

Number	Equipment Name/Model	MAWP (psi)	Status	QTY
1	Wellheads	10,000	Permanent	23
2	Flowback Manifold and Choke	10,000	Temporary	1
3	Enclosed 500 BBL Water Tank	1	Temporary	1
4	Enclosed 500 BBL Oil and Water Tank	1	Temporary	1
5	High Pressure 4 Phase Separator (includes measurement devices)	2,000	Temporary	1
6	High Pressure Combustor QTI Q5000		Temporary	1
7	Low Pressure Combustor QTI Q5000		Temporary	1
8	2" 1502 Steel Flowline (welhead fluids to manifold)	10,000	Temporary	1
9	2" 1502 Steel Flowline (welhead fluids to water tank)	10,000	Temporary	1
10	2" 1502 Steel Flowline (welhead fluids to separator)	10,000	Temporary	1
11	2" 1502 Steel Flowline (welhead fluids to Oil and Water Tank)	10,000	Temporary	1
12	3" 206 Steel Flowline (high pressure gas from separator to combustor)	2,000	Temporary	1
13	3" 206 Steel Flowline (residue gas to low pressure combustor)	2,000	Temporary	1
14	Manual ESD/Isolation Valves	10,000	Temporary	13
15	Pnuematically Actuated Valve (back pressure regulator)	2,000	Temporary	1
16	Float Controlled Valve (welhead liquids)	2,000	Temporary	1

\*The Process Flow Diagram depicted represents flowback. Drillout is a separate operation in advance of flowback and is not depicted on this Process Flow Diagram.

NOTES: PFD IS FOR REVIEW PURPOSES ONLY. DESIGN AND LAYOUT ARE SUBJECT TO FUTURE CHANGE.

REV	DESCRIPTION	BY	DATE	CHECKED BY	CHECKED DATE	APR BY	APR DATE
A	Issued For Review	BC	JUNE 2022				


















PRELIMINARY FLOWBACK PROCESS FLOW DIAGRAM

DENALI STATE PAD WATTENBERG			
SIZE	FACILITY #	DRAWING NO. DENALI PFD-1001	REV A
SCALE	N/A	SHEET	1 OF 1



LEGEND



TUBING SENSE/SUPPLY

GAS

WATER

OIL

OIL/GAS/WATER

CONTROL VALVE

SHUTDOWN VALVE

PRODUCTION CHOKE

CORIOLIS METER

TURBINE METER






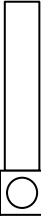

PRESSURE REGULATOR

VALVE

PUMP

COMPRESSOR

WELLHEAD



HORIZONTAL VESSEL

ECD

WATER HAULER TRUCK

TANK

VERTICAL VESSEL

OXYGEN DESTRUCTION SYSTEM

LINE HEATER

SDV – SHUTDOWN VALVE

FCV – FLOW CONTROL VALVE

SD – SHUTDOWN

LSHH – HIGH LEVEL SHUTDOWN

SD – SHUTDOWN

LC – LEVEL CONTROLLER

LCV – LEVEL CONTROL VALVE

H2O – WATER

I/A – INSTRUMENT AIR

FIT – FLOW INDICATING TRANSMITTER

VHLP – VERTICAL HIGH/LOW PRESSURE SEPARATOR

LIT – LEVEL INDICATING TRANSMITTER

VRU – VAPOR RECOVERY UNIT

LP SEP – LOW PRESSURE SEPARATOR

PCV - PRESSURE CONTROL VALVE

ECD – EMISSION CONTROL DEVICE

K.O. - KNOCKOUT

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REV	DESCRIPTION	BY	DATE	CHECKED BY	CHECKED DATE	APR BY	APR DATE
A	Issued For Review	CDG	12/13/2021				
B	Issued For Review	JAS	6/23/2022				


















PRODUCTION PROCESS FLOW DIAGRAM

DENALI STATE 23 WELL PAD AT TIME OF TURN-IN-LINE (TIL)  
WATTENBERG

SIZE	FACILITY #	DRAWING NO. DENALI STATE TIL-PFD-1000	REV B
SCALE	N/A	SHEET	2 OF 2



LEGEND



TUBING SENSE/SUPPLY

GAS

WATER

OIL

OIL/GAS/WATER

CONTROL VALVE

SHUTDOWN VALVE

PRODUCTION CHOKE

CORIOLIS METER

TURBINE METER






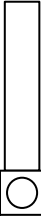

PRESSURE REGULATOR

VALVE

PUMP

COMPRESSOR

WELLHEAD



HORIZONTAL VESSEL

ECD

WATER HAULER TRUCK

TANK

VERTICAL VESSEL

OXYGEN DESTRUCTION SYSTEM

LINE HEATER

SDV – SHUTDOWN VALVE

FCV – FLOW CONTROL VALVE

SD – SHUTDOWN

LSHH – HIGH LEVEL SHUTDOWN

SD – SHUTDOWN

LC – LEVEL CONTROLLER

LCV – LEVEL CONTROL VALVE

H2O – WATER

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FIT – FLOW INDICATING TRANSMITTER

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LIT – LEVEL INDICATING TRANSMITTER

VRU – VAPOR RECOVERY UNIT

LP SEP – LOW PRESSURE SEPARATOR

PCV - PRESSURE CONTROL VALVE

ECD – EMISSION CONTROL DEVICE

K.O. - KNOCKOUT

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REV	DESCRIPTION	BY	DATE	CHECKED BY	CHECKED DATE	APR BY	APR DATE
A	Issued For Review	CDG	12/13/2021				
B	Issued For Review	JAS	6/23/2022				



PRODUCTION PROCESS FLOW DIAGRAM

DENALI STATE 23 WELL PAD LATE LIFE WATTENBERG			
SIZE	FACILITY #	DRAWING NO. DENALI STATE LL-PFD-1000	REV B
SCALE	N/A	SHEET	2 OF 2