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ALBERTA MUNICIPAL AFFAIRS

ABSA, the pressure equipment safety authority
 9410 – 20th Avenue
 Edmonton, AB T6N 0A4
 Partial/Partiel

**MANUFACTURER'S DATA REPORT
 FOR PRESSURE VESSEL
 DÉCLARATION DE CONFORMITÉ DU CONSTRUCTEUR
 D'APPAREILS SOUS PRESSION**

Upon shipment of a pressure vessel, this form fully and correctly filled in must be mailed to the office of the Chief Inspector in the province of installation in accordance with the regulations under the Act, governing the construction and installation of pressure vessels.
 Au moment de l'expédition d'un appareil sous pression, ce formulaire complété correctement, doit être envoyé au bureau de l'inspecteur en chef de la province d'installation tel que prévu dans les règlements de la loi sur les appareils sous pression.

Manufactured by Construit par	Name and address of Manufacturer/Nom et adresse du constructeur Aspire Energy Resources Ltd 53 Burnt Lake Cres. Red Deer, Alberta T4S 0K6
Manufactured for Construit pour	Name and address of Purchaser or Consignee/Nom et adresse du client ou de son représentant Aspire Energy Resources Ltd 53 Burnt Lake Cres. Red Deer, Alberta T4S 0K6
Ultimate owner Utilisateur	Name and address/Nom et adresse Aspire Energy Resources Ltd 53 Burnt Lake Cres. Red Deer, Alberta T4S 0K6
Location of installation Lieu d'installation	Address/Adresse Unknown

Pressure vessel/Appareil

Type/Genre Horizontal Separator	Overall Length/Longueur totale 10'0" s/s	Serial No./N° de série 500.802	Year Built/Année de fabrication 2019
Provincial Registration No. – C.R.N./N° d'enregistrement provincial - N.E.C. Y3065.2		National Board No./N° National Board -	Drawing No./N° de dessin 5076 SHTS 1,2 Rev 2

The chemical and physical properties of all parts meet the requirements of material specifications of the A.S.M.E. Code.
 Les propriétés chimiques et physiques de toutes les composantes respectent les exigences des spécifications de matériaux de code ASME.

The design, construction and workmanship conform to CSA B51. La conception, la construction et la façon sont conformes à ACNOR B51.	ASME Section VIII	Division I	Edition/édition 2017	Code case No. N° de cas -
Manufacturer's partial data reports properly identified and signed by authorized inspectors have been furnished for the following items of the report, and attached to this report: Les rapports partiels du constructeur adéquatement identifiés et signés par les inspecteurs autorisés ont été produits pour les items suivants du rapport, et attachés à ce rapport:				
Names of parts/Nom de la composante Vessel	Manufacturer's Name/Nom du constructeur Score Projects Inc	Identifying Stamp/Estampe d'identification 500.802		

Shell/Virole

Material Matériau	Thickness Épaisseur	Corr. Allow. Surépais. de corr.	Diameter Diamètre	Longitudinal Joints Joints longitudinaux			P.W.H.T. Traitement therm		Girth Joints Joints de circonférence			Number of courses Nombre de sections
				Type	R.T. Radiog.	Efficiency Efficacité	Temp.	Time Durée	Type	R.T. Radiog	Efficiency Efficacité	

Body Flanges on Shells/Brides de corps sur les coquilles

No.	Type	ID	OD	Flange Thk l'épaisseur de la bride	Min Hub Thk l'épaisseur minimum de moyeu	Material Matériau	How Attached l'attachement de	Location Emplacement	Bolting/boulonnage Spec. & Gr.	
									Num & Size Nombre et la taille	Bolting Material Matériau de boulonnage

Heads/Tetes

Location Top, Bottom, Ends Emplacement Haut, Bas, Extrémités	Material Matériau	Min. Thckn. Épals minm.	Corr. Allow Surép. de Corr.	Crown. Radius Rayon couron.	Knuckle Radius Petit rayon	Ellipse Ratio Rapp. ellipse	Conical Apex Angle Angle conique	Hemisph. Radius Ray. Hémisph	Flat Diameter Diam plat	Side to pressure Côte sous pression
a										
b										

MFG Representative/MFG représentant:		Date: March 21, 2019
Authorized Inspector/inspecteur autorisé:		Date: MAR 21 2019

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Serial No: 500.202

Remarks/Observations (Cubical capacity/Volume/Capacité cubique/volume de)

Construction Drawing: 5165-05 Rev. 3
 Volume: 78 CuFt (2.21 CuM)
 Empty Weight: 18,700lbs (8482 Kg)

Certificate of Compliance/Certificat de conformité

We certify that the statements made in this data report are correct and that the said vessel has been constructed in accordance with the Provincial Registered design below and the requirements of standard CSA B51. *Nous certifions que les données de la déclaration de conformité sont correctes et que l'appareil a été construit en accord avec l'enregistrement provincial ci-dessous et les exigences de la norme ACNOR B51.*

Provincial Registered Design/Enregistrement provincial Y3065.2

Manufacturer/Constructeur Cindy Toews Signature  Date March 21/19

Certificate of Shop Inspection/Certificat d'inspection en usine

I, the undersigned, a duly authorized boiler and pressure vessel inspector/Je, soussigné, inspecteur autorisé de chaudières et appareil sous pression employed by (employé par) Alberta Boilers Safety Association (ABSA) of (de) Alberta have inspected the above vessel and state that to the best of my knowledge and belief the manufacturer has constructed the vessel in accordance with Canadian Registration No. Y3065.2 and the requirements of CSA Standard B51. By signing this certificate, neither the inspector nor his or her employer makes any warranty, expressed or implied, concerning the vessel described in this manufacturer's data report. Furthermore, neither the inspector nor his or her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

ai inspecté l'appareil précité et, autant que je sache, le constructeur a construit l'appareil en accord avec le numéro d'enregistrement canadien _____ et les exigences de la norme CSA B51. En signant ce certificat, ni l'inspecteur ni son employeur ne donnent de garantie explicite ou implicite relativement à l'appareil décrit dans la présente déclaration. De plus, ni l'inspecteur ni son employeur ne doivent être tenus responsables de quelque manière que ce soit des dommages, matériels ou corporels, ou des pertes de quelque nature que ce soit pouvant résulter de cette inspection.

Inspector's Name NB13790 D00005479 Signature  Date MAR 21 2019
 Nom de l'inspecteur Scott Forbes

Certificate of Compliance - Field Work/Certificat de conformité - Installation au chantier

We certify that the field installation of all parts of the vessel conforms with the requirements of Provincial Regulations. *Nous certifions que l'installation au chantier de toutes les composantes de l'appareil est conforme aux règlements provinciaux.*

Installer's Name _____ Signature _____ Date _____
 Nom de l'installateur _____

Certificate of Field Inspection/Certificat d'inspection - Installation au chantier

I, the undersigned, a duly authorized boiler and pressure vessel inspector/Je, soussigné, inspecteur autorisé de chaudières et appareil sous pression employed by/employé par _____ have inspected the items not covered by the Certificate of Shop inspection and the installation of the items and state that to the best of my knowledge and belief the construction and assembly of the items are in accordance with the provincial regulations. By signing this certificate, neither the inspector nor his or her employer makes any warranty, expressed or implied, concerning the vessel described in this manufacturer's data report. Furthermore, neither the inspector nor his or her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

ai inspecté les composantes non couvertes par le certificat d'inspection en usine et l'installation de l'appareil et, autant que je sache, la construction et l'assemblage de l'appareil sont en accord avec les règlements provinciaux. En signant ce certificat, ni l'inspecteur ni son employeur ne donnent de garantie explicite ou implicite relativement à l'appareil décrit dans la présente déclaration. De plus, ni l'inspecteur ni son employeur ne doivent être tenus responsables de quelque manière que ce soit des dommages, matériels ou corporels, ou des pertes de quelque nature que ce soit pouvant résulter de cette inspection.

Inspector's Name _____ Signature _____ Date _____
 Nom de l'inspecteur _____

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PART

FORM U-2 MANUFACTURER'S PARTIAL DATA REPORT

A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by Score Projects Inc. 3814 - 47 Avenue, Stettler Alberta Canada T3C 2L0

(Name and address of Manufacturer)

2. Manufactured for Aspire Energy Resources LTD 53 Burnt Lake Crescent, Red Deer, Alberta, Canada T4S 0K3

(Name and address of Purchaser)

3. Location of installation Stock Canadian Natural Resources LTD 2100 855- 2 Street SW Calgary Alberta Canada T2P 4J8

(Name and address)

4. Type Horizontal Separator 500.802

(Description of vessel part (shell, two-piece head, tube bundle))

(Manufacturer's serial number)

(CRN)

N/A

Aspire Energy Resources

2019

(National Board number)

(Drawing number)

(Drawing prepared by)

(Year built)

5. ASME Code, Section VIII, Div. 1 2017 N/A N/A

(Edition and Addenda, if applicable (date))

(Code Case number)

(Special service per UG-129(d))

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, shell of heat exchangers, or chamber of multichamber vessels.

6. Shell: (a) Number of course(s) 1 (b) Overall length 10' S/S

Table with columns: Course(s), Material, Thickness, Long. Joint (Cat. A), Circum. Joint (Cat. A, B & C), Heat Treatment. Includes sub-columns for No., Diameter, Length, Spec. Grade or Type, Nom., Corr., Type, Full, Spot, None, Eff., Type, Full, Spot, None, Eff., Temp., Time.

Body Flanges on Shells

Table with columns: Type, ID, OD, Flange Thk, Min Hub Thk, Material, How Attached, Location, Boiling (Num & Size, Bolting Material, Washer (OD, ID, thk), Washer Material).

7. Heads: (a) SA516-70N 1125 F for 2 Hours (Material spec. number, grade or type) (H.T. — time and temp.) (b) SA516-70N 1125 F for 2 Hours (Material spec. number, grade or type) (H.T. — time and temp.)

Table with columns: Location (Top, Bottom, Ends), Thickness (Min., Corr.), Radius (Crown, Knuckle), Elliptical Ratio, Conical Apex Angle, Hemis. Radius, Flat Diameter, Side to Pressure (Convex, Concave), Category A (Type, Full, Spot, None, Eff.).

Body Flanges on Heads

Table with columns: Location, Type, ID, OD, Flange Thk, Min Hub Thk, Material, How Attached, Boiling (Num & Size, Bolting Material, Washer (OD, ID, thk), Washer Material).

8. Type of jacket Jacket closure (Describe as ogee and weld, bar, etc.)

If bar, give dimensions. If bolted, describe or sketch.

9. MAWP 1440 PSI N/A at max. temp. 130 F N/A Min. design metal temp. 1440 Psi at -50 F

(Internal)

(External)

(Internal)

(External)

10. Impact test See U-4 at test temperature of -50 F

(Indicate yes or no and the component(s) impact tested)

11. Hydro., pneu., or comb. test pressure By Others Proof test

Items 12 and 13 to be completed for tube sections.

Tubesheet

(Stationary (material spec. no.)) (Diameter (subject to press.)) (Nominal thickness) (Corr. allow.) (Attachment (welded or bolted))

(Floating (material spec. no.)) (Diameter) (Nominal thickness) (Corr. allow.) (Attachment)

13. Tubes (Material spec. no., grade or type) (O.D.) (Nominal thickness) (Number) (Type (straight or U))

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PART

FORM U-2

Manufactured by Score Projects Inc. 3814 - 47 Avenue, Stettler Alberta Canada T0C 2L0
Manufacturer's Serial No. 500.802 CRN National Board No. N/A

Items 14-18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

14. Shell: (a) No. of course(s) (b) Overall length

Table with columns: Course(s) (No., Diameter, Length), Material (Spec., Grade or Type), Thickness (Nom., Corr.), Long. Joint (Cat. A), Circum. Joint (Cat. A, B & C), Heat Treatment (Temp., Time).

Table: Body Flanges on Shells. Columns include No., Type, ID, OD, Flange Thk, Min Hub Thk, Material, How Attached, Location, Bolting (Num & Size, Bolting Material), Washer (OD, ID, thk), Washer Material.

15. Heads: (a) (Material spec. number, grade, or type) (H.T. — time and temp.) (b) (Material spec. number, grade, or type) (H.T. — time and temp.)

Table with columns: Location (Top, Bottom, Ends), Thickness (Min., Corr.), Radius (Crown, Knuckle), Elliptical Ratio, Conical Apex Angle, Hemis. Radius, Flat Diameter, Side to Pressure (Convex, Concave), Category A (Type, Full Spct. None, Eff.).

Table: Body Flanges on Heads. Columns include Location, Type, ID, OD, Flange Thk, Min Hub Thk, Material, How Attached, Bolting (Num & Size, Bolting Material), Washer (OD, ID, thk), Washer Material.

16. MAWP (Internal/External) at max. temp. (Internal/External) Min. design metal temp. at

17. Impact test (Indicate yes or no and the component(s) impact tested) at test temperature of

18. Hydro., pneu., or comb. test pressure Proof test

19. Nozzles, inspection, and safety valve openings:

Table with columns: Purpose (Inlet, Outlet, Drain, etc.), No., Diameter or Size, Type, Material (Nozzle, Flange), Nozzle Thickness (Nom., Corr.), Reinforcement Material, Attachment Details (Nozzle, Flange), Location (Insp. Open.).

20. Identification of part(s)

Table with columns: Name of Part, Quantity, Line No., Mfr's. Identification No., Mfr's. Drawing No., CRN, National Board No., Year Built.

Supports: Skirt (Yes or no) Lugs (Number) Legs (Number) Others Saddle (Describe) Attached Welded to Shell (Where and how)

22. Remarks

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PART

FORM U-2

Manufactured by Score Projects Inc. 3814 - 47 Avenue. Stettler Alberta Canada T0C 2L0

Manufacturer's Serial No. 500.802 CRN _____ National Board No. N/A

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements in this report are correct and that all details of material, construction, and workmanship of this pressure vessel part conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1.

U or PRT Certificate of Authorization number 44,907 Expires March 6, 2022

Date March 8 2019 Name Score Projects Inc. Signed _____
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by ABSA of Edmonton Alberta Canada

have inspected the pressure vessel part described in this Manufacturer's Data Report on March 8 2019 and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel part in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel part described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date March 8 2019 Signed _____ Commissions NB 13345 D00004401
(Authorized Inspector) (National Board Authorized Inspector Commission number)