ONE (1) NATURAL GAS COMPRESSOR PACKAGE

FOR: EÓG RESOURCES LTD.

LOCATION NAME: CLARKS CREEK FACILITY MOUNTRAIL COUNTY, ND

SEC 7 TOWNSHIP 151N RANGE 94W

FABRICATED BY:

ENERFLEX SYSTEMS INC. CALGARY, ALBERTA, CANADA

TANK CAPACITIES

GLYCOL STORAGE TANK: 109 US GALLONS 109 US GALLONS WASTE OIL STORAGE TANK: COMPR. LUBE OIL DAYTANK: 56 US GALLONS ENGINE LUBE OIL DAYTANK: 56 US GALLONS

POWER REQUIREMENTS

ENGINE IGNITION SYSTEM: VOL: 24 VDC

CONTROL PANEL: VOL: 24 VDC AMPS: NOM: 4.0 MAX: 10 FIRE DETECTION: VOL: 24 VDC AMPS: NOM: 0.1 MAX: 0.3 LEL DETECTION: VOL: 24 VDC AMPS: NOM: 0.2 MAX: 0.3

LIGHTS: (EXT.) 150W, 120 VAC/3PH/60HZ (INT.) 150W, 120 VAC/3PH/60HZ

SYSTEM CONSUMABLES

COMPRESSOR CRANKCASE LUBE OIL: COMPRESSOR CYLINDER LUBE OIL

ENGINE CRANKCASE LUBE OIL: SAE 40, LOW ASH, 44 US GALLONS GLYCOL:

50% ETHYLENE INHIBITED GLYCOL/WATER SOLUTION IN ENGINE & AUXILIARY JACKET WATER SYSTEMS

EJW CAPACITY: 65 US GALLONS AJW CAPACITY: 24 US GALLONS

SAE 40, LOW ASH

SAE 40, LOW ASH, 15 US GALLONS

DESIGN CRITERIA & APPLICABLE CODES

SITE FLEVATION: 1800 FT ABOVE MEAN SEA LEVEL

BAROMETRIC PRESSURE: 13.753 PSIA AMBIENT TEMPERATURE: MAXIMUM 100°F

MINIMUM -20°F WIND SPEED: 160 km/hr MAXIMUM

PROCESS INLET: DESIGN 230 PSÍG @ 300°F PROCESS FINAL DISCHARGE: DESIGN 1932 PSIG @ 350°F INSTRUMENT GAS: MINIMUM PRESSURE 50 PSIG

MAXIMUM PRESSURE 150 PSIG

FILTERED/DRY, 50°F MAXIMUM DEW POINT QUALITY

CODE PIPING B31.3 - LATEST EDITION APPLICABLE CODE: NON-CODE PIPING EFX CO1, 1mm CA

ASME SECTION VIII **VESSEL EXCHANGER** ASME SECTION VIII **STRUCTURAL** AWS D1.1 ELECTRICAL NEC

VESSEL, COOLER **REGISTRATION:** AB,BC,SK,NB

GASKETS CG TYPE, SPIRAL WOUND, GRAPHITE FILLED, 316SS MISCELLANEOUS: BOLTING STUDS - SA-193-B7, NUTS - SA-194-2H

PROCESS PIPE CARBON STEEL UTILITY PIPE CARBON STEEL

RAISED FACE (UNLESS OTHERWISE NOTED) FLANGES REMOVABLE FULL BORE ORIFICE, SUCTION & ORIFICE PLATES

DISCHARGE FOR EACH CYLINDER TUBING & FITTINGS:

TUBING - 316(SS) SMLS **PROCESS** FITTINGS - 316(SS) (SPE-010-TUB)

FERRULES - 316(SS)

UTILITY TUBING - 316(SS) SMLS

FITTINGS - 316(SS) FERRULES - 316(SS)

FRAME INTERNALS TUBING - 316(SS) SMLS

FITTINGS - 316(SS) RIGID ALUMINUM CONDUIT CLASS 1, DIV 2, GROUP D

ELECTRICAL:

SUITABLE FOR USE IN:

DESIGN SPECIFICATION:

ENERFLEX LTD. (EFX) SCOPE OF SUPPLY ON THIS PROJECT CONSISTS OF ONE SKIDDED GÀS COMPRESSOR PACKAGE.

PACKAGE CONSISTS OF ONE (1) H24GSI ENGINE DRIVING AN COMPRESSOR-ARIEL JGJ/4, THREE STAGE, SWEET NATURAL GAS COMPRESSOR.

PRIMER: -CAC-ENG-SPC-001,FIN-1, ECO PRIME WATER BASED

PRIMER, CLOVERDALE 703 SERIES.

-CAC-ENG-SPC-001, FIN-1, ECOLOGIC WATER BASED PAINT:

INDUSTRIAL ENAMEL

COLOR: CARLSBAD CANYON TAN

PROCESS PIPING: -5% RADIOGRAPHIC TESTING - RT2 -1/16" CORROSION ALLOWANCE

-NO PWHT

-SSPC-SP3

-SPOOLING BETWEEN CONE STRAINER AND COMPRESSOR SUCTION FLANGE SANDBLASTED INTERNALLY SSPC-SP6

-NO PICKLING

VESSELS: -5% RADIOGRAPHIC TESTING - RT2

> -NO PWHT -SSPC-SP3 -NO PICKLING

-SPOOLING BETWEEN CONE STRAINER AND COMPRESSOR SUCTION FLANGE SANDBLASTED INTERNALLY SSPC-SP6

FINAL **AS BUILT**

TE 05/28/12 **ENERFLEX** P & I DIAGRAM
 DRAWN BY
 CHECKED BY
 APPROVED BY

 A.HAMMOND
 L. Dioquino
 S. Pritchard

 PROJECT MANAGER
 PROJECT ENGINEER
PROJECT DESCRIPTION Calgary, Alberta, DEC.11/12 MD LD 1 FINAL AS-BUILT & OVERVIEW S. Pritchard Canada 0 ISSUED FOR CONSTRUCTION 09/17/12 AH LD CUST PO A ISSUED FOR APPROVAL 31971-099 APEGGA PERMIT No: P8651 STEP N/A WORK 31971





















