

# PRESSURE VESSEL & COLUMN INSPECTION REPORT

**LSD:** 10-04-050-24W3      **Date:** 2015-07-09      **SAP Equipment ID** 66177805

VESSEL STATIC DATA										
<b>Plant:</b> Big Gully					<b>OP Unit:</b>			<b>System:</b>		
<b>Prov. Insp . #:</b> 0609919		<b>NB#:</b> N/S			<b>CRN:</b> V5361.23			<b>Equip Tag#:</b> 66177805		
<b>Equipment Description:</b> SEPARATOR					<b>Serial #:</b> 130495					
<b>Manufacturer:</b> Bromley Mechanical Services					<b>Vessel Class:</b> vessel					
<b>Internal Access:</b> No		<b>Description:</b>			<b>Year Built:</b> 2011					
<b>MAWP:</b> 6205 kpa		<b>At Temp</b> 288 C			<b>MDMT:</b> -45 C					
<b>Code:</b> ASME		<b>RT:</b> RT1			<b>PWHT:</b> No					
<b>Diameter:</b> 610 mm	<b>Length:</b> 1829 mm	<b>(T/T):</b> mm			<b>OAL:</b> mm			<b>Orientation:</b> Vertical		
<b>SHELL</b>	<b>Mat'l:</b> SA-516 70	<b>Thickness:</b> 19.05 mm			<b>Corr Allowance:</b> 3.18 mm					
<b>HEAD</b>	<b>Mat'l:</b> SA-516 70	<b>Thickness:</b> 19.05 mm			<b>Corr Allowance:</b> 3.18 mm					
<b>Nozzle</b>		<b>Mat'l:</b>			<b>Thickness:</b>			<b>Corr Allowance:</b>		
<b>Internal Coating:</b>					<b>Internal Clad:</b>			<b>Capacity:</b> m3		
<b>Manway:</b> No					<b>Inspection Port:</b> Yes			<b>Skirt</b> X <b>Legs</b> <b>Saddle</b>		
<b>Nozzle Rating:</b> 600 lb ANSI					<b>Painted:</b> Yes			<b>Insulated:</b> Yes		
PROCESS DATA										
<b>Production Description:</b>					<b>Sweet</b> Yes <b>Sour:</b>					
<b>Operating Pressure</b> kpa					<b>Operating Temp:</b> C			<b>Status:</b> Operating		
PSV STATIC DATA										
Tag #	Serial No.	Location	Size(mm)		Set Press (kPa)	Capacity Imperial (SCFM)	Manufacturer	Model	Last Service	Service Company
			Inlet	Outlet						
PSV-908	593481-6-A10	Shell	25.40	50.80	6198		FARRIS	26DA13-M 20	2011/11/01	N/A
PSV DETAILS										
		<b>Type(Thread/Flange)</b>		<b>ANSI Rating</b>			<b>Size(In/mm)</b>			
<b>PRD Inlet</b>		Flanged		600			25.40			
<b>PRD Outlet</b>		Flanged		150			50.80			
NDE Equipment Records										
Procedure #	Description	Manufacturer	Model#	Serial#	Due Date					
**** See Associated NDE Report										

## INSPECTION SUMMARY

VESSEL IS FIT FOR SERVICE.

## RECOMMENDATIONS

## NONCONFORMANCES/INSPECTION DEFICIENCIES



## PRESSURE VESSEL & COLUMN INSPECTION REPORT

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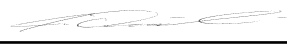
66177805

### INSPECTION PLANNING

Inspection Strategy		Availability		Inspection Interval	5 year
Inspection Date	2015/07/09	Date of Last Inspect		Date of Next Insp	2020/07/09

### 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	Justin Orichowski		AB Cert #	758	AB Cert #		Date	2015/07/09
Reviewed and Approved by							Date	2015-01-07
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)	N/A		No	
V2	General Corrosion	Accept		No	NO CORROSION OBSERVED.
V3	General Leaks	Accept		No	NO LEAKS FOUND.
V4	Vibration	N/A		No	
V5	Dissimilar Flange Rating	Accept		No	NO ISSUES.
V6	Ladder/Stairway	N/A		No	
V7	Heads	Accept		No	BOTH HEADS ARE INSULATED, BUT APPEAR IN GOOD CONDITION.
V8	Guy Wires	N/A		No	
V9	Electrical Ground	Accept		No	BUILDING IS GROUNDED.
V10	Painted Inactive Corrosion	N/A		No	
V11	Coating/Painting	N/A		No	
V12	Expansion Joint or Bellows	N/A		No	
V13	Gauge/Site Glass	Accept		No	ALL GAUGES IN GOOD CONDITION.
V14	Shell	Accept		No	INSULATED - GOOD CONDITION.
V15	Jacket	N/A		No	
V21	Support Other (Please explain)	N/A		No	
V22	Foundation	Accept		No	METAL FOUNDATION IN GOOD CONDITION.
V23	Anchor Bolts	N/A		No	
V24	Saddle/Skirt	Accept		No	SKIRT IN GOOD CONDITION.
V25	Davit	N/A		No	
V26	Fireproofing	N/A		No	
V31	Connections Other (Please explain)	Accept		No	THREADED & FLANGED CONNECTIONS IN GOOD CONDITION.
V32	Small Branches	Accept		No	NO ISSUES.
V33	Nozzles	Accept		No	GOOD CONDITION.
V34	Manways	N/A		No	
V35	Reinforcing Pads	N/A		No	
V36	Inadequate Thread Engagement	Accept		No	NO ISSUES FOUND.
V37	Bolting	Accept		No	GOOD CONDITION.
V38	Flanges	Accept		No	GOOD CONDITION.
V39	Leak Clamps	N/A		No	
V41	Insulation Other (Please explain)	Accept		No	INSULATION ON VESSEL SHELL, HEADS, & PIPING IN GOOD CONDITION.
V42	Damage	Accept		No	NO DAMAGE OBSERVED.
V43	Penetrations	N/A		No	
V44	Insulation Jacket	Accept		No	ALUMINUM CLADDING IN GOOD CONDITION.
V45	Banding	Accept		No	NO ISSUES.
V46	Seals/Joints	Accept		No	NO ISSUES.
V51	Relief Devices Other (Please explain)	Accept		No	SERVICED 11/2011
V52	Corrosion	Accept		No	NONE.
V53	Leaks	Accept		No	NONE.
V54	Restricted Inlet/Outlet	Accept		No	NO RESTRICTIONS.

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V55	Manual Operation Lever	N/A		No	
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### DETAILED INSPECTION OTHER TECHNIQUES

ID	Location	Observation/Measurement	Acceptance Criteria	NCR	Comments

### DETAILED INSPECTION UT THICKNESS

CML	Nom. Thickness (mm)	CURRENT READINGS (mm)	short term corr rate (mm/y)	long term corr rate (mm/y)	remaining life (year)	Survey Date	Comments
05 (SHELL)	19.05	19.25	0.0000	0.0000	198.0	2015/07/09	NO COMMENTS
10 (SHELL)	19.05	19.51	0.0000	0.0000	198.0	2015/07/09	NO COMMENTS
15 (HEAD)	19.05	18.59	0.0963	0.0963	54.2	2015/07/09	NO COMMENTS <span style="color: red;">Within C.A.</span>
20 (90L 4 XS)	8.56	8.59	0.0000	0.0000	198.0	2015/07/09	NO COMMENTS

Inspected By	Signature	CGSB Level	CGSB No.	Survey Date	UT Equip	Due Date OF Calibration	NDE Procedure No.
Justin Orichowski		1	16325	07/09/2015	104_91638503_EPOCH4	06/27/2016	WQS UT-001

## EXAMINATION ILLUSTRATION

DISTRICT:	SASK WEST	FACILITY:	BIG GULLY	LOCATION/LSD:	10-04-050-24W3
EQUIP NAME:	SEPARATOR			PROV REG No.:	0609919
SERIAL No.:	130495	Equip No.:	66177805	National Board No.:	



NOTES:

## PHOTOGRAPHS

<b>EQUIP NAME:</b>	SEPARATOR	<b>PROV REG No.:</b>	0609919
<b>SERIAL No.:</b>	130495	<b>Equip No.:</b>	66177805
		<b>National Board No.:</b>	



NAMEPLATE



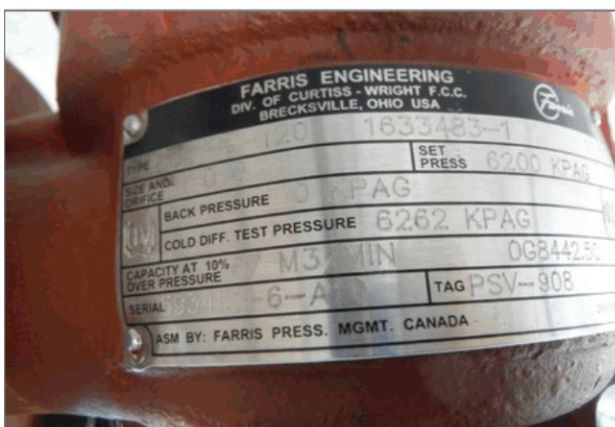
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OVERALL



PSV



PSV TAG



PSV TAG

NOTES: