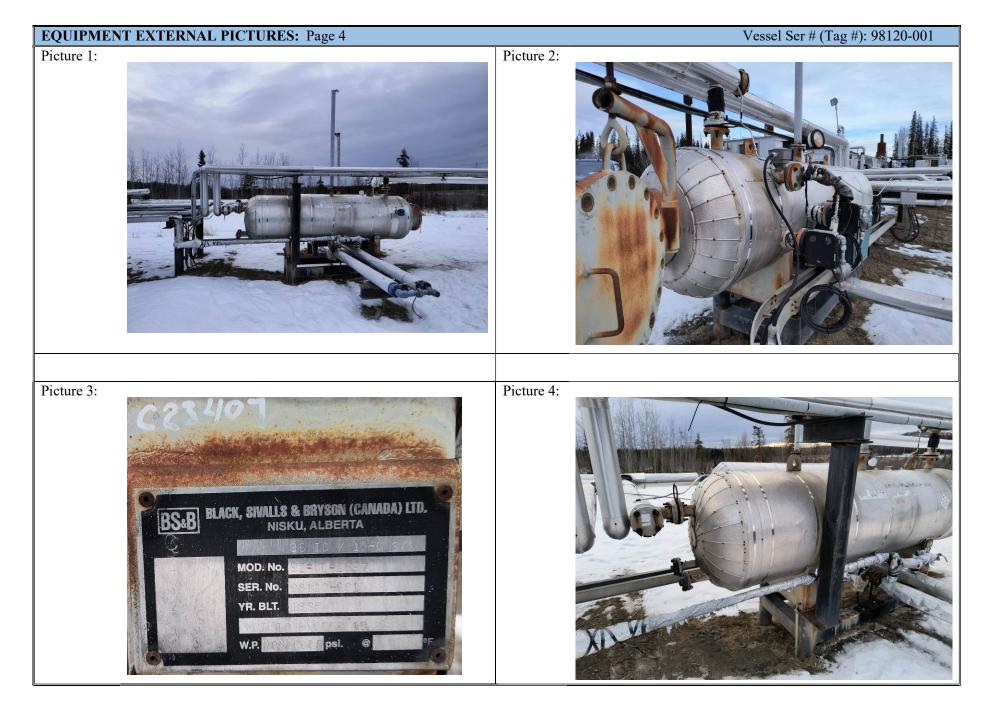
GENERAL INSPECTION FORM												
Company Name: C	anadian Nat	ural Resources	Limited	Inspection Date: December 11 <sup>th</sup> , 2023								
Facility: West Blue	berry			Location (LSD): 12-29-88-25 W6								
Vessel Name & Equ	ipment Nun	nber: Low Press	sure Flare Knoc	kout								
Orientation: Horizo	ontal 🗹 o	or Vertical 🗆	]	Status: operating 🗆 or shut –in 🗹								
Internal Inspection	☑ and / o	or External Ir	spection 🗹	Commissioning Inspection D or Corporate Inspection D								
		PRESS	URE VESSEL	NAMEPLATE I	DATA							
"A" or BC Registrati	ion Number:			Company Tag	# (if applic	able): C	23407					
CRN Number: Non-	code			Associated PSV	V Tag # (if	applica	ble):					
Vessel serial number	: 98120-001			Size (diameter)	x length- es	stimate if	necessary): 36" II	<b>D</b> x 10'- 0" S/S	5			
Shell thickness: 0.31	2" (based on	nominal thicknes	ss for 36")	Shell material:								
Head thickness: 0.31	2" (based on	nominal thickne	ss for 36")	Head material:								
Tube wall thickness:				Tube material:								
Tube diameter:				Tube length:								
Channel thickness:				Channel materi	al:							
MAWP	Shell: 14.9 psi					Operating pressure Shell:						
	Tubes:						Tubes:					
Design Temp.	Shell: Design Temp.				Operating temperature			Shell:				
	Tubes:					Tubes						
Radiography:				Heat treatment: Yes D No 🗹								
Code parameters:				Joint efficiency (if on nameplate): W								
Manufacturer: Black	, Sivalls & B	ryson (Canada) I	Ltd.	Year built: 1998								
Corrosion allowance		,		Manway? Yes ☑ No □								
		PRESSURI	E SAFETY VAL	VE NAMEPLA	TE DATA							
Location	Set Pressure	Mode	I / Serial #	Capacity (ie:SCFM/ GPM,etc)	Size (In Outle		Manufacturer	Set Date (mm/dd/yyyy)	()			
		SERVICE CO	NDTIONS-IND	ICATE ALL T	HAT APP	LY						
Sweet 🗆	Sour		Oil			Gas		Water 🗹				
Amine 🗆	LPG		Condensate	V		Air		Glycol 🛛				
Other (Describe):												

External Inspection Items		F	P	N/A	Comments				
<b>Insulation</b> Verify sealed around manways, nozzles, no damage present, and there is no egress of moisture. Are straps secure?	~				Vessel was 100% insulated. Insulation appeared to be in good condition, straps in place, no egress of moisture.				
<b>External Condition</b> Assess paint condition, areas peeling, record any corrosion, damage, distortion etc (record location, size and depth of corrosion or damage)				~	Vessel was 100% insulated. No signs of external corrosion, damage or distortion.				
<b>Leakage</b> Record any leakage at flanges, threaded joints, weep holes on repads, etc.				$\checkmark$	No leaks noted				
<b>Skirt/ Saddle</b> Assess condition of paint, fire protection, concrete. Look for corrosion, buckling, dents, etc. Look at vessel surface area near supports. Verify no signs of leakage at attachment to vessel and attachment welds are acceptable. Is ground wire attached?	~				The vessel is supported by saddles. The saddles were in good condition. No signs of corrosion, buckling or dents. All attachment welds appeared to be in good condition, no leaks.				
Anchor Bolts Hammer tap to ensure secure. Look for corrosion, cracking in threads or signs of deformation.				✓	N/A				
<b>Concrete foundation</b> Check for cracks, spalling, etc.				$\checkmark$	N/A				
<b>Ladder / Platform</b> Describe general condition, ensure support is secure to vessel, describe any hazards.				~	N/A				
<b>Nozzle</b> Assess paint, look for leakage, and ensure stud threads are fully engaged. Record any damage, deflection, etc. Are nozzles gusseted? Inspect gussets for cracking.	~				All nozzles appeared to be in good condition. Stud threads were fully engaged. No signs of damage or deflection. Nozzles were not gusseted.				
<b>Gauges</b> Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/ Temp.				✓	No gauges noted at time of inspection.				
<b>External Piping:</b> Ensure pipe is well supported. All clamps, supports, shoes, etc. in place. Look for evidence of structural overload, deflection, etc. Paint condition, external corrosion?	~				Piping was in good condition. No signs of external corrosion, damage or distortion. Piping was well supported with no structural overload or deflection noted. Inlet and outlet piping was constructed with fiberglass, nozzles to vessel are steel.				
Valving: Ensure no leaks are visible. Valves are properly supported and chained if necessary.	~				Valves appeared to be in good condition. No leaks noted.				
	YE	s	NO	N/A					
<b>PSV</b> Ensure PSV is set at pressure at or below that of vessel. Discharge piping is same size as valve outlet and is properly supported and routed. Are psv seals in place? Ensure no block valves between psv and vessel, or if there are that they are locked/sealed open.			~		Non-code.				
NDE methods: was UT/ MPI done on vessel	~				Ultrasonic inspection completed at time of inspection. Note: see separate report for U/T results				
Fit For Service Inspection did not identify any	~				No NCR's identified. Equipment does not require any repairs.				

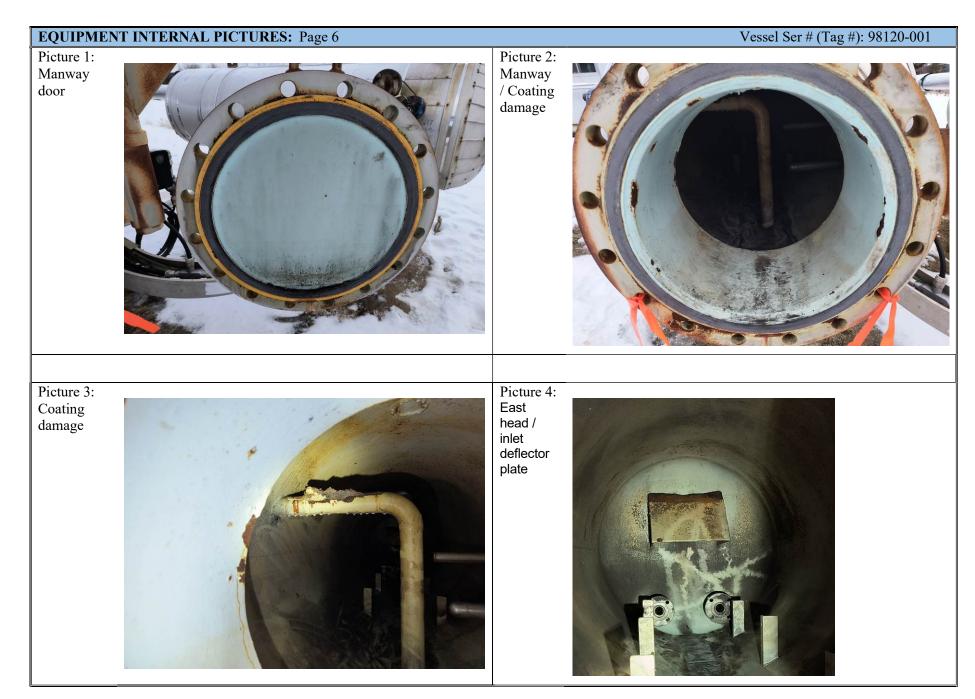
Overall, the vessel was in good condition. No obvious deficiencies noted.

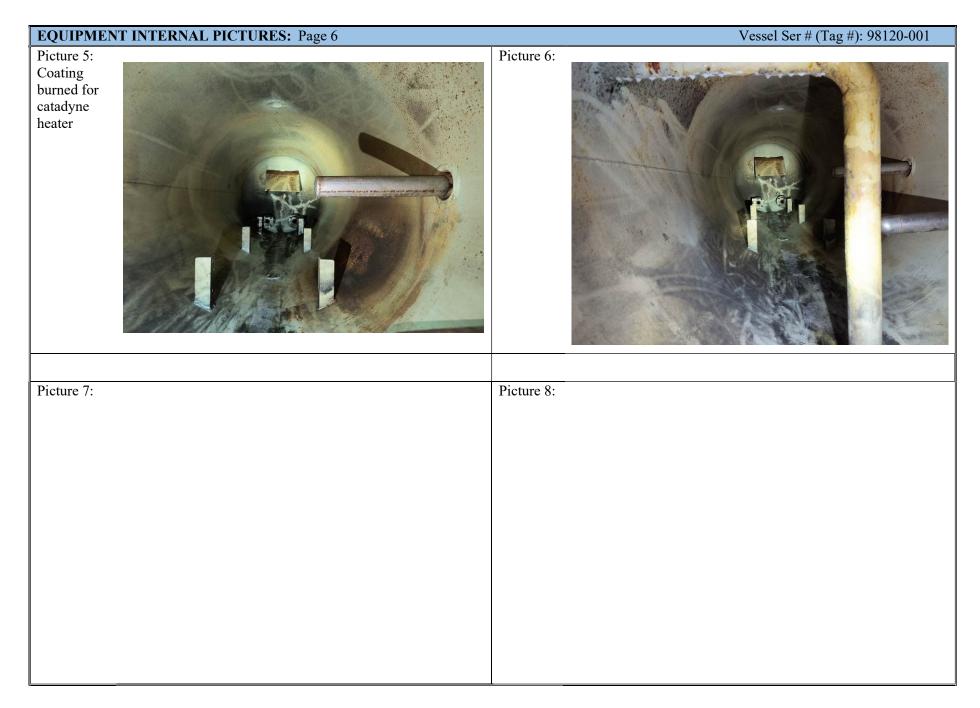
Internal Inspection Items	G	F	Р	N/A	Comments					
<b>Coating</b> Assess coating. Describe area coated, general condition of coating. Look at nozzles, coupling, and areas of most severe corrosion to ensure coating is intact. If coating is in poor condition make decision <u>now</u> if re-coating necessary? If so, when?	~				Vessel was 100% internally coated. Coating damage / failure noted at manway and top of internal piping. Coating is burned and blistered in area where external catadyne heater is located.					
Anodes. How many, type, condition. % consumed. Are they being replaced?				✓	No anodes were installed at the time of internal inspection.					
Internal Components Is there any? If so, carbon or stainless steel. Describe condition, dents, corrosion, erosion, etc. Ensure supports are secure and any bolts are suitable for future use.	~				Internal components consisted of inlet deflector plate, downcomer and some supports (not sure what supports are for). No signs of external corrosion, damage or distortion.					
<b>Trays</b> How many? Type of material. Are valves in place? Check for erosion/ corrosion; wear on tray valve legs. Cleanliness?				~	No trays present					
<b>Baffles, deflector plates, etc.</b> If present, describe condition. Look closely at welds attached to vessel wall.	~				The inlet had a deflector housing around it, no signs off corrosion damage. But limited visual from manway only.					
<b>East Head</b> Note all corrosion, erosion or mechanical damage. (If vessel is horizontal identify direction of this head)	~				The head appeared to be in good condition, with no corrosion damage noted. But limited visual from manway only.					
<b>West Head</b> Note all corrosion, erosion or mechanical damage. (If vessel is horizontal identify direction of this head)	~				The head appeared to be in good condition, with no corrosion damage noted. But limited visual from manway only.					
<b>Shell Sections</b> Record number of shell sections. Record location, size and depth of all erosion, corrosion or mechanical damage. Describe general condition. If any corrosion greater than corrosion allowance is observed in either shell or head, discuss with Chief Inspector before closing vessel.	*				The shell appeared to be in good condition, with no corrosion damage noted. But limited visual from manway only.					
<b>Demister pad</b> Is it in place? Is it clean? If any corrosion is apparent in vessel, lift pad and check top head for corrosion.				~	N/A					
Welds Inspect all welds, including attachment welds. Record all service-related damages and if there is any discuss with Chief Inspector before closing.	~				All welds inspected, appeared to be in good condition. No deficiencies noted.					
	YES		NO	N/A						
<b>Repairs Required</b> . If yes, ensure corporate procedure is followed	~				Coating repairs should be completed prior to putting back into service.					
NDE Was any NDE done. (MI coordinator to review results)	~				Internal visual, external U/T was completed.					
Fit For Service Inspection did not identify any					No NCR's identified.					

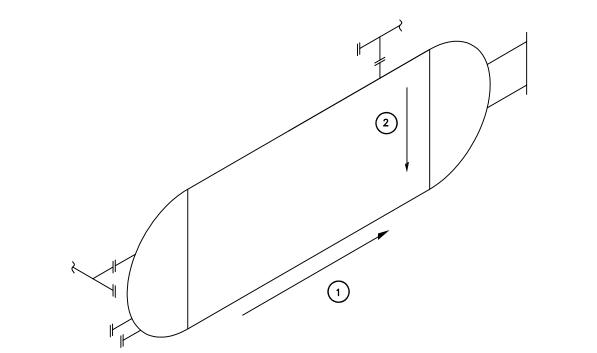
Overall, the vessel was in good condition. Coating repairs should be completed prior to putting back into service.











	EQUIPMENT DATA:	)					
MAKE:	BLACK SIVALLS & BRYSON (CANADA) LTD.						
SER. NO.:	91-0L-10970						
CRN NO.:	-						
CNRL NO.:	C23407						
ALTA. NO.:	-						
MFG. DATE: 1998							
MAWP:	15 PSI						
'ť SHELL:	-	] []	NSPECTIO	N LTD.	WEST BLUEBERRY CO	OMPRESSOR STATION	
't' HEAD:	-					-88-25	
SIZE:	36" ID x 10'-0"		DRAWN:	13020 BEATTON PARK ROAD, BOX 283, CHARLIE LAKE, B.C.	12 20	00 20	
CORR. ALLOW .:	-	BY:	T.NINAN	VOC 1H0	COMPANY:	DRAWING NUMBER:	
XRAY/STRESS REL.:	-	DATE:	DECEMBER 12th, 2023	(250)785 6295	CANADIAN NATURAL RESOURSES	CNRL_WEST_BLUEBERRY_12-29_LPFK	

ENGINEERING - OIL AND GAS	ALFFEC Inspection LtD.   Inspection LtD. Client: Canadian Natural Resources Ltd.												
	Ultrasonic Inspection												
District: FSJ	l North				Equipment Name: I	ow Pressure FKO				Serial No	o: 98120-	001	
Facility: West Blueberry Provincial Reg #: Operating Status: Out of Service   Location: 12-29-88-25 W6 Equipment No: C23407 Inspection Date: December 11t   Thickness Data Thickness Data													
Band #'s	Size	Sch	Nom. Mill Tol. Dec 11, 2023					Piping Flag Criteria	T <sub>min</sub> (calc.)	S <sub>tcr</sub>	L <sub>tcr</sub>	Remaining Life (Years)	% T <sub>min</sub>
					Low P	ressure Flare Knock	out					`	
Band #1	Bottom Shell	I 0.312 N/A 0.305 0.305						0.312	0.100	0.007	0.007	29.29	205.00
Band #2	Shell		0.312	N/A	0.304		0.304	0.312	0.100	0.008	0.008	25.50	204.00

	Notes										
M <sub>low</sub>	Measured lowest thickness reading for given data	Assumptions made for the analysis of obtained data:									
Piping Flag Criteria	Nominal thickness - mill tolerance - C.A.	1. The MAWP for the filter was considered as 170 psi.									
T <sub>min</sub> (Calc.)	ASME B31.3 minimum thickness calculation										
S <sub>TCR</sub>	Short term corrosion rate										
L <sub>TCR</sub>	Long term corrosion rate										
% T <sub>min</sub>	<u>White background indicates above 25% of <math>T_{min}</math> (Calc.)</u> Yellow background indicates at / or below 25% of $T_{min}$ (Calc.)										

Inspected By:	Signature	CGSB Cert. #	CGSB Level	Equipment Detail	Transducer Detail	Date
Justin Bolog	Alt	11938	UT 2	DMS GO	7.5 MHz FH2E	December 11th, 2023