

# *Aspire Energy Resources Ltd.*

53 Burnt Lake Crescent  
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## **1.0 SHELL "Reconditioned"**

- 1 54" Diameter x 22'0" Long Shell  
24" Diameter x 4'0" Long Expansion Tank

## **2.0 FIRETUBES**

- (1) 16" O.D Firetube. Rated at 1,750,000 BTU/HR (10,000 flux)
- (1) Steel Flame Arrestor c/w Eclipse main and pilot burners

## **3.0 COILS (*Split Bundle*)Reconditioned**

Manufactured by Natco Canada in 1998  
Re-certified by Aspire Energy in 2014

### COIL 1

- (8) Eight Passes of 3" Sch. 160 Pipe c/w 3" 1500# RTJ / 2" 1500# RTJ  
flanged outer ends  
MAWP 3375 Psi @ -20/200 F  
Constructed with Alberta / BC & Sask. Registration  
100% X-ray / PWHT

### COIL 2

- (6) Six Passes of 3" Sch. 80 Pipe c/w 3" 900# RFF / 2" 900# RFF flanged  
outer ends  
MAWP 2025 Psi @ -20/200 F  
Constructed with Alberta / BC & Sask. Registration  
100% X-ray / PWHT

#### 4.0 INSTRUMENTATION

PRV-100	(1)	FISHER MODEL 627-R PRESSURE REDUCING VALVE 1" FNPT connections 5 to 20 psi range 3/8" orifice Standard service construction
BMS-100	(1)	PROFIRE 2100 SAFETY COMBUSTION CONTROLLER 24 VDC supply
HTSD-100	(1)	PROFIRE TYPE "K" THERMOCOUPLE XP enclosure 3/4" x 11.5" 316 SS T.W.
TCV-100	(1)	KIMRAY MODEL 1400-SMT DAB CONTROL VALVE 1" NPT connections Air to open / fail closed 1/2" port
ESDV-100 101	(2)	ASCO 1" NPT SOLENOID VALVE 1" NPT connections 24 VDC XP design
SOV-100	(1)	ASCO 1/4" 2 WAY SOLENOID VALVE 24 VDC XP design
SOV-101	(1)	ASCO 1/4" 3 WAY SOLENOID VALVE 24 VDC XP design
PSL/PSH-100	(2)	BARKSDALE ELECTRIC PRESSURE SWITCHES(or equal) XP design Range to suit
LSSL-100	(1)	SOR 1510 ELECTRIC LEVEL SWITCH XP design 2" MNPT connection
LG-100	(1)	REDLINE TUBULAR GLASS LEVEL GAUGE C/w brass gauge cocks
TI-100	(1)	TREND TEMPERATURE INDICATOR 3" dial, 6" U length Dual Scale C/w 3/4" MNPT x 1/2" FNPT x 6" long 304 SS thermowell

PI-100/101 (2) WESTERN GAUGE PRESSURE INDICATORS  
2 1/2" Dial, 1/4" bottom mount  
0 to 30 psi range

## 5.0 SKID SPECIFICATION

5'0" wide x 30'0" long  
8" beam main members  
Lift lugs

## BUILDING SPECIFICATIONS

3'0" HIGH x 5'0" LONG x 2'0" DEEP FOAM PANEL INSTRUMENT  
ENCLOSURE

## 6.0 MATERIAL SPECIFICATIONS

### Coils

Flanges	SA-105-N
Pipe	SA-106-B
Fittings	SA-234-WPB

### Threaded Piping

Pipe	SA-106B
Fittings	SA-105, 3000#

### Instrumentation Fittings

Tubing	3/8" 316 SS seamless.035 wall
Fittings	3/8" 316 SS DKLOK

## 7.0 TESTING

### Hydrotesting

Coils and piping will be hydrotested to 1.5 times Maximum Allowable Working Pressure as per ASME B31.3

### Ultrasonic Thickness Testing

Coils Yes

Firetube Yes

### Magnetic Particle Testing

Firetube Yes

## 8.0 PAINTING AND COATING SPECIFICATIONS

External Surface Preparation

External Finish

External Insulation

SSPC-SP-3

One (1) Shop Black Enamel

1 1/2" Fiberglass c/w Aluminum

Cladding on exposed shell