

1-6-7 test-

6107338-9

INTEROFFICE CORRESPONDENCE

date January 10, 1980
 to RRGa Site Superintendent
 from Test Planning & Coordination
 subject PULL & RE-RUN CENTRILIFT PUMP IN RRGE-1 - FET-2-80

Approved By:

Reservoir Eng. (Review) _____ Date _____
 Project Eng. (Review) _____ Date _____
 S&I Manager _____ Date _____
 Environmental Eng. _____ Date _____
 RRGa Eng. _____ Date _____
 Safety Eng. _____ Date _____
 Chemistry Eng. (Review) _____ Date _____
 Quality Review Only _____ Date _____

Review/Concurrence

 G. M. Millar Date
 Testing & Facility Branch

Authorized for Release

 L. F. Walrath Date
 Test Planning & Coordination

*Review and standard
 Approx 19pm/ft sp. cap -
 1500 gpm @ 1500 ft
 pump at 2100
 available 5 @ 2000
 should be OK*

DUM

DOCUMENT REVISION REQUEST

② REQUESTER	③ DRR DATE	④ DRR NO.
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⑤ DOCUMENT NO. (IF APPLICABLE)	DOCUMENT TITLE	DOCUMENT ISSUE DATE
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⑥ CHECK APPLICABLE BLANK PERMANENT CHANGE _____ TEMPORARY CHANGE _____ BULLETIN _____	⑦ MANAGER APPROVAL _____ DATE _____
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⑧ PRINT OR TYPE PROPOSED CHANGE — NUMBER EACH CHANGE SEQUENTIALLY IN 1ST COLUMN AND RECORD PAGE AND STEP OR PARAGRAPH NUMBER FOR EACH CHANGE.	⑨ FOR WRITER'S USE
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ITEM	PAGE	STEP OR PARA.	INSTRUCTIONS: REWRITE PARAGRAPH(S) OR FOR EXTENSIVE CHANGES ATTACH REVISED COPY AND STATE "REVISE PER ATTACHED COPY". FOR NEW DOCUMENT, ATTACH ROUGH DRAFT AND STATE "PREPARE NEW (SP, DOP, ETC.) PER ATTACHED DRAFT".

USE CONTINUATION SHEET AS REQUIRED
NEXT ANTICIPATED NEED FOR DOCUMENT WITH THIS REVISION INCORPORATED: DATE/EVENT _____

⑩ JUSTIFICATION: (REASON FOR CHANGE — NUMBER TO CORRESPOND TO ITEM NO. ABOVE):	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3" style="text-align: left;">⑪ OTHER DOCUMENTATION AFFECTED:</th> </tr> <tr> <th style="width: 33%;">DOC. NO.</th> <th style="width: 33%;">DRR NO.</th> <th style="width: 33%;">DATE COMPLETED</th> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	⑪ OTHER DOCUMENTATION AFFECTED:			DOC. NO.	DRR NO.	DATE COMPLETED																		
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								QUALITY DIV.	
								SAFETY DIV.	
								PRAC	

⑮ COMMENTS:	⑯ ADDITIONAL DRRS IN THIS DOCUMENT REVISION	
⑰ DOCUMENT CONTROLLER	⑱ RELEASE DATE:	⑲ DRR COMPLETED DATE:

Change Procedure

Changes to this procedure shall be made utilizing Form EG&G 1844, Document Revision Request. Changes shall be approved, block 7, by the Geothermal Testing Shift Supervisor using technical or other input if required. Test planning and coordination approval is required on all changes and will determine other approvals needed.

Copies of DRR's shall be distributed as follows:

- *Original attached to Execution Copy of this procedure.
- *Copy to Geothermal Technical Development CDCS at EGG Building -
(Nancy McLain).

1.0 Purpose

The purpose of this procedure is to detail the pulling and re-installation of the downhole Centrilift pump in RRGE-1. The pump failed on startup of the 21 day RRGE-1 to RRG1-7 test per FET-7-79.

2.0 Responsibilities

- 2.1 Raft River Geothermal Area (RRGA) will have overall responsibility for the work. RRGA will do all callouts, rig supervision, and will supply off-rig assistance as required. RRGA is responsible for overall safety and proper execution of this procedure. RRGA is responsible to assure all quality verification points are completed per this procedure.
- 2.2 Test Planning & Coordination (TP&C) will have responsibility for procedures, scheduling, and overall coordination of the work.
- 2.3 Engineering Support will assist and consult as required.
- 2.4 Quality inspection will verify certain test steps as specified and overall compliance with this procedure.

3.0 References

- 3.1 Centrilift submersible pumps Field Service Manual.
- 3.2 EG&G Hoisting and Rigging Manual.
- 3.3 EG&G Dwg. 411900 - pump installation.
- 3.4 RR SP 1.19 "Acquisition, Control, Distribution, and Storage of Data".

4.0 Safety

- 4.1 All personnel involved with operating experiments at Raft River will be under the cognizance of the RRGA Site Superintendent and subject to written site operating rules.
- 4.2 Any tests or procedure deemed unsafe will be shut down by the RRGA Site Superintendent, the TP&C Representative, or the Safety Division Representative.
- 4.3 RRGA is responsible for all site safety. Any unsafe condition developing through the operation of an experiment shall be reported immediately to the RRGA Site Superintendent, his assigned designate, or the Shift Supervisor.
- 4.4 Safety Manual uses required:
 - 4.4.1 Hazardous Material Safety No. 6020.
 - 4.4.2 Material Handling Safety No. 6030.
 - 4.4.3 Electrical Safety No. 6040.
 - 4.4.4 High Pressure/Temperature System Safety No. 6060.
 - 4.4.5 General Protective Clothing and Equipment No. 6070.
 - 4.4.6 Fire Protection System No. 7030.

4.5 Additional safety documents:

4.5.1 "Geothermal Well Re-Entry", SHA-22-79, dated 8-29-79.

5.0 Material and Equipment

- 5.1 Protective shipping boxes for Centrilift pump.
- 5.2 Forklift with wide spaced forks.
- 5.3 Approximately one foot diameter sheave for running the bubbler tube.
- 5.4 Approximately 54 inch diameter sheave for running the Centrilift power cable.
- 5.5 Gas "Rosebud" for preheating casing prior to welding locktabs and post-heating following welding.
- 5.6 Spider rack.
- 5.7 Nitrogen bottle, tubing, and fittings for bubbler tube.
- 5.8 Twelve inch Hydril.
- 5.9 Stabbing valve for 8-5/8" casing.
- 5.10 Temporary heated shelter for spooling up the Centrilift power cable.
- 5.11 Rubber thread protectors.

6.0 Prerequisites for Pulling Pump

- ___ 6.1 The RRGE-1 wellhead is stripped to the 12" master valve. All hardware including instrumentation removed is stored in accordance with good industrial practice, and such items as studs and nuts are properly tagged.
- ___ 6.2 The site is cleared of all unnecessary hardware in preparation for the workover rig. The wellhouse has been removed from the wellsite and secured from wind damage.
- ___ 6.3 All outside services are on site: workover rig, casing crew, tool truck, and Centrilift service hand. The rig has moved on.
- ___ 6.4 The stinger has been lifted and the packer is shut, i.e., the well is dead.
- ___ 6.5 A safety and procedural briefing has been held with all participants.
- ___ 6.6 A RRGa technician is at the well site to cut the casing weld tabs.
- ___ 6.7 All hardware per section 5.0 relevant to pulling pump is at the wellhead.
- ___ 6.8 Pump power supply has been locked out in a safe configuration.

6.8 Centrilift service hand to perform resistance checks on pumps.

Phase to Ground

1	2	3
_____	_____	_____
_____	_____	_____
_____	_____	_____

Phase to Phase

1-2	2-3	1-3
_____	_____	_____
_____	_____	_____
_____	_____	_____

6.9 Ensure requirements of Safety reference 4.5.1 are met.

6.0 Prerequisites complete

QA

Time	Date	Signature
_____	_____	_____

7.0 Procedure: Pull Centrilift Pump

7.1 Secure the stinger cable to the rig using crosby clips, comealong, and short length of 5/16 wire rope, or as required.

7.2 Disassemble the Centrilift cable packoff, bubbler tube packoff, and stinger cable packoff including loop.

7.3 Carefully remove hanger spool from pump casing and thread Centrilift cable, bubbler tube, and stinger cable down through hanger spool. Properly store hanger spool away from work area.

7.4 Ensuring that the Centrilift cable and bubbler tube are not snagged lift and remove top casing section, cutting bands and weld tabs as as required. This will allow enough cable and tube to set up sheaves and spools. Save rubber grommets and tag, they may be reusable.

7.5 Set up temporary shelter for cable sheaves (item 5.10). Set up sheaves and spool for Centrilift cable and bubbler tube and start spooling as casing is pulled.

7.6 Continue pulling casing, cutting bands and weld tabs as required. Number all casing sections and rack on dunnage. Inspect casing and threads for damage and note any damage on comment sheet. Record total number of casing sections removed _____.

7.7 When pump is out of the hole, remove the PSI unit and lay it down. Use cherry picker and nylon slings to lift and laydown in 601 Bldg. (or as directed by Centrilift).

7.8 Lower unit into slips. Disconnect lower motor from upper motor; raise remaining assembly; use cherry picker and nylon slings to lift lower motor and laydown in 601 Bldg.

- ____ 7.9 Lower remaining assembly into slips. Disconnect pump from upper motor; raise pump; use cherry picker and nylon slings to lift upper motor and lay down in 601 Bldg.
- ____ 7.10 Lower Pump onto subfloor. Use cherry picker and nylon slings to lift pump and lay down in 601 Bldg.
- ____ 7.11 Assist Centrilift service hand in inspection of pump/motors.
- ____ 7.12 Based on Centrilift service hand recommendations, coordinate actions with Engineering (Berglund) and TP&C (Hauth). Record actions below.

Procedure 7.0 complete

Time	Date	Signature
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8.0 Prerequisites for Centrilift Pump Installation

- 8.1 Centrilift service hand is on site.
- 8.2 Stinger and wire rope installed but stinger not seated.
- 8.3 Well is dead - packer sealing properly.
- 8.4 Workover rig and crew moved on the wellhead.
- 8.5 Hydril and adapter spool piece is mounted on master valve, stabbing valve for 8-5/8" casing on standby.
- 8.6 The 8-5/8" K-55 32 lb/ft casing is strapped, numbered, and racked on dunnage at the well site. Threads are cleaned and ready for installation of rubber thread protectors, as required.
- 8.7 A welder is on site.
- 8.8 All Centrilift pump hardware is at the well site, per direction of service hand.
- 8.9 All material per section 5.0 relevant to pump installation is at the well site.

- 9.13 Assure the stinger line is protected around the spider and tied off so it will give if snagged going down. Suggested method to permit slippage is to bolt stinger line between two wood blocks and secure the blocks to wellhead. End of line should be secured around one of the 3 inch expansion spool valves.
- 9.14 Assure the Centrilift cable sections have been checked with an ohmmeter by the Centrilift Service hand. New cable should read near infinity both phase to phase and phase to ground. Record ohmmeter readings for each section of cable to be used, including the pigtail.

QA	Cable Length	Phase to Ground			Phase to Phase		
		Phase 1	Phase 2	Phase 3	1-2	2-3	1-3
	Pigtail	_____	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____	_____	_____

Assure there is enough cable to set the pump at the selected depth. See step 9.2.

- 9.15 The sheaves for the bubbler tube (Material item 5.3) and the Centrilift cable (Material item 5.4) should be in place, using the temporary shelter.
- 9.16 Assist the rig crew and Centrilift service hand in assembling the pump motor, flat cable pothead, pump and 8-5/8 inch sub in the well.

QA Record resistance values on pump motors if made at this time by the Centrilift Service hand.

Phase to Ground			Phase to Phase		
Phase 1	Phase 2	Phase 3	1-2	2-3	1-3
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

- 9.17 When the pump is at a convenient height above the master valve, position and band the bubbler tube approximately 3 feet above the pump suction. See Dwg. 411900. End of tube should be approximately 2 inches below the band. Install a 1/4" Swagelok fitting on the end of the bubbler tube to prevent it slipping up through the bands.

Measure and record the distance from the pump suction to the end of the bubbler tube to the nearest tenth of a foot _____ ft.

____ 9.18 Assure the bubbler tubing bore is open by purging the spool of tube with air or nitrogen gas.

As the pump and casing is run into the well, band the bubbler tube using grommets as required.

NOTE: Centrilift cable and bubbler tube should be banded opposite the stinger cable.

____ 9.19 Assure that casing threads are coated with thread compound, torqued, and lock tab welded per Dwg. 411900. The minimum torque values are preferred for ease of disassembly. Preheat weld areas of casing to 400 - 500°F using a gas "rosebud". Test with tempil stick as required and weld tabs with E7018 low hydrogen coated rod.

QA

____ 9.20 Assure that banding interval meets Centrilift requirements.

____ 9.21 Watch the stinger line for indication that the pump or casing is dragging on it. Give stinger line a pull, as required, to assure it is free. Take care not to pinch the stinger wire with casing, slips, etc.

____ 9.22 Record resistance values when cable is spliced if measured at the time by the Centrilift Service hand.

<u>Splice No.</u>	<u>Phase to Ground</u>			<u>Phase to Phase</u>		
	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>1-2</u>	<u>2-3</u>	<u>3-1</u>
1 _____	_____	_____	_____	_____	_____	_____
2 _____	_____	_____	_____	_____	_____	_____
3 _____	_____	_____	_____	_____	_____	_____
4 _____	_____	_____	_____	_____	_____	_____
5 _____	_____	_____	_____	_____	_____	_____

QA

____ 9.23 Bolt the landing sub to the landing spool. Assure pump landing spool threads are coated with Baker-Lok prior to assembly to the last joint of casing.

____ 9.24 Assure that the 12 inch ring joint gasket is secured in place on the pump landing spool below the flange prior to screwing the spool on to the last joint of casing (Dwg. 411900). Suggested method is to use small diameter rope or insulated wire through the gasket and secure to the bolt holes. Avoid scratching the gasket. Torque the landing spool per Dwg. 411900.

____ 9.25 Position the pump landing spool at a convenient height above the master valve and hold in place for the purpose of threading the bubbler tube, Centrilift cable and stinger cable through the pack-off glands.

- 9.26 Attach a short length of 5/16 inch cable to the stinger line close to the master valve and snug up to a convenient place on the work-over rig. Use a come-along if required. Avoid letting the line go slack in the well.
- 9.27 Cut the bubbler tubing at a convenient place allowing enough length to thread through the pack-off. Thread the tubing through the ring joint gasket and the pack-off (see detail, Dwg. 411900). Do not install the swagelok fitting and shut off valve.
- 9.28 Under the direction of the Centrilift service hand, cut the Centrilift cable and thread through the ring joint gasket and pack-off gland (see detail, Dwg. 411900). Do not install the 2 inch pack-off gland.
- 9.29 Apply the last band or bands.
- 9.30 If the Baker packer is leaking open the 3 inch wellhead expansion spool valves to keep pressure off the landing spool pack-off glands.
- 9.31 Carefully lower the pump landing spool in place; and two hole the pump hanger spool. Don't let the stinger cable go slack but observe that it runs freely through the pack-off hole.
- 9.32 Install the master valve/landing spool flange bolts and make up. Tighten diametrically opposite bolts in pairs. Tighten uniformly.
- 9.33 If the Centrilift Service hand makes a resistance check at this time, measure and record below:

<u>QA</u>	<u>Phase to Ground</u>	<u>Phase to Phase</u>	
	<u>Phase 1</u> <u>Phase 2</u> <u>Phase 3</u>	<u>1-2</u> <u>2-3</u> <u>3-1</u>	
	_____	_____	
	_____	_____	
	_____	_____	

- 9.34 Strip Centrilift cable armor, install the pack-ff (dwg. 411900) and plumbers wool and inject the WKM plastic packing.
- 9.35 Cut the bubbler tubing and install the SS-400-1-4BT swagelok fitting and Whitey valve (Dwg. 411900). Connect to the nitrogen bottle and establish bubbler tube pressure.
- 9.36 Install the stinger wire pack-off gland (Dwg. 411900) but do not make up the TFE ferrules on the SS 500-1-4-BT swagelok fitting and do not inject WKM sealant. Adjust the stinger line using the come-along and install a cable clamp on the main line (see stinger wire rope pack-off detail Dwg. 411900) as a temporary holding device.

9.37 Slack off on the come-along while observing for any slippage of the wire through the cable clamp. Make up the loop arrangement shown on the Stinger Wire Rope Pack-Off Detail (Dwg. 411900). The lowest of the two Crosby clips should be approximately 24 inches above the top of the swagelok fitting. Now mark the cable with spray paint 16 inches above the cable clamp installed in step 9.36. Sixteen inches is the distance the stinger will be lowered to open the Baker packer flapper valve. Reattach the stinger wire to the workover rig using a come-along and slings as required. Assure that the come-along is capable of 16 inches of travel to lower the stinger.

9.38 Assist the Centrilift service hand in wiring up the pump to the Junction Box.

CAUTION: Assure the air switch at the power pole is locked open.

9.39 Record resistance values at the Centrilift Switchboard after wiring is complete.

QA	<u>Phase to Ground</u>			<u>Phase to Phase</u>		
	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>1-2</u>	<u>2-3</u>	<u>3-1</u>
	_____	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____	_____
	Procedure 9.0 complete			_____	_____	_____
				Time		Date

10.0 Seating the Stinger

Procedure 10.0 started _____

 Time Date

10.1 Assure that procedure 9.0 is complete.

10.2 Remove the 8-5/8" sub from the pump hanger spool and reinstall the 8" power seal valve, 1V2. Close the valve. Install a temporary pressure gauge (approximately 0-200 psig) on the wellhead annulus.

10.3 If the packer is leaking close the 3" expansion spool valves to pressurize the well. If the packer is not leaking pressurize the well through one of the 3" expansion spool valve with domestic water.

10.4 Remove the cable clamp installed in step 9.36 and move 16" to the mark made in step 9.37. Lower the stinger until the cable clamp comes to rest.

10.5 Test for opening of the flapper valve as follows: (a) close isolation valve and disconnect the pump discharge from the well. (b) Install the well warm-up line if not already in place. Flow the well to the pond via the warm-up line. If flow does not decay, close the valve and record the well pressure _____ psig.

If (b) indicates the flapper valve is not open, record the corrective action below:

Procedure 10.0 complete _____
Time Date

11.0 Pump Testing

11.1 Purpose: The purpose of this test is to assure that the Centrilift pump as installed meets Centrilift performance requirements.

A second purpose is to gain operating experience with the Centrilift pump to permit smoother start up for future S&I tests.

11.1.1 General: Any changes to this procedure made during the test shall be documented. All changes must be approved by the operation supervisor in advance of initiating change.

11.2 Prerequisites

____ 11.2.1 Piping modification at well site #1 is complete per requirements of Dwg. No. 1570-RRGE-102-1.

____ 11.2.2 Orifice plates have been installed and flow curves are available for operators.

Verification of correct orifice installation

RRGA QA

4.000 orifice installed in 8" line at well site #1
1.810 orifice installed in 3" line at well head #1

____ 11.2.3 Instrumentation and controls shown on Dwg. 412640 have been installed. For pump test only those instruments shown at well site #1 need be considered.

____ 11.2.4 Prestart ehcks have been completed on Centrilift pump, switchgear and PHD instrument by Centrilift Field Representative. Name of Centrilift Field Representative - _____

QA

High Current Trip Set at _____ amps.
Low Current Trip Set at _____ amps.
Current Trips strip switchgear
PHD instrument set at _____ psig.
_____ °F.

PHD instrument trips strip switchgear.

Centriguard is on manual restart.

- ___ 11.2.5 Relief valve 1RV-10 at well #1 is set to relieve at 120 psig.
- ___ 11.2.6 Pressure switch PS 1-41A is set to trip pump at 140 psig. This switch can be reset up to 200 psig if required for this test only.
- ___ 11.2.7 Valves are in position as required by Table 1.
- ___ 11.2.8 Control valve (1V6) has been operated from full open to full closed.
- ___ 11.2.9 All instruments are on and are responding properly.
- ___ 11.2.10 Ensure that well #1 has been purged of salt. If not continue artesian flow from well #1 to pond at well #6 until salt is removed from well #1.
- ___ 11.2.11 Ensure that all operators have read and understand this procedure.
- ___ 11.2.12 Remote stop and start switch for Centrilift pump has been installed in Bldg. 601.
- ___ 11.2.13 Have D.C. volt meter ready for use at pump junction box.
- ___ 11.2.14 Have Raft River Electric Coop. representative on site to change transformer taps if required.
- ___ 11.2.15 Visually check power wiring in switchboard and at junction box.

QA _____
If the power factor correction capacitor is installed, assure that the main switch is wired to discharge the capacitor when the switch is open.

QA _____ 11.2.16 Record the no load voltage at the Centrilift switchboard Correct if required and record last voltage set. Check all leads with safety wand before changing voltmeter wires from phase to phase.

Phase

1-2 2-3 3-1

___ ___ ___

___ ___ ___

___ ___ ___

TABLE 1 VALVE LINE UP FOR WELL #1 PUMP TEST

VALVE	POSITION
1V1	OPEN
1V2	OPEN
1V3	CLOSED
1V6	CLOSED
1V7	OPEN
1V11	OPEN
1V15	CLOSED
1V19	CLOSED
1V8	CLOSED
1V28	CLOSED
1V27	OPEN
1V37	CLOSED
1V31	OPEN
1V35	OPEN
1V36	OPEN
1V39	OPEN
1V21	OPEN
1V5	CLOSED
1V26	CLOSED
1V23	OPEN
1V29	OPEN
1V24	OPEN

11.3 Test Procedure

11.3.1 General: After the prerequisites have been completed artesian flow from well #1 will be directed to pond #1. The pump will then be started and brought to flow of 1000 GPM as fast as possible. The pump will then be operated until it is warmed (approximately 1 hours).

11.3.2 Operating limitations

1. The pump shall not operate for more than 30 seconds continuous under a no flow condition.
2. The pump shall operate between 940 GPM to 1550 GPM. Operating at flows outside this range will damage and contribute the premature failure of the pump or motor.
3. Current phase shall not exceed 110 amp on any phase.

11.3.3 Pump Test

- ___ 1. The pump shall not operate for more than 30 seconds continuous under a no flow condition.
- ___ 2. Open valve 1V6 until artesian flow is 50 to 150 GPM as read on 3" orifice. See curve attached.
- ___ 3. Ensure artesian flow is flowing to well #1 pond.
- ___ 4. Flow artesian flow for 30 minutes.
- ___ 5. Close valve 1V6.
- ___ 6. Open valve 1V3.
- ___ 7. Clear all personnel away from wellhead.
- ___ 8. Start pump

Pressure should immediately appear on PT 1-3.
Pressure should stabilize within 5 seconds. Record stable pressure immediately. _____psig.

- ___ 9. Immediately after dead head pressure has been recorded, crack valve 1V6 and bring pump flow up to 1000 \pm 10 psig. Use 8" orifice flow meter for indication. Pump should be flowing at 1000 psig within 2 minutes after pump start. As pump is brought up to 1000 gpm, PT 1-14 should not exceed 120 psig. NOTE TIME of day that flow is stable.
- ___ 10. Continue to adjust valve 1V6 to keep flow constant.
- ___ 11. Record data as shown on Table 2. It is suggested that copies of the data sheet be made and have two people collect data. One person at switchgear and one inside 601 Bldg.

QA Verification of Compliance

1. All procedure steps requiring QA verification have been performed per procedure. Any deviations have been approved by Document Revision Request (EG&G Form 1844).
2. All required RRGAs signoffs in this procedure have been completed.
3. All data requirements per this procedure have been met.

Time Date Quality Division Inspector

A Quality Discrepancy Report is to be issued for any discrepancies in items 1, 2, and 3 above. If any QDR's are issued, note below:

1. _____
2. _____
3. _____
4. _____

