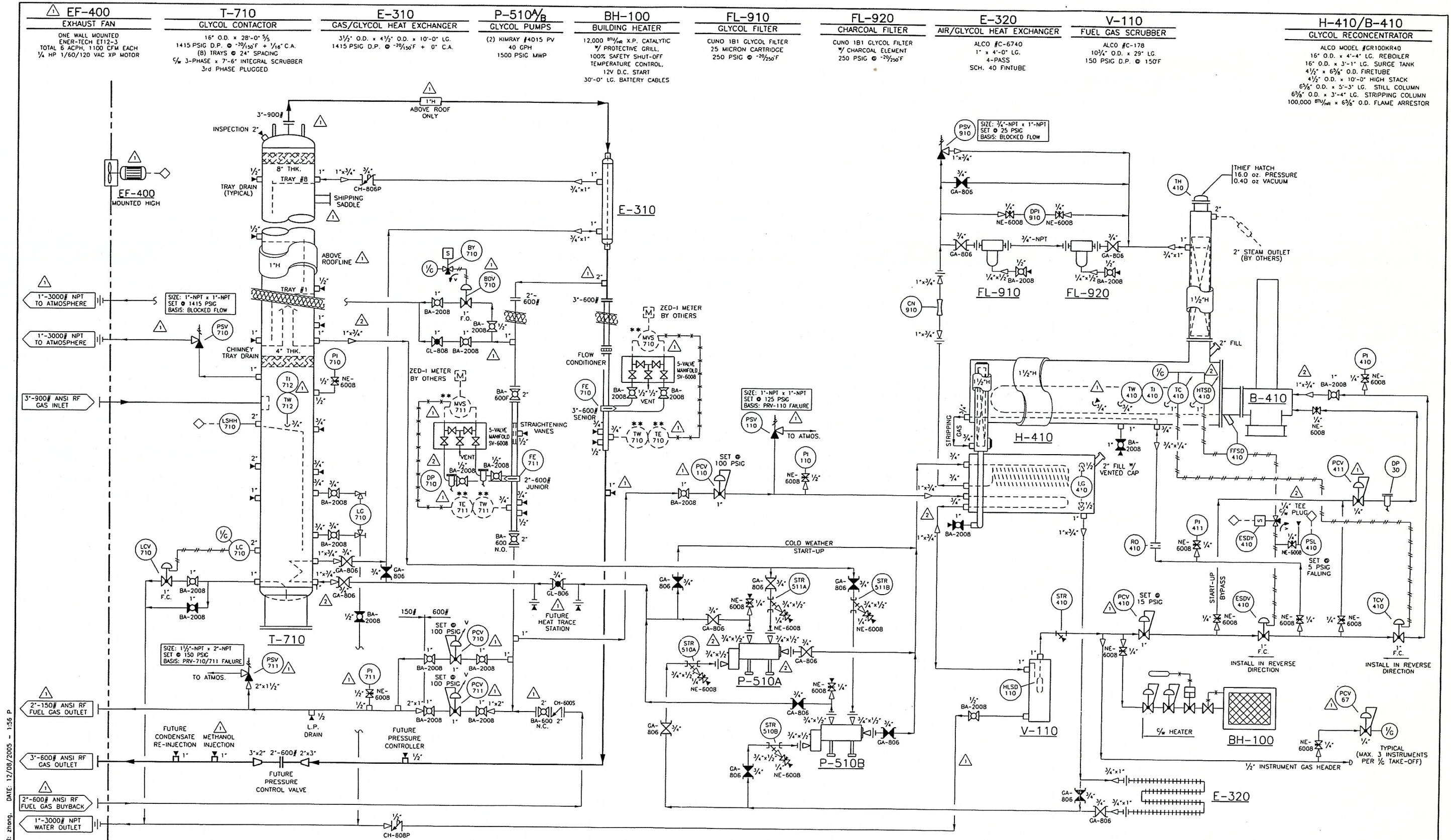




VALVE TAGGING

GA-818

VALVE TYPE: BA = BALL, CA = GATE, GL = GLOBE, CH = CHECK, NE = NEEDLE, BB = GAUGE (BLOCK & BLEED), BV = BUTTERFLY, SV = SPECIALTY

END CONNECTION: TRIM, PRESSURE RATING

VALVE TYPES: BA = BALL, CA = GATE, GL = GLOBE, CH = CHECK, NE = NEEDLE, BB = GAUGE (BLOCK & BLEED), BV = BUTTERFLY, SV = SPECIALTY

NOTES:

1. * ITEMS SUPPLIED BY EQUIPMENT VENDOR.

2. ** ITEMS SUPPLIED BY CUSTOMER & INSTALLED BY ALCO.

3. *** DENOTES TURBINE METERS REQUIRING A MIN. STRAIGHT PIPE LENGTH OF 10' UPSTREAM & 5' DOWNSTREAM.

GENERAL LEGEND:

1. --- DENOTES PNEUMATIC TIE-IN.

2. --- DENOTES PNEUMATIC COMPRESSOR PANEL TIE-IN.

3. --- DENOTES CAPILLARY TIE-IN.

4. --- DENOTES ELECTRICAL TIE-IN (BY OTHERS).

5. --- DENOTES ELECTRICAL JUNCTION BOX TIE-IN.

6. --- DENOTES LOCAL PLC TIE-IN (BY OTHERS).

7. --- DENOTES LOCAL ELECTRICAL PANEL TIE-IN.

8. --- DENOTES FIELD MOUNTED INSTRUMENT.

9. --- DENOTES LOCAL PANEL INSTRUMENT.

10. --- DENOTES LOCAL PANEL INSTRUMENT (MOUNTED INSIDE PANEL).

DATE: 12/08/2005 - 1:56 P

USER: Zhang

ONE (1) UNIT REQUIRED

ALCO GAS & OIL

PRODUCTION EQUIPMENT LTD.

MECHANICAL FLOWSHEET

STOCK GLYCOL DEHYDRATION PACKAGE

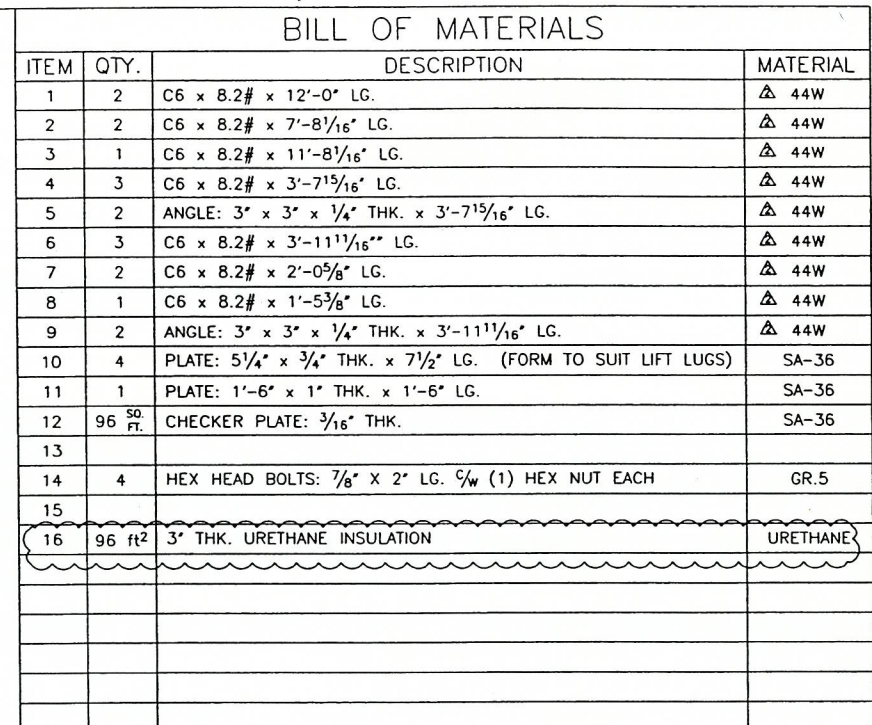
16" O.D. CONTACTOR W/ 100,000 BTU REBOILER

LOCATION: SWALLOW CBM NORTH COMPRESSOR STATION

CUSTOMER: PIONEER NATURAL RESOURCES INC. 5% GEM PRODUCTION MANAGEMENT LTD.

DWG/SHOP ORDER: D-2005-7489-50F-001/001

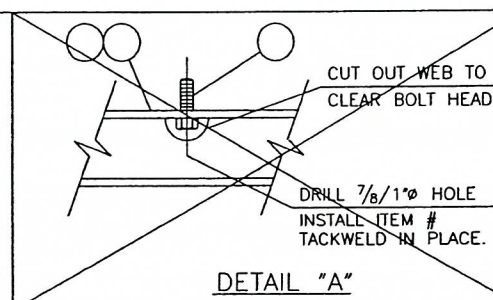
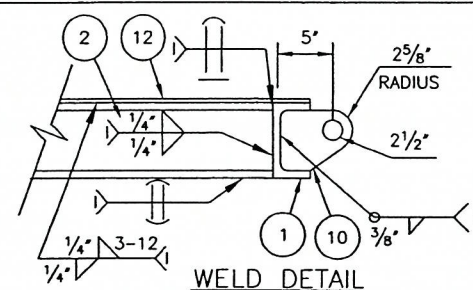
REV. 2

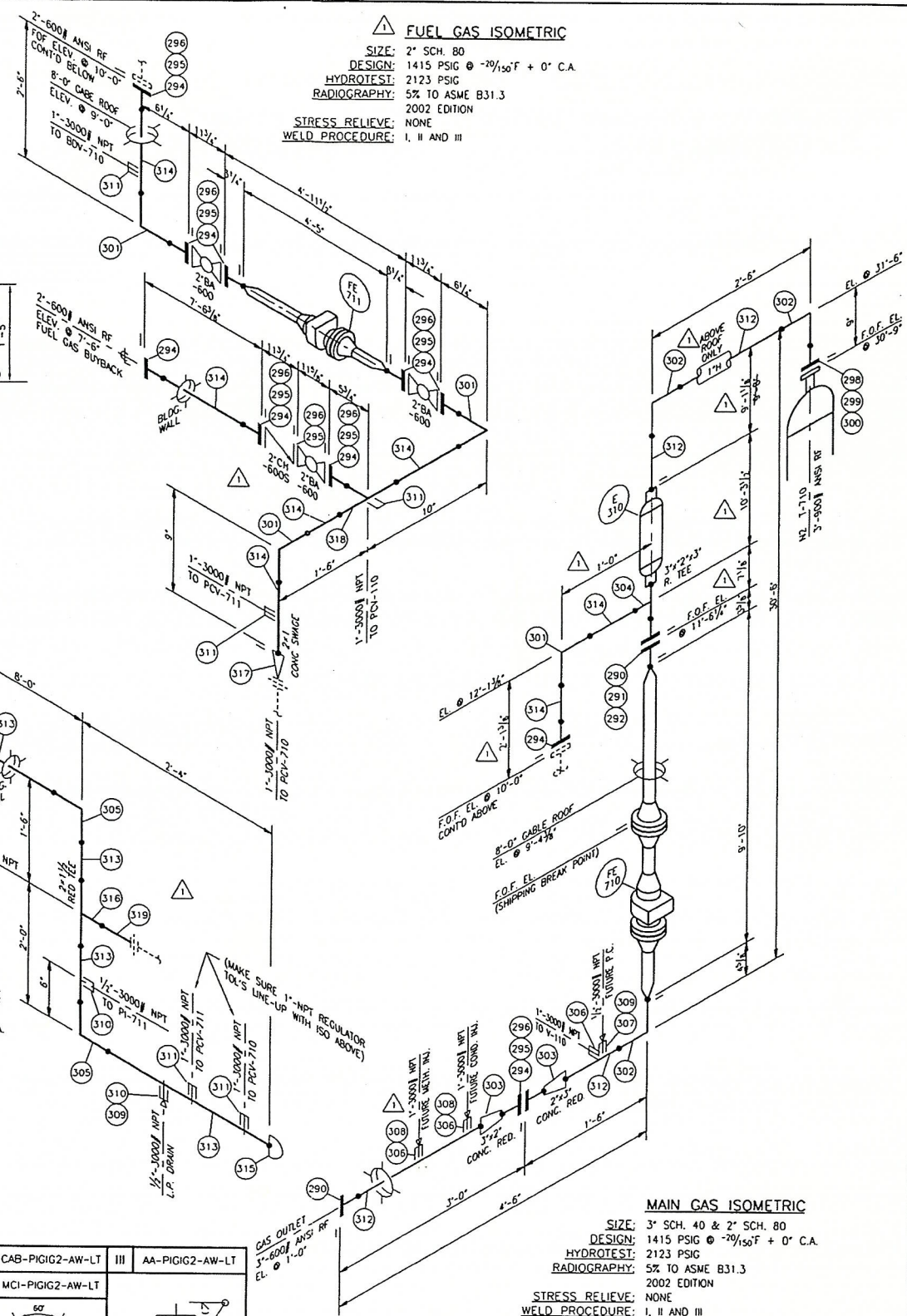


N O T E S

1. ALL SKID MEMBERS TO BE FULLY WELDED TOP AND BOTTOM WITH TOP WELD GROUND FLUSH.
2. CHECKER PLATE TO BE STITCH WELDED (3" IN 12") TO ALL SKID MEMBERS.
3. CUT OUT CHECKER PLATE TO CLEAR VESSEL BASE PLATE.
4. CHECKER PLATE SEAMS TO BE SEAL WELDED, PERIMETER STITCH WELDED (3" IN 12"), BASE PLATE AND OTHER CUT OUTS SEAL WELDED.
5. 1/16" WELD GAP INCLUDED IN STRUCTURAL STEEL CUT LENGTHS.
6. SURFACE PREPARATION: HAND/POWER TOOL CLEAN TO SSPC-SP2/3.
7. PAINT: PRIMER: 1 5/8 CLOVERDALE #T-101 PRIMER OVERALL.
FINISH: 1 5/8 CLOVERDALE SERIES 111 MARINE ENAMEL (20-F-34 WARM GREY) ON UNINSULATED AREA.
INSULATION: 3" URETHANE UNDERSIDE SKID.
8. FOUR POINT LIFT SKID DESIGN.
9. ESTIMATED SHIPPING WEIGHT: 2550 lbs.

DRAWN	JZ	 GAS & OIL PRODUCTION EQUIPMENT LTD.
DATE	2005-08-31	
SCALE	3/4" = 1'-0"	
CHK'D		
		The information contained herein is the confidential property of Alco Gas and Oil Production Equipment Ltd., and is not for publication. The information is issued on the understanding that no part thereof shall be copied or communicated to a third party without authorization in writing from Alco Gas and Oil Production Equipment Ltd. 8'-0" X 12'-0" LG. x C6 @ 8.2# STRUCTURAL STEEL SKID (FOR STOCK 16" DEHY. PACKAGE)
LOCATION: SWALWELL		L.S.D.: 16-06-030-24 W4M
CUSTOMER: PIONEER NATURAL RESOURCES INC. % GEM PRODUCTION MANAGEMENT LTD.		
DWG/SHOP ORDER: C-2005-7489-03-001_CUST		REV. 0

[illegible]



1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE MECHANICAL FLOWSHEET.
2. PROCESS PIPING TO BE DESIGNED TO ASME B31.3 2002 EDITION.
3. PRESSURE VESSELS ARE TO BE REGISTERED IN ALBERTA.
4. VESSELS AND PIPING TO BE INSULATED AS PER FLOWSHEET AND/OR FABRICATION DRAWINGS.
5. PAINTING: SURFACE PREPARATION: HAND/POWER TOOL CLEANING TO SSPC-SP2/3.
PRIMER: 1% CLOVERDALE #1-101 GREY OVERALL.
FINISH PAINT: 1% CLOVERDALE #20-F-34 (SERIES #1111) WARM GREY MARINE ENAMEL.
6. ALL ELEVATIONS SHOWN ARE FROM TOP OF MAIN SKID MEMBERS. DEPTH OF SKID IS 0'-6".
7. ALL SKID EDGE CONNECTIONS TO BE HELD AT DIMENSIONS AND ELEVATIONS SHOWN FOR CUSTOMER HE-WS.
8. SKID IS DESIGNED FOR A FOUR (4) POINT LIFT.
9. BLEED TYPE INSTRUMENTS AND METER RUN MANIFOLD ARE INDIVIDUALLY VENTED $\frac{1}{2}$ BUILDING. REGULATOR BONNETS, INSTRUMENT CASES AND CONTROL VALVE ACTUATORS ARE NOT VENTED.
10. $\frac{1}{2}$ " INSTRUMENT GAS HEADER AS SHOWN. SHOP TO RUN AS REQUIRED WITH $\frac{1}{4}$ " TAKE-OFFS $\frac{1}{2}$ " ISOLATION NEEDLE VALVE, 67 CFR ALLOWED, AND TUBING TO COMPLETE.
11. REMOVE ALL FLOATS/DISPLACERS FROM ALL LEVEL CONTROLLERS AND SWITCHES. TAG AND CRATE FOR SHIPPING.
12. ALL P.1. AND T.1. LOCATIONS ARE PROVIDED WITH SS TAGS FOR FIELD RE-INSTALLATION.
13. PROTECT ALL OPENINGS FOR SHIPPING.
14. ESTIMATED SHIPPING WEIGHT (LESS T-710):
8,600 lbs. Δ
WEIGHT OF T-710: 2,000 lbs.
15. ONE (1) OPERATING MANUALS AND ONE (1) QUALITY CONTROL DATA BOOKS ARE PROVIDED IN CD FORMAT.
16. 3" THK. URETHANE INSULATION ON UNDER SIDE OF SKID.

	800# (SWEET)	150# (SWEET)	GLYCOL PIPING
DESIGN CONDITIONS:			
D.P. & TEMP.	1415 PSIG @ -20/150F	270 PSIG @ -20/150F	1415/270 PSIG @ -20/150F
BW C.A.	0"	0"	-
NPT/SW C.A.	0"	0"	0"
RADIOGRAPHY	5% TO ASME B31.3	5% TO ASME B31.3	NONE
P.W.H.T.	NONE	NONE	NONE
* HYDROTEST	1.5 TIMES D.P.	1.5 TIMES D.P.	1.5 TIMES D.P.
PIPING:			
BW PIPING	2" SCH. 80, SA-106-B 3" SCH. 40, SA-106-B	2" SCH. 40, SA-106-B	-
SW PIPING	≤ 1 1/2" SCH. XH SA-106-B	≤ 1 1/2" SCH. XH SA-106-B	≤ 2" SCH. XH SA-106-B
NPT PIPING	≤ 1 1/2" SCH. XH SA-106-B	≤ 1 1/2" SCH. XH SA-106-B	≤ 2" SCH. XH SA-106-B
INSTRUMENT TUBING	1/8" O.D. 304SS (0.035")	1/8" O.D. 304SS (0.035")	1/8" O.D. 304SS (0.035")
PROCESS TUBING	1/8" O.D. 304SS (0.035")	1/8" O.D. 304SS (0.035")	1/8" O.D. 304SS (0.035")
FITTINGS:			
BW FITTINGS	2" SCH. 80, SA-234-WPB 3" SCH. 40, SA-234-WPB	2" SCH. 40, SA-234-WPB	-
SW FITTINGS	≤ 1 1/2" 3000# SA-105	≤ 1 1/2" 3000# SA-105	≤ 2" 3000# SA-105
NPT FITTINGS	≤ 1 1/2" 3000# SA-105	≤ 1 1/2" 3000# SA-105	≤ 2" 3000# SA-105
FLANGES	RFWN BORE TO PIPE, SA-105	RFWN BORE TO PIPE, SA-105	
GASKETS	304SS x 1/8" THK. FLEXITALUC	304SS x 1/8" THK. FLEXITALUC	
BOLTING	SA-193-B7/SA-194-2H	SA-193-B7/SA-194-2H	
PUMP/L.G. NIPPLES	SCH. 160, SA-106-B	SCH. 160, SA-106-B	SCH. 160, SA-106-B
INSTR. TUBING FITTINGS	CAD. PLATED C.S. SMOCKLOK / SS FURRURES	CAD. PLATED C.S. SMOCKLOK / SS FURRURES	CAD. PLATED C.S. SMOCKLOK / SS FURRURES
PROCESS TUBING FITTINGS	CAD. PLATED C.S. SMOCKLOK / SS FURRURES	CAD. PLATED C.S. SMOCKLOK / SS FURRURES	CAD. PLATED C.S. SMOCKLOK / SS FURRURES

- *LOW PRESSURE NPT/SW PIPING IS AIR TESTED AT 100 PSIG.
- **PIPE SCHEDULE IS SELECTED BASED ON PRESSURE AND CORROSION LIMITS.
- ***ALLOW 1/16" GAP IN SOCKET WELDING.

I	CA-PIGIG2-AW-LT	II	CAB-PIGIG2-AW-LT MC1-PIGIG2-AW-LT	III	AA-PIGIG2-AW-LT

[illegible]

MAIN GAS ISOMETRIC
 SIZE: 3" SCH. 40 & 2" SCH. 80
 DESIGN: 1415 PSIG @ -70°F + 0° C.A.
 HYDROTEST: 2123 PSIG
 RADIOGRAPHY: 5% TO ASME B31.3
 2002 EDITION
 STRESS RELIEVE: NONE
 WELD PROCEDURE: I, II AND III

ONE (1) UNIT REQUIRED

ALCO  **GAS & OIL'**
PRODUCTION EQUIPMENT LTD.

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LAYOUT/ASSEMBLY
STOCK GLYCOL DEHYDRATION PACKAGE
6" O.D. CONTACTOR W/ 100,000 BTU/ REBOILER

U.S.D. CONTRACTOR - 100,000 \$/HR REBUILER
WELL CBM NORTH COMPRESSOR STATION L.S.D.: 01-07-030-24 W
EER NATURAL RESOURCES INC. % GEM PRODUCTION MANAGEMENT LTD.

ORDER: D-2005-7489-50A-001/001 REV 2

REV. NO.	ITEM	QTY	DESCRIPTION	MATERIAL	NOTE	UNIT WEIGHT	TOTAL WEIGHT	WHSE	SUPPLIER	DEL'Y DATE	P.O. NUMBER	P.O. DATE	UNIT PRICE	TOTAL PRICE	REMARKS
	T-710	1	GLYCOL CONTACTOR: 16" O.D. x 28'-0" s/s; 1415 PSIG D.P. @ -20/150°F; 1/16" C.A.; c/w (8) BUBBLE CAP TRAYS @ 24" SPACING; 7'-6" x 3-PHASE INTEGRAL SCRUBBER, SHIPPING SADDLE, LIFTING LUGS			4600	4,600								D-2005-7489-01-001 (MODIFY STOCK 7403-01)
1															
1	H-410	1	GLYCOL RECONCENTRATOR: 16" O.D. x 4'-4" LG. REBOILER; 16" O.D. x 3'-1" LG. SURGE TANK; 4 1/2" / 6 5/8" O.D. FIRETUBE; 4 1/2" O.D. x 10'-0" HIGH STACK; 6 5/8" O.D. x 5'-3" HIGH STILL COLUMN; 6 5/8" O.D. x 3'-4" LG. STRIPPING COLUMN;			950	950								D-2005-7489-05-001 (MODIFY STOCK 7380-03)
2	B-410	1	ZIRCO FAB10-6A FLAME ARRESTED GAS BURNER: 100,000 BTU/HR DUTY; ALUM CELL ELEMENT; 1-PIECE O-TYPE BODY; NATURAL GAS APPLICATION; 10" ALUMINUM CONSTRUCTION, w/ NET LATCHES, 4 1/2" O.D. FIREBOX CONN., 1" ECLIPSE AIR-GAS MIXER, 1" STICKTITE NOZZLE, FLAMECO PILOT, 1"-NPT GAS CONN. @ 9:00 POSITION, 1/4"-NPT PILOT CONN. @ 9:00 POSTION (6 5/8" x 3'-3" OAL FIRETUBE, 4 1/2" X 10'-0" HIGH STACK, 2500' SITE ELEV.)			40	40								
	E-310	1	GAS/GLYCOL EXCHANGER: 3 1/2" O.D. x 4 1/2" O.D. x 10'-0" LG.; 1415 PSIG D.P. @ -20/150°F + 0" C.A.			215	215								(STOCK 7442-02)
	E-320	1	AIR/GLYCOL EXCHANGER: 1" SCH. 40 FINTUBE x 4'-0" LG.; 4-PASS; 200°F OUTLET TEMPERATURE			78	78								(STOCK 7380-05)
	V-110	1	FUEL GAS SCRUBBER: 10 3/4" O.D. x 2'-5" LG.; 150 PSIG D.P. @ -20/150°F			115	115								(STOCK 7468-06)
	HLSD-110		c/w ALCO STD. INTERNAL HIGH LEVEL SHUTDOWN												
	P-510A	2	KIMRAY 4015PV GLYCOL PUMP: 40 GPH MAX, 300-1500PSIG MWP, -20/200°F			66	132								
	P-510B		w/ VITON TRIM												
	BH-100	1	CATADYNE BX 12x24 12,000 BTU/HR CATALYTIC HEATER w/ PROTECTIVE GRILL, 100% SAFETY SHUTOFF, TEMPERATURE CONTROL, LOW PRESSURE REGULATOR, 12V DC START, NATURAL GAS ORIFICE, STD MATL'S			14.7	15								
	FL-910	1	3/4" NPT CUNO 1B1 LOW PRESSURE PARTICULATE FILTER, 250 PSIG @ 250°F, (1) 25 MICRON FILTER CARTRIDGES, CI BODY, STD MATL'S			9.5	10								
	FL-920	1	3/4" NPT CUNO 1B1 LOW PRESSURE CHARCOAL FILTER, 250 PSIG @ 250°F, (1) CN028098-H CHARCOAL ELEMENTS, CI BODY, STD MATL'S			9.5	10								
1	BLDG	1	8'-0" WIDE x 12'-0" LG. x 8'-0" HIGH MIN. EAVE GABLE PRE-PAINTED BUILDING: (2) 3'-0"x7'-0" DOORS, (1) 40"x40" SLIDING WINDOW, (2) 12"x18" LOUVERS, 22 Ga. EXTERIOR, 24 Ga. WHITE ALUM INTERIOR, R12&R20 INSULATION c/w 6 MIL VAPOUR BARRIER, REMOVABLE PANEL (RED BARN COLOR STYLE)			2500	2,500		WARWICK						B-2005-7489-50-001
	EF-400		c/w ENERTECH #ET-12 EXHAUST FAN: 6 ACPH, 1100 CFM, 1/4 H.P. 1/60/120 VAC X.P. MOTOR												
				ESTIMATED SHIPPING WEIGHT:	13,100 Lbs.		8,664								
REVISIONS			NOTES: *** SEE NOTE COLUMN FOR APPLICATION NUMBERS *** 1. MATERIAL TO MEET THE NOTES AND REQUIREMENTS AS OUTLINED ON THE LAYOUT DRAWING.			BY: KRT		ALCO  GAS & OIL PRODUCTION EQUIPMENT LTD. The information contained herein is the confidential property of ALCO Gas & Oil Production Equipment Ltd., and is not for publication. The information is issued on the understanding that no part thereof shall be copied or communicated to a third party without authorization in writing from ALCO Gas & Oil Production Equipment Ltd.							
REV.	DATE	REV. BY				DATE: Aug. 29, 2005									
0	Sep. 1, 2005	KRT				CHK'D KEW									
1	Sep. 29, 2005	KRT				CHK'D PG									
2	Dec. 8, 2005	JZ				APP'D:									
						CUSTOMER: PIONEER NATURAL RESOURCES INC. c/o GEM PRODUCTION MANAGEMENT LTD.		BILL OF MATERIALS STOCK DEHYDRATION PACKAGE - 16" O.D. CONTACTOR /w 100,000 BTU/HR REBOILER							
			NOTE: ONE (1) UNIT REQUIRED.			L.S.D.: 01-07-30-24 W4M		DWG/SHOP ORDER: B-2005-7489-50B-001/007							
								REV. 2							
			BOM_Hookup.xlt (rev.1g), Printed: 12/13/2005												

REV. NO.	ITEM	QTY	DESCRIPTION	MATERIAL	NOTE	UNIT WEIGHT	TOTAL WEIGHT	WHSE	SUPPLIER	DEL'Y DATE	P.O. NUMBER	P.O. DATE	UNIT PRICE	TOTAL PRICE	REMARKS		
	SKID	1	8'-0" x 12'-0" x C6@8.2# STRUCTURAL STEEL SKID: (4) FOUR POINT LIFT, 3/16" THK. CHK. PLATE FLOORING c/w 3" THK. URETHANE INSULATION ON UNDER SIDE OF SKID			2190	2,190								C-2005-7489-03-001 (STOCK 7380-04)		
1	AD-110	0 - 1	WATSON McDANIEL #WLD-1811 AUTO-DRAINER: C.I. BODY, 500 PSIG @ 250°F, 3/4" NPT INLET x 1/2" NPT OUTLET, STD MATL'S			5	-										
1	BDV-710	1	1" NPT KIMRAY 1400 SMT BLOW DOWN VALVE: 3/8" DIA. ORIFICE, 0-20 PSIG SIGNAL, 1440 PSIG SHUTOFF, FAIL OPEN, 4000 PSIG MWP, STANDARD MATERIALS			17	17										
	CN-910	1	1" NPT x 12" LONG CHOKE NIPPLE: 1/8" BORE, STD. MATL'S			5	5										
	DP-30	1	KIMRAY DP-30 LOW PRESSURE DRIP POT; 300 PSIG MWP; STD MATL'S			5	5										
1	DP-710	2	KIMRAY DP-200 HIGH PRESSURE DRIP POT: 2000 PSIG MWP, STD MATL'S			7	14										
	DPI-910	1	MIDWEST MODEL #120AA DIFFERENTIAL PRESSURE INDICATOR, 6000 PSIG MWP, 0-30 PSID, DUAL SCALE, STD MATL'S			1.5	2										
	ESDV-410 TCV-410	2	1" NPT WELLMARK 1010 #100-DSG-I FUEL GAS CONTROL VALVE: INTEGRAL/DIRECT CONTROL, 5.0 Cv, 6-30 PSIG CONTROL SIGNAL, 300 PSIG MWP @ 450°F, DI BODY, TAPPED VENT PORT, STD MATL'S (LABEL AND INSTALL ESDV-410 & TCV-410 BACKWARDS)			8	16										
1	ESDY-410 BY-710	2 - 1	1/4" NPT ASCO EF8320G202 SOLENOID VALVE: 24V DC, CLASS I, DIV. I, XP, UNIVERSAL 3-WAY OPERATION, 115 PSIG MWP, STD. MATL'S			5	10										
	FE-710	1	3"-600# ANSI RF NORTHSTAR SENIOR "FLANGEWELD" ORIFICE FITTING: SCH.40 BORE, STD. MATL'S, c/w (1) 1 3/8" DIA. BORE x 1/8" THK. 304SS ORIFICE PLATE, SEAL RING, CPA TYPE 50E FLOW CONDITIONER, STD SERVICE			200	200								B-2005-7489-02-001		
1	FE-711	1	2"-600# ANSI RF CANALTA SINGLE CHAMBER METER RUN: SCH.XH; FIG# 2.5 CONFIG.; c/w (1) 1/2" DIA. BORE x 1/8" THK. 304SS ORIFICE PLATE, HOLDER & HNBR SEAL RING, PIN STYLE STRAIGHTENING VANES, STD SERVICE			80	80								B-2005-7489-04-001		
	FFSD-410	1	KIMRAY HT-12PG HIGH TEMPERATURE PILOT GUARD ASSEMBLY: -30°F TO 2100°F TEMPERATURE RANGE c/w SEPARABLE SOCKET			8	8										
TOTAL PAGE WEIGHT (Lbs.):							2,547										
REVISIONS			NOTES: *** SEE NOTE COLUMN FOR APPLICATION NUMBERS *** 1. MATERIAL TO MEET THE NOTES AND REQUIREMENTS AS OUTLINED ON THE LAYOUT DRAWING.			BY: KRT		ALCO  GAS & OIL PRODUCTION EQUIPMENT LTD. The information contained herein is the confidential property of ALCO Gas & Oil Production Equipment Ltd., and is not for publication. The information is issued on the understanding that no part thereof shall be copied or communicated to a third party without authorization in writing from ALCO Gas & Oil Production Equipment Ltd.									
REV.	DATE	REV. BY				DATE: Aug. 29, 2005											
0	Sep. 1, 2005	KRT				CHK'D KEW											
1	Sep. 29, 2005	KRT				CHK'D											
						APP'D:											
BOM_Hookup.xlt (rev.1g), Printed: 12/13/2005						CUSTOMER: PIONEER NATURAL RESOURCES INC. c/o GEM PRODUCTION MANAGEMENT LTD.		LOCATION: SWALWELL CBM NORTH COMP. STN.									
NOTE: ONE (1) UNIT REQUIRED.						L.S.D.: 01-07-30-24 W4M		DWG/SHOP ORDER: B-2005-7489-50B-002/007								REV. 1	

[illegible]

[illegible]

[illegible]

REV. NO.	ITEM	QTY	DESCRIPTION	MATERIAL	NOTE	UNIT WEIGHT	TOTAL WEIGHT	WHSE	SUPPLIER	DEL'Y DATE	P.O. NUMBER	P.O. DATE	UNIT PRICE	TOTAL PRICE	REMARKS		
1	BA-2008	13 -6	1" NPT BALL VALVE: 2000 PSIG @ 100°F, REGULAR PORT; STD MATL'S			4.4	40										
	BA-2008	2	3/4" NPT BALL VALVE: 2000 PSIG @ 100°F, REGULAR PORT; STD MATL'S			2.4	5										
1	BA-2008	8 -6	1/2" NPT BALL VALVE: 2000 PSIG @ 100°F, REGULAR PORT; STD MATL'S			2.2	16										
1	BA-600	2	2"-600# RF BALL VALVE" 1480 PSIG @ 100°F; REGULAR PORT; STD MATL'S			37	74										
1	BA-600F	1	2"-600# RF BALL VALVE" 1480 PSIG @ 100°F; FULL PORT; STD MATL'S			37	37										
	CH-806P	1	3/4" SW PISTON CHECK VALVE: CLASS 800; 1975 PSIG @ 100°F REGULAR PORT; STD MATL'S			3	3										
	CH-808P	1	1/2" NPT PISTON CHECK VALVE: CLASS 800; 1975 PSIG @ 100°F REGULAR PORT; STD MATL'S			2.6	3										
1	CH-600S	1	2"-600# RF SWING CHECK VALVE; 1480 PSIG @ 100°F; REGULAR PORT; STD MATL'S			77	77										
	GA-806	16	3/4" SW GATE VALVE: CLASS 800; 1975 PSIG @ 100°F REGULAR PORT; STD MATL'S			4.4	70										
1	GL-808	1	1" NPT GLOBE VALVE: CLASS 800; 1975 PSIG @ 100°F REGULAR PORT; STD MATL'S			8.6	9										
1	GL-806	1	3/4" SW GLOBE VALVE: CLASS 800; 1975 PSIG @ 100°F REGULAR PORT; STD MATL'S			4.4	4										
3	NE-6008	19 48	1/4" NPT PANAM PNV-H-C-4-FF NEEDLE VALVE: A-105 BODY; STD TRIM			1.3	23										
3,2,1	NE-6008	3 -4	1/2" NPT PANAM PNV-H-C-8-FF NEEDLE VALVE: A-105 BODY; STD TRIM			1.3	4										
1	SV-6008	2	1/2" NPT PANAM 5VM-8-CS-R 5-VALVE MANIFOLD: A-105 BODY; 6000 PSIG @ 100°F; STD MATL'S			5	10										
	STR-510A	4	3/4" SW Y-STRAINER: 1480 PSIG @ 100°F; 1/32" PERFORATED SCREEN; STD MATL'S			5	20										
	STR-510B																
	STR-511A																
	STR-511B																
	STR-410	1	1" NPT Y-STRAINER: 300 PSIG @ 100°F; 1/32" PERFORATED SCREEN; C.I.; STD MATL'S			4.5	5										
TOTAL PAGE WEIGHT (Lbs.):							399										
REVISIONS			NOTES: *** SEE NOTE COLUMN FOR APPLICATION NUMBERS *** 1. MATERIAL TO MEET THE NOTES AND REQUIREMENTS AS OUTLINED ON THE LAYOUT DRAWING.			BY: KRT		ALCO  GAS & OIL PRODUCTION EQUIPMENT LTD. The information contained herein is the confidential property of ALCO Gas & Oil Production Equipment Ltd., and is not for publication. The information is issued on the understanding that no part therof shall be copied or communicated to a third party without authorization in writing from ALCO Gas & Oil Production Equipment Ltd.									
REV.	DATE	REV. BY				DATE: Aug. 29, 2005											
0	Sep. 1, 2005	KRT				CHK'D KEW											
1	Sep. 29, 2005	KRT				CHK'D											
2	Oct. 11, 2005	KRT				APP'D:											
3	Oct. 12, 2005	KRT				CUSTOMER: PIONEER NATURAL RESOURCES INC. c/o GEM PRODUCTION MANAGEMENT LTD.		LOCATION: SWALWELL CBM NORTH COMP. STN.									
			NOTE: ONE (1) UNIT REQUIRED.			L.S.D.: 01-07-30-24 W4M		DWG/SHOP ORDER: B-2005-7489-50B-006/007								REV. 3	

REV. NO.	ITEM	QTY	DESCRIPTION	MATERIAL	NOTE	UNIT WEIGHT	TOTAL WEIGHT	WHSE	SUPPLIER	DEL'Y DATE	P.O. NUMBER	P.O. DATE	UNIT PRICE	TOTAL PRICE	REMARKS
			*** ADDITIONAL ITEMS TO COMPLETE ASSEMBLY ***												
	290	3	3"-600# ANSI RF WN FLANGE w/ SCH. 40 BORE	SA-105	1	18	54								
	291	1	3"-600# ANSI RF x 1/8" THK. FLEXITALLIC GASKET	304SS	1	1	1								
	292	8	3/4" DIA x 5" LG. STUDS c/w (2) HEX NUTS EACH (3"-600#)	SA-193-B7/SA-194-2H	1	1.4	11								
1	293	1	2"-150# ANSI RF WN FLANGE w/ SCH. 40 BORE	SA-105	1	5	5								
1	294	11	2"-600# ANSI RF WN FLANGE w/ SCH. 80 BORE	SA-105	1	10	110								
1	295	10	2"-600# ANSI RF x 1/8" THK. FLEXITALLIC GASKET	304SS	1	1	10								
1	296	80	5/8" DIA x 4 1/4" LG. STUDS c/w (2) HEX NUTS EACH (2"-600#)	SA-193-B7/SA-194-2H	1	1.2	96								
	297														
	298	1	3"-900# ANSI RF WN FLANGE w/ SCH. 40 BORE	SA-105	1	29	29								
	299	1	3"-900# ANSI RF x 1/8" THK. FLEXITALLIC GASKET	304SS	1	1	1								
	300	8	7/8" DIA x 5 1/2" LG. STUDS c/w (2) HEX NUTS EACH (3"-900#)	SA-193-B7/SA-194-2H	1	1.5625	13								
1	301	4	2" SCH. 80 LR 90° BW ELBOW	SA-234-WPB	1	2	9								
	302	3	3" SCH. 40 LR 90° BW ELBOW	SA-234-WPB	1	9	27								
	303	2	3"x2" SCH. 40 x SCH. 80 BW CONCENTRIC REDUCER	SA-234-WPB	1	13	26								
1	304	1	3"x2" SCH. 40 x SCH. 80 BW REDUCING TEE	SA-234-WPB	1	10	10								
1	305	2	2" SCH. 40 LR 90° BW ELBOW	SA-234-WPB	1	2	3								
1	306	3	1"-3000# NPT T.O.L. (3 1/2-3)	SA-105	1	2	6								
	307	1	1/2"-3000# NPT T.O.L. (8-3)	SA-105	1	2	2								
1	308	2	1" NPT SOLID HEX. HEAD PLUG	SA-105	1	2	4								
1	309	2	1/2" NPT SOLID HEX. HEAD PLUG	SA-105	1	2	6								
1	310	2	1/2"-3000# NPT T.O.L. (2 1/2-2)	SA-105	1	2	4								
1	311	5	1"-3000# NPT T.O.L. (2)	SA-105	1	2	10								
	312	15 lin/ft	3" SCH. 40 SM'LS PIPE	SA-106-B	1	7.6 lb/ft	114								
1	313	13 lin/ft	2" SCH. 40 SM'LS PIPE	SA-106-B	1	3.65 lb/ft	47								
1	314	14 lin/ft	2" SCH. 80 SM'LS PIPE	SA-106-B	1	5.02 lb/ft	70								
1	315	1	2" SCH. 40 PIPE CAP	SA-234-WPB	1	2	2								
1	316	1	2"x1 1/2" SCH. 40 x SCH. 80 BW REDUCING TEE	SA-234-WPB	1	4	4								
1	317	1	2" SCH 80 x 1" SCH 80 CONC SWAGE (BLEXTSE)	SA-234-WPB	1	2	2								
1	318	1	2" SCH. 80 STRAIGHT TEE	SA-234-WPB	1	4	4								
1	319	1	1 1/2" SCH. 80 (BEXTSE) NIPPLE x 4" LG.	SA-106-B	1	2	2								
	320	1 LOT	1 1/2" & UNDER SCH. XH SML'S PIPE TO COMPLETE ASSEMBLY	SA-106-B	1		150								
	321	1 LOT	1 1/2" & UNDER SCH. 160 SML'S PIPE TO COMPLETE ASSEMBLY	SA-106-B	1		25								
	322	1 LOT	1 1/2" & UNDER NPT/SW 3000# FITTINGS TO COMPLETE ASSEMBLY	SA-105	1		100								
	325	1 LOT	TUBING TO BE 1/4"DIA. (0.035) 304SS c/w CADMIUM PLATED CS SWAGELOK (DOUBLE SS FERRULE) FITTINGS. INSTRUMENT VENTS AND PRESSURE SENSING LINES ARE 3/8"DIA. (0.035) MINIMUM.		1		50								
	329	1 LOT	ELECTRICAL HOOK-UP OF CATALYTIC HEATER c/w 30FT. HEAVY DUTY START-UP CABLES TO CURRENT EPB STANDARDS												