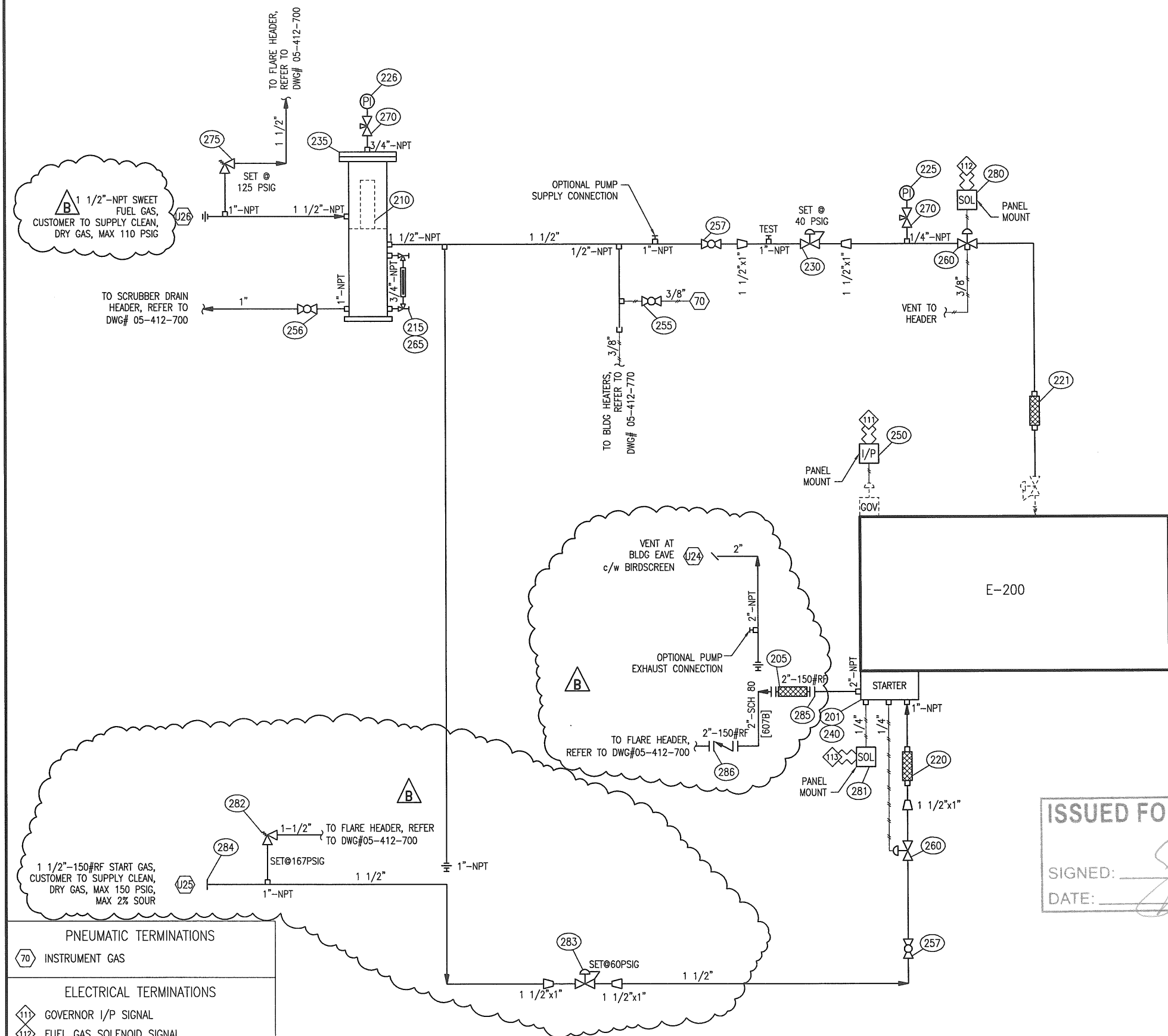


E-200 ENGINE
WAUKESHA F18GL



ISSUED FOR CONSTRUCTION

SIGNED: *[Signature]*

DATE: *Jun 14/12*

BILL OF MATERIALS			
MK	QTY	PART NUMBER	DESCRIPTION
201	1	ENG-331	ADAPTER, STARTER OUTLET, 2" 90° THRD ELBOW, "TDI"
205	1	HOS-7212	HOSE, FLEX, 2" RF, 150#, 12" LG, SS
210	1	BEP-FG-24	FILTER, GAS, "PECO" MODEL FG-24
215	1	LLG-106	GAUGE, LEVEL, REFLEX, 1/2"-NPT, "PENBERTHY" MODEL 1RL6, 2025 PSIG @ 100°F
220	1	HOS-7010	HOSE, FLEX, 1"-MNPT X 12" LG, SS CORRUGATED, T316SS OVERBRAID
221	1	HOS-7015	HOSE, FLEX, 1 1/2"-MNPT X 12" LG, SS CORRUGATED, SS OVERBRAID, C/W SCH 80 THREADED ENDS, 420 PSIG MAWP @ 70° F
225	1	PI-25-0060	INDICATOR, PRESS, "WGI" MODEL WJ7846P, 0-60 PSIG, 2 1/2" DIAL, 1/4"-NPT, 316LSS TUBE & SOCKET, BOTT CONN, DUAL, LF
226	1	PI-25-0100	INDICATOR, PRESS, "WGI" MODEL WJ7848P, 0-100 PSIG, 2 1/2" DIAL, 1/4"-NPT BOTTOM CONNECTION, 316LSS TUBE & SOCKET, DUAL SCALE, LF
230	1	PRV-497	REGULATOR, 1"-NPT, "FISHER" MODEL 627, 1000 PSIG MAWP, MAXIMUM OUTLOAD PRESSURE OF 1000 PSIG, 1/2" ORIFICE, DI BODY, ALUMINUM TRIM, 15-40 PSIG RANGE
235	1	VES-536R	SEPARATOR, FUEL GAS, 6 5/8" OD X 3'-6" S/S, 230 PSIG @ 300°F, REFER TO STD DWG BES-530-6-RHS, S/N: 1344C
240	1	ENG-323	STARTER, PRE-ENGAGED, "TDI" MODEL T312-60015-01R, 1" INLET x 2" OUTLET, 60-40 PSIG RANGE, 11T-6/8 PINION, DUAL TURBINE, PROOF PRESSURE 300 PSIG
250	1	PNL-113	TRANSDUCER, I/P, 4-20 mA IN, 3-15 PSIG OUT, "FISHER" MODEL I2P-X2B, XP, CSA, CLASS I, DIV. 1, GROUPS C&D (c/w PANEL)
255	1	BVSA-052FS	VALVE, BALL, 1/2"-NPT, "M.A. STEWART" MODEL G2, 2000# WOG, FULL PORT, 316SS BODY, PTFE SEALS, LOCKING HANDLE
256	1	BVSA-102FS	VALVE, BALL, 1"-NPT, "M.A. STEWART" MODEL G2, 2000# WOG, FULL PORT, 316SS BODY, PTFE SEALS, LOCKING HANDLE
257	2	BVSA-152FS	VALVE, BALL, 1 1/2"-NPT, "M.A. STEWART" MODEL G2, 2000# WOG, FULL PORT, 316SS BODY, PTFE SEALS, LOCKING HANDLE
260	2	FSV-110	VALVE, FUEL, RELAY, QUICK OPEN, 1 1/2"-NPT, "TDI" MODEL RLVA25683-001-2-21, 450 PSIG MAWP, ALUMINUM BODY, 1/4"-NPT VENT
265	1	LLG-190Q	VALVE SET, GAUGE, 3/4"-NPT, "QUALITY" MODEL Q146, 1500 PSIG @ 400°F, A105 BODY, TEFLON PACKING, NACE MR0175
270	2	NVSA-026F	VALVE, NEEDLE, 1/4"x1/4"-FNPT, "WGI" MODEL WN1612P, 6000 PSIG MAWP, ZINC PLATED A105 CS BODY, 316SS STEM, PTFE PACKING
275	1	PSV-123F	VALVE, RELIEF, 1"-MNPT X 1-1/2"-FNPT, "TAYLOR" MODEL 8200, "f" ORIFICE, CS BODY, SS SPRING, S/N: 32518-7
280	1	SOL-101	VALVE, SOLENOID, 3 WAY, 24VDC, 1/4"-NPT, "PARKER" MODEL 7133TVN2JV00NOH111C2, 100 PSID MAX, 5/64" ORIFICE, SS BODY
281	1	SOL-004	VALVE, SOLENOID, 3 WAY, 24VDC, 1/4"-NPT, "ASCO" MODEL EF8320G231-24, 160 PSID MAX, 1/16" ORIFICE, SS BODY, NC
282	1	PSV-1010	VALVE, PSV, 1" MNPT X 1.5" FNPT, "E", CONV, NACE PRIMARY MODEL: 27EA34-M20
283	1	PRV-495	REGULATOR, 1"-NPT, 70-150 RANGE MFG: FISHER MODEL: 627-495
284	1	BWF-D0C	FLANGE, THRD, 1 1/2"-150#RF, SA-105N
285	1	BWF-D0D	FLANGE, SCREWED, RF, 2"-150#
286	1	WDF-030N	VALVE, CHK, DUAL FLAPPER, 2", WAFER RF, CL150, SOUR MFG: MERIDIAN MODEL: PW08-002D10-3DB

GENERAL NOTES:
1. ALL END DEVICES ARE LOCALLY MOUNTED UNLESS OTHERWISE NOTED

REV	DATE	BY	APPR	DESCRIPTION
D	12-06-14	GW	SZ	ADDED LINE NUMBERS
C	12-06-06	GW	SZ	REVISED START GAS INLET FLANGE
B	12-05-31	GW	SZ	LEASE TO PENNWEST
A	07-08-29	BES	LS	AS BUILT
O	07-01-15	BES	LS	ISSUED FOR CONSTRUCTION

REVISIONS			
NORTH SHOP 5475 - 56th AVENUE S.E. CALGARY, AB T2C 3X6 PHONE: (403) 203-4545 FAX: (403) 236-4463		SOUTH SHOP 6900 - 112th AVENUE S.E. CALGARY, AB T2C 4Z1 PHONE: (403) 235-5877 FAX: (403) 272-7749	
BIDELL™ GAS COMPRESSION			
ENGINE FUEL & START GAS UTILITY FLOW DIAGRAM (LOW PRESSURE) WAUKESHA F18GL			
CUSTOMER: PENNWEST EXPLORATION LOCATION: SWAN HILLS			
LSD: 10-32-067-09 W5M		JOB#:	05-412
DWN BES	DATE 07-01-15	SCALE NTS	DWG# 05-412-720
			REV D

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