

Replacement

Certificate of Inspection Permit

Based on Last Inspection performed by an ABSA Safety Codes Officer

RISING STAR RESOURCES LTD

500 4 AVENUE SW SUITE 1000
CALGARY AB
T2P 2V6

Issue Date: 2017 May 31

Year Built: 1986

CRN: C4936.2

Serial #: 28159 A

Volume: 95.5 m³

Heating Surface:

Surface Area:

COMPANY CODE: N/A

DESCRIPTION: LPG BULLET

MANUFACTURER: WESTERN ROCK BIT CO LTD

Pressure Relief Valves

PART	MAX. ALLOWABLE PRESSURE	Temperature			VALVE ID	SETTING	CAPACITY	LOCATION
		Max	Min					
VESSEL	1,724 KPA	66	0	C	P106316	1,723 KPA	0	M3/MIN +15' TOP OF LPG BULL

Terms and Conditions:

Owner must ensure this vessel/boiler is designed, constructed, installed, operated, maintained and decommissioned in accordance with the Safety Codes Act and Regulations.

Owner must ensure an integrity assessment of this vessel/boiler is conducted after it is installed but prior to its operation. The integrity assessment shall be conducted by a person holding qualifications acceptable to the Administrator. Refer to ABSA publications AB-506, AB-512 and AB-515 for details about qualifications acceptable to the Administrator.

Owner must ensure this vessel/boiler has overpressure protection that is a relief valve that meets the requirements of the ASME Code, or other means accepted by the Administrator expressly for this item.

Owner must establish and maintain an integrity assessment program for this vessel/boiler. Refer to ABSA publication AB-506 for integrity assessment program requirements.

Owner must ensure this vessel/boiler, its overpressure protection devices, pressure gauges and regulating or controlling devices are maintained in good working order and operated safely.

Replacement Permit to take the place of the permit previously issued for this boiler/vessel. Owner must ensure this vessel/boiler is in safe operating condition.

NOTE: REQUIREMENTS OF THE SAFETY CODES ACT AND THE REGULATIONS ISSUED THEREUNDER:

An owner or vendor must notify the Administrator in writing when the pressure equipment identified on this certificate is sold or otherwise disposed of.

The owner or person in charge shall report all accidents involving Pressure Equipment to the district Safety Codes Officer immediately and shall send a full report in writing to the Administrator as required by the Act. No repairs or alterations may be made unless authorized by a Safety Codes Officer.

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

① 228762
Nov 26/86
Job # 21-2098

1. Manufactured and certified by Western Rock Bit Co. Ltd., 1026 Western Drive, Crossfield, Alta. TOM OSO
(Name and address of manufacturer)
2. Manufactured for Norcen Energy Resources Ltd., 715-5th Ave. S.W., Calgary, Alta T2P 2X6
(Name and address of purchaser)
3. Location of installation Gas Plant, West of the 6th Meridian.
(Name and address)
4. Type Horizontal Tank 28159 A C4936.214 8510-93D Rev.2 1986
(HORIZ. OR VERT. TANK) (Mfg.'s serial No.) (CRN) (Drawing No.) (Nat'l. Bd. No.) (Year built)
5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1. 1986
Year

6. Shell: SA516-70 8415" (21.37mm) Nil 9'0" (2743mm) 49' 8 1/2" (15145mm)
(Mat'l. (Spec. No., Grade)) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Diam. I.D. (ft. & in.)) (Length (overall) (ft. & in.))
7. Seams: Welded, Dbl. Butt Full 100% Welded, Dbl. Butt Partial 5
(Long. (Butted, Dbl., Sing., Lap, Butt)) (R.T. (Spot or Full)) (EH. (%)) (M.T. Temp. (F)) (Time (hr)) (Girth (Welded, Dbl., Sing., Lap, Butt)) (R.T. (Spot, Partial, or Full)) (No. of Courses)
8. Heads: (a) Mat'l. SA516-70 (b) Mat'l. SA516-70
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	End	.836" (21.23mm)	Nil			2:1 S.E.				Concave
(b)	End	.836" (21.23mm)	Nil			2:1 S.E.				Concave

If removable, bolts used (describe other fastenings) _____
(Mat'l. Spec. No., Gr., Size, No.)
9. MAWP 250 Psi (1724 Kpa) psi at max. temp. 150°F (66°C) °F
Min. temp. (when less than -20°F) _____ °F. Hydro., pneu., or comb. test pressure 375 Psi (2586 Kpa) psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No	Diam or Size	Type	Mat'l	Nom Thk	Reinforcement Mat'l	How Attached	Location
Liquid Out	1	4 NPS	RFWN	SA106B & SA105	Std	SA516-70	Welded	
Liquid In	1	3 NPS	RFWN	SA106B & SA105	Std	SA516-70	Welded	
Vapour	1	3 NPS	RFWN	SA106B & SA105	Std	SA516-70	Welded	
Continued on U-4 Form.								

11. Supports: Skirt No Lugs No Legs No Other 2 Saddles Attached Shells, Welded
(Yes or no) (No.) (No.) (No.) (Description) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: _____
(Name of part, item number, Mfg.'s name and identifying stamp)
25,300 USWG (95.5m³) Storage Vessel
Surface Area = 1647 sq.ft. (153m²)
Heads Formed to UCS-79d

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 13-551 expires July 19, 1989.
Date 26/11/86 Co. name Western Rock Bit Co. Ltd. Signed _____ (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Western Rock Bit Co. Ltd. at 1026 Western Drive, Crossfield, Alta.
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Alberta and employed by Provincial Government.
have inspected the component described in this Manufacturer's Data Report on Nov. 26, 1986, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his 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 Nov. 26/86 Signed _____ (Authorized Inspector) Commissions alt (Nat'l Board (incl. endorsements), State, Prov and No.)

