

AP - 111

**ANNUAL GW
MONITORING REPORT
(4 of 29)**

2016

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|---|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| MKTF-34 | | | | | | | | | | |
| GAUGE DATE | 9.12.16 | Initial | 1434 | 7.52 | 15.6 | 2074 | — | — | 63.9 | 12.1 |
| GAUGE TIME | 1425 | 1 | 1436 | 7.56 | 15.4 | 2097 | — | — | 63.5 | 10.3 |
| DHC (FEET) | ND | 2 | 1438 | 7.64 | 14.9 | 2097 | — | — | 62.4 | 11.6 |
| DTW (FEET) | 18.03 | 3 | 1440 | 7.65 | 14.6 | 2070 | — | — | 60.2 | 13.7 |
| DTB (FEET) | 27.73 | 4 | 1442 | 7.67 | 14.3 | 2054 | — | — | 58.3 | 15.0 |
| DTB - DTW | 9.70 | 5 | 1444 | 7.67 | 14.2 | 2056 | — | — | 57.3 | 15.3 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1446 | 7.65 | 14.0 | 2062 | — | — | 51.8 | 18.3 |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 4.74 | WEATHER CONDITIONS: CLOUDY, WEST WIND, 75° | | | | | | | | |
| PURGE DATE | 9.12.16 | WATER APPEARANCE / ODOR: CLEAR, NO ODOR | | | | | | | | |
| END OF PURGE TIME | 1446 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 4.75 | | | | | | | | | |
| DTW (FEET) | 25.43 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.13.16 | WEATHER CONDITIONS: CLEAR, CALM, 68° | | | | | | | | |
| DTW (FEET) | 22.62 | WATER APPEARANCE / ODOR: CLEAR, NO ODOR | | | | | | | | |
| SAMPLE TIME | 0920 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-34 | 0920 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: 

2.93

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|---|----------------------|-----------------------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-18 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.12.16 | Initial | 1513 | 7.19 | 20.4 | 1652 | — | — | 18.1 | -133.5 |
| GAUGE TIME | 1504 | 1 | 1516 | 7.33 | 17.5 | 1687 | — | — | 23.9 | -140.6 |
| DHC (FEET) | ND | 2 | 1518 | 7.28 | 15.6 | 1695 | — | — | 14.6 | -143.3 |
| DTW (FEET) | 25.75 | 3 | | BAILED DRY @ 3.5 GALS | | | | | | |
| DTB (FEET) | 25.78 | 4 | | | | | | | | |
| DTB - DTW | 18.03 | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 8.82 | WEATHER CONDITIONS: CLOUDY, WEST WIND, 75° | | | | | | | | |
| PURGE DATE | 9.12.16 | WATER APPEARANCE / ODOR: CLEAR → BROWN → MUDDY, ODOR | | | | | | | | |
| END OF PURGE TIME | 1520 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 3.5 | | | | | | | | | |
| DTW (FEET) | 25.75 | | | | | | | | | |
| | 18.03 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.13.16 | WEATHER CONDITIONS: CLEAR, WEST WIND 76° | | | | | | | | |
| DTW (FEET) | 10.65 | WATER APPEARANCE / ODOR: CLEAR, ODOR | | | | | | | | |
| SAMPLE TIME | 0950 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-18 | 0950 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: [Signature]

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|--|----------------------|------|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTF-35 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.12.16 | Initial | 1548 | 7.07 | 21.0 | 1361 | — | — | 17.6 | -111.1 |
| GAUGE TIME | 1542 | 1 | 1550 | 7.11 | 20.4 | 1405 | — | — | 11.6 | -136.3 |
| DHC (FEET) | ND | 2 | 1551 | 7.20 | 20.0 | 1408 | — | — | 16.5 | -143.6 |
| DTW (FEET) | 6.65 | 3 | 1553 | 7.19 | 19.8 | 1382 | — | — | 21.5 | -142.6 |
| DTB (FEET) | 16.52 | 4 | 1554 | 7.24 | 19.7 | 1391 | — | — | 19.7 | -135.6 |
| DTB - DTW | 9.87 | 5 | 1556 | 7.23 | 19.7 | 1381 | — | — | 14.8 | -133.5 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1558 | 7.24 | 19.6 | 1393 | — | — | 14.6 | -132.1 |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 4.83 | WEATHER CONDITIONS: ☁ CLOUDY, WEST WIND, 75° | | | | | | | | |
| PURGE DATE | 9.12.16 | WATER APPEARANCE / ODOR: GREY, ODOR | | | | | | | | |
| END OF PURGE TIME | 1558 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 5 GALS | | | | | | | | | |
| DTW (FEET) | 6.90 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.13.16 | WEATHER CONDITIONS: CLEAR, WEST WIND, 71° | | | | | | | | |
| DTW (FEET) | 6.68 | WATER APPEARANCE / ODOR: | | | | | | | | |
| SAMPLE TIME | 1040 | COMMENTS: COLLECTED DUPO5 & FB091316 @ 1100 | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-35 | 1040 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 40 ML VOA | 3 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER PLASTIC | 1 | | | | NEAT | | | |
| | | 500 ML / 125 ML AMBER | 2 | | | | HNO3 | | | |
| | | 125 ML AM PLASTIC | 1 | | | | H2SO4 | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|---|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-38 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.13.16 | Initial | 1208 | 7.05 | 20.0 | 2298 | — | — | 18.2 | 76.0 |
| GAUGE TIME | 1200 | 1 | 1210 | 7.04 | 19.4 | 2331 | — | — | 18.8 | 47.5 |
| DHC (FEET) | ND | 2 | 1212 | 6.97 | 19.1 | 2300 | — | — | 17.5 | 11.5 |
| DTW (FEET) | 8.00 | 3 | 1214 | 7.08 | 19.0 | 2247 | — | — | 21.1 | -3.2 |
| DTB (FEET) | 20.30 | 4 | 1216 | 7.08 | 19.0 | 2202 | — | — | 22.8 | -22.8 |
| DTB - DTW | 12.30 | 5 | 1218 | 7.09 | 18.9 | 2147 | — | — | 25.0 | -40.4 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1220 | 7.10 | 18.8 | 2116 | — | — | 25.6 | -30.2 |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 6 | WEATHER CONDITIONS: CLOUDY WEST WIND 83° | | | | | | | | |
| PURGE DATE | 9.13.16 | WATER APPEARANCE / ODOR: CLEAR → BROWN, ODOR | | | | | | | | |
| END OF PURGE TIME | 1220 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 6 | | | | | | | | | |
| DTW (FEET) | 12.20 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.13.16 | WEATHER CONDITIONS: CLOUDY WEST WIND 83° | | | | | | | | |
| DTW (FEET) | 8.32 | WATER APPEARANCE / ODOR: CLEAR, ODOR | | | | | | | | |
| SAMPLE TIME | 1240 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-38 | 1240 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 LAMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

COMPLETED BY: TRACY PAYNE


SIGNATURE: 

L-143

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|--|----------------------|------|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTF-39 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 8.9.13.16 | Initial | 1321 | 6.77 | 21.2 | 7514 | — | — | 16.5 | -106.2 |
| GAUGE TIME | 1310 | 1 | 1322 | 6.89 | 20.5 | 7051 | — | — | 14.8 | -121.6 |
| DHC (FEET) | ND | 2 | 1323 | 6.91 | 20.2 | 7632 | — | — | 15.1 | -123.6 |
| DTW (FEET) | 8.40 | 3 | 1325 | 6.93 | 20.1 | 7656 | — | — | 16.2 | -124.3 |
| DTB (FEET) | 15.23 | 4 | 1326 | 6.95 | 20.1 | 7632 | — | — | 15.5 | -120.3 |
| DTB - DTW | 6.83 | 5 | 1327 | 6.96 | 20.0 | 7617 | — | — | 14.6 | -124.6 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1328 | 6.94 | 20.0 | 7649 | — | — | 14.9 | -121.1 |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 3.34 | WEATHER CONDITIONS: CLOUDY, WEST WIND, 80° | | | | | | | | |
| PURGE DATE | 9.13.16 | WATER APPEARANCE / ODOR: GREY, ODOR / SHEEN | | | | | | | | |
| END OF PURGE TIME | 1328 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 3.5 | | | | | | | | | |
| DTW (FEET) | 9.90 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 8.9.13.16 | WEATHER CONDITIONS: CLOUDY, WEST WIND, 80° | | | | | | | | |
| DTW (FEET) | 9.50 | WATER APPEARANCE / ODOR: GREY, ODOR | | | | | | | | |
| SAMPLE TIME | 1345 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-39 | 1345 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO3 | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO3 | | | |
| | | 125 ML PLASTIC | 1 | | | | H2SO4 | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTER FACE PROBE YSI PRO DSS | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|---|----------------------|------|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTF-21 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.11.16 | Initial | 1028 | 6.53 | 22.2 | 1343 | — | — | 9.9 | -91.4 |
| GAUGE TIME | 1022 | 1 | 1030 | 6.73 | 22.2 | 1382 | — | — | 18.4 | -95.2 |
| DHC (FEET) | ND | 2 | BAILED DRY @ 2 GALS | | | | | | | |
| DTW (FEET) | 6.80 | 3 | | | | | | | | |
| DTB (FEET) | 8.83 | 4 | | | | | | | | |
| DTB - DTW | 2.03 | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 4.50 | WEATHER CONDITIONS: CLEAR, MODERATE WEST WIND, 78° | | | | | | | | |
| PURGE DATE | 9.11.16 | WATER APPEARANCE / ODOR: AMBER, ODOR | | | | | | | | |
| END OF PURGE TIME | 1033 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 2 GALS | | | | | | | | | |
| DTW (FEET) | 8.60 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.17.16 | WEATHER CONDITIONS: CLEAR, CALM, 56° | | | | | | | | |
| DTW (FEET) | 7.40 | WATER APPEARANCE / ODOR: DARK GREY, ODOR | | | | | | | | |
| SAMPLE TIME | 0840 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-21 | 0840 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO3 | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO3 | | | |
| | | 125 ML PLASTIC | 1 | | | | H2SO4 | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE | | | | | | | | |
| | | YSI PRODS3 | | | | | | | | |

COMPLETED BY: TRACY PAYNE

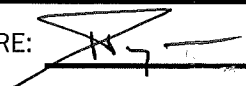
SIGNATURE: 

L.51

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|-------------------------|---|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-20 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.11.16 | Initial | 1048 | 6.77 | 24.1 | 2890 | — | — | 14.3 | -119.9 |
| GAUGE TIME | 10:44 | 1 | 1050 | 6.75 | 24.1 | 2987 | — | — | 11.1 | -138.0 |
| DHC (FEET) | ND | 2 | BAILED DRY @ 2 GALS | | | | | | | |
| DTW (FEET) | 7.65 | 3 | | | | | | | | |
| DTB (FEET) | 9.60 | 4 | | | | | | | | |
| DTB - DTW | 2.05 | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 4.55 | WEATHER CONDITIONS: CLEAR, MODERATE WEST WIND, 80° | | | | | | | | |
| PURGE DATE | 9.11.16 | WATER APPEARANCE / ODOR: GREY → BLACK, ODOR | | | | | | | | |
| END OF PURGE TIME | 1052 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 2 | | | | | | | | | |
| DTW (FEET) | 9.40 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.12.16 | WEATHER CONDITIONS: CLEAR, CALM 62° | | | | | | | | |
| DTW (FEET) | 7.60 | WATER APPEARANCE / ODOR: CLEAR, ODOR | | | | | | | | |
| SAMPLE TIME | 0925 0825 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-20 | 0925 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

COMPLETED BY: TRACY FAYNE

SIGNATURE: 

0.68

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

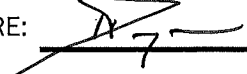
| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|---|----------------------|------|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTf-16 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.11.16 | Initial | 1112 | 7.18 | 23.6 | 2569 | — | — | 16.2 | -144.2 |
| GAUGE TIME | 1105 | 1 | 1114 | 7.19 | 23.0 | 2842 | — | — | 15.5 | -133.5 |
| DHC (FEET) | ND | 2 | 1116 | 7.19 | 22.8 | 3033 | — | — | 21.7 | -131.5 |
| DTW (FEET) | 9.65 | 3 | 1119 | 7.18 | 22.7 | 3105 | — | — | 15.4 | -122.7 |
| DTB (FEET) | 13.85 | 4 | | | | | | | | |
| DTB - DTW | 4.20 | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 2.05 | WEATHER CONDITIONS: CLEAR, MODERATE WEST WIND, 80° | | | | | | | | |
| PURGE DATE | 9.11.16 | WATER APPEARANCE / ODOR: CLEAR, ODOR | | | | | | | | |
| END OF PURGE TIME | 1119 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 2.25 | | | | | | | | | |
| DTW (FEET) | 12.95 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.12.16 | WEATHER CONDITIONS: PARTLY CLOUDY, CALM, 63° | | | | | | | | |
| DTW (FEET) | 12.50 | WATER APPEARANCE / ODOR: CLEAR, ODOR | | | | | | | | |
| SAMPLE TIME | 1010 | COMMENTS: LOW YIELD ON WELL 500ML NEAT 1/2 FILLED | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTf-16 | 1010 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500ML PLASTIC | 1 | | | | HNO3 | | | |
| | | 125ML PLASTIC | 1 | | | | HNO3 | | | |
| | | 125ML PLASTIC | 1 | | | | H2SO4 | | | |
| | | 500ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

COMPLETED BY: TRACY PAYNESIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|--------------------------|----------------------|----|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| MKTF-03 | | | | | | | | | | |
| GAUGE DATE | 9.12.16 | Initial | | | | | | | | |
| GAUGE TIME | 1040 | 1 | NO SAMPLES COLLECTED | | | | | | | |
| DHC (FEET) | 7.92 | 2 | 2.40' OF HYDROCARBON | | | | | | | |
| DTW (FEET) | 10.32 | 3 | DETECTED IN WELL | | | | | | | |
| DTB (FEET) | 18.46 | 4 | | | | | | | | |
| DTB - DTW | NA | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | | WEATHER CONDITIONS: | | | | | | | | |
| PURGE DATE | | WATER APPEARANCE / ODOR: | | | | | | | | |
| END OF PURGE TIME | | COMMENTS: HC - CLEAR | | | | | | | | |
| PURGE AMOUNT | | | | | | | | | | |
| DTW (FEET) | | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | | WEATHER CONDITIONS: | | | | | | | | |
| DTW (FEET) | | WATER APPEARANCE / ODOR: | | | | | | | | |
| SAMPLE TIME | | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
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| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE | | | | | | | | |
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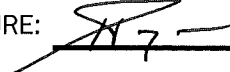
COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|-------------------|------------|--------------------------------|--|----|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTF-05 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.11.16 | Initial | | | | | | | | |
| GAUGE TIME | 1210 | 1 | | | | | | | | |
| DHC (FEET) | 14.74 | 2 | NO SAMPLES COLLECTED 0.45' OF HYDROCARBON IN WELL | | | | | | | |
| DTW (FEET) | 15.19 | 3 | | | | | | | | |
| DTB (FEET) | 17.78 | 4 | | | | | | | | |
| DTB - DTW | NA | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | | WEATHER CONDITIONS: | | | | | | | | |
| PURGE DATE | | WATER APPEARANCE / ODOR: | | | | | | | | |
| END OF PURGE TIME | | COMMENTS: HC - BROWN | | | | | | | | |
| PURGE AMOUNT | | | | | | | | | | |
| DTW (FEET) | | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | | WEATHER CONDITIONS: | | | | | | | | |
| DTW (FEET) | | WATER APPEARANCE / ODOR: | | | | | | | | |
| SAMPLE TIME | | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
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| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE | | | | | | | | |

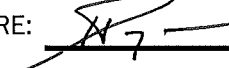
COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|----------------|--------------------------------|-------------------------------------|----|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTF-00 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.11.16 | Initial | | | | | | | | |
| GAUGE TIME | 1214 | 1 | | | | | | | | |
| DHC (FEET) | 17.40 | 2 | NO SAMPLES COLLECTED | | | | | | | |
| DTW (FEET) | 18.48 | 3 | 1.08' OF HYDROCARBON IN WELL | | | | | | | |
| DTB (FEET) | 23.75 | 4 | | | | | | | | |
| DTB - DTW | NA | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | | WEATHER CONDITIONS: | | | | | | | | |
| PURGE DATE | | WATER APPEARANCE / ODOR: | | | | | | | | |
| END OF PURGE TIME | | COMMENTS: HC - BROWN | | | | | | | | |
| PURGE AMOUNT | | | | | | | | | | |
| DTW (FEET) | | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | | WEATHER CONDITIONS: | | | | | | | | |
| DTW (FEET) | | WATER APPEARANCE / ODOR: | | | | | | | | |
| SAMPLE TIME | | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
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| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE | | | | | | | | |
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COMPLETED BY: TRACY PAYNE

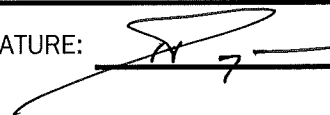
SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|--|------------------------------|----|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTF-07 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.11.16 | Initial | | | | | | | | |
| GAUGE TIME | 1216 | 1 | | | | | | | | |
| DHC (FEET) | 12.20 | 2 | NO SAMPLES COLLECTED | | | | | | | |
| DTW (FEET) | 14.61 | 3 | 2.41' OF HYDROCARBON IN WELL | | | | | | | |
| DTB (FEET) | 17.63 | 4 | | | | | | | | |
| DTB - DTW | NA | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | | WEATHER CONDITIONS: | | | | | | | | |
| PURGE DATE | | WATER APPEARANCE / ODOR: | | | | | | | | |
| END OF PURGE TIME | | COMMENTS: <div style="text-align: center; font-size: 1.2em;">HC - BROWN</div> | | | | | | | | |
| PURGE AMOUNT | | | | | | | | | | |
| DTW (FEET) | | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | | WEATHER CONDITIONS: | | | | | | | | |
| DTW (FEET) | | WATER APPEARANCE / ODOR: | | | | | | | | |
| SAMPLE TIME | | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
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| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE | | | | | | | | |
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COMPLETED BY: TRACY PAYNE

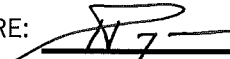
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WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|--|--|----|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTF-08 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.11.16 | Initial | | | | | | | | |
| GAUGE TIME | 1220 | 1 | | | | | | | | |
| DHC (FEET) | 13.63 | 2 | NO SAMPLES COLLECTED 0.66' OF HYDROCARBON IN WELL | | | | | | | |
| DTW (FEET) | 14.29 | 3 | | | | | | | | |
| DTB (FEET) | 21.98 | 4 | | | | | | | | |
| DTB - DTW | NA | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | | WEATHER CONDITIONS: | | | | | | | | |
| PURGE DATE | | WATER APPEARANCE / ODOR: | | | | | | | | |
| END OF PURGE TIME | | COMMENTS: <div style="text-align: center;">HC - BROWN</div> | | | | | | | | |
| PURGE AMOUNT | | | | | | | | | | |
| DTW (FEET) | | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | | WEATHER CONDITIONS: | | | | | | | | |
| DTW (FEET) | | WATER APPEARANCE / ODOR: | | | | | | | | |
| SAMPLE TIME | | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
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| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE | | | | | | | | |
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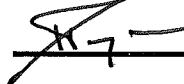
COMPLETED BY: TRACY PAYNE

SIGNATURE: 

7.19

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|---|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-II | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.11.16 | Initial | 0810 | 7.08 | 17.9 | 4005 | — | — | 15.9 | -94.7 |
| GAUGE TIME | 0804 | 1 | 0813 | 7.25 | 17.6 | 4215 | — | — | 22.6 | -133.4 |
| DHC (FEET) | ND | 2 | 0816 | 7.26 | 17.2 | 4453 | — | — | 20.7 | -133.9 |
| DTW (FEET) | 8.70 | 3 | 0819 | 7.15 | 17.0 | 5005 | — | — | 17.1 | -116.6 |
| DTB (FEET) | 18.42 | 4 | 0822 | 7.24 | 16.5 | 4768 | — | — | 21.2 | -123.7 |
| DTB - DTW | 9.72 | 5 | 0825 | 7.23 | 16.4 | 4991 | — | — | 19.8 | -115.3 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 0828 | 7.22 | 16.3 | 4920 | — | — | 13.6 | -115.9 |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 21.58 | WEATHER CONDITIONS: CLEAR, CALM, 60° | | | | | | | | |
| PURGE DATE | 9.11.16 | WATER APPEARANCE / ODOR: CLEAR → GREY, ODOR | | | | | | | | |
| END OF PURGE TIME | 0828 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 22 | | | | | | | | | |
| DTW (FEET) | 15.12 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.11.16 | WEATHER CONDITIONS: CLOUDY, WEST WIND, 89° LIGHTNING ALERT @ | | | | | | | | |
| DTW (FEET) | 8.78 | WATER APPEARANCE / ODOR: CLEAR, ODOR 1330 - 1425 | | | | | | | | |
| SAMPLE TIME | 1330 | COMMENTS: COLLECTED DUPO4 AT AT THIS WELL | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-II | 1330 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

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WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|---|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-04 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.11.16 | Initial | 0725 | 6.79 | 16.8 | 2124 | — | — | 22.5 | -76.4 |
| GAUGE TIME | 0715 | 1 | 0729 | 6.97 | 13.5 | 2417 | — | — | 20.1 | -107.1 |
| DHC (FEET) | ND | 2 | 0733 | 7.01 | 14.6 | 2376 | — | — | 14.3 | -109.7 |
| DTW (FEET) | 10.23 | 3 | 0737 | 7.14 | 14.0 | 2354 | — | — | 22.8 | -116.7 |
| DTB (FEET) | 22.30 | 4 | BAILED DRY @ 16 GALS | | | | | | | |
| DTB - DTW | 12.07 | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 26.80 | WEATHER CONDITIONS: CLEAR, CALM, 61° | | | | | | | | |
| PURGE DATE | 9.11.12 | WATER APPEARANCE / ODOR: GREY, ODOR, SHEEN | | | | | | | | |
| END OF PURGE TIME | 0740 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 16 GALS | | | | | | | | | |
| DTW (FEET) | 21.94 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.11.12 | WEATHER CONDITIONS: CLOUDY, WEST WIND, 85° | | | | | | | | |
| DTW (FEET) | 10.20 | WATER APPEARANCE / ODOR: AMBER, ODOR | | | | | | | | |
| SAMPLE TIME | 1445 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-04 | 1445 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 L AMBER | 2 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

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SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|--------------------------|---|-------------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-10 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.11.16 | Initial | 0905 | 6.61 | 18.6 | 3539 | — | — | 14.5 | -90.5 |
| GAUGE TIME | 0855 | 1 | 0907 | 6.70 | 17.8 | 3653 | — | — | 19.3 | -100.0 |
| DHC (FEET) | ND | 2 | 0909 | 6.74 | 17.2 | 3650 | — | — | 17.4 | -104.1 |
| DTW (FEET) | 8.45 | 3 | BAILED DRY @ 6' GALLONS | | | | | | | |
| DTB (FEET) | 16.20 | 4 | | | | | | | | |
| DTB - DTW | 16.20 7.75 | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 17.20 | WEATHER CONDITIONS: CLEAR, CALM, 68° | | | | | | | | |
| PURGE DATE | 9.11.16 | WATER APPEARANCE / ODOR: CLEAR → BROWN, ODOR | | | | | | | | |
| END OF PURGE TIME | 0911 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 7 GALS | | | | | | | | | |
| DTW (FEET) | 15.90 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.11.16 | WEATHER CONDITIONS: CLOUDY, WEST WIND, 85° - LIGHTNING ALERT | | | | | | | | |
| DTW (FEET) | 9.15' | WATER APPEARANCE / ODOR: BROWN, ODOR | | | | | | | | |
| SAMPLE TIME | 1500 | COMMENTS: 1510-1605 | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-10 | 1500 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML AMBER | 1 | | | | HNO ₃ | | | |
| | | 125 ML AMBER | 1 | | | | HNO ₃ | | | |
| | | 125 ML AMBER | 1 | | | | H ₂ SO ₄ | | | |
| | | 2500 ML AMBER | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|---|----------------------|-------------------------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-9 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.11.16 | Initial | 0943 | 7.01 7.42 | 16.2 19.6 | 1824 | — | — | 18.8 | -65.5 |
| GAUGE TIME | 0930 | 1 | 0946 | 7.04 | 15.1 | 1874 | — | — | 11.5 | -99.3 |
| DHC (FEET) | ND | 2 | 0949 | 7.14 | 14.5 | 1908 | — | — | 10.6 | -113.5 |
| DTW (FEET) | 14.20 | 3 | 0952 | 7.16 | 14.4 | 1907 | — | — | 18.6 | -114.1 |
| DTB (FEET) | 22.82 | 4 | 0955 | 7.17 | 14.3 | 1900 | — | — | 16.1 | -117.2 |
| DTB - DTW | 8.62 | 5 | BAILED DRY @ 16 GALS | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 19.14 | WEATHER CONDITIONS: CLEAR, MODERATE WEST WIND, 72° | | | | | | | | |
| PURGE DATE | 9.11.16 | WATER APPEARANCE / ODOR: CLEAR → BROWN, ODOR | | | | | | | | |
| END OF PURGE TIME | 0958 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 16 | | | | | | | | | |
| DTW (FEET) | 22.45 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.11.16 | WEATHER CONDITIONS: CLOUDY, WEST WIND, 80° | | | | | | | | |
| DTW (FEET) | 14.10 | WATER APPEARANCE / ODOR: BROWN, ODOR | | | | | | | | |
| SAMPLE TIME | 1620 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-9 | 1620 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: 

1.06

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|--|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-15 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.11.16 | Initial | 1242 | 6.62 | 18.3 | 11577 | — | — | 11.7 | -105.1 |
| GAUGE TIME | 1230 | 1 | 1244 | 6.68 | 17.4 | 11683 | — | — | 11.5 | -107.7 |
| DHC (FEET) | ND | 2 | 1245 | 6.74 | 17.4 | 11643 | — | — | 13.4 | -107.8 |
| DTW (FEET) | 13.00 | 3 | 1246 | 6.76 | 17.1 | 11594 | — | — | 11.8 | -105.8 |
| DTB (FEET) | 19.55 | 4 | 1248 | 6.78 | 17.0 | 11563 | — | — | 13.5 | -107.8 |
| DTB - DTW | 6.55 | 5 | 1250 | 6.79 | 17.0 | 11530 | — | — | 8.9 | -107.4 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1252 | 6.79 | 17.0 | 11523 | — | — | 12.5 | -106.5 |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 3.20 | WEATHER CONDITIONS: CLOUDY, WEST WIND, 80° | | | | | | | | |
| PURGE DATE | 9.11.16 | WATER APPEARANCE / ODOR: BROWN, ODOR, SHEEN | | | | | | | | |
| END OF PURGE TIME | 1252 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 3.25 | | | | | | | | | |
| DTW (FEET) | 13.60 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.11.16 | WEATHER CONDITIONS: CLOUDY, WEST WIND, 80° | | | | | | | | |
| DTW (FEET) | 13.00 | WATER APPEARANCE / ODOR: GREY, ODOR | | | | | | | | |
| SAMPLE TIME | 1645 | COMMENTS: COLLECTED FB091116@1655 | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-15 | 1645 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 LITER AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

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SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|--|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-44 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.8.16 | Initial | 1126 | 8.17 | 14.5 | 1005 | — | — | 40.3 | 70.2 |
| GAUGE TIME | 1115 | 1 | 1130 | 8.21 | 13.1 | 2434 | — | — | 41.5 | 73.4 |
| DHC (FEET) | ND | 2 | 1134 | 8.16 | 12.8 | 2459 | — | — | 45.6 | 75.0 |
| DTW (FEET) | 31.34 | 3 | 1138 | 8.14 | 12.9 | 2472 | — | — | 49.0 | 78.0 |
| DTB (FEET) | 51.24 | 4 | 1142 | 8.13 | 12.9 | 2501 | — | — | 46.4 | 79.9 |
| DTB - DTW | 19.90 | 5 | 1146 | 8.13 | 12.9 | 2489 | — | — | 37.2 | 80.6 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1154 | 8.16 | 12.8 | 2450 | — | — | 35.1 | 80.7 |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 9.73 | WEATHER CONDITIONS: CLEAR, LIGHT WEST WIND, 74° | | | | | | | | |
| PURGE DATE | 9.8.16 | WATER APPEARANCE / ODOR: CLEAR → BROWN → MUDDY, NO ODOR | | | | | | | | |
| END OF PURGE TIME | 1154 | COMMENTS: DTW-48.95' @ 1735 ON 9.8.16 | | | | | | | | |
| PURGE AMOUNT | 10.00 | DTW-48.66' @ 0810 ON 9.9.16 | | | | | | | | |
| DTW (FEET) | 50.20 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.9.16 | WEATHER CONDITIONS: CLEAR, CALM, 54° | | | | | | | | |
| DTW (FEET) | 48.66 | WATER APPEARANCE / ODOR: BROWN NO ODOR | | | | | | | | |
| SAMPLE TIME | 0835 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-44 | 0835 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

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SIGNATURE: 

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THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|-------------------|-------------------------|---|----------------------|---------------------------|--------------------------|----------------------|---|----------------|-------------------------|----------|
| MKTf-25 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.8.16 | Initial | 1339 | 6.94 | 16.6 | 3262 | — | — | 19.1 | 45.2 |
| GAUGE TIME | 1330 1330 | 1 | 1341 | 6.93 | 15.0 | 3223 | — | — | 22.1 | 21.8 |
| DHC (FEET) | ND | 2 | 1344 | 6.94 | 14.6 | 3299 | — | — | 26.0 | 3.3 |
| DTW (FEET) | 12.17 | 3 | 1350 | BAILED DOWN @ 3.5 GALLONS | | | | | | |
| DTB (FEET) | 19.50 | 4 | | NO RECOVERY | | | | | | |
| DTB - DTW | 7.33 | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 3.58 | WEATHER CONDITIONS: MODERATE CLEAR, WEST WIND, 82° | | | | | | | | |
| PURGE DATE | 9.8.16 | WATER APPEARANCE / ODOR: CLEAR → BROWN → MUDDY, ODOR | | | | | | | | |
| END OF PURGE TIME | 1350 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 3.5 19.35 | | | | | | | | | |
| DTW (FEET) | 19.35 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.9.16 | WEATHER CONDITIONS: CLEAR CALM 63° | | | | | | | | |
| DTW (FEET) | 12.10' | WATER APPEARANCE / ODOR: BROWN, NO ODOR | | | | | | | | |
| SAMPLE TIME | 0930 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTf-25 | 0930 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 40 ML VOA | 3 | | | | HCL | | | |
| | | 1 L AMBER | 2 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML / 125 ML PLASTIC | 2 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO₃ H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

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THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|--|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-43 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.9.16 | Initial | 0957 | 6.45 | 20.0 | 40919 | — | — | 33.6 | 151.3 |
| GAUGE TIME | 0947 | 1 | 0959 | 6.49 | 19.8 | 30631 | — | — | 23.5 | 152.5 |
| DHC (FEET) | ND | 2 | 1001 | 6.51 | 19.4 | 19445 | — | — | 20.7 | 157.3 |
| DTW (FEET) | 3.98 | 3 | 1003 | 6.54 | 19.0 | 24828 | — | — | 19.9 | 160.3 |
| DTB (FEET) | 15.43 | 4 | 1005 | 6.55 | 18.6 | 21480 | — | — | 24.1 | 161.6 |
| DTB - DTW | 11.45 | 5 | 1007 | 6.56 | 18.1 | 22180 | — | — | 22.9 | 163.9 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1009 | 6.58 | 17.9 | 23100 | — | — | 21.3 | 164.9 |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 5.60 | WEATHER CONDITIONS: CLEAR, LIGHT WEST WIND, 75° | | | | | | | | |
| PURGE DATE | 9.9.16 | WATER APPEARANCE / ODOR: CLEAR, NO ODOR | | | | | | | | |
| END OF PURGE TIME | 1009 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 6 GALS | | | | | | | | | |
| DTW (FEET) | 10.78 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.9.16 | WEATHER CONDITIONS: CLEAR, LIGHT WEST WIND, 77° | | | | | | | | |
| DTW (FEET) | 10.45' | WATER APPEARANCE / ODOR: CLEAR, NO ODOR | | | | | | | | |
| SAMPLE TIME | 1045 | COMMENTS: COLLECTED DUPO3 AT THIS WELL | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-43 | 1045 | 40ML VOA | 6 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

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SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|-------------------------|--|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| MKTF-42 | | | | | | | | | | |
| GAUGE DATE | 9.9.16 | Initial | 1129 | 7.94 | 15.5 | 3955 | — | — | 8.9 | 57.4 |
| GAUGE TIME | 1115 | 1 | 1131 | 7.93 | 14.3 | 3653 | — | — | 19.8 | 49.2 |
| DHC (FEET) | ND | 2 | 1133 | 7.90 | 13.8 | 3663 | — | — | 11.1 | 51.7 |
| DTW (FEET) | 17.30 | 3 | 1136 | 7.93 | 13.5 | 3627 | — | — | 16.2 | 56.4 |
| DTB (FEET) | 33.22 | 4 | 1139 | 7.98 | 13.3 | 3546 | — | — | 21.4 | 59.1 |
| DTB - DTW | 15.92 | 5 | 1142 | 7.96 | 13.9 | 3525 | — | — | 30.1 | 63.1 |
| CAPACITY PER FOOT | 0.74 - 4" 0.163 - 2" | 6 | 1145 | 7.98 | 13.3 | 3577 | — | — | 19.5 | 60.2 |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 7.78 | WEATHER CONDITIONS: CLEAR, LIGHT WEST WIND, 85° | | | | | | | | |
| PURGE DATE | 9.9.16 | WATER APPEARANCE / ODOR: CLEAR, GREENISH GRAY, ODOR | | | | | | | | |
| END OF PURGE TIME | 1145 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 8 GALS | | | | | | | | | |
| DTW (FEET) | 23.70 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.9.16 | WEATHER CONDITIONS: CLEAR LIGHT NORTH WIND, 85° | | | | | | | | |
| DTW (FEET) | 23.50 | WATER APPEARANCE / ODOR: CLEAR, GREENISH GRAY, ODOR | | | | | | | | |
| SAMPLE TIME | 1215 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-42 | 1215 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

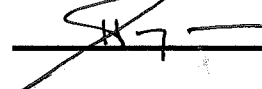
COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|---|----------------------|------|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTF-32 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.9.16 | Initial | 1243 | 7.77 | 18.9 | 2589 | — | — | 13.4 | 76.0 |
| GAUGE TIME | 1230 | 1 | 1246 | 7.77 | 15.3 | 2764 | — | — | 21.2 | 78.1 |
| DHC (FEET) | ND | 2 | 1248 | 7.78 | 14.5 | 2782 | — | — | 24.5 | 80.5 |
| DTW (FEET) | 14.40 | 3 | 1250 | 7.82 | 14.1 | 2887 | — | — | 26.0 | 82.2 |
| DTB (FEET) | 27.70 | 4 | 1252 | 7.81 | 13.9 | 3024 | — | — | 25.3 | 83.8 |
| DTB - DTW | 13.30 | 5 | 1254 | 7.82 | 13.8 | 2964 | — | — | 27.0 | 84.0 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1256 | 7.83 | 13.7 | 2939 | — | — | 22.7 | 88.0 |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 6.50 | WEATHER CONDITIONS: CLEAR, LIGHT WEST WIND 86° | | | | | | | | |
| PURGE DATE | 9.9.16 | WATER APPEARANCE / ODOR: CLEAR, LIGHT BROWN, NO ODOR | | | | | | | | |
| END OF PURGE TIME | 1256 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 6.5 | | | | | | | | | |
| DTW (FEET) | 21.45 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.9.16 | WEATHER CONDITIONS: CLEAR, LIGHT WEST WIND 86° | | | | | | | | |
| DTW (FEET) | 21.40 | WATER APPEARANCE / ODOR: LIGHT BROWN, NO ODOR | | | | | | | | |
| SAMPLE TIME | 1320 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-32 | 1320 | 40ML VOA | 6 | | | | HCL | | | |
| | | 40ML VOA | 3 | | | | HCL | | | |
| | | 1 LAMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500ML/125ML PLASTIC | 2 | | | | HNO3 | | | |
| | | 125 ML PLASTIC | 1 | | | | H2SO4 | | | |
| | | 500ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|---|----------------------|------|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTf-41 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.9.16 | Initial | 1350 | 8.39 | 16.3 | 3250 | — | — | 54.3 | 69.5 |
| GAUGE TIME | 1340 | 1 | 1353 | 8.34 | 13.9 | 3243 | — | — | 42.1 | 74.4 |
| DHC (FEET) | ND | 2 | 1355 | 8.29 | 13.3 | 3239 | — | — | 46.7 | 76.7 |
| DTW (FEET) | 20.11 | 3 | 1358 | 8.27 | 13.1 | 3226 | — | — | 46.8 | 78.0 |
| DTB (FEET) | 39.78 | 4 | 1401 | 8.31 | 13.2 | 3217 | — | — | 39.7 | 78.9 |
| DTB - DTW | 19.67 | 5 | 1404 | 8.32 | 13.2 | 3219 | — | — | 32.4 | 79.1 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1407 | 8.33 | 13.3 | 3220 | — | — | 27.4 | 79.4 |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 9.61 | WEATHER CONDITIONS: CLEAR, MOD WEST WIND, 85° | | | | | | | | |
| PURGE DATE | 9.9.16 | WATER APPEARANCE / ODOR: CLEAR → GREY, NO ODOR | | | | | | | | |
| END OF PURGE TIME | 1407 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 10 GALS | | | | | | | | | |
| DTW (FEET) | 34.03 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.9.16 | WEATHER CONDITIONS: CLEAR, CALM, 85° | | | | | | | | |
| DTW (FEET) | 31.90 | WATER APPEARANCE / ODOR: GREY, NO ODOR | | | | | | | | |
| SAMPLE TIME | 1500 | COMMENTS: COLLECTED FB090916 @ 1420 AT THIS WELL | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTf-41 | 1500 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 40 ML VOA | 3 | | | | HCL | | | |
| | | 1 LITER AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC/125ML P | 2 | | | | HNO3 | | | |
| | | 125ML PLASTIC | 1 | | | | H2SO4 | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YST PRO DSS | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: [Signature]

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|--|----------------------|--|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTG-12 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.10.16 | Initial | | | | | | | | |
| GAUGE TIME | 1347 | 1 | | | | | | | | |
| DHC (FEET) | 19.23 | 2 | | NO SAMPLES COLLECTED 0.32' OF HYDROCARBON DETECTED IN WELL | | | | | | |
| DTW (FEET) | 19.55 | 3 | | | | | | | | |
| DTB (FEET) | 25.90 | 4 | | | | | | | | |
| DTB - DTW | NA | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | | WEATHER CONDITIONS: | | | | | | | | |
| PURGE DATE | | WATER APPEARANCE / ODOR: | | | | | | | | |
| END OF PURGE TIME | | COMMENTS: <div style="text-align: center; font-style: italic;">HC - BROWN</div> | | | | | | | | |
| PURGE AMOUNT | | | | | | | | | | |
| DTW (FEET) | | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | | WEATHER CONDITIONS: | | | | | | | | |
| DTW (FEET) | | WATER APPEARANCE / ODOR: | | | | | | | | |
| SAMPLE TIME | | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| | | | | | | | | | | |
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| INSTRUMENTS USED | | <u>GEOTECH INTERFACE PROBE</u> | | | | | | | | |

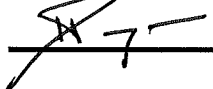
COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|-------------------|------------|--------------------------|----------------------|----------------------|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTF-13 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.10.16 | Initial | | | | | | | | |
| GAUGE TIME | 1340 | 1 | | | | | | | | |
| DHC (FEET) | 13.88 | 2 | | NO SAMPLES COLLECTED | | | | | | |
| DTW (FEET) | 14.86 | 3 | | 0.98' OF HYDROCARBON | | | | | | |
| DTB (FEET) | 21.78 | 4 | | DETECTED IN WELL | | | | | | |
| DTB - DTW | NA | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | | WEATHER CONDITIONS: | | | | | | | | |
| PURGE DATE | | WATER APPEARANCE / ODOR: | | | | | | | | |
| END OF PURGE TIME | | COMMENTS: HC - BROWN | | | | | | | | |
| PURGE AMOUNT | | | | | | | | | | |
| DTW (FEET) | | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | | WEATHER CONDITIONS: | | | | | | | | |
| DTW (FEET) | | WATER APPEARANCE / ODOR: | | | | | | | | |
| SAMPLE TIME | | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
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| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE | | | | | | | | |

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SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|--------------------------|--|----|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTF-14 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9-10-16 | Initial | | | | | | | | |
| GAUGE TIME | 1335 | 1 | | | | | | | | |
| DHC (FEET) | 7.31 | 2 | NO SAMPLES COLLECTED 1.69' OF HYDROCARBON DETECTED IN WELL | | | | | | | |
| DTW (FEET) | 9.00 | 3 | | | | | | | | |
| DTB (FEET) | 17.40 | 4 | | | | | | | | |
| DTB - DTW | NA | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | | WEATHER CONDITIONS: | | | | | | | | |
| PURGE DATE | | WATER APPEARANCE / ODOR: | | | | | | | | |
| END OF PURGE TIME | | COMMENTS: HC - CLEAR | | | | | | | | |
| PURGE AMOUNT | | | | | | | | | | |
| DTW (FEET) | | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | | WEATHER CONDITIONS: | | | | | | | | |
| DTW (FEET) | | WATER APPEARANCE / ODOR: | | | | | | | | |
| SAMPLE TIME | | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
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| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE | | | | | | | | |
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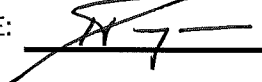
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SIGNATURE: 

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THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|--|----------------------|--------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-22 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.10.16 | Initial | 1210 | 7.15 | 14.6 | 1884 | — | — | 18.2 | -56.5 |
| GAUGE TIME | 1200 | 1 | 1212 | 7.15 | 13.1 | 1764 | — | — | 23.8 | -93.7 |
| DHC (FEET) | ND | 2 | 1214 | 7.15 | 12.6 | 1787 | — | — | 22.3 | -99.1 |
| DTW (FEET) | 26.13 | 3 | 1216 | 7.24 | 12.5 | 1821 | — | — | 21.0 | -97.9 |
| DTB (FEET) | 35.60 | 4 | 1219 | 7.25 | 12.7 | 1837 | — | — | 20.8 | -98.2 |
| DTB - DTW | 9.47 | 5 | 1221 | 7.24 | 12.6 | 1843 | — | — | 19.9 | -96.7 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1225 | BAILED | DRY @ | 4 | GALLONS | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 4.6 | WEATHER CONDITIONS: CLEAR, MOD SE WIND, 78° | | | | | | | | |
| PURGE DATE | 9.10.16 | WATER APPEARANCE / ODOR: CLEAR → PINK-BROWN, ODOR | | | | | | | | |
| END OF PURGE TIME | 1225 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 4 GAL | | | | | | | | | |
| DTW (FEET) | 35.03 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.10.16 | WEATHER CONDITIONS: PTLY CLOUDY, CALM, 85° | | | | | | | | |
| DTW (FEET) | 26.15 | WATER APPEARANCE / ODOR: CLEAR, ODOR | | | | | | | | |
| SAMPLE TIME | 1600 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-22 | 1600 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

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SIGNATURE: 

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THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|-------------------|------------|--------------------------|----------------------|--|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTF-23 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.10.16 | Initial | | | | | | | | |
| GAUGE TIME | 1325 | 1 | | | | | | | | |
| DHC (FEET) | 15.04 | 2 | | NO SAMPLES COLLECTED 0.11' OF HYDROCARBON DETECTED IN WELL | | | | | | |
| DTW (FEET) | 15.15 | 3 | | | | | | | | |
| DTB (FEET) | 20.36 | 4 | | | | | | | | |
| DTB - DTW | NA | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | | WEATHER CONDITIONS: | | | | | | | | |
| PURGE DATE | | WATER APPEARANCE / ODOR: | | | | | | | | |
| END OF PURGE TIME | | COMMENTS: HC - CLEAR | | | | | | | | |
| PURGE AMOUNT | | | | | | | | | | |
| DTW (FEET) | | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | | WEATHER CONDITIONS: | | | | | | | | |
| DTW (FEET) | | WATER APPEARANCE / ODOR: | | | | | | | | |
| SAMPLE TIME | | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
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| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE | | | | | | | | |
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SIGNATURE: 

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WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|--|----------------------|------|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| M/KTF-33 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.10.16 | Initial | 1250 | 7.56 | 14.3 | 1775 | — | — | 19.4 | 42.3 |
| GAUGE TIME | 1240 | 1 | 1253 | 7.41 | 13.0 | 1733 | — | — | 18.6 | 53.5 |
| DHC (FEET) | ND | 2 | 1255 | 7.48 | 12.8 | 1726 | — | — | 21.6 | 58.1 |
| DTW (FEET) | 23.20 | 3 | 1257 | 7.39 | 12.7 | 1745 | — | — | 18.9 | 62.9 |
| DTB (FEET) | 33.01 | 4 | 1259 | 7.41 | 12.7 | 1769 | — | — | 19.0 | 66.6 |
| DTB - DTW | 9.81 | 5 | 1301 | 7.42 | 12.6 | 1764 | — | — | 18.8 | 69.2 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1303 | 7.41 | 12.5 | 1768 | — | — | 18.1 | 70.2 |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 4.79 | WEATHER CONDITIONS: CLEAR, SE WIND, 76° | | | | | | | | |
| PURGE DATE | 9.10.16 | WATER APPEARANCE / ODOR: CLEAR → PINK-BROWN, FAINT ODOR | | | | | | | | |
| END OF PURGE TIME | 1303 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 5 GALS | | | | | | | | | |
| DTW (FEET) | 26.45 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.10.16 | WEATHER CONDITIONS: CLEAR, CALM, 85° | | | | | | | | |
| DTW (FEET) | 23.25 | WATER APPEARANCE / ODOR: CLEAR NO ODOR | | | | | | | | |
| SAMPLE TIME | 1520 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-33 | 1520 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO3 | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO3 | | | |
| | | 125 ML PLASTIC | 1 | | | | H2SO4 | | | |
| ✓ | ✓ | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

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THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|--|----------------------|------|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| MKTF-31 | | | | | | | | | | |
| GAUGE DATE | 9.8.16 | Initial | 1430 | 7.02 | 19.4 | 3718 | — | — | 18.1 | 50.3 |
| GAUGE TIME | 1420 | 1 | 1433 | 7.01 | 18.6 | 3811 | — | — | 18.5 | 59.1 |
| DHC (FEET) | ND | 2 | 1436 | 7.07 | 18.3 | 3756 | — | — | 22.2 | 61.8 |
| DTW (FEET) | 8.48 | 3 | 1438 | 7.08 | 18.4 | 3664 | — | — | 24.9 | 63.8 |
| DTB (FEET) | 22.48 | 4 | 1440 | 7.10 | 18.3 | 3611 | — | — | 25.9 | 65.3 |
| DTB - DTW | 14.00 | 5 | 1443 | 7.09 | 18.3 | 3605 | — | — | 28.0 | 66.7 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1446 | 7.08 | 18.3 | 3620 | — | — | 29.1 | 66.5 |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 6.85 | WEATHER CONDITIONS: CLEAR, MOD WEST WIND, 81° | | | | | | | | |
| PURGE DATE | 9.8.16 | WATER APPEARANCE / ODOR: CLEAR → BROWN, NO ODOR | | | | | | | | |
| END OF PURGE TIME | 1446 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 7.6 GALS | | | | | | | | | |
| DTW (FEET) | 10.30 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.8.16 | WEATHER CONDITIONS: CLEAR, CALM, 80° | | | | | | | | |
| DTW (FEET) | 9.57 | WATER APPEARANCE / ODOR: CLEAR, NO ODOR | | | | | | | | |
| SAMPLE TIME | 1625 | COMMENTS: 1500 COLLECTED FB090816 @ 1300; COLLECTED DUPOZ | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-31 | 1625 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 40 ML VOA | 3 | | | | HCL | | | |
| | | 1L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML/125 ML PLASTIC | 2 | | | | HNO3 | | | |
| | | 125 ML PLASTIC | 1 | | | | H2SO4 | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

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THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|---|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-40 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.8.16 | Initial | 1647 | 6.86 | 17.0 | 12850 | — | — | 56.8 | 89.4 |
| GAUGE TIME | 1435 | 1 | 1649 | 7.12 | 16.3 | 6235 | — | — | 62.2 | 82.9 |
| DHC (FEET) | ND | 2 | 1651 | 7.12 | 15.8 | 9239 | — | — | 61.2 | 89.4 |
| DTW (FEET) | 13.52 | 3 | 1653 | 7.02 | 15.2 | 10950 | — | — | 59.0 | 94.6 |
| DTB (FEET) | 23.67 | 4 | 1655 | 7.03 | 14.9 | 11715 | — | — | 58.2 | 97.2 |
| DTB - DTW | 10.15 | 5 | 1657 | 6.99 | 14.6 | 13672 | — | — | 54.5 | 101.3 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1659 | 7.03 | 14.3 | 15129 | — | — | 46.7 | 103.3 |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 4.96 | WEATHER CONDITIONS: CLEAR CALM 84° | | | | | | | | |
| PURGE DATE | 9.8.16 | WATER APPEARANCE / ODOR: CLEAR → GREY, NO ODOR | | | | | | | | |
| END OF PURGE TIME | 1659 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 5 GALS | | | | | | | | | |
| DTW (FEET) | 20.48 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.8.16 | WEATHER CONDITIONS: CLEAR CALM 84° | | | | | | | | |
| DTW (FEET) | 20.20 | WATER APPEARANCE / ODOR: GREY, NO ODOR | | | | | | | | |
| SAMPLE TIME | 1730 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-40 | 1730 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

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THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|-----------------------------|--|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-28 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.8.16 9.8.16 | Initial | 1224 | 7.44 | 22.9 | 2419 | — | — | 63.7 | 76.8 |
| GAUGE TIME | 1212 | 1 | 1226 | 7.45 | 22.4 | 2363 | — | — | 66.1 | 77.7 |
| DHC (FEET) | ND | 2 | 1227 | 7.46 | 22.2 | 2466 | — | — | 60.6 | 81.9 |
| DTW (FEET) | 6.40 | 3 | 1229 | 7.42 | 22.0 | 2685 | — | — | 50.9 | 84.4 |
| DTB (FEET) | 16.18 | 4 | 1231 | 7.37 | 21.9 | 2786 | — | — | 49.1 | 85.4 |
| DTB - DTW | 9.78 | 5 | 1232 | 7.55 | 21.6 | 2916 | — | — | 39.7 | 86.6 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1235 | 7.48 | 21.5 | 3075 | — | — | 32.4 | 88.6 |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 4.78 | WEATHER CONDITIONS: CLEAR, WEST WIND, 79° | | | | | | | | |
| PURGE DATE | 9.8.16 | WATER APPEARANCE / ODOR: CLEAR → LIGHT BROWN, NO ODOR | | | | | | | | |
| END OF PURGE TIME | 1235 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 5 GALS | | | | | | | | | |
| DTW (FEET) | 12.80 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.8.16 | WEATHER CONDITIONS: CLEAR, WEST WIND 79° | | | | | | | | |
| DTW (FEET) | 12.80 | WATER APPEARANCE / ODOR: LIGHT BROWN, NO ODOR | | | | | | | | |
| SAMPLE TIME | 1300 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-28 | 1300 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 L AMBER | 2 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

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WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|-------------------------|------------|--------------------------|----------------------|----|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKT-01 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.7.16 | Initial | | | | | | | | |
| GAUGE TIME | 1123 | 1 | | | | | | | | |
| DHC (FEET) | 7.12 | 2 | DID NOT SAMPLE | | | | | | | |
| DTW (FEET) | 8.62 | 3 | 1.50' OF HC IN WELL | | | | | | | |
| DTB (FEET) | 17.53 | 4 | | | | | | | | |
| DTB - DTW | NA | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | | WEATHER CONDITIONS: | | | | | | | | |
| PURGE DATE | | WATER APPEARANCE / ODOR: | | | | | | | | |
| END OF PURGE TIME | | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | | | | | | | | | | |
| DTW (FEET) | | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | | WEATHER CONDITIONS: | | | | | | | | |
| DTW (FEET) | | WATER APPEARANCE / ODOR: | | | | | | | | |
| SAMPLE TIME | | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
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| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE | | | | | | | | | | |

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WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|-------------------|---|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTFF-02 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.7.16 | Initial | 1038 | 7.55 | 16.9 | 2607 | — | — | 25.3 | -14.3 |
| GAUGE TIME | 1025 | 1 | 1044 | 7.39 | 14.4 | 1350 | — | — | 19.8 | -46.4 |
| DHC (FEET) | ND | 2 | 1053 | 7.46 | 13.0 | 3518 | — | — | 27.6 | -63.2 |
| DTW (FEET) | 20.828 | 3 | BAILED DOWN @ 18 | | | | | | | |
| DTB (FEET) | 20.41 | 4 | | | | | | | | |
| DTB - DTW | 12.13 | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 26.93 | WEATHER CONDITIONS: CALM, CLOUDY, 68° | | | | | | | | |
| PURGE DATE | 9.7.16 | WATER APPEARANCE / ODOR: CLEAR, TURNED TURBID PINK-BROWN, ODOR | | | | | | | | |
| END OF PURGE TIME | 10:53 | COMMENTS: BAILED DOWN @ 18 GALLONS - NO RECOVERY IN BAILER | | | | | | | | |
| PURGE AMOUNT | 18. | | | | | | | | | |
| DTW (FEET) | 20.00 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.7.16 | WEATHER CONDITIONS: CALM CLOUDY 76° | | | | | | | | |
| DTW (FEET) | 17.35 | WATER APPEARANCE / ODOR: CLEAR - PINK BROWN, ODOR | | | | | | | | |
| SAMPLE TIME | 1545 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTFF-02 | 1545 | 40ML VOA | 6 | | | | HCL | | | |
| | 1545 | 40ML VOA | 3 | | | | HCL | | | |
| | | 1L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML / 125 ML PLASTIC | 2 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |


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SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|---|--------------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| MKTF-24 | | | | | | | | | | |
| GAUGE DATE | 9.7.16 | Initial | 0846 | 6.74 | 14.0 | 130.4 | - | - | 16.5 | 106.6 |
| GAUGE TIME | 0833 | 1 | 0850 | 6.86 | 12.8 | 3630 | - | - | 16.9 | 77.5 |
| DHC (FEET) | ND | 2 | 0854 | 7.82 | 12.7 | 3511 | - | - | 23.8 | 48.2 |
| DTW (FEET) | 22.69 | 3 | BAILED DRY @ 3.5 GALLONS | | | | | | | |
| DTB (FEET) | 30.82 | 4 | | | | | | | | |
| DTB - DTW | 8.13 | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 3.98 | WEATHER CONDITIONS: CALM, CLOUDY, 66° | | | | | | | | |
| PURGE DATE | 9.7.16 | WATER APPEARANCE / ODOR: CLEAR → CLOUDY PINK BROWN - NO ODOR | | | | | | | | |
| END OF PURGE TIME | 0900 | COMMENTS: BAILED DRY @ 3.5 GALLONS | | | | | | | | |
| PURGE AMOUNT | 3.50 | | | | | | | | | |
| DTW (FEET) | 30.80 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.7.16 | WEATHER CONDITIONS: CALM, CLOUDY, 66° | | | | | | | | |
| DTW (FEET) | 25.90 | WATER APPEARANCE / ODOR: CLEAR → CLOUDY PINK-BROWN - NO ODOR | | | | | | | | |
| SAMPLE TIME | 0945 | COMMENTS: COLLECTED FB090716@0915@THIS WELL-SAME SUITE | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-24 | 0945 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 40 ML VOA | 3 | | | | HCL | | | |
| | | 1L AMBER | 1 | | | | - | | | |
| | | 250 200 ML AMBER | 1 | | | | - | | | |
| | | 500 ML / 125 ML PLASTIC | 2 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | - | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |


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SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|-------------------|------------|--------------------------|---------------------------------------|----|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTJ-26 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.7.16 | Initial | | | | | | | | |
| GAUGE TIME | 1110 | 1 | | | | | | | | |
| DHC (FEET) | 9.44 | 2 | DID NOT SAMPLE 1.37' OF HC IN WELL | | | | | | | |
| DTW (FEET) | 10.81 | 3 | | | | | | | | |
| DTB (FEET) | 16.91 | 4 | | | | | | | | |
| DTB - DTW | NA | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | | WEATHER CONDITIONS: | | | | | | | | |
| PURGE DATE | | WATER APPEARANCE / ODOR: | | | | | | | | |
| END OF PURGE TIME | | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | | | | | | | | | | |
| DTW (FEET) | | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | | WEATHER CONDITIONS: | | | | | | | | |
| DTW (FEET) | | WATER APPEARANCE / ODOR: | | | | | | | | |
| SAMPLE TIME | | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| INSTRUMENTS USED | | GEOTECH INTER FACE PROBE | | | | | | | | |

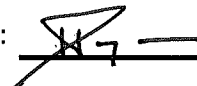
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SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|--|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-27 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.7.16 | Initial | 1203 | 7.02 | 19.0 | 9036 | — | — | 35.2 | 83.2 |
| GAUGE TIME | 1145 | 1 | 1207 | 7.03 | 18.0 | 9109 | — | — | 31.2 | 81.4 |
| DHC (FEET) | ND | 2 | 1210 | 7.02 | 17.9 | 9215 | — | — | 22.7 | 82.9 |
| DTW (FEET) | 8.06 | 3 | 1213 | 7.05 | 17.8 | 9225 | — | — | 20.5 | 82.6 |
| DTB (FEET) | 14.47 | 4 | | | | | | | | |
| DTB - DTW | 6.41 | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 3.13 | WEATHER CONDITIONS: CALM, CLOUDY, 74° | | | | | | | | |
| PURGE DATE | 9.7.16 | WATER APPEARANCE / ODOR: CLEAR - GRAY - NO ODOR | | | | | | | | |
| END OF PURGE TIME | 1213 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 3.25 | | | | | | | | | |
| DTW (FEET) | 12.70 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.7.16 | WEATHER CONDITIONS: CALM, CLOUDY, 78° | | | | | | | | |
| DTW (FEET) | 12.50 | WATER APPEARANCE / ODOR: CLEAR - GRAY - NO ODOR | | | | | | | | |
| SAMPLE TIME | 1300 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-27 | 1300 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 L AMBER | 2 | | | | — | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 2 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |


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THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|--|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-29 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.7.16 | Initial | 1347 | 7.64 | 19.8 | 1105 | — | — | 35.8 | 25.8 |
| GAUGE TIME | 1335 | 1 | 1350 | 7.59 | 18.6 | 2463 | — | — | 30.9 | 12.6 |
| DHC (FEET) | ND | 2 | 1352 | 7.51 | 17.3 | 2479 | — | — | 23.1 | 2.6 |
| DTW (FEET) | 4.52 | 3 | 1356 | 7.48 | 16.7 | 2457 | — | — | 17.0 | -1.3 |
| DTB (FEET) | 22.82 | 4 | 1359 | 7.48 | 16.9 | 2446 | — | — | 20.0 | -2.3 |
| DTB - DTW | 18.30 | 5 | 1402 | 7.47 | 17.0 | 2433 | — | — | 19.5 | -1.8 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 8.94 | WEATHER CONDITIONS: LIGHT WIND - WEST - CLOUDY - 80° | | | | | | | | |
| PURGE DATE | 9.7.16 | WATER APPEARANCE / ODOR: CLEAR → PINK BROWN — NO ODOR | | | | | | | | |
| END OF PURGE TIME | 1402 | COMMENTS: BAILED 9 GALS | | | | | | | | |
| PURGE AMOUNT | 9 GALS | | | | | | | | | |
| DTW (FEET) | 8.28 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.7.16 | WEATHER CONDITIONS: LIGHT WIND - WEST - CLOUDY - 80° | | | | | | | | |
| DTW (FEET) | 4.75 | WATER APPEARANCE / ODOR: CLEAR — PINK — NO ODOR | | | | | | | | |
| SAMPLE TIME | 1435 | COMMENTS: COLLECTED DUPO1 AT THIS WELL | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-29 | 1435 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

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THIRD QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|---|----------------------|-----------------------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-30 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 9.7.16 | Initial | 1321 | 7.22 | 17.2 | 4648 | — | — | 22.2 | 91.4 |
| GAUGE TIME | 1315 | 1 | 1323 | 7.21 | 16.6 | 4728 | — | — | 22.1 | 88.6 |
| DHC (FEET) | ND | 2 | 1326 | 7.23 | 16.3 | 4890 | — | — | 23.0 | 21.5 |
| DTW (FEET) | 15.48 | 3 | 1330 | BAILED DRY @ 3.5 GALS | | | | | | |
| DTB (FEET) | 23.15 | 4 | | | | | | | | |
| DTB - DTW | 7.67 | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 3.75 | WEATHER CONDITIONS: CALM, CLOUDY, 79° | | | | | | | | |
| PURGE DATE | 9.7.16 | WATER APPEARANCE / ODOR: CLEAR → TURBID → MUDDY PINK-BROWN | | | | | | | | |
| END OF PURGE TIME | 1330 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 3.50 | | | | | | | | | |
| DTW (FEET) | 22.86 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 9.7.16 | WEATHER CONDITIONS: CALM, CLOUDY, 76° | | | | | | | | |
| DTW (FEET) | 15.53 | WATER APPEARANCE / ODOR: CLEAR - GRAY- NO ODOR | | | | | | | | |
| SAMPLE TIME | 1615 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-30 | 1615 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 40 ML VOA | 3 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML / 125 ML PLASTIC | 2 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE YSI PRO DSS | | | | | | | | |

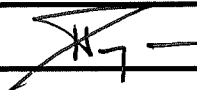
COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|--|------------|---|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTf-29 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 10.28.16 | Initial | 1032 | 7.47 | 16.4 | 2473 | — | — | 67.8 | 41.5 |
| GAUGE TIME | 1025 | 1 | 1034 | 7.49 | 16.6 | 2373 | — | — | 29.9 | 41.6 |
| DHC (FEET) | ND | 2 | 1037 | 7.44 | 16.9 | 2374 | — | — | 20.4 | 42.4 |
| DTW (FEET) | 3.10 | 3 | 1040 | 7.44 | 16.9 | 2266 | — | — | 23.1 | 42.6 |
| DTB (FEET) | 22.82 | 4 | 1043 | 7.44 | 16.9 | 2375 | — | — | 25.0 | 49.9 |
| DTB - DTW | 19.72 | 5 | 1046 | 7.43 | 16.9 | 2377 | — | — | 25.1 | 44.4 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1049 | 7.42 | 16.9 | 2374 | — | — | 38.2 | 44.2 |
| | 0.163 - 2" | | | | | | | | | |
| 3.21 | | PURGING DATA | | | | | | | | |
| 3 WELL VOLUMES | 9.64 | WEATHER CONDITIONS: CLEAR, LT SE WIND, 69° | | | | | | | | |
| PURGE DATE | 10.28.16 | WATER APPEARANCE / ODOR: CLEAR, NO ODOR → CLOUDY, LT BROWN | | | | | | | | |
| END OF PURGE TIME | 1049 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 9.75 | | | | | | | | | |
| DTW (FEET) | 10.50 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 10.28.16 | WEATHER CONDITIONS: SAME AS ABOVE | | | | | | | | |
| DTW (FEET) | 3.20 | WATER APPEARANCE / ODOR: CLEAR, NO ODOR | | | | | | | | |
| SAMPLE TIME | 1140 | COMMENTS: COLLECTED FB102816@1105, EDLE COLLECTED DUPO1 | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTf-29 | 1140 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 L AMBER | 2 | | | | — | | | |
| | | 250 ML AMBER | 1 | | | | — | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | — | | | |
| INSTRUMENTS USED GEOTECH INTERFACE PROBE, YSI PRO PLUS | | | | | | | | | | |

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SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|---------------------------------------|------------|--|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| MKTF-27 | | | | | | | | | | |
| GAUGE DATE | 10.28.16 | Initial | 1230 | 7.12 | 18.6 | 8617 | — | — | 85.7 | 125.1 |
| GAUGE TIME | 1225 | 1 | 1232 | 7.05 | 17.2 | 8831 | — | — | 54.1 | 126.2 |
| DHC (FEET) | ND | 2 | 1234 | 7.06 | 17.1 | 8986 | — | — | 43.8 | 129.9 |
| DTW (FEET) | 8.10 | 3 | 1236 | 7.05 | 17.0 | 8980 | — | — | 39.4 | 128.1 |
| DTB (FEET) | 14.73 | 4 | | | | | | | | |
| DTB - DTW | 6.63 | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| 1.08 PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 3.24 | WEATHER CONDITIONS: CLEAR, LIGHT SOUTH WIND, 75°, PARTLY CLOUDY | | | | | | | | |
| PURGE DATE | 10.28.16 | WATER APPEARANCE / ODOR: CLEAR, NO ODOR | | | | | | | | |
| END OF PURGE TIME | 1236 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 3.25 | | | | | | | | | |
| DTW (FEET) | 11.40 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 10.28.16 | WEATHER CONDITIONS: SAME AS ABOVE | | | | | | | | |
| DTW (FEET) | 11.40 | WATER APPEARANCE / ODOR: CLEAR / NO ODOR | | | | | | | | |
| SAMPLE TIME | 1255 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-27 | 1255 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE, YSI PRO PLUS | | | | | | | | | | |

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SIGNATURE: 

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FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|---------------------------------------|------------|---|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-28 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 10-28-16 | Initial | 1346 | 7.60 | 21.4 | 2621 | — | — | 92.6 | 108.4 |
| GAUGE TIME | 1340 | 1 | 1348 | 7.59 | 21.2 | 2530 | — | — | 67.2 | 111.3 |
| DHC (FEET) | ND | 2 | 1350 | 7.49 | 21.2 | 2603 | — | — | 57.4 | 110.4 |
| DTW (FEET) | 9.26 | 3 | 1351 | 7.46 | 21.2 | 2610 | — | — | 48.8 | 110.9 |
| DTB (FEET) | 16.15 | 4 | 1353 | 7.46 | 21.2 | 2610 | — | — | 46.7 | 109.1 |
| DTB - DTW | 6.89 | 5 | 1355 | 7.45 | 21.2 | 2621 | — | — | 44.5 | 110.0 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1357 | 7.45 | 21.2 | 2615 | — | — | 43.8 | 110.2 |
| | 0.163 - 2" | | | | | | | | | |
| 1.12 PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 3.36 | WEATHER CONDITIONS: PARTLY CLOUDY, SOUTH WIND, 74° | | | | | | | | |
| PURGE DATE | 10-28-16 | WATER APPEARANCE / ODOR: CLEAR / NO ODOR → CLOUDY, BROWN | | | | | | | | |
| END OF PURGE TIME | 1357 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 3.5 | | | | | | | | | |
| DTW (FEET) | 13.20 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 10-28-16 | WEATHER CONDITIONS: SAME AS ABOVE | | | | | | | | |
| DTW (FEET) | 13.20 | WATER APPEARANCE / ODOR: CLOUDY, BROWN, NO ODOR | | | | | | | | |
| SAMPLE TIME | 1415 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-28 | 1415 | 40 ML VOA | 6 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE, YSI PRO PLUS | | | | | | | | | | |

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SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|--------------------------------------|------------|---|--------------------------|------|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTF-24 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 10.28.16 | Initial | 0803 | 7.01 | 12.8 | 3335 | — | — | 25.7 | 118.8 |
| GAUGE TIME | 0755 | 1 | 0806 | 6.94 | 12.8 | 3420 | — | — | 32.0 | 97.5 |
| DHC (FEET) | ND | 2 | 0809 | 6.97 | 12.7 | 3427 | — | — | 20.4 | 86.6 |
| DTW (FEET) | 22.34 | 3 | 0812 | 6.99 | 12.7 | 3320 | — | — | 22.4 | 75.5 |
| DTB (FEET) | 30.76 | 4 | BAILED DRY @ 3.5 GALLONS | | | | | | | |
| DTB - DTW | 8.42 | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| 1.37 PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 4.11 | WEATHER CONDITIONS: CLOUDY, CALM, 49° | | | | | | | | |
| PURGE DATE | 10.28.14 | WATER APPEARANCE / ODOR: CLOUDY, PINK, NO ODOR | | | | | | | | |
| END OF PURGE TIME | 0815 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 3.5 | | | | | | | | | |
| DTW (FEET) | 30.51 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 10.28.16 | WEATHER CONDITIONS: CLOUDY 75° SOUTH WIND | | | | | | | | |
| DTW (FEET) | 22.60 | WATER APPEARANCE / ODOR: CLEAR, NO ODOR | | | | | | | | |
| SAMPLE TIME | 1500 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-24 | 1500 | 40 ML VOA | 9 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO3 | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO3 | | | |
| | | 125 ML PLASTIC | 1 | | | | H2SO4 | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTEFACE PROBE, YSI PRO PLUS | | | | | | | | | | |

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FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|---------------------------------------|--------------------------------|--|-------------------------|-------------------------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-02 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 10-28-16 MKTF-02 | Initial | 0903 | 7.34 | 14.3 2775 | 2775 | — | — | 26.2 | 34.4 |
| GAUGE TIME | 0835 | 1 | 0906 | 7.34 7.34 | 14.05 | 2818 | — | — | 18.7 | 27.0 |
| DHC (FEET) | ND | 2 | 0909 | 7.29 | 14.1 | 2923 | — | — | 17.7 | 13.0 |
| DTW (FEET) | 8.55 | 3 | 0912 | 7.29 | 14.0 | 3040 | — | — | 19.6 | 0.9 |
| DTB (FEET) | 20.50 | 4 | BAILED DRY @ 18 GALLONS | | | | | | | |
| DTB - DTW | 11.95 | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| 8.84 | | PURGING DATA | | | | | | | | |
| 3 WELL VOLUMES | 26.5 | WEATHER CONDITIONS: CLOUDY, CALM, 53° | | | | | | | | |
| PURGE DATE | 10-28-16 | WATER APPEARANCE / ODOR: CLEAR, ODOR → CLOUDY, PINK | | | | | | | | |
| END OF PURGE TIME | 0915 | COMMENTS: BAILED DRY | | | | | | | | |
| PURGE AMOUNT | 18 | | | | | | | | | |
| DTW (FEET) | 20.00 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 10-28-16 | WEATHER CONDITIONS: CLOUDY, SOUTH WIND, 75° | | | | | | | | |
| DTW (FEET) | 16.60 | WATER APPEARANCE / ODOR: CLEAR, ODOR | | | | | | | | |
| SAMPLE TIME | 1530 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-02 | 1530 | 40 ML VOA | 9 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE, YSI PRO PLUS | | | | | | | | | | |

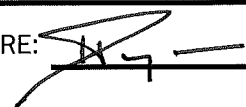
COMPLETED BY: TRACY PAYNE

SIGNATURE: 

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FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|---|------------|--------------------------|----------------------|---|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MIKE MKTF-01 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 10-28-16 | Initial | | | | | | | | |
| GAUGE TIME | 1550 | 1 | | | | | | | | |
| DHC (FEET) | 7.53 | 2 | | DID NOT SAMPLE 1.35 FEET OF HC IN WELL | | | | | | |
| DTW (FEET) | 8.88 | 3 | | | | | | | | |
| DTB (FEET) | 17.43 | 4 | | | | | | | | |
| DTB - DTW | NA | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | | WEATHER CONDITIONS: | | | | | | | | |
| PURGE DATE | | WATER APPEARANCE / ODOR: | | | | | | | | |
| END OF PURGE TIME | | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | | | | | | | | | | |
| DTW (FEET) | | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | | WEATHER CONDITIONS: | | | | | | | | |
| DTW (FEET) | | WATER APPEARANCE / ODOR: | | | | | | | | |
| SAMPLE TIME | | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
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| INSTRUMENTS USED <u>GEOTECH INTERFACE PROBE</u> | | | | | | | | | | |
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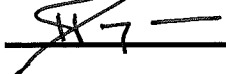
COMPLETED BY: TRACY PAYNE

SIGNATURE: 

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FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|-------------------------|------------|--------------------------|----------------------|-------------------------|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTF-26 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 10.28.16 | Initial | | | | | | | | |
| GAUGE TIME | 1555 | 1 | | | | | | | | |
| DHC (FEET) | 9.36 | 2 | | | DID NOT SAMPLE | | | | | |
| DTW (FEET) | 10.75 | 3 | | 1.39 FEET OF HC IN WELL | | | | | | |
| DTB (FEET) | 17.16 | 4 | | | | | | | | |
| DTB - DTW | NA | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | | WEATHER CONDITIONS: | | | | | | | | |
| PURGE DATE | | WATER APPEARANCE / ODOR: | | | | | | | | |
| END OF PURGE TIME | | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | | | | | | | | | | |
| DTW (FEET) | | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | | WEATHER CONDITIONS: | | | | | | | | |
| DTW (FEET) | | WATER APPEARANCE / ODOR: | | | | | | | | |
| SAMPLE TIME | | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
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| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE | | | | | | | | | | |

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WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|--------------------------------------|------------|--|--------------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-30 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 10.28.16 | Initial | 0957 | 7.20 | 16.9 | 4452 | — | — | 35.6 | 46.0 |
| GAUGE TIME | 0950 | 1 | 0959 | 7.22 | 16.7 | 4515 | — | — | 29.5 | 44.2 |
| DHC (FEET) | ND | 2 | 1001 | 7.19 | 16.6 | 4648 | — | — | 33.7 | 42.7 |
| DTW (FEET) | 15.70 | 3 | 1002 | 7.22 | 16.5 | 4532 | — | — | 42.6 | 42.5 |
| DTB (FEET) | 23.20 | 4 | 1003 | 7.23 | 16.4 | 4793 | — | — | 29.5 | 41.3 |
| DTB - DTW | 7.5 | 5 | 1005 | 7.30 | 16.4 | 4673 | — | — | 44.0 | 40.4 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | BAILED DRY @ 3.5 GALLONS | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| 1.22 PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 3.67 | WEATHER CONDITIONS: PARTLY CLOUDY, LIGHT SE WIND, 55° | | | | | | | | |
| PURGE DATE | 10.28.16 | WATER APPEARANCE / ODOR: CLEAR, NO ODOR → CLOUDY, PINKISH BROWN | | | | | | | | |
| END OF PURGE TIME | 1007 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 3.5 | | | | | | | | | |
| DTW (FEET) | 22.80 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 10.28.16 | WEATHER CONDITIONS: CLOUDY, SW WIND 75° | | | | | | | | |
| DTW (FEET) | 15.67 | WATER APPEARANCE / ODOR: CLEAR, NO ODOR | | | | | | | | |
| SAMPLE TIME | 1630 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-30 | 1630 | 40 ML VOA | 9 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE, YSI PROPLUS | | | | | | | | | | |

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SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|---------------------------------------|------------|---|----------------------|------|--------------------------|----------------------|-----------|----------------|-------------------------|----------|
| | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| MKTF-40 | | | | | | | | | | |
| GAUGE DATE | 10.31.16 | Initial | 1032 | 6.80 | 15.2 | 9120 | — | — | 123.3 | 240.0 |
| GAUGE TIME | 1025 | 1 | 1034 | 7.04 | 15.7 | 8644 | — | — | 65.5 | 225.5 |
| DHC (FEET) | ND | 2 | 1036 | 7.05 | 15.5 | 9529 | — | — | 65.8 | 223.0 |
| DTW (FEET) | 13.576 | 3 | 1038 | 7.05 | 15.4 | 10543 | — | — | 61.6 | 222.4 |
| DTB (FEET) | 23.63 | 4 | 1040 | 7.02 | 15.1 | 11896 | — | — | 59.1 | 222.9 |
| DTB - DTW | 9.87 | 5 | 1042 | 7.02 | 15.1 | 11950 | — | — | 58.7 | 224.4 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1044 | 7.01 | 15.0 | 12506 | — | — | 53.6 | 224.1 |
| | 0.163 - 2" | | | | | | | | | |
| 1.61 / PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 4.82 | WEATHER CONDITIONS: CLEAR, STRONG SW WIND 63° | | | | | | | | |
| PURGE DATE | 10.31.16 | WATER APPEARANCE / ODOR: CLEAR → CLOUDY, NO ODOR | | | | | | | | |
| END OF PURGE TIME | 1044 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 5 GAS | | | | | | | | | |
| DTW (FEET) | 20.65 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 10.31.16 | WEATHER CONDITIONS: SAME AS ABOVE | | | | | | | | |
| DTW (FEET) | 20.65 | WATER APPEARANCE / ODOR: CLOUDY, NO ODOR | | | | | | | | |
| SAMPLE TIME | 1100 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | PRESERVATIVE | | | | | |
| MKTF-40 | 1100 | 40 ML VOA | 5 | | HCL | | | | | |
| | | 1 L AMBER | 1 | | NEAT | | | | | |
| | | 250 ML AMBER | 1 | | NEAT | | | | | |
| | | 500 ML PLASTIC | 1 | | HNO3 | | | | | |
| | | 125 ML PLASTIC | 1 | | HNO3 | | | | | |
| | | 125 ML PLASTIC | 1 | | H2SO4 | | | | | |
| | | 500 ML PLASTIC | 1 | | NEAT | | | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE, VSI PRO PLUS | | | | | | | | | | |

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SIGNATURE: 

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FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|---------------------------------------|------------|---|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-43 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 10.31.16 | Initial | 1130 | 6.11 | 15.2 | 50884 | — | — | 31.4 | 231.5 |
| GAUGE TIME | 1130 | 1 | 1138 | 6.32 | 15.1 | 52237 | — | — | 22.2 | 208.2 |
| DHC (FEET) | ND | 2 | 1140 | 6.30 | 15.2 | 52736 | — | — | 20.1 | 198.4 |
| DTW (FEET) | 5.12 | 3 | 1142 | 6.32 | 15.3 | 53545 | — | — | 19.5 | 191.5 |
| DTB (FEET) | 15.40 | 4 | 1144 | 6.33 | 15.4 | 54202 | — | — | 18.0 | 187.2 |
| DTB - DTW | 10.28 | 5 | 1146 | 6.34 | 15.5 | 54702 | — | — | 17.7 | 182.9 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1148 | 6.35 | 15.5 | 55110 | — | — | 20.1 | 179.7 |
| | 0.163 - 2" | | | | | | | | | |
| 1.68 PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 5.02 | WEATHER CONDITIONS: PARTLY CLOUDY, SS STRONG SW WIND, 67° | | | | | | | | |
| PURGE DATE | 10.31.16 | WATER APPEARANCE / ODOR: CLEAR / NO ODOR | | | | | | | | |
| END OF PURGE TIME | 1148 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 5.25 | | | | | | | | | |
| DTW (FEET) | 8.50 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 10.31.16 | WEATHER CONDITIONS: SAME AS ABOVE | | | | | | | | |
| DTW (FEET) | 8.50 | WATER APPEARANCE / ODOR: CLEAR / NO ODOR | | | | | | | | |
| SAMPLE TIME | 1200 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-43 | 1200 | 40 ML VOA | 5 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE, YSI PRO PLUS | | | | | | | | | | |

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SIGNATURE: 

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FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|--|------------|---|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-42 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 10.31.16 | Initial | 1238 | 7.66 | 15.9 | 3274 | — | — | 29.0 | 145.9 |
| GAUGE TIME | 1230 | 1 | 1241 | 7.83 | 14.7 | 3940 | — | — | 19.1 | 139.7 |
| DHC (FEET) | ND | 2 | 1243 | 7.82 | 14.2 | 3908 | — | — | 16.2 | 143.9 |
| DTW (FEET) | 17.25 | 3 | 1245 | 7.85 | 14.0 | 3827 | — | — | 15.2 | 146.2 |
| DTB (FEET) | 33.20 | 4 | 1247 | 7.97 | 13.8 | 3893 | — | — | 15.6 | 145.4 |
| DTB - DTW | 15.95 | 5 | 1250 | 7.97 | 13.7 | 3826 | — | — | 16.8 | 142.4 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1253 | 7.96 | 13.6 | 3849 | — | — | 19.8 | 129.6 |
| | 0.163 - 2" | | | | | | | | | |
| 2.60 PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 7.80 | WEATHER CONDITIONS: <i>PARTLY CLOUDY, STRONG SW WIND, 72°</i> | | | | | | | | |
| PURGE DATE | 10.31.15 | WATER APPEARANCE / ODOR: <i>CLEAR, AB AMBER, ODOR</i> | | | | | | | | |
| END OF PURGE TIME | 1253 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 8.00 | | | | | | | | | |
| DTW (FEET) | 26.50 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 10.31.15 | WEATHER CONDITIONS: <i>SAME AS ABOVE</i> | | | | | | | | |
| DTW (FEET) | 26.50 | WATER APPEARANCE / ODOR: <i>CLEAR, AMBER, ODOR</i> | | | | | | | | |
| SAMPLE TIME | 1310 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-42 | 1310 | 40 ML VDA | 5 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| <i>GEOTECH INTERFACE PROBE, YSI PRO PLUS</i> | | | | | | | | | | |

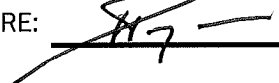
COMPLETED BY: TRACY PAYNE

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WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|---------------------------------------|------------|---|----------------------|------|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTF-32 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 10.31.16 | Initial | 1340 | 7.72 | 15.7 | 2708 | — | — | 105.7 | 162.4 |
| GAUGE TIME | 1335 | 1 | 1343 | 7.78 | 14.9 | 2710 | — | — | 55.4 | 158.4 |
| DHC (FEET) | ND | 2 | 1345 | 7.76 | 14.6 | 2823 | — | — | 30.4 | 152.2 |
| DTW (FEET) | 14.16 | 3 | 1347 | 7.77 | 14.4 | 2983 | — | — | 22.1 | 159.4 |
| DTB (FEET) | 27.76 | 4 | 1349 | 7.81 | 14.2 | 2875 | — | — | 20.5 | 158.8 |
| DTB - DTW | 13.60 | 5 | 1351 | 7.81 | 14.1 | 2892 | — | — | 20.9 | 158.1 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1353 | 7.81 | 14.0 | 2910 | — | — | 318.2 | 158.4 |
| | 0.163 - 2" | | | | | | | | | |
| 2.21 PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 6.65 | WEATHER CONDITIONS: PARTLY CLOUDY, STRONG SW WIND, 75° | | | | | | | | |
| PURGE DATE | 10.31.16 | WATER APPEARANCE / ODOR: CLEAR, NO ODOR | | | | | | | | |
| END OF PURGE TIME | 1353 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 6.75 | | | | | | | | | |
| DTW (FEET) | 22.30 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 10.31.16 | WEATHER CONDITIONS: SAME AS ABOVE | | | | | | | | |
| DTW (FEET) | 22.30 | WATER APPEARANCE / ODOR: CLEAR, NO ODOR | | | | | | | | |
| SAMPLE TIME | 1415 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-32 | 1415 | 40ML VOA | 5+3 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO3 | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO3 | | | |
| | | 125 ML PLASTIC | 1 | | | | H2SO4 | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE, YSI PRO PLUS | | | | | | | | | | |

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SIGNATURE: 

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FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|--|------------|---|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-41 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 10.31.16 | Initial | 1444 | 8.31 | 14.9 | 3219 | — | — | 120.3 | 178.1 |
| GAUGE TIME | 1438 | 1 | 1447 | 8.28 | 13.8 | 3196 | — | — | 54.9 | 175.2 |
| DHC (FEET) | ND | 2 | 1450 | 8.24 | 13.4 | 3185 | — | — | 58.4 | 175.0 |
| DTW (FEET) | 20.00 | 3 | 1453 | 8.25 | 13.2 | 3175 | — | — | 54.3 | 175.1 |
| DTB (FEET) | 39.72 | 4 | 1456 | 8.27 | 13.1 | 3167 | — | — | 52.7 | 174.9 |
| DTB - DTW | 19.72 | 5 | 1459 | 8.28 | 13.1 | 3169 | — | — | 47.4 | 174.9 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1502 | 8.28 | 13.1 | 3166 | — | — | 35.0 | 174.8 |
| | 0.163 - 2" | | | | | | | | | |
| 3.21 PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 9.64 | WEATHER CONDITIONS: <i>PARTLY CLOUDY, STRONG SW WIND, 75°</i> | | | | | | | | |
| PURGE DATE | 10.31.16 | WATER APPEARANCE / ODOR: <i>CLEAR, NO ODOR - LIGHT BROWN</i> | | | | | | | | |
| END OF PURGE TIME | 1502 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 9.75 | | | | | | | | | |
| DTW (FEET) | 33.63 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 10.31.16 | WEATHER CONDITIONS: | | | | | | | | |
| DTW (FEET) | 31.75 | WATER APPEARANCE / ODOR: | | | | | | | | |
| SAMPLE TIME | 1540 | COMMENTS: <i>COLLECTED FB03116 @ 1515 FULL SUITE + 3XTRA VOA</i> | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-41 | 1540 | 40 ML VOA | 5+3 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| <i>GEOTECH INTERFACE PROBE, YSI PRO PLUS</i> | | | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: *[Signature]*

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|---------------------------------------|---------------------|---|----------------------|--------------------------------|--------------------------|----------------------|-----------|----------------|-------------------------|----------|
| | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| MKTF-31 | | | | | | | | | | |
| GAUGE DATE | 10.31.16 | Initial | 0907 | 6.40 | 16.4 | 3022 | — | — | 32.1 | 137.7 |
| GAUGE TIME | 0902 | 1 | 0910 | 6.90 | 16.6 | 3572 | — | — | 17.2 | 122.2 |
| DHC (FEET) | ND | 2 | 0913 | 6.90 | 16.7 | 3571 | — | — | 16.0 | 118.6 |
| DTW (FEET) | 8.45 | 3 | 0916 | 6.98 | 16.7 | 3520 | — | — | 21.6 | 116.7 |
| DTB (FEET) | 22.40 | 4 | 0919 | 6.98 | 16.7 | 3490 | — | — | 21.6 | 115.7 |
| DTB - DTW | 13.95 | 5 | 0922 | 7.00 | 16.7 | 3465 | — | — | 21.0 | 114.9 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 0925 | 7.01 | 16.7 | 3454 | — | — | 25.9 | 114.7 |
| | 0.163 - 2" | | | | | | | | | |
| 2.27 PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 6.82 | WEATHER CONDITIONS: CLEAR, LT WEST WIND 50° | | | | | | | | |
| PURGE DATE | 10.31.16 | WATER APPEARANCE / ODOR: CLEAR → CLOUDY, NO ODOR | | | | | | | | |
| END OF PURGE TIME | 0925 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 7.00 | | | | | | | | | |
| DTW (FEET) | 10.15 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 10.31.16 | WEATHER CONDITIONS: SAME AS ABOVE | | | | | | | | |
| DTW (FEET) | 10.15 | WATER APPEARANCE / ODOR: CLOUDY, NO ODOR | | | | | | | | |
| SAMPLE TIME | 0945 | COMMENTS: COLLECTED ANALYST DUPOZ | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | PRESERVATIVE | | | | | | |
| MKTF-31 | 0945 | 40 ML VOA | 8 | HCL | | | | | | |
| | | 1 LITER AMBER | 2 | NEAT | | | | | | |
| | | 250 ML AMBER | 1 | NEAT | | | | | | |
| | | 500 ML PLASTIC | 1 | HNO ₃ | | | | | | |
| | | 125 ML PLASTIC | 1 | HNO ₃ | | | | | | |
| | | 125 ML PLASTIC | 1 | H ₂ SO ₄ | | | | | | |
| | | 500 ML PLASTIC | 1 | NEAT | | | | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE, YSI PRO PLUS | | | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|---------------------------------------|------------|--|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| MKTF-44 | | | | | | | | | | |
| GAUGE DATE | 10.31.16 | Initial | 0742 | 7.95 | 12.3 | 1895 | — | — | 97.9 | 212.6 |
| GAUGE TIME | 0735 | 1 | 0745 | 8.07 | 12.3 | 1888 | — | — | 71.5 | 201.7 |
| DHC (FEET) | ND | 2 | 0748 | 8.07 | 12.3 | 1922 | — | — | 69.9 | 201.7 |
| DTW (FEET) | 40.70 | 3 | 0751 | 8.09 | 12.3 | 1940 | — | — | 65.8 | 201.6 |
| DTB (FEET) | 51.18 | 4 | 0754 | 8.11 | 12.3 | 1968 | — | — | 63.6 | 200.9 |
| DTB - DTW | 10.48 | 5 | 0757 | 8.18 | 12.3 | 1855 | — | — | 44.3 | 198.9 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 0800 | 8.18 | 12.3 | 1875 | — | — | 40.9 | 199.1 |
| | 0.163 - 2" | | | | | | | | | |
| 1.71 PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 5.12 | WEATHER CONDITIONS: CLEAR CALM 43° | | | | | | | | |
| PURGE DATE | 10.31.16 | WATER APPEARANCE / ODOR: CLEAR → CLOUDY, BROWN, NO ODOR | | | | | | | | |
| END OF PURGE TIME | 0800 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 5.25 | | | | | | | | | |
| DTW (FEET) | 50.98 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 11.1.16 | WEATHER CONDITIONS: CLOUDY, LIGHT WEST WIND, 45° | | | | | | | | |
| DTW (FEET) | 48.70 | WATER APPEARANCE / ODOR: CLEAR, NO ODOR | | | | | | | | |
| SAMPLE TIME | 0745 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-44 | 0745 | 40 ML VOA | 5 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE, YSI PRO PLUS | | | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|--|------------|---|----------------------|------|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTF-25 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 10.31.16 | Initial | 0823 | 6.74 | 13.6 | 3050 | — | — | 57.0 | 148.7 |
| GAUGE TIME | 0817 | 1 | 0823 | 6.77 | 14.0 | 3119 | — | — | 24.5 | 102.8 |
| DHC (FEET) | ND | 2 | 0823 | 6.80 | 14.1 | 3216 | — | — | 17.9 | 84.7 |
| DTW (FEET) | 11.45 | 3 | 0829 | 6.82 | 14.2 | 3247 | — | — | 19.2 | 75.2 |
| DTB (FEET) | 19.85 | 4 | 0831 | 6.85 | 14.2 | 3267 | — | — | 23.2 | 68.4 |
| DTB - DTW | 8.40 | 5 | 0833 | 6.87 | 14.2 | 3266 | — | — | 24.1 | 62.2 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 0835 | 6.89 | 14.2 | 3280 | — | — | 21.5 | 60.6 |
| | 0.163 - 2" | | | | | | | | | |
| 1.34 PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 4.11 | WEATHER CONDITIONS: CLEAR, CALM, 45° | | | | | | | | |
| PURGE DATE | 10.31.16 | WATER APPEARANCE / ODOR: CLEAR → CLOUDY, PINKISH BROWN, ODOR | | | | | | | | |
| END OF PURGE TIME | 0835 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 4.25 | | | | | | | | | |
| DTW (FEET) | 11.97 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 11.1.16 | WEATHER CONDITIONS: CLOUDY, LIGHT WEST WIND 45° | | | | | | | | |
| DTW (FEET) | 11.40 | WATER APPEARANCE / ODOR: CLEAR → PINK, ODOR | | | | | | | | |
| SAMPLE TIME | 0820 | COMMENTS: COLLECTED DUPO3 AT THIS WELL | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-25 | 0820 | 40 ML VOA | 5+3 | | | | HCL | | | |
| | | 1 LAMBER | 2 | | | | NEAT | | | |
| | | 250 ML LAMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO3 | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO3 | | | |
| | | 125 ML PLASTIC | 1 | | | | H2SO4 | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE. PROBE, YSI PRO PLUS | | | | | | | | | | |

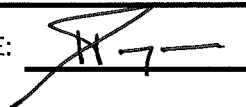
COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|--|------------|--------------------------|------------------------------|----|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| MKTF-23 | | | | | | | | | | |
| GAUGE DATE | 11.1.16 | Initial | | | | | | | | |
| GAUGE TIME | 1112 | 1 | | | | | | | | |
| DHC (FEET) | 14.80 | 2 | NO SAMPLES COLLECTED | | | | | | | |
| DTW (FEET) | 14.92 | 3 | 0.12' OF HC DETECTED IN WELL | | | | | | | |
| DTB (FEET) | 20.37 | 4 | | | | | | | | |
| DTB - DTW | NA | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | | WEATHER CONDITIONS: | | | | | | | | |
| PURGE DATE | | WATER APPEARANCE / ODOR: | | | | | | | | |
| END OF PURGE TIME | | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | | | | | | | | | | |
| DTW (FEET) | | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | | WEATHER CONDITIONS: | | | | | | | | |
| DTW (FEET) | | WATER APPEARANCE / ODOR: | | | | | | | | |
| SAMPLE TIME | | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
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| INSTRUMENTS USED <u>GEOTECH INTER FACE PROBE</u> | | | | | | | | | | |

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SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|--------------------------|----------------------|--|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTF-14 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 11.1.16 | Initial | | | | | | | | |
| GAUGE TIME | 1116 | 1 | | | | | | | | |
| DHC (FEET) | 7.45 | 2 | | NO SAMPLES COLLECTED 1.10' OF HC DETECTED IN WELL | | | | | | |
| DTW (FEET) | 8.55 | 3 | | | | | | | | |
| DTB (FEET) | 17.46 | 4 | | | | | | | | |
| DTB - DTW | NA | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | | WEATHER CONDITIONS: | | | | | | | | |
| PURGE DATE | | WATER APPEARANCE / ODOR: | | | | | | | | |
| END OF PURGE TIME | | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | | | | | | | | | | |
| DTW (FEET) | | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | | WEATHER CONDITIONS: | | | | | | | | |
| DTW (FEET) | | WATER APPEARANCE / ODOR: | | | | | | | | |
| SAMPLE TIME | | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
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| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE | | | | | | | | |

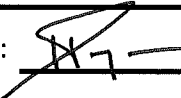
COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|--------------------------|----------------------|-----------------------------|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTF-13 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 11.1.16 | Initial | | | | | | | | |
| GAUGE TIME | 1121 | 1 | | | | | | | | |
| DHC (FEET) | 14.01 | 2 | | NO SAMPLES COLLECTED | | | | | | |
| DTW (FEET) | 14.97 | 3 | | 0.96 OF HC DETECTED IN WELL | | | | | | |
| DTB (FEET) | 21.22 | 4 | | | | | | | | |
| DTB - DTW | NA | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | | WEATHER CONDITIONS: | | | | | | | | |
| PURGE DATE | | WATER APPEARANCE / ODOR: | | | | | | | | |
| END OF PURGE TIME | | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | | | | | | | | | | |
| DTW (FEET) | | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | | WEATHER CONDITIONS: | | | | | | | | |
| DTW (FEET) | | WATER APPEARANCE / ODOR: | | | | | | | | |
| SAMPLE TIME | | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
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| INSTRUMENTS USED | | GEOTECH INTERFACE PROBE | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|-------------------------|------------|--------------------------|----------------------|----|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTF-12 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 11.1.16 | Initial | | | | | | | | |
| GAUGE TIME | 1127 | 1 | | | | | | | | |
| DHC (FEET) | 19.33 | 2 | | | | | | | | |
| DTW (FEET) | 19.62 | 3 | | | | | | | | |
| DTB (FEET) | 25.62 | 4 | | | | | | | | |
| DTB - DTW | NA | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | | WEATHER CONDITIONS: | | | | | | | | |
| PURGE DATE | | WATER APPEARANCE / ODOR: | | | | | | | | |
| END OF PURGE TIME | | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | | | | | | | | | | |
| DTW (FEET) | | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | | WEATHER CONDITIONS: | | | | | | | | |
| DTW (FEET) | | WATER APPEARANCE / ODOR: | | | | | | | | |
| SAMPLE TIME | | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| | | | | | | | | | | |
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| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE | | | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: [Signature]

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|---------------------------------------|------------|---|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-33 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 11.1.16 | Initial | 1038 | 7.10 | 13.2 | 1677 | — | — | 24.3 | 22.2 |
| GAUGE TIME | 1027 | 1 | 1039 | 7.21 | 12.9 | 1693 | — | — | 28.8 | 24.4 |
| DHC (FEET) | ND | 2 | 1041 | 7.20 | 12.9 | 1701 | — | — | 34.0 | 22.1 |
| DTW (FEET) | 22.95 | 3 | 1043 | 7.24 | 12.8 | 1744 | — | — | 30.7 | 22.8 |
| DTB (FEET) | 33.23 | 4 | 1045 | 7.28 | 12.7 | 1725 | — | — | 25.7 | 24.2 |
| DTB - DTW | 10.28 | 5 | 1047 | 7.26 | 12.7 | 1756 | — | — | 21.9 | 25.2 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1049 | 7.25 | 12.7 | 1761 | — | — | 24.7 | 27.7 |
| | 0.163 - 2" | | | | | | | | | |
| 1.68 PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 5.02 | WEATHER CONDITIONS: PARTLY CLOUDY, SW WIND, 64° | | | | | | | | |
| PURGE DATE | 11.1.16 | WATER APPEARANCE / ODOR: CLEAR → CLOUDY, PINK, NO ODOR | | | | | | | | |
| END OF PURGE TIME | 1049 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 5.25 | | | | | | | | | |
| DTW (FEET) | 28.25 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 11.1.16 | WEATHER CONDITIONS: PARTLY CLOUDY, SW WIND, 65° | | | | | | | | |
| DTW (FEET) | 23.00 | WATER APPEARANCE / ODOR: CLEAR, NO ODOR | | | | | | | | |
| SAMPLE TIME | 1305 | COMMENTS: COLLECTED FB110116 AT 1325 | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-33 | 1305 | 40 ML VOA | 5 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE, YSI PRO PLUS | | | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|---------------------------------------|------------|---|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTf-22 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 11.1.16 | Initial | 1000 | 6.52 | 13.7 | 1820 | — | — | 61.6 | 46.6 |
| GAUGE TIME | 0953 | 1 | 1003 | 6.90 | 13.0 | 1755 | — | — | 30.7 | -28.8 |
| DHC (FEET) | ND | 2 | 1005 | 7.03 | 12.6 | 1755 | — | — | 29.2 | -42.9 |
| DTW (FEET) | 26.05 | 3 | 1008 | 7.10 | 12.5 | 1801 | — | — | 21.3 | -45.0 |
| DTB (FEET) | 35.62 | 4 | 1011 | 7.08 | 12.6 | 1803 | — | — | 18.0 | -46.0 |
| DTB - DTW | 9.57 | 5 | 1013 | 7.06 | 12.8 | 1797 | — | — | 16.1 | -46.7 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | BAILED DRY AT 4 GALS | | | | | | | |
| 1.56 PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 4.68 | WEATHER CONDITIONS: PARTLY CLOUDY, SW WIND, 57° | | | | | | | | |
| PURGE DATE | 11.1.16 | WATER APPEARANCE / ODOR: CLEAR → CLOUDY-PINK, ODOR | | | | | | | | |
| END OF PURGE TIME | 1013 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 4 GALS | | | | | | | | | |
| DTW (FEET) | 35.01 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 11.1.16 | WEATHER CONDITIONS: PARTLY CLOUDY, SW WIND, 71° | | | | | | | | |
| DTW (FEET) | 26.10 | WATER APPEARANCE / ODOR: CLOUDY, ODOR | | | | | | | | |
| SAMPLE TIME | 1355 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTf-22 | 1355 | 40 ML VOA | 5 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE, YSI PRO PLUS | | | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: [Signature]

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|---------------------------------------|------------|--|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-38 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 11.1.16 | Initial | 1447 | 6.88 | 18.5 | 2075 | — | — | 13.6 | 100.7 |
| GAUGE TIME | 1442 | 1 | 1450 | 6.78 | 18.1 | 2120 | — | — | 11.7 | 72.9 |
| DHC (FEET) | ND | 2 | 1453 | 6.88 | 17.8 | 2137 | — | — | 17.8 | 59.9 |
| DTW (FEET) | 7.50 | 3 | 1455 | 6.93 | 17.8 | 2085 | — | — | 14.0 | 56.1 |
| DTB (FEET) | 20.30 | 4 | 1457 | 6.94 | 17.8 | 2062 | — | — | 14.0 | 53.6 |
| DTB - DTW | 12.80 | 5 | 1459 | 6.95 | 17.8 | 2028 | — | — | 16.0 | 51.1 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1501 | 6.95 | 17.7 | 2025 | — | — | 15.7 | 50.0 |
| | 0.163 - 2" | | | | | | | | | |
| 2.10 PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 6.25 | WEATHER CONDITIONS: PARTLY CLOUDY, SW WIND, 68° | | | | | | | | |
| PURGE DATE | 11.1.16 | WATER APPEARANCE / ODOR: CLEAR → CLOUDY, PINK, FAINT ODOR | | | | | | | | |
| END OF PURGE TIME | 1501 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 6.25 | | | | | | | | | |
| DTW (FEET) | 9.00 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 11.1.16 | WEATHER CONDITIONS: SAME AS ABOVE | | | | | | | | |
| DTW (FEET) | 9.00 | WATER APPEARANCE / ODOR: CLEAR, FAINT ODOR | | | | | | | | |
| SAMPLE TIME | 1515 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-38 | 1515 | 40 ML VOA | 5 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE, VSI PRO PLUS | | | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: [Signature]

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|---------------------------------------|------------|---|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-39 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 11.1.16 | Initial | 1603 | 6.63 | 19.2 | 5509 | — | — | 22.0 | -6.8 |
| GAUGE TIME | 15.56 | 1 | 1604 | 6.81 | 18.9 | 5643 | — | — | 19.8 | -42.2 |
| DHC (FEET) | ND | 2 | 1606 | 6.96 | 18.9 | 5680 | — | — | 20.9 | -56.5 |
| DTW (FEET) | 7.80 | 3 | 1607 | 6.93 | 18.9 | 5730 | — | — | 16.4 | -65.1 |
| DTB (FEET) | 15.20 | 4 | 1608 | 6.97 | 18.9 | 5737 | — | — | 12.7 | -70.7 |
| DTB - DTW | 7.40 | 5 | 1610 | 7.00 | 18.9 | 5725 | — | — | 13.0 | -75.1 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1612 | 7.01 | 18.9 | 5728 | — | — | 14.0 | -78.6 |
| | 0.163 - 2" | | | | | | | | | |
| 1.2 PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 3.6 | WEATHER CONDITIONS: PARTLY CLOUDY, SW WIND, 70° | | | | | | | | |
| PURGE DATE | 11.1.16 | WATER APPEARANCE / ODOR: CLEAR / ODOR → CLOUDY, GREY | | | | | | | | |
| END OF PURGE TIME | 1612 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 3.75 | | | | | | | | | |
| DTW (FEET) | 9.20 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 11.1.16 | WEATHER CONDITIONS: SAME AS ABOVE | | | | | | | | |
| DTW (FEET) | 9.20 | WATER APPEARANCE / ODOR: CLOUDY - GREY / ODOR | | | | | | | | |
| SAMPLE TIME | 1625 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-39 | 1625 | 40 ML VOA | 5 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE, YSI PRO PLUS | | | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|---------------------------------------|------------|--|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-11 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 11.2.16 | Initial | 0839 | 6.63 | 14.0 | 4078 | — | — | 88.2 | 7.6 |
| GAUGE TIME | 0833 | 1 | 0842 | 7.00 | 16.5 | 4292 | — | — | 19.1 | -72.8 |
| DHC (FEET) | ND | 2 | 0845 | 7.13 | 16.6 | 4620 | — | — | 18.7 | -94.3 |
| DTW (FEET) | 8.65 | 3 | 0848 | 7.19 | 16.5 | 4770 | — | — | 17.2 | -96.0 |
| DTB (FEET) | 18.33 | 4 | 0851 | 7.14 | 16.4 | 4987 | — | — | 20.2 | -91.6 |
| DTB - DTW | 9.68 | 5 | 0854 | 7.14 | 16.4 | 5009 | — | — | 18.5 | -86.7 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 0857 | 7.13 | 16.3 | 5175 | — | — | 20.0 | -82.4 |
| | 0.163 - 2" | | | | | | | | | |
| 7.16 PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 21.49 | WEATHER CONDITIONS: PARTLY CLOUDY, CALM, 36° | | | | | | | | |
| PURGE DATE | 11.2.16 | WATER APPEARANCE / ODOR: CLEAR → CLOUDY, GREY, ODOR | | | | | | | | |
| END OF PURGE TIME | 0857 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 22 | | | | | | | | | |
| DTW (FEET) | 14.55 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 11.2.16 | WEATHER CONDITIONS: CLOUDY, SOUTH WIND, 69° | | | | | | | | |
| DTW (FEET) | 8.80 | WATER APPEARANCE / ODOR: CLEAR, ODOR | | | | | | | | |
| SAMPLE TIME | 1440 | COMMENTS: COLLECTED DUPOT, COLLECTED FB110216@ 1500 | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-11 | 1440 | 40 ML VOA | 5 | | | | HCL | | | |
| | | 1 L AMBER | 2 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE, YSI PRO PLUS | | | | | | | | | | |


COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|---------------------------------------|------------|--|------------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-04 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 11.2.16 | Initial | 0748 | 7.05 | 13.7 | 2176 | — | — | 71.4 | -33.6 |
| GAUGE TIME | 0740 | 1 | 0752 | 6.96 | 14.9 | 2325 | — | — | 26.2 | -68.5 |
| DHC (FEET) | ND | 2 | 0755 | 7.02 | 14.9 | 2386 | — | — | 30.0 | -77.6 |
| DTW (FEET) | 10.40 | 3 | 0759 | 7.09 | 14.7 | 2240 | — | — | 21.7 | -85.1 |
| DTB (FEET) | 22.20 | 4 | BAILED DRY @ 14.5 GALS | | | | | | | |
| DTB - DTW | 11.80 | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| 8.13 PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 26.20 | WEATHER CONDITIONS: CLEAR, CALM, 40° | | | | | | | | |
| PURGE DATE | 11.2.16 | WATER APPEARANCE / ODOR: CLEAR - ODOR - SHEEN | | | | | | | | |
| END OF PURGE TIME | 0805 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 14.5 | | | | | | | | | |
| DTW (FEET) | 21.80 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 11.2.16 | WEATHER CONDITIONS: CLOUDY, SOUTH WIND, 64° | | | | | | | | |
| DTW (FEET) | 10.55 | WATER APPEARANCE / ODOR: CLEAR, ODOR | | | | | | | | |
| SAMPLE TIME | 1535 | COMMENTS: HC ON OUTSIDE OF BAILER | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-04 | 1535 | 40 ML VOA | 5 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| ✓ | ✓ | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE, YSI PRO PLUS | | | | | | | | | | |


COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|---------------------------------------|------------|--|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-10 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 11.2.16 | Initial | 0932 | 6.55 | 16.2 | 2452 | — | — | 27.8 | -40.9 |
| GAUGE TIME | 0926 | 1 | 0935 | 6.86 | 16.7 | 2469 | — | — | 21.2 | -86.6 |
| DHC (FEET) | ND | 2 | DRY @ 6 GALLONS | | | | | | | |
| DTW (FEET) | 8.25 | 3 | | | | | | | | |
| DTB (FEET) | 16.08 | 4 | | | | | | | | |
| DTB - DTW | 7.83 | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| 5.79 PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 17.38 | WEATHER CONDITIONS: CLEAR, CALM, 49° | | | | | | | | |
| PURGE DATE | 11.2.16 | WATER APPEARANCE / ODOR: CLEAR → CLOUDY - PINKISH BROWN, ODOR | | | | | | | | |
| END OF PURGE TIME | 0938 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 6 | | | | | | | | | |
| DTW (FEET) | 15.85 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 11.2.16 | WEATHER CONDITIONS: CLOUDY, EAST WIND 62° | | | | | | | | |
| DTW (FEET) | 9.30 | WATER APPEARANCE / ODOR: CLEAR, ODOR | | | | | | | | |
| SAMPLE TIME | 1620 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-10 | 1620 | 40 ML VOA | 5 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| ↓ | ↓ | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE, YSI PRO PLUS | | | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|---------------------------------------|------------|--|-------------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-09 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 11.2.16 | Initial | 1007 | 6.81 | 14.6 | 1774 | — | — | 24.4 | -8.5 |
| GAUGE TIME | 1002 | 1 | 1010 | 6.96 | 14.8 | 1817 | — | — | 17.0 | -36.7 |
| DHC (FEET) | ND | 2 | 1013 | 7.06 | 14.6 | 1865 | — | — | 17.5 | -55.8 |
| DTW (FEET) | 14.10 | 3 | 1016 | 7.04 | 14.6 | 1864 | — | — | 18.5 | -67.7 |
| DTB (FEET) | 22.75 | 4 | 1019 | 7.06 | 14.6 | 1855 | — | — | 16.3 | -74.1 |
| DTB - DTW | 8.65 | 5 | 1022 | 7.07 | 14.6 | 1821 | — | — | 19.1 | -77.5 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | BAILED DOWN @ 16.5 GALS | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| 6.408 PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 19.20 | WEATHER CONDITIONS: CLEAR, CALM, 58° | | | | | | | | |
| PURGE DATE | 11.2.16 | WATER APPEARANCE / ODOR: CLEAR, ODOR, SHEEN | | | | | | | | |
| END OF PURGE TIME | 1022 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 16.5 | | | | | | | | | |
| DTW (FEET) | 21.22 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 11.2.16 | WEATHER CONDITIONS: CLOUDY, EAST WIND | | | | | | | | |
| DTW (FEET) | 1412 | WATER APPEARANCE / ODOR: CLEAR, ODOR | | | | | | | | |
| SAMPLE TIME | 1655 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-09 | 1655 | 40 ML VOA | 5 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| ✓ | ✓ | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE, YSI PRO PLUS | | | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|---------------------------------------|------------|---|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-15 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 11.2.16 | Initial | 11:01 | 6.45 | 17.1 | 10838 | — | — | 16.8 | -19.1 |
| GAUGE TIME | 1056 | 1 | 11:03 | 6.60 | 17.1 | 11142 | — | — | 24.2 | -51.1 |
| DHC (FEET) | ND | 2 | 11:05 | 6.65 | 17.1 | 11184 | — | — | 13.2 | -67.5 |
| DTW (FEET) | 12.90 | 3 | 11:07 | 6.66 | 17.1 | 11179 | — | — | 13.6 | -70.9 |
| DTB (FEET) | 19.50 | 4 | 11:09 | 6.70 | 17.1 | 11187 | — | — | 16.4 | -74.4 |
| DTB - DTW | 6.60 | 5 | 11:11 | 6.75 | 17.0 | 11182 | — | — | 15.0 | -76.4 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 11:13 | 6.76 | 17.0 | 11167 | — | — | 17.3 | -79.7 |
| | 0.163 - 2" | | | | | | | | | |
| 1.08 PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 3.24 | WEATHER CONDITIONS: CLEAR, CALM | | | | | | | | |
| PURGE DATE | 11.2.16 | WATER APPEARANCE / ODOR: CLEAR → CLOUDY GREY, ODOR | | | | | | | | |
| END OF PURGE TIME | 1113 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 3.5 | | | | | | | | | |
| DTW (FEET) | 14.00 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 11.2.16 | WEATHER CONDITIONS: CLOUDY, EAST WIND | | | | | | | | |
| DTW (FEET) | 13.00 | WATER APPEARANCE / ODOR: CLEAR, ODOR, SHEEN | | | | | | | | |
| SAMPLE TIME | 1715 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-15 | 1715 | 40 ML VOA | 5 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| ✓ | ✓ | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE, YSI PRO PLUS | | | | | | | | | | |

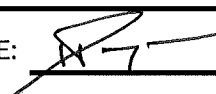
COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|--|------------|---|----------------------|---------------------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-21 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 11.2.16 | Initial | 1316 | 6.70 8.7 | 20.5 | 1649 | — | — | 11.3 | -52.7 |
| GAUGE TIME | 1311 | 1 | 1318 | 6.71 | 20.2 | 1590 | — | — | 14.4 | -71.4 |
| DHC (FEET) | ND | 2 | 1320 | 6.77 | 19.9 | 1606 | — | — | 20.5 | -81.9 |
| DTW (FEET) | 6.30 | 3 | | BAILED DRY @ 2 GALS | | | | | | |
| DTB (FEET) | 8.79 | 4 | | | | | | | | |
| DTB - DTW | 2.49 | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| 1.84 | | PURGING DATA | | | | | | | | |
| 3 WELL VOLUMES | 5.52 | WEATHER CONDITIONS: PARTLY CLOUDY, SOUTH WIND, 75° | | | | | | | | |
| PURGE DATE | 11.2.16 | WATER APPEARANCE / ODOR: CLEAR, GRAY, ODOR | | | | | | | | |
| END OF PURGE TIME | 1320 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 2 | | | | | | | | | |
| DTW (FEET) | 8.51 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 11.3.16 | WEATHER CONDITIONS: CLOUDY, CALM, 50° | | | | | | | | |
| DTW (FEET) | 6.97 | WATER APPEARANCE / ODOR: GRAY, ODOR | | | | | | | | |
| SAMPLE TIME | 0805 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-21 | 0805 | 40ML VOA | 5 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| ✓ | ✓ | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED GEOTECH INTERFACE PROBE, YSI PRO PLUS | | | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|---------------------------------------|------------|---|--------------------------|------|--------------------------|----------------------|--------------|----------------|-------------------------|----------|
| MKTF-20 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 11.2.16 | Initial | 1250 | 6.50 | 21.7 | 5048 | — | — | 38.7 | -53.4 |
| GAUGE TIME | 1245 | 1 | 1251 | 6.63 | 21.8 | 5078 | — | — | 16.0 | -82.3 |
| DHC (FEET) | ND | 2 | 1253 | 6.63 | 21.8 | 5115 | — | — | 13.5 | -92.0 |
| DTW (FEET) | 7.10 | 3 | BAILED DRY @ 2.5 GALLONS | | | | | | | |
| DTB (FEET) | 9.55 | 4 | | | | | | | | |
| DTB - DTW | 2.45 | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| 1.81 PURGING DATA | | | | | | | | | | |
| 3 WELL VOLUMES | 5.43 | WEATHER CONDITIONS: CLEAR, SOUTH WIND, 75° | | | | | | | | |
| PURGE DATE | 11.2.16 | WATER APPEARANCE / ODOR: CLEAR, GREY, ODOR, SHEEN | | | | | | | | |
| END OF PURGE TIME | 1255 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 2.5 | | | | | | | | | |
| DTW (FEET) | 9.27 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 11.3.16 | WEATHER CONDITIONS: CLOUDY, SOUTH WIND, 49° | | | | | | | | |
| DTW (FEET) | 7.15 | WATER APPEARANCE / ODOR: | | | | | | | | |
| SAMPLE TIME | 0900 | COMMENTS: COLLECTED DUPOS; COLLECTED FB110316 @ 0935 | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-20 | 0900 | 40 ML VOA | 5 | | | | HCL | | | |
| | | 1 L AMBER | 2 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO3 | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO3 | | | |
| | | 125 ML PLASTIC | 1 | | | | H2SO4 | | | |
| ✓ | ✓ | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE, VSI PRO PLUS | | | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: 

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|----------------------|------------|-----------------|------------------------|------|--------------------------|----------------------|-----------|----------------|-------------------------|----------|
| MKTf-16 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 11.2.16 | Initial | 1222 | 6.80 | 21.1 | 2664 | — | — | 42.4 | -37.8 |
| GAUGE TIME | 1217 | 1 | 1224 | 6.96 | 21.3 | 2551 | — | — | 26.9 | -80.9 |
| DHC (FEET) | ND | 2 | 1225 | 7.03 | 21.3 | 2665 | — | — | 24.3 | -87.0 |
| DTW (FEET) | 9.28 | 3 | 1227 | 7.05 | 21.3 | 2713 | — | — | 18.5 | -89.4 |
| DTB (FEET) | 14.04 | 4 | 1229 | 7.07 | 21.2 | 2922 | — | — | 17.0 | -89.2 |
| DTB - DTW | 4.76 | 5 | BAILED DRY @ 2.25 GALS | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |

0.78

PURGING DATA

| | | |
|----------------------|-----------|---|
| 3 WELL VOLUMES | 2.32 | WEATHER CONDITIONS: CLEAR, SOUTH WIND, 66° |
| PURGE DATE | 11.2.16 | WATER APPEARANCE / ODOR: CLEAR / ODOR |
| END OF PURGE TIME | 1230 | COMMENTS: |
| PURGE AMOUNT | 2.25 GALS | |
| DTW (FEET) | 13.80 | |

SAMPLING DATA

| | | |
|-------------|---------|--|
| SAMPLE DATE | 11.3.16 | WEATHER CONDITIONS: 3 CLEAR, SOUTH WIND, 52° |
| DTW (FEET) | 12.60 | WATER APPEARANCE / ODOR: |
| SAMPLE TIME | 1010 | COMMENTS: LOW YIELD - DID NOT COLLECT 500ML PLASTIC |

SAMPLE LOG

| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | PRESERVATIVE |
|-----------|------|-----------------------------------|----------------------|--------------------------------|
| MKTf-16 | 1010 | 40 ML VOA | 5 | HCL |
| | | 1 L AMBER | 1 | NEAT |
| | | 250 ML AMBER | 1 | NEAT |
| | | 500 ML PLASTIC | 1 | HNO ₃ |
| | | 125 ML PLASTIC | 1 | HNO ₃ |
| | | 125 ML PLASTIC | 1 | H ₂ SO ₄ |
| | | ** 500 ML PLASTIC (NOT COLLECTED) | | |

INSTRUMENTS USED

GEOTECH INTERFACE PROBE, YSI PRO PLUS

COMPLETED BY: TRACY FAYNE

SIGNATURE: [Signature]

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|---------------------------------------|------------|---|----------------------|------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTf-35 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 11.3.16 | Initial | 1457 | 6.83 | 18.7 | 1347 | — | — | 45.3 | -31.3 |
| GAUGE TIME | 1450 | 1 | 1459 | 7.03 | 18.6 | 1371 | — | — | 24.4 | -81.2 |
| DHC (FEET) | ND | 2 | 1501 | 7.07 | 18.6 | 1388 | — | — | 15.0 | -92.9 |
| DTW (FEET) | 6.00 | 3 | 1503 | 7.09 | 18.6 | 1393 | — | — | 17.2 | -97.2 |
| DTB (FEET) | 16.48 | 4 | 1505 | 7.10 | 18.5 | 1397 | — | — | 16.9 | -99.6 |
| DTB - DTW | 10.48 | 5 | 1507 | 7.10 | 18.5 | 1402 | — | — | 16.0 | -100.2 |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | 1509 | 7.11 | 18.5 | 1401 | — | — | 14.5 | -102.3 |
| | 0.163 - 2" | | | | | | | | | |
| 1.70 | | PURGING DATA | | | | | | | | |
| 3 WELL VOLUMES | 5.1 | WEATHER CONDITIONS: CLEAR, STRONG SOUTH WIND, 70° | | | | | | | | |
| PURGE DATE | 11.3.13 | WATER APPEARANCE / ODOR: CLEAR, ODOR → CLOUDY GREY | | | | | | | | |
| END OF PURGE TIME | 1509 | COMMENTS: | | | | | | | | |
| PURGE AMOUNT | 5.25 | | | | | | | | | |
| DTW (FEET) | 6.60 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 11.3.13 | WEATHER CONDITIONS: SAME AS ABOVE | | | | | | | | |
| DTW (FEET) | 6.40 | WATER APPEARANCE / ODOR: SAME AS ABOVE | | | | | | | | |
| SAMPLE TIME | 1525 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTf-35 | 1535 | 40 ML VOA | 5 + 3 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE, YSI PRO PLUS | | | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: [Signature]

WESTERN REFINING - GALLUP REFINERY
FOURTH QUARTER 2016

| WELL ID | | TEST PARAMETERS | | | | | | | | |
|---------------------------------------|------------|--|----------------------|-----------------|--------------------------|----------------------|--------------------------------|----------------|-------------------------|----------|
| MKTF-37 | | Volumes | TIME | pH | Temperature Degrees C | Conductivity (mS) | TDS (g/L) | Salinity (ppt) | Dissolved Oxygen (%) | ORP (mv) |
| GAUGE DATE | 11.3.16 | Initial | | | | | | | | |
| GAUGE TIME | 1600 | 1 | | DID NOT COLLECT | | | | | | |
| DHC (FEET) | ND | 2 | | WQ PARAMETERS | | | | | | |
| DTW (FEET) | 7.09 | 3 | | HC IN WATER | | | | | | |
| DTB (FEET) | 24.80 | 4 | | | | | | | | |
| DTB - DTW | 17.71 | 5 | | | | | | | | |
| CAPACITY PER FOOT | 0.74 - 4" | 6 | | | | | | | | |
| | 0.163 - 2" | | | | | | | | | |
| 2.89 | | PURGING DATA | | | | | | | | |
| 3 WELL VOLUMES | 8.67 | WEATHER CONDITIONS: CLOUDY SOUTH WIND, 65° | | | | | | | | |
| PURGE DATE | 11.3.16 | WATER APPEARANCE / ODOR: CLEAR → GREY → BLACK, ODOR, HEAVY SHEEN TO | | | | | | | | |
| END OF PURGE TIME | 1620 | COMMENTS: HC GOBBLES IN | | | | | | | | |
| PURGE AMOUNT | 9 | PURGED WATER | | | | | | | | |
| DTW (FEET) | 23.10 | | | | | | | | | |
| SAMPLING DATA | | | | | | | | | | |
| SAMPLE DATE | 11.3.16 | WEATHER CONDITIONS: SAME AS ABOVE | | | | | | | | |
| DTW (FEET) | 18.40 | WATER APPEARANCE / ODOR: CLEAR, ODOR | | | | | | | | |
| SAMPLE TIME | 1645 | COMMENTS: | | | | | | | | |
| SAMPLE LOG | | | | | | | | | | |
| SAMPLE ID | TIME | CONTAINER TYPE | NUMBER OF CONTAINERS | | | | PRESERVATIVE | | | |
| MKTF-37 | 1645 | 40 ML VOA | 5+3 | | | | HCL | | | |
| | | 1 L AMBER | 1 | | | | NEAT | | | |
| | | 250 ML AMBER | 1 | | | | NEAT | | | |
| | | 500 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | HNO ₃ | | | |
| | | 125 ML PLASTIC | 1 | | | | H ₂ SO ₄ | | | |
| | | 500 ML PLASTIC | 1 | | | | NEAT | | | |
| INSTRUMENTS USED | | | | | | | | | | |
| GEOTECH INTERFACE PROBE, YSI PRO PLUS | | | | | | | | | | |

COMPLETED BY: TRACY PAYNE

SIGNATURE: 