

01-18-017-18W4M
PROPANE SURGE DRUM
A0197574
REPORT # A#0197574_GRADY INSPECTION LTD VE UT INSP_1APR2022

DATE 4/1/2022
CLIENT CNRL

Phone:403-793-7697

8 Sarah King Crt E Brooks, Alberta, T1R 0J8
grady.rustebakke@gmail.com




PRESSURE EQUIPMENT						AB-506 INTERVAL																			
DISTRICT		AB - OIL & NATURAL GAS		SHELL TUBE		Upstream pressure vessels not																			
FACILITY		Armada Gas Plant		MAWT		150		F		GRADE		YEARS		REG											
A#		A0197574		YR		1984		MAWP		250		psi		Equip		PSV		UT		X					
SERIAL #				PSV		250		psi		3		10		6		10		X							
CRN		F0749.2		PSV CRN		01832.568																			
EQUIP#				SERVICED		3/21/2016																			
STATUS		IN SERVICE		UNIT		Refridge comp				VE		VI		MT		PT		ET		UT					
										X										X					
MANUFACTURER						ALCO GAS & OIL PRODUCTION EQUIPMENT LTD.						INSPECTION TYPE													
DH LSD				L		6		Ft		OD		2		Ft		INSPECTION RESULT:									
REPAD		0		UNIQUE ID																NCR-OPERATIONS		X			
																		NCR-REGULATORY/ADMIN							
																		ACTION ITEM RAISED							
																		REPAIR REQUIRED							
																		SUITABLE FOR SERVICE						X	
																		RECOMMENDATIONS:							
																		VE Inspection: Service PSV. Replace carseal.							


RESULTS OF INSPECTION:


VE Inspection:
Fit For Service. Vessel is in good visual condition.
PSV block valve carseal does not inhibit closure of valve.
PSV due for service
UT Inspection:
No corrosion was found with the ultrasonic inspection.

SIGN OFF		API 510	EXP.	IPV	EXP.	INSPECTOR - PRIMARY	INSPECTOR - REVIEW	CLIENT SIGN OFF
INSPECTED BY	ToddM Mckenzie	97445	12/31/2022	00133	7/13/2026			
REVIEWED BY	Ashley Rustebakke	60285	7/31/2024	966	6/16/2026			

Ultrasonic Report		Date	4/1/2022	Phone: 403-793-7697 8 Sarah King Crt E Brooks, Alberta, T1R 0J8 grady.rustebakke@gmail.com	
LSD	01-18-017-18W4M	Facility	Armada Gas Plant		
DH-LSD		Field	Red Deer District		
Jurisdiction # A0197574					
Serial #					
Ultrasonic Report #: A#0197574_GRADY INSPECTION LTD VE UT INSP_1APR2022					

ULTRASONIC SET			COMPONENT DETAILS				CODE					
EQUIPMENT	CALIBRATION DUE	SERIAL NUMBER	MATERIAL GRADE	SURFACE PREP		TEMP	THICKNESS	CALIBRATION	EVALUATION			
EPOCH 600	2/25/2023	120388107	Carbon Steel	Painted		0C		ASME V	ASME VIII Div 1			
CALIBRATION BLOCK		PROBE						COUPLING		METHOD		
TYPE	SERIAL#	REF dB	SCAN dB	FREQ.	SIZE.	ANGLE	SERIAL #	TYPE	COUPLANT	CABLE	TECHNIQUE	PROCEDURE
10 Step Metric	14-2065	60	66	5 Mhz	0.25 "	0	15B00DU3	Dual	UT-X	6' BNC to Micro	LW Dual	UT01T1R4
SCOPE		As requested by Dustin Rumohr an ultrasonic inspection was completed on the SURGE DRUM										
LIMITATIONS		Previous ultrasonic inspection data not obtained by Grady Inspection Ltd.										
RESULTS		No corrosion was found with the ultrasonic inspection.										

Technician Name	Certification Body	Certification #	Expiry	Technician Signature			
3 ToddM	CGSB	9234					
				Client Name			
				Client Signature			

External Inspection - (Vessel)		Date	3/30/2022	Phone:403-793-7697 8 Sarah King Crt E Brooks, Alberta, T1R 0J8 grady.rustebakke@gmail.com	
LSD	01-18-017-18W4M	Facility	Armada Gas Plant		
DH-LSD		Field	Red Deer District		
Jurisdiction #		A0197574			

Fit For Service:	Fit For Service.
Inspection Summary:	Vessel is in good visual condition. PSV block valve carseal does not inhibit closure of valve. PSV due for service
Recommendations:	Service PSV. Replace carseal.

External Inspection Items	G/F/P	Comments
General Condition:	Good	No notable mechanical damage, areas of wear/fretting, distortion, misalignment, or visible weld defects.
External Coating:	Good	Vessel is in good visual condition. Vessel is painted. Vessel is indoors.
Insulation / Cladding:	N/A	Non insulated vessel
Nozzles, Piping and Connections:	Good	Number of nozzles repaded: 0 Number of nozzles without repad: 0 Nozzles and piping in good visual condition
Buried Vessels:	N/A	Above Ground
Ladders, Platforms and Walkways:	N/A	No attached ladder or platform
Foundations and Supports:	Good	Anchor bolts fully engaged Building is secure Concrete is intact with no visible deficiencies
Shell:.	Good	No notable mechanical damage, areas of wear/fretting, distortion, misalignment or visible weld defects.
Saddles / Skirts:	Good	Saddle is in good visual condition and slotted for horizontal movement.
Grounding:	Good	Ground Wire is secure Grounded through piping system
Gauges and Instrumentation:	Good	<div>Shell Gauge (0 - 300 @ 100 psi)</div> <div>Temp Gauge (0 - 250 @ 62 F)</div> <div>Gauge is clear, colorless and correct for the MAWT. Gauge is clear, colorless and correct for the MAWP.</div>
Pressure Protection:	Fair	The PSV Set Pressure (250 psi) is suitable for the MAWP (250 psi) PSV Due for Service, not yet exceeding six months or 10% of Interval PSV inlet and outlet block valve carseals are installed in such a manor as to allow operation with out removing the car seal.
NDE Summary:	Good	No corrosion was found with the ultrasonic inspection.
Manway Davits/Quick Closure:	N/A	No Manway
Nameplate:	Good	Nameplate is legible and readily accessible and securely affixed

PSV Data

LSD

01-18-017-18W4M

FACILITY Armada Gas Plant

FIELD Red Deer District

Phone:403-793-7697

8 Sarah King Crt E Brooks, Alberta, T1R 0J8
grady.rustebakke@gmail.com**GRADY**
INSPECTION LTD

UVL ID#: 14382B **S N:** 84C0850

Man: CONSOLIDATED **Model:** 1990C1

Set Press: 250 PSI **Capacity:** 1354 SCFM

Cold Diff: **Back Press:** PSI

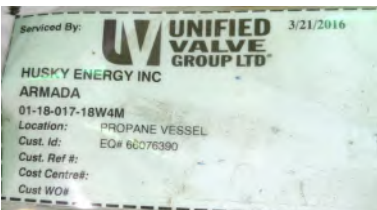
Size: 1" MNPT **X** 1" FNPT

A#: **Vessel SN:**

WO#: 612547 **CRN:** 01832.568312

PO#: 8401034789 **PO Line#**

REVISION 3 07082014 QF-067



ASSOCIATED PRESSURE EQUIPMENT DATA

PV JUR/SER A0197574

SHELL

TUBE

MAWP

250

psi

PSV FIT FOR SERVICE STATEMENT

Fit For Service.

PSV STATIC DATA

MODEL 1990C1

SERIAL 84C0850

MANUFACTURER CONSOLIDATED

TAG 14382B

CRN 01832.568312

SEAL Y

SET PRES

250

psi

CAPACITY 1354

SCFM

SERVICE DATE

3/21/2016

SERVICE COMPANY

Unified Valve Group

T/F

UV

NB

T

UV

NB

SIZE

B VALVE

CARSEAL

INLET

1

N

OUTLET

1

Y

Y

PSV COMMENTS

Car seal does not inhibit valve movement. PSV due for service

Overview Photo

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Serial #

Date

4/1/2022

FACILITY

Armada Gas Plant

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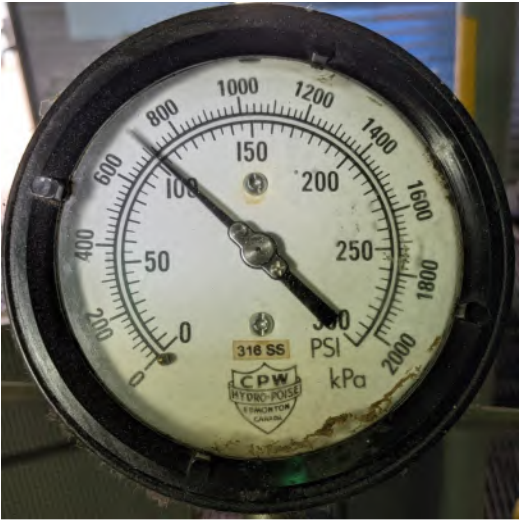
GRADY
INSPECTION LTD



Nameplate



Overview



Pressure Gauge



Temperature Gauge

Phone:403-793-7697

FACILITY Armada Gas Plant

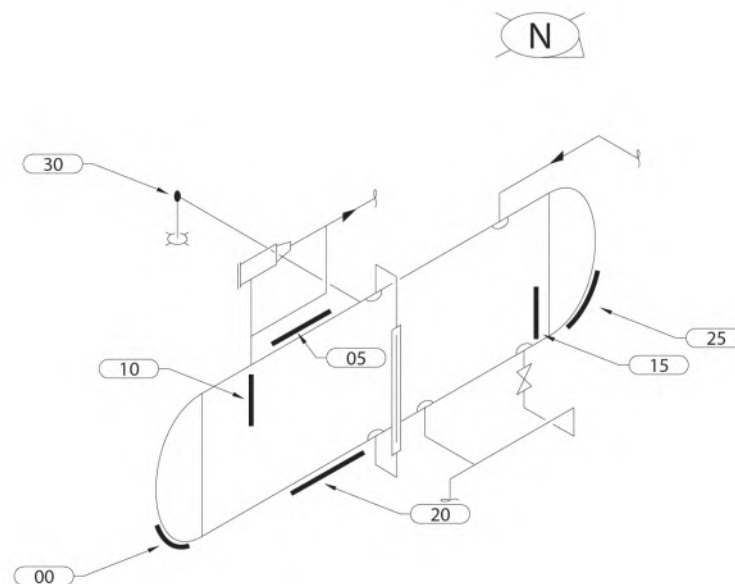
FIELD Red Deer District

DWG **1** **Location:**

8 Sarah King Crt E Brooks, Alberta, T1R 0J8
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Ser #	Inspection Dates and Thickness Values (mm)																% Wall Loss	Corrosion Rates			Rem Life Date	Rem Life (yrs)	Next Insp Date	Insp (yrs)	Inspection Comments		
	CML#	Nom	CA/Tol	SFlag	STmin	PTmin	> Tmin	Comp	Type	Pipe Size	Code	MOP	Baseline		3rd Last			2nd Last		Last						# of Insp	
													Date	Min Ave	Date	Min Ave		Date	Min Ave	Date							Min Ave



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DWG 1

Location:

Ser #



Ser #	Inspection Dates and Thickness Values (mm)																												
CML#	Nom	CA/Tol	SFlag	STmin	PTmin	> Tmin	Comp Type	Pipe Size	Code	MOP	Baseline		3rd Last		2nd Last		Last		# of Insp	% Norm Wall Loss	Corrosion Rates		Rem Life Date	Rem Life (yrs)	Next Insp Date	Insp Int (yrs)	Inspection Comments		
											Date	Min Ave	Date	Min Ave	Date	Min Ave	Date	Min Ave			ST	LTn						LTi	
00	12.6	12.5	4.9		4.9	4.9	Head		UG32HeadElli	250		5/4/07	13.5			3/28/12	12.9	4/1/22	12.8	13.5	3	-2%	0.01	0.05			3/29/2032	10.0	
05	9.5	9.4	11.7		5.8	5.8	Shell		UG27ShellInt	250		3/28/12	10.0			2/13/17	9.4	4/1/22	10.1	10.3	3	-6%					3/29/2032	10.0	
10	9.5	9.4	11.7		5.8	5.8	Shell		UG27ShellInt	250		3/28/12	10.0					4/1/22	10.0	10.3	2	-5%					3/29/2032	10.0	
15	9.5	9.4	11.7		5.8	5.8	Shell		UG27ShellInt	250		3/28/12	9.4					4/1/22	9.2	9.5	2	3%	0.02		4/13/2190		3/29/2032	10.0	
20	9.5	9.4	11.7		5.8	5.8	Shell		UG27ShellInt	250		3/28/12	9.6					4/1/22	9.5	9.7	2	-0%	0.01				3/29/2032	10.0	
25	12.6	12.5	4.9		4.9	4.9	Head		UG32HeadElli	250		5/4/07	13.5			2/13/17	13.0	4/1/22	12.7	13.5	4	-1%	0.06	0.05			3/29/2032	10.0	
30	3.9	3.4	2.5	1.8	0.4	1.8	Elbow	2" STD 40--(3.9mm)	API570	250		3/28/12	3.9					4/1/22	3.9	4.4	2	0%					3/29/2032	10.0	