

PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 03-06-049-18W5 **Date:** 2013-03-06 **SAP Equipment ID** 66177219

VESSEL STATIC DATA									
Plant: MINEHEAD				OP Unit: FH01				System:	
Prov. Insp . #:				CRN:				Equip Tag#: 66177219	
Equipment Description: FLARE STACK				Serial #: 11170					
Manufacturer: Tornado Technologies				Vessel Class: vessel					
Internal Access: No				Description:				Year Built: 2011	
MAWP: 0 kpa				At Temp 38 C				MDMT: C	
Code:				RT: None				PWHT: No	
Diameter: 324 mm		Length: 28956 mm		(T/T): mm		OAL: mm		Orientation: Vertical	
SHELL		Mat'l: SA-106 B		Thickness: 0 mm		Corr Allowance: 0 mm			
HEAD		Mat'l: Unknown		Thickness: 0 mm		Corr Allowance: 0 mm			
Nozzle		Mat'l:		Thickness:		Corr Allowance:			
Internal Coating: No				Internal Clad: No				Capacity: m3	
Manway: No				Inspection Port: No				Skirt Legs Saddle	
Nozzle Rating: lb ANSI				Painted: No				Insulated: No	

PROCESS DATA	
Production Description:	Sweet Yes Sour:
Operating Pressure kpa	Operating Temp: C

PSV STATIC DATA								
Serial No.	Location	Size(mm)		Set Press (kPa)	Capacity Imperial SCFM	Manufacturer	Model	Last Service
		Inlet	Outlet					
		0.00	0.00	0	SCFM			

INSPECTION SUMMARY

FIT FOR SERVICE

RECOMMENDATIONS

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NONCONFORMANCES/INSPECTION DEFICIENCIES

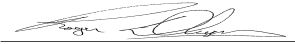
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INSPECTION PLANNING

Inspection Strategy	Availability	Inspection Interval
Inspection Date 2013/01/22	Date of Last Inspect	Date of Next Insp

REPORT CERTIFICATION

The SignatureS below certify that inspections/tests have been completed in accordance with the identified inspection strategy and that the specified equipment is considered fit for service until the date of next inspection.

Inspected by	Roger Dlugosz		Cert #	000566	Date	2013/01/22
Reviewed and Approved by					Date	
Criticality Assessment Rerun			Inspection Planning Rerun			
Assessed Next Inspection Date						

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DETAILED INSPECTION VISUAL EXTERNAL

ID	Description	Condition	Location	NCR	Comments
V1	General Other (Please Explain)	Accept			VERY GOOD CONDITION
V2	General Corrosion	Accept			NO EXT CORROSION
V3	General Leaks	Accept			NO LEAKS/WEEPS
V4	Vibration	N/A			
V5	Dissimilar Flange Rating	N/A			
V6	Ladder/Stairway	N/A			
V7	Heads	N/A			
V8	Guy Wires	Accept			VELL MARKED, SECURE FLARE
V9	Electrical Ground	N/A			
V10	Painted Inactive Corrosion	N/A			
V11	Coating/Painting	Accept			BLACK, VERY GOOD CONDITION
V12	Expansion Joint or Bellows	N/A			
V13	Gauge/Site Glass	N/A			
V14	Shell	Accept			NO DAMAGE, PAINT GOOD
V15	Jacket	N/A			
V21	Support Other (Please explain)	Accept			BASE IN GOOD CONDITION
V22	Foundation	N/A			
V23	Anchor Bolts	Accept			SECURE/SUPPORT STACK
V24	Saddle/Skirt	Accept			GOOD CONDITION
V25	Davit	Accept			GOOD CONDITION
V26	Fireproofing	N/A			
V31	Connections Other (Please explain)	Accept			FLANGED CONNECTIONS TO FIRE/IGNIGHTER
V32	Small Branches	N/A			
V33	Nozzles	Accept			FLANGED CONNECTIONS, FULLY ENGAGED, NO SHORTBOLING
V34	Manways	N/A			
V35	Reinforcing Pads	N/A			
V36	Inadequate Thread Engagement	Accept			FULLY ENGAGED
V37	Bolting	Accept			NO SHORTBOLTING
V38	Flanges	Accept			NO DAMAGE
V39	Leak Clamps	N/A			
V41	Insulation Other (Please explain)	N/A			
V42	Damage	Accept			NO EXT DAMAGE
V43	Penetrations	N/A			
V44	Insulation Jacket	N/A			
V45	Banding	N/A			
V46	Seals/Joints	N/A			
V51	Relief Devices Other (Please explain)	N/A			OPEN TO ATM
V52	Corrosion	Accept			NO EXT CORROSION
V53	Leaks	Accept			NO LEAKS/WEEPS
V54	Restricted Inlet/Outlet	N/A			



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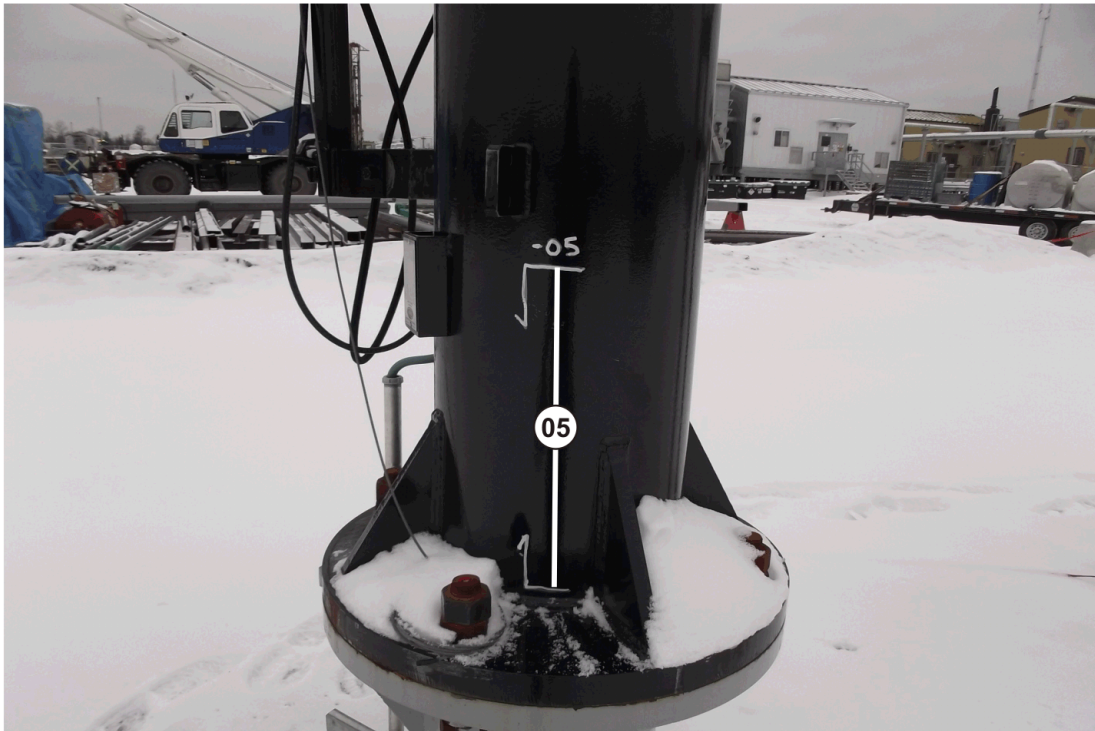
V55	Manual Operation Lever	N/A			
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DETAILED INSPECTION OTHER TECHNIQUES

ID	Location	Observation/Measurement	Acceptance Criteria	NCR	Comments

DETAILED INSPECTION UT THICKNESS

CML	Nom. Thickness	CURRENT READINGS	short term corr rate	long term corr rate	remaining half life	Survey Date	Comments
10 (Shell)	0.00	9.40	0.0000	0.0000	99.0	2013/01/22	
O5 (Shell)	0.00	9.73	0.0000	0.0000	99.0	2013/01/22	



OWNER: HUSKY

SERIAL # 11170

NOTES

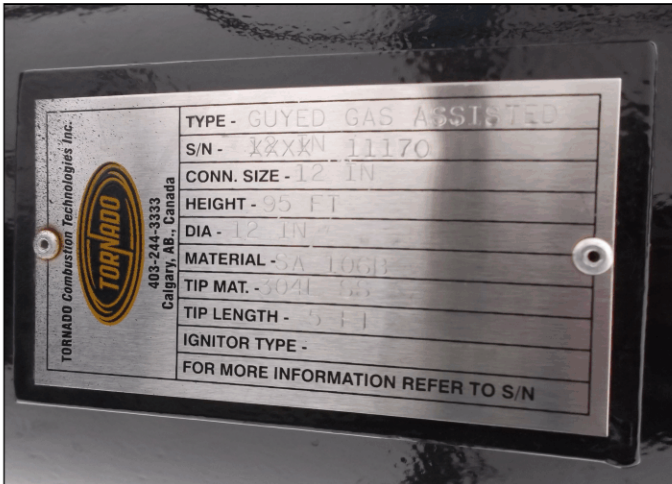
EQUIPMENT NAME: FLARE STACK

NB#

REGISTRATION #

OWNER ID

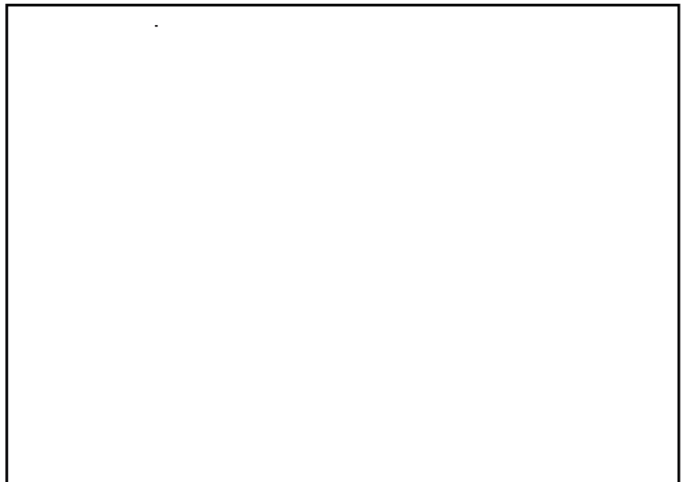
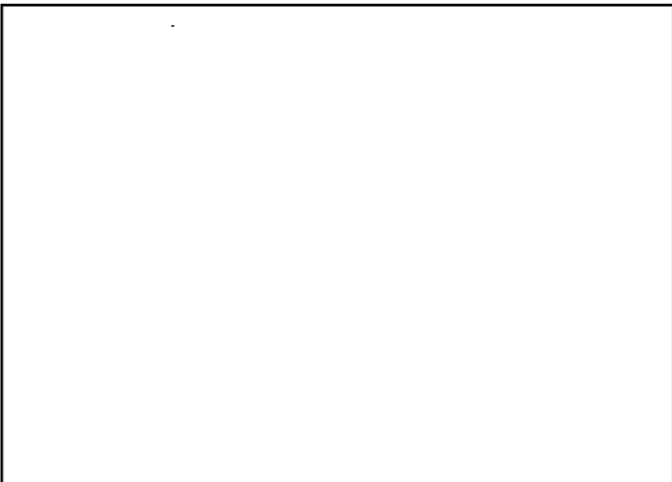
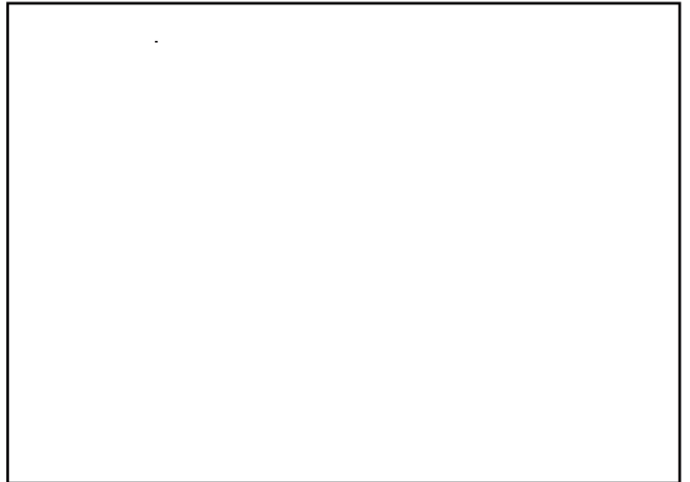
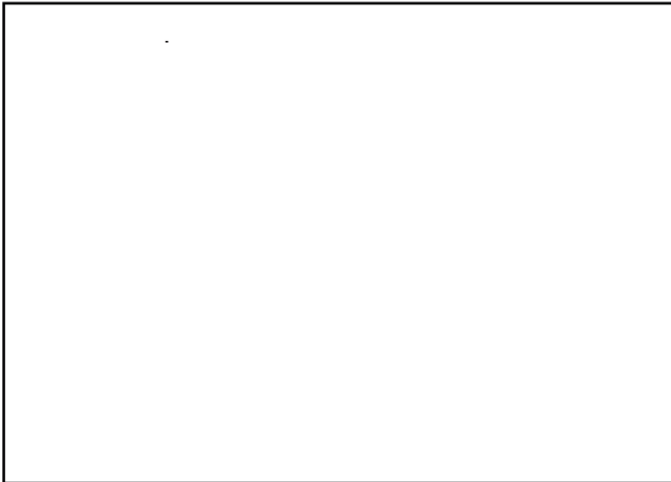
EQUIPMENT # 66177219



NAMEPLATE



OVERALL



OWNER: HUSKY		SERIAL # 11170	NOTES
EQUIPMENT NAME: FLARE STACK		NB#	
REGISTRATION #		OWNER ID	
EQUIPMENT # 66177219			