





Vessel Static Data:

Name:	Flare
A#:	N/A
Serial Number:	3235-0000
CRN:	N/A
LSD:	06-16-047-13 W5M
Location:	North Blackstone
CA:	N/A
Size:	508.00mm OD
MAWP:	N/A
Temp:	N/A
Head Material:	N/A
Head Nominal:	N/A
Shell Material:	SA-333-6
Shell Nominal:	N/A
Year Built:	2008
Manufacturer:	Pyramid Process
Tag#:	06-16BRA-1402

Notes:	
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 **PYRAMID PROCESS FABRICATORS**
NISKU, ALBERTA, CANADA

Company Name: **HUSKY OIL OPERATIONS LTD**

Location: **6-16-47-15 WSM** Serial #: **3235-0000**

Type of Stack: **FREESTANDING** Stack Material: **SA-333-GR 6**

Dia. of Stack: **6"** Stack Tip Material: **SA-312 TP316L**

Tag #: **[REDACTED]** Year Built: **2008**

For Information, Parts or Service
Call 1-866-955-2708
or www.pyramidfabricators.com

06-16BRA-1402



ULTRASONIC CORROSION SURVEY

Survey Name: HUSKY ENERGY

Report No.: 9878

Survey Date: 07/22/2016

LSD: 06-16-047-13W5 Dwg: 70 Vessel Number: Manufacturer: PYRAMID PROCESS Technician: D. TUCKER
Downhole LSD: Vessel Name: FLARE Serial Number: 3235-0000 Certification: CGSB / SNT-TC-1A
District Unit: NORTH BLACKSTONE Year Built: 2008 Shell MAWP KPA: 0 MAWT C: 0 UT I #17016
Location: FIELD Tag Number: 06-16BRA-1402 Tube MAWP KPA: 0 MAWT C: 0
Unit Name: NORTH BLACKSTONE CRN: Vessel CA: 0.0000

Band	Description		Baseline	Previous	Current	Next Inspection	Nominal	TMIN	ST Loss	LT Loss	Recommended
						Material	CA		MPY	MPY	Retirement
											Date
00	Upper - Shell	Ref	2016	10.5160	2016	10.5160	2017				
Shape	Cylindrical	Min		10.1850		10.1850	SA 333 - 6	0.0000			
OD	508	Avg		10.4390		10.4390					
Spec.	VIII Div 1										
						Comments:					
05	Lower - Shell	Ref	2016	9.8300	2016	9.8300	2017				
Shape	Cylindrical	Min		9.3470		9.3470	SA 333 - 6	0.0000			
OD	508	Avg		9.4740		9.4740					
Spec.	VIII Div 1										
						Comments:					

DATE:

July 20th / 2016

TECHNICIAN:

Dusty Tucker

ASSISTANT:

Bill Nash

Client Husky		LSD 6-16-47-13 WS		Item Band Location Shell											
Equipment Flare		Serial # / Manufacturer 3235-0000		Material /											
CRN /	A# /	# 06-16BRA-1402	Year Built 2008	OUTSIDE Diameter 20"											
DWG 70	Survey	Plant or Field (Circle) North Black Stone	PSIG / KPA /	F / C /	CA /	Type Pipe									
Comment /						Nominal Thickness /									

Pyramid Process Fabricators

OT: 5025-5027

*Stack Material: SA-333-GR6

Tip Material: SA-312-TP316L



COMMENTS

- 1) Cryogenic Service
- 2) Insulated
- 3) No Name Plate
- 4) Name Plate Illegible
- 5) No Access
- 6) Too Hot
- 7) Rough Surface
- 8) O.D. Pitting
- 9) I.D. Pitting
- 10) Pipe / Plate (Circle One)

Piping Types

1. 90° Nozzle	6. 360° Circ Pipe
2. 90° Pipe	7. Tee Nozzle
3. 45° Nozzle	8. Tee Pipe
4. 45° Pipe	9. Straight Nozzle
5. 360° Circ Nozzle	10. Straight Pipe

Head Types

1. ellipsoidal	5. toriconical
2. torispherical	6. flat
3. spherical	7. hemispherical
4. conical	

Common Materials

A 53-B	C 516-70
B 106-B	D 234-WPB

Ensure all information is recorded for vessel boots, when applicable.

PRESSURE VESSEL & COLUMN INSPECTION REPORT

Date: July 22nd / 2016 Equipment ID: 06-16 BRA-1402

Plant Asset # _____	Op Unit Equipment ID _____	System Asset Type _____	
Description <u>Flare</u>	Prov. Insp. # _____	Serial # <u>3235-0000</u>	
Manufacturer <u>Pyramid Process Fabricators</u>	CRN _____	Year Built <u>2008</u>	
MAWP _____	KPag _____ °C	MDMT _____ °C	
Code _____	Fluid Service _____	Sweet/Sour _____	PWHT _____
Internal Access _____	Insulated _____	Internal Coating _____	
Operating Pressure _____	KPag _____	Operating Temp _____ °C	

PSV DATA

PSV ID #	Location	Size		Set Pressure	Capacity SCFM / Lbs/Hr / GPM	Manufacturer	Model	Last Service
		Inlet	Outlet					

INSPECTION SUMMARY

<u>UT/VE Performed</u>	<u>No Associated PSV</u>
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RECOMMENDATIONS

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NONCONFORMANCES / INSPECTION DEFICIENCIES

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INSPECTION PLANNING

Inspection Strategy _____	Availability _____	Inspection Interval _____
Inspection Date _____	Date of Last Inspect _____	Date of Next Inspect _____

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 _____	Date _____
Reviewed and Approved by _____	Date _____
Criticality Assessment Rerun _____	Inspection Planning Rerun _____
Assessed Next Inspection Date _____	

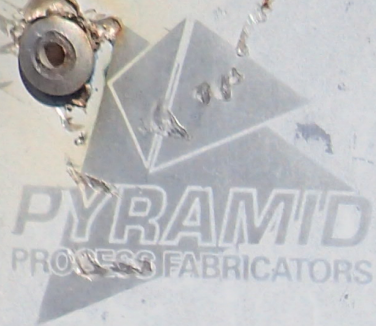
PRESSURE VESSEL & COLUMN INSPECTION REPORT

Date:

Equipment ID:

DETAILED INSPECTION VISUAL EXTERNAL

ID	Description	Condition			Location	NCR	Comments
		N/A	No	Good			
V1	General Other (Please Explain)			✓			
V2	General Corrosion						
V3	General Leaks						
V4	Vibration						
V5	Dissimilar Flange Rating						
V6	Ladder/Stairway						
V7	Heads						
V8	Guy Wires						
V9	Electrical Ground						
V10	Painted Inactive Corrosion						
V11	Coating/Painting						
V12	Expansion Joint or Bellows						
V13	Gauge/Site Glass						
V14	Shell						
V15	Jacket						
V21	Support Other (Please explain)						
V22	Foundation						
V23	Anchor Bolts						
V24	Saddle/Skirt						
V25	Davit						
V26	Fireproofing						
V31	Connections Other (Please explain)						
V32	Small Branches						
V33	Nozzles						
V34	Manways						
V35	Reinforcing Pads						
V36	Inadequate Thread Engagement						
V37	Bolting						
V38	Flanges						
V39	Leak Clamps						
V41	Insulation Other (Please explain)						
V42	Damage						
V43	Penetrations						
V44	Insulation Jacket						
V45	Banding						
V46	Seals/Joints						
V51	Relief Devices Other (Please explain)						
V52	Corrosion						
V53	Leaks						
V54	Restricted Inlet/Outlet						
V55	Manual Operation Lever						



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