

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
	V-2210	1	GLYCOL CONTACTOR: 24" O.D. x 28'-0" s/s, 1415 PSIG D.P. @ -40/150°F, 1/8" C.A., c/w (8) BUBBLE CAP TRAYS @ 24" SPACING, 7'-6" x 3-PHASE INTEGRAL SCRUBBER			9320	9,320								D-2004-7269-01-001
	5	1	ADDITIONAL B-OF-M FOR V-2210 HOOK-UP			44	44								B-2004-7269-01H-001
	H-2257	1	GLYCOL RECONCENTRATOR: 30" O.D. x 7'-11" LG. REBOILER, 24" O.D. x 6'-2"			3310	3,310								D-2004-7269-05-001
	V-2258	1	LG. SURGE TANK, 10 3/4" O.D. FIRETUBE, 10 3/4" O.D. x 14'-0" HIGH STACK, 12 3/4" O.D. x 10'-0" HIGH STILL COLUMN, 8 5/8" O.D. x 3'-4" LG. STRIPPING COLUMN												B-2004-7269-05-001
		1	ZIRCO HINGED LEFT FLAME ARRESTOR: #16-10/2; 375,000 BTU/HR, w/ 10 3/4" O.D. FIREBOX CONNECTION, CONFIGURED w/ (12) 5/8" DIA. HOLES ON 12 7/8" B.C.D., 1"-NPT CONN. FOR NAGY IGNITION SYSTEM @ 12:00, 1"-NPT GAS CONN. @ 9:00, 1/4"-NPT PILOT CONN. @ 9:00			150	150								
	V-2200	1	HORIZONTAL INLINE CYCLONE SEPARATOR: 8 5/8" O.D. x 6'-1 5/8" F/F x 1/8" C.A.			500	500								D-2004-7269-09-001
1	18	1	ADDITIONAL B-OF-M FOR V-2200 HOOK-UP			50	50								B-2004-7269-09H-001
	E-2220	1	GAS/GLYCOL EXCHANGER: 4 1/2" O.D. x 6 5/8" O.D. x 10'-0" LG., T.S.: 1415 PSIG D.P. @ -20/150°F + 1/8" C.A. S.S.: 1415 PSIG D.P. @ -20/250°F + 1/8" C.A.			440	440								B-2004-7269-02-001
	V-2260	1	FUEL GAS SCRUBBER: 10 3/4" O.D. x 2'-5" LG., 150 PSIG D.P. @ -20/150°F			115	115								(USE STOCK 7157-02)
	HLSD-2260		c/w ALCO STD. INTERNAL HIGH LEVEL SHUTDOWN												
	V-2270	1	GLYCOL FLASH TANK: 12 3/4" O.D. x 5'-0" s/s; 250 PSIG @ -20/250°F; 1/8" C.A.; 2-PHASE VERTICAL			450	450								B-2004-7269-07-001
	V-2215	1	GLYCOL LEVEL CAGE: 4"-600#RF x 2'-0" s/s, 1415 PSIG D.P. @ -20/150°F + 1/8" C.A. (5) CONNECTIONS			85	85								C-2004-7269-06-001
	P-2250	2	MORGAN #HD312-3K-TR2 CHEMICAL INJECTION PUMP:			75	150								
	P-2255		15 GPD MAX. RATE, 3000 PSIG MAX. INJECTION PRESSURE, STD MAT'L'S												
	FL-2280	1	3/4" NPT CUNO CT-102 LOW PRESSURE PARTICULATE FILTER, 250 PSIG @ 250°F, (2) 25 MICRON FILTER CARTRIDGES, CI BODY, S.S. CONSTRUCTION			10	10								
	FL-2281	1	3/4" NPT CUNO CT-102 LOW PRESSURE CHARCOAL FILTER, 250 PSIG @ 250°F, (2) CN028098-H CHARCOAL ELEMENTS, S.S. CONSTRUCTION			10	10								
			ESTIMATED SHIPPING WEIGHT:	36,330 Lbs.			14,634								
NOTES: *** SEE NOTE COLUMN FOR APPLICATION NUMBERS *** 1. MATERIAL TEST REPORTS ARE REQUIRED.					BY:	RKL		ALCO GAS & OIL PRODUCTION EQUIPMENT LTD. BILL OF MATERIALS SOUR GLYCOL DEHYDRATION UNIT - 24" O.D. CONTACTOR w/ 375,000 BTU/HR. REBOILER CUSTOMER: DEVON CANADA CORP. C/O ASHER ENGINEERING LTD. LOCATION: SEPTIMUS COMP. STATION L.S.D.: 9-36-81-19 W6M DWG/SHOP ORDER: B-2004-7269-50B-001/010 REV. 1							
					DATE:	Oct. 4, 2004									
					CHK'D	KEW									
					CHK'D										
					APP'D:										
BOM_Hookup.xlt (rev.1d)					NOTE: ONE (1) UNIT REQUIRED.										

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3	FSLL-2240	1	3/4" MNPT KAYDEN 810RAD0012C1B0A1E FLOW SWITCH; 1.2" U-LENGTH, 24VDC; DUAL SPDT CONTACTS; CL.I DIV.1, XP; STD MATERIALS			5	5								MR'D 7269-50-04
2	DPIT-2211/12	2	ROSEMOUNT 3095FB2DB0013AA10NCNS5 MUTI-VARIABLE TRANSMITTER:			40	80								
	PIT-2211/12		24 VDC, 4-20 mA OUTPUT, MODBUS PROTOCOL, CALIBRATE 0-250" W.C. (DIFF.),												
	TIT-2211/12		0-2000 PSIG (GAUGE), 0-150°F (TEMP), CL.1 DIV. I, CSA-APPROVAL c/w												
	TE-2211/12		#0305RC52B11SGB1 5-VALVE MANIFOLD, 316SS CONSTRUCTION, NACE SERVICE MOUNTING BRACKET												
	LC-2200	1	4"-600# ANSI RF LINC 282-21-10-05 SNAP-ACTING LEVEL SWITCH: 30 PSIG OUTPUT, MANUAL OVERRIDE, NACE MATERIALS			5	5								MR'D 7269-50-02
	LC-2210	1	4"-600# ANSI RF FISHER L2 SNAP ACTING LIQUID LEVEL CONTROLLER; 6000 PSIG MWP; DIRECT 0-35 PSIG OUTPUT; 1 7/8" x 12' LG. VERTICAL PVC DISPLACER; -20/175°F; SOUR SERVICE; SWEET I/G			35	35								
	LC-2215	1	4"-600# ANSI RF FISHER L2 THROTTLING LIQUID LEVEL CONTROLLER, 6-30 PSIG DIRECT PROPORTIONAL OUTPUT, c/w 1 7/8" x 12" LG HORIZONTAL PVC DISPLACER, -20/175°F, SOUR SERVICE, SWEET I/G			35	35								
	LC-2270	1	4"-150# ANSI RF FISHER L2 THROTTLING LIQUID LEVEL CONTROLLER, 6-30 PSIG DIRECT PROPORTIONAL OUTPUT, c/w 1 7/8" x 12" LG VERTICAL PVC DISPLACER, -20/175°F, SOUR SERVICE, SWEET I/G			35	35								
1	LC-2260	1	2"-NPT LINC 282-21-10 LEVEL SWITCH: 30 PSIG DIRECT OUTPUT, MANUAL OVERRIDE, NACE MATERIALS			35	35								
	LV-2215	1	1"-600# ANSI RF FISHER 667-D-30 CONTROL VALVE AND ACTUATOR: MICRO-FLUTE TRIM (ONE 1/4" FLUTE), FAIL CLOSED, BENCHSET AT 6-30 PSIG FOR 1480 PSIG SHUTOFF, NACE MATERIALS			123	123								
	LV-2270	1	1" NPT FISHER D4 CONTROL VALVE AND ACTUATOR: 3/8" DIA. PORT, FAIL CLOSED, FLOW UP, 6-30 PSIG BENCHSET, 250 PSIG SHUTOFF REQ'D, NACE MATERIALS			17	17								
	LV-2200	3	1" NPT FISHER D2 CONTROL VALVE AND ACTUATOR: 1/4" DIA. PORT, FAIL CLOSED, BENCH SET AT 0-30 PSIG FOR 3750 PSIG SHUTOFF, NACE SERVICE, SWEET I/G			17	51								
	LV-2210														
	LV-2260														
			TOTAL PAGE WEIGHT (Lbs.):				421								
NOTES: 1. MATERIAL TEST REPORTS ARE REQUIRED.						BY:	RKL	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. BILL OF MATERIALS SOUR GLYCOL DEHYDRATION UNIT - 24" O.D. CONTACTOR w/ 375,000 BTU/HR. REBOILER CUSTOMER: DEVON CANADA CORP. C/O ASHER ENGINEERING LTD. LOCATION: SEPTIMUS COMP. STATION							
						DATE:	Oct. 4, 2004								
						CHK'D	KEW								
						CHK'D	JM								
						APP'D:									
						L.S.D.: 9-36-81-19 W6M		DWG/SHOP ORDER:		B-2004-7269-50B-003/010		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
	LG-2200	4	PENBERTHY 1RM4 NACE REFLEX LEVEL GAUGE, 2725 PSIG @ 100°F;			8	32								
	LG-2210		6 3/4" VISIBLE LENGTH, NACE SERVICE												
	LG-2215														
	LG-2270														
	LG-2258	1	5/8" TUBULAR RED-LINE GAUGE GLASS ASSEMBLY; STD MAT'LS			2	2								
	153	4	(2) 3/4" NPT PENBERTHY 330J-NQ GAUGE COCKS: 4000 PSIG @ 100°F;			3	12								
			NACE SERVICE (FOR LG-2200, LG-2210, LG-2215 & LG-2270)												
	156	1	(2) 1/2" NPT PENBERTHY N7A GAUGE COCKS: 200 PSIG @ 100°F;			3	3								
			MALLABLE IRON MATL'S (FOR LG-2258)												
	LSLL-2258	1	2" NPT LINC L471-41 ELECTRIC LEVEL SWITCH: 1500 PSIG			2	2								
			MWP, -40/400°F, S.S. BODY, 24VDC, X.P., CLASS I DIV I, CSA APPROVED,												
			NACE MATERIALS												
1	LSHH-2210	1	1-1/2" NPT LINC MODEL L471-21 LEVEL SWITCH; 1500 PSIG MWP;												MR'D 7269-50-04
			MANUAL OVERRIDE; -40/400°F; S.S. BODY; 24VDC; CL.I DIV.1 XP;												
			SOUR SERVICE; NACE MATERIALS												
	PC-2211	1	FISHER 4150 K PRESSURE CONTROLLER: 0-1500 PSIG, K-MONEL			5	5								
			BOURDON TUBE, 6-30 PSIG DIRECT PROPORTIONAL OUTPUT,												
			SET @ 1150 PSIG, YOKE MOUNTING HARDWARE FOR 667-45 ACTUATOR,												
			NACE PROCESS												
	PV-2211	1	3"-600# RF FISHER 667-ET-45 PRESSURE CONTROL VALVE & ACTUATOR,			218	218								
			3-7/16" DIA. PORT, EQUAL PERCENTAGE TRIM, FAIL CLOSED, BENCH SET @												
			6-30 PSIG FOR 1480 PSIG SHUTOFF, NACE MATERIALS												
	PCV-2257	1	1" NPT FISHER 627 REGULATOR; CAST STEEL BODY w/ SS TRIM,			5	5								
			5-20 PSIG OUTLET PRESSURE RANGE, SET @ 15 PSIG, 3/8" DIA PORT,												
			SWEET SERVICE												
	PCV-2259	1	1/4" NPT FISHER 912 REGULATOR, 0.5 - 2.7 PSIG, STANDARD MATERIALS			2	2								
	PCV-2270	1	1" NPT FISHER 630R RELIEF VALVE: 30-70 PSIG SPRING RANGE,			10	10								
			SET @ 50 PSIG, 1/2" DIA. 316 SS ORIFICE, STEEL BODY, SOUR TRIM												
	PD-2240	2	OILAIR B1-100-1 ACCUMULATOR: 1"-FNPT CONNECTION, 1 GALLON VOLUME,			10	20								
	PD-2241		BLADDER MATL'S TO BE SUITABLE FOR SOUR SERVICE												
	189	1	OILAIR BCG-3000 CHARGE KIT			2	2								
			TOTAL PAGE WEIGHT (Lbs.):				313								
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						DATE:	Oct. 4, 2004								
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						APP'D:									
						BILL OF MATERIALS									
						SOUR GLYCOL DEHYDRATION UNIT - 24" O.D. CONTACTOR w/ 375,000 BTU/HR. REBOILER									
						CUSTOMER: DEVON CANADA CORP. C/O ASHER ENGINEERING LTD.					LOCATION: SEPTIMUS COMP. STATION				
						L.S.D.: 9-36-81-19 W6M					DWG/SHOP ORDER: B-2004-7269-50B-004/010				
											REV. 1				

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	PCV-67	8	1/4" NPT FISHER 67 CFR REGULATOR: 5-35 PSIG SPRING RANGE, SWEET SERVICE			1.5	12								
	PCV-2250	2	1/4" NPT FISHER 67 CFR REGULATOR: 0-125 PSIG SPRING RANGE, STD MATL'S			1.5	3								
	PCV-2255														
	PSV-2210	1	1 1/2"-600# RF INLET x 2"-150# RF OUTLET TAYLOR 8200 RELIEF VALVE: 0.357 sq.in. "F" ORIFICE, SET @ 1415 PSIG, NACE PRIMARY ZONE (GAS SERVICE)			50	50								
	PSV-2240	2	1" MNPT x 1" FNPT TAYLOR 8200 RELIEF VALVE: 0.128 sq.in. ORIFICE, SET @ 1415 PSIG, NACE ZONE (LIQUID TRIM)			11	22								
	PSV-2241														
	PSV-2259	1	1" MNPT x 1" FNPT TAYLOR 8200 RELIEF VALVE: 0.128 sq.in. ORIFICE, SET @ 150 PSIG PRESSURE, STD MATL'S (GAS SERVICE)			11	11								
	PSV-2270	1	1" MNPT x 1" FNPT TAYLOR 8200 RELIEF VALVE: 0.212 sq.in. ORIFICE, SET @ 250 PSIG PRESSURE, NACE PRIMARY ZONE (GAS SERVICE)			11	11								
	PSV-2280	1	1" MNPT x 1" FNPT TAYLOR 8200 RELIEF VALVE: 0.128 sq.in. ORIFICE, SET @ 35 PSIG PRESSURE, NACE PRIMARY ZONE (LIQUID SERVICE)			11	11								
	PSV-2257	1	2" MNPT x 2" FNPT WELLMARK MODEL# W1392 V-4 RELIEF VALVE: SET @ 3 PSIG PRESSURE (MAX. TEMP = 400°F)			4.5	5								
	PSV-2250	2	1/4" MNPT x 1/4" FNPT NUPRO SS-4R3A5 RELIEF VALVE: SET @ 1415 PSIG PRESSURE (LIQUID SERVICE)			1	2								
	PI-2270	1	WIKA 233.54 PRESSURE GAUGE, 4" DIAL, 1/2" NPT LOWER MOUNT, LIQUID FILLED, 0-250 PSIG PRESSURE RANGE, SOUR SERVICE			1.5	2								
	PI-2259	1	WIKA 233.54 PRESSURE GAUGE, 4" DIAL, 1/2" NPT LOWER MOUNT, LIQUID FILLED, 0-160 PSIG PRESSURE RANGE, SOUR SERVICE			1.5	2								
	PI-2210	3	WIKA 233.54 PRESSURE GAUGE, 4" DIAL, 1/2" NPT LOWER MOUNT, LIQUID FILLED, 0-1500 PSIG PRESSURE RANGE, SOUR SERVICE			1.5	5								
	PI-2240														
	PI-2241														
	PI-2250	2	WIKA 111.10 PRESSURE GAUGE, 2 1/2" DIAL, 1/4" NPT CENTER BACK MOUNT, DRY FILLED, 0-160 PSIG PRESSURE RANGE, DUAL SCALE, STD MATL			1.5	3								
	PI-2255														
	PI-2257	2	WIKA 111.10 PRESSURE GAUGE, 2 1/2" DIAL, 1/4" NPT LOWER MOUNT, DRY FILLED, 0-30 PSIG PRESSURE RANGE, DUAL SCALE, STD MATL			1.5	3								
	PI-2259														
			TOTAL PAGE WEIGHT (Lbs.):				140								
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