



Directional Survey Certification

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|-----------------------------|--|----------------------------|-------------------|----------------------|----------------|
| Survey Company: | Native Navigation | Survey Company Job #: | 12030514 | | |
| Well Name: | McCOY 23-33 | A.P.I.#: | 05-123-35231 | Operator: | MAK-J |
| Latitude: | 40.266840° N | Longitude: | 105.016910° W | County, State: | Weld Co, CO |
| Legal Description (S,TS,R): | NW 1/4 SW 1/4 SEC 33 T4N R68W 1645' FSL 219' FWL | | | | |
| Final Report | 4/12/2012 | Date of First Survey: | 4/2/2012 | Date of Last Survey: | 4/8/2012 |
| Datum: | NAD 83 | Survey MD From: | 127 FT. | To: | 7905 FT. |
| | | Tool Type: | MWD | | |
| Bit to Sensor: | 56 FT. | Rig (Company & Number): | Fort Drilling # 5 | RKB Height: | 12 FT. |
| Ground Elevation: | 5054 FT. | Northings: | 1340418.49 FT. | Eastings: | 3134809.17 FT. |
| Surveyor: | Baca | Depth of Final Projection: | 7961 FT. | | |

The data and calculations for this survey have been checked by me and conform to the calibration standards and operational procedures set forth by Native Navigation. I am authorized and qualified to review the data, calculations and this report, and that the report represents a true and correct Directional Survey of this well, based on the original data corrected to True North and obtained at the well site. Wellbore coordinates are calculated using the minimum curvature method.

Frank Watcott
Signature

Well Planner
Title

Native Navigation
Company

6/6/12
Date

| | |
|----------------------------|-------------------|
| Well Name: | McCOY 23-33 |
| Operator: | MAK-J |
| A.P.I.#: | 05-123-35231 |
| Rig (Company & Number): | Fort Drilling #5 |
| Directional Company: | Native Navigation |
| Directional Company Job #: | 12030514 |
| Survey Company: | Native Navigation |
| Survey Company Job #: | 12030514 |

| | |
|-------------------|----------------|
| Ground Elevation: | 5054 FT. |
| RKB Height: | 12 FT. |
| Latitude: | 40.266840° N |
| Longitude: | 105.016910° W |
| Northings(ft): | 1340418.49 FT. |
| Eastings(ft): | 3134809.17 FT. |
| Datum (S,Ts,R): | NAD 83 |

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|-----------------------------|-----------|
| Final Report Date: | 4/12/2012 |
| Date of First Survey: | 4/2/2012 |
| Date of Last Survey: | 4/8/2012 |
| MD of First Survey: | 127 FT. |
| MD of Last Survey: | 7905 FT. |
| Depth of Final Projection: | 7961 FT. |
| Survey Tool Used: | MWD |
| Bit to Sensor Distance(ft): | 56 FT. |

| No. | MD | CL | Inc. | Azi. | TVD | VS | +N/S- | +E/W- | BR | WR | DLS | Comments |
|-----|---------|--------|-------|--------|---------|---------|--------|---------|-------|---------|------|----------------------|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | Surface |
| 2 | 127.00 | 127.00 | 0.48 | 312.55 | 127.00 | -0.31 | 0.36 | -0.39 | 0.38 | -37.36 | 0.38 | Native Navigation EM |
| 3 | 189.00 | 62.00 | 0.79 | 341.12 | 189.99 | -0.52 | 0.94 | -0.72 | 0.50 | 46.08 | 0.70 | Native Navigation EM |
| 4 | 281.00 | 92.00 | 1.27 | 338.22 | 280.98 | -0.77 | 2.49 | -1.31 | 0.52 | -3.15 | 0.52 | Native Navigation EM |
| 5 | 372.00 | 91.00 | 0.57 | 325.65 | 371.97 | -1.12 | 3.80 | -1.93 | -0.77 | -13.81 | 0.80 | Native Navigation EM |
| 6 | 464.00 | 92.00 | 0.79 | 217.19 | 463.96 | -1.78 | 3.67 | -2.58 | 0.24 | -117.89 | 1.21 | Native Navigation EM |
| 7 | 556.00 | 92.00 | 0.83 | 158.83 | 555.96 | -2.14 | 2.54 | -2.72 | 0.04 | -63.43 | 0.86 | Native Navigation EM |
| 8 | 666.00 | 110.00 | 1.01 | 167.97 | 665.94 | -2.01 | 0.85 | -2.23 | 0.16 | 8.31 | 0.21 | TD Surface |
| 9 | 745.00 | 79.00 | 1.01 | 169.03 | 744.93 | -2.02 | -0.51 | -1.95 | 0.00 | 1.34 | 0.02 | Native Navigation EM |
| 10 | 840.00 | 95.00 | 2.81 | 106.36 | 839.88 | 0.03 | -1.99 | 0.44 | 1.89 | -65.97 | 2.64 | Native Navigation EM |
| 11 | 935.00 | 95.00 | 5.27 | 80.87 | 934.64 | 6.44 | -1.95 | 6.99 | 2.59 | -26.83 | 3.15 | Native Navigation EM |
| 12 | 1030.00 | 95.00 | 7.60 | 75.77 | 1029.04 | 17.08 | 0.28 | 17.38 | 2.45 | -5.37 | 2.52 | Native Navigation EM |
| 13 | 1125.00 | 95.00 | 8.96 | 67.69 | 1123.05 | 30.63 | 4.64 | 30.32 | 1.43 | -8.51 | 1.88 | Native Navigation EM |
| 14 | 1220.00 | 95.00 | 9.80 | 67.95 | 1216.78 | 45.86 | 10.48 | 44.66 | 0.88 | 0.27 | 0.89 | Native Navigation EM |
| 15 | 1314.00 | 94.00 | 12.48 | 68.57 | 1309.00 | 63.74 | 17.19 | 61.53 | 2.85 | 0.66 | 2.85 | Native Navigation EM |
| 16 | 1409.00 | 95.00 | 14.68 | 77.62 | 1401.35 | 85.90 | 23.53 | 82.85 | 2.32 | 9.53 | 3.21 | Native Navigation EM |
| 17 | 1504.00 | 95.00 | 15.12 | 82.02 | 1493.16 | 110.30 | 27.83 | 106.88 | 0.46 | 4.63 | 1.28 | Native Navigation EM |
| 18 | 1598.00 | 94.00 | 15.29 | 81.84 | 1583.87 | 134.91 | 31.29 | 131.29 | 0.18 | -0.19 | 0.19 | Native Navigation EM |
| 19 | 1692.00 | 94.00 | 16.04 | 82.19 | 1674.37 | 160.23 | 34.81 | 156.42 | 0.80 | 0.37 | 0.80 | Native Navigation EM |
| 20 | 1786.00 | 94.00 | 18.68 | 80.78 | 1764.08 | 188.23 | 38.99 | 184.15 | 2.81 | -1.50 | 2.84 | Native Navigation EM |
| 21 | 1881.00 | 95.00 | 22.85 | 76.83 | 1852.90 | 221.89 | 45.63 | 217.14 | 4.39 | -4.16 | 4.63 | Native Navigation EM |
| 22 | 1975.00 | 94.00 | 22.76 | 77.44 | 1939.55 | 258.31 | 53.75 | 252.66 | -0.10 | 0.65 | 0.27 | Native Navigation EM |
| 23 | 2068.00 | 93.00 | 23.82 | 78.59 | 2024.97 | 295.08 | 61.37 | 288.63 | 1.14 | 1.24 | 1.24 | Native Navigation EM |
| 24 | 2163.00 | 95.00 | 24.82 | 77.09 | 2111.54 | 334.20 | 69.62 | 326.87 | 1.05 | -1.58 | 1.24 | Native Navigation EM |
| 25 | 2258.00 | 95.00 | 26.94 | 79.73 | 2197.01 | 375.66 | 77.92 | 367.49 | 2.23 | 2.78 | 2.54 | Native Navigation EM |
| 26 | 2353.00 | 95.00 | 27.86 | 79.55 | 2281.35 | 419.36 | 85.78 | 410.49 | 0.97 | -0.19 | 0.97 | Native Navigation EM |
| 27 | 2447.00 | 94.00 | 28.08 | 77.88 | 2364.37 | 463.44 | 94.41 | 453.72 | 0.23 | -1.78 | 0.87 | Native Navigation EM |
| 28 | 2542.00 | 95.00 | 29.22 | 75.86 | 2447.74 | 508.97 | 104.77 | 498.07 | 1.20 | -2.13 | 1.57 | Native Navigation EM |
| 29 | 2636.00 | 94.00 | 29.18 | 76.48 | 2529.80 | 554.80 | 115.73 | 542.60 | -0.04 | 0.66 | 0.32 | Native Navigation EM |
| 30 | 2731.00 | 95.00 | 26.85 | 75.34 | 2613.66 | 599.38 | 126.58 | 585.88 | -2.45 | -1.20 | 2.52 | Native Navigation EM |
| 31 | 2826.00 | 95.00 | 26.54 | 77.09 | 2698.54 | 642.03 | 136.75 | 627.32 | -0.33 | 1.84 | 0.89 | Native Navigation EM |
| 32 | 2920.00 | 94.00 | 26.37 | 80.61 | 2782.70 | 683.88 | 144.85 | 668.39 | -0.18 | 3.74 | 1.68 | Native Navigation EM |
| 33 | 3014.00 | 94.00 | 26.81 | 84.92 | 2866.76 | 725.80 | 150.13 | 710.11 | 0.47 | 4.59 | 2.10 | Native Navigation EM |
| 34 | 3108.00 | 94.00 | 25.93 | 82.02 | 2950.99 | 767.37 | 154.86 | 751.58 | -0.94 | -3.09 | 1.66 | Native Navigation EM |
| 35 | 3202.00 | 94.00 | 26.94 | 82.45 | 3035.16 | 809.11 | 160.51 | 793.04 | 1.07 | 0.46 | 1.09 | Native Navigation EM |
| 36 | 3297.00 | 95.00 | 24.48 | 82.02 | 3120.74 | 850.22 | 166.07 | 833.87 | -2.59 | -0.45 | 2.60 | Native Navigation EM |
| 37 | 3392.00 | 95.00 | 22.85 | 81.93 | 3207.75 | 888.27 | 171.39 | 871.63 | -1.72 | -0.09 | 1.72 | Native Navigation EM |
| 38 | 3487.00 | 95.00 | 22.81 | 79.91 | 3295.31 | 925.08 | 177.21 | 908.02 | -0.04 | -2.13 | 0.83 | Native Navigation EM |
| 39 | 3581.00 | 94.00 | 23.33 | 75.51 | 3381.80 | 961.89 | 185.06 | 943.99 | 0.55 | -4.68 | 1.92 | Native Navigation EM |
| 40 | 3676.00 | 95.00 | 24.61 | 76.48 | 3468.61 | 1000.46 | 194.39 | 981.44 | 1.35 | 1.02 | 1.41 | Native Navigation EM |
| 41 | 3771.00 | 95.00 | 25.66 | 77.71 | 3554.61 | 1040.80 | 203.39 | 1020.77 | 1.11 | 1.29 | 1.23 | Native Navigation EM |
| 42 | 3866.00 | 95.00 | 27.55 | 76.74 | 3639.55 | 1083.33 | 212.81 | 1062.25 | 1.99 | -1.02 | 2.04 | Native Navigation EM |
| 43 | 3960.00 | 94.00 | 29.40 | 74.98 | 3722.17 | 1128.10 | 223.78 | 1105.70 | 1.97 | -1.87 | 2.16 | Native Navigation EM |
| 44 | 4055.00 | 95.00 | 30.84 | 75.07 | 3804.34 | 1175.70 | 236.10 | 1151.75 | 1.52 | 0.09 | 1.52 | Native Navigation EM |
| 45 | 4149.00 | 94.00 | 29.71 | 76.13 | 3885.52 | 1223.03 | 247.89 | 1197.65 | -1.20 | 1.13 | 1.33 | Native Navigation EM |
| 46 | 4244.00 | 95.00 | 26.28 | 79.91 | 3969.40 | 1267.60 | 257.22 | 1241.23 | -3.61 | 3.98 | 4.06 | Native Navigation EM |
| 47 | 4338.00 | 94.00 | 24.60 | 83.24 | 4054.29 | 1307.90 | 263.17 | 1281.15 | -1.79 | 3.54 | 2.35 | Native Navigation EM |
| 48 | 4433.00 | 95.00 | 23.55 | 83.60 | 4141.02 | 1346.49 | 267.61 | 1319.65 | -1.11 | 0.38 | 1.12 | Native Navigation EM |
| 49 | 4526.00 | 93.00 | 24.34 | 81.83 | 4226.02 | 1384.12 | 272.41 | 1357.08 | 0.85 | -1.90 | 1.15 | Native Navigation EM |
| 50 | 4619.00 | 93.00 | 24.30 | 79.55 | 4310.77 | 1422.38 | 278.60 | 1394.87 | -0.04 | -2.45 | 1.01 | Native Navigation EM |
| 51 | 4713.00 | 94.00 | 22.94 | 80.26 | 4396.89 | 1460.02 | 285.21 | 1431.95 | -1.45 | 0.76 | 1.48 | Native Navigation EM |
| 52 | 4808.00 | 95.00 | 21.23 | 80.70 | 4484.92 | 1495.71 | 291.12 | 1467.17 | -1.80 | 0.46 | 1.81 | Native Navigation EM |
| 53 | 4902.00 | 94.00 | 21.53 | 80.08 | 4572.45 | 1529.96 | 296.84 | 1500.96 | 0.32 | -0.66 | 0.40 | Native Navigation EM |
| 54 | 4997.00 | 95.00 | 21.62 | 81.40 | 4660.79 | 1564.85 | 302.46 | 1535.44 | 0.09 | 1.39 | 0.52 | Native Navigation EM |
| 55 | 5091.00 | 94.00 | 20.97 | 81.05 | 4748.38 | 1598.95 | 307.67 | 1569.17 | -0.69 | -0.37 | 0.70 | Native Navigation EM |
| 56 | 5186.00 | 95.00 | 19.07 | 80.87 | 4837.63 | 1631.43 | 312.78 | 1601.29 | -2.00 | -0.19 | 2.00 | Native Navigation EM |
| 57 | 5279.00 | 93.00 | 16.66 | 78.50 | 4926.14 | 1659.94 | 317.85 | 1629.36 | -2.59 | -2.55 | 2.71 | Native Navigation EM |
| 58 | 5375.00 | 96.00 | 15.64 | 73.75 | 5018.36 | 1686.61 | 324.21 | 1655.27 | -1.06 | -4.95 | 1.74 | Native Navigation EM |
| 59 | 5470.00 | 95.00 | 13.54 | 72.08 | 5110.29 | 1710.43 | 331.22 | 1678.15 | -2.21 | -1.76 | 2.25 | Native Navigation EM |
| 60 | 5565.00 | 95.00 | 12.30 | 69.36 | 5202.88 | 1731.49 | 338.21 | 1698.20 | -1.31 | -2.86 | 1.45 | Native Navigation EM |
| 61 | 5658.00 | 93.00 | 10.77 | 68.57 | 5294.00 | 1749.84 | 344.87 | 1715.56 | -1.65 | -0.85 | 1.65 | Native Navigation EM |
| 62 | 5753.00 | 95.00 | 8.92 | 67.34 | 5387.60 | 1765.83 | 350.96 | 1730.62 | -1.95 | -1.29 | 1.96 | Native Navigation EM |
| 63 | 5848.00 | 95.00 | 7.12 | 69.97 | 5481.66 | 1778.88 | 355.81 | 1742.95 | -1.89 | 2.77 | 1.93 | Native Navigation EM |
| 64 | 5942.00 | 94.00 | 5.32 | 73.75 | 5575.11 | 1788.99 | 359.02 | 1752.61 | -1.92 | 4.02 | 1.96 | Native Navigation EM |
| 65 | 6035.00 | 93.00 | 4.83 | 67.16 | 5667.74 | 1797.14 | 361.75 | 1760.36 | -0.53 | -7.09 | 0.82 | Native Navigation EM |
| 66 | 6130.00 | 95.00 | 3.74 | 67.60 | 5762.48 | 1804.11 | 364.48 | 1766.91 | -1.15 | 0.46 | 1.15 | Native Navigation EM |
| 67 | 6225.00 | 95.00 | 2.29 | 78.59 | 5857.34 | 1809.05 | 366.04 | 1771.63 | -1.53 | 11.57 | 1.64 | Native Navigation EM |
| 68 | 6319.00 | 94.00 | 1.14 | 59.43 | 5951.30 | 1811.81 | 366.89 | 1774.28 | -1.22 | -20.38 | 1.35 | Native Navigation EM |
| 69 | 6413.00 | 94.00 | 1.09 | 80.80 | 6045.28 | 1813.59 | 367.51 | 1775.96 | -0.05 | 22.52 | 0.44 | Native Navigation EM |
| 70 | 6507.00 | 94.00 | 0.53 | 65.76 | 6139.27 | 1814.91 | 367.83 | 1777.24 | -0.60 | -15.79 | 0.63 | Native Navigation EM |
| 71 | 6601.00 | 94.00 | 0.40 | 291.45 | 6233.27 | 1815.06 | 368.13 | 1777.33 | -0.14 | -142.88 | 0.91 | Native Navigation EM |
| 72 | 6697.00 | 96.00 | 0.57 | 311.23 | 6329.27 | 1814.49 | 368.57 | 1776.66 | 0.18 | 20.60 | 0.25 | Native Navigation EM |
| 73 | 6791.00 | 94.00 | 1.45 | 278.89 | 6423.25 | 1813.10 | 369.06 | 1775.14 | 0.94 | -34.40 | 1.08 | Native Navigation EM |
| 74 | 6885.00 | 94.00 | 0.83 | 260.61 | 6517.23 | 1811.30 | 369.13 | 1773.29 | -0.66 | -19.45 | 0.76 | Native Navigation EM |
| 75 | 6980.00 | 95.00 | 1.19 | 283.54 | 6612.22 | 1809.72 | 369.25 | 1771.65 | 0.38 | 24.14 | 0.56 | Native Navigation EM |
| 76 | 7074.00 | 94.00 | 0.92 | 253.40 | 6706.20 | 1808.09 | 369.27 | 1769.98 | -0.29 | -32.06 | 0.65 | Native Navigation EM |
| 77 | 7169.00 | 95.00 | 0.18 | 199.35 | 6801.20 | 1807.25 | 368.91 | 1769.20 | -0.78 | -56.89 | 0.87 | Native Navigation EM |
| 78 | 7263.00 | 94.00 | 0.26 | 207.61 | 6895.20 | 1807.04 | 368.58 | 1769.05 | 0.09 | 8.79 | 0.09 | Native Navigation EM |
| 79 | 7357.00 | 94.00 | 1.10 | 137.47 | 6989.19 | 1807.37 | 367.73 | 1769.56 | 0.89 | -74.62 | 1.11 | Native Navigation EM |
| 80 | 7452.00 | 95.00 | 0.79 | 119.81 | 7084.18 | 1808.32 | 366.73 | 1770.75 | -0.33 | -18.59 | 0.44 | Native Navigation EM |
| 81 | 7546.00 | 94.00 | 1.19 | 111.99 | 7178.17 | 1809.62 | 366.04 | 1772.21 | 0.43 | -8.32 | 0.45 | Native Navigation EM |
| 82 | 7640.00 | 94.00 | 1.71 | 131.32 | 7272.14 | 1811.27 | 364.75 | 1774.17 | 0.55 | 20.56 | 0.75 | Native Navigation EM |
| 83 | 7830.00 | 190.00 | 1.71 | 131.32 | 7462.05 | 1814.68 | 361.00 | 1778.43 | 0.00 | 0.00 | 0.00 | Proection @ TD |