

LOCATION:	BORDER ACID GAS COMPRESSOR	LSD:	d-49-B/94-H-16
UNIT No:	696		
DELIVERY DATE:	NOV 6/97		
PROJECT STAFF:	DAMIAN SAUNDERS, RICK KALIVODA, DEAN WALLACE		
CUSTOMER CONTACT:	Company: CANADIAN HUNTER EXPLORATION LTD.		
RICK CRUMP	Phone No: 260-1855	Fax No:	260-1149
DRIVER:	WESTINGHOUSE 250HP TEFC ELEC.	S/N:	EG.C65G16-2
COMPRESSOR:	EI A354-4	S/N:	32F1053
	Cylinder Lube Cycle Time:	43.8 SECONDS	
	Cylinder Lube Rate:	11.10 PPD	
COOLER:	AIR-X-CHANGERS	Model: 72AEH	S/N: 974696
PANEL:	Spartan Controls	Model: MICROGAURD	S/N: M-3862

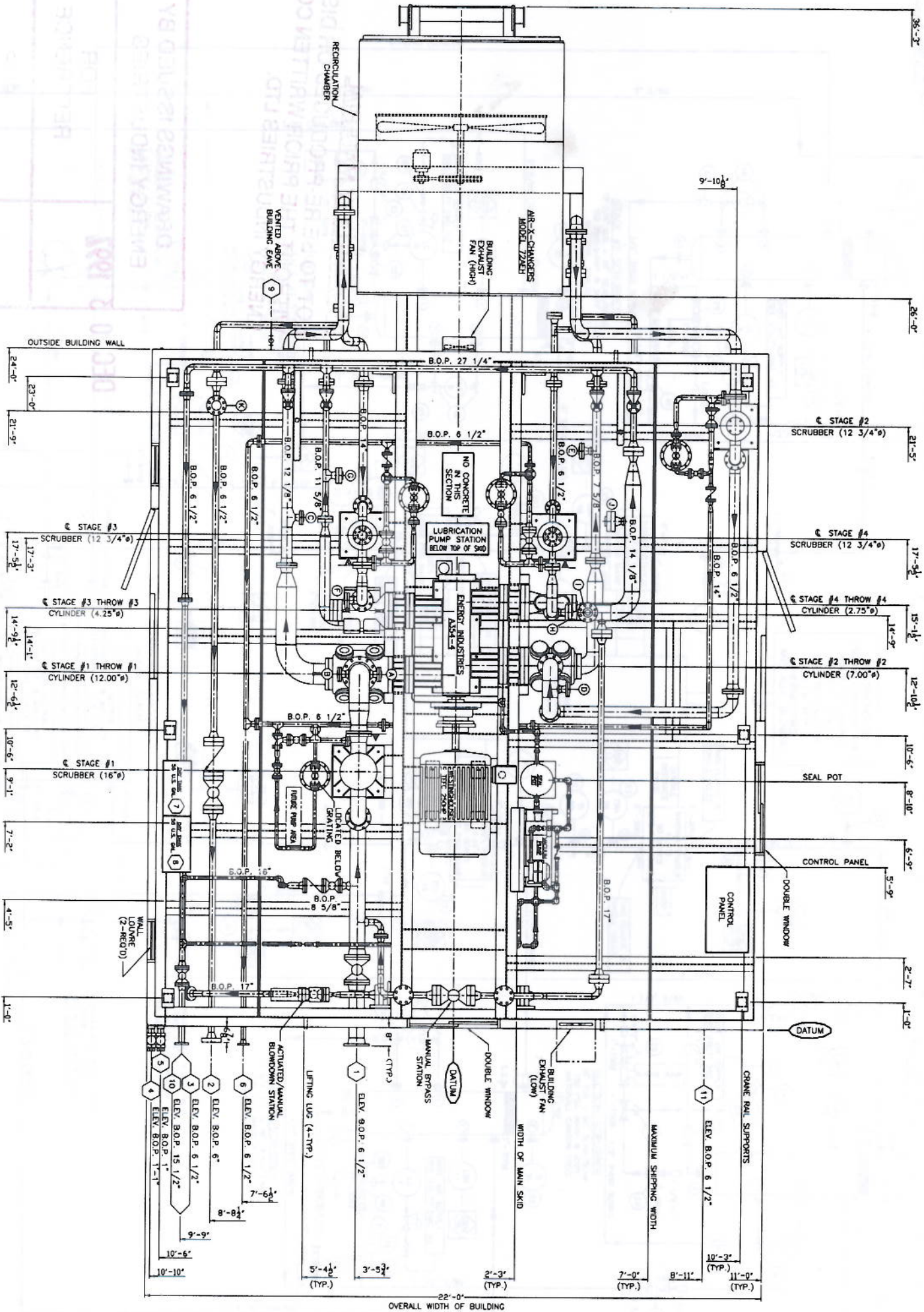
DESCRIPTION	THROW 1	THROW 2	THROW 3	THROW 4
STAGE	1	2	3	4
BORE (IN.)	12.00	7.00	4.25	2.75
STROKE (IN.)	3.50	3.50	3.50	3.50
SERIES	90	90	90	90
MAWP (PSI)	275	840	1850	2500
VVCP YES/NO	YES	NO	NO	NO
DIST. PC. YES/NO	YES	YES	YES	YES
SERIAL NO.	90C1002	90C1003	90C1004	90C1005

VALVE TAILOR				
SUCTION	1-05-55125	2-05-30375	2-05-20275	13-05-05020
MATERIAL	THERMO	THERMO	THERMO	THERMO
DISCHARGE	2-05-55126	2-05-30376	3-05-20276	15-05-05021
MATERIAL	PEEK	PEEK	PEEK	PEEK

DESCRIPTION	STAGE 1	STAGE 2	STAGE 3	STAGE 4
SCRUBBERS				
DIAM. (IN.)	14.00	12.75	12.75	12.75
LENGTH (IN.)	54	48	48	48
MAWP (PSI)	150	150	230	655
MIDMT (DEG. F)	300	300	300	300
SERIAL NO.	696S1	97-3302F-1	97-3303F-1	97-3304F-1
PULSATION BOTTLES - SUCTION / DISCHARGE				
EXPANDED PIPE BOTTLES ONLY				
DIAM. (IN.)				
LENGTH (IN.)				
MAWP (PSI)				
MIDMT (DEG. F)				
SERIAL NO.				

CONNECTION CHART		
ITEM	DESCRIPTION	SIZE
A	PRESSURE SHUTDOWN (LOW) PSOL STAGE #1	2"-150# RF
B	PRESSURE INDICATION CONNECTION STAGE #1 SUCTON	2"-150# RF
C	PRESSURE SHUTDOWN (HIGH) PSOL STAGE #1	2"-150# RF
D	PRESSURE INDICATION CONNECTION STAGE #2 SUCTON	2"-150# RF
E	PRESSURE SHUTDOWN (HIGH) PSOL STAGE #2	2"-300# RF
F	PRESSURE INDICATION CONNECTION STAGE #3 SUCTON	2"-300# RF
G	PRESSURE SHUTDOWN (HIGH) PSOL STAGE #3	2"-600# RF
H	PRESSURE INDICATION CONNECTION STAGE #4 SUCTON	2"-600# RF
I	TEMPERATURE INDICATION CONNECTION STAGE #4 DISCH.	2"-900# RF
J	PRESSURE SHUTDOWN (HIGH) PSOL STAGE #4	2"-900# RF
K	TEMPERATURE INDICATION CONNECTION FINAL DISCHARGE	2"-900# RF

TEMPERATURE INDICATION AND TEMPERATURE SHUTDOWN CONNECTIONS FOR STAGES #1, #2, #3, #4 NOT SHOWN ARE HIDDEN FROM VIEW.



PLAN

CUSTOMER CONNECTIONS

- | | | | | | |
|---|-------------------------------------|-------------------|----|-------------------------------------|---------------|
| 1 | INITIAL SUCTON (C.S.) | 6"-150# RF/VN | 9 | LOW PRESSURE INSTRUMENT VENT HEADER | 1/2" TUBING |
| 2 | FINAL DISCHARGE (C.S.) | 2"-300# RF/VN | 10 | SWEET RIDGE GAS SUPPLY (C.S.) | 2"-150# RF/VN |
| 3 | HIGH PRESSURE VENT HEADER (C.S.) | 2"-150# RF/VN | 11 | INSTRUMENT AIR SUPPLY | 1/2"-300# NPT |
| 4 | WASTE OIL TANK DRAIN | 2"-300# NPT | | | |
| 5 | CONTAMINATED OIL DRAIN | 2"-300# NPT | | | |
| 6 | SCRUBBER DRAIN (C.S.) | 1 1/2"-150# RF/VN | | | |
| 7 | CYLINDER LUBE OIL FILL CONNECTION | 2"-300# (NPT) | | | |
| 8 | COMPRESSOR LUBE OIL FILL CONNECTION | 2"-300# (NPT) | | | |

NOTES:

- SPACER PLATES ARE PROVIDED FOR FUTURE INSTALLATION OF OFFICE PLATES (IF REQUIRED).
- CARBON STEEL VESSEL & PIPE HAVE 1/8" C.A.
- ALL STAINLESS STEEL VESSELS & PIPE HAVE 1/16" C.A.
- BOLTING ON ALL CARBON STEEL PROCESS FLANGE CONNECTIONS TO BE SA-193-87M STUDS 1/4"-2 1/2" NUTS AND 3/16" STRESS CASSETS TO BE SA-193-87M STUDS 1/4"-2 1/2" NUTS AND 3/16" STRESS CASSETS.
- ALL FLANGES ARE RF/VN UNLESS OTHERWISE NOTED.
- BUILDING IS TO BE SUPPLIED BY CUSTOMER.
- RECOMMENDED BUILDING DOME HEIGHT - 12'-0" CABLE RATIO = 3:1.
- BUILDING 6"x 2'-0" MANUAL BRIDGE CRANE.
- UNIT WEIGHT - 80,000 lbs. (ESTIMATED)
- CUSTOMER TO SUPPLY HEATERS IN FIELD.

CYLINDER	VENT CLOSED/END OF CYLINDER	WCP FULLY OPEN	PISTON & ROD REMOVAL DISTANCE
STAGE #1 CYLINDER	5'-1 3/4"	5'-8 5/8"	6'-9 9/16"
STAGE #2 CYLINDER	4'-5 1/16"	N/A	6'-2 3/8"
STAGE #3 CYLINDER	4'-5 9/32"	N/A	7'-2 1/16"
STAGE #4 CYLINDER	4'-5 11/16"	N/A	7'-0 15/16"

NO.	REVISION	DATE	BY
1	AS BUILT	12-03-97	DMG
2	REVIEW BY CUSTOMER ISSUED FOR CONSTRUCTION	97-09-19	DM
3	ISSUED FOR APPROVAL	97-09-15	DM

ENERGY INDUSTRIES

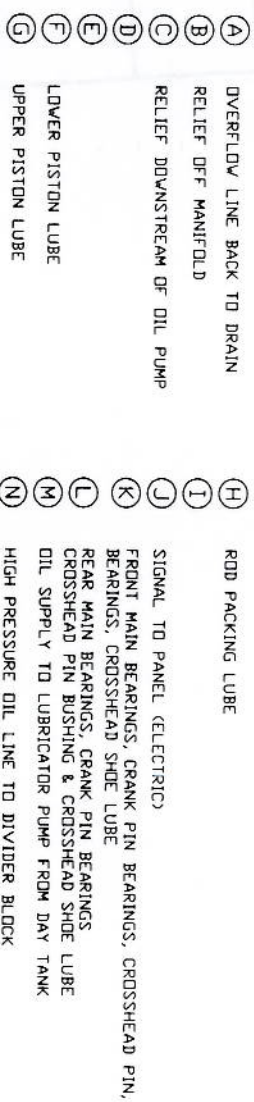
4303 - 11TH STREET N.E. CALGARY ALBERTA CANADA

TITLE: GENERAL ARRANGEMENT

WESTINGHOUSE 250HP/7354-4
AIR-X-CHANGERS 724GH

CANADIAN HUNTER EXPLORATION LTD.
BORER AND GAS COMPRESSOR
LSO: 0-49-B/94-H-16

SCALE: 1/2"=1' DATE: 97-08-13 BY: DM DATE RELEASED: 97-09-15
STEP # 0 UNIT # 696 DRAWING NO.: 696-3 REV: 2



NOTE:

1. DESIGN CYCLE TIME IS 43.78 SECONDS.
2. DESIGN OIL FLOW RATE IS 11.10 US P.P.D.
3. ALL TUBING TO BE 304SS C/W SWAGelok FITTINGS.

TITLE:		CUSTOMER:	
LUBE OIL FLOW DIAGRAM A354-4 COMPRESSOR		CANADIAN HUNTER EXPLORATION LTD BORDER ACID GAS COMPRESSOR LSD: d-49-B/94-H-16	
SCALE: NONE	DATE: 12/03/97	BY: GWG	DATE RELEASED BY: <i>GWG</i>
STEP #511	UNIT #596	DRAWING NO: 596-A5	REV: 0