

*Handwritten:* RPL Jan 6. 2011  
ESR/RN335831.

*Handwritten:* 5 YR VE/UT INTERVAL

**STATIC EQUIPMENT INSPECTION REPORT - Exhibit # 300**

COMPANY: NAL Resources SIGMA JOB #: \_\_\_\_\_

District: SLBU Facility: Cheddarville Lsd 06-07-037-06W5M Skid: \_\_\_\_\_

Item Insp.: LPG Bullet

**VESSEL DATA**

Equip#: \_\_\_\_\_ Serial #: 2644A ABSA#: 103469 CRN #: B477.213

Manuf: Western Rock Bit Code/Div.: \_\_\_\_\_ Para: \_\_\_\_\_ Code Stamp: \_\_\_\_\_

Yr. Built: 1972 Size: 84" Dia  Actual  Est. Insulated: \_\_\_\_\_

Service: Sweet PWHT: Yes R.T.: RT-1 Repairs: \_\_\_\_\_

**Nominal Thickness & Material**

Head: 6.4mm Material: SA-517-F C.A. \_\_\_\_\_ Reasons: \_\_\_\_\_

Head: \_\_\_\_\_

Shell: 9.9mm SA-517-F Status:  IN SERVICE

Shell: \_\_\_\_\_  OUT OF SERVICE

Channel HD: \_\_\_\_\_ Manway:  YES  NO

Channel SH: \_\_\_\_\_

Boot HD: \_\_\_\_\_

Boot SH: \_\_\_\_\_

MAWP Shell: 265  Psi  kPa Temp: 115  F  C

MAWP Tube: \_\_\_\_\_  Psi  kPa Temp: \_\_\_\_\_  F  C

Comments \_\_\_\_\_

**PSV INFORMATION**

Location: Vessel  S Vessel  S **S = SHELL SIDE**

Manufacturer: REGO  T REGO  T **T = TUBE SIDE**

Serial #: NB# H460A253  P NB# H460A253  P **P = PIPING**

PSV #: \_\_\_\_\_

CRN: \_\_\_\_\_ Inlet Isolation valves sealed open:

Model: \_\_\_\_\_  YES  NO

Set Press: 265 PSI 265 PSI Outlet Isolation valves sealed open:

Capacity: 9839 SCFM 9839 SCFM  YES  NO

Status: \_\_\_\_\_

Inlet Size (mm): \_\_\_\_\_

Outlet Size (mm): \_\_\_\_\_

Conn Type (F/T): \_\_\_\_\_

Serviced By: ED'S Valve ED'S Valve

Last Service Date: 2002 2002

Inspection Requested By: \_\_\_\_\_ Inspection Date: 14-May-10

Inspection Performed By: Mark Copithorne Certification #: 000159

Chief Inspector: Darcy Rolston Certification #: 000202

*Handwritten:* RN# 336208

# EXTERNAL VISUAL INSPECTION

ABSA#:

103469

SIGMA JOB #:

## Remedial Action

- No Action Required
- Paint Repairs
- Repair Weld - S.R.
- Repair Weld - No S.R.
- Grind Out
- See Comments

## Access & Coverage

- Poor Cleaning
- Partial Int. Inspection
- External Inspection
- NDE Inspection
  - MT  UT
  - RT  BH
  - PT  Other \_\_\_\_\_

## Other

- See Comments
- Ground Cable  Y  N
- Ladders/Handrail/  
Walkway Damage
- Nameplate Secure  N
- Nameplate Legible  N
- See Attached Pictures

## Shell

 TOP  
 BOTTOM

- Good Condition
- External Corr.
- Pitted - Light
- Pitted - Severe
- Scaled - Light
- Scaled - Heavy
- Blistered
- N/A Insulated

## Nozzles

- Good Condition
- Cracked
- Scaled
- Plugged
- Poor Welding
- Leaking
- Seal Face Corrosion
- Bolts Missing/Loose/  
Damage
- Partial Int. Inspection

## External Protection

- Good Condition
- Fireproofing Cracked
- Insulation Damaged
- Paint Deteriorated
- Corrosion Under  
Insulation (CUI)
- Asbestos  YES  
 NO
- Insulated  YES  
 NO

## Welds

- Good Condition
- Corroded
- Cracked
- Broken
- Poor Quality

## Supports

- Good Condition
- Distorted
- Cracked
- Broken
- Poor Installation
- Bolts Missing/  
Loose/Damaged
- Support Ring  
Damaged
- N/A

## Heads

 TOP  
 NORTH  
 WEST

- Good Condition
- External Corrosion
- Pitted - Light
- Pitted - Severe
- Scaled - Light
- Scaled - Heavy
- Blistered

## Heads

 BTM  
 SOUTH  
 EAST

- Good Condition
- External Corrosion
- Pitted - Light
- Pitted - Severe
- Scaled - Light
- Scaled - Heavy
- Blistered

## Pressure Gauge

- Glass Intact
  - YES
  - NO
- Within Operating Limits
  - YES
  - NO
- Obvious Leaks
  - YES
  - NO

## Vessel Repad

- N/A
- Vent Holes
  - 1
  - 2
- Plugged
  - YES
  - NO

## PIPING - PSV

- Good Condition
- External Corrosion
- Pitted
- Supported
- Welded
- Threaded Fittings
- Deadlegs

## PIPING - INLET

- Good Condition
- External Corrosion
- Pitted
- Supported
- Welded
- Threaded Fittings
- Deadlegs

## PIPING - OUTLET/DRAIN

- Good Condition
- External Corrosion
- Pitted
- Supported
- Welded
- Threaded Fittings
- Deadlegs

# EXTERNAL VISUAL INSPECTION

ABSA #: 103469 SIGMA JOB#: \_\_\_\_\_

## OBSERVATIONS:

- Vessel is in Good Condition
- API 510 External Inspection confirmed the equipment is fit for continued service
- NOT FIT FOR SERVICE, DETAILS BELOW

-Overall vessel is in acceptable condition; no deformation was noted.  
-The vessel timbers are partially collapsed under the landing gear.  
-The hydraulic pumps are all hooked up. This creates the potential for leaks through the seals.  
-There is two additional, 1" PSV's connected to the inlet piping that vent to the atmosphere. There are isolation valves between the vessel and these PSV's. This PSV's give primary protection from the feed stock over pressurization.  
-The PSV's on the piping are supported by a tripod stand.  
-The 3" shell PSV's are recessed into the shell. The rear PSV has a tag indicating it was serviced in 2002 by Ed's Valve. The PSV is set at 265 psi with a capacity of 9839 scfm. This PSV has a rubber cap and a steel lid to protect it. The front PSV is also recessed but has no cover or cap. This creates the potential for debris, rust and water to fill the PSV most of the year.  
-Vessel is trailer mounted and is still on wheels. The rubber is inflated but several cracks were noted in the rubber.  
-The load line off the trailer utilizes a 3" aluminum camlock. This does not meet NAL Resources' piping specs. (unit holds 100psi)  
-There is no envirobox.

## RECOMMENDATIONS:

1. Service/replace the PSV's on the shell of the vessel. Ensure no water can accumulate.

2. BULLET REQUIRES CONVERSION FROM TRAILER MOUNTED TO SKID MOUNTED TO BE IN COMPLIANCE. OPERATIONS NOTIFIED & ESTIMATE FOR CONVERSION BY MAXFIELD NOV 17, 2010 SENT TO OPERATIONS. OPERATION REVIEWING TO DIVERT LIQUIDS TO ANOTHER FACILITY IN 2011

3. UT SURVEY TO COMPLETED.

PICTURES:



PICTURES:

