

## BILL OF MATERIALS

**COMPANY NAME: GRAND CACHE COAL CO.  
PMS JOB NO.:35452**

SERIAL NUMBER JM4746	MODEL NUMBER 12CM12-BX
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MSHA APPROVAL NUMBER 2G-3334A-02	STE NUMBER 5005178	VOLTAGE 950 VOLT
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QTY	PART NUMBER	DESCRIPTION	REFERENCE DRAWING	SH NO
		<b>GENERAL GROUP</b>		
		CAUTION STATEMENT	IL000046 0000	01
		GENERAL ARRANGEMENT MACHINE 12CM12	JCM00706 0177	01
		GREASE SPECIFICATION CHART	SK025318 0000	01
		HYDRAULIC OIL SPECIFICATION CHART	SK025318 0001	01
		TRANSMISSION OIL SPECIFICATION CHART	SK025318 0002	01-02
		VALVES, TORQUE, CAP SCREWS	SK024122 0000	01
		INSTALLATION INSTRUCTIONS FRO CATERPILLAR SEALS	SK021855 0000	01
		PRECAUTIONS FOR USERS OF JOY CHAIN PRODUCTS	SK064073 0000	01
		BIT INFO FOR VARIOUS JOY MINERS	SK024544 0001	01
		LIFTING & BLOCKING DIAGRAM	JCM00832 0006	01-02
		LIST, TRAILING CABLE, APPROVED (12CM) (950v)	SK025502 0004	01
		<b>ELECTRICAL GROUP</b>		
1	WD003593 0310	DIAGRAM, WIRING ELEMENTARY	WD003593 0310	01
1	WD003593 0311	DIAGRAM, WIRING SCHEMATIC (950 VOLT)	WD003593 0311	01
1	CL003593 0311	LIST, CABLE AND CONDUIT	CL003593 0311	01
1	25002060 0000	TERMINAL STRIP (35451B)	25002060 0000	01
1	SK025273 0002	CRIMP-ON CONNECTORS AND TOOLING	SK025273 0002	01
1	SK024404 0000	CONTROL WIRE SPLICES	SK 024404 0000	01
1	00700016 1171	EQUIPMENT, ELECTRICAL	JCM00773 0167	01-02
1	SK020775 0000	CABLE GLAND ACCESSORIES	SK020775 0000	01-02
1	00571631 0010	CONNECTION BOX ASSEMBLY	00571631 0010	01
1	SK024299 0023	DUAL 6SCR SYSTEM 2 TROUBLESHOOTING CHART	SK 024299 0023	01
1	00500184 4134	CONTROLLER	00500184 4134	01

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<b>ELECTRICAL GROUP CONTINUED</b>				
1	00500523 2598	PANEL, CONTROL	00500523 2598	01
1	00500184 4153	CONTROLLER (TRACTION)	00500184 4153	01
1	00500523 1999	PANEL, CONTROL	00500523 1999	01
1	00601525 0000	200 AMP DC CONTACTOR	00601525 0000	01-02
1	00500523 2602	PANEL, CONTROL	00500523 2602	01
1	00720093 0009	DIAGNOSTICS, TRACTION	SK025013 0482	01
1	00720170 0018	INDICATOR, LIGHT, OIL, HYDRAULIC LOW	SK025438 0016	01
1	00500524 0191	CONTROL STATION	00500524 0189	01
1	00600128 1574	JOY 20B350J2 MOTOR	00600128 1574	01
1	00600128 0623	JOY 8CB350J MOTOR	00600128 0623	01
1	00600361 0195	JOY 9DB280J MOTOR	00600361 0195	01
2	88001100 0000	TRACTION MOTOR – TECO		
1	SK025063 0004	REPAIR PARTS FOR AXIVANE FANS MODEL FP-21 (500792-797/798)	SK025063 0004	01
1	00600430 0022	RELIANCE MOTOR (286TCZ FRAME)	00600430 0022	01
1	00720066 0155	CONTROL, REMOTE	SK025431 0146	01
1	00500183 0523	CONTROL BOX	00500183 0523	01
1	00500523 1935	RESISTOR PANEL ASSEMBLY	00500523 1935	01
1	00570452 0101	CABLE ASSEMBLY	00570452 0100	01
1	00570452 0020	CABLE ASSEMBLY	00570452 0020	01
1	00570452 0051	CABLE ASSEMBLY	00570452 0051	01
1	00570452 0060	CABLE ASSEMBLY	00570452 0057	01
1	00570452 0121	CABLE	005704520121	
1	25002054 0000	PARTS REQ'D TO CONVERT TONE S.D.R.C. TO RADIO S.D.R.C.	SK025221 0254	01
1	00570452 0059	CABLE ASSEMBLY	00570452 0051	01
1	SK024299 0021	REMOTE CONTROL TROUBLESHOOTING CHART	SK024299 0021	01
1	00720118 0018	SUPPRESSION, FIRE, BACK-UP, BATTERY	SK025451 0018	01-02
1	ED001005 0000	PARTS & WIRING REQ'D TO EQUIP. 12CM, 12HM WITH S800 GENERAL METHANE MONITOR	ED001005 0000	01
1	00720006 0029	AMMETER CUTTER (2) CONVEYOR (2)	SK025425 0028	01-02
1	00720165 0221	ILLUMINATION, LIGHTING FACE (MCI) STE 5005178	SK025436 0246	01
1	25002061 0000	ELECTRICAL PARTS REQ'D TO EQUIP 12CM/12HM12 WITH TRACTION BRAKES	25002061 0000	01
1	00720112 0050	COLLECTOR, DUST, ELECTRICAL	SK025429 0043	01

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1	00700049 0857	ACCESSORIES, CABLE TRAILING	JCM00621 0162	01
QTY	PART NUMBER	DESCRIPTION	REFERENCE DRAWING	SH NO
<b>CUTTER GROUP</b>				
1	00533044 2035	FRAME CUTTER	00533044 2035	02
1	00534854 0055	CUTTER HEAD GEAR CASE	00534854 0055	01
1	SK024122 0000	VALVES, TORQUE, CAP SCREWS	SK024122 0000	01
1	00534461 2002	CASE, GEAR	00534461 2002	01
1	00703444 0165	DRIVE, CUTTER	JCM00709 0086	01
1	00703440 0337	MOUNTING, DRUM, CUTTER	JCM00710 0098	01
2	00571659 0006	TORQUE LIMITING CLUTCH	00571659 0006	01
2	00500140 0538	CYLINDER (HYDRAULIC) (SHEAR)	00500140 0538	01
1	00534613 0020	VALVE, CHECK (PILOT OPER-ATMOS. RELIEF)	00534613 0020	01
1	00703482 0032	MOUNTING, CUTTER HEAD	JCM00871 0031	01
<b>CONVEYOR GROUP</b>				
1	00483003 0022	SIDEBOARDS, SUPPORT FRAME	SK025381 0007	01
1	00720513 0005	REWORK CONVEYOR GROUP		
1	00483004 0003	SIDEBOARDS, CONVEYOR FRAME (38" CONV)	SK025382 0001	01
1	00482993 0170	PARTS REQ'D TO ADD ROOF STOP TO READ CONVEYOR 14CM 9 & 10	SK024774 0105	01
1	00700738 0318	MOUNTING CONVEYOR AND SUPPORT FRAME	JCM00729 0052	01
1	00720513 0023	MOUNTING, CONVEYOR GREASE TAKE UP	SK025547 0016	01-02
1	00533854 0005	SLIDE PLATE TAIL		
2	01061872 0001	FLEX SIDE BOARDS		
1	00720513 0022	MOUNTING CONVEYOR	SK025547 0015	02
1	00531840 0004	ROLLER ASSEMBLY	00531840 0004	01
1	00500140 3339	CYLINDER, CONVEYOR SWING	00500140 3297	01
2	00500112 0539	CYLINDER, CONVEYOR ELEVATE	00500112 0539	01
1	00534613 0020	VALVE, CHECK (PILOT OPER-ATMOS RELIEF)	00534613 0020	01
1	00703481 0002	MOUNTING, CONVEYOR ASSEMBLY	JCM00870 0003	01
3	00509192 0048	3 ¼ PITCH UNIVERSAL CONVEYOR CHAIN – PACKAGE 8 ASSEMBLY INSTRUCTIONS 36 3/8" WIDE	00509192 0000	01
1	00509192 0060	3 ¼ PITCH UNIVERSAL CONVEYOR CHAIN – PACKAGE 8 ASSEMBLY INSTRUCTIONS 36 3/8" WIDE	00509192 0000	01

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<b>GATHERING HEAD GROUP</b>				
1	00507313 2130	GATHERING HEAD FRAME		
1	00703465 0104	ASSEMBLY, GATHERING HEAD	JCM00852 0105	01-02
1	00720366 0009	MODIFICATION, CLA FOR 60" CLA 4" THK	SK025461 0007	01
1	03069850 0140	SPROCKET, FOOTSHAFT, GATHERING		
1	00572019 0045	GATHERING HEAD GEAR CASE (L.H.)	00572019 0045	01-02
1	SK021855 0000	INSTALLATION INSTRUCTIONS FOR CATERPILLAR SEALS	SK021855 0000	01
1	00572019 0044	GATHERING HEAD GEAR CASE (R.H.)	00572019 0044	01-02
1	SK021855 0000	INSTALLATION INSTRUCTIONS FOR CATERPILLAR SEALS	SK021855 0000	01
1	00700075 0234	MOUNTING, GATHERING HEAD (22" CRAWLERS)	JCM00707 0121	01
2	00500112 0537	HYDRAULIC CYLINDER	00500112 0537	01
<b>CHASSIS GROUP</b>				
1	00703500 4523	PARTS REQ'D TO ADD SILENCER TO FAN	SK024774 0042	01
1	00482992 0586	MAIN FRAME MODIFICATION FOR REMOVABLE L.H. SIDE PLATE	SK025366 0000	01
1	00482992 0572	REAR CONVEYOR SAFETY PROP	SK024470 0025	01
1	00570425 0000	HOOKS, TRAILING CABLE, ADDITION		
1	00483009 0134	COLLECTOR, DUST 12CM	JCM00731 0139	01
1	00482992 0591	WEIGHT, CHASSIS		
1	00500140 0460	HYDRAULIC CYLINDER STABILIZER	00500410 0460	01
1	00700081 0347	FINAL ASSEMBLY PARTS (12CM12)	JCM00714 0065	01
1	00703759 0030	STOPS, FRAME CUTTER	JCM00764 0057	01
1	00703500 9006	PARTS REQ'D TO ADD SHEAR CYLINDER STOPS	SK024470 0020	01
1	00507048 0089	REDUCER, TRACTION	00507048 0089	01
1	100072014 0000	KIT, HARDWARE		
1	00507048 0090	REDUCER, TRACTION	00507048 0089	01
1	SK021855 0000	INSTALLATION INSTRUCTIONS FOR CATERPILLAR SEALS	SK021855 0000	01
1	100052050 000	TAKE UP, CHAIN CRAWLER	00500693 0058	01
1	00530735 0037	PLANETARY TRACTION	00530735 0037	01
1	00720102 0518	DRIVE PARTS, TRACTION	JCM00708 0092	01-02
2	00509132 0018	7" PITCH CRAWLER CHAIN 22" WIDE	00509132 0000	01
2	00509132 0020	7" PITCH CRAWLER CHAIN 22" WIDE	00509132 0000	01
1	00720058 0147	COLLECTOR, DUST, 12CM	JCM00731 0139	01

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1	00482992 0586	MAIN FRAME MODIFICATION FOR REMOVABLE L.H. SIDE PLATE	SK025366 0000	01
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QTY	PART NUMBER	DESCRIPTION	REFERENCE DRAWING	SH NO
<b>HYDRAULIC GROUP</b>				
1	00720469 0120	PIPING, PUMP	PD005038 0178	01-02
1	00720475 0056	DIAGRAM, PIPING SHEAR CIRCUIT	PD004696 0009	01
1	00720484 0043	PIPING, GATHERING HEAD	PD004695 0010	01
1	00720468 0048	DIAGRAM, PIPING REAR CONVEYOR CIRCUIT	PD004694 0009	01
1	PD004697 0008	PIPING, STABILIZER	PD004697 0008	01
1	00712031 6215	PARTS TO ADD TEST STATION	PD003671 0000	01
1	A0032579 0000	ADJUSTABLE ORIFICE ELBOW	A0032579 0000	01
1	A0045090 0000	RELIEF VALVE	A0045090 0000	01
1	X0003043 0009	CHECK VALVE	X0003043 0009	01
1	00503246 0014	ACCUMULATOR (1 GAL)	00503246 0014	01
1	00503203 0004	DIVERSION VALVE	00503203 0004	01
1	00531873 0000	VALVE (SEQUENCE)	00531873 0000	01
1	00531873 0013	VALVE, SEQUENCE	00531873 0013	01
1	00534614 0008	VALVE SELECTOR	00534614 0008	01
1	00571686 0000	RESISTOR FILTER	00571686 0000	01
1	00506248 0013	PUMP, HYDRAULIC	00506248 0013	01
1	00700072 0100	DRIVE PARTS, PUMP HYDRAULIC	JCM00712 0028	01
1	00570553 0002	CARTRIDGE, SOLENOID	00570553 0002	01
1	00532520 0004	HYDRAULIC OIL FILTER (SPIN ON TYPE)	00532520 0004	01
1	00503076 0008	OIL FILTER	00503076 0008	01
1	00712051 5186	HYDRAULIC PARTS, PRESSURE FILTER		
1	00712051 5348	HYDRAULIC PARTS, DUST COLLECTOR		
1	00712031 6631	HOSE ENDS & ADAPTERS, HYD. DUST		
1	PD006300 0000	DIAGRAM, PIPING DUST COLLECTOR CIRCUIT	PD006300 0000	01
1	PD006300 0141	HOSE CHART, DUST COLLECTOR SYSTEM	PD006300 0141	01
1	00712051 5170	HYDRAULIC PARTS, FAST CUTTER B,		
1	X0003044 0001	CHECK VALVE (NEEDLE & CHECK)	X0003044 0001	01
1	00534614 0008	VALVE, SELECTOR	00534614 0008	01
1	00571686 0000	BLOCK, FILTER, RESTRICTOR	00571686 0000	01
1	00506230 0066	VALVE, CONTROL	00506230 0066	01
1	A0063608 0000	CONTROL VALVE	A0063608 0000	01
1	00533872 0002	VALVE, WATER, 2 WAY	00533872 0002	01
1	00533872 0001	2 AY WATER VALVE N/C	00533872 0001	01

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<b>HYDRAULIC GROUP CONTINUED</b>				
1	00532170 0058	VALVE, SOLENOID	00532170 0058	01
1	00712051 5157	PARTS REQ'D TO ADD HYDRAULIC TEST STATION TO 12CM/HM12	PD004443 0000	01
1	00712051 5282	HOSES, REPLACEMENT CHASSIS	PD006036 0000	01
1	00703485 0006	HYDRAULIC HOSE GUARD	JCM00873 0005	01
1	00530553 0099	FILTER	00530553 0099	01
1	00531601 0005	VALVE, REDUCING, PRESSURE	00531601 0005	01
1	00532170 0013	VALVE (SOLENOID) (N/C)	00532170 0013	01
1	5000001842 00	PIPING, TRACTION BRAKE	5000001842 00	01
<b>DUST SUPPRESSION GROUP</b>				
1	PD006765 0000	DIAGRAM, PIPING, DUST SUPPRESSION	PD006765 0000	01
1	00530553 0048	FILTER, WATER	00530553 0048	01
1	00534428 0002	VALVE, (PRESSURE REDUCING)	00534428 0002	01
1	00533872 0001	2 WAY WATER VALVE N/C	00533872 0001	01
1	00571961 0004	WATER PUMP	00571961 0004	01
<b>FIRE SUPPRESSION GROUP</b>				
1	00720473 0107	PIPING, FIRE SUPPRESSION	PD005009 0058	01
<b>LUBRICATION GROUP</b>				
1	LD000785 0019	LUBRICATION DIAGRAM	LD000785 0019	01
1	00700067 6041	LUBRICATION PARTS		
1	00712032 6203	HOSE ENDS & ADAPTERS, LUBRICATION		
1	LD001224 0000	PIPING, LUBRICATION	LD001224 0000	01
1	LD001224 0002	PIPING, LUBRICATION	LD001224 0002	01-02
1	00700045 0218	TOOL LIST		
1	03069842 0002	PUNCH, SLEEVE		
1	00700054 0341	LOCATION, NAME PLATE	SK025057 0024	01
1	JCM00736 0000	REFLECTIVE TAPE LOCATION	JCM00736 0000	01
1		HYDRAULIC FITTINGS FORM 8698 (PAGES 1 -24)	FORM8698 0000	01-24