

MASTER BILL OF MATERIAL

AS BUILT COMPLETED ON: SEPTEMBER 8, 2006

JOB#: SO# 2115
 CUST : PENN WEST ENERGY
 DATE : SEPTEMBER 8, 2006
 REVISION: 2 WS
 GAS SERVICE: SWEET

ITEM	SUPPLIER	QUANTITY	DESCRIPTION
100	BC	1	NATURAL GAS ENGINE, "ARROW" MODEL VRG 330 -68 HP @ 1800 RPM -AIR CLEANER PIPED TO OUTSIDE OF BLDG. -DISTRIBUTOR -OVERFLOW TANK -ENGINE GOVERNOR -ENGINE OIL FILTER - ARR16270A / HP1 CORRUGATED HARDWALL COOLANT AND EXHAUST HOSE, PT# 21802 , G381C-200 2" I.D. -PULLER FAN 2694ZLPAG40AS SH1.375 26-9-4ZL-PAGST-40 AS, SH 1-3/8" BUSHING -OIL DRAIN FITTING, "HOSE HEADQUARTERS", 120-DC G1608B-06-08, BRASS NPT REDUCING ADAPTER, PT# 3111 -OIL DRAIN PUSH ON FITTING, "HOSE HEADQUARTERS", 725-12D G20108-12 MALE NPT, PT# 3744 -BOLT CLAMP "NORWESCO" PART# 94170-0238 -THROTTLE CABLE "GP" CARPAK CAR 54-9 C/W THROTTLE BRACKET - S/N# C-2324
102	BC	1	EXHAUST PIPE, AND SUPER CRITICAL GRADE SILENCER "EXCEL" EXSC-2.5FI-2.5NO-S-C-AS-AS-BLK, 2.5" 150# flange ON SIDE AND 2.5" NPT END, FLANGE KIT EX-FXT-2.5 OD
104	BC	1	BRAIDED EXHAUST FLEX, "G.P." FT200 100SN 10" x 2.5" ID
105	BC	1	IGNITION SYSTEM ALTRONIC V AS FOLLOWS: -MAGNETO P/N 056A34-AW -ONE 60-CBH/VRG330/4 CUSTOM BUILT SHIELDED HARNESS -SIX 44-ITX-150-6 COIL -SIX 20-RTN79G SPARK PLUG
106	BC	1	ENGINE RADIATOR "CITY WIDE" 5-ROW INLINE DIMPLED TUBE, 8 FINS PER INCH, FLAT FINS, 240 TUBES, OPTION#3
110	BC	1	PRIMARY FUEL GAS REGULATOR "FISHER" 627-497, 1" NPT, DI SET @ 25 PSIG, 1/2" ORIFICE 15 TO 40 PSIG SPRING RANGE 300 PSIG MAWP
111	BC	1	FUEL GAS SHUTOFF VENT VALVE, "MURPHY" M2582-C-E, 55700298 (M2582CLS) ENTELLA APP DIV. 2FV C 1" NPT, MANUAL RESET
112	BC	1	SECONDARY PROPORTIONAL REGULATOR FOR FUEL GAS SUPPLY, "FISHER" MODEL S402-CDCCM , 1" NPT, CI, 1/4" ORIFICE, 5.5"- 8" WC, POS 1 MED
124	BC	1	ENGINE AIR/GAS STARTER, "POW-R-QUIK" MODEL LS23RH2-1 , 1" NPT INLET x 1 1/4" FNPT OUTLET, 150 PSIG MAWP 1" NPT INLET x 2" FNPT OUTLET, 150 PSIG MAWP
125	BC	1	LUBRICATOR, "PARKER" MODEL P3NLA98LSN , 1" NPT, INLET x 1 1/4" FNPT OUTLET, 150 PSIG MAWP
185	BC	1	ENGINE OIL STORAGE TANK, 5 GALLON c/w SIGHT GLASS AND "MERIDIAN" 1/2" NPT, FULL PORT, 2000# WOG SS
186	BC	1	ENGINE OIL SUPPLY FROM DAY TANK, "GOODYEAR" 3/4" HEATER HOSE 250 PSI, PT# 11 16 03 B
200	BC	1	SCREW COMPRESSOR, "TAMROTOR" MODEL ENDURO 12DGT, VI= 3.6, GEAR RATIO= 1.46 3825 RPM, 2" INLET x 1 1/2" OUTLET, S/N# FE012002946
210	BC	1	DRIVE COUPLING, "REX-OMEGA" -1 ONLY OMEGA FLEX ELEMENT w/CAP P/N 016-E30 -2 ONLY STEEL O.D. CPLG HUBS - E P/N 016-30HQD -1 ONLY BUSHING FOR SF 35mm O.D. COMPRESSOR SHAFT -1 ONLY BUSHING FOR SF 2" O.D. ENGINE SHAFT.
220	BC	1	THERMOSTATIC CONTROL VALVE, FPE, S-1010P 1" NPT 160 DEGREES F ELEMENT
240	BC	1	METER RUN "NATIONAL OILWELL" SINGLE CHAMBER ORFICE (1.25" 316 SS ORFICE PLATE) 2" 300# RF SCH 80 LENGTH 46" F/F SN# NO8932

250	BC	1	NET SAFETY SOLAR POWERED GAS DETECTION SOLAR SHEILD SINGLE CHANNEL CONTROLLER SS1-HSG-ASSY - Nema 3 rated termination enclosure c/w charge controller, temperature compensator & pre-wired terminals - c/w Millennium series gas detection controller - Quick connect cables for easy installation - Selectable dry or powered relay contact for low & high alarm - Nema 3 rated battery enclosure c/w batteries - Solar panels c/w mounting brackets - CSA approved Class 1, Division 2, Groups C & D CALIBRATION CUP/SPLASH GUARD CCS-1 - Provides three functions: #1 Calibration Cup #2 Remote Calibration Cup (allows delivery of calibration gas from floor level) #3 Splash Guard (protects sensor from water damage) - Incorporates a barbed nipple for flexible host/tube connection - Stainless steel construction	
300	BC	1	OIL & GAS COOLER, "AKG THERMAL SYSTEMS" MODEL AOC75-C-CRN RATED -D.P. 250 PSIG @ 250 DEGREES F BOTH SECTIONS -GAS SIDE CONNS: 2" NPT IN / OUT -OIL SIDE CONNS: 1 1/4" NPT IN / OUT - CRN# OH0909.2316 , REGISTRATION FOR ALBERTA	
321	BC	1	FLEXMASTER CONNECTION, 1" PIPE SIZE, P/N NH1600C100B0288	
322	BC	1	FLEXMASTER CONNECTION, 2" PIPE SIZE, P/N NH1600C200B0400	
400	BC	1	FLEX CONNECTOR, "MAGIC SPAN" 304SS BRAIDED 2" - 150# RF ONE END, 2" NPT OTHER END x 10" LG, DESIGN PRESS. 230 PSIG @ 300 DEGREES F	
401	BC	1	FLEX CONNECTOR, "MAGIC SPAN" 304SS BRAIDED, 2" NPT EACH END x 10" LG, DESIGN PRESSURE, 500 PSIG @ 300 DEGREES F	
402	BC	1	SUCTION SPOOL, "G.V./BC" 2"-150#RF SCH. 80 ON ONE END AND 1 1/4" PLATE FLANGE, 5 5/8 x 5 5/8 AND 2" HOLE ON THE OTHER END, CRN# OB5864.2	
403	BC	1	DISCHARGE SPOOL, "G.V./BC" 2" PIPE SCH 80 X 4" LG, TOE X POE ON ONE END AND 1 1/4" PLATE FLANGE, 4" X 2 7/16" ON THE OTHER END, CRN# OB5864.2	
404	BC		7/8" PULSAR FLEX HOSE, USE ON OIL LINE AND RATED FOR 800PSI @ 240 F 151-16 3 - FEMALE JIC SWIVEL 3505-16-16 REUSABLE FITTING 3 - MALE NPT X MALE JIC 1516-16-16 ADAPTER 3 - MALE NPT X MALE JIC 1516-12-16 ADAPTER	
412	BC	1	SUCTION CONTROL VALVE, "KIMRAY" 130-SGT-PR-D , 1" NPT, 3 PSI TO 125 PSI SPRING RANG, RATED 300 PSI	
415	BC	1	SUCTION CONTROL VALVE, "FISHER" 2" 150/300/600 FISHER 1052-V200-4150 Ball Valve WCC STEEL BODY TMC BALL SEAL, 317 CHROME-PLATED V-BALL NITRONIC 50 SHAFT, PEEK BEARINGS GRAPHITE LAMINATE GASKET, TFE PACKING COMPLIES TO NACE MR-01-75 FISHER 1052 SIZE 20 ACTUATOR <ul style="list-style-type: none"> ▪ FAIL CLOSED FISHER 4150KR PRESSURE CONTROLLER <ul style="list-style-type: none"> ▪ 0-200 PSI 316 SST BOURDON TUBE ▪ 30-6 PSI OUTPUT, REVERSE ACTING 1/4" NPT FISHER 67CFR-362SC FISHER REGULATOR <ul style="list-style-type: none"> ▪ ALUMINUM CONSTRUCTION ▪ 0-35 PSI ADJUSTABLE OUTPUT RANGE 	
420	BC	1	FUEL GAS AND STARTER PRESSURE REGULATOR "FISHER" 627 - 499 , 1" NPT TO BE SET 100 PSIG, 1/2" ORIFICE 70-150 PSI SPRING RANGE 750 PSIG MAWP	
491	BC	4	SWING CHECK VALVE, "WHEATLEY" P/N 820-023216-131 2" - NPT	
492	BC	2	SWING CHECK VALVE, "WHEATLEY" P/N 820-013216-131 , 1" NPT	
495	BC	1	CHECK VALVE, "PARKER" P/N 4M-C4L-1-SS , 1/4" TUBE	
500	BC	1	DRAIN TANK, "STEEL FAB", 12" OD x 12" S/S D.P. = 400 PSIG @ 500 DEGREES F - CRN# R9603.213 , REGISTRATION FOR PROVINCE OF ALBERTA SWEET GAS SERVICE, N/B# 3639220, A# 527156	
500	BC	1	INLET SEPARATOR "STEEL FAB", 12" O.D. x 46.5" S/S AND DE-MISTER D.P. = 400 PSIG @ 500 DEGREES F - CRN# R9603.213 , REGISTRATION FOR PROVINCE OF ALBERTA -2" NPT IN / OUT CONN'S SWEET GAS SERVICE, N/B#3639220, A# 527156	
502	BC	1	GAS/OIL SEPARATOR "STEELFAB", 16" O.D. x 54" c/w: -ONE REMOVABLE ELEMENT P/N S138D2195 - D.P. = 300 PSIG @ 350 DEGREES F - CRN# P6497.213 , REGISTRATION FOR PROVINCE OF ALBERTA -SWEET GAS SERVICE, NB# 367722, 'A' 527157	

503	BC	1	OIL FILTER "DONALDSON" P/N P166663, 1 1/4" SAE O-RING IN / OUT, 50 USGPM MAX FLOW c/w P165705 ELEMENT (10 MICRON) 350 PSI WORKING PRESSURE
506	BC	1	FUEL GAS PIPE,"BC" 4" O.D. x 36" -REMOVABLE MESH PAD -D.P. = 350 PSIG @ 325 DEGREES F -SWEET GAS SERVICE
558	BC	1	FUEL GAS FILTER, "HEADLINE", MODEL 370A 1/2" NPT, C/W 25-178-70C ELEMENT
561	BC	1	CONE STRAINER, "MAGIC SPAN" 150% OPEN AREA, 2" - 150# SCH 80 304SS MESH MILD STEEL PERFORATED BACKING
576	BC	1	Y-STRAINER, "MUELLER" FORGED STEEL, 1" NPT, 600# WOG, 1/16" DIAMETER MESH
602	BC	8	BALL VALVE, "MERIDIAN" 1/2" NPT, FULL PORT, 2000# WOG SS
604	BC	11	BALL VALVE, "MERIDIAN" 1" NPT, FULL PORT, 2000# WOG, SS
605	BC	1	SPRING RETURN BALL VALVE, "APOLLO", 1" NPT, REG PORT, 2000# WOG
610	BC	3	BALL VALVE, "MERIDIAN" 2" NPT, FULL PORT, 2000# WOG SS
681	BC	8	NEEDLE VALVE "CENTRY", 1/4" FNPT X FNPT CEN-CM2-3-F22TBV
682	BC	1	GLOBE VALVE "NAVCO", 1" NPT, 800#
700	BC	1	CONTROL PANEL "MURPHY" MODEL TTDJ -SUITABLE FOR CLASS 1, DIV 2 AREA, SN# M03-019-113 COMPR OIL TEMP. T.W. - P/N 3421011PIC, 5/8" x 1/2" S.S. 2.5" U DISCH TEMP. T.W. - P/N 34210116-1PIC, 5/8" FNPT x 1/2" FNPT S.S. 2.5" U,
701	BC	1	REGULATOR, "FISHER" 67CFR-600SC, 1/4" NPT, 0 TO 60 PSI SPRING RANGE TO BE SET AT 30 PSI, C/W 0 TO 60 PSIG WGI GAUGE SWEET SERVICE
705	BC	1	LEVEL CONTROL , "MURPHY" L1200DVO, PNEUM. LEVEL CONTR. C/W DUMP VLV OP. HORIZONTAL FLOAT C/W EXT., 1500 PSI MAWP
710	BC	1	INLINE FLOW METER "HEADLAND" MODEL H761A-040, 1" NPT, 3-40 USGPM SCALE, 3500 PSI MAWP
713	BC	1	3-WAY GAS CONTROL VALVE, "MALLARD" 5300 1" NPT, 3/8" ORIFICE, 0-35 PSI DIAPHRAGM GAS TO OPEN TO SUCTION
720	BC	1	SIGHT FLOW INDICATOR, 3/4" NPT CROSS 2000# c/w SIGHT PLUG PT# LSP51-05 3/4" NPT
721	BC	2	GAUGE GLASS, "QUALITY" Model Q17-R-20, Reflex level gauge, 1/2" FNPT x 10 1/4" L, CRN 0C4222.52 / 0F4223.52 3000PSI@100F
742	BC	2	LEVEL SWITCH / SHUTDOWN LIQUID LEVEL, "MURPHY" L1200, HORIZONTAL FLOAT, 1500 PSI MAWP
750	BC	1	ENGINE OIL LEVEL SWITCH "MURPHY" LM2000-E , ENTELLA LUBE LEVEL MAINTAINERS C/W BRACKET 15000371
801	BC	1	DIFFERENTIAL P.I. "MWI" 2 1/2", 0 / 30 PSID, PT# 120AA-00-00, MAWP 6000 PSI
802	BC	2	P.I., "WINTER'S PREMIUM GAUGE", PT# P827, 2.5" DIA. LIQUID FILLED, 1/4" NPT BTM CONN., 0 TO 300 PSI DUAL SCALE
803	BC	1	P.I., "WPG", 2.5" DIA. PT# P823, LIQUID FILLED, 1/4" NPT BTM CONN., 0 TO 60 PSIG DUAL SCALE
805	BC	1	P.I., "WGI", 2.5" DIA. PT# WJ7854P, LIQUID FILLED, 1/4" NPT BTM CONN., 0 TO 200 PSIG DUAL SCALE
851	BC	1	RELIEF VALVE, "TAYLOR" SERIES 8200, 1" MNPT x 1" FNPT, SET @ 200 PSIG, SWEET GAS SERVICE, S/N# 19094-88
852	BC	1	RELIEF VALVE, "TAYLOR" SERIES 8200, 1" MNPT x 1" FNPT, SET @ 250 PSIG, SWEET GAS SERVICE S/N# 19514-26
860	BC	1	DISCHARGE CONTROL VALVE, "SUR-FLO" PRESSURE DIFFERENTIAL SF10V-C-75-N6-2.6 CARBON STEEL CONES, SF75 SLEEVE REGULATOR MODEL, 2" 300/600# RF BP VALVE - C/W 12" EXPANSION BOTTLE - TO BE FIELD SET AT -75 PSIG
876	BC	1	ROOTS METER "DRESSER" 8C175 CRT C/W CUBIC METER READOUT COUNTER, 1 1/2"NPT, 175 PSI MAX WORKING PRESSURE, STANDARD TRIM S/N#
906	BC	2	PRESSURE REGULATOR "FISHER" PT# TYPE 912, 11"-250PSI SCOTT CAN
907	BC	2	BALL VALVE "GAS FLO" 3/8" NPT PT# ACBV-3/8 600# WOG SCOTT CAN
908	BC	2	PRESSURE REGULATOR "MAXITROL" P/N ES404 0132 3 7.0 SCOTT CAN
910	BC	2	THERMCAT 2000 NATURAL GAS HEATER "SCOTT CAN" 12,000 BTU, 12 V DC, 12X24, CGA, PROTECTIVE GRILLE STARTER c/w AND 25 FT TYPE 12 VOLT STARTER CABLES.THERMOSTATIC CONTROL VALVE AND P.I. 0-15"H ₂ 06-10-M88 1/2" NPT x 24" Heater Hose

Base Building [X] Sound Walls / Perf Liner [X] Hoods [] Door [X] Ice Racks [X] Weighted Louvers [X]

* STANDARD SKID 8'x13'

* COMPRESSOR OIL – SUMMIT PGS 100

RECOMMENDED SPARE PARTS:

- 1X ENGINE OIL FILTER ARR16270A/HP1
- 1X COMPRESSOR OIL FILTER P165705
- 1X OIL / GAS SEPARATOR ELEMENT PN DVC04801 OR S138D1914
- 1X FUEL GAS FILTER C/W 25-178-70C ELEMENT
- 6X 05-591-011A OR (44-1TX-150-6) COIL
- 6X 20-RTN79G SPARK PLUG

SO-2115 R2
WS