

# ESP Electro-Mechanical Cable Test Results

Technician: Jim M

Date: 1-23-12, 1-24-12

Cable: #1

- 1: Check continuity between pins and mechanical parts.
- 2: Hi-Pot Test 150V @ 30secs

## BEFORE SOAKING

| BALEBOUY | 1 | 2    | 3     | 4     | 5     | 6     | 7     | CONE1 | CONE2 | JACKET |
|----------|---|------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1        | x | 105G | 7154G | 7154G | 125G  | 118G  | 124G  | 41.4G | 18.5G | 35.8G  |
| 2        | x | x    | 127G  | 186G  | 110G  | 109G  | 112G  | 43G   | 22.8G | 49.4G  |
| 3        | x | x    | x     | 89G   | 103G  | 108G  | 111G  | 49.2G | 21.8G | 54G    |
| 4        | x | x    | x     | x     | 90.5G | 90.5G | 84G   | 31.2G | 22.8G | 46.6G  |
| 5        | x | x    | x     | x     | 88G   | 93.5G | 97G   | 42G   | 21G   | 47.6G  |
| 6        | x | x    | x     | x     | x     | x     | 84.5G | 39G   | 21.4G | 44G    |
| 7        | x | x    | x     | x     | x     | x     | x     | 41.4G | 23.4G | 44.2G  |
| CONE 1   | x | x    | x     | x     | x     | x     | x     | x     | 4.64G | 282M   |
| CONE 2   | x | x    | x     | x     | x     | x     | x     | x     | x     | 4.16G  |

Placed in test tank 1-24-12 @ 9:15 AM

## AFTER SOAKING

Removed from test tank 1-31-2012 @ 7:30 AM

| BALEBOUY | 1 | 2    | 3    | 4    | 5    | 6    | 7     | CONE1 | CONE2 | JACKET |
|----------|---|------|------|------|------|------|-------|-------|-------|--------|
| 1        | x | 154G | 154G | 154G | 154G | 154G | 99.5G | 102G  | 109G  | 117G   |
| 2        | x | x    | 154G | 154G | 154G | 154G | 90.5G | 95.5G | 102G  | 106G   |
| 3        | x | x    | x    | 155G | 154G | 154G | 92G   | 99.5G | 107G  | 120G   |
| 4        | x | x    | x    | x    | 154G | 154G | 84G   | 108G  | 114G  | 134G   |
| 5        | x | x    | x    | x    | x    | 154G | 90G   | 106G  | 108G  | 135G   |
| 6        | x | x    | x    | x    | x    | x    | 96.5G | 131G  | 142G  | 141G   |
| 7        | x | x    | x    | x    | x    | x    | x     | 154G  | 154G  | 7155G  |
| CONE 1   | x | x    | x    | x    | x    | x    | x     | x     | .00M  | 0.00   |
| CONE 2   | x | x    | x    | x    | x    | x    | x     | x     | x     | 0.00   |

2.2.2012

Cone to cone 0.00  
Cone 1 / Cone 2 to jacket 0.0 } still wet @ strain relief of cone 1  
@ 150V

# ESP Electro-Mechanical Cable Test Results

Technician: Jim M

Date: 1-24-12

Cable: #2

- 1: Check continuity between pins and mechanical parts.
- 2: Hi-Pot Test 150V @ 30secs

## BEFORE SOAKING

| BALE\BOUY | 1 | 2     | 3     | 4    | 5     | 6     | 7     | CONE1 | CONE2                  | JACKET |
|-----------|---|-------|-------|------|-------|-------|-------|-------|------------------------|--------|
| 1         | x | 7154G | 110G  | 113G | 108G  | 97G   | 94.5G | 25.2G | 28.6G                  | 46G    |
| 2         | x | x     | 80.5G | 83G  | 78.5G | 72.5G | 72G   | 26G   | 37.4G                  | 44G    |
| 3         | x | x     | x     | 69G  | 73G   | 72G   | 73.5G | 25.6G | 38G                    | 44.4G  |
| 4         | x | x     | x     | x    | 77.5G | 75.5G | 65G   | 26G   | 35.4G                  | 44.8G  |
| 5         | x | x     | x     | x    | x     | 77G   | 76.5G | 25.4G | 36G                    | 44.6G  |
| 6         | x | x     | x     | x    | x     | x     | 75.5G | 25.2G | <del>44.1G</del> 30.8G | 45.4G  |
| 7         | x | x     | x     | x    | x     | x     | x     | 22.2G | 38.2G                  | 45.4G  |
| CONE 1    | x | x     | x     | x    | x     | x     | x     | x     | 3.28G                  | 2G     |
| CONE 2    | x | x     | x     | x    | x     | x     | x     | x     | x                      | 885M   |

Placed in test tank 1-24-12 @ 9:15 AM

AFTER SOAKING Removed from tank 2-2-2012 @ 10:30 AM, retested

| BALE\BOUY | 1 | 2    | 3    | 4    | 5    | 6    | 7    | CONE1 | CONE2 | JACKET |
|-----------|---|------|------|------|------|------|------|-------|-------|--------|
| 1         | x | 754G | 734G | 754G | 754G | 754G | 105G | 754G  | 755G  | 755G   |
| 2         | x | x    | 754G | 754G | 754G | 755G | 754G | 754G  | 754G  | 755G   |
| 3         | x | x    | x    | 754G | 754G | 754G | 102G | 755G  | 69.5G | 66.5G  |
| 4         | x | x    | x    | x    | 754G | 754G | 108G | 755G  | 75G   | 755G   |
| 5         | x | x    | x    | x    | x    | 754G | 754G | 754G  | 754G  | 71.5   |
| 6         | x | x    | x    | x    | x    | x    | 97G  | 754G  | 755G  | 755G   |
| 7         | x | x    | x    | x    | x    | x    | x    | 754G  | 754G  | 754G   |
| CONE 1    | x | x    | x    | x    | x    | x    | x    | x     |       |        |
| CONE 2    | x | x    | x    | x    | x    | x    | x    | x     | x     |        |

Removed from tank 2-2-2012 cone to cone 0 Ohms w/ DVM @ 10:30 AM

@ 11:20 AM 25K Ohms w/ DVM  
cone to cone w/ megger 0.0 Ohms @ 27V

# ESP Electro-Mechanical Cable Test Results

Technician: Jim Montgomery

Date: 2-27-2012

Cable: #3 Long

- 1: Check continuity between pins and mechanical parts.
- 2: Hi-Pot Test 150V @ 30secs

## BEFORE SOAKING

| BALEBOUY | 1 | 2    | 3    | 4    | 5     | 6    | 7     | CONE1 | CONE2 | JACKET |
|----------|---|------|------|------|-------|------|-------|-------|-------|--------|
| 1        | x | 117G | 154G | 126G | 127G  | 125G | 154G  | 31G   | 17G   | 49G    |
| 2        | x | x    | 76G  | 82G  | 77.5G | 82G  | 95G   | 29.6G | 17G   | 56G    |
| 3        | x | x    | x    | 116G | 112G  | 116G | 7154G | 28G   | 16.6G | 59G    |
| 4        | x | x    | x    | x    | 155G  | 154G | 154G  | 28G   | 16.4G | 53G    |
| 5        | x | x    | x    | x    | x     | 126G | 109G  | 28G   | 17G   | 51.5G  |
| 6        | x | x    | x    | x    | x     | x    | 154G  | 28.8G | 17.6G | 55G    |
| 7        | x | x    | x    | x    | x     | x    | x     | 30G   | 18.4G | 110G   |
| CONE 1   | x | x    | x    | x    | x     | x    | x     | x     | 28.8G | 20.6G  |
| CONE 2   | x | x    | x    | x    | x     | x    | x     | x     | x     | 6.85G  |

Placed in test tank 2-27-2012 @ 9:00am

## AFTER SOAKING

| BALEBOUY | 1 | 2     | 3     | 4     | 5     | 6     | 7     | CONE1 | CONE2       | JACKET      |
|----------|---|-------|-------|-------|-------|-------|-------|-------|-------------|-------------|
| 1        | x | 47.8G | 88.5G | 66.5G | 39.6G | 84G   | 28.6G | 62.5G | 88G         | 71G         |
| 2        | x | x     | 42.4G | 36.8G | 30.6G | 52.5G | 44G   | 57.5G | 71.5G       | 52.5G       |
| 3        | x | x     | x     | 52G   | 55G   | 56.5G | 60G   | 61G   | 58.5G       | 62G         |
| 4        | x | x     | x     | x     | 56G   | 89.5G | 98G   | 52.5G | 69.5G       | 56G         |
| 5        | x | x     | x     | x     | x     | 68.5G | 52G   | 58G   | 56G         | 82.5G       |
| 6        | x | x     | x     | x     | x     | x     | 137G  | 7154G | 755G        | 154G        |
| 7        | x | x     | x     | x     | x     | x     | x     | 754G  | 7155G       | 735G        |
| CONE 1   | x | x     | x     | x     | x     | x     | x     | x     | 0.5V<br>33V | 0.5V<br>33V |
| CONE 2   | x | x     | x     | x     | x     | x     | x     | x     | x           | 0.5V<br>6V  |

Removed from test tank 4/9/2012 @ 3:00pm  
 Retested  
 Then ~~was~~ rinsed w/ Fresh H<sub>2</sub>O

# ESP Electro-Mechanical Cable Test Results

Technician: Jim Montgomery

Date: 2-27-2012

Cable: #4 Long

1: Check continuity between pins and mechanical parts.

2: Hi-Pot Test 150V @ 30secs

## BEFORE SOAKING

| BALE\BOUY | 1 | 2     | 3   | 4     | 5     | 6     | 7     | CONE1 | CONE2 | JACKET |
|-----------|---|-------|-----|-------|-------|-------|-------|-------|-------|--------|
| 1         | x | 80.5G | 93G | 91.5G | 100G  | 93G   | 108G  | 64G   | 13.6G | 44.4G  |
| 2         | x | x     | 79G | 86.5G | 71G   | 70.5G | 76.5G | 62.5G | 13.8G | 38.8G  |
| 3         | x | x     | x   | 86.5G | 73.5G | 77.5G | 87G   | 66.5G | 13.7G | 36.4G  |
| 4         | x | x     | x   | x     | 76G   | 76.5G | 87.5G | 64G   | 13.6G | 37.4G  |
| 5         | x | x     | x   | x     | x     | 71.5G | 81.5G | 63.5G | 13.6G | 37.6G  |
| 6         | x | x     | x   | x     | x     | x     | 113G  | 67G   | 14.6G | 52.5G  |
| 7         | x | x     | x   | x     | x     | x     | x     | 67.5G | 15.9G | 48.4G  |
| CONE 1    | x | x     | x   | x     | x     | x     | x     | x     | 56.5G | 50.5G  |
| CONE 2    | x | x     | x   | x     | x     | x     | x     | x     | x     | 4.6G   |

Placed in test tank 2-27-2012 @ 9:00 AM

## AFTER SOAKING

| BALE\BOUY | 1 | 2     | 3     | 4     | 5     | 6     | 7     | CONE1 | CONE2 | JACKET |
|-----------|---|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1         | x | 57.5G | 56G   | 57G   | 54.5G | 57G   | 56.5G | 24.2G | 24.4G | 25G    |
| 2         | x | x     | 20.8G | 32.6G | 26G   | 18.4G | 20.6G | 25.6G | 25.8G | 26.4G  |
| 3         | x | x     | x     | 27G   | 31.6G | 20.6G | 33G   | 25.8G | 24.2G | 25.2G  |
| 4         | x | x     | x     | x     | 27.8G | 29.6G | 20.4G | 26.2G | 26.4G | 26.4G  |
| 5         | x | x     | x     | x     | x     | 30G   | 35.6G | 26.8G | 24G   | 24.8G  |
| 6         | x | x     | x     | x     | x     | x     | 48.6G | 23.6G | 23.6G | 23.2G  |
| 7         | x | x     | x     | x     | x     | x     | x     | 22.8G | 23.2G | 23.2G  |
| CONE 1    | x | x     | x     | x     | x     | x     | x     | x     | 8.8V  | 8.5V   |
| CONE 2    | x | x     | x     | x     | x     | x     | x     | x     | x     | 8.5V   |

Removed from tank 4/10/2012 @ 6:00 AM

Megger tested

Rinsed w/ ~~from~~ fresh H<sub>2</sub>O