

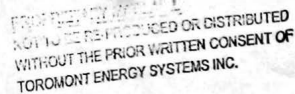
LOCATION:		LSD:	
UNIT No:	31257	Rev No.	3
DELIVERY DATE:		March 14, 2005	
PROJECT STAFF:		Kirk Dunn, Ben Santos, Vitali Sibirkin	
CUSTOMER CONTACT:		Brian Tomas	
Phone No:		(403) 232-0316	Fax No: (403) 234-0322
DRIVER:	Catapillar G3512TA	S/N:	7NJ01144
	Ignition System Model:	CAT Electronic Ignition System	
COMPRESSOR:	Gemini D604-3	S/N:	D348
	Cylinder Lube Rate:	17.7	USPPD at 33.6 Sec. /cycle
COOLER:	Make: Air-X-Changers	Model: 120EH	S/N: 044378
PANEL:	Make: Allen Bradley	Model: Compact Logix	S/N: 80280A ^{mp}

DESCRIPTION	THROW 1	THROW 2	THROW 3	THROW 4
STAGE	ONE	THREE	ONE	FOUR
BORE (IN.)	14.25	9.0	14.25	5.5
STROKE (IN.)	6.0	6.0	6.0	6.0
CLASS	95B	95	95B	95
MAWP (PSI)	800	1500	800	2200
VVCP YES/NO	YES	YES	YES	YES
ROD TYPE STD/TC.	STD	STD	STD	STD
DIST. PC. YES/NO	NO	NO	NO	NO
SERIAL NO.	95G1784	95G1785	95G1783	89G4483
PACKING SYSTEM	Standard/Purge Gas		Standard	
VALVE TAILOR				
SUCTION	2-01-55141	2-01-55141	2-01-55141	2-01-30388
MATERIAL	MT	MT	MT	MT
DISCHARGE	1-01-55142	2-01-55142	1-01-55142	2-01-30389
MATERIAL	MT	MT	MT	MT

DESCRIPTION	STAGE 1	STAGE 2	STAGE 3	
OD (IN.)	24	20	16	
LENGTH S/S (IN.)	72	66	60	
MAWP (PSI)	655	655	1315	
MDMT (DEG. F)	-20	-20	-20	
SERIAL NO.	31257-S1	31257-S2	31257-S3	

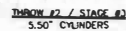
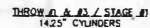
PULSATION BOTTLES - SUCTION / DISCHARGE (N/A Expanded Pipe Used)							
OD (IN.)	20	18	20	18	16	14	
LENGTH (IN.)	72	60	36	36	34	34	
MAWP(PSI)	655	645	655	1292	1315	1292	
MDMT (DEG. F)	-20	-20	-20	-20	-20	-20	
SERIAL NO							
PROVINCE(S) OF REGISTRATION	Yes/No	B.C.-	NO	AB-	YES	SASK-	NO

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AS BUILT

[illegible]

1	INLET SECTION	8"-3000 (NPT)	2	GLYCOL TANK DRAIN	2"-3000 (NPT)
3	PUMP DISCHARGE	2"-8000 (NPT)	4	WASTE OIL TANK DRAIN	2"-3000 (NPT)
5	HIGH PRESSURE VENT HEADER	4"-1500 (NPT)	6	GLYCOL STAND PIPE	2"-NPS
7	SUMMER DRAIN HEADER	2"-1500 OF SCRD	8	START GAS VENT HEADER	2"-NPS
9	PULL/START GAS PLET	2"-1500 OF SCRD	9	LOW PRESSURE INSTRUMENT VENT HEADER	1"-NPS
10	GLYCOL FILL	3/4" HOSE	10	LOW PRESSURE PUMP VENT HEADER	1"-NPS
11	CHARGER ON DAY TANK FILL	1"-3000 (NPT)	11	LOW COMPRESSOR ON FILL	2"-NPT
12	BRIGHT COMPRESSOR ON DAY TANK FILL	1"-3000 (NPT)	12	----	----

1				-	
2	AS BUILT			-	
3	REVISED FOR CUSTOMER REQUEST			03/18/09 US	
4				01/17/05 US	
5	ISSUED FOR APPROVAL			01/06/05 UK	
		REVISION			DATE BY
PROPERTY MATERIAL NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT THE PRIOR WRITTEN CONSENT OF TORONTO ENERGY SYSTEMS INC.					
TORONTO		ENERGY SYSTEMS	10121 - EARLTON FINAL R.E. CALGARY ALBERTA CANADA		
TITLE:		CUSTOMER:			
GENERAL MANAGEMENT		RESOLUTE ENERGY INC.			
CATALANES CATALAN/CLOM/DOWN-D-3		MALMO STREET GAS COMPRESSOR			
AIR-V-CHAMBERS 120X=89-18					
SCALE: 1/8" = 1'		DATE: 01/05/09	BY: LK	DATE RELEASED: 01/05/09	RELEASED BY: [Signature]
USER # NONE		DWG. # 21297	DRAWING NO. 21297-G	REV. 2	




THROW #4 / STAGE #2
9.00" CYLINDERS

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TORMONT ENERGY SYSTEMS INC.

1	DATE	BY	REVISION
2			
3			
4			
5			
6	ISSUED FOR CONSTRUCTION	05/28/03	10
7			
8	REVISION	DATE	BY
9			

PROPRIETARY MATERIAL. NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT THE PRIOR WRITTEN
 CONSENT OF TORCONTE ENGINEERING SYSTEMS.



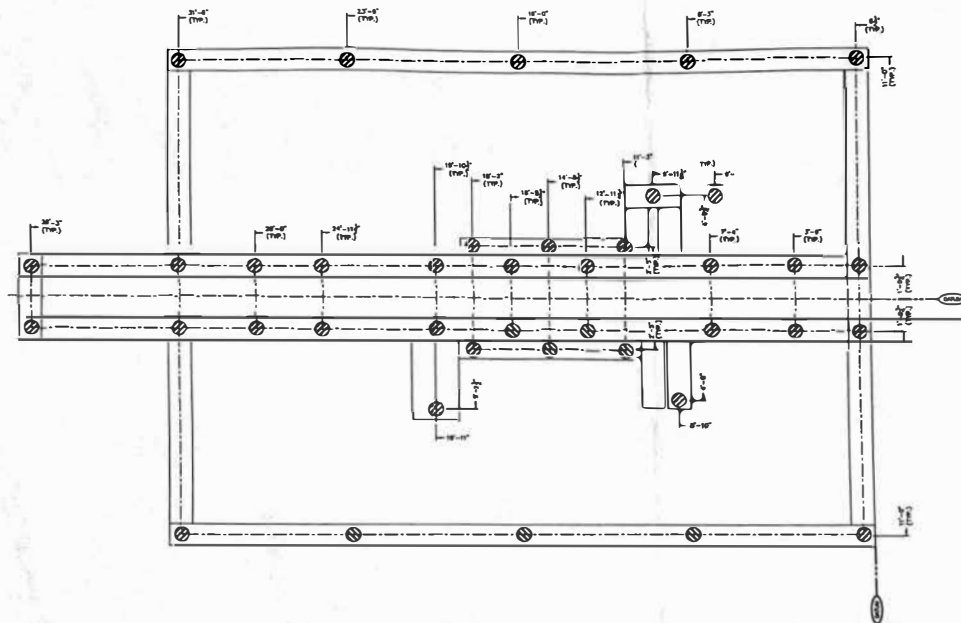
TORCONTE
 ENGINEERING SYSTEMS

1021 - BAYVIEW TRL N.E. CLARKY GLENN CARBON

<p>TITLE</p> <p>CLARKY GLENN CATHARTIC GASIFICATION SYSTEM-2 200-CHANGING 1000-88-18</p> <p>SCALE 1/2" = 1'-0" 02/24/03 18" = 1'-0"</p> <p>NO. 6 / N/A</p> <p>DATE # 2123</p>	<p>DESIGNER</p> <p>ROCKWELL ENGINEERING INC. 10000 WEST 10TH AVE. SUITE 100 DENVER, CO 80231</p> <p>DATE RECEIVED 5/26/03</p> <p>RECEIVED BY 6/1/03</p>
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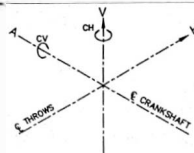


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COMPRESSOR UNBALANCED FORCES @ 1200 RPM

THROW #	1	2	3	4	5	6
CYLINDER BORE (IN.)	14.25"	5.5"	14.25"	9.0"	---	---
UNBALANCED SHAKING FORCES = MIL (ALL FRAMES)						
Description	Tag	F.L. lbs.				
PRIMARY VERTICAL COUPLE	CV1	4765				
PRIMARY HORIZONTAL COUPLE	CH1	30458				
SECONDARY VERTICAL COUPLE	CV2	0				
SECONDARY HORIZONTAL COUPLE	CH2	0				



TOROMONT ENERGY SYSTEMS

MAR 17 2005
AS BUILT

PER

MAJOR COMPONENT WEIGHTS

Description	Weight (lbs.)
COMPRESSOR FRAME:	7,050
ENGINE:	14,450
COOLER (DRY):	14,350
SUCTION SCRUBBER:	1,951
INTERSTAGE #1 SCRUBBER:	1,358
INTERSTAGE #2 SCRUBBER:	1,370
THROW #1 & 3 CYLINDER & BOTTLES:	13,188
THROW #2 CYLINDER & BOTTLES:	4,353
THROW #4 CYLINDER & BOTTLES:	5,936
SLINGER:	1,220
FLUIDS:	1,661
SKID BASE (w/o CONCRETE):	37,129
SKID BASE (w/ CONCRETE):	63,410
PIPING TOTAL:	8,870
INSTRUMENTATION/ELECTRICAL:	3,000
BUILDING:	7,800
MISC:	500
TOTAL PACKAGE: (5% SAFETY FACTOR)	157,800

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⊗ - SUPPORT POINT (NOT NECESSARILY A PILE LOCATION)

PLEASE READ CAREFULLY

1. INSTALLATION OF THIS SKIDDED COMPRESSOR PACKAGE IS THE RESPONSIBILITY OF THE OWNER.
2. ALL PILE CAPS MUST BE SHIMMED AND WELDED TO THE SKID WITH CONTINUOUS WELDMENTS USING GOOD WELDING PRACTICES. STITCH WELDING IS NOT ACCEPTABLE. TOROMONT ENERGY SYSTEMS INC. DOES NOT WARRANT VIBRATION ISSUES RELATING TO POOR PILE TO SKID CONNECTIONS, OR INSUFFICIENT PILE DESIGN.
3. PACKAGES INCORPORATING SEAL PANS (ORSP) IN THE WINGS WILL RESTRICT ACCESS TO SUPPORTS BELOW. IT MAY BE NECESSARY TO CUT THE SEAL PAN TO GAIN ACCESS TO THESE AREAS.
4. A REDUCING COMPRESSOR IS CAPABLE OF PRODUCING VERY HIGH HORIZONTAL COUPLES ABOUT THE CENTERLINE OF THE CRANKSHAFT. CAREFUL CONSIDERATION MUST BE GIVEN TO THE LOCATION OF SUPPORT BELOW THE CYLINDER CROSSHEAD AREA OF THE SKID. A SINGLE POINT OF SUPPORT BELOW EACH THROW IS NOT SUFFICIENT.
5. THIS DRAWING INDICATES THE MINIMUM RECOMMENDED NUMBER OF SUPPORT POINTS. THE ACTUAL NUMBER AND LOCATION REQUIRED MAY BE VARIOUS DEPENDING ON SOIL CONDITIONS, DEPTH OF REFUSAL, ETC.. TOROMONT ENERGY SYSTEMS DOES NOT AND CANNOT WARRANT THIS SUGGESTED DESIGN AND IT IS STRONGLY RECOMMENDED THAT A CIVIL ENGINEER FAMILIAR WITH PACKAGED COMPRESSORS BE CONSULTED TO DESIGN THE FOUNDATION FOR THIS COMPRESSOR PACKAGE.

REVISION	DATE	BY
0	ISSUED FOR REFERENCE	06/07/05 VS
1	REVISION	DATE BY
PROPRIETARY MATERIAL, NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT THE PRIOR WRITTEN CONSENT OF TOROMONT ENERGY SYSTEMS.		
TOROMONT ENERGY SYSTEMS 10121 - BAYVIEW TRAIL N.E., CALGARY, ALBERTA, CANADA		
TITLE: RECOMMENDED PILE LOCATIONS		DATE: 06/07/05 VS
CATORILLAR C25121A/0604-3		DATE: 06/07/05 VS
AR-3-NEWPALL 12001-06-18		DATE: 06/07/05 VS
SCALE: 1/2"=1'-0"		DATE: 06/07/05 VS
STEP: N/A		DATE: 06/07/05 VS
UNIT: 31257		DATE: 06/07/05 VS
DRAWING NO.: 21557-PLE		DATE: 06/07/05 VS