

### **PRESSURE VESSEL & COLUMN INSPECTION REPORT**

			LSD: 06	-09-050-19	9W5	Date: 2	014-05-12	SAP Equip	pment ID	66048297		
					VESSEL ST	ATIC DAT	١					
ant:	ANS	ELL		ОР	Unit:				System:			
ov. Insp . #:	0440	5816		CR	N:	H2451.2			Equip Tag#:	66	048297	
uipment De	scription:	SEPARA	ATOR						Serial #:	53	49	
anufacturer:	RJV	' Gas Field Se	ervices						Vessel Class:	ve	ssel	
iternal Acces	s: No			De	scription:				Year Built:	19	998	
AWP:	992	19	kpa	At	Temp	38	С		MDMT:		-1 C	
ode:				RT	: RT2				PWHT:	No	)	
iameter: 40	06 mn	n <b>Length</b>	<b>1:</b> 2286	mm (T	<b>/T):</b> mm	OAL:	mm		Orientation:	Ve	rtical	
SHE	LL N	Mat'l: SA-:	106 B	Th	ickness:	26.21	mm		Corr Allowan	ce:	3.18 mm	
HEA	ND N	Mat'l: SA-	516 70	Th	ickness:	19.61	mm		Corr Allowan	ce:	3.18 mm	
	Nozzle M	at'l:		Th	ickness:				Corr Allowan	ce:		
ternal Coati	na:			Int	ternal Clad:				Capacity:		m3	
anway:	No			Ins	spection Port:	Yes	3		Skirt X	Legs	Saddle	
ozzle Rating:			lb ANSI	Pa	inted:	Yes	5		Insulated:	No		
					PROCESS	DATA						
oduction De	scription:			Sv	veet	Sour:						
perating Pres	ssure		kpa	Op	erating Temp:			С				
					PSV STATI	C DATA						
						Capacity	_				1	
Tag #	Serial No.	Location		(mm)	Set Press	Imperial Manufactur		er	Model	Last Service	Service	
			Inlet	Outle	et (kPa)	(SCFM)				Service	Company	
19697	A90337	Shell	25.40	25.40	9901	2918	Mercer		9117D51T 14E1	2013/03/26	WIZARD	
					PSV DET	AILS						
		Type(Ti	hread/Flange	e)	AN	SI Rating			Size	e(In/mm)		
PRD Inle		Threade	-d						25.40			
									25	.40		
PRD Outle	et	Threade	ed ————							.40		
				ND	E Equipment	Records						
Procedo	ure #	Descrip	ption	Man	ufacturer	Мо	odel#		Serial#		<b>Due Date</b>	
**** See As	sociated NDE	Report	-		•					•		
					INSPECTI	ON SUMM	ARY					
T/VE PERFC	RMED.											
					RECOM	MENDATI	ONS					
/ESSEL IS FI	T FOR SERV	ICE.										
				Neve:		=0/T0==						
				NONCO	ONFORMANC	ES/INSPE	CTION DEFI	CIENCES				



Assessed Next Inspection Date

### PRESSURE VESSEL & COLUMN INSPECTION REPORT

**LSD:** 06-09-050-19W5 **Date:** 2014-05-12 **SAP Equipment ID** 66048297

		INSPECTION PLAN	NING									
Inspection Strategy		Availability	I	nspection Interva	al _							
Inspection Date	2014/05/12	Date of Last Inspect		Date of Next Insp		2018/05/12						
REPORT CERTIFICATION												
-	y that inspections/tests have beer idered fit for service until the date	completed in accordance with the id of next inspection.	entified inspection strate	egy and that the								
Inspected by	Jamey Tanasichu	k S	Cert #	000411	Date	2014/05/12						
Reviewed and Approved by		_			Date							
Criticality Assessment Rerur		Inspection Planning Reru	า									



### PRESSURE VESSEL & COLUMN INSPECTION REPORT

#### **DETAILED INSPECTION VISUAL EXTERNAL**

incl         Description         Control					_	
Control Cont	ID	Description	Condition	Location	NCR	Comments
	V1	General Other (Please Explain)	Accept		No	
Victorian	V2	General Corrosion	Accept		No	NO VISUAL EXTERNAL CORROSION NOTED.
No	V3	General Leaks	Accept		No	NO VISUAL LEAKAGES NOTED.
March   Marc	V4	Vibration	N/A		No	
1	V5	Dissimilar Flange Rating	N/A		No	
No	V6	Ladder/Stairway	N/A		No	
V9         Electrical Ground         Accept         NO           V10         Painted Inactive Corrosion         N/A         NO         MINOR PAINT FEELING NOTED ON ASSOCIATED PIPPING.           V11         Costing/Painting         Accept         NO         MINOR PAINT FEELING NOTED ON ASSOCIATED PIPPING.           V12         Expansion Joint or Bellows         N/A         NO         GRUGES ARE VISIBLE APPEAR TO BE IN GOOD CONDITION.           V13         Support Other (Please explain)         N/A         NO         GRUGES ARE VISIBLE APPEAR TO BE IN GOOD CONDITION.           V15         Jacket         N/A         NO         GRUGES ARE VISIBLE APPEAR TO BE IN GOOD CONDITION.           V15         Jacket         N/A         NO         NO           V15         Jacket         N/A         NO         NO           V12         Support Other (Please explain)         N/A         NO         NO           V12         Subject (Strit         Accept         NO         SCRITTIN GOOD CONDITION, VESSEL WELDED TO RUOR, VESSEL IS SCRIBE.           V26         Firegroofing         N/A         NO         NO         SCRITTIN GOOD CONDITION, VESSEL WELDED TO RUOR, VESSEL IS SCRIBE.           V25         Dunkt         N/A         NO         ALL THEADED CONNECTIONS FULLY BROADED.	V7	Heads	Accept		No	
YOU         Painted Institute Corrosion         N/A         NO         MINOR PAINT FEELING NOTED ON ASSOCIATED PIPPING.           Y11         Coeting/Painting         Accept         NO         MINOR PAINT FEELING NOTED ON ASSOCIATED PIPPING.           Y12         Expansion Joint or Bellows         N/A         NO         CAUGES ARE YISBBLE APPEAR TO BE IN GOOD CONDITION.           Y13         Sauge/Site Glass         Accept         NO         CAUGES ARE YISBBLE APPEAR TO BE IN GOOD CONDITION.           Y14         Shall         Accept         NO         NO           Y21         Support Other (Please explain)         N/A         NO	V8	Guy Wires	N/A		No	
V11         Coaling/Fainting         Accept         NO         MNOR PAINT PERLING NOTED ON ASSOCIATED PIPRIG.           V12         Expansion Joint or Bellows         N/A         NO         ACCEPT           V13         Guage/Site Glass         Accept         NO         ACCEPT           V14         Shell         ACCEPT         NO         ACCEPT           V15         Jacket         N/A         NO         ACCEPT           V16         Support Other (Please explain)         N/A         NO         ACCEPT           V21         Support Other (Please explain)         N/A         NO         ACCEPT           V22         Foreign         N/A         NO         ACCEPT           V33         Anchor Bolts         N/A         NO         ACCEPT NO           V45         Bublish         ACCEPT         NO         SCERT IN GOOD CONDITION, VESSE, WELDED TO FLOOR, VESSEL IS SECRE.           V35         Preproofing         N/A         NO         ACCEPT NO         NO           V31         Connections Other (Please explain)         N/A         NO         ALL-THERADED CONNECTIONS FULLY ENGAGES.           V33         Nozzles         Accept         NO         ALL-THERADED CONNECTIONS FULLY ENGAGES.           V34	V9	Electrical Ground	Accept		No	
V12         Expansion Joint or Bellows         N/A         NO         Cause/Site Glass         Accept         NO         GAUGES ARE VISIBLE APPEAR TO BE IN GOOD CONDITION.           V14         Shell         Accept         NO         NO         CAUSED ARE VISIBLE APPEAR TO BE IN GOOD CONDITION.           V15         Jackete         N/A         NO         NO         NO           V21         Support Other (Please explain)         N/A         NO         NO         NO           V22         Foundation         N/A         NO         NO         NO         NO           V23         Anchor Bolts         N/A         NO         NO         SKIRT IN GOOD CONDITION, VESSEL WELDED TO FLOOR, VESSEL IS SECURE.           V34         Saddle/Skit         Accept         N/A         NO         SKIRT IN GOOD CONDITION, VESSEL WELDED TO FLOOR, VESSEL IS SECURE.           V35         Don't         N/A         NO         NO         SKIRT IN GOOD CONDITION, VESSEL WELDED TO FLOOR, VESSEL IS SECURE.           V36         Freiproofing         N/A         NO         NO         Invested Accept           V35         Convictions Other (Please explain)         N/A         NO         ALL THERADED CONNECTIONS FULLY ENGAGED.           V36         Reinforcing Pade         N/A         NO	V10	Painted Inactive Corrosion	N/A		No	
V11         Gauge/Site Glass         Accept         No         GAUGES ARE VISIBLE APPEAR TO BE IN GOOD CONDITION.           V14         Shell         Accept         No         Image: Control of the Co	V11	Coating/Painting	Accept		No	MINOR PAINT PEELING NOTED ON ASSOCIATED PIPING.
V1-1         Shell         Accept         No         Image: Common of Market Pressure Pr	V12	Expansion Joint or Bellows	N/A		No	
V15         Jacket         N/A         NO         Comment           V21         Support Other (Please explain)         N/A         NO         Comment           V22         Foundation         N/A         NO         SCRITT IN GOOD COMDITION, VESSEL WELDED TO RUDOR, VESSEL IS           V23         Anchor Bolts         N/A         NO         SCRITT IN GOOD COMDITION, VESSEL WELDED TO RUDOR, VESSEL IS           V24         Seddle/Skirt         Accept         NO         ACCEPT           V25         Dovit         N/A         NO         ECURTOR           V26         Fireproofing         N/A         NO         ECURTOR           V31         Connections Other (Please explain)         N/A         NO         ACCEPT           V32         Small Branches         Accept         NO         AU THERADED CONNECTIONS FULLY ENCAGED.           V33         Nozzles         Accept         NO         AU THERADED CONNECTIONS FULLY ENCAGED.           V33         Resinforcing Pads         N/A         NO         AU THERADED CONNECTIONS FULLY ENCAGED.           V34         Manways         N/A         NO         AU THERADED CONNECTIONS FULLY ENCAGED.           V34         Manways         N/A         NO         AU THERADED CONNECTIONS FULLY ENCAGED.	V13	Gauge/Site Glass	Accept		No	GAUGES ARE VISIBLE APPEAR TO BE IN GOOD CONDITION.
V21         Support Other (Please explain)         N/A         NO           V22         Foundation         N/A         NO         NO           V23         Anchor Bolts         N/A         NO         SCIRT IN GOOD CONDITION, VESSEL WELDED TO FLOOR, VESSEL IS SCIRE.           V24         Saddle/Skirt         Accept         NO         SCIRT IN GOOD CONDITION, VESSEL WELDED TO FLOOR, VESSEL IS SCIRE.           V25         Davit         N/A         NO         NO           V25         Fireproofing         N/A         NO         NO           V31         Connections Other (Please explain)         N/A         NO         Accept           V32         Small Branches         Accept         NO         Accept           V33         Nozzles         Accept         NO         NO           V34         Manways         N/A         NO         NO           V35         Reinforcing Pads         N/A         NO         NO           V36         Inadequate Thread Engagement         N/A         NO         FANGES PROPERLY ALIGNED & BOLTED.           V37         Bolting         Accept         NO         PANGES PROPERLY ALIGNED & BOLTED.           V39         Leak Clamps         N/A         NO         NO<	V14	Shell	Accept		No	
V22         Foundation         N/A         NO           V23         Anchor Bolts         N/A         NO           V24         Saddle/Skirt         Accept         NO         SKIRT IN GOOD CONDITION, VESSEL WELDED TO FLOOR, VESSEL IS SECURE.           V25         Davit         NO         NO           V26         Fireproofing         N/A         NO           V31         Connections Other (Please explain)         N/A         NO           V32         Small Branches         Accept         NO         ALTHREADED CONNECTIONS FULLY ENGAGED.           V33         Nozzles         Accept         NO         NO VISIBLE LEAKAGES.           V34         Manways         N/A         NO         NO           V33         Reinforcing Pads         N/A         NO         Indesquate Thread Engagement         N/A           V33         Inadequate Thread Engagement         N/A         NO         Indesquate Thread Engagement         N/A           V34         Flanges         Accept         NO         FLANGES PROPERLY ALIGNED & BOLTED.           V39         Leak Clamps         N/A         NO         FLANGES PROPERLY ALIGNED & BOLTED.           V41         Insulation Other (Please explain)         N/A         NO         In	V15	Jacket	N/A		No	
V23         Anchor Bolts         N/A         NO         SKIRT IN GOOD CONDITION, VESSEL WELDED TO FLOOR, VESSEL IS SECURE.           V25         Davit         N/A         NO         SKIRT IN GOOD CONDITION, VESSEL WELDED TO FLOOR, VESSEL IS SECURE.           V26         Fireproofing         N/A         NO         NO           V31         Connections Other (Please explain)         N/A         NO         ALL THREADED CONNECTIONS FULLY ENGAGED.           V32         Small Branches         Accept         NO         ALL THREADED CONNECTIONS FULLY ENGAGED.           V33         Nozzies         Accept         NO         NO VISIBLE LEAKAGES.           V34         Manways         N/A         NO         NO           V35         Reinforcing Pads         N/A         NO         Incompany           V33         Reinforcing Pads         N/A         NO         Incompany           V34         Inadequate Thread Engagement         N/A         NO         Incompany           V35         Bolting         Accept         NO         FLANGES PROPERLY ALIGNED & BOLTED.           V39         Leak Clamps         N/A         NO         Incompany           V41         Insulation Other (Please explain)         N/A         NO         Incompany	V21	Support Other (Please explain)	N/A		No	
V24         Saddle/Skirt         Accept         No         SKIRT IN GOOD CONDITION, VESSEL WELDED TO FLOOR, VESSEL IS SECURE.           V25         Davit         N/A         NO         Incommendation of the Please explain           V26         Fireproofing         N/A         NO         ALL THREADED CONNECTIONS FULLY ENGAGED.           V31         Connections Other (Please explain)         N/A         NO         ALL THREADED CONNECTIONS FULLY ENGAGED.           V33         Nozzles         Accept         NO         NO VISIBLE LEAKAGES.           V34         Manways         N/A         NO         Inadequate Thread Engagement           V35         Reinforcing Pads         N/A         NO         Inadequate Thread Engagement           V37         Bolting         Accept         NO         FLANGES PROPERLY ALIGNED & BOLTED.           V33         Flanges         Accept         NO         FLANGES PROPERLY ALIGNED & BOLTED.           V34         Insulation Other (Please explain)         N/A         NO         Insulation Other (Please explain)           V41         Insulation Jacket         N/A         NO         Insulation Jacket           V43         Penetrations         N/A         NO         Insulation Jacket           V44         Insulation Jacket	V22	Foundation	N/A		No	
V25         Davit         N/A         N/A         No         SECURE.           V26         Fireproofing         N/A         NO         Image: Connections Other (Please explain)         N/A         NO         Image: Connections Other (Please explain)         N/A         NO         ALL THREADED CONNECTIONS FULLY ENGAGED.           V33         Nozzles         Accept         NO         NO VISIBLE LEAKAGES.           V34         Manways         N/A         NO         Image: Connections Fully ENGAGED.           V35         Reinforcing Pads         N/A         NO         Image: Connections Fully ENGAGED.           V35         Reinforcing Pads         N/A         NO         Image: Connections Fully ENGAGED.           V36         Inadequate Thread Engagement         N/A         NO         Image: Connections Fully ENGAGED.           V37         Bolting         Accept         NO         FLANGES PROPERLY ALIGNED.           V38         Flanges         Accept         NO         FLANGES PROPERLY ALIGNED & BOLTED.           V39         Leak Clamps         N/A         NO         FLANGES PROPERLY ALIGNED & BOLTED.           V31         Insulation Other (Please explain)         N/A         NO         Image: Connection of the Connec	V23	Anchor Bolts	N/A		No	
V26         Fireproofing         N/A         NO           V31         Connections Other (Please explain)         N/A         NO           V32         Small Branches         Accept         NO         ALL THREADED CONNECTIONS FULLY ENGAGED.           V33         Nozzles         Accept         NO         NO VISIBLE LEAKAGES.           V34         Manways         N/A         NO         Inadequate Thread Engagement           V35         Reinforcing Pads         N/A         NO         Inadequate Thread Engagement           V37         Bolting         Accept         NO         FLANGES PROPERLY ALIGNED & BOLTED.           V38         Flanges         Accept         NO         FLANGES PROPERLY ALIGNED & BOLTED.           V39         Leak Clamps         N/A         NO         FLANGES PROPERLY ALIGNED & BOLTED.           V41         Insulation Other (Please explain)         N/A         NO         FLANGES PROPERLY ALIGNED & BOLTED.           V42         Damage         N/A         NO         FLANGES PROPERLY ALIGNED & BOLTED.           V43         Penetrations         N/A         NO         FLANGES PROPERLY ALIGNED & BOLTED.           V44         Insulation Jacket         N/A         NO         FLANGES PROPERLY ALIGNED & BOLTED.	V24	Saddle/Skirt	Accept		No	
V31         Connections Other (Please explain)         N/A         NO         ALL THREADED CONNECTIONS FULLY ENGAGED.           V32         Small Branches         Accept         NO         ALL THREADED CONNECTIONS FULLY ENGAGED.           V33         Nozzles         Accept         NO         NO VISIBLE LEAKAGES.           V34         Manways         N/A         NO         NO           V35         Reinforcing Pads         N/A         NO         Indequate Thread Engagement         N/A           V36         Inadequate Thread Engagement         N/A         NO         Indequate Thread Engagement           V37         Bolting         Accept         NO         FLANGES PROPERLY ALIGNED & BOLTED.           V39         Leak Clamps         N/A         NO         Indequate Thread Engagement           V41         Insulation Other (Please explain)         N/A         NO         Indequate Thread Engagement           V41         Insulation Other (Please explain)         N/A         NO         Indequate Thread Engagement           V42         Damage         N/A         NO         Indequate Thread Engagement         N/A         NO           V44         Insulation Other (Please explain)         N/A         NO         Indequate Thread Engagement         N/A	V25	Davit	N/A		No	
V32         Small Branches         Accept         No         ALL THREADED CONNECTIONS FULLY ENGAGED.           V33         Nozzles         Accept         No         NO VISIBLE LEAKAGES.           V34         Manways         N/A         No         No           V35         Reinforcing Pads         N/A         No         Indequate Thread Engagement         N/A           V36         Inadequate Thread Engagement         N/A         No         Inadequate Thread Engagement           V37         Bolting         Accept         No         FLANGES PROPERLY ALIGNED & BOLTED.           V38         Flanges         Accept         No         FLANGES PROPERLY ALIGNED & BOLTED.           V39         Leak Clamps         N/A         No         FLANGES PROPERLY ALIGNED & BOLTED.           V41         Insulation Other (Please explain)         N/A         No         FLANGES PROPERLY ALIGNED & BOLTED.           V42         Damage         N/A         No         FLANGES PROPERLY ALIGNED & BOLTED.           V43         Penetrations         N/A         No         FLANGES PROPERLY ALIGNED & BOLTED.           V44         Insulation Other (Please explain)         N/A         No         FLANGES PROPERLY ALIGNED & BOLTED.           V44         Insulation Other (Please expla	V26	Fireproofing	N/A		No	
V33         Nozzles         Accept         No         NO VISIBLE LEAKAGES.           V34         Manways         N/A         No           V35         Reinforcing Pads         N/A         No           V36         Inadequate Thread Engagement         N/A         No           V37         Bolting         Accept         No           V38         Flanges         Accept         No           V39         Leak Clamps         N/A         No           V41         Insulation Other (Please explain)         N/A         No           V42         Damage         N/A         No           V43         Penetrations         N/A         No           V44         Insulation Jacket         N/A         No           V44         Insulation Jacket         N/A         No           V45         Banding         N/A         No           V45         Seals/Joints         N/A         No           V51         Relief Devices Other (Please explain)         Accept         No           V52         Corrosion         N/A         No           V53         Leaks         N/A         No	V31	Connections Other (Please explain)	N/A		No	
V34         Manways         N/A         No           V35         Reinforcing Pads         N/A         No           V36         Inadequate Thread Engagement         N/A         No           V37         Bolting         Accept         No           V38         Flanges         Accept         No           V39         Leak Clamps         N/A         No           V41         Insulation Other (Please explain)         N/A         No           V42         Damage         N/A         No           V43         Penetrations         N/A         No           V44         Insulation Jacket         N/A         No           V44         Insulation Jacket         N/A         No           V45         Banding         N/A         No           V46         Seals/Joints         N/A         No           V51         Relief Devices Other (Please explain)         Accept         No         PSV PROPERLY SET & WITHIN SERVICE INTERVAL           V52         Corrosion         N/A         No         No	V32	Small Branches	Accept		No	ALL THREADED CONNECTIONS FULLY ENGAGED.
V35         Reinforcing Pads         N/A         No           V36         Inadequate Thread Engagement         N/A         No           V37         Bolting         Accept         No           V38         Flanges         Accept         No           V39         Leak Clamps         N/A         No           V41         Insulation Other (Please explain)         N/A         No           V42         Damage         N/A         No           V43         Penetrations         N/A         No           V44         Insulation Jacket         N/A         No           V44         Insulation Jacket         N/A         No           V45         Banding         N/A         No           V46         Seals/Joints         N/A         No           V51         Relief Devices Other (Please explain)         Accept         No         PSV PROPERLY SET & WITHIN SERVICE INTERVAL.           V52         Corrosion         N/A         No         No	V33	Nozzles	Accept		No	NO VISIBLE LEAKAGES.
V36         Inadequate Thread Engagement         N/A         NO         NO           V37         Bolting         Accept         NO         FLANGES PROPERLY ALIGNED & BOLTED.           V38         Flanges         Accept         NO         FLANGES PROPERLY ALIGNED & BOLTED.           V39         Leak Clamps         N/A         NO           V41         Insulation Other (Please explain)         N/A         NO           V42         Damage         N/A         NO           V43         Penetrations         N/A         NO           V44         Insulation Jacket         N/A         NO           V45         Banding         N/A         NO           V46         Seals/Joints         N/A         NO           V51         Relief Devices Other (Please explain)         Accept         NO         PSV PROPERLY SET & WITHIN SERVICE INTERVAL.           V52         Corrosion         N/A         NO         NO	V34	Manways	N/A		No	
V37         Bolting         Accept         No         FLANGES PROPERLY ALIGNED & BOLTED.           V38         Flanges         Accept         No         FLANGES PROPERLY ALIGNED & BOLTED.           V39         Leak Clamps         N/A         No         Insulation Other (Please explain)           V41         Insulation Other (Please explain)         N/A         No         Insulation Jacket           V43         Penetrations         N/A         No         Insulation Jacket         N/A           V44         Insulation Jacket         N/A         No         Insulation Jacket           V45         Banding         N/A         No         Insulation Jacket           V46         Seals/Joints         N/A         No         Insulation Jacket           V46         Seals/Joints         N/A         No         PSV PROPERLY SET & WITHIN SERVICE INTERVAL.           V51         Relief Devices Other (Please explain)         Accept         No         PSV PROPERLY SET & WITHIN SERVICE INTERVAL.           V52         Corrosion         N/A         No         Insulation Jacket         No           V53         Leaks         N/A         No         Insulation Jacket         No	V35	Reinforcing Pads	N/A		No	
V38         Flanges         Accept         No         FLANGES PROPERLY ALIGNED & BOLTED.           V39         Leak Clamps         N/A         No            V41         Insulation Other (Please explain)         N/A         No            V42         Damage         N/A         No            V43         Penetrations         N/A         No            V44         Insulation Jacket         N/A         No            V45         Banding         N/A         No            V46         Seals/Joints         N/A         No            V51         Relief Devices Other (Please explain)         Accept         No         PSV PROPERLY SET & WITHIN SERVICE INTERVAL.           V52         Corrosion         N/A         No            V53         Leaks         N/A         NO	V36	Inadequate Thread Engagement	N/A		No	
V39         Leak Clamps         N/A         No           V41         Insulation Other (Please explain)         N/A         No           V42         Damage         N/A         No           V43         Penetrations         N/A         No           V44         Insulation Jacket         N/A         No           V45         Banding         N/A         No           V46         Seals/Joints         N/A         No           V51         Relief Devices Other (Please explain)         Accept         No         PSV PROPERLY SET & WITHIN SERVICE INTERVAL.           V52         Corrosion         N/A         No         No           V53         Leaks         N/A         No	V37	Bolting	Accept		No	
V41         Insulation Other (Please explain)         N/A         No         No           V42         Damage         N/A         No         No           V43         Penetrations         N/A         No         No           V44         Insulation Jacket         N/A         No         No           V45         Banding         N/A         No         No           V46         Seals/Joints         N/A         No         PSV PROPERLY SET & WITHIN SERVICE INTERVAL.           V51         Relief Devices Other (Please explain)         Accept         No         PSV PROPERLY SET & WITHIN SERVICE INTERVAL.           V52         Corrosion         N/A         No         No           V53         Leaks         N/A         No         No	V38	Flanges	Accept		No	FLANGES PROPERLY ALIGNED & BOLTED.
V42DamageN/ANoV43PenetrationsN/ANoV44Insulation JacketN/ANoV45BandingN/ANoV46Seals/JointsN/ANoV51Relief Devices Other (Please explain)AcceptNoV52CorrosionN/ANoV53LeaksN/ANo	V39	Leak Clamps	N/A		No	
V43PenetrationsN/ANoV44Insulation JacketN/ANoV45BandingN/ANoV46Seals/JointsN/ANoV51Relief Devices Other (Please explain)AcceptNoV52CorrosionN/ANoV53LeaksN/ANo	V41	Insulation Other (Please explain)	N/A		No	
V44Insulation JacketN/ANOV45BandingN/ANOV46Seals/JointsN/ANOV51Relief Devices Other (Please explain)AcceptNOV52CorrosionN/ANOV53LeaksN/ANO	V42	Damage	N/A		No	
V45     Banding     N/A     No       V46     Seals/Joints     N/A     No       V51     Relief Devices Other (Please explain)     Accept     No     PSV PROPERLY SET & WITHIN SERVICE INTERVAL.       V52     Corrosion     N/A     No       V53     Leaks     N/A     No	V43	Penetrations	N/A		No	
V46     Seals/Joints     N/A     No       V51     Relief Devices Other (Please explain)     Accept     No     PSV PROPERLY SET & WITHIN SERVICE INTERVAL.       V52     Corrosion     N/A     No       V53     Leaks     N/A     No	V44	Insulation Jacket	N/A		No	
V51 Relief Devices Other (Please explain) Accept No PSV PROPERLY SET & WITHIN SERVICE INTERVAL.  V52 Corrosion N/A No  V53 Leaks N/A No	V45	Banding	N/A		No	
V52 Corrosion N/A No V53 Leaks N/A No	V46	Seals/Joints	N/A		No	
V53 Leaks N/A No	V51	Relief Devices Other (Please explain)	Accept		No	PSV PROPERLY SET & WITHIN SERVICE INTERVAL.
	V52	Corrosion	N/A		No	
V54 Restricted Inlet/Outlet N/A No	V53	Leaks	N/A		No	
	V54	Restricted Inlet/Outlet	N/A		No	



### PRESSURE VESSEL & COLUMN INSPECTION REPORT

	LSD	06-09-05	0-19W5 <b>Date</b>	<b>2014-05-1</b>	2 SAP Equipment ID	66048297	
V55	Manual Operation Lever	N/A		No			

# 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	(HEAD)	19.61	24.89	0.0000	0.0000	198.0	2014/05/12	
10	(SHELL)	26.21	26.34	0.0000	0.0000	198.0	2014/05/12	
15	(SHELL)	26.21	26.37	0.0000	0.0000	198.0	2014/05/12	
20	(SHELL)	26.21	26.97	0.0000	0.0000	198.0	2014/05/12	
25	(90L 2.5 XXS)	14.02	12.37	0.0996	0.0996	97.8	2014/05/12	
30	(90L 3 40)	5.49	5.61	0.0000	0.0000	198.0	2014/05/12	
35	(90L 3 40)	5.49	6.22	0.0000	0.0000	198.0	2014/05/12	

Inspected By	Signature	CGSB Level	CGSB No.	Survey Date	UT Equip	Due Date OF Calibration	NDE Procedure No.
Jamey Tanasichuk	451	1	11444	05/12/2014	109_81583903_EPOCH 4	06/17/2014	WQS UT-001



### Client:

## **HUSKY ENERGY**

### **EXAMINATION ILLUSTRATION**

DISTRICT:	FOOTHILLS ANSELL	FACILITY:	ANSELL	LOCATION/LSD:	06-09-050-19W5
EQUIP NAME:	SEPARATOR			PROV REG No.:	A#0446816
SERIAL No.:	5349 <b>Equip No.</b> :		66048297	National Board No.:	











NOTES:



### Client:

## **HUSKY ENERGY**

## **PHOTOGRAPHS**

EQUIP NAME:	SEPARATOR			PROV REG No.:	A#0446816	
SERIAL No.:	5349	Equip No.:	66048297	National Board No.:		



NAMEPLATE



OVERALL





OVERALL





PSV TAG