

Issuing Authority: Marvin J. (Ty) DeBelsler

Date of Issue: March 13, 2008



Quality Control

QCFOFinalInspectionReleaseCertificateR00

FINAL INSPECTION RELEASE CERTIFICATE

CUSTOMER: **Encana Oil and Gas**

SALES ORDER#: **200243**

PRODUCT: **1.25 mm btu/hr Lineheater / 3" Single Meter Pkg (Coil # NWP-1981-01) Unit 5 of 5**

WO#: **1950**

DATE: *Dec 16, 10*

FINAL INSPECTION DOCUMENTATION

REVIEWED BY:

ACCEPTED:

REJECTED:

STANDARD DOCUMENTATION REQUIREMENTS: (SEE DOCUMENT REQUIREMENT LIST)

ADDITIONAL DOCUMENT REQUIREMENTS: (TO BE RECORDED HERE IF APPLICABLE I.E. DOCUMENT PACKAGE REQUIRED BY CUSTOMER ETC.)

REQUIRED BY CUSTOMER ETC.)

Q.C. FILE CLOSURE BY: *[Signature]*

DATE: *Dec 28, 10*

LOOSE COMPONENTS REQUIRED / PREPARED

ITEMS REQUIRED:

NO. OF BOXES OR PKGS: *See packing list*

1.25 mm Lineheater Pkg
ADDITIONAL HARDWARE OR FASTENERS REQUIRED YES NO

PREPARATION FOR SHIPMENT / STORAGE

PREPARATION NEEDED / COMPLETED

Ready to ship

S/N # **NWP-1950-01**

PART # **100884**

INVENTORY TAGS ATTACHED YES NO

SHIPPING INSTRUCTIONS

CUSTOMER P.O. REVIEWED YES N/A

CONTACT PERSON AUTHORIZED TO RELEASE PRODUCT:

PHONE: FAX:

MAILED TO INVENTORY:

DATE:

MAILED TO CUSTOMER: *[Signature]*

DATE: *Dec 16, 10*



Box 6280, 4017-60th Avenue, Innisfail, AB. T4G 1S9 Phone: 403.227.4100 Fax: 403.227.4102
www.nwp.ca

SHIPPING MANIFEST FOR SHIPPED LOOSE ITEMS

Work Order # 1950 Serial Number: so200243
 Description of Product: 1.25 mm BTU/HR Lineheater Metering Skid Package
 Completed By: Colleen Tysoe Date: 17/12/10

QTY	UNIT	ITEM DESCRIPTION
	1 EA	TEG <i>to be allocated by warehouse</i>
	1 EA	Vent Stack <i>Outside Bay 7</i>
	1 Crates	Includes:
		4 Batteries
		2 Thermowells
		Studs, Bolts, Nuts
		3 gauges- 1@ 10000psi, 1@2000psi, 1@30psi
		Stack gasket with nuts and bolts
		2 H2S Brackets
		1 Indicator Light
		1 H2S sensors with connections to be shipped direct to GP Yard
		1 Flex Gaskets
		2 mufflers for pumps
	Misc	Includes:
		Bolt-On Platform and Hand Rails
		Awnings, eavestroughs, 1 tubing line in building
	1 Pallet	1 choke valve <i>to be allocated by warehouse</i>

Is a third party release certificate required Yes No
 All parts are boxed/on pallets Yes No
 There is no visible Damage Yes No
 All openings are plugged Yes No

Signature: *Colleen Tysoe*

ACCEPTANCE / REJECTION REPORT
FACILITIES ENGINEERING DEPARTMENT

Vendor NWP Industries Vendor Rep. (print) Colleen Tysoe Vendor Shop No. N/A

Project Name 1.25 MM BTU Meter/Line Heater Project No. N/A A.F.E. No. N/A P.O. No. CEDDB-38644

Material Description: 1 x 1.25 MM BTU Metering/Line Heater Pkg. - Unit Tag 200243

Status [X] Conditional Acceptance (explain below) [] Rejected (explain below)

Table with 2 columns: Item No. and Description. Contains 6 rows of inspection items.

QUALITY INSPECTOR ACKNOWLEDGES:

Signing this release is solely for the purpose of authorizing the supplier to ship the goods in accordance with the order. Such authorization shall not relieve the supplier of its obligations set out in the purchase order, including without limitation the warranty that the goods are free from defects.

SUPPLIER'S CONFORMANCE STATEMENT: We certify that the PO items listed, and the required QC / Shipping documentation meet or will meet the requirements at our costs all applicable Code, Standards, specification and other related documents as set forth in the purchase order document.

The accepted preliminary QC documentation, bill of lading, packing slip, and all related shipping documents must accompany the shipped goods and be added as a line item on the packing list.

Vendor Rep. Signature [Signature] Date Dec 16, 10

Inspectors Signature [Signature] Date Dec 16, 10

Partial Data Reports certified by sub-contractors are listed below and attached to this Data Report

No.	Line No.	Spool No.	Drg. No. (with Rev. No.)	Sub-contractor (Name)	AQP No. (if from Alberta)	Expiry (if from Alberta)

Remarks: For partial data report provide information about the code work that was not completed by the subcontractor (e.g., hydrotest, PWHT etc.). For final data report provide information about the code work that was not completed by subcontractors and subsequently completed by the primary contractor (e.g., hydrotest of entire assembly, PWHT etc.)

Endorse certificate 'A' or 'B'

A. CERTIFICATE OF COMPLIANCE

Signed by the subcontractor when supplying this certificate as a Partial Data Report

We certify that the statements in this Data Report are correct and that materials, construction and workmanship of the piping fabrication conform to the registered quality system and the applicable Piping code(s).

Date: _____
Subcontractor

Print Authorized Representative's Name Signature

This certificate is not valid unless it forms part of a Final Data Report signed by Primary Contractor

B. CERTIFICATE OF COMPLIANCE

Signed by the primary contractor when supplying this certificate as a Final Data Report

We certify that the statements in this Data Report are correct and that piping job no. s/o200243 described in this Data Report was constructed in accordance with the Province of Alberta Safety Codes Act and Regulations, and applicable ASME Piping Code(s).

Date: Dec 16, 2010 NWP Industries

Primary Contractor

Colleen Tysoe *[Signature]*
Print Authorized Representative's Name Signature

CERTIFICATE OF INSPECTION

I, the undersigned, employed by Encana Oil & Gas have inspected the piping

job no. s/o200243 described in this Pressure Piping Construction and Test Data Report and state that, to the best of my knowledge and belief, the Contractor has constructed this piping in accordance with the applicable Sections of the ASME Piping Codes and the Province of Alberta Safety Codes Act and Regulations.

Date: Dec 16, 2010

Date: _____

Kevin Fundytus

Name: _____ Sign: _____

Print Owner's Inspector's Name Owner's Inspector's Signature

ABSA Safety Codes Officer
(BOILER EXTERNAL PIPING ONLY)

Current version of this Form may be obtained from www.abns.ca

Issuing Authority: Marvin J. (Ty)
DeBelsler / Dale Karg

Date of Issue: November 30, 2007

Rev Status: 1.0



NWP
INDUSTRIES INC.

ABSA

FORM-NDE-001

N.D.E. Requirements

CLIENT: Encana Corp

W.O.# 1950

PROJECT: Threaded Piping

DATE: Nov 24, 10

PIPING: PRESSURE VESSEL: TANK: OTHER:

<input type="checkbox"/> X-RAY	<input checked="" type="checkbox"/> 100% <u>PSV</u>	<input type="checkbox"/> ASME SECTION VIII-UW-51
<input checked="" type="checkbox"/> GAMMA RAY	<input type="checkbox"/> FULL	<input type="checkbox"/> ASME SECTION VIII-UW-52
<input type="checkbox"/> ULTRASONICS	<input type="checkbox"/> 25%	<input type="checkbox"/> ASME B31.1
<input type="checkbox"/> LIQUID PENETRANT	<input checked="" type="checkbox"/> 10% <u>rdm</u>	<input type="checkbox"/> ASME B31.3 NFS
<input type="checkbox"/> MAGNETIC PARTICLE	<input type="checkbox"/> OTHER (DEFINE)	<input checked="" type="checkbox"/> OTHER (SPECIFY)
<input type="checkbox"/> ACCOUSTIC EMISSION		<u>Encana spec</u>

GENERAL INSTRUCTIONS:

Vessel s/n 50200243

P1 Material

Welder ID _____

Shell-T= _____

Pipe-T= 1" Sch 80

Total Welds 14 shots on threaded pipe

Please use wire type iQi

Please note all indications on films on reports

Please include O.F.D - S.O.D S.F.D on reports

SPECIAL REQUIREMENTS:

P.O.#

PREPARED BY:

DATE:

RADIOGRAPHIC TESTING REPORT

RT- 4412-08-GH

CLIENT: **NWP Industries Inc.** DATE: **24-Nov-10**

INVOICE ADDRESS: _____
INITIAL: _____

Job No.: **4412**
Branch: **Red Deer**
PO NO.: _____
WO No.: **1950**
SO No.: **200243**
Page: **1** of **1**

WORK LOCATION: _____
TEAM PROCEDURE: **RT-ASME.1 RB**

EXAMINATION STANDARD: _____
ACCEPTANCE STANDARD: **ENCANA spec.(100% of PSV, 10% of the rest)**

EXAMINATION OF: **ENCANA Lineheater Threaded Piping**

Direct Legend:	5 - Slag	LC - Low Cover	Units	inches
IF - Incomplete Fusion	BT - Burn Through	HB - Hollow Band	EP - Excessive Penetration	Type of Energy: r 192
IP - Incomplete Penetration	P - Porosity	C - Crack	SH - Strikethrough	Physical Size: 0.125"
UC - Undercutting	IC - Internal Concavity	AB - Arc Burn		Flux per Cassette: 1
				Material: PI

Radiograph Identification				Radiograph Geometry				Film Type	Object Film Distance	Source Object Distance	Reinforce Thickness	Weld Thickness	Base Material Thickness	Weld	Status
Weld ID	Location	Weld Size	Welder	Technique	Exposures per Weld	Weld Thickness	Base Material Thickness								
XT1	PSV Line	1"	threads	2/4	1	.179"	.179"	1.0"	2"	14"	1.0"	.179"	threads	Accept	
XT2	PSV Line	1"	threads	2/4	1	.179"	.179"	1.0"	2"	14"	1.0"	.179"	threads	Accept	
XT3	PSV Line	1"	threads	2/4	1	.179"	.179"	1.0"	2"	14"	1.0"	.179"	threads	Accept	
XT4	PSV Line	1"	threads	2/4	1	.179"	.179"	0.5"	2"	14"	0.5"	.179"	threads	Accept	
XT5	PSV Line	1"	threads	2/4	1	.179"	.179"	0.5"	2"	14"	0.5"	.179"	threads	Accept	
XT6	PSV Line	1"	threads	2/4	1	.179"	.179"	0.5"	2"	14"	0.5"	.179"	threads	Accept	
XT7	PSV Line	1"	threads	2/4	1	.179"	.179"	0.5"	2"	14"	0.5"	.179"	threads	Accept	
XT8	PSV Line	1"	threads	2/4	1	.179"	.179"	0.5"	2"	14"	0.5"	.179"	threads	Accept	
XT9	PSV Line	1"	threads	2/4	1	.179"	.179"	1.0"	2"	14"	1.0"	.179"	threads	Accept	
XT10	PSV Line	1"	threads	2/4	1	.179"	.179"	1.0"	2"	14"	1.0"	.179"	threads	Accept	
XT11	PSV Line	1"	threads	2/4	1	.179"	.179"	1.0"	2"	14"	1.0"	.179"	threads	Accept	
XT12	PSV Line	1"	threads	2/4	1	.179"	.179"	0.5"	2"	14"	0.5"	.179"	threads	Accept	
XT13	PSV Line	1"	threads	2/4	1	.179"	.179"	0.5"	2"	14"	0.5"	.179"	threads	Accept	
XT14	PSV Line	1"	threads	2/4	1	.179"	.179"	1.0"	2"	14"	1.0"	.179"	threads	Accept	

Interpretation is in accordance with the above mentioned standard, to the best of my professional ability.
 A021 RE R1
 Technician: **Charles Hallett** CGSBSINT Level: **III/II** Reg No: **11205** Assistant: **Craig Olsen**
 The above representation is a professional opinion, final interpretation is the responsibility of the client. I have reviewed and am in full agreement with the contents of this report.
 Client Representative: (Print) _____ Date: **November 10**

NWP INDUSTRIES INCORPORATED

QUOTED EQUIPMENT TRAVEL SHEET

APPROVED BY: *[Signature]*

DATE: *Dec/07/2010*

UNIT SN NWP-1950-01 ~ SO 200243

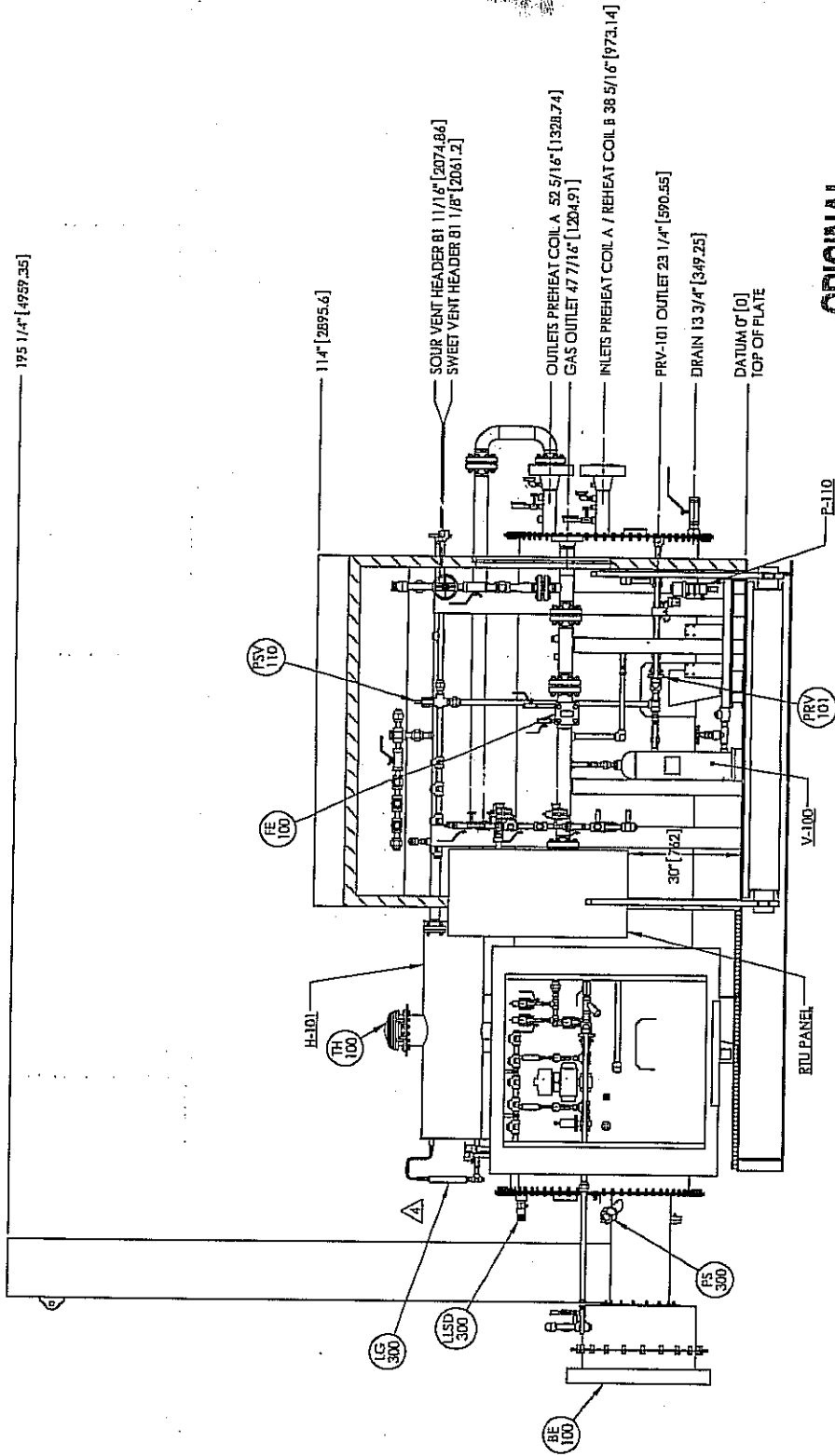
WO #: 1950 DESCRIPTION: 1.25 mm btu/hr Lineheater / 3" Single Meter Pkg (Coil # NWP-1981-01) Unit 5 of 5

DRAWING #: 100884 Rev. 4, 100884-1 Rev. 8, 100884-2 Rev. 2

	REQ.	HOLD	EMPLOYEE INT.	DATE COMPLETE	QC INIT.	DATE
QUOTATION REVIEWED	✓		<i>[Signature]</i>			
WORK INSTRUCTIONS ISSUED	✓		<i>[Signature]</i>	<i>Dec 8</i>	<i>[Signature]</i>	<i>Dec 8, 10</i>
WORK INSTRUCTIONS REVIEWED	✓		<i>[Signature]</i>	<i>Dec 8</i>	<i>[Signature]</i>	<i>Dec 8, 10</i>
ABSA NOTIFIED FOR INSTALLATION INSPECTION	N/A					
MATERIAL & PARTS RELEASED	✓		<i>[Signature]</i>	<i>Dec 8</i>	<i>[Signature]</i>	<i>Dec 8, 10</i>
HYDRO TEST PIPING	<i>N/A</i>					
INSTRUMENTATION	✓		<i>[Signature]</i>		<i>[Signature]</i>	<i>Dec 10</i>
PNEUMATIC LEAK TEST	✓		<i>[Signature]</i>		<i>[Signature]</i>	<i>Dec 10</i>
INSTRUMENTATION VALVES/FUNCTION TEST	✓		<i>[Signature]</i>		<i>[Signature]</i>	<i>Dec 10</i>
VISUAL INSPECTION P & ID CHECKED	✓				<i>[Signature]</i>	<i>Dec 10</i>
VISUAL INSPECTION OF BUILDING & RECEIVING OF P.O.	✓				<i>[Signature]</i>	<i>Dec 10</i>
ANY CHANGE ORDERS VERIFIED COMPLETE	N/A				—	
PREPARED FOR SHIPMENT & PACKAGE LOOSE ITEMS, TEST, CRATED AND DOCUMENTED	✓				<i>[Signature]</i>	<i>Dec 10</i>
VISUAL INSPECTION AFTER PAINT & RECEIVING OF P.O.	✓				<i>[Signature]</i>	<i>Dec 10</i>
PACKAGING / PRESERVATION REQUIREMENTS COMPLETE	✓				<i>[Signature]</i>	<i>Dec 10</i>
SERVICING REQUIREMENTS DEFINED AND APPROVED	N/A				—	
C INSPECTION & FINAL RELEASE AND STICKER ATTACHED	✓				<i>[Signature]</i>	<i>Dec 10</i>

ACCEPTED BY CUSTOMER _____ DATE _____

195 1/4" [4959.35]



FRONT VIEW
SCALE: 1:30

ISSUED FOR CONSTRUCTION
ORIGINAL

ISSUED FOR CONSTRUCTION
SCALE: 1:30
DATE: 2010.03.31
CHK: GH
APP: DF

REV	DATE	BY	CHK	APP	DESCRIPTION
4	2010.07.13	CW	JHK	DF	REVISED AS PER RDC #00223
3	2010.06.11	CW	GH	DF	REVISED AS PER RDC #00177
2	2010.06.11	CW	GH	DF	REVISED AS PER RDC #00199
1	2010.06.03	CW	GH	DF	REVISED AS PER RDC # 00176
D	2010.05.03	CW	GH	DF	ISSUED FOR CONSTRUCTION
B	2010.04.15	CW	GH	DF	ISSUED FOR APPROVAL
A	2010.03.31	JHK	GH	DF	ISSUED FOR APPROVAL

ENCANA CORPORATION
LINE HEATER AND METERING PACKAGE
1.25 MMBTU/HR, 48" OD X 180" S/S
(1) 3"-600 ANSI JR METER RUN
GENERAL ARRANGEMENT

NMP
INDUSTRIES INC.
Total original supply.
F.O. BOX 6280, INNSFALL, AB T4G 1S9
PH: (403) 227-4100 FAX: (403) 227-4102

THIS DRAWING IS PROPERTY OF NMP INDUSTRIES INC.
ALL RIGHTS ARE RESERVED WITHOUT PERMISSION.
THIS DRAWING MUST BE RETURNED UPON REQUEST.

SCALE: 1:30
DATE: 2010.03.31
SHEET: 2 OF 3
DWG: 100884
REV: 4

ORIGINAL

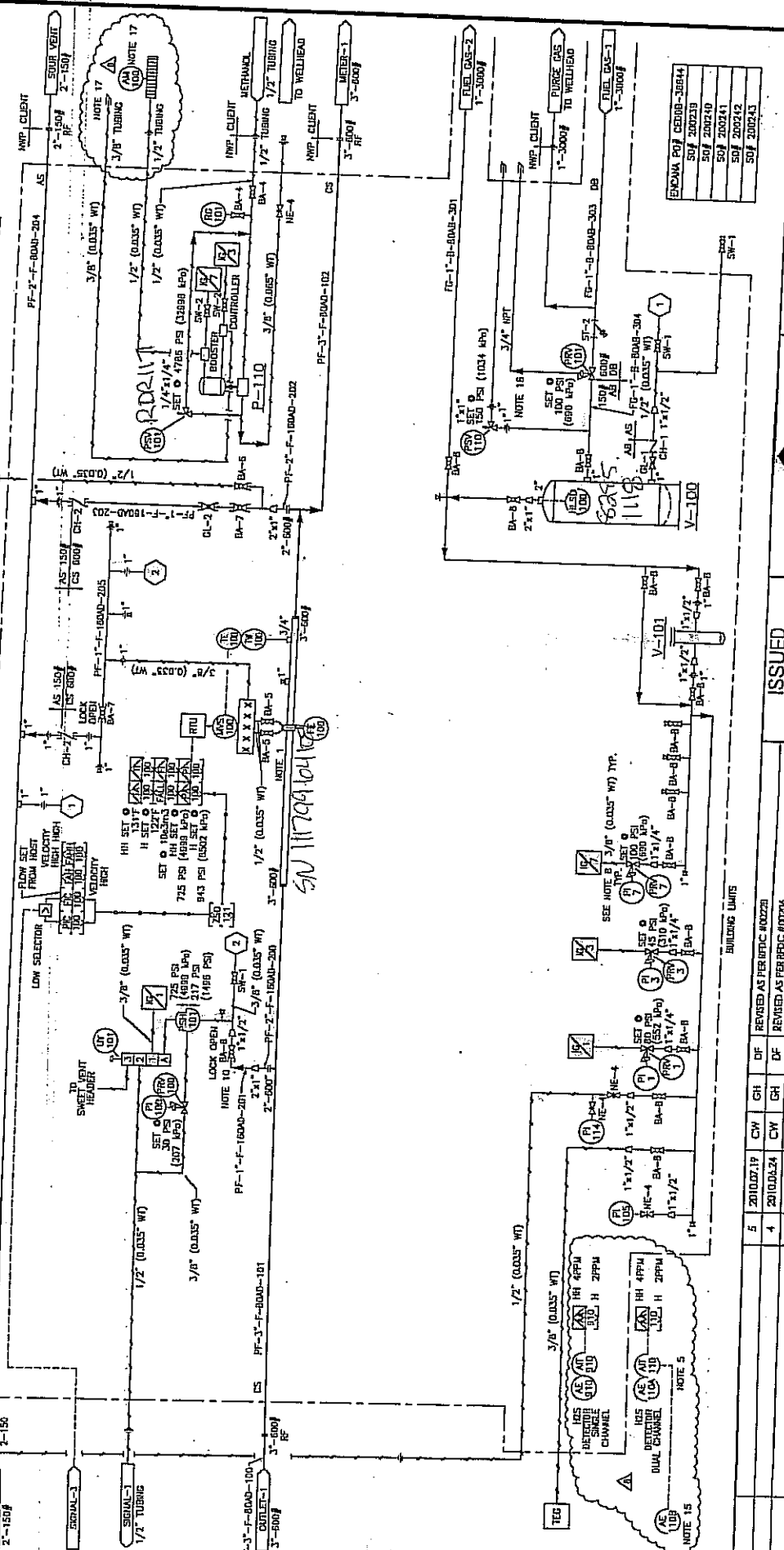
V-100 FUEL GAS SCRUBBER
 SIZE: 8" DIA. VERTICAL
 MAX. DISCHARGE 205 PS (1025 KPa) @ 150°F
 C.A. 1/8" VENT
 DRN. NO. DRS14B213G

V-101 FUEL GAS FILTER
 MFR. HEBULINE
 NO. 380A-20
 MAX. DISCHARGE 205 PS (1025 KPa) @ 150°F
 C.A. 1/8" VENT

P-110 METHANOL PUMP
 MFR. WILLIAMS
 1/2" PLUNGER
 MAX. DISCHARGE 9200 PS (5343 KPa)

V-100 FUEL GAS SCRUBBER
 SIZE: 8" DIA. VERTICAL
 MAX. DISCHARGE 205 PS (1025 KPa) @ 150°F
 C.A. 1/8" VENT

V-101 FUEL GAS FILTER
 MFR. HEBULINE
 NO. 380A-20
 MAX. DISCHARGE 205 PS (1025 KPa) @ 150°F
 C.A. 1/8" VENT



ENCANA CORPORATION
 LINE HEATER AND METERING PACKAGE
 1.25 MM BTU/HR, 48" OD x 180' S/S
 (1) 3" - 600 JR METER RUN
 PIPING AND INSTRUMENTATION DIAGRAM

DWN: JHK CHK: GH APP: DF
 DATE: 10.03.29 DATE: 10.05.07 DATE: 10.05.07
 SCALE: NTS SHEET: 1 OF 4

NWP INDUSTRIES INC.
 11180 111th Ave. S.W.
 P.O. BOX 4242, INYATAIL AB 74G 157
 PH: (403) 227-4101 FAX: (403) 227-4102

THIS DRAWING IS PROPERTY OF NWP INDUSTRIES INC. AND
 MAY NOT BE REPRODUCED WITHOUT PERMISSION. THIS
 DRAWING MUST BE RETURNED UPON REQUEST.

ISSUED FOR CONSTRUCTION
 SIGNED: *[Signature]*
 DATE: Dec 17/2010
 W.O. 1950
 S.O. 2070 243

REV	DATE	BY	CHK	APP	DESCRIPTION
5	2010.07.17	CW	GH	DF	REVISED AS PER PDC #00220
4	2010.04.24	CW	GH	DF	REVISED AS PER PDC #00204
3	2010.04.11	CW	GH	DF	REVISED AS PER PDC #00189 & #00179
2	2010.04.03	JHK	GH	DF	REVISED AS PER PDC #00175
1	2010.03.07	CW	GH	DF	REVISED AS PER PDC #00256
7	2010.07.29	CW	GH	DF	REVISED AS PER PDC #00244
6	2010.07.22	CW	CF	DF	REVISED AS PER PDC #00224

DOCUMENT NO	DESCRIPTION
100945	GENERAL ARRANGEMENT
100884	SHEED ASSEMBLY
100943	COIL ASSEMBLY

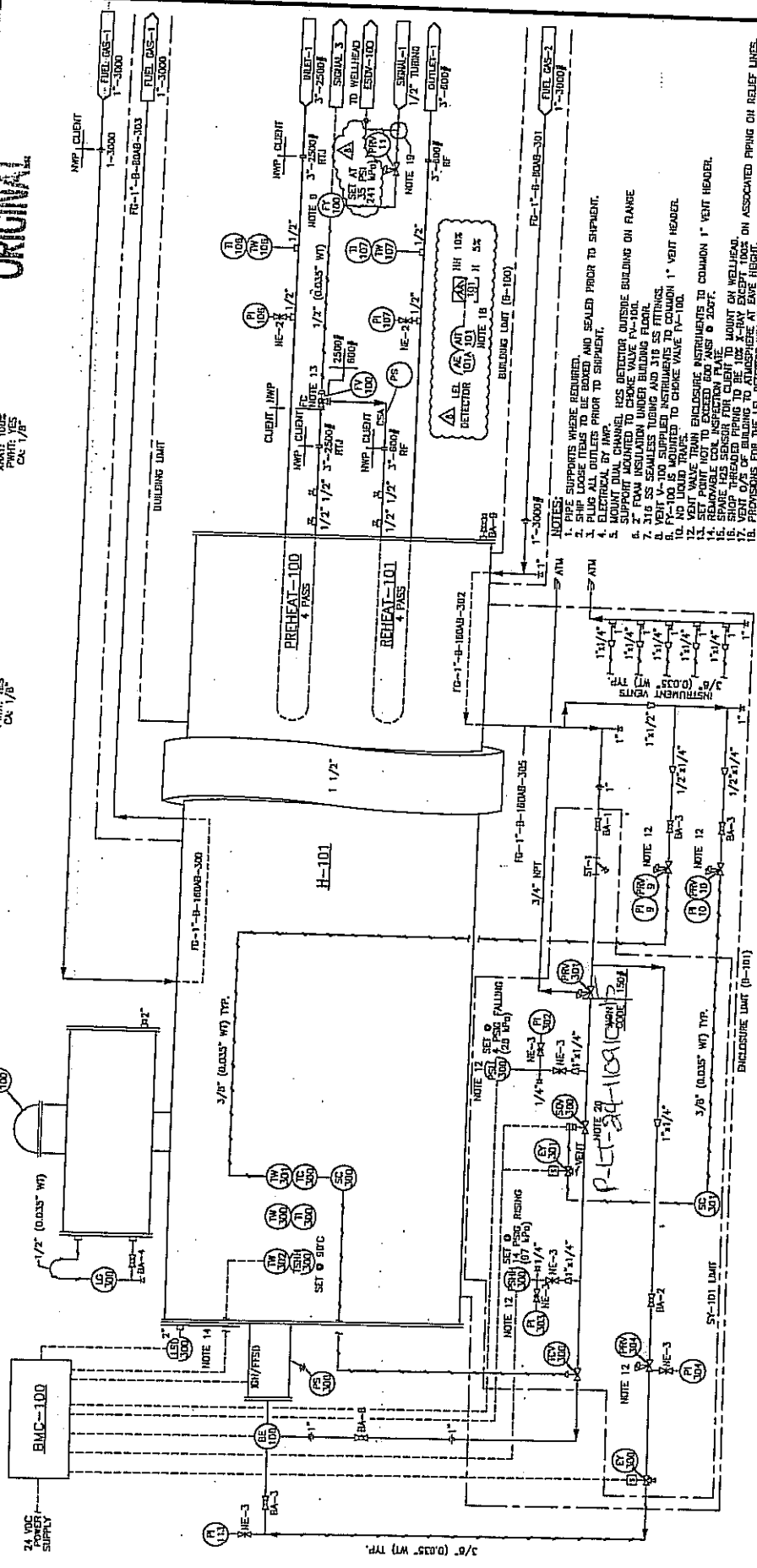
BMC-100
BURNER MANAGEMENT SYSTEM
MODEL NRP 451 5500
24 VDC
POWER
SUPPLY

H-101
LINE HEATER
NRP NWP INDUSTRIES
SIZE: #18-180-3/2
DATE: 1.25 MMBTU/HR

PREHEAT-100
COIL A
NRP NWP INDUSTRIES
DESIGN: 500T PSC (6300 LPO) @ 200F
P/N: 1000
C/K: 1/8"

REHEAT-101
COIL B
NRP NWP INDUSTRIES
DESIGN: 1500 PSC (6300 LPO) @ 200F
P/N: 1000
C/K: 1/8"

ORIGINAL



- NOTES:
1. SHIP SUPPORTS WHERE REQUIRED.
 2. SHIP LOGS TO BE BOXED AND SEALED PRIOR TO SHIPMENT.
 3. PLUG ALL GUNTS PRIOR TO SHIPMENT.
 4. ELECTRICAL BY NWP.
 5. MOUNT DUAL CHANNEL HOS DETECTOR OUTSIDE BUILDING ON FLANGE.
 6. SUPPORT MOUNTED TO CHROME VALVE F.W. 100.
 7. 3/8" VS SEAMLESS TUBING AND 3/16 SS FITTINGS.
 8. 1/2" VS SEAMLESS TUBING AND 1/2" SS FITTINGS.
 9. F.W. 100 IS MOUNTED TO CHROME VALVE F.W. 100.
 10. NO LIQUID TRAP.
 11. KEY VALVE TRAP ENCLOSURE INSTRUMENTS TO COMMON 1" VENT HEADER.
 12. KEY VALVE TRAP TO EXCEED 600 ANSI @ 200F.
 13. REMOVABLE COIL TO EXCEED 600 ANSI @ 200F.
 14. REMOVABLE COIL TO EXCEED 600 ANSI @ 200F.
 15. SPARE HAS SENSOR FOR CLIENT MOUNT ON WELLHEAD.
 16. SPARE HAS SENSOR FOR CLIENT MOUNT ON WELLHEAD.
 17. PROVISIONS FOR WELDING TO ATMOSPHERE AT LINE HEATER.
 18. INSTALL 1/2" ESD VALVE NEAR AS CLOSE TO THE OUTSIDE WALL AS POSSIBLE.
 19. 8149.3 COMPLIANT.

ISSUED FOR CONSTRUCTION
DATE: Dec 07/2015
W.O.: 1950
S.O.: 200243

NWP INDUSTRIES INC.
P.O. BOX 6024 WINGFIELD, AB T4G 1S9
PH: (403) 222-4100 FAX: (403) 222-4100
A full oilfield supply.

ENCANA CORPORATION
LINE-HEATER AND METERING PACKAGE
1.25 MMBTU/HR, 48" OD X 180' S/S
(1) 3"-600 IR METER RUN
PIPING AND INSTRUMENTATION DIAGRAM

REV	DATE	BY	CHK	APP	DESCRIPTION
5	2010.07.19	CW	GH	DF	REVISED AS PER RFDC #00028
4	2010.04.24	CW	GH	DF	REVISED AS PER RFDC #00008
3	2010.04.11	CW	GH	DF	REVISED AS PER RFDC #00191 & #00199
2	2010.04.03	JHK	GH	DF	REVISED AS PER RFDC #00175
1	2010.03.07	CW	GH	DF	REVISED AS PER RFDC #00254
7	2010.07.29	CW	GH	DF	REVISED AS PER RFDC #00244
6	2010.07.22	CW	CF	DF	REVISED AS PER RFDC #00224

COMMENT NO	DESCRIPTION
1	REFERENCE DRAWINGS

SCALE	DATE	DATE	DATE	DATE
SCALE: NTS	DATE: 10.03.07	DATE: 10.05.07	DATE: 10.09.07	DATE: 10.09.07


DWNG	JHK	CHK	GH	APP	DF
DATE	10.03.07	DATE	10.05.07	DATE	10.09.07

SHEET: 2 OF 4
DWG: 100884-1
REV: R

Bill of Materials

DESCRIPTION

TAG#	DESCRIPTION	QTY.	PART#	TAG#	DESCRIPTION	QTY.	PART#	QTY.	PART#
51-101	VALVE TRIM - ENCAPSULATED PRESSURIZED VALVE TRIM ** SEE BELOW**	1	100691	BA-3	BALL VALVE - MFR: NUTRON, SIZE 1/4" NPT x NPT 2000 WOG, CS BODY, REG PART, STD TRIM	1	100691	3	807613
51-1	Y-STRAINER 1" NPT	1	732029	BA-4	BALL VALVE - MFR: NUTRON, MODEL NO. TA, SIZE 1/2" NPT x NPT 3000 WOG, CS BODY, FULL PORT, STD TRIM	1	732029	3	112056
PRV-301	MAN REGULATOR - FISHER 027	1	100692	BA-5	BALL VALVE - MFR: NUTRON, SIZE 1/2" NPT x NPT 3000 WOG, CS BODY, FULL PORT, INCH TRIM	1	100692	2	100316
501-300	MAN SOLENOID - AGL-SSV-11-24 PNEUMATIC TEST 6.5 WITH PROOF OF CLOSURE, 1" NPT, PNEUMATIC-ACTUATOR, 60-PSI SUPPLY, SS BODY, 24 VDC	1	100694	BA-6	BALL VALVE - MFR: NUTRON, SIZE 1/2" NPT x NPT 3000 WOG, CS BODY, REG PART, INCH	1	100694	2	789600
TCV-300	TEMPERATURE CONTROL VALVE - FISHER 118 PNEUMATIC	1	100690	BA-7	BALL VALVE - MFR: NUTRON, SIZE 1" SW x SW 3000 WOG, CS BODY, REG PART, INCH	1	100690	2	316819
SC-306/1	SPEED CONTROL VALVE - INGS10000	2	100671	BA-8	BALL VALVE - MFR: NUTRON, MODEL NO. TA, SIZE 1" NPT x NPT 3000 WOG, CS BODY, REG PART, INCH	2	100671	15	072084
PRV-304	MAN REGULATOR - FISHER 027R	1	973333	BA-9	BALL VALVE - MFR: NUTRON, MODEL NO. TA, SIZE 2" NPT x NPT 3000 WOG, CS BODY, REG PART, STD TRIM	1	973333	1	914874
PSIH-300	HIGH FUEL PRESSURE SHUTDOWN SWITCH SET @ 14 PSI ISONS	1	100695			1	100695		
PSUL-300	LOW FUEL PRESSURE SHUTDOWN SWITCH SET @ 4 PSI FALLING	1	100694			1	100694		
EY-300	PILOT SOLENOID - AGL-SV-SSV-1-24	1	100695	CL-1	GLOBE VALVE - MFR: NEWCO, SIZE 1" NPT x NPT OR EQUAL CLASS 800, 316 SS TRIM	1	100695		
PI-302/3/4	PRESSURE GAUGES	1	100695	CL-2	GLOBE VALVE - MFR: NEWCO, SIZE 1" SW x SW OR EQUAL CLASS 1500, 316 SS TRIM	1	100695		
BA-1	BALL VALVE - ENCO - 1" NPT REQUIRED FOR 014B.3 COMPLIANCE	3	100699			3	100699		
BA-2	BALL VALVE - ENCO - 1/4" NPT REQUIRED FOR 014B.3 COMPLIANCE	1	100697	SW-1	VALVE - MFR: SWAGelok, MODEL NO. SS-4575R 1/2" TUBING x 1/2" TUBING	1	100697		
		1	100699	SW-2	PLUG VALVE - MFR: SWAGelok 3/8" TUBING, 316 SS	1	100699	4	100421
PS-300	PEEP SITE CLASS	1	100150	SK-100	SKID - SIZE 11' x 14' L, MAIN MEMBERS 12" @ 26 WIDE FLANGE, 3/16" CHECKER FLOORING (BUILDING AREA) 3/16" x 1/4" SERATED BAR BRACING (LANDING), 4 POINT LIFT, HANDRAILS, 2" SPRAY ON FINE RETARDANT UNDERFLOOR INS.	1	100150	2	180483
CH-1	CHECK VALVE - MFR: CROWN, SIZE 1" NPT 2000 WOG OR EQUAL	1		B-100	SELF FRAME BUILDING - SIZE: 8' W x 11' L x 8' H, CABLE STYLE ROOF, EXT. 22 GA. 744 W/ METRO BROWN, INT. 24 GA FLUTED ALUMINUM 6/4" R12 INSULATION & 4" VAPOR BARRIER, DUAL 3" x 7" DOORS 2/4" ING, CHECK CHAIR, CANCELO, AND WEATHER STRIPPING, (1) 30" x 36" DOUBLE GLAZED SLIDING WINDOW (2) 12"x12" ABL DOORS, ICE RAKE EAVES TROUGH W/ (2) DOWNSPOUTS, 12" WEATHERED VISIT ENCLOSURE - SIZE: 24" W x 63" L x 61" H	1			
CH-2	CHECK VALVE - MFR: NEWCO, SIZE 1" SW x SW CLASS 800 OR EQUAL	1				1			
ST-2	Y-STRAINER - MFR: ALTA STRAINER, MODEL NO. Y5000 1" NPT, 2000 WOG	1	882205	PMHT	SP7C-SP 6-3 COMMERCIAL BLAST COVERABLE UNIVERSAL PERIODIC PRIMER SERIES 03 1.5-2 mils DFT COVERABLE 435 SERIES DTM POLYURETHANE ENAMEL 2-3 mils DFT SKID, GUARD RAILS, LADDER, GRATING - BLACK, FIRE TUBE STACK - HIGH HEAT BLACK VESSELS, PIPING, PIPE SUPPORTS - WARM GREY	1	882205		
NE-2	NEEDLE VALVE - MFR: ANDERSON GREENWOOD, SIZE: 1/2" NPT M x F 316 SS TRIM, 6000 PSI OR EQUAL	5	20100719	CW	GH	DF	REVISED AS PER RDC #00228		
NE-3	NEEDLE VALVE - MFR: ANDERSON GREENWOOD, 1/4" 6000 M x F STRAIGHT SS BODY 316 SS TRIM, 6000 PSI OR EQUAL	4	20100624	CW	GH	DF	REVISED AS PER RDC #00235		
NE-4	NEEDLE VALVE - MFR: ANDERSON GREENWOOD 1/2" 6000 M x F STRAIGHT SS BODY 316 SS TRIM, 6000 PSI OR EQUAL	3	20100611	CW	GH	DF	REVISED AS PER RDC #00189 & #00199		
		2	20100603	JHK	GH	DF	REVISED AS PER RDC #00175		
		7	20100720	CW	GH	DF	REVISED AS PER RDC #00254		
		4	20100722	CW	CF	DF	REVISED AS PER RDC #00244		



NAMP
INDUSTRIES INC.
Total efficient supply.
P.O. BOX 6298 WILSONAL, AL 36689
PH: (404) 227-4100 FAX: (404) 227-4102

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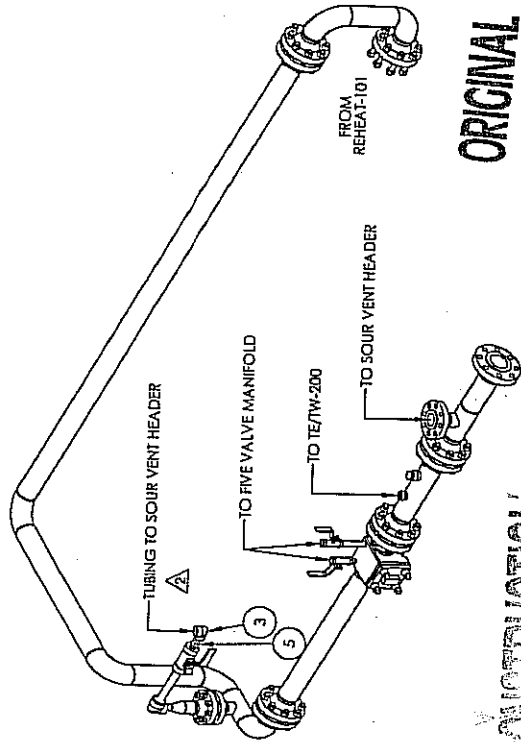
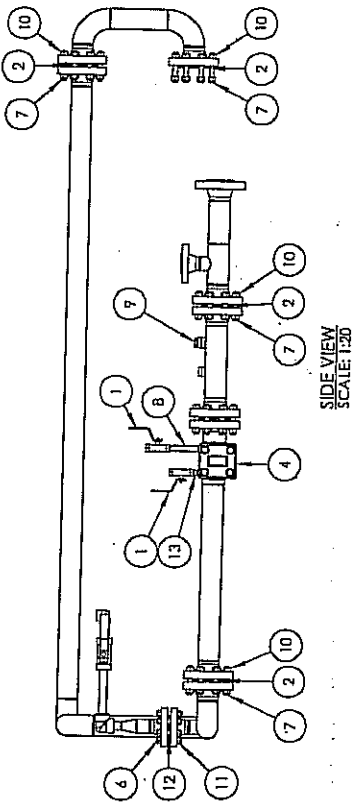
DATE: Dec 10, 2010
W.D.: 1960
S.D.: 2004.3

ENCANA CORPORATION
LINEHEATER AND METERING PACKAGE
1.25 MMBTU/HR 48" OD x 180' S/S
PIPING AND INSTRUMENTATION DIAGRAM

DWN: JHK CHG: GH APP: DF
DATE: 10.09.29 DATE: 10.05.07 DATE: 10.05.07
SCALE: NTS SHEET: 4 OF 4 DWG: 100884-1 REV: 8

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ITEM	MATERIAL	PART #	DESCRIPTION	MTR #	LENGTH	QTY.
1	-	100345	1/2" 3000 PSI NUTRON T3 NACE TRIM FP BALL VALVE			2
2	316 SS	107910	5" 3000/600 ANSI RF SPIRAL WOUND GASKET			2
3	SA-105N	248832	1/2" CL 4000 THRD 90 ELBOW			4
4	-	395099	METER RUN, 3"-200 ANSI RF, TUB TO JUNIOR ORIFICE, AGA-3C (2000 LBS), SOUR		64"	1
5	SA-105	410638	1" x 1/2" SCH. XXH SWAGE			1
6	ASTM-A193	433978	B7M STUD 5/8" DIA. x 4 1/4" LG			8
7	ASTM-A193	529250	B7M STUD 3/4" DIA. x 5" LG			32
8	SA-106B	544433	1/2" x 8" SCH. XXH RIPPLE			1
9	SA-106N	627588	1" CL 4000 THRD HEX PLUG			1
10	ASTM-A194	655035	2HM HEX NUT 3/4" DIA.			44
11	ASTM-A194	698363	2HM HEX NUT 5/8" DIA.			16
12	316 SS	777116	2"-300/600 ANSI RF SPIRAL WOUND GASKET			1
13	SA-106B	455437	NIPPLE, 1/2" x 2" SCH XXH			1



ORIGINAL

ISSUED FOR CONSTRUCTION

ISOMETRIC VIEW
SCALE: 1:20

NOTES
1. 10% XRAY REQUIRED ON SHOP THREADED PIPE UNLESS NOTED OTHERWISE

ENCANA CORPORATION LINEHEATER AND METERING PACKAGE 1.25 MMABTU/HR. 48" OD x 180' S/S (1) 3"-600 ANSI JR METER RUN PIPING ASSEMBLIES	DWN: CW CHK: JHK APP: DF
DATE: 2010.04.23 SCALE: 1:20	DATE: 2010.05.04 SHEET: 1 OF 8
DWG: 100884-2	REV: 2

NWP
INDUSTRIAL DESIGN
TECHNICAL SUPPLY

P.O. BOX 6280, INNSALL, AB T4G 1S7
PH: (403) 227-4100 FAX: (403) 227-4102

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ISSUED FOR CONSTRUCTION	ALL DIMENSIONS IN INCHES
SIGNED: [Signature]	
DATE: JUL 20 2010	
BY: [Signature]	
NO. 1950	
SO. 200243	

REV	DATE	BY	CHK	APP	DESCRIPTION
2	2010.07.13	CW	JHK	DF	REVISED AS PER REFC #00223
1	2010.06.10	CW	JHK	DF	REVISED AS PER REFC #00188
0	2010.04.23	CW	JHK	DF	ISSUED FOR CONSTRUCTION

REFERENCE DRAWINGS

ITEM	MATERIAL	PART #	DESCRIPTION	MTR #	LENGTH	QTY.
1	-	-	SCRUBBER FLOAT VALVE FOR FIELD ON LO-TECH SCRUBBER	-	-	1
2	CS	051868	CROWN 1" 2160 PSI SWING CHECK VALVE (15-T08R21)	-	-	1
3	CS	072084	1" 3000 PSI NUTRON T3 STD TRIM RP BALL VALVE	-	-	1
4	-	100209	FARRIS RELIEF VALVE 1" X 1" SET @ 150 PSI NACE TRIM (2200-SERIES)	-	-	1
5	-	100927	VALVE GLOBE NEWCO 1" NPT CL 800 NACE	-	-	1
6	SA-105	131991	1/2" CL 6000 THRD HEX PLUG	-	-	1
7	-	193998	LOTECH FUEL GAS SCRUBBER 6 5/8" OD X 25 1/2" S/S	-	-	1
8	SA-1068	209895	1" X 3" SCH. XH/80 NIPPLE	-	-	1
9	SA-1068	313964	1" X 10" SCH. XH/80 NIPPLE	-	-	2
10	SA-105	342671	1" CL 3000 THRD UNION	-	-	2
11	SA-105	410638	1" X 1/2" SCH. XH SWAGE	-	-	7
12	SA-105	532669	1/2" CL 3000 THRD 90 ELBOW	-	-	1
13	SA-1068	587227	3/4" X 1 1/2" SCH. XH/80 NIPPLE	-	-	1
14	SA-1068	610180	1" X 2 1/2" SCH. XH/80 NIPPLE	-	-	1
15	SA-105	681428	1" CL 3000 THRD TEE	-	-	8
16	SA-1068	686796	1" SCH. XH/80 PIPE	-	52 3/16"	2
17	SA-1068	686796	1" SCH. XH/80 PIPE	-	39 3/16"	1
18	SA-1068	686796	1" SCH. XH/80 PIPE	-	9 5/16"	1
19	SA-1068	686796	1" SCH. XH/80 PIPE	-	6 13/16"	1
20	SA-36/44W	742597	STEEL ANGLE IRON - 2" X 2" X 1/4"	-	11"	2
21	SA-1068	743719	1" X 4 1/2" SCH. XH/80 NIPPLE	-	-	1
22	SA-105	752666	1" CL 3000 THRD 90 ELBOW	-	-	4
23	SA-105	778134	3/4" CL 3000 THRD 90 ELBOW	-	-	2
24	SA-1068	785175	1" X 5" SCH. XH/80 NIPPLE	-	-	1
25	SA-1068	806008	3/4" SCH. XH/80 PIPE	-	37 1/8"	1
26	CS	868205	1" CL 800 ANSI THRD Y-STRAINER (YS800)	-	-	1
27	-	898689	FISHER 627 PRESSURE REGULATOR 1" NPT 70-150 PSI 2000 MAWP 1/2" ORIFICE	-	-	1

STEEL FORGINGS FABRICATION

NOTES
 1. 10% XRAY REQUIRED ON SHOP THREADED PIPE UNLESS OTHERWISE NOTED OTHERWISE
 2. 100% XRAY REQUIRED

DESIGN DATA	
LINE NUMBER:	FG-1-B-80A-B-304
CLIENT SPECIFICATION:	AB
DESIGN & FABRICATE TO:	ANSI/ASME B31.3 NPS 2008 EDITION
DESIGN PRESSURE:	277 PSI
MAXIMUM DESIGN TEMPERATURE:	130°F
MINIMUM DESIGN TEMPERATURE:	-20°F
SERVICE:	SWEET
HYDROSTATIC TEST PRESSURE:	416 PSI
JOINT SEALANT:	JET LUBE IF-15
CORROSION ALLOWANCE:	1/16"
G.C. PROGRAM NO.:	AGP-1293

DESIGN DATA	
LINE NUMBER:	FG-1-B-80A-B-303
CLIENT SPECIFICATION:	CA
DESIGN & FABRICATE TO:	ANSI/ASME B31.3 NPS 2008 EDITION
DESIGN PRESSURE:	1440 PSI
MAXIMUM DESIGN TEMPERATURE:	130°F
MINIMUM DESIGN TEMPERATURE:	-20°F
SERVICE:	SWEET
HYDROSTATIC TEST PRESSURE:	2160 PSI
JOINT SEALANT:	JET LUBE IF-15
CORROSION ALLOWANCE:	1/16"
G.C. PROGRAM NO.:	AGP-1293

ISSUED FOR CONSTRUCTION

SIGNED: *[Signature]* DATE: **JUL 20 2010**

W.O.R. **1950**

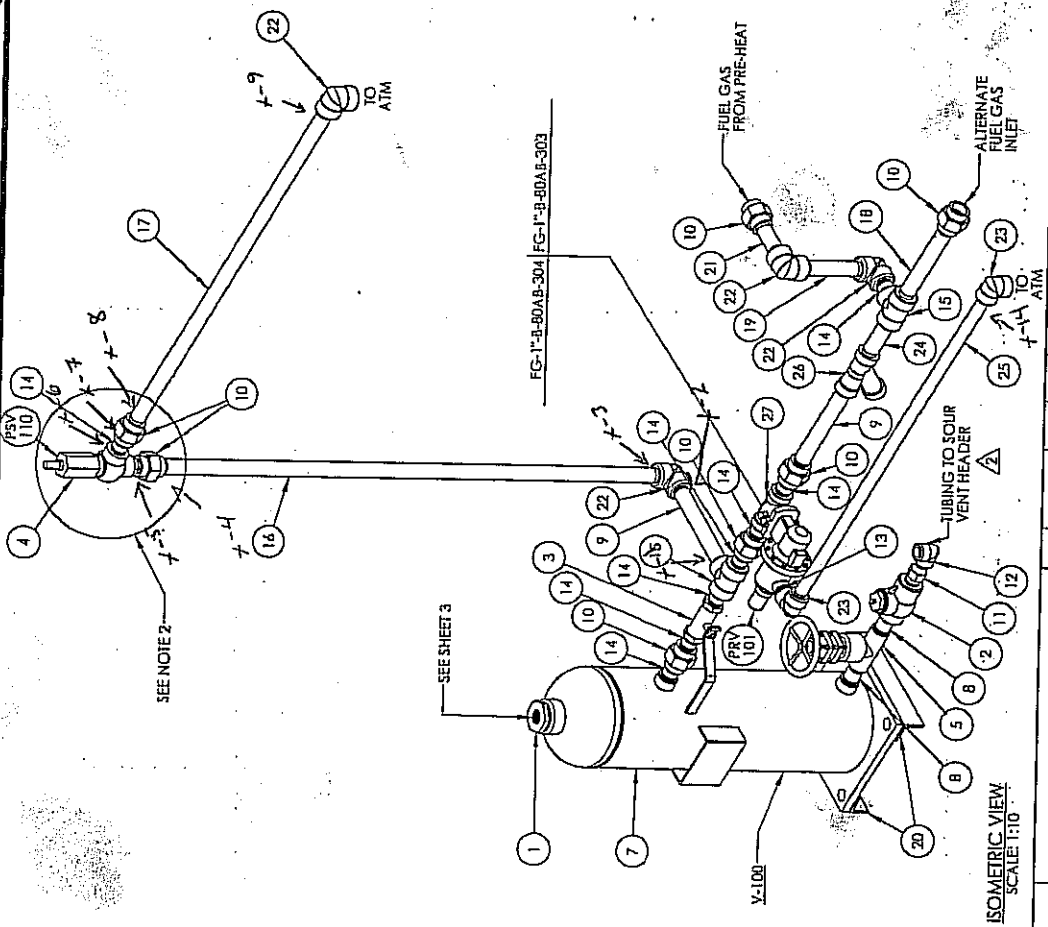
S.O. **200243**

NWP INDUSTRIES INC.
 P.O. BOX 6280, INDIANAPOLIS, IN 46219-0280
 PH: (403) 227-4100 FAX: (403) 227-4100

ENCANA CORPORATION
 LINEHEATER AND METERING PACKAGE
 1-25 MMABTU/HR. 46" OD X 180" S/S
 (1) 3"-600 ANSI JR METER RUN
 PIPING ASSEMBLIES

DWN: CW CHR: JHK APP: DF
 DATE: 2010.04.23 DATE: 2010.05.06 DATE: 2010.05.06
 SCALE: 1:10

DWG: 100894-2 REV: 2



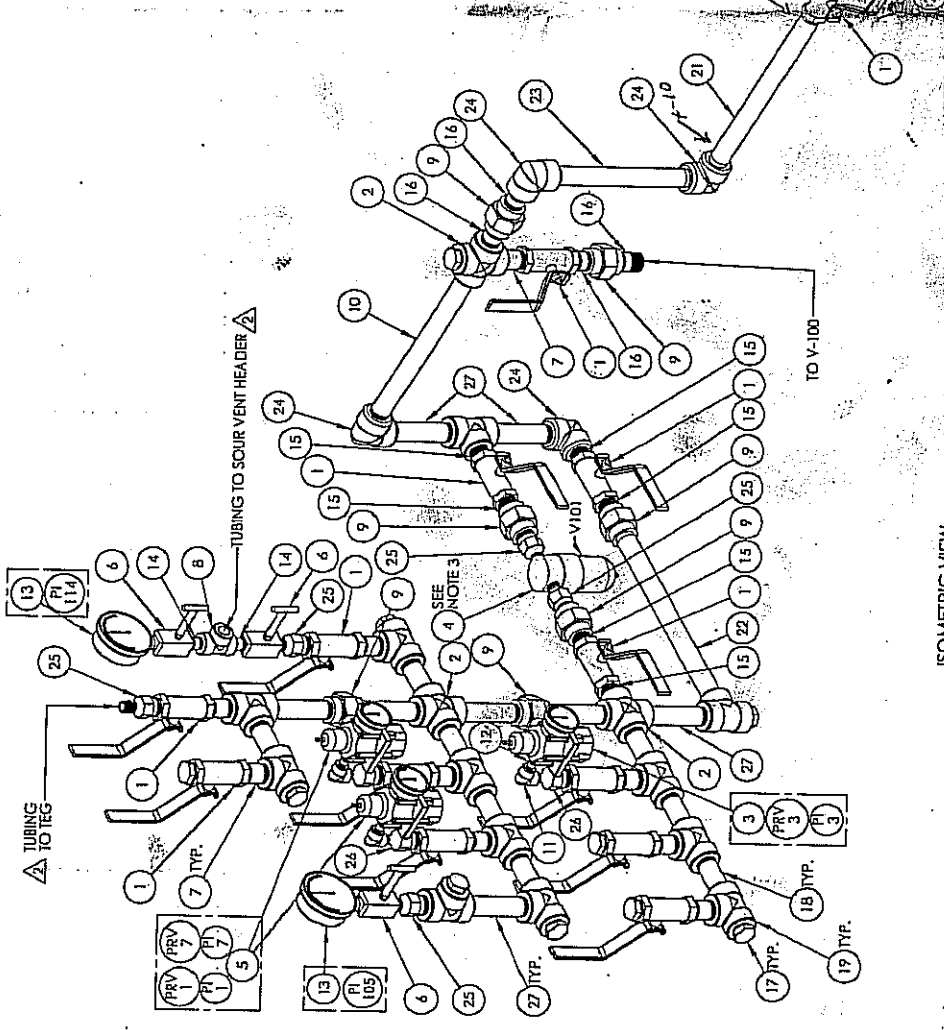
REV	DATE	BY	CHK	APP	DESCRIPTION
2	2010.07.13	CW	JHK	DF	REVISED AS PER RFDC #00223
1	2010.06.10	CW	JHK	DF	REVISED AS PER RFDC #00188
0	2010.04.23	CW	JHK	DF	ISSUED FOR CONSTRUCTION

DRAWING REVISIONS

REFERENCE DRAWINGS

ITEM	MATERIAL	PART #	DESCRIPTION	MTR #	LENGTH	QTY.
1	CS	072084	1" 3000 PSI NUTRION TO STD TRIM RP BALL VALVE			13
2	SA-105	097921	1" CL 3000 THRD CROSS			3
3	STD TRIM	100164	REGULATOR FISHER, 67CFR, 0-60 PSI C/W GAUGE			1
4		100218	FILTER, HEADLINE, MMT 3/4x70, MAMP 230 PSI, 1/2" NPT			1
5	STD TRIM	100402	REGULATOR FISHER, 67CFR, 0-125 PSI C/W GAUGE			1
6		101228	NEEDLE VALVE, MAGNUM 1/2" FAF, 6000 PSI, F50			3
7	SA-1068	209895	1" x 3" SCH. XH/80 NIPPLE			9
8	SA-105	301404	1/2" CL 3000 THRD TEE			1
9	SA-105	362871	1" CL 3000 THRD UNION			8
10	SA-1068	345152	1" x 1.5" SCH. XH/80 NIPPLE			1
11	SA-105	438424	1/4" CL 3000 THRD 90 ELBOW			3
12	SA-1068	444123	1/4" x 2" SCH. XH/80 NIPPLE			2
13	SS	486369	HYDROPOISE PRESSURE GAUGE, MDT, 402" - 4" FACE x 1/2" NPT, 0-300 PSI			3
14	SA-1068	525621	1/2" x 2" SCH. XH/80 NIPPLE			2
15	SA-1068	593042	1" x 2" SCH. XH/80 NIPPLE			2
16	SA-1068	610180	1" x 2 1/2" SCH. XH/80 NIPPLE			6
17	SA-105N	627588	1" CL 6000 THRD HEX PLUG			5
18	SA-1068	673640	1" x 4" SCH. XH/80 NIPPLE			10
19	SA-105	681628	1" CL 3000 THRD TEE			6
20	SA-1068	686796	1" SCH. XH/80 PIPE		9 1/8"	12
21	SA-1068	686796	1" SCH. XH/80 PIPE		16"	1
22	SA-1068	686796	1" SCH. XH/80 PIPE		16 7/16"	1
23	SA-1068	711561	1" x 12" SCH. XH/80 NIPPLE			1
24	SA-105	759466	1" CL 3000 THRD 90 ELBOW			5
25	SA-105	833938	1" x 1/2" SCH. XH/80 SWAGE			5
26	SA-105N	840339	1" x 1/4" SCH. XH/80 SWAGE			3
27	SA-1068	963792	1" x 6" SCH. XH/80 NIPPLE			8

ISSUED FOR CONSTRUCTION



DESIGN DATA	
LINE NUMBER:	EG-15-B-80AB-301
CLIENT SPECIFICATION:	AB
DESIGN & FABRICATE TO:	ANSI/ASME B31.3 MFS 2008 EDITION
DESIGN PRESSURE:	277 PSI
MAXIMUM DESIGN TEMPERATURE:	130°F
MINIMUM DESIGN TEMPERATURE:	-20°F
SERVICE:	SWEET
HYDROSTATIC TEST PRESSURE:	416 PSI
JOINT SEALANT:	JET LUBE TF-15
CORROSION ALLOWANCE:	17.6
G.C. PROGRAM NO.:	AGP-1251

NMP
 NATIONAL METALS INC.
 TUBING SUPPLY
 P.O. BOX 6280, ANNE ARBOR, MI 48106
 PH: (408) 225-5100 FAX: (408) 227-4102

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ENCANA CORPORATION
 LINE HEATER AND METERING PACKAGE
 1.25 MM BTU/Hr, 48" OD x 180' S/S
 (1) 3"-400 ANS IJR METER RUN
 PIPING ASSEMBLIES

DWN: CW CRK: JHK APP: DF
 DATE: 2010.04.23 DATE: 2010.05.04 DATE: 2010.05.04
 SCALE: 1/8" = 1'-0"
 SHEET: 3 OF 8 DWG: 100884-2 REV: 2

ISSUED FOR CONSTRUCTION

NOTES:
 1. TORX KEY REQUIRED ON SHOP THREADED PIPE UNLESS NOTED OTHERWISE
 2. ITEMS 11, 12 AND 22 ARE TYPICAL WITH REGULATOR ASSEMBLIES #3 AND 5
 3. REMOVE ITEMS 11 AND 22 FOR HYDROTESTING LINE

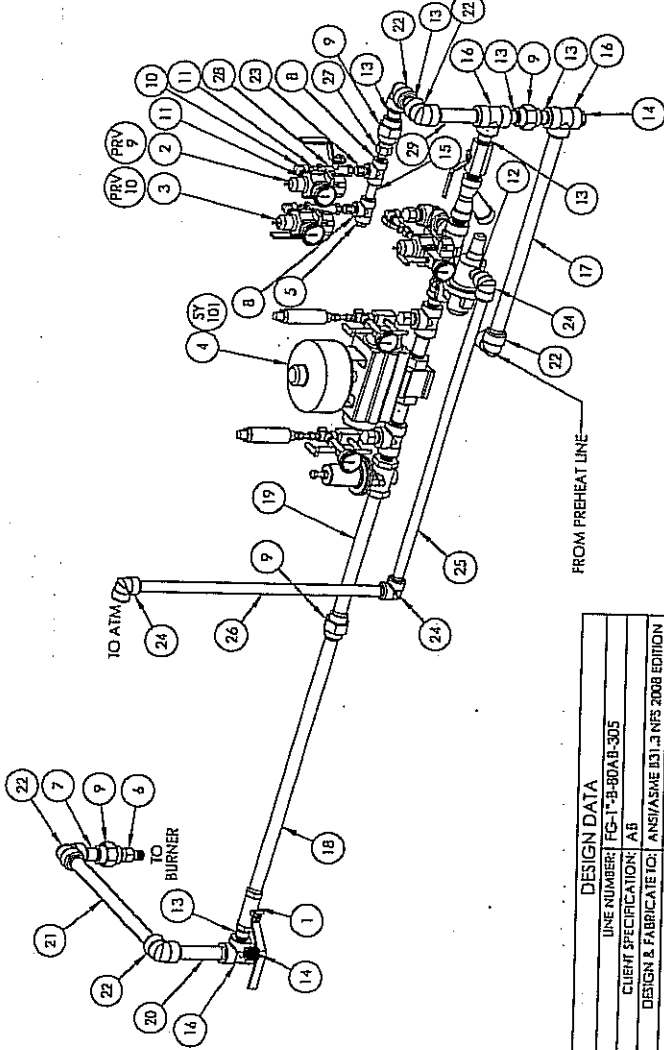
SCALE: 1/8" = 1'-0"

DATE: JUL 30 2010

REVISED AS PER RDC 100223
 REVISED AS PER RDC 100188
 ISSUED FOR CONSTRUCTION

REV	DATE	BY	CHK	APP	DESCRIPTION
2	2010.07.13	CW	JHK	DF	REVISED AS PER RDC 100223
1	2010.06.10	CW	JHK	DF	REVISED AS PER RDC 100188
0	2010.04.23	CW	JHK	DF	ISSUED FOR CONSTRUCTION

REFERENCE DRAWINGS



DESIGN DATA	
LINE NUMBER:	FG-1-B-80AB-305
CLIENT SPECIFICATION:	AB
DESIGN & FABRICATE TO:	ANSI/ASME B31.3 NPS 2008 EDITION
DESIGN PRESSURE:	277 PSI
MAXIMUM DESIGN TEMPERATURE:	130°F
MINIMUM DESIGN TEMPERATURE:	-20°F
SERVICE:	SWEET
HYDROSTATIC TEST PRESSURE:	416 PSI
JOINT SEALANT:	JET LUBE TF-15
CORROSION ALLOWANCE:	1/16"
G.C. PROGRAM NO.:	AGF-1253

REV	DATE	BY	CHK	APP	DESCRIPTION
2	2010.07.13	CW	JHK	DF	REVISED AS PER RFDC #00223
1	2010.06.10	CW	JHK	DF	REVISED AS PER RFDC #00188
0	2010.04.23	CW	JHK	DF	ISSUED FOR CONSTRUCTION

ITEM	MATERIAL	PART #	DESCRIPTION	MTR #	LENGTH	QTY.
1	CS	072084	1" 3000 PSI NUTRON T3 STD TRIM RP BALL VALVE			1
2	STD TRIM	100164	REGULATOR FISHER, 67CFR, 0-60 PSI C/W GAUGE			1
3	STD TRIM	100402	REGULATOR FISHER, 67CFR, 0-125 PSI C/W GAUGE			1
4		100891	VALVE TRIM (RIGHT TO LEFT) ENCANA SPEC			1
5	SA-105	131991	1/2" CL 3000 THRD HEX PLUG			1
6	SA-105N	188371	1" x 3/4" SCH. XH/80 SWAGE			1
7	SA-106B	209895	1" x 3" SCH. XH/80 NIPPLE			1
8	SA-105	301604	1/2" CL 3000 THRD TEE			2
9	SA-105	342871	1" CL 3000 THRD UNION			4
10	SA-105	438424	1/4" x 2" SCH. XH/80 NIPPLE			2
11	SA-106B	444123	3/4" x 1 1/2" SCH. XH/80 NIPPLE			4
12	SA-106B	587227	1" x 2 1/2" SCH. XH/80 NIPPLE			6
13	SA-106B	610180	1" CL 3000 THRD HEX PLUG			2
14	SA-106B	627588	1" x 3" SCH. XH/80 NIPPLE			1
15	SA-106B	640311	1" CL 3000 THRD TEE			3
16	SA-106B	686796	1" SCH. XH/80 PIPE		24 3/4"	1
17	SA-106B	686796	1" SCH. XH/80 PIPE		31 3/16"	1
18	SA-106B	686796	1" SCH. XH/80 PIPE		15 3/8"	1
19	SA-106B	686796	1" SCH. XH/80 PIPE		4 5/8"	1
20	SA-106B	686796	1" SCH. XH/80 PIPE		18 13/16"	1
21	SA-105	752666	1" CL 3000 THRD 90 ELBOW			5
22	SA-105	769584	1/2" x 1/4" SCH. XH/80 SWAGE			2
23	SA-105	778134	3/4" SCH. XH/80 PIPE			3
24	SA-106B	806008	3/4" SCH. XH/80 PIPE		34 1/8"	1
25	SA-105	833938	1" x 1/2" SCH. XH/80 SWAGE		29 5/8"	1
26	CS	897613	1/4" 3000 PSI NUTRON T3 STD TRIM RP BALL VALVE			1
27	SA-106B	963792	1" x 8" SCH. XH/80 NIPPLE			2

ISOMETRIC VIEW
SCALE: 1:12

ISSUED FOR CONSTRUCTION

ORIGINAL

NOTES
1. 10% XRAY REQUIRED ON SHOP THREADED PIPE UNLESS NOTED OTHERWISE

ENCANA CORPORATION LINEHEATER AND METERING PACKAGE 1.25 MMBTU/HR, 48" OD x 180" S/S (1) 3"-600 ANSI JR METER RUN PIPING ASSEMBLIES	
ENCANA	APP: DF
DATE: 2010.04.23	DATE: 2010.05.06
SCALE: 1:12	SHEET: 4 OF 8
DWG: 100884-2	REV: 2

NWP
INDUSTRIES, INC.
Industrial supply,
P.O. BOX 6280, MINNISALE, AB T4G 1S9,
PH: (403) 227-4100, FAX: (403) 227-4102

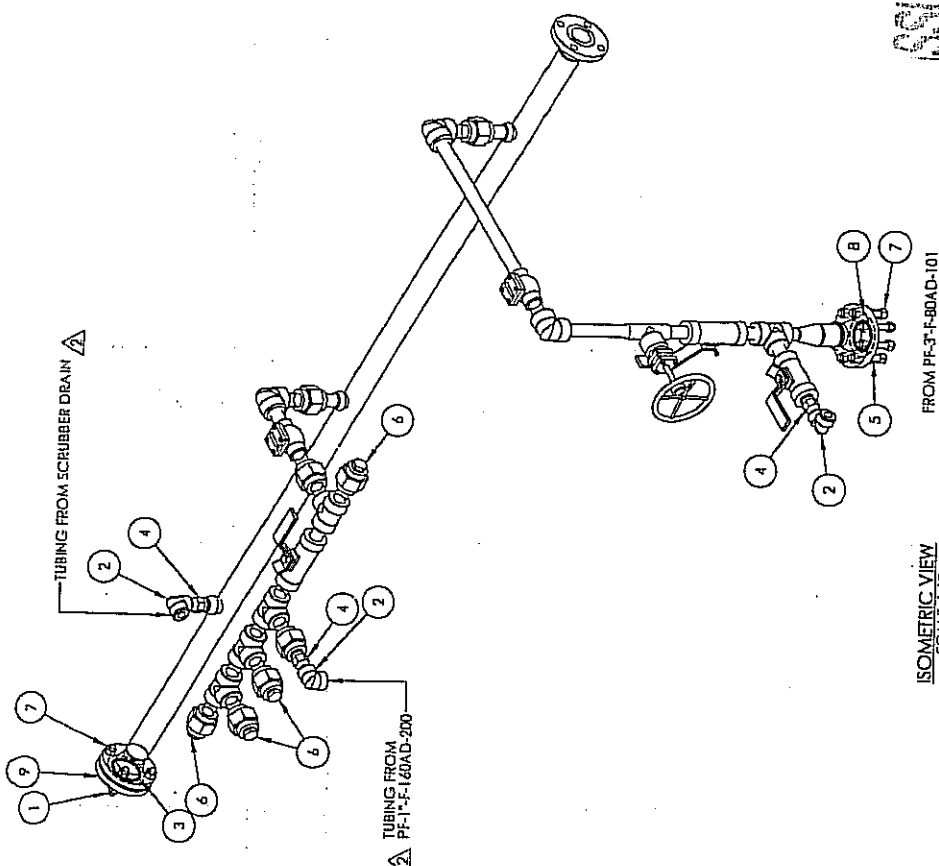
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DESIGNED: [Signature]
DATE: 10/10/10
DRAWN: [Signature]
SCALE: 1:12

DRAWING REVISIONS

ALL DIMENSIONS IN INCHES

ITEM	MATERIAL	PART #	DESCRIPTION	MTR #	LENGTH	QTY.
1	ASTM-193	05402D	B7M STUD 5/8" DIA. x 3 1/2" LG			4
2	SA-105N	248832	1/2" CL 6000 THRD 90 ELBOW			4
3	316 SS	263242	2"-150 ANSI RF SPIRAL WOUND GASKET			3
4	SA-105	410638	1" x 1/2" SCH. XXH SWAGE			1
5	ASTM-193	43397B	B7M STUD 5/8" DIA. x 4 1/4" LG			3
6	SA-105N	627588	1" CL 6000 THRD HEX PLUG			8
7	ASTM-A194	698353	2HM HEX NUT 5/8" DIA.			4
8	316 SS	777116	Z-300/600 ANSI RF SPIRAL WOUND GASKET			24
9	SA-105N	101096	2"-150 ANSI RF BLIND 1/2" TAPPED FLANGE			1



ISSUED FOR CONSTRUCTION

ORIGINAL

NOTES
 1. USE XRAY REQUIRED ON SHOP THREADED PIPE UNLESS NOTED OTHERWISE

ENCANA CORPORATION LINE HEATER AND METERING PACKAGE 1.25 MMBTU/HR, 48" OD x 180' 5/8" (1) 3"-600 ANSI JR METER RUN PIPING ASSEMBLIES	
DWN: CW	CHK: JHK
DATE: 2010.04.23	DATE: 2010.05.06
SCALE: 1:12	DATE: 2010.05.06
SHEET: 35 OF 8	DWG: 10084-2
REV: 2	

NWP
 INDUSTRIAL PIPING
 TECHNOLOGIES SUPPLY
 P.O. BOX 4280, INDIANAPOLIS, IN 46240-1159
 PH: (403) 227-4100 FAX: (403) 227-4102

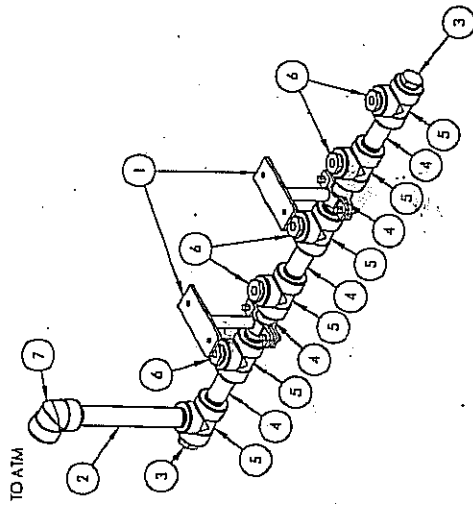
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ISSUED FOR CONSTRUCTION
 SIGNED: [Signature]
 DATE: JUL 3 2010
 W.O. 1350
 SO: 200343

DOCUMENT NO.	DESCRIPTION	REV	DATE	BY	CHK	APP	DRAWING REVISIONS
10084-1	PIPING AND INSTRUMENTATION DIAGRAM	2	2010.07.13	CW	JHK	DF	REVISED AS PER RPOC #00223
10084-1	GENERAL ARRANGEMENT	1	2010.04.10	CW	JHK	DF	REVISED AS PER RPOC #00188
		0	2010.04.23	CW	JHK	DF	ISSUED FOR CONSTRUCTION

ALL DIMENSIONS IN INCHES

ITEM	MATERIAL	PART #	DESCRIPTION	MTR #	LENGTH	QTY.
1		100812	BRA CKET, FUEL GAS VENT HEADER 1"			2
2	SA-106B	313964	1" x 10" SCH. XH/80 NIPPLE			1
3	SA-105N	627588	1" CL 6000 THRD HEX PLUG			2
4	SA-106B	673640	1" x 4" SCH. XH/80 NIPPLE			5
5	SA-105	681628	1" CL 3000 THRD TEE			6
6	SA-105N	706720	1" x 1/4" FS THRD HEX BUSHING			5
7	SA-105	752666	1" CL 3000 THRD 90 ELBOW			1



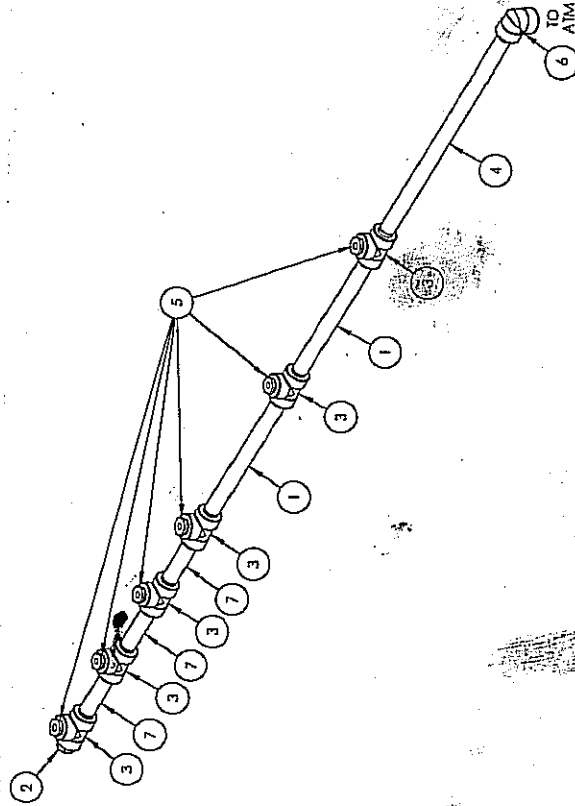
VALVE TRAIN HEADER
SCALE: 1:8

NOTES
1. 10% XRAY REQUIRED ON SHOP THREADED PIPE UNLESS NOTED OTHERWISE

DOC/UNGN ID.	REVISION	DATE	BY	CHK	APP	DESCRIPTION
1008B4-1	2	2010.07.13	CW	JHK	DF	REVISED AS PER RFDG #00223
1008B4	1	2010.06.10	CW	JHK	DF	REVISED AS PER RFDG #00186
	0	2010.04.23	CW	JHK	DF	ISSUED FOR CONSTRUCTION

DRAWING REVISIONS

ITEM	MATERIAL	PART #	DESCRIPTION	MTR #	LENGTH	QTY.
1	SA-106B	365132	1" x 15" SCH. XH/80 NIPPLE			2
2	SA-105N	627588	1" CL 6000 THRD HEX PLUG			1
3	SA-105	681628	1" CL 3000 THRD TEE			6
4	SA-106B	686796	1" SCH. XH/80 PIPE		25.3/16"	1
5	SA-105N	706720	1" x 1/4" FS THRD HEX BUSHING			6
6	SA-105	752666	1" CL 3000 THRD 90 ELBOW			1
7	SA-106B	963792	1" x 6" SCH. XH/80 NIPPLE			3



SWEET HEADER
SCALE: 1:10

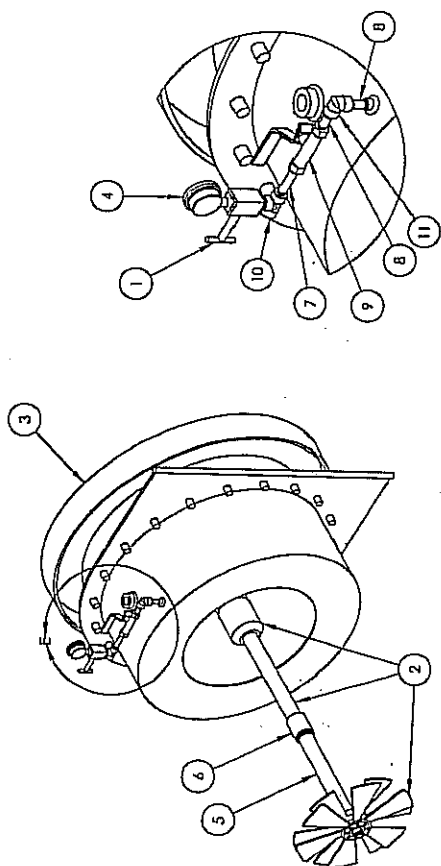
ORIGINAL

ISSUED FOR CONSTRUCTION

NOTES
1. 10% XRAY REQUIRED ON SHOP THREADED PIPE UNLESS NOTED OTHERWISE

<p>NMP INDUSTRIES INC. Tactical and supply P.O. BOX 6280, MINISTAL, AB T4G 1S9 PH: (403) 227-4100 FAX: (403) 227-4102</p>		<p>ENCANA CORPORATION LINEHEATER AND METERING PACKAGE 1.25 MMBTU/HR, 48" OD x 180" S/S (1) 3"-600 ANSI JR METER RUN PIPING ASSEMBLIES</p>	
<p>ISSUED FOR CONSTRUCTION</p> <p>SIGNED: <i>[Signature]</i> DATE: 4/11/2010 BY: JHK S.D. 500000</p>		<p>DWN: CW CHK: JHK APP: DF DATE: 2010.04.23 SCALE: 1:8 SHEET: 6 OF 8</p>	
<p>ALL DIMENSIONS IN INCHES</p>		<p>DATE: 2010.04.23 DATE: 2010.05.04 DATE: 2010.05.06 REV: 2</p>	

ITEM	MATERIAL	PART #	DESCRIPTION	MTR #	LENGTH	QTY.
1	-	100864	NEEDLE VALVE, MAGNUM 1/4" M&F, 6000 PSI, MF25			1
2	-	101087	INTERVALS 1.25MM			1
3	-	101095	BURNER WENCO 1.25M TPC ALUM 2" FLAME CELL			1
4	SS	122376	WIKA PRESSURE GAUGE - 2 1/2" FACE x 1/4" NPT 0-30 PSI			1
5	SA-106-B	176510	PIPE 1-1/2" SCH 80		16"	1
6	SA-105N	260322	FULL COUPLING 1 1/2" CL 3000			1
7	SA-106B	341114	1/4" x 3" SCH. XH/80 NIPPLE			1
8	SA-106B	444123	1/4" x 2" SCH. XH/80 NIPPLE			2
9	CS	897613	1/4" 3000 PSI NUTRON T3 STD TRIM FP BALL VALVE			1
10	SA-105	942045	1/4" CL 3000 THIRD TEE			1
11	SA-105	438424	1/4" CL 3000 THRD 90 ELBOW			1



ISOMETRIC VIEW
SCALE 1:1.5

NOTES
1. 10% XRAY REQUIRED ON SHOP THREADED PIPE UNLESS NOTED OTHERWISE

DOCUMENT NO.	DESCRIPTION	REV	DATE	BY	CHK	APP
100864-1	PIPING AND INSTRUMENTATION DIAGRAM	2	2010.07.13	CW	JHK	DF
100864	GENERAL ARRANGEMENT	1	2010.04.10	CW	JHK	DF
		0	2010.04.23	CW	JHK	DF

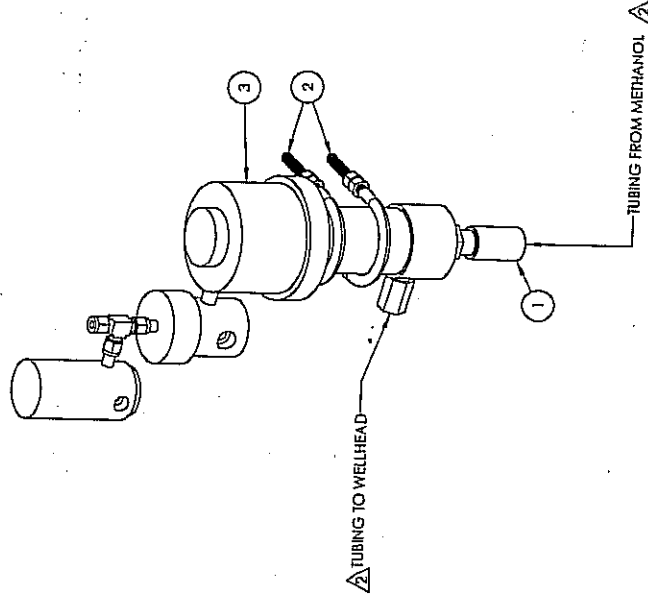
REFERENCE DRAWINGS

DATE	BY	CHK	APP
2010.07.13	CW	JHK	DF
2010.04.10	CW	JHK	DF
2010.04.23	CW	JHK	DF

REVISIONS

NO.	DATE	BY	CHK	APP	DESCRIPTION
1	2010.07.13	CW	JHK	DF	REVISED AS PER RFD C 100223
2	2010.04.10	CW	JHK	DF	REVISED AS PER RFD C 100188
3	2010.04.23	CW	JHK	DF	ISSUED FOR CONSTRUCTION

ITEM	MATERIAL	PART #	DESCRIPTION	MTR #	LENGTH	QTY.
1	SA-105N	080268	FULL COUPLING 1/2" CL 3000			1
2	-	354588	U-BOLT, 2" C/W 4 NUTS			2
3	-	632761	WILLIAMS, CP8500V400, METHANOL PUMP			1



ISOMETRIC VIEW
SCALE 1:4

ORIGINAL

ISSUED FOR CONSTRUCTION

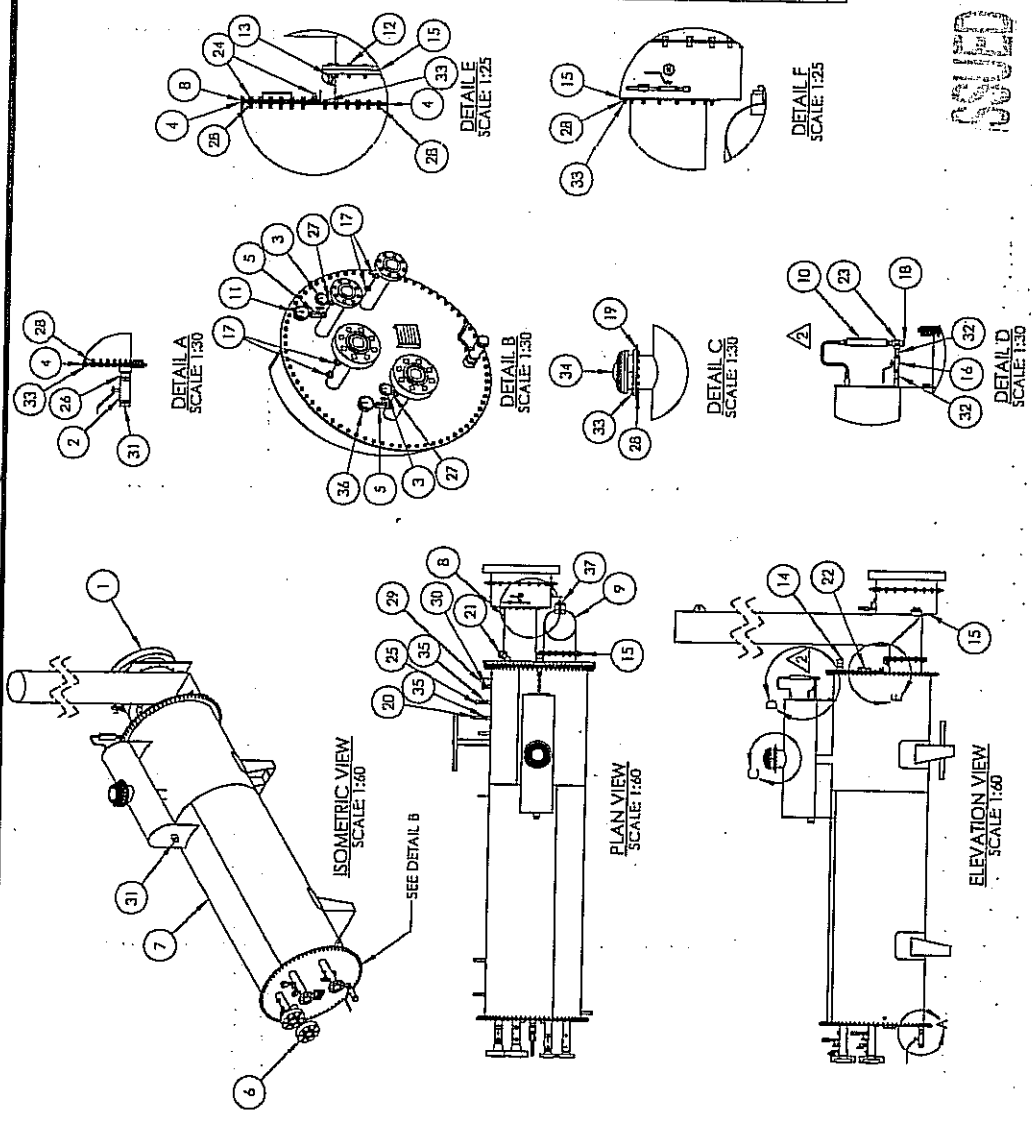
NMP INDUSTRIES INC.
- Total online supply -
P.O. BOX 4280, INNSFALL, AB T4G 1S9
PH: (403) 227-4100 FAX: (403) 227-4102

ENCANA CORPORATION
LINEHEATER AND METERING PACKAGE
1.25 MMBTU/HR, 48" OD x 180" S/S
(1) 3"-600 ANSI JR METER RUN
PIPING ASSEMBLIES

DWN: CW CHK: JHK APP: DF
DATE: 2010.04.23 (DATE: 2010.05.06) DATE: 2010.05.06
SCALE: 1:1.5
SHEET: 8 OF 8 DWG: 100864-2 REV: 2

THIS DRAWING IS PROPERTY OF NMP INDUSTRIES INC. AND MAY NOT BE REPRODUCED WITHOUT PERMISSION. THIS DRAWING MUST BE RETURNED UPON REQUEST.

ITEM	MATERIAL	PART #	DESCRIPTION	LENGTH	QTY
1	CS	082379	WENCO BURNER ASSEMBLY - SEE SHEET B		1
2	CS	304 SS	2" 3000 PSI NUTRON STD TRIM TO FP BALL VALVE		1
3	CS	100217	THERMOMETER TRENDS 3" DIA. X 1 1/2" STEM 0-250 DEGREES F. ADJUSTABLE HEAD		2
4	DURLON	100469	BARREL GASKET - 5.0" OD X .48" ID X 1/8" THK		2
5	SS	100785	AGSCO NEEDLE VALVE 1/2" M.F. NPT HI. 6000 PSI		2
6	-	100943	1.25 MM BITU LINERHEATER COIL / ENCANNA 3" SINGLE METERS PKG. 48' X 1.5"		1
7	-	100944	1.25 MM BITU LINERHEATER BATH / ENCANNA 3" SINGLE METERS PKG. 48' X 1.5"		1
8	-	100947	1.25 MM BITU LINERHEATER PREHEATER ENCANNA 3" SINGLE METERS PKG. 48' X 1.5"		1
9	-	100948	1.25 MM BITU LINERHEATER PREHEATER ENCANNA 3" SINGLE METERS PKG. 48' X 1.5"		1
10	-	101084	RATE GAUGE, RINCO 1/2" NPT MDL 3705-B-C-1RRL		1
11	SS	101221	PRESSURE INDICATOR CALORIMETER 4" FACE 1/2" NPT MDL 3705-B-C-1RRL		1
12	ASTM A325	101241	BOLT - 1/2" X 2 1/2"		16
13	ASTM A325	101244	BOLT - 1/2" X 2 1/2"		16
14	-	101409	LEVEL SWITCH ELECTRIC FOR 2" NPT MODEL 1510C-12A-C-1000-SS-CCV		1
15	DURLON	105655	LH GASKET - 16" FIRE TUBE STACK		2
16	CS	112056	1/2" 3000 PSI NUTRON TO STD TRIM FP BALL VALVE		1
17	SA-105	131991	1/2" CL 6000 THRD HEX PLUG		4
18	SA-105	131991	1/2" CL 6000 THRD HEX PLUG		4
19	DURLON	170964	THIEF HATCH BASE GASKET		1
20	-	271958	CCS TEMPERATURE SWITCH MODEL 6900TE		1
21	-	275955	PEEP SITE GLASS, 2" ZIRCO		1
22	ALUMINUM	293652	NAME PLATE BLACK/SILVER DEEP RICHED		1
23	SA-105	301604	1/2" CL 3000 THRD TEE		1
24	-	312733	BOLT - 1/2" DIA. X 2" LG		34
25	-	319294	TEMP. CONTROL KIMRAY HT-12		1
26	SA-1048	403922	2" X 3" SCH. 40/80 NIPPLE		1
27	304 SS	467701	THERMOWELL 1/2" X 1/2" X 2 1/2" STEM		2
28	GRADE-2	484536	HEX NUT 1/2" DIA.		174
29	304 SS	551697	THERMOMETER 3" DIA. TRENDS X 3" STEM 0-250 DEGREES F		1
30	304 SS	608681	1" X 1/2" X 6" .250 BORE THERMOWELL		1
31	SA-105N	637630	2" CL 6000 THRD HEX PLUG		2
32	SA-1048	640311	1/2" X 3" SCH. 40/80 NIPPLE		2
33	GRADE-2	698333	BOLT - 1/2" DIA. X 1 1/2" LG		140
34	ALUMINUM	732147	BIN ENARDO 330 THIEF HATCH		1
35	SS	809330	1" SS-1235 HCL. KIMRAY SEPARABLE SOCKET		2
36	SS	853933	PRESSURE INDICATOR HYDROPOISE 4" FACE 1/2" NPT MDL 10000		1
37	AL.	876585	4" - 1.50 PT THRD PLUG		1



ISSUED FOR CONSTRUCTION ORIGINAL
 SAVED FOR CONSTRUCTION ORIGINAL

 P.O. BOX 6260, INNSFALL, AB T4G 1S9 PH: (403) 227-4100 FAX: (403) 227-4102 THIS DRAWING IS PROPERTY OF NWP INDUSTRIES, INC. AND MAY NOT BE REPRODUCED WITHOUT PERMISSION. THIS DRAWING MUST BE RETURNED UPON REQUEST.		ENCANNA CORPORATION LINEHEATER AND METERING PACKAGE 1.25 MM BITU/HR. 48" OD X 180" S/S (1) 3"-600 ANSI JR METER RUN PIPING ASSEMBLIES DWN: CW CHK: JHK APP: DF DATE: 2010.04.23 DATE: 2010.05.06 DATE: 2010.05.06 SCALE: 1:50 SHEET: 7 OF 8 DWG: 10094-2 REV: 2																								
ISSUED FOR CONSTRUCTION SIGNED: DATE: <u>10/20/10</u> S.O. NO.: <u>1050</u> S.O. NO.: <u>200242</u> ALL DIMENSIONS IN INCHES	<table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>CHK</th> <th>APP</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>2010.07.13</td> <td>CW</td> <td>JHK</td> <td>DF</td> <td>REVISED AS PER RFDG #00223</td> </tr> <tr> <td>1</td> <td>2010.06.10</td> <td>CW</td> <td>JHK</td> <td>DF</td> <td>REVISED AS PER RFDG #00186</td> </tr> <tr> <td>0</td> <td>2010.04.23</td> <td>CW</td> <td>JHK</td> <td>DF</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> </tbody> </table>	REV	DATE	BY	CHK	APP	DESCRIPTION	2	2010.07.13	CW	JHK	DF	REVISED AS PER RFDG #00223	1	2010.06.10	CW	JHK	DF	REVISED AS PER RFDG #00186	0	2010.04.23	CW	JHK	DF	ISSUED FOR CONSTRUCTION	REFERENCE DRAWINGS
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