Canadian Natural Resources Limited GENERAL PRESSURE VESSEL INFORMATION Job # 10.110421														
District: Ft. St. Joh	Skid No.													
Facility: Rigel Co	Location (LSD): d-75-A/94-A-15 W6M													
Vessel Name Equip	ment Number: Inlet	t Separator												
	Orientation: Vertical													
Status: In Ser	vice		Regulatory Inspection											
PRESSURE VESSEL NAMEPLATE DATA														
"A" or "G" o	r "S" (Sask.) or BC R	CRN Number:												
	A0487531	N 0715.213												
Vessel serial number	r: VS-11359	Size: 36.0 in. X 9.0 ft.												
Shell thickness: 41.2	2mm	Shell material: not stated												
Head thickness: 39.7	7mm	Head material: not stated												
Tube wall thickness:		Tube material:												
Tube diameter:				Tube length:										
Channel thickness:				Channel material:										
Design pressure	Shell: 1440 PSI			Operating pressure		Shell:								
	Tubes:	Tubes:												
Design Temp.	Shell: 100 F			Operating temp	erature	Shell:								
	Tubes:					Tubes:								
X-ray: RT 1	l		Heat treatment: HT											
Code parameters: As	SME VIII, Div 1	Coated: no												
Manufacturer: Argo		Year built: 2003												
Corrosion allowance			Man way: Yes											
	P	RESSURE SAFETY	VALV	-	E DATA									
PSV Tag #	Manufacture Model #			Serial#		essure	Capacity	Service						
						Pa)	(scfm)	Date						
	Farris	26НА13-120/S7	449517-1-A10		1440 PSI		21951	No Tag						
CRN#	Service By	Block Valve		Location	Size		Code Stamp							
OG2369.5C	No tag	No		Top head	2 x 3		UV/NB							
	SER	VICE CONDITIONS	S-IND	ICATE ALL TH	AT APPL	Y								
Sweet	Sour X			Oil			Gas X							
Amine	LPG			Condensate X		Air		Glycol						
Other (Describe):														
Inspection Interval PSV Service Interval														
		pector following guidelines	s of CNR	_		m)								
Reports reviewed and acc Mechanical Integri					D	ate								

External Inspection Items	G	F	Р	N/A	Comments
	U	1.	Г	1 \ /A	
Insulation Verify sealed around manways,					Not insulated.
nozzles, no damage present, and there is no				X	
egress of moisture.					
External Condition Assess paint condition,					Paint is blistered with corrosion.
areas peeling, record any corrosion, damage,	N/				No signs of damage or distortion.
etc (record location, size and depth of	X				
corrosion or damage)					
Leakage Record any leakage at flanges,					No signs of leaking.
threaded joints, weep holes on repads, etc.	X				
Saddle/skirt Assess condition of paint, fire					Skirt is welded to lower head.
protection, and concrete. Look for corrosion,					No signs of cracking or leaking at welds.
buckling, dents, etc. Look at vessel surface					No signs of buckling
area near supports. Verify no signs of leakage	X				
at attachment to vessel and attachment welds					
are acceptable. Ground wire attached?					Vessel grounded through the skid package.
Anchor Bolts Hammer tap to ensure secure.					Secured.
Look for cracking in treads or signs of	X				Secured.
deformation.	1				
Concrete foundation Check for cracks,					None.
spalling, etc.				X	TVOIC.
Ladder / Platform Describe general					None.
condition, ensure support is secure to vessel,				X	None.
and describe any hazards.				Λ.	
Nozzle Assess paint, look for leakage, and					Studs are fully engaged.
ensure stud threads are fully engaged. Record					Threaded fittings are secure.
any damage, deflection, etc. Are nozzles		X			Paint is blistered with surface corrosion.
gusseted?					Faint is distered with surface corrosion.
Gauges Ensure gauges are visible, working,					Liquid level gauge is clear and working.
	3 7				Liquid level gauge is clear and working.
no leakage, and suitable for range of MAWP/	X				
Temp.					
External Piping Ensure pipe is well					Paint is blistered with surface corrosion.
supported. All clamps, supports, shoes, etc. in					Well supported.
place. Look for evidence of structural		X			No signs of deflection.
overload, deflection, etc. Paint condition,					No leaks.
external corrosion?					
Valving Ensure no leaks are visible. Valves					Well supported – no leaks.
are properly supported and chained if	X				
necessary.					
PSV Ensure PSV is set at pressure at or below					Located on top head.
that of vessel. Discharge piping is same size as					Set pressure is below MAWP.
inlet to valve and is properly supported and		X			Seal intact.
routed. Ensure no block valves between PSV					No block valve.
and vessel or if there are they are locked open.					
NDE methods Was UT/ MPI done on vessel	X				Ultrasonic corrosion survey carried out – no metal thickness
(MI coordinator to review results)					detected below nominal minus corrosion allowance.

Recommendations or corrective actions: Vessel is Fit for Service or describe corrective actions required) (MIC to review corrective actions with Operations, discuss with Chief Inspector where necessary, and get remedial action implemented)

Recommendations: 1. Remove corrosion and paint.

Summary: This vessel is in good condition, visual external and ultrasonic thickness inspection carried out – no metal thickness detected below nominal minus corrosion allowance.

Long term corrosion rate based on greatest thickness loss – no corrosion rate to assess.

Vessel is fit for service.

Inspected By: Mike Dutcher Date: August 07, 2011





LSD Overview





Overview Data Plate





PSV PSV Data Plate

