Date 3/23/2015 INSTALL SHEET (Q330 Surface Site with Wilan Telemetry) Local Date/Time: 10:35 Am GMT Date/Time	Station 2000 E 1
Field Team: Tanner, Part	
GPS Location of Site:	E .
Equipment	57.0
Sensor S/N: 40344 Sensor T	<u>.</u> .
BAS S/N: 0100000A27ACL88D	(==TD: 849
-Modern S/N: W330 FP: 204114,79.56 Modern Raba	<u>07013</u>
Clock S/N:	,
Flash Disk 1 S/N:	25 ALD 108
Flash Disk 2 S/N:	itch 2000 SW3
INSTALL SENSOR Record the declination of your compass degrees W / E (ci	role one)
Place an arrow on the figure below showing where the declination mark	And the state of t
avoid sign errors)	s is position on this compass (cross check against above to
	a map of the
E Junion V	N drift
	No. of the state o
Guralp 3T	
Add layers of landscaping timber to provide clearance for this la	arger sensor
Sweep any dirt from the top of the concrete base Attach the alignment jig and use it to simultaneously level and of	orient the sensor
Lock feet of sensor Connect the sensor cable to the sensor and then to the DAS (lear	
Reattach the alignment jig and fill out the alignment table below degree align and relevel before making final measurements. Trillium or STS2 Sweep any dirt from the top of the concrete pad WA Use a ruler and sharpie to scribe an alignment line on the concrete pad Connect the sensor cable to control box and sensor Align the sensor using the mark and the alignment rod, level, re	y (4 measurements). If initial orientation is off by more than
ALL SENSORS	•
<u>M/A</u> Cut a length of 2" fire hose to run from sensor vault to DAS ence <u>M/A</u> Use a fish tape to pull the DAS to control box cable through the Unlock masses	
Center masses Working with your partner verify the sensor is functional with a	stomp test
Install vault cover with screws Cover vault with at least 2 layers of black plastic	W
Bury sensor using sandbags filled with dirt, mound dirt ton top	of vault cover, and add mulch to top

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1 11 (+1	Experiment
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Carron III al Carron	7000 E
Station Name	MIL

Use Brunton compass adjacent to sensor measurement jig, measuring North (N) and South (S). Reverse the jig and repeat recording the 4 measurements below. Record to your best guess of the nearest 0.1 degree. If orientation is more than 1 degree away from NS try to realign. For Trillium and STS2 sensors use left and right side of alignment rod

Brunton Left (N)	Brunton Left (S)	Brunton Right (N)	Brunton Right (S)
*			
		A- 12 - A	l .
	L. S. Joseph J. St.	The state of the contract of t	

Q330 Hardware	e Setup	
	panels on post using brackets and wood screws.	
	e guy wires if necessary	
	og house near the solar panel pole with the door facing downhill to allow water	n to duain
		r to drain
	on top of pole (must see the sky)	
	n radio on the pole (make sure the antenna is on the side facing Yates)	
X_Run GPS an	nd network cables and connect to Q330 (do not bundle up until testing is finish	ned)
\angle Connect the	e baler to the Q330	
Power system t	tests:	
Initial battery vo	oltage (V) N/A	
Solar panel outp	put test:	
	on when tested (circle one): (a) sun on panels, (b) cloudy, (c) sun on panels at	low angle
Panel 1 outp	out (V) \mathcal{NA}	
Panel 2 outp		
Equipment pow		
N/A Dia 1 -44	power box is set for sealed battery mode	
	v into power box. Record voltage showing on LCD display (V)	
	th solar panels to power box. Record voltage on display (V)	
	ok, connect the Q330 to power (Note with Guralp unlock cannot happen till no	ow)
Check here	when the GPS LED goes yellow	
Name and the second sec	good joine !!	
Q330 Operations	with the Clie (program Q330B147 on the SONY Clie PDA)	
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Date 3/25/2015	Station_	2000E	3
SENSOR Unlock Procedure			
CMG-3T: Attach extra power to 3T BOB. Use the BOB to test if the se	ensor is locked.	Press and hold both	the Lock and
Enable Buttons for about 10 seconds. Watch the LED light (use.)	4-6 blinks in ~3	3 sec = Locked: indi	cates OK to
Next, unlock the sensor. Press and hold both the <u>Unlock</u> and	Enable Button	s for about 10 secon	ds Release
buttons when the LED light illuminates (2 blinks and solid re			ds. recrease
TURN OVER	ed marcates um	ocking.)	
STS-2: Use an STS-2 screwdriver to smoothly unlock all 3 elements	Give the STS	2 and initial centeri	na pulce
using the button on the host box.	s. Give the 313	-2 and initial conten	ng puise
Views > Sensor: !Center A (STS-2)			
Views->System: *Main Current: 54 m A *Input Volts: 12.45 V *Ant. Current: N/A *Temp: 20 C	(>12.5 full	l sun, >11.5 no sun)	
*Q330 SW Vers: 1.145 *Last Boot: 2015-03-25 16	: 36 *Last Da	2015-02-75	16.31
			-0, 26
*Phase *Clock: *Last Lock: 295-03-25 6:44:59 *Phase *Clock Quality: 100%	error:		
*GPS Date: 3 *GPS	25/03/2015	(given in DD/N	MM/YYYY)
*Height: 1638.1 m *Latitude: 44° 21′ 6.054" N	*Longitu	ide: 103° 45' 4.296	46
Views -> Sensors ! Refresh *Boom Positions (within +/-15, i.e. within +/-1	.5 volts)		T. C.
17 -6 -6	,		
1123	100000		
** If the Boom Positions are out – recenter sensor: Views ->Sensors	!Center A		
☑ Views ->Quickview ->chan 1,2,3 -> !Start Stomp test: ch 1: ☑ OK ch 2: ☑ OK			
ch 3: 🖄 OK (stomp seen?) -> !Stop			
Write values:			
ch 1: max min RMS			
ch 2: max min RMS			
ch3 max min RMS 10,000 counts)			
(Values should be ~10,000 counts)			
Status -> Data Port Txfr -> Data4 *Packet buffer used (increasing?) (YE) NO		
 ✓ Commands ->Baler Cmds Turn on baler power control ✓ !Send Baler Command (Baler should turn on) Do NOT 		on to power baler	
Note: If the baler times out BEFORE finis	shing REPEAT		
Status -> Data Port Txfr -> Data4 *Packet Buffer (Decreases to zero)	YES NO		
*Data packets sent 606			
NOTE: If the Q330 does not transfer data to the Baler try clearing the Baler "	association" by	holding in the bale	r Attention
button in until the light turns solid red (~5 sec). Release the button and then, a Attention button once to shut down the Baler. Repeat the process once more a	after the light be and then try to t	egins to flash green, ransfer data to the B	press the aler.
X Status->General*Total ReSyncs 213			
Views -> Sensor: *Boom Positions (less than +/-15, i.e. less than +/-1.5 vo	olts)		

SITE NOTES (Anything strange or notable)

☐ App ->Make Docfile !OK to default filename Conf-YrMoDy-Q330 ___

Checklist

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Paperwork
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Completed pages 1-3

Sensor

J/A Compass declination set and recorded

✓ Oriented:

× Level

≯Feet locked

Power system

X Battery terminals tight

All power box connection tight Any external power cables to box secured from rodent damage

MACables in the air have drip lines

N/No cables are on the ground without protection

SOLAR: panel boxes closed

✓ AC: battery minder plugged in powered

Q330

✓ Completed paperwork on pages 1-2

★ Acquiring data

★ All unused connectors capped

Site

__Multiple layers of plastic on top of vault

Plastic configured to not collect water around sensor vault

Vault well covered with sandbags and dirt (6 inches minimum)

Cables all secured

Dog house door is secured

Cable entry plugged with plumber's putty

Inventory

5T5-2/2x orange cable, breakout bux

Q330 + baler

Q330 Serial -> Baler + balor power cable
Q330 QNET + power + ether net cable

GPS transceiver + cables + converter

Battery t battery tender

Large tub Small tub