

		Client Project Location	Encana Farmington Water Resource Hub 16-36-078-17 W6M		Proj No. Requisition PO Number	TBD 1800-0043 53181		 SOLARIS MANAGEMENT CONSULTANTS INC.		CORIOIS
Rev	Date	Status	Process	Prepared	Checked	Approved	Tag Number			
A	3/6/2014	Preliminary	JQW	CMN	AMN	WAT	FQIT-1031C			
B	4/29/2014	Issued For Quotation	JQW	CMN	EWK	AMN				
0	6/13/2014	Issued For Purchase	JQW	ABR	EWK	AMN	Supplied By Spartan Controls		Rev 0	
1	Service	WRH Produced Liquids from 15-27/9-27 Flow			Fluid Name		Hydrocarbon liquids			
2	P&ID No:	STN2709C			Fluid State		Liquids			
3	Line Number	RW-1083-CABZ-8"-38HGT			Area Classification		Class I, Zone 2, Gr IIA			
4	Line Size/Sch In/Out	219mm (8")	80	219mm (8")	80	Ingress Protection	NEMA 4X			
5	Line Material/Insul'n	Low Temp CS (Note 3)		38 mm	Process Connection	219mm (8") 900# RF x 219mm (8") 900# RF				
PROCESS CONDITIONS										
		Min	Norm					Units		
6	Pressure			173	kPag	Design Pres	9928	kPag		
7	Temperature	7		16	°C	Design Temp	-45	54	°C	
8	Flow (Gas)					Critical Pres	99491	kPaa		
9	Flow (Liquid)	14.9		298.1	m³/hr	Critical Temp	667.5	°C		
10	Vapour Pressure			94	kPaa	Molecular Weight	23.28			
11	Viscosity			2.1	cP	Compress Factor				
12	Density				kg/m³	Ratio Spec Heat				
13	Specific Gravity			0.92	1.2	Ambient Temp	-40 to 50	°C		
14	Bi-Directional Flow				No	Max ΔP Allowable				
15	Entrained Liq % by Vol					Actual Max ΔP				
16	Build-Up Tendency					Other				
17	Pulsating Flow									
18					Max			Min	Max	
SENSOR										
19	Manufacturer	Micro Motion			No. of Tubes	2				
20	Model	CMFHC3M819N2BAEZZZMCREHTWPIC			Tube Design	"U" Shape				
21	Sensor Type	Coriolis ELITE High Capacity Sensor			Face-to-Face	1245mm (49.01")				
22	Body Type	Flow Tube			Orientation	Tubes down				
23	Nominal Size	8"			Tag	FE-1031C				
24	Internal Diameter	TBD								
25	Body Material	316L SS								
26	Flow Tube Mat'l	316L SS Wetted Parts								
27	Lining Mat'l	N/A								
28	End Connection	219mm (8") 900# RF								
TRANSMITTER										
29	Manufacturer	Micro Motion			Output Signal	4 - 20 mA				
30	Model	2700R12ABAEZCZPK			Protocol/Version	1x mA Analog Output/ 1x Frequency / RS-485				
31	Transmitter Type	Flow Totalizing Indicating Transmitter			Housing Material	Painted Aluminum				
32	Instrument Range	0		2125	m³/hr	Mounting Style	Remote			
33	Velocity Range	0.3		4.3	m/s	Mounting Bracket	Remote mount / 2 Pipe stand			
34	Calibrator	1st	24.5	33	m³/hr	Interconnect Type	4 Wire Shield	Model No	CMVDSZ050	
35	Range	2nd	0	1500	kg/m³	Cable Length	15 m (50 ft)	Supplied By	Vendor	
36		3rd				Elec Connection	1/2" NPT			
37	Accuracy	± 0.5%			Power Supply	24 VDC				
38	Local Display	Yes			Burnout (Fail)	TBD				
39	Other				Tag	FQIT-1031C				
40										
41										
42										
OPTIONS										
43	Testing Certificates	Yes								
44	NACE	No								
45	Special Cleaning	No								
46	Factory Calibration	Yes								
47										
48										
NOTES										
1	All Instruments shall be identified with Stainless Steel tags									
2	All electronics must be CSA approved Class 1, Zone 2, Groups IIA and rated to -40 °C									
3	Piping Material: CSA Z245.1 Grade (241-359) Cat II, M45C. Alt. ASTM A333 Gr. 6, SMLS, Sch 80.									
4	BC CRN shall be provided									
5	Coriolis Flow meter is supplied c/w Insulation Jacket P/N INSJKTCMFHC3M									
6										
7										
8										