☐ blistered

☐ blistered

### **Static Equipment Inspection Report**

Item Inspected:	V-102 Pig	ging Separator	PSV #:	
Location:	Redcliff S	outh Compressor Station	Service Date:	
ABSA #:	A0266416	51 X	Set Pressure:	
CRN#:	K-1666.2		Capacity:	
Serial #:	2059.90		Serial #:	
SAP #:				
IOR / EMCW #:	V102			
Damage Code:			MAWP: (shell)	259psi @ 140°F
SUMMIT Job#:			MAWP: (tube)	@ °
Inspection reques Inspection perfor Chief Inspector &	med by:	McFee  Rod McFee  Maria Savulescu  Cert. #: And Rot	herford py#31 Ins	pection Interval:  The state of
Remedial Action		Access & Coverage	Other	Shell  top bottom
□ no action requir  □ coating/lining re □ coating / lining □ repair weld – S. □ repair weld – no □ ground out □ replaced □ monitor □ see notes	epairs R.	<ul> <li>□ poor cleaning</li> <li>✓ adequately cleaned</li> <li>✓ internal inspection</li> <li>□ partial int inspection</li> <li>✓ external inspection</li> <li>✓ NDE inspection</li> <li>□ internal visual + NDE</li> <li>□ installation inspection</li> </ul>		good condition □ external corrosion □ internal corrosion □ pitted - light □ pitted - severe
Nozzles		<b>External Protection</b>	Welds	Supports
good condition internal corrosic cracked scaled plugged poor welding leaking	on		good condition corroded cracked broken poor quality	
Heads ☐ top ☑ right		Heads □ bottom ✓ left	Internal	Anodes
good condition cexternal corrosic internal corrosic pitted – light pitted – severe scaled – light scaled – heavy			☐ good condition ☐ blistered — light ☐ blistered — severe ☐ disbonded ☐ chipped ☑ holidays ☐ mechanical damage	☐ good condition ☐ dirty ☐ consumed 20% ☐ consumed 50% ☐ consumed 80%+ ☐ missing

☐ missing

## Static Equipment Inspection Report (cont'd)

Demister Screen	Heating Coil	Manways		Trays	
☐ good condition ☐ dirty ☐ dislodged ☐ broken ☐ missing ☐ tie-downs missing	☐ good condition ☐ corrosion ☐ cracked ☐ scaled ☐ worn ☐ loose ☐ poor installation			☐ good condition ☐ collapsed ☐ distorted (bent) ☐ loose ☐ missing ☐ wear ☐ corrosion ☐ poor installation	
Firetubes	Tube Bundle	Tubeshee	t	Channel Head	
☐ good condition ☐ cracked ☐ corrosion ☐ scaled ☐ heat impinged ☐ coated ☐ wear	☐ good condition ☐ pitted — light ☐ pitted — severe ☐ scaled ☐ plugged ☐ damaged ☐ wear ☐ erosion	☐ good co ☐ general ☐ pitted — ☐ pitted — ☐ erosion ☐ damage	corrosion - light - severe	☐ good condition ☐ general corrosion ☐ pitted — light ☐ pitted — severe ☐ erosion ☐ scaled ☐ coated	
Refractory	Tube	Drum	□ mud □ steam	Floor	
☐ good condition ☐ cracked (minor) ☐ spalled ☐ missing ☐ damaged ☐ badly cracked  Comments:	☐ good condition ☐ external corrosion ☐ internal corrosion ☐ thinning ☐ bulged ☐ heat impinged ☐ distorted ☐ erosion	_	ed internals I corrosion g	☐ good condition ☐ external corrosion ☐ internal corrosion ☐ pitted – light ☐ pitted - severe ☐ edge settlement ☐ weld cracking ☐ sludge ☐ previous repairs	
External Inspection  The Separator was external corrosion  The Supports (Well  The (Shell and the gouges, bulges) we  The (welds (circ see  All the nozzles, to condition, no leaks  (All the associated to No Ground Cable)	ams, long seams) appeared he manway, the liquid level were noted at the time of it piping was removed at the Connection was found attack.	th paint d red to be good co to be in g vel assen inspection time of in ched to th	amage.) in good condition. ondition, no mechagood condition.) ably, couplings apole. aspection.) the Separator.	) nanical damage (dents,	

#### Static Equipment Inspection Report (cont'd)

## (Internal) Inspection

- The Separator was internally coated. The coating appeared to be in general good condition, well bonded. Very small holidays were present on the manway inside rim.)
- The shell and the heads appeared to be in good condition.
- (All the internal attachments (vortex breaker, demister pad, inlet deflector plate) appeared to be in good condition.)
- The nozzles and couplings appeared-to-be in good condition, clean, not plugged.)

The Peak in Integrity and Quality Inspection

# **Static Equipment Inspection Report**

(/// application) and the control of	2700.5	- 1440 - 001344	WYO.			51.00			
Client:	In	perial Oil	Resource	S		Inspection Date: November 20, 20			
Facility:	Re	Redcliff South Compressor			LSD: 08-23-012-04W4				
Equipment:	Pi	gging Sepa	rator A#0	2664161					
Taabnisia	n a /T w	cmootowa				C4:C-	. 4		
Technicia	115/11	spectors		A DI 510	Certifications				
Maria Savulescu		1-1-1-		API 510		ABSA	PESL	CGSB Lev.II UT	
Technique:  ☐ UT (thickness) ☐ MPI (dry powder) ☐ UT (shearwave) ☐ MPI (wet fluorescent) ☐ UT (c-scan) ☐ MPI (wet visible) ☐ UT (TOFD) ☐ UT (phased array)				☐ LPI (visible aqueous) ☐ LPI (visible post emulsifiable) ☐ LPI (visible solvent removable) ☐ LPI (fluorescent water washable) ☐ LPI (fluorescent post emulsifiable) ☐ LPI (fluorescent solvent removable) ☐ LPI (fluorescent solvent removable) ☐ LPI (fluorescent solvent removable) ☐ Visual (external)					
Equipment:				Consumat	les.				
Ultrasonic  □ DMS  ☑ DMS-2  □ USN-52L  □ USN-58L	Magnetic Particle  ☐ AC Yoke ☐ DC Yoke ☐ Blacklight ☐ Permanent Yoke			Consumables:         Magnetic Particle       Liquid Penetrant         □ Magnaflux 7HF (black)       □ SKL-WP Penetrant         □ Magnaflux WCP-2 Contrast Paint       □ SKD-S2 Developer         □ Magnaflux 14AM Fluorescent Bath       □ SKC-S Cleaner         □ Red Oxide Powder       □ DP-51 Penetrant         □ Grey Oxide Powder       □ DR-62 Developer					
☐ Other:				Other:					
Ultrasonic Trans	sduce	ere.							
CONTRACTOR OF THE PARTY OF THE	ype	Frequency	Diameter	Angle	Code	e 1:	Custom	er Spec	
FH2E D	Dual	5MHz	0.375	0deg	Code	100000000000000000000000000000000000000		All and a second a	
						bration:	Stepwed		
					Sens	itivity:	80%FSI	H	
Magnetic Particl	le•								
Material:	ic.				Code	e 1 ·	1		
Surface:					_	Criteria			
Technique:					AC Yoke				
Lighting:						bration:			
		S							
C	510 X	71 1 T .	1 10	1			•		
					n wer	e perforr	ned on t	he Pigging Separato	
A#02664161 at R									
For details of the	inspe	ction please	see the atta	ched report.					
Signature:/	Λ	In				Date:	Febr	uary 20, 2009	