

**Bill of Materials****BOM****Name:** 10822 - TPS 600 - Anderson Exploration**As Built****Location:** Dreau LSD: 1-15-78-21-W5M

<b>Tag #</b>	<b>Item Description</b>	
FG-211	Henry Sight Flow Glass Model LI-48-½ c/w ½" NPT connections Process Fluid: Compressor Lube Oil/Natural Gas	Rev. # 0
FO-206	Frick Compressor Oil Flow Orifice <b>Note: Supplied with Compressor</b>	Rev. # 0
FO-228	Minimum Flow Orifice Plate 1/8" Opening, 304 SS, to fit ¾"-300# flanged conn. 2 5/8" OD, c/w 1/8" bore. No handle, no stamp required Process Fluid: Compressor Lube Oil	Rev. # 0
G-311	Fisher Governor Actuator Model # B321N-2R Pneumatic Input: 3 to 15 psi, ¾" travel, pressure to close Process Fluid: Instrument Gas	Rev. # 0
LC-103	Murphy Level Controller Model L-1200-N-DVO for dump valve operation c/w buoyglass displacer, 2" NPT process connection 1/8" NPT inlet connection, ¼" NPT outlet connection Process Fluid: Water/Natural Gas Condensate <b>Note: Level Cage supplied by TPS</b>	Rev. # 0
LG-106	Reflex Level Gauge Make: Penberthy Glass Model # 2RL8 Gauge Valve Model # 330J (1 pair) Description: 25¼" visible length reflex glass, ¾" NPT process conn., ½" NPT gauge conn. Rated 1750 psig at 300° F Process Fluid: Water/Natural Gas Condensate	Rev. # 0
LG-219	Reflex Level Gauge Make: Penberthy Glass Model # 2RL4 Gauge Valve Model # 330J (1 pair) Description: 15" visible length reflex glass, ¾" NPT process conn., ½" NPT gauge conn. Rated 2020 psig at 300° F Process Fluid: Compressor Lube Oil/Natural Gas	Rev. # 0
LG-313	Tubular Level Gauge Glass Model # N7A Gauge Glass 5/8" OD red line glass by 14" OAL, Gauge Valve ½" (1 pair), Steel material, c/w ½" NPT process connection Process Fluid: Engine Oil	Rev. # 0
LG-316	Tubular Level Gauge Glass Model # N7A Gauge Glass 5/8" OD red line glass by 14" OAL, Gauge Valve 1/2" (1 pair), Steel Material, c/w 1/2" NPT process connection Process Fluid: Turbo 50/50 Glycol	Rev. # 0

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LG-317	Tubular Level Gauge Glass Model # N7A Gauge 5/8" OD red line glass by 14" OAL, Gauge Valve 1/2" (1 pair), Steel material, c/w 1/2" NPT process connection Process Fluid: Jacket Water 50/50 Glycol	Rev. # 0
LIC-314	Kenco Level Controller Model LCE9 c/w 1/2" NPT inlet conn., 1/2" NPT process conn. Process Fluid: Engine Lube Oil	Rev. # 0
LSHH-102	Murphy Level Control Switch Model L1100, Electric Level Switch c/w 1 1/2" MNPT process conn., SPDT snap switch Explosion Proof Class 1, Div. 1, Group D, CSA approved. Process Fluid: Water/Natural Gas Condensate	Rev. # 0
LSLL-218	Murphy Level Control Switch Model L1100, Electric Level Switch c/w 1 1/2" MNPT process conn., SPDT snap switch Explosion Proof Class 1, Div. 1, Group D, CSA approved. Process Fluid: Natural Gas/Compressor Lube Oil	Rev. # 0
LSLL-314	Kenco Level Switch c/w SPDT switch, Class 1, Div. 1, Group D, CSA approved <b>Note: switch is an integral part of LIC-314</b> Process Fluid: Engine Lube Oil	Rev. # 0
LSLL-315	Murphy Level Control Switch Model L1100, Electric Level Switch c/w 1 1/2" MNPT process conn., SPDT snap switch Explosion Proof Class 1, Div. 1, Group D, CSA approved Process Fluid: Turbo Water 50/50 Glycol	Rev. # 0
LSLL-318	Murphy Level Control Switch Model L1100, Electric Level Switch c/w 1 1/2" MNPT process conn., SPDT snap switch Explosion Proof Class 1, Div. 1, Group D, CSA approved. Process Fluid: Jacket Water 50/50 Glycol	Rev. # 0
LV-103	Norriseal Level Control Valve Model # 2275-S-40RTV9BA4 c/w 1" NPT connections, std. materials, 4000 WOG pressure rating, Reverse Non-adjustable, Tee-body style, Viton seals, neoprene diaphragm, teflon packing, 316 SS trim material, 1/2" orifice, 0 to 20 psig, Fail Closed Process Fluid: Water/Natural Gas Condensate	Rev. # 0
PCV-103	Fisher Outlet Pressure Regulator Model 67CFR Set at 35 psi c/w 1/4" NPT connections, 30 to 60 psi spring range, Pressure Indicator Process Gas: Instrument Gas	Rev. # 0

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PCV-140	Fisher Outlet Pressure Regulator Model 67CFR Set at 35 psi c/w ¼" NPT connections, 5-35 psi spring range. Process Gas: Instrument Gas	Rev. # 1
PCV-150	Fisher Outlet Pressure Regulator Model 67CFR Set at 35 psi c/w ¼" NPT connections, 5-35 psi spring range. Process Gas: Instrument Gas <b>Note: Supplied with PV-150</b>	Rev. # 1
PCV-204	Fisher Outlet Pressure Regulator Model 67CFR Set at 20 psi c/w ¼" NPT connections, 5-35 psi spring range, Pressure Indicator Process Gas: Instrument Gas	Rev. # 0
PCV-213A	Fisher Outlet Pressure Regulator Model 627 Set at 100 psig c/w 1" NPT connections, 70 to 150 psig spring range, ½" orifice, ductile iron material of construction Process Gas: Fuel/Start Gas	Rev. # 0
PCV-213B	Fisher Outlet Pressure Regulator Model 627 Set at 90 psig c/w 1" NPT connections, 70 to 150 psi spring range, ½" orifice, ductile iron material of construction Process Gas: Fuel/Start Gas	Rev. # 0
PCV-215	Fisher Outlet Pressure Regulator Model 67CFR Set at 20 psi c/w ¼" NPT connections, 5-35 psi spring range. Process Gas: Instrument Gas <b>Note: Supplied with PV-215</b>	Rev. # 1
PCV-301	Fisher Outlet Pressure Regulator Model 627 Set at 22 psig c/w 1" NPT connections, 15 to 40 psi spring range, 3/8" orifice, ductile iron material of construction Process Gas: Fuel Gas	Rev. # 0
PCV-303	Fisher Outlet Pressure Regulator Model S201-M1 set at 7" WC c/w 1½" NPT connections <b>Note: Supplied with engine</b> Process Gas: Fuel Gas	Rev. # 0
PCV-324	Fisher Outlet Pressure Regulator Model 67CFR Set at 20 psi c/w ¼" NPT connections, 5-35 psi spring range. Process Gas: Instrument Gas <b>Note: Supplied with Gas Cooler</b>	Rev. # 1

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PI-306B	Wika Local Mounted Pressure Gauge Model # 233.53 c/w dual scale, 0 to 700 kPag/0 to 100 psig, 2½" dial, 316 SS tube, socket and tip material, ¼" NPT lower conn., liquid filled, blow out plug Process Fluid: Engine Lube Oil	Rev. # 0
PI-322	Wika Local Mounted Pressure Gauge Model # 233.53 c/w dual scale, 0 to 700 kPag/0 to 100 psig, 2½" dial, 316 SS tube, socket and tip material, ¼" NPT lower conn., liquid filled, blow out plug Process Fluid: 50/50 Glycol	Rev. # 0
PSV-101	Farris Pressure Safety Valve Model # 27DA23-M20 Set at 245 psig c/w ¾" MNPT inlet conn. x 1" FNPT outlet conn., 0.110 in <sup>2</sup> orifice, std. materials, NACE compliant on primary zone. Based on fire Process Fluid: Natural Gas	Rev. # 0
PSV-212	Farris Pressure Safety Valve Model # 26GA12-120 Set at 350 psig c/w 1½"-300# inlet x 2½"-150# outlet conn., 0.503 in <sup>2</sup> orifice ("G" designation), std. materials, NACE compliant on primary zone, conventional style Based on full flow of C-1 Process Fluid: Natural Gas	Rev. # 0
PSV-300	Farris Pressure Safety Valve Model # 26DA10-120 Set at 110 psig c/w 1"-150# inlet x 2"-150# outlet conn., 0.110 in <sup>2</sup> orifice ("D" designation), std. materials, NACE compliant on primary zone, conventional style Based on full flow of PCV-213A or B Process Fluid: Natural Gas	Rev. # 0
PT-200	BOURDON Intrinsicly Safe Transmitter Model # Y-913-057-H22 0 to 160 psig range c/w 4-20 mA output ¼" MNPT process connection, 316 SS, Kalrez 4079 & Ceramic AL203 wetted parts 316 SS body, 290 psig maximum pressure, 400 psig burst pressure Cl. 1, Div.1, Gr. A, B, C, D (intrinsicly safe) CSA approved Process Fluid: Natural Gas	Rev. # 0

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<b>Tag #</b>	<b>Item Description</b>	
PT-202	BOURDON Intrinsically Safe Transmitter Model # Y-913-057-H26, 0 to 400 psi range c/w 4-20 mA output ¼" MNPT process connection, 316 SS, Kalrez 4079 & Ceramic AL203 wetted parts 316 SS body, 720 psig maximum pressure, 1080 psig burst pressure Cl. 1, Div.1, Gr. A, B, C, D (intrinsically safe) CSA approved Process Fluid: Compressor Lube Oil	Rev. # 0
PT-204	BOURDON Intrinsically Safe Transmitter Model # Y-913-057-H26 0 to 400 psi range c/w 4-20 mA output ¼" MNPT process connection, 316 SS, Kalrez 4079 & Ceramic AL203 wetted parts 316 SS body, 720 psig maximum pressure, 1080 psig burst pressure Cl. 1, Div.1, Gr. A, B, C, D (intrinsically safe) CSA approved Process Fluid: Natural Gas/Compressor Lube Oil	Rev. # 0
PT-207	BOURDON Intrinsically Safe Transmitter Model # Y-913-057-H26 0 to 400 psi range c/w 4-20 mA output ¼" MNPT process connection, 316 SS, Kalrez 4079 & Ceramic AL203 wetted parts 316 SS body, 720 psig maximum pressure, 1080 psig burst pressure Cl. 1, Div.1, Gr. A, B, C, D (intrinsically safe) CSA approved Process Fluid: Compressor Lube Oil	Rev. # 0
PT-306	BOURDON Intrinsically Safe Transmitter Model # Y-913-057-H21 0 to 100 psig range c/w 4-20 mA output ¼" MNPT process connection, 316 SS, Kalrez 4079 & Ceramic AL203 wetted parts 316 SS body, 290 psig maximum pressure, 400 psig burst pressure Cl. 1, Div.1, Gr. A, B, C, D (intrinsically safe) CSA approved Process Fluid: Engine Lube Oil	Rev. # 0
PT-308	BOURDON Intrinsically Safe Transmitter Model # Y-913-057-H75 30"-0-30 psi range c/w 4-20 mA output ¼" MNPT process connection, 316 SS, Kalrez 4079 & Ceramic AL203 wetted parts 316 SS body, 40 psig maximum pressure, 80 psig burst pressure Cl. 1, Div.1, Gr. A, B, C, D (intrinsically safe) CSA approved Application: Manifold Pressure	Rev. # 0

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PV-140	Norriseal Level Control Valve Model # 2276-S-40RTV9BA4 c/w 1" NPT connections, NACE service, 4000 WOG pressure rating, Reverse Non-adjustable, Tee-body style, Viton seals, neoprene diaphragm, TFE packing, 316 SS trim material, 1/2" orifice, 0 to 20 psig, Fail Open Process Fluid: Natural Gas	Rev. # 1
PV-150	Fisher Flow Control Valve Model 2" 300 ANSI 1052/V100 Control Valve c/w 2"-150/300/600# connections, WCC steel body, 317 SST Chrome plated V-ball, TFE packing, 1052K size 20 fail open actuator, 546 I/P transducer, 67CFR filter regulator, 316 SS tubing and fittings, STYLE "A" Class 1 Div. II Gr. D CSA approved Process Fluid: Natural Gas	Rev. # 1
PV-215	Fisher Control Valve Model 2" 300 ANSI 667 D body Control Valve c/w 2"-300# RF connections, 1/4" trim, Fisher 667 size 40 fail closed actuator, 546 I/P transducer, 67CFR filter regulator, 316 SS tubing and fittings, Cl. 1 Div. II Gr. D CSA approved Process Fluid: Compressor Lube Oil	Rev. # 1
SE-312	Dynalco Electromagnetic Speed Sensor Model M203 4" long 5/8"-18 UNF shaft c/w locknut, 0.187" diam. pole piece rated intrinsically safe, CSA approved c/w Dynalco pick-up cable connector kit, M/N C101-kit, Amphenol # AN/MS 3106A-10SL-4S, 2-pin straight clamp Application: Engine Speed	Rev. # 0
TC-108A/B	Defender Room Thermostat Model # XT-211 XP, single pole, single throw, remote mount, 22 Amps Res., 480 VAC max. Cl. 1, Div. II, Gr. C & D CSA approved <b>Note: Supplied with building heaters</b>	Rev. # 1
TC-324	Kimray Temperature Controller Model T12 c/w adjustable set point, 3-15 psig output signal Process Fluid: Instrument Gas <b>Note: Supplied with Gas Cooler</b>	Rev. # 1
TCV-220	Fluid Power Energy 3-Way Thermostatic Control Valve Model # S1530-E-150 c/w 1/2" NPT connections, 150° F element full open at 150° F, MAWP - 500 psig, std. trim, Neoprene oil rings Process Fluid: Compressor Lube Oil	Rev. # 0

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TE-209	Alltemp Resistance Temperature Detector Series 3000 RTD AF3313-EX-3-S-100-3-LT-1.75-4.5-P-¾ 0 to 400° F range, 100 Ohm Platinum single element, 3 wire, low temp, "T" length 1¾" single terminal block, aluminum, XP conn. head assembly c/w 4½" U length, 304 SS ¾" NPT stepped thermowell. Note: for connection to Intrinsically safe system Process Fluid: Compressor Lube Oil	Rev. # 0
TE-215	Alltemp Resistance Temperature Detector Series 3000 RTD AF3313-EX-3-S-100-3-LT-1.75-6.0-P-¾ 0 to 400° F range, 100 Ohm Platinum single element, 3 wire, low temp, "T" length 1.75" single terminal block, aluminum, XP conn. head assembly c/w 6.0" U length, 304 SS ¾" NPT stepped thermowell. Note: for connection to Intrinsically safe system Process Fluid: Natural Gas	Rev. # 0
TE-309	Alltemp Resistance Temperature Detector Type RD – Flexible Armoured Leads RTD RD-S-14-6-SP-3-UT-96, SP = 1/10 DIN RTD ¼" probe diameter, 6" probe length, 316 SS 3 wire armoured cable, 8' long Application: Manifold temperature	Rev. # 0
TE-310	Alltemp Resistance Temperature Detector Type RD – Flexible Armoured Leads RTD RD-S-14-6-SP-3-UT-96, SP = 1/10 DIN RTD ¼" probe diameter, 6" probe length, 316 SS 3 wire armoured cable, 8' long Process Fluid: Jacket Water 50/50 Glycol	Rev. # 0
TI-326	Trend Temperature Indicator Model # 50060 c/w dual scale, -20 to 120° C/0 to 250° F, 5" dial, 6" back connection stem, external re-calibrator, ¾" NPT 304 SS stepped thermowell. Process Fluid: Natural Gas	Rev. # 0
TY-324	Garzo Pneumatic Actuator Model 501-6 Process Fluid: Natural Gas <b>Note: Supplied with Gas Cooler</b>	Rev. # 1
UV-302	Amot High Pressure Control Valve Model 4418D-5A6C 1½" FNPT pipe size, 3-way normally closed version, low pilot pressure valve (50 psi), stainless steel body Process Fluid: Fuel Gas	Rev. # 0

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UV-304	TDI Starter Relay Valve Model RLVA-25683001201 (for gas) Aluminum valve body, nickel plated aluminum internals, Buna O-rings, pneumatically controlled for operation with compressed natural gas, 1½" inlet x 1½" outlet pilot operated Process Fluid: Starter Gas	Rev. # 0
UV-305	Fisher Switching Valve Model 119 - Set at 30 psi c/w 1" NPT connection, ¼" orifice, 30 to 60 psi spring range, 150 psi maximum pressure. Process Fluid: Natural Gas	Rev. # 0
UY-140	Asco Solenoid Valve Model EF8320G202-24 c/w ¼" NPT connections, 3/32" orifice, 3-way normally closed (closed when de-energised) 24 VDC explosion proof Cl. 1, Div. 1, Gr. D coil, 11.6 W @ 20° C, CSA approved Process Fluid: Instrument Gas	Rev. # 1
UY-150	Fisher I/P Transducer Model 546 4 to 20 mA input signal, 0 to 33 psi output, 35 psi input gas req'd, tapped exhaust, rated XP/intrinsically safe. Function: Bypass Valve Control See PV-150 Process Fluid: Instrument Gas <b>Note: Supplied with PV-150</b>	Rev. # 1
UY-201A/B	Ruker Yuken 4-Way Valve Solenoid Model # S-DSG-03-3C2-D24-6090 Sub Base Model # I-S-P-05-23 -N c/w 4-way spring return to closed centre spool, 24 VDC coils, bottom inlet/outlet ½" NPT connections, Class 1, Division 2, Group C & D, CSA approved. Process Fluid: Compressor Lube Oil	Rev. # 0
UY-204	Fisher I/P Converter Model 546 4 to 20 mA input signal, 3 to 15 psi output, 20 psi input gas req'd, tapped exhaust, rated XP/intrinsically safe. Function: Engine Governor Control See G-311 Process Fluid: Instrument Gas	Rev. # 0

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UY-215	Fisher I/P Transducer Model 546 4 to 20 mA input signal, 0 to 33 psi output, 35 psi input gas req'd, tapped exhaust, rated XP/intrinsically safe. Function: Oil Temperature Valve Control See PV-215 Process Fluid: Instrument Gas <b>Note: Supplied with PV-215</b>	Rev. # 1
UY-302	Asco Solenoid Valve Model EF8320G202-24 c/w 1/4" NPT connections, 3/32" orifice, 3-way normally closed (closed when de-energised) 24 VDC explosion proof Cl. 1, Div. 1, Gr. D coil, 11.6 W @ 20° C, CSA approved Process Fluid: Instrument Gas	Rev. # 0
UY-304	Asco Solenoid Valve Model EF8320G202-24 c/w 1/4" NPT connections, 3/32" orifice, 3-way normally closed (closed when de-energised) 24 VDC explosion proof Cl. 1, Div. 1, Gr. D coil, 11.6 W @ 20° deg C, CSA approved Process Fluid: Instrument Gas	Rev. # 0
UY-305	Asco Solenoid Valve Model EF8320G202-24 c/w 1/4" NPT connections, 3/32" orifice, 3-way normally closed (closed when de-energised) 24 VDC explosion proof Cl. 1, Div. 1, Gr. D coil, 11.6 W @ 20° deg C, CSA approved Process Fluid: Instrument Gas	Rev. # 0
VSHH-203	Murphy Vibration Switch Model # VS2 c/w manual reset, 1-SPDT switch, Weather Proof Enclosure Application: Compressor Vibration	Rev. # 0
VSHH-307	Murphy Vibration Switch Model # VS2 c/w manual reset, 1-SPDT switch, Weather Proof Enclosure Application: Engine Vibration	Rev. # 0
VSHH-320	Murphy Vibration Switch Model # VS2 c/w manual reset, 1-SPDT switch, Weather Proof Enclosure Application: Air Cooler Vibration	Rev. # 0

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ZE-201	Bourns Slide Valve Potentiometer Model 6637 1 kOhm, 1 turn, 25 Ohm @ 0% slide valve 829 Ohm (282 degrees) @ 100% & 2.2 VI 506 Ohm (172 degrees) @ 100% & 5.1 VI Function: Slide valve position indication <b>Note: Supplied with Compressor</b>	Rev. # 0
100	Exacta Control Panel Model XI computer c/w front access enclosure Smart analog board (1) 12 x 12 I/O board 24 VDC power supply (1) Smart Analogue Board (1) 24 VDC Power Supply (1) Panel Board (1) Exacta Cable 3'	Rev. # 0
101	V-1 Suction Filter Size: 48" OD x 138" S/S MAWP: 245 psig @ 250° F MDMT: -20° F @ 245 psig C.A.: 0.0625" Elements (16) JPMG-36349-V c/w 8"-150# RF inlet and outlet	Rev. # 1
108	H-1A/B Ruffneck Glycol Heater Model # AH-16A-A5A1-A1-2A c/w remote mount thermostat, 1½" NPT conn., MAWP = 450 psi, MAWT = 650° F, (1) XP, ¼ HP 1/60/115 VAC motor, 16" standard fan, customer to supply 7.5 GPM glycol @ 180° F inlet temperature 68,960 Btu/hr rated output heat	Rev. # 1
200	C-1 Frick Screw Compressor Model # TDSH-283SX c/w 10"-300# suction flange, 8"-300# discharge flange, Slide Valve potentiometers Max Speed: 3600 RPM Design Pressure: 350 psig	Rev. # 1
201	TB Woods Coupling Series FSH-37-18 Spacer 6.62" DBSE Flywheel adapter, 18.375" OD, 17¼" SAE Bolt circle. Shaft and Hub assembly to fit Bore Compressor 283 = 3.249" to 3.250" with 7/8" keyway	Rev. # 0
202	V-2 Oil Separator Size: 36" OD x 102" S/S MAWP: 350 psig @ 250° F MDMT: -20° F @ 350 psig C.A.: 0.0625" Elements: (5) RSC11753 c/w 6"-300# RF inlet and outlet	Rev. # 0

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203	E-1 Nixon Vicarb Oil Cooler Model # V45-SST-100 47 plates, 217.85 ft <sup>2</sup> design pressure 350 psig @ 250° F c/w 3" NPT connections	Rev. # 0
204	F-1 Standard Oil Filter Size: 8 5/8" OD x 27 1/2" S/F MAWP: 400 psig @ 250° F MDMT: -20° F @ 400 psig C.A.: 0.0625" Element: (1) 1833C c/w 2" pipe stub inlet and outlet	Rev. # 0
300	F-2 Headline Fuel Gas Filter Housing Model # 680-A-1" Element Model # 38-152-70C c/w 1" NPT connections, MAWP 250 psig at 200° F, 95% efficiency 0.1 micron coalescer element	Rev. # 0
302	P-2 Engine Pre-lube Pump Model: Wilden M1/AYYZ/BN/BN/ABN Diaphragm Pump, output 5 GPM @ 20 psig Process: Engine Pre-lube	Rev. # 0
303	T-2 & T-3 "Used Oil" Storage Tanks 336" x 18" x 8" capacity 160 US gal. (each)	Rev. # 0
304	Flex Connection Model FF-8-12-CA-TPS c/w 11" OD round Cat 3412TA flange end connections, 8" OD flex, 12" overall length flange with 8 x 0.56" holes on 9.88 BHC, c/w 8" ASA outlet flange, 13.50" OD, 8 x 0.87" holes on 11.75" BHC c/w (1) mating flange model AC-CF-108 8" mating flange for tubing, for matching to outlet of flex.	Rev. # 0
305	TDI Turbostart Engine Turbine Pneumatic Starter Model # T112-60002-F3R c/w 2" inlet, 3" NPT exhaust, Model No. 52-419 - 3" NPT straight exhaust kit right hand rotation, inertia drive	Rev. # 0
306	CE-1 Caterpillar Engine Model # 3412TALE c/w natural gas power unit, automatic governor control, CSA ignition system, Turbo Charged, 6 groove B-belt sheave.	Rev. # 0
307	F-3 Engine Auxillary Oil Filter Model # 4P2781 <b>Note: Supplied with Caterpillar Engine</b>	Rev. # 0

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308	Skid Head Tanks T-1A/B Engine Glycol Expansion Tanks ¼" thk. HSS 12" x 8" T-1A (TAW) = 52" lg (20 US gal) T-1B (EJW) = 58"lg (23 US gal) T-1C Oil Day Tank = 39 US gal capacity <b>Note: Manufactured by TPS</b>	Rev. # 0
309	Baldwin Filter Assembly Model BF-914 assembly Model BF-915 filter c/w 1" NPT inlet/outlet Process Fluid: Engine Oil Application: Filter make-up oil to LIC-314	Rev. # 0
310	Input End Sheave Configuration Engine: 7.6" datum, 8" OD, 5 groove 'B' section design <b>(Supplied with engine)</b>  Cooler: (1) 30.35" OD, 30.0" datum, 3 groove 'B' section sheave, SF2-716 bushing with 5/8" x 5/16" keyway, (3) - B-136 Flex belts  Idler: (1) 8.35" OD, 8.0" datum, 3 groove 'B' section sheave, SK2-316 bushing with ½" x ¼" keyway  Pump In: (1) 4.15" OD, 4.0 PD, 1 groove 'B' section sheave, SH-102 bushing to fit 1 1/8" shaft with ¼" x ½" key  Pump Idler: (1)- ATP Browning Tensioner. (1) - SH-BB X ½ Idler bushing, (1) - 1B-4.15"OD, 1 Groove "B" section sheave	Rev. # 0
311	P-1 Price Fluid Pump Model # CD150AI 1½" x 2" x 4.94" 4.94" diam. impeller, 1 1/8" diam. input shaft , c/w ¼"x ¼" key Flow: 164 USGM @ 45 ft Head Speed: 3450 RPM Power Draw: 3.5 HP Process Fluid: 50/50 Glycol	Rev. # 0
312	Silencer System Exhaust Flex for Caterpillar 3412TA Part # FF-8-12-CA-TPS 11" OD round CAT flange, 8"x ½" diam. bolt holes x 8" OD flex x 8" OD CS tube, 12" OAL.  (3) Weld-On Flange Kits Model AC-W2T-008 c/w (3) 8"-125# FF flanges, all nuts, bolts and gaskets required for 8"OD tube  Silex Silencer S-JAT-8-EIEO-00-F9-FO9-GO-AL-A c/w residential low pressure silencer specs, 8"-125# FF inlet and outlet conn., End in, End out, shell drain.	Rev. # 0

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313	E-2 Air-X-Changer Heat Exchanger Model # 96AEH c/w 3 sections (AfterCooler, Engine Jacket Water, Engine Turbo Water & Oil Cooler) auto louvres on outlet of Gas section, manual louvres on outlet of cooling water sections. Design pressure 350 psig @ 300° F on aftercooler coil, Engine drive 22.5 HP power draw Fan: Moore 33ED, 5 blade, 477 RPM, 83149 CFM, Low noise design	Rev. # 0
314	P-3 Glycol Transfer Pump Model: Wilden P1/ALLL/BN/BN/ABN Diaphragm Pump, output 5 GPM @ 20 psig Process: 50/50 Glycol Transfer	Rev. # 2
315	P-4 Oil Transfer Pump Model: Wilden P1/ALLL/BN/BN/ABN Diaphragm Pump, output 5 GPM @ 20 psig Process: Oil Transfer	Rev. # 2
400	Building, Self-Framing 18'-6" W x 25' L x 12' E c/w 22 Ga Galvanized Steel Exterior, 24 Ga Fluted Aluminum White Interior R12 Insulation Wall/Roof (2) 6'x7' Mandoor c/w panic hardware, window in active door (2) 40"x40" double windows c/w ½ screen (1) 20' continuous roof ridge vent (2) 12"x12" wall louvres continuous ice rakes  Instrumentation General Notes: - All electrical equipment to be CSA approved - Electrical area classification is Class 1, Div II, Group D - Instrument Gas is available - Tubing to be stainless steel, fitting to be cadmium plated with Stainless Steel ferrules	Rev. # 0
	<u>BALL VALVES</u>	Rev. # 0 Rev. # 2
½" BCN1	Qty 15 Ball Valve, ½" NPT, Carbon Steel c/w regular port, API 602 800 lb rating, std. trim	Rev. # 2
¾" BCN1	Qty 4 Ball Valve, ¾" NPT, Carbon Steel c/w regular port, API 602 800 lb rating, std. trim	Rev. # 0
1" BCN1	Qty 4 Ball Valve, 1" NPT, Carbon Steel c/w regular port, API 602 800 lb rating, std. trim	Rev. # 2
1" BCN1,S	Qty 2 Ball Valve, 1" NPT, carbon steel c/w regular port, API 602 800 lb rating, std. trim, spring return handle	Rev. # 2

**Bill of Materials****BOM****Name:** 10822 - TPS 600 - Anderson Exploration**As Built****Location:** Dreau LSD: 1-15-78-21-W5M

<u>Tag #</u>	<u>Item Description</u>	
1½" BCN1	Qty 1 Ball Valve, 1½" NPT, Carbon Steel c/w regular port, API 602 800 lb rating, std. trim	Rev. # 0
2" BCN1	Qty 2 Ball Valve, 2" NPT, Carbon Steel c/w regular port, API 602 800 lb rating, std. trim	Rev. # 1
	<u>BUTTERFLY VALVES</u>	Rev. # 0
3" UC11	Qty 1 Butterfly Valve, Wafer Style 3"-150#, Carbon Steel and trim, elastomer seal c/w lever and notch plate	Rev. # 0
	<u>CHECK VALVES</u>	Rev. # 2
½" CCN2	Qty 4 Swing Check Valve c/w ½" NPT connections, carbon steel body, stainless steel trim, API 800# rating	Rev. # 2
1" CCN2	Qty 1 Swing Check Valve c/w 1" NPT connections, carbon steel body, stainless steel trim, API 800# rating	Rev. # 1
3" CC31	Qty 1 Twin Flapper Wafer Check Valve c/w 3"-300# carbon steel body, carbon steel trim, metal seats, inconel spring, serrated face	Rev. # 0
6" CC31	Qty 1 Twin Flapper Wafer Check Valve c/w 6"-300# carbon steel body, carbon steel trim, metal seats, inconel spring, serrated face	Rev. # 0
8" CC31	Qty 1 Twin Flapper Wafer Check Valve c/w 8"-300# carbon steel body, carbon steel trim, metal seats, inconel spring, serrated face	Rev. # 0
	<u>GATE VALVES</u>	Rev. # 1
½" GCN1	Qty 1 Gate Valve, ½" NPT, Carbon Steel body & trim c/w regular port, API 602 800 lb rating	Rev. # 0
¾" GCC1	Qty 4 Gate Valve, c/w ¾" SW x ¾" NPT connections, regular port, CS body & trim, API 602 800# rating	Rev. # 1
¾" GCN1	Qty 1 Gate Valve, ¾" NPT, Carbon Steel body & trim c/w regular port, API 602 800 lb rating	Rev. # 0

**Bill of Materials****BOM****Name:** 10822 - TPS 600 - Anderson Exploration**As Built****Location:** Dreau LSD: 1-15-78-21-W5M

<u>Tag #</u>	<u>Item Description</u>	
1" GCN1	Qty 6 Gate Valve, 1" NPT, Carbon Steel body & trim c/w regular port, API 602 800 lb rating	Rev. # 1
1½" GCN1	Qty 2 Gate Valve, 1½" NPT, Carbon Steel body & trim c/w regular port, API 602 800 lb rating	Rev. # 1
2" GCS1	Qty 2 Gate Valve, 2" SW connections, Carbon Steel body & trim c/w regular port, API 602 800 lb rating	Rev. # 0
	<u>GLOBE VALVES</u>	Rev. # 2
½" LCN1	Qty 3 Globe Valve, ½" NPT, Carbon Steel body & trim API 602 800 lb rating	Rev. # 2
1" LCN1	Qty 1 Globe Valve, 1" NPT, Carbon Steel body & trim API 602 800 lb rating	Rev. # 0
1" LCN1, N	Qty 2 Globe Valve, 1" NPT, carbon steel body, NACE trim, API 602 800 lb rating	Rev. # 1
1½" LCS1	Qty 3 Globe Valve, 1½" SW connections, carbon steel body & trim, API 602 800 lb rating	Rev. # 1
2" LCS1, N	Qty 1 Globe Valve, 2" SW, carbon steel body, NACE trim, API 602 800 lb rating	Rev. # 1
	<u>NEEDLE VALVES</u>	Rev. # 1
¼" NCN1	Qty 1 Needle Valve, ¼" FNPT x ¼" FNPT c/w Carbon Steel body, Stainless Steel trim, Integral seat, Teflon packing, 6000# WOG rating	Rev. # 0
½" NCN1	Qty 7 Needle Valve, ½" FNPT x ½" FNPT c/w Carbon Steel body, Stainless Steel trim, Integral seat, Teflon packing, 6000# WOG rating	Rev. # 1
¾" NCM3	Qty 2 Needle Valve, ¾" MNPT x ½" FNPT c/w CS body, SS trim, Integral seat, TFE packing, 6000# WOG rating	Rev. # 1
	<u>STRAINERS</u>	Rev. # 1
½" YCN1	Qty 1 "Y" Strainer, ½" NPT, Cast Steel Body, 600# rating stainless steel mesh	Rev. # 0
2" TCS1	Qty 1 "T" strainer, 2" SW, cast steel body, 600# rating, stainless steel size 40 mesh	Rev. # 0

**Bill of Materials****BOM****Name:** 10822 - TPS 600 - Anderson Exploration**As Built****Location:** Dreau LSD: 1-15-78-21-W5M

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<b><u>Tag #</u></b>	<b><u>Item Description</u></b>
10" SC31	Qty 1 Start-up basket strainer, carbon steel, c/w 10"-300# ANSI connection, 200% open area, 3/32" perforations

Rev. # 1