALE: NONE	DWG. No.: PFD-0010	SHEET No. -- OF --	


FILE LOCATION: 0:\604107 - Bronco Combined Wellpad\Drawings\2 P&IDs and PFDs\2 P&IDs and PFDs\0010.dwg	LAST SAVED: 5/1/2023	BY: Brian Boora	PLOT STYLE: Zop8&K.ctb
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NOTES:

REFERENCE DRAWINGS		REVISIONS				
DWG. NO.	TITLE	NO.	DESCRIPTION	BY	CHK.	APPR.
				DATE	DATE	DATE



BRONCOS CONSOLIDATED FACILITY

PIPING AND INSTRUMENTATION DIAGRAM

WELLPAD SAND HANDLING

ROAN ANGEL WELLPAD

DRAWN BY:	CREATION DATE:	AFE No.: -
APPROVED:	APPR. DATE:	
	DWG. No.:	
SCALE: NONE	PFD-0010A	SHEET No. -OF -

The diagram illustrates a wellhead system with the following components and flow paths:

- Wellhead Inlets:** Five inlets labeled "BULK FLUID FROM WELLPAD PFD-0010" through "PFD-0012" feed into a manifold.
- Valves:** The manifold includes valves X-30010, X-30020, X-30030, and X-30040. A "TO WELLHEAD AUTO-CHOKE CONTROL" line is also shown.
- Slug Catchers:** Three slug catchers (V-30100, V-30200, V-30300) receive fluid from the manifold. Each has a "TO ATMOS" vent, a pressure controller (PC), and an ultrasonic level sensor (FT). They are set at 10 PSIG.
- Pig Receiver:** X-30010/20/30/40, an ARGUS PIGGING VALVE, is connected to the slug catchers.
- Line Heaters:** H-30300 and H-30400 are connected to the slug catchers. They have pressure controllers (PC), temperature controllers (TC), and flow sensors (FT). They are set at 120°F.
- Flow Paths:**
 - From V-30100: "A" to H-30300, "C" to H-30400, and "SLUG CATCHER SALES GAS TO PFD-0022".
 - From V-30200: "B" to H-30300 and "D" to H-30400.
 - From V-30300: "E" to H-30300 and "F" to H-30400.
- Outputs:**
 - "LACT REJECT/RECYCLE STREAM FROM X-50150/50350" from the slug catchers.
 - "TO 1ST STAGE BULK SEPARATOR TO PFD-0022" from the line heaters.

X-60100 WATER PUMP
DESIGN: 15000 BPD @ 225 PSID
DUTY: 80 HP

X-60200 WATER PUMP
DESIGN: 15000 BPD @ 225 PSID
DUTY: 80 HP

X-60300 WATER PUMP
DESIGN: 15000 BPD @ 225 PSID
DUTY: 80 HP

X-60400 WATER PUMP
DESIGN: 15000 BPD @ 225 PSID
DUTY: 80 HP

X-50100/50 LACT PUMP
DESIGN: 15000 BPD
BOOSTER PUMP @ 50 PSID
DUTY: 80 HP
SALES LINE PUMP @ 235 PSID
DUTY: 85 HP

X-50200/50 LACT PUMP
DESIGN: 15000 BPD
BOOSTER PUMP @ 50 PSID
DUTY: 80 HP
SALES LINE PUMP @ 235 PSID
DUTY: 85 HP

X-50300/50 LACT PUMP
DESIGN: 15000 BPD
BOOSTER PUMP @ 50 PSID
DUTY: 80 HP
SALES LINE PUMP @ 235 PSID
DUTY: 85 HP

X-60500 WATER METER SKID

X-50400/50500/50600 LACT METER SKID

TO SLUG CATCHER LIQUID OUTLET TO PFD-0021

FROM V-30600 2ND STAGE SEPARATOR PFD-0021

V-30600 2ND STAGE SEPARATOR FROM PFD-0021

OIL SALES

V-60100 FROM PFD-0021

V-60100 FROM PFD-0021

TO WATER DISPOSAL TO PFD-0025

X-60400

X-60300

X-60200

X-60100

X-60500
METER SKID

X-50100/50


X-50200/50

X-50300/50

X-50400
METER SKID
140-150 PSIG

X-50500
METER SKID

X-50600
METER SKID

REFERENCE DRAWINGS		REVISIONS					
DWG. NO.	TITLE	NO.	DESCRIPTION	BY DATE	CHK. DATE	ERE DATE	J/K DATE
			ISSUED FOR APPROVAL	BSV 04/19/23		ERE 04/19/23	J/K 04/19/23



DRAWN BY:	CREATION DATE:	AFE No.: -
APPROVED:	APPR. DATE:	
SCALE: NONE	DWG. No.: PFD-0024	SHEET No. - OF - 