

**C.V.I.C.S.**  
**Vessel Inspection Report**  
for  
**Alliance Engineering & Inspection Ltd. (Rio Alta Explorations)**

Equip. Location: 15-36-65-4W6 Equip. #: \_\_\_\_\_ Equip. Description: Dehy Tower  
Service : Gas Date of Inspection: 2001.05.10 & 11 Next Inspection Date: \_\_\_\_\_  
Registration #: A2669283, CRN #: K-1401.2, Serial #: LS3944  
Standard Inspected Under: CSA B51, ✓; ASME Sec. VIII Div. I, ✓; Other, \_\_\_\_\_  
Type of Inspection: External ✓; Internal ✓; VT ✓; UT \_\_\_\_\_; RT \_\_\_\_\_; MT \_\_\_\_\_; PT \_\_\_\_\_;  
HT \_\_\_\_\_; LT \_\_\_\_\_; Other \_\_\_\_\_  
Reason for Inspection : Routine \_\_\_\_\_; Scheduled ✓; Unscheduled \_\_\_\_\_

**GENERAL :**

Code : UM \_\_\_\_\_; U ✓ ;  
MAWP : PSI 1150 ; kPa 7929 ; at MAWT : 150°F / 66°C ; Capacity \_\_\_\_\_  
Vessel has Manway : ..... Yes ✓ ; No \_\_\_\_\_  
Nozzle / Manway Repads T. T. holes; Leakage Evident : Yes \_\_\_\_\_ ; No ✓ .  
Internal Random Visual Shell / Nozzle Welds Condition : Good ✓ ; Fair \_\_\_\_\_ ; Poor \_\_\_\_\_ ; Failure \_\_\_\_\_  
External Random Visual Shell / Nozzle Welds Condition : Good ✓ ; Fair \_\_\_\_\_ ; Poor \_\_\_\_\_ ; Failure \_\_\_\_\_  
Internal Random Visual Shell Condition : ..... Good ✓ ; Fair \_\_\_\_\_ ; Poor \_\_\_\_\_ ; Failure \_\_\_\_\_  
External Random Visual Shell Condition : ..... Good ✓ ; Fair \_\_\_\_\_ ; Poor \_\_\_\_\_ ; Failure \_\_\_\_\_  
Shell Material : SA516-70N ; Head Material : Top SA516-70N , Bottom SA516-70N .  
Internally Coated : ..... Yes \_\_\_\_\_ ; No ✓ .  
Coating Condition if applicable: ..... Good \_\_\_\_\_ ; Fair \_\_\_\_\_ ; Poor \_\_\_\_\_ ; Failure \_\_\_\_\_ ; N/A ✓ .  
Internally Cladded / Strip Lined : ..... Yes \_\_\_\_\_ ; No ✓ ; Material : \_\_\_\_\_  
Cladding Condition if applicable: ..... Good \_\_\_\_\_ ; Fair \_\_\_\_\_ ; Poor \_\_\_\_\_ ; Failure \_\_\_\_\_ ; N/A ✓ .  
Number of Internal Anodes : n/a ; Percentage of Anodes Remaining: n/a .  
Foundation Condition : ..... Good ✓ ; Fair \_\_\_\_\_ ; Poor \_\_\_\_\_ ; Failure \_\_\_\_\_  
Cathodic Protection Evident : ..... Yes \_\_\_\_\_ ; No ✓ ; Unknown \_\_\_\_\_  
Number of Safety Devices : \_\_\_\_\_ ; ID #s : \_\_\_\_\_ , \_\_\_\_\_ ; Inlet Sizes : \_\_\_\_\_ ; CRN #s : \_\_\_\_\_  
Setting : PSI \_\_\_\_\_ , \_\_\_\_\_ ; / kPa \_\_\_\_\_ , \_\_\_\_\_ ; Serial #s : \_\_\_\_\_ , \_\_\_\_\_ ; Codes : \_\_\_\_\_  
Capacity : USGM \_\_\_\_\_ , \_\_\_\_\_ , SCFM \_\_\_\_\_ , \_\_\_\_\_ , PPHS \_\_\_\_\_ , \_\_\_\_\_  
Last PSV Service Date : \_\_\_\_\_

**REMARKS :** Additional vessel data : Vessel manufacture NATCO, year fabricated 1990; RT1; HT; shell nominal thickness 2.25", head nominal thickness 2.226"; corrosion allowance 0.0625".  
UT survey was done earlier this year and Rio Alto Exploration has the results on file.  
External: Tower is insulated c/w cladding excluding the top head and the shell section in the building.  
External coating is in satisfactory condition. Skirt bolts are satisfactory. Skirt cleanliness is satisfactory.  
The PSV has been set out for servicing.  
Internal: The tower was steamed out over night causing the product in the tower to bake onto the trays.  
The coil located in the bottom head of the tower is in satisfactory condition. There is only a general mild corrosion evident, at the time of inspection.  
The bottom and top heads as well as the shell is in satisfactory condition.  
The bottom tray is above the coil is in satisfactory condition.  
The demister above the lower manway is in poor to failed condition.  
The demister above the top manway is plugged off.  
The top five trays of the nine trays, caps are stuck in the closed position, due to the steaming process. The remaining trays the caps are sticking.  
The chimney tray is in satisfactory condition. There is a water level at this tray level.  
All of the down comer and tray clips / hardware is in place at the time of inspection.

**TESTING :**

Hydrostatic \_\_\_\_\_ ; Pneumatic \_\_\_\_\_ . Shell / Tube Test Pressure \_\_\_\_\_ ; Repads Test Pressure \_\_\_\_\_  
Test : Pass \_\_\_\_\_ ; Fail \_\_\_\_\_ ; N / A ✓ .

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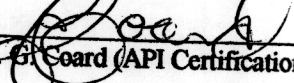
Equip. Location: 15-36-65-4W6 Equip. #: \_\_\_\_\_ Equip. Description: Dehy Tower

**RECOMMENDATIONS:** Prior to recommissioning the top demister should be cleaned and reinstalled; the bottom demister be replaced or removed if not require in the process; all tray caps to be loosened / freed up.

**DO NOT STEAM THE TOWER THE NEXT SCHEDULE TA PRIOR TO INSPECTION, TO AVOID THE TRAY CAPS BEING BAKED ON.**

**STATUS :**

Suitable for further service : ..... Yes  ; No  .  
Repairs required : ..... Yes  ; No  ; N/A  .  
Repairs completed : ..... Yes  ; No  ; N/A  .  
Attached Reports : ..... Yes  ; No  ; N/A  .

Inspected By :   
R. G. Coard (API Certification # 902)