

**GENERAL INFORMATION**

Elevation .....2500 FASL Duplicate Job or Model .....N/A  
 Packager Guideline .....B200 Customer Vendor List .....No  
 Foundation Type .....Unknown Customer Spec ..... No  
 Site Power ..... Unknown

**COMPRESSOR**

Reciprocating ..... Ariel JGA/2

Cylinder	1	2	3	4
Stage	2	1		
Model	5-1/8 JG	3 JG		
Bore	4.750"	3"		
MAWP (psig)	865	2550		
HCVA	0	0		
Clearance Pocket	VVCP	VVCP		
Valve Unloader	No	No		
Rider Rings	No	No		
Distance Piece	Short 1-C Type 1	Short 1-C Type 1		

**Cylinder Options**  
 SST Valves .....No Non-Metallic Valves ..... No  
 SST Rods .....No Nace Bolting ..... No  
 Purge Packing .....No Cylinder Ind Connection ..... No

**Frame Options**  
 Duplex Oil Filter .....No Cyl No-Flow ..... Electric  
 LO Priming Pump .....No Amot Thermo Valve ..... No  
 Flushing Oil .....No LO Press Switch ..... Electric  
 316 SST Tube/Fittings .....No Analyzer Drive Shaft .....No\*  
 Crankcase Rlf Door .....No Vibration Switch ..... Electric  
 Aring Temp Sensors .....No Guide Supports ..... No  
 Seal .....No Torsional ..... No  
 Frame Lube Supply ..... Day Tank PV&D Type ..... Skid Edge  
 Lubricator Lube Supply ..... Day Tank  
 \*A drilled tapped hole for an analyzer drive shaft is provided

**Tests & Inspections**  
 Special Hydro Tests .....No Witness Tests ..... No  
 Material Certificates .....No

**DRIVER**

**Engine.....Caterpillar G3306TA**  
 Site Rating ..... 203HP @ 1800 RPM Compression Ratio .....8:1  
 Exhaust Material .....304SS Exhaust Insulation .....Yes  
 Silencer Grade ..... Supercritical Warm Air Makeup ..... No  
 Silencer Mounting ..... Cooler Ignition Type ..... Altronic III  
 Emissions Control .....No Pyrometer ..... No  
 Crankcase Relief Door .....No Microspin Filtration ..... No  
 Air Cleaner Type .....Dry Oil Filter Type ..... Cartridge  
 Flywheel .....Yes

**COOLER**

Model ..... Air-X-Changers 72AVI  
 Enerflex Spec ..... Applicable Customer Spec .....N/A  
 Mfg Job # ..... 055580

**Performance**

Service	EJW	AUX	IC-1	AC
Temp Out (degF)	167.2	130.0	117	120
Oiling Factor	0.0005	0.0005	0.002	0.002
Design Press @ Temp (psig/degF)	14 @ 300	14 @ 300	1292 @ 350	1292 @ 350
Nozzle Rating	3" - stub	1-1/2" - cplg	3" - 600RF	3" - 600RF
Tube Material PWHT	SA214	SA214	SA214	SA214
100% Xray/UT	No	No	Spot	Spot

Special Chemistry	No	No	No	No
Cold Temp Material	No	No	No	No
Louvre Type	Manual	Manual	Automatic	Automatic
Corrosion Allowance	0	0	1/16"	1/16"

**Design**  
 Fan Type ..... Moore-CL5K RPM ..... 530  
 No. Fans .....1 HP/Fan ..... 8.93  
 Fan Drive ..... V-Belt Fan Tip Speed .....  
 Fan Power ..... 8.93 HP Bug Screen ..... Yes  
 Fan Noise ..... Hail Guard .....No  
 Warm Air Recirc ..... No Ambient Design ..... 90 deg F

**PROCESS FLOW**

**Gas Analysis**

Provided	H <sub>2</sub> S Content	CO <sub>2</sub> Content	Free H <sub>2</sub> O
No	0%	0%	0 gal/SCF

**Process Conditions**

	Start-up	Design
Gas Flow	1.932	1.635
Number of Stages	2	2
Specific Gravity	0.65	0.65
Suction Temperature	60 deg F	60 deg F
Suction Pressure	250	200
Discharge Pressure	1200	1200

Stage	Suction MAWP	Discharge MAWP	PSV Set
Suction	740 psig @ 100°F	Not Applicable	-
1	707 psig @ 150°F	1292 psig @ 350°F	707 psig
2	707 psig @ 150°F	1292 psig @ 350°F	1292 psig

**VALVING**

Enerflex Spec ..... Applicable Customer Spec ..... N/A  
 Auto Suction Control ..... No Suction Block ..... No  
 Auto Bypass ..... No Suction Thermal PSV ..... No  
 Scrubber LCV ..... 1.0 in Manual Drain ..... 1.0 in

**SERVICE PIPING**

Enerflex Spec ..... Applicable Customer Spec ..... N/A  
 Fuel Gas ..... 3000# NPT Start Gas ..... 3000# NPT  
 Engine Lube Oil ..... 2000# NPT Compressor Lube Oil ..... 2000# NPT  
 Engine Glycol ..... 3000# NPT Packing Vent/Drain ..... 2000# NPT  
 Scrubber LCV ..... 3000# NPT Packing Vent/Drain ..... 2000# NPT

	Valve Size	Pipe to Drain Header
Scrubber LCV	1.0 in	1.0 in, 3000# threaded
Manual Drain	1.0 in	1.0 in, 3000# threaded
Drain Header	N/A	1.5 in, 3000# threaded

Tubing	Process	Control	PV&D	Others
Size (in)	Various	Various	Various	Various
Material	316SS	304SS	AQ Hose	304SS
Fittings	Cad-plated	Cad-plated	AQ	Cad-plated

Note: 1.Engine & Compressor manufacturer may supply CS fittings & tubing.  
 2.Nylon tubing may be used for instrumentation

**DRIVE TRAIN EQUIPMENT**

Coupling ..... Thomas 350 CMR Gearbox ..... No  
 Torsional Study ..... No Flywheel ..... No  
 \*\*Applicable to electric motor drives or torsional issues

**SKID**

Enerflex Spec ..... Applicable Customer Spec ..... N/A  
 Skid Type ..... One Piece Concrete ..... N/A  
 Concrete Type ..... Enerflex Standard  
 Skid Drip Pan ..... Yes\* Waste Oil Tank ..... Yes  
 Grating ..... Yes PVD Tank ..... No  
 Glycol Transfer Tank ..... No Drip Lip ..... No  
 \*Drip pan will be included on new units built from scratch

**PROCESS VESSELS**

Enerflex Spec ..... Applicable Customer Spec ..... Exceptions  
 Long Seam Flux Core ..... No\* Butt Weld Flux Core ..... Yes  
 Corrosion Allowance ..... 1/16" Registration ..... AB/SASK/BC  
 Sandblast (internal/external) ..... Yes Stress Relief ..... No  
 Instrumentation ..... NPT Charpy Tested ..... No  
 Oiling ..... Yes Special Chemistry ..... No  
 Flanged Instrument Conn's ..... No  
 \*No FCW on new units ordered from scratch

**Liquid Removal**  
 Slugcatcher ..... No Blowcase ..... No

Stage	Type	Dia.	Length	MAWP	Orientation
1	Filter	16"	60"	707 psig @ 150F	Horizontal
2	Mesh	16"	60"	707 psig @ 150F	Horizontal

Note: Stages 1 and 2 share a common separator.

**Pulsation Control**

Stage	Type	Dia.	Length	Removable
1	N/A	N/A	N/A	N/A
2	N/A	N/A	N/A	N/A

**Non-destructive Examination**  
 Radiography ..... 10% UT Testing ..... No  
 Mag Particle ..... No Stress Relief ..... No  
 Other ..... (None)

**PROCESS PIPING**

Enerflex Spec ..... Applicable Customer Spec ..... Exceptions  
 Flux Core Welding ..... No\* Corrosion Allowance ..... 1/16"  
 On Vessel Butt Welds ..... Yes Sandblast ..... Yes  
 Bolting ..... B7 / 2HM Gasketing ..... 316 SS Flex  
 Charpy Tested ..... No Internal Oil ..... Yes  
 \*No FCW on new units ordered from scratch

**Acoustical**  
 Acoustical Study ..... Not included By ..... N/A  
 Pipe Clamp Diagram ..... N/A Clamp Type ..... Enerflex standard

**Stress Relieving**  
 Butt Weld Piping ..... No SW Piping ..... No  
 SW Drain Header ..... No SW Scrubber Drain ..... No  
 Other ..... None

**Non-destructive Testing**  
 Butt Weld XRay ..... 10% UT Testing ..... No  
 SW XRay ..... No Hydrotest Duration ..... 10 min  
 Mag Particle Inspection ..... No  
 Other ..... None

**CONTROL SYSTEM**

**Model.....Altronic**  
 Enerflex Spec ..... Applicable Customer Spec ..... N/A  
 Cabinet Type ..... Aluminum Location ..... On-skid  
 Remote Shutdown ..... No Remote Status ..... No  
 Gas Supply ..... By customer Power Supply ..... N/A  
 Instrument tagging ..... No By ..... Customer  
 IG Supply ..... Yes IG Vent Header ..... Yes  
 Instrument Scales ..... Dual

**BUILDING**

Enerflex Spec ..... Applicable Customer Spec ..... N/A  
 Installation ..... Enerflex Shop Fire Detection ..... Fusible Loop  
 Exhaust Fan ..... No Gas Detection ..... No  
 Air Change per Hour ..... N/A Heaters ..... (2) Catadyne  
 Snow Load ..... 50 lb/ft<sup>2</sup> Wind Load ..... 9.4 lb/ft<sup>2</sup>  
 Exterior Finish ..... Galvanized Interior Finish ..... Fluted aluminum  
 Lining ..... Fluted aluminum Trim ..... Galvanized  
 Insulation ..... R12

**ELECTRICAL**

Enerflex Spec ..... Applicable Customer Spec ..... N/A  
 IS Wiring By ..... Enerflex Type ..... Conduit  
 Power Wiring By ..... Customer  
 Other ..... N/A

	Supply Power to Motor
Electric Motor Drive (if applicable)	N/A
Low Horsepower (<1/2 hp) Motors	120V/1/60Hz
High Horsepower (>1/2 hp) Motors	TBD

**Electrical Classifications**  
 Building ..... CSA Class 1 Zone 2 Panel ..... CSA Class 1 Zone 2  
 EMD ..... CSA Class 1 Zone 2 Junction Boxes ..... CSA Class 1 Zone 2  
 End Devices ..... CSA Class 1 Zone 2 Wiring ..... CSA Class 1 Zone 2

**PAINT**

Enerflex Spec ..... Applicable Customer Spec ..... N/A  
 Primer Coats ..... 1 Finish Coats ..... 1  
 Preservation ..... No  
 Note: Enerflex standard is warm grey with grating in black.

**CRANE**

Enerflex Spec ..... Applicable Customer Spec ..... N/A  
 Type ..... Not included P.Eng. Stamped ..... N/A  
 Hoist ..... N/A Trolley ..... N/A  
 Integral Oil Tanks ..... No

**SHIPPING**

Freight ..... No Crating ..... No  
 Loading ..... No  
 Ship To .....  
 Internal Preservation ..... Enerflex domestic standard  
 Maximum Dimensions (L X W X H) ..... 29'0" X 14'0" X 12'60"  
 Approximate Unit Weight ..... 32,000 lb\*\*\*  
 \*\*\*Unit specific

**RUN TEST AND INSPECTION**

Enerflex Spec ..... Applicable Customer Spec ..... N/A  
 Run Test ..... Yes Witnessed ..... No  
 Panel Function Test ..... EFX Customer Hold Point ..... No  
 Continuity Test ..... EFX Customer Hold Point ..... No  
 Instrument Calibration ..... No

**DOCUMENTATION**

Enerflex Spec ..... Applicable Customer Spec ..... Exceptions  
 Inspection & Test Plan ..... Standard Fabrication Checklist ..... Standard  
 Drawing Units ..... Imp / SI # QC Databooks ..... 1  
 # Manuals (Hard Copy) ..... 2 # CD Manuals ..... 2  
 Data Sheets ..... No Calibration Sheets ..... No  
 Electrical Certificates ..... No  
 Spare Parts Branch ..... Pamco, Grand Prairie, (780) 539-5974

**CONTACT LIST**

Company	Name	Title	Phone	Fax
ELL	Kathy Korbaylo		(403) 236-6800	(403) 279-6066
Customer				
Consultant				
Consultant				
Enerflex		Project Manager	(403) 236-6800	(403) 279-6066
Enerflex		Projects	(403) 236-6800	(403) 279-6066
Enerflex	Eric Lam	Proposals	(403) 236-6800	(403) 279-0367
Enerflex	Rick Hansen	Sales	(403) 236-6800	(403) 279-0367

**AS-BUILT**

Rev	By	Date	Description
B	ENHL	01/12/2006	DATE FEB 28 2006 For Work Order
A	ABC	99/99/9999	For Approval

**ENERFLEX**  
 Title: PROJECT SCOPE SUMMARY  
 B200 (Sweet)  
 Customer: Winter Petroleum Ltd. c/o ELL  
 Location: (Location TBA)  
 Consultant: Consultant Name LSD: 10-24-110-04W6M  
 P.O.: Enerflex No: 051009  
 Doc No: SS051009 Rev. 0