



JAY BEE OIL AND GAS INC.
RPT 8-3 STO-1
TYLER COUNTY, WV

SECTION DETAILS

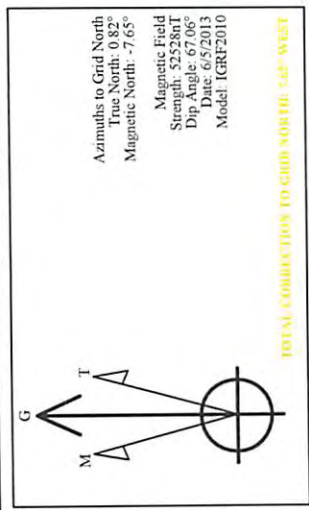
| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec | Target |
|-----|----------|-------|--------|---------|----------|---------|------|--------|---------|-------------------|
| 1 | 5852.00 | 1.07 | 130.84 | 5847.34 | -31.31 | -155.28 | 0.00 | 0.00 | -8.12 | |
| 2 | 5924.00 | 8.00 | 130.84 | 5919.07 | -35.03 | -150.97 | 9.62 | 0.00 | -3.45 | |
| 3 | 6214.01 | 23.32 | 210.63 | 6199.66 | -98.49 | -165.15 | 8.00 | 98.51 | 54.52 | |
| 4 | 6542.78 | 33.32 | 210.63 | 6501.58 | -210.49 | -231.46 | 0.00 | 0.00 | 146.60 | 3H ST01 LP P1+200 |
| 5 | 7562.06 | 90.00 | 165.66 | 6940.00 | -835.67 | -209.52 | 9.00 | -47.41 | 757.74 | 3H ST01 PBHL P1 |
| 6 | 15117.37 | 90.00 | 165.66 | 6940.00 | -8349.36 | 1711.23 | 0.00 | 0.00 | 8513.05 | 3H ST01 PBHL P1 |

WELL DETAILS

| Name | N/-S | +E/-W | Northing | Eastng | Latitude | Longitude | Slot |
|------|------|-------|-----------|------------|---------------|----------------|------|
| 3H | 0.00 | 0.00 | 360692.33 | 1636953.79 | 39°28'59.436N | 080°47'10.601W | N/A |

TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Northing | Eastng | Shape |
|-------------------|---------|----------|---------|-----------|------------|---------------------|
| 3H NO GO PT1 | 1260.00 | -3299.60 | 3665.80 | 357392.73 | 1637320.59 | Circle (Radius: 50) |
| 3H ST01 LP P1+200 | 6940.00 | -835.67 | -201.82 | 359856.66 | 1636744.27 | Point |
| 3H ST01 PBHL P1 | 6940.00 | -8349.36 | 1711.23 | 352342.97 | 1638665.02 | Point |

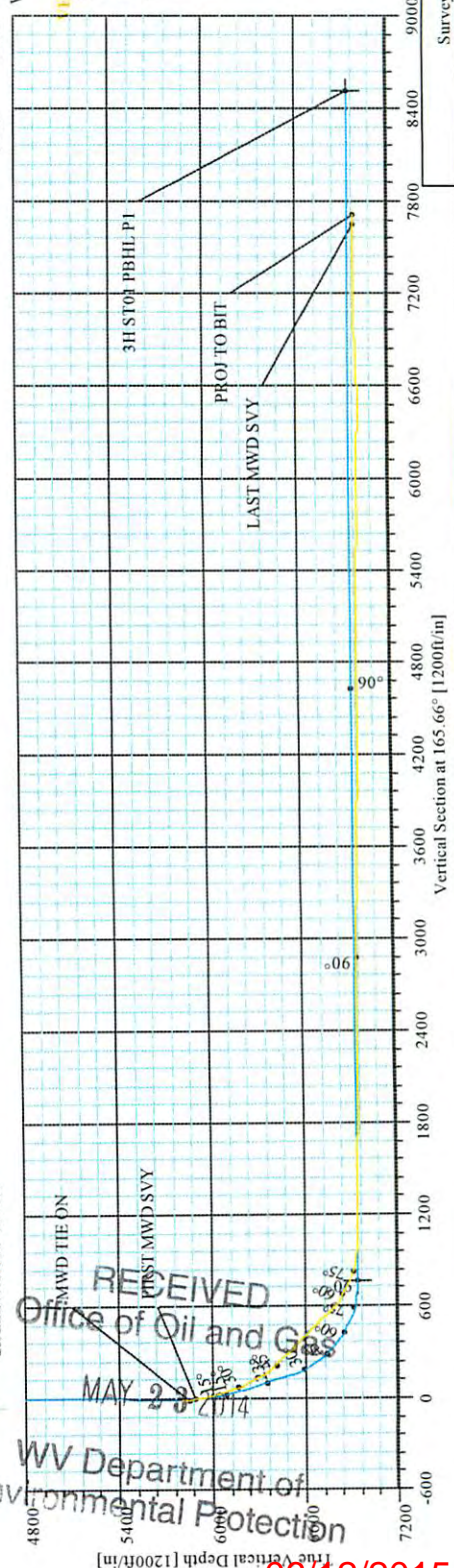
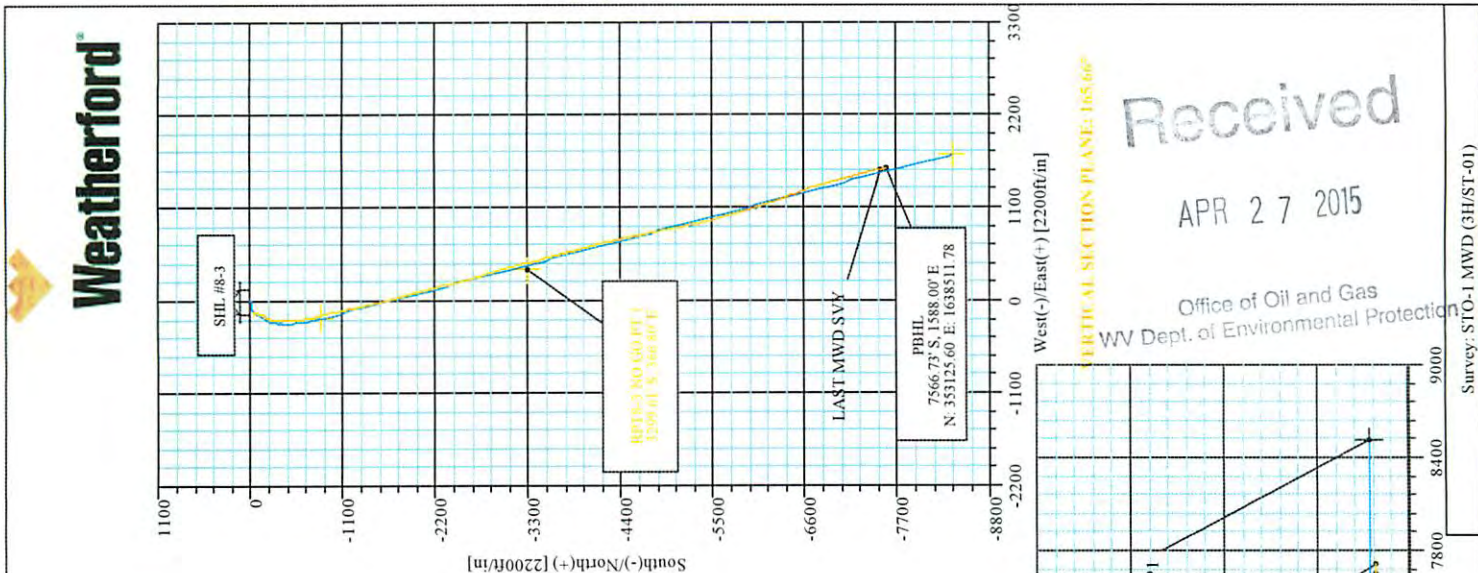


FIELD DETAILS
 Tyler county, WV
 Geodetic System: US State Plane Coordinate System 1927
 Ellipsoid: NAD27 (Clarke 1866)
 Zone: West Virginia, Northern Zone
 Magnetic Model: IGRF2010
 System Datum: Mean Sea Level
 Local North: Grid North

SITE DETAILS
 RPT 8
 Site Centre Northing: 360692.33
 Easting: 1636953.79
 Ground Level: 1244.00
 Positional Uncertainty: 0.00
 Convergence: -0.82

PRODUCTION TO BIT

| No | MD | Inc | Az | TVD | +N/-S | +E/-W | DLeg | TFace | VSec |
|-----|----------|-------|--------|---------|----------|---------|------|--------|---------|
| 204 | 14200.00 | 89.38 | 166.55 | 6975.35 | -7566.73 | 1558.00 | 1.68 | 166.65 | 7716.85 |



KB ELEVATION: 1260.00'
 GR ELEVATION: 1244.00'

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 Office of Oil and Gas
 MAY 28 2014
 WV Department of Environmental Protection

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APR 27 2015

Office of Oil and Gas
 WV Dept. of Environmental Protection

Survey: STO-1 MWD (3H/ST-01)

06/12/2015

Weatherford International Ltd.

DIRECTIONAL REPORT

| | | | |
|--|---|-----------------------|-------------------|
| Company: JAY BEE OIL & GAS INC. | Date: 6/18/2013 | Time: 07:57:38 | Page: 1 |
| Field: Tyler county, WV | Co-ordinate(NE) Reference: Well: 3H, Grid North | | |
| Site: RPT 8 | Vertical (TVD) Reference: SITE 1260.0 | | |
| Well: 3H | Section (VS) Reference: Well (0.00N,0.00E,165.66Azi) | | |
| Wellpath: ST-01 | Survey Calculation Method: Minimum Curvature | | Db: Sybase |

| | |
|-------------------|-----------------------|
| Plan: | Date Composed: |
| Principal: | Version: |
| | Tied-to: |

| | |
|--|---|
| Field: Tyler county, WV | Map Zone: West Virginia, Northern Zone |
| Map System: US State Plane Coordinate System 1927 | Coordinate System: Well Centre |
| Geo Datum: NAD27 (Clarke 1866) | Geomagnetic Model: IGRF2010 |
| Sys Datum: Mean Sea Level | |

| | | |
|--------------------------------------|-------------------------------|------------------------------------|
| Site: RPT 8 | | |
| Site Position: | Northing: 360692.33 ft | Latitude: 39 28 59.436 N |
| From: Map | Easting: 1636953.79 ft | Longitude: 80 47 10.601 W |
| Position Uncertainty: 0.00 ft | | North Reference: Grid |
| Ground Level: 1244.00 ft | | Grid Convergence: -0.82 deg |

| | | |
|--------------------------------------|-------------------------------|----------------------------------|
| Well: 3H | Slot Name: | |
| Well Position: +N/-S 0.00 ft | Northing: 360692.33 ft | Latitude: 39 28 59.436 N |
| +E/-W 0.00 ft | Easting: 1636953.79 ft | Longitude: 80 47 10.601 W |
| Position Uncertainty: 0.00 ft | | |

| | | | |
|---|---|-------|-----------|
| Wellpath: ST-01 | Drilled From: HORIZONTAL | | |
| Current Datum: SITE | Tie-on Depth: 5852.00 ft | | |
| Magnetic Data: 6/5/2013 | Above System Datum: Mean Sea Level | | |
| Field Strength: 52528 nT | Declination: -8.47 deg | | |
| Vertical Section: Depth From (TVD) | Mag Dip Angle: 67.06 deg | | |
| ft | +N/-S | +E/-W | Direction |
| | ft | ft | deg |
| 0.00 | 0.00 | 0.00 | 165.66 |

| Plan Section Information | | | | | | | | | | |
|--------------------------|------|------|-----|-------|-------|-----|-------|------|-----|--------|
| MD | Incl | Azim | TVD | +N/-S | +E/-W | DLS | Build | Turn | TFO | Target |
| | | | | | | | | | | |

| Survey | | | | | | | | | | |
|---------|-------|--------|---------|---------|---------|--------|-----------|-----------|------------|---------------|
| MD | Incl | Azim | TVD | N/S | E/W | VS | DLS | MapN | MapE | Annotation |
| ft | deg | deg | ft | ft | ft | ft | deg/100ft | ft | ft | |
| 1261.99 | 4.37 | 259.45 | 1260.00 | -12.00 | -51.42 | -1.11 | 0.00 | 360680.33 | 1636902.36 | 3H NO GO PT |
| 5807.00 | 0.47 | 238.15 | 5802.34 | -30.94 | -155.44 | -8.52 | 0.09 | 360661.39 | 1636798.35 | |
| 5852.00 | 1.07 | 130.84 | 5847.34 | -31.31 | -155.28 | -8.12 | 2.87 | 360661.02 | 1636798.51 | MWD TIE ON |
| 5896.00 | 6.83 | 131.59 | 5891.21 | -33.32 | -153.01 | -5.62 | 13.09 | 360659.01 | 1636800.78 | FIRST MWD SVY |
| 5941.00 | 12.15 | 134.35 | 5935.58 | -38.41 | -147.62 | 0.65 | 11.86 | 360653.92 | 1636806.17 | |
| 5985.00 | 13.77 | 150.28 | 5978.47 | -46.20 | -141.71 | 9.66 | 8.88 | 360646.13 | 1636812.08 | |
| 6030.00 | 16.15 | 174.49 | 6021.99 | -57.09 | -138.45 | 21.02 | 14.73 | 360635.24 | 1636815.34 | |
| 6072.00 | 18.43 | 194.18 | 6062.12 | -69.35 | -139.52 | 32.64 | 14.87 | 360622.98 | 1636814.27 | |
| 6116.00 | 22.27 | 200.21 | 6103.37 | -83.93 | -144.10 | 45.62 | 9.93 | 360608.46 | 1636813.59 | |
| 6160.00 | 27.50 | 199.77 | 6143.27 | -101.32 | -150.42 | 60.91 | 11.89 | 360591.01 | 1636803.36 | |
| 6204.00 | 31.84 | 206.12 | 6181.51 | -121.32 | -158.97 | 78.16 | 12.17 | 360571.01 | 1636794.81 | |
| 6249.00 | 34.67 | 209.64 | 6219.14 | -143.11 | -170.53 | 96.41 | 7.61 | 360549.22 | 1636783.25 | |
| 6294.00 | 36.62 | 211.26 | 6255.70 | -165.71 | -183.83 | 115.01 | 4.81 | 360526.69 | 1636769.95 | |
| 6338.00 | 39.69 | 213.21 | 6290.30 | -188.69 | -198.34 | 133.68 | 7.49 | 360503.64 | 1636755.45 | |
| 6383.00 | 39.98 | 209.47 | 6324.86 | -213.30 | -213.32 | 153.82 | 5.36 | 360479.03 | 1636740.46 | |
| 6428.00 | 41.72 | 199.92 | 6358.93 | -239.99 | -225.55 | 176.65 | 14.40 | 360452.34 | 1636728.24 | |
| 6472.00 | 44.37 | 190.72 | 6391.12 | -268.91 | -233.41 | 202.72 | 15.48 | 360423.42 | 1636720.38 | |
| 6517.00 | 45.56 | 183.62 | 6422.98 | -300.42 | -237.35 | 232.27 | 11.45 | 360391.91 | 1636716.43 | |
| 6562.00 | 45.12 | 183.20 | 6454.61 | -332.37 | -239.26 | 262.76 | 1.18 | 360359.96 | 1636714.53 | |
| 6606.00 | 42.78 | 180.59 | 6486.28 | -362.88 | -240.28 | 292.06 | 6.72 | 360329.45 | 1636713.51 | |

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Office of Oil and Gas
Department of Environmental Protection

Weatherford International Ltd.

DIRECTIONAL REPORT

Company: JAY BEE OIL & GAS INC.
 Field: Tyler county, WV
 Site: RPT 8
 Well: 3H
 Wellpath: ST-01

Date: 6/18/2013 Time: 07:57:38 Page: 2
 Co-ordinate(NE) Reference: Well: 3H, Grid North
 Vertical (TVD) Reference: SITE 1260.0
 Section (VS) Reference: Well (0.00N,0.00E,165.66Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

| MD ft | Incl deg | Azim deg | TVD ft | N/S ft | E/W ft | VS ft | DLS deg/100ft | MapN ft | MapE ft | Annotation |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|------------|------------|------------|
| 6651.00 | 43.90 | 178.81 | 6519.01 | -393.76 | -240.11 | 322.02 | 3.68 | 360298.57 | 1636713.67 | |
| 6695.00 | 48.12 | 177.87 | 6549.57 | -425.40 | -239.19 | 352.90 | 9.71 | 360266.93 | 1636714.60 | |
| 6740.00 | 48.91 | 176.94 | 6579.38 | -459.07 | -237.66 | 385.91 | 2.34 | 360233.26 | 1636716.13 | |
| 6784.00 | 48.74 | 176.01 | 6608.34 | -492.13 | -235.62 | 418.44 | 1.64 | 360200.20 | 1636718.16 | |
| 6828.00 | 45.25 | 173.40 | 6638.35 | -524.16 | -232.68 | 450.20 | 9.04 | 360168.17 | 1636721.11 | |
| 6873.00 | 40.44 | 170.40 | 6671.34 | -554.44 | -228.40 | 480.60 | 11.61 | 360137.89 | 1636725.38 | |
| 6917.00 | 38.99 | 169.77 | 6705.19 | -582.14 | -223.56 | 508.63 | 3.42 | 360110.19 | 1636730.22 | |
| 6962.00 | 42.16 | 170.69 | 6739.36 | -610.98 | -218.61 | 537.80 | 7.17 | 360081.35 | 1636735.18 | |
| 7006.00 | 48.37 | 171.31 | 6770.31 | -641.84 | -213.73 | 568.91 | 14.15 | 360050.49 | 1636740.06 | |
| 7050.00 | 55.28 | 170.99 | 6797.49 | -676.00 | -208.41 | 603.32 | 15.71 | 360016.33 | 1636745.38 | |
| 7095.00 | 59.96 | 170.10 | 6821.59 | -713.47 | -202.16 | 641.17 | 10.53 | 359978.86 | 1636751.63 | |
| 7139.00 | 60.00 | 169.65 | 6843.60 | -750.97 | -195.46 | 679.17 | 0.89 | 359941.36 | 1636758.33 | |
| 7184.00 | 62.13 | 167.26 | 6865.37 | -789.55 | -187.57 | 718.49 | 6.63 | 359902.78 | 1636766.22 | |
| 7228.00 | 66.11 | 166.43 | 6884.57 | -828.09 | -178.56 | 758.07 | 9.20 | 359864.24 | 1636775.23 | |
| 7273.00 | 72.17 | 165.44 | 6900.59 | -868.86 | -168.34 | 800.10 | 13.62 | 359823.47 | 1636785.45 | |
| 7317.00 | 76.39 | 165.54 | 6912.51 | -909.85 | -157.73 | 842.44 | 9.59 | 359782.48 | 1636796.06 | |
| 7361.00 | 79.81 | 166.77 | 6921.58 | -951.65 | -147.43 | 885.49 | 8.24 | 359740.68 | 1636806.36 | |
| 7405.00 | 83.55 | 167.51 | 6927.95 | -994.09 | -137.74 | 929.00 | 8.66 | 359698.24 | 1636816.04 | |
| 7450.00 | 86.85 | 168.02 | 6931.71 | -1037.91 | -128.24 | 973.80 | 7.42 | 359654.42 | 1636825.55 | |
| 7494.00 | 87.07 | 167.80 | 6934.05 | -1080.87 | -119.04 | 1017.71 | 0.71 | 359611.46 | 1636834.75 | |
| 7539.00 | 87.48 | 168.13 | 6936.19 | -1124.83 | -109.67 | 1062.62 | 1.17 | 359567.50 | 1636844.12 | |
| 7583.00 | 88.81 | 167.96 | 6937.61 | -1167.85 | -100.56 | 1106.56 | 3.05 | 359524.48 | 1636853.23 | |
| 7627.00 | 89.02 | 168.10 | 6938.44 | -1210.89 | -91.43 | 1150.51 | 0.57 | 359481.44 | 1636862.35 | |
| 7672.00 | 88.88 | 167.30 | 6939.27 | -1254.85 | -81.85 | 1195.48 | 1.80 | 359437.48 | 1636871.94 | |
| 7717.00 | 88.60 | 166.93 | 6940.26 | -1298.70 | -71.82 | 1240.45 | 1.03 | 359393.63 | 1636881.97 | |
| 7761.00 | 89.65 | 166.60 | 6940.93 | -1341.53 | -61.74 | 1284.44 | 2.50 | 359350.80 | 1636892.04 | |
| 7806.00 | 89.79 | 167.00 | 6941.15 | -1385.34 | -51.47 | 1329.43 | 0.94 | 359306.99 | 1636902.32 | |
| 7850.00 | 89.79 | 167.50 | 6941.31 | -1428.25 | -41.76 | 1373.41 | 1.14 | 359264.08 | 1636912.03 | |
| 7894.00 | 89.93 | 167.06 | 6941.42 | -1471.17 | -32.07 | 1417.39 | 1.05 | 359221.16 | 1636921.72 | |
| 7936.00 | 89.93 | 166.71 | 6941.47 | -1512.08 | -22.54 | 1459.38 | 0.83 | 359180.25 | 1636931.25 | |
| 7981.00 | 89.72 | 166.06 | 6941.61 | -1555.81 | -11.95 | 1504.38 | 1.52 | 359136.52 | 1636941.84 | |
| 8025.00 | 89.30 | 165.71 | 6941.98 | -1598.48 | -1.22 | 1548.38 | 1.24 | 359093.85 | 1636952.57 | |
| 8070.00 | 89.09 | 165.38 | 6942.61 | -1642.05 | 10.01 | 1593.37 | 0.87 | 359050.28 | 1636963.80 | |
| 8114.00 | 89.37 | 164.94 | 6943.21 | -1684.58 | 21.28 | 1637.37 | 1.19 | 359007.75 | 1636975.07 | |
| 8158.00 | 89.30 | 164.47 | 6943.72 | -1727.02 | 32.89 | 1681.36 | 1.08 | 358965.31 | 1636986.68 | |
| 8203.00 | 89.30 | 164.43 | 6944.27 | -1770.37 | 44.95 | 1726.34 | 0.09 | 358921.96 | 1636998.74 | |
| 8247.00 | 89.30 | 164.54 | 6944.80 | -1812.76 | 56.72 | 1770.33 | 0.25 | 358879.57 | 1637010.51 | |
| 8292.00 | 89.44 | 165.06 | 6945.30 | -1856.19 | 68.52 | 1815.32 | 1.20 | 358836.14 | 1637022.31 | |
| 8336.00 | 89.44 | 165.36 | 6945.73 | -1898.73 | 79.75 | 1859.32 | 0.68 | 358793.60 | 1637033.54 | |
| 8381.00 | 89.58 | 165.41 | 6946.11 | -1942.27 | 91.10 | 1904.32 | 0.33 | 358750.06 | 1637044.89 | |
| 8425.00 | 89.58 | 165.97 | 6946.44 | -1984.90 | 101.98 | 1948.32 | 1.27 | 358707.43 | 1637055.77 | |
| 8470.00 | 89.44 | 166.06 | 6946.82 | -2028.57 | 112.85 | 1993.31 | 0.37 | 358663.76 | 1637066.64 | |
| 8514.00 | 89.65 | 166.10 | 6947.17 | -2071.27 | 123.44 | 2037.31 | 0.49 | 358621.06 | 1637077.23 | |
| 8559.00 | 89.86 | 166.31 | 6947.36 | -2114.98 | 134.17 | 2082.31 | 0.66 | 358577.35 | 1637087.96 | |
| 8603.00 | 89.72 | 166.73 | 6947.52 | -2157.76 | 144.42 | 2126.30 | 1.01 | 358534.57 | 1637098.21 | |
| 8648.00 | 89.51 | 167.21 | 6947.83 | -2201.60 | 154.57 | 2171.29 | 1.16 | 358490.73 | 1637108.36 | |
| 8692.00 | 89.51 | 167.61 | 6948.20 | -2244.54 | 164.16 | 2215.27 | 0.91 | 358447.79 | 1637117.95 | |
| 8736.00 | 89.30 | 168.38 | 6948.66 | -2287.58 | 173.31 | 2259.23 | 1.81 | 358404.75 | 1637127.10 | |
| 8781.00 | 89.37 | 168.76 | 6949.18 | -2331.68 | 182.23 | 2304.17 | 0.86 | 358360.65 | 1637136.02 | |
| 8825.00 | 89.65 | 168.29 | 6949.56 | -2374.80 | 190.98 | 2348.11 | 1.24 | 358317.53 | 1637144.77 | |
| 8870.00 | 88.81 | 165.26 | 6950.16 | -2418.60 | 201.27 | 2393.09 | 6.99 | 358273.73 | 1637155.06 | |
| 8914.00 | 88.88 | 165.94 | 6951.05 | -2461.21 | 212.21 | 2437.08 | 1.55 | 358231.12 | 1637166.00 | |

Received

APR 27 2015

Office of Oil and Gas
 West Virginia Department of Environmental Protection

Weatherford International Ltd.

DIRECTIONAL REPORT

Company: JAY BEE OIL & GAS INC.
 Field: Tyler county, WV
 Site: RPT 8
 Well: 3H
 Wellpath: ST-01

Date: 6/18/2013 Time: 07:57:38 Page: 3
 Co-ordinate(NE) Reference: Well: 3H, Grid North
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 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

| MD ft | Incl deg | Azim deg | TVD ft | N/S ft | E/W ft | VS ft | DLS deg/100ft | MapN ft | MapE ft | Annotation |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|------------|------------|------------|
| 8959.00 | 89.37 | 166.49 | 6951.74 | -2504.91 | 222.94 | 2482.08 | 1.64 | 358187.42 | 1637176.72 | |
| 9004.00 | 89.37 | 164.83 | 6952.23 | -2548.50 | 234.08 | 2527.07 | 3.69 | 358143.83 | 1637187.87 | |
| 9048.00 | 89.51 | 164.55 | 6952.66 | -2590.94 | 245.70 | 2571.06 | 0.71 | 358101.39 | 1637199.48 | |
| 9092.00 | 89.65 | 162.72 | 6952.98 | -2633.15 | 258.09 | 2615.03 | 4.17 | 358059.18 | 1637211.88 | |
| 9137.00 | 89.72 | 162.45 | 6953.23 | -2676.09 | 271.56 | 2659.97 | 0.62 | 358016.24 | 1637225.35 | |
| 9181.00 | 89.65 | 162.41 | 6953.47 | -2718.03 | 284.84 | 2703.90 | 0.18 | 357974.30 | 1637238.63 | |
| 9226.00 | 89.72 | 162.59 | 6953.72 | -2760.95 | 298.38 | 2748.83 | 0.43 | 357931.38 | 1637252.16 | |
| 9271.00 | 89.93 | 162.19 | 6953.86 | -2803.84 | 311.99 | 2793.75 | 1.00 | 357888.49 | 1637265.78 | |
| 9315.00 | 89.65 | 163.93 | 6954.02 | -2845.93 | 324.81 | 2837.71 | 4.01 | 357846.40 | 1637278.60 | |
| 9359.00 | 90.07 | 164.60 | 6954.13 | -2888.28 | 336.74 | 2881.69 | 1.80 | 357804.05 | 1637290.53 | |
| 9404.00 | 90.14 | 164.69 | 6954.05 | -2931.67 | 348.66 | 2926.69 | 0.25 | 357760.66 | 1637302.44 | |
| 9448.00 | 90.07 | 165.14 | 6953.96 | -2974.16 | 360.11 | 2970.68 | 1.04 | 357718.17 | 1637313.90 | |
| 9493.00 | 89.23 | 165.36 | 6954.24 | -3017.67 | 371.57 | 3015.68 | 1.93 | 357674.66 | 1637325.35 | |
| 9535.00 | 89.37 | 165.13 | 6954.75 | -3058.29 | 382.26 | 3057.68 | 0.64 | 357634.04 | 1637336.05 | |
| 9580.00 | 89.58 | 165.59 | 6955.16 | -3101.82 | 393.63 | 3102.67 | 1.12 | 357590.51 | 1637347.42 | |
| 9624.00 | 89.44 | 166.15 | 6955.54 | -3144.49 | 404.38 | 3146.67 | 1.31 | 357547.84 | 1637358.16 | |
| 9669.00 | 89.16 | 165.96 | 6956.09 | -3188.16 | 415.22 | 3191.67 | 0.75 | 357504.17 | 1637369.01 | |
| 9713.00 | 89.16 | 165.91 | 6956.74 | -3230.84 | 425.91 | 3235.66 | 0.11 | 357461.49 | 1637379.70 | |
| 9757.00 | 89.30 | 165.79 | 6957.33 | -3273.50 | 436.67 | 3279.66 | 0.42 | 357418.83 | 1637390.45 | |
| 9799.00 | 89.51 | 166.18 | 6957.76 | -3314.25 | 446.84 | 3321.65 | 1.05 | 357378.08 | 1637400.62 | |
| 9844.00 | 89.72 | 165.77 | 6958.07 | -3357.90 | 457.74 | 3366.65 | 1.02 | 357334.43 | 1637411.53 | |
| 9889.00 | 89.65 | 165.43 | 6958.31 | -3401.49 | 468.93 | 3411.65 | 0.77 | 357290.84 | 1637422.72 | |
| 9933.00 | 89.65 | 165.53 | 6958.58 | -3444.08 | 479.96 | 3455.65 | 0.23 | 357248.25 | 1637433.75 | |
| 9964.00 | 89.65 | 164.85 | 6958.77 | -3474.05 | 487.89 | 3486.65 | 2.19 | 357218.28 | 1637441.68 | |
| 9994.00 | 89.86 | 165.10 | 6958.90 | -3503.03 | 495.67 | 3516.65 | 1.09 | 357189.30 | 1637449.45 | |
| 10024.00 | 90.00 | 165.17 | 6958.94 | -3532.02 | 503.36 | 3546.64 | 0.52 | 357160.31 | 1637457.15 | |
| 10055.00 | 90.00 | 165.33 | 6958.94 | -3562.00 | 511.25 | 3577.64 | 0.52 | 357130.33 | 1637465.04 | |
| 10085.00 | 90.07 | 165.45 | 6958.92 | -3591.03 | 518.82 | 3607.64 | 0.46 | 357101.30 | 1637472.61 | |
| 10116.00 | 89.44 | 165.50 | 6959.05 | -3621.04 | 526.60 | 3638.64 | 2.04 | 357071.29 | 1637480.38 | |
| 10147.00 | 89.02 | 165.04 | 6959.47 | -3651.02 | 534.48 | 3669.64 | 2.01 | 357041.31 | 1637488.26 | |
| 10177.00 | 88.39 | 165.02 | 6960.15 | -3679.99 | 542.23 | 3699.63 | 2.10 | 357012.34 | 1637496.01 | |
| 10208.00 | 87.06 | 165.36 | 6961.38 | -3709.94 | 550.14 | 3730.60 | 4.43 | 356982.39 | 1637503.99 | |
| 10238.00 | 86.99 | 165.56 | 6962.93 | -3738.94 | 557.66 | 3760.56 | 0.71 | 356953.39 | 1637511.45 | |
| 10269.00 | 87.13 | 166.01 | 6964.52 | -3768.95 | 565.27 | 3791.52 | 1.52 | 356923.38 | 1637519.05 | |
| 10299.00 | 87.55 | 165.83 | 6965.91 | -3798.02 | 572.56 | 3821.49 | 1.52 | 356894.31 | 1637526.34 | |
| 10330.00 | 87.90 | 165.26 | 6967.15 | -3828.01 | 580.29 | 3852.46 | 2.16 | 356864.32 | 1637534.08 | |
| 10361.00 | 88.04 | 165.29 | 6968.24 | -3857.97 | 588.16 | 3883.44 | 0.46 | 356834.36 | 1637541.95 | |
| 10391.00 | 88.04 | 165.33 | 6969.27 | -3886.98 | 595.77 | 3913.43 | 0.13 | 356805.35 | 1637549.55 | |
| 10421.00 | 88.25 | 165.70 | 6970.24 | -3916.01 | 603.27 | 3943.41 | 1.42 | 356776.32 | 1637557.05 | |
| 10452.00 | 88.39 | 165.85 | 6971.15 | -3946.04 | 610.88 | 3974.40 | 0.66 | 356746.29 | 1637564.67 | |
| 10482.00 | 88.39 | 165.58 | 6971.99 | -3975.10 | 618.28 | 4004.39 | 0.90 | 356717.23 | 1637572.07 | |
| 10513.00 | 88.46 | 165.37 | 6972.84 | -4005.10 | 626.05 | 4035.37 | 0.71 | 356687.23 | 1637579.84 | |
| 10544.00 | 88.74 | 165.65 | 6973.60 | -4035.11 | 633.81 | 4066.36 | 1.28 | 356657.22 | 1637587.59 | |
| 10574.00 | 88.88 | 165.66 | 6974.22 | -4064.17 | 641.24 | 4096.36 | 0.47 | 356628.16 | 1637595.02 | |
| 10605.00 | 88.88 | 165.54 | 6974.83 | -4094.19 | 648.95 | 4127.35 | 0.39 | 356598.14 | 1637602.73 | |
| 10635.00 | 89.23 | 165.86 | 6975.33 | -4123.25 | 656.35 | 4157.35 | 1.58 | 356569.08 | 1637610.14 | |
| 10665.00 | 89.58 | 166.48 | 6975.64 | -4152.38 | 663.53 | 4187.34 | 2.37 | 356539.95 | 1637617.31 | |
| 10695.00 | 89.93 | 167.24 | 6975.77 | -4181.59 | 670.35 | 4217.34 | 2.79 | 356510.74 | 1637624.13 | |
| 10726.00 | 90.42 | 167.69 | 6975.67 | -4211.86 | 677.07 | 4248.32 | 2.15 | 356480.47 | 1637630.86 | |
| 10757.00 | 90.84 | 168.02 | 6975.33 | -4242.16 | 683.60 | 4279.30 | 1.72 | 356450.17 | 1637637.38 | |
| 10787.00 | 89.37 | 167.20 | 6975.27 | -4271.46 | 690.03 | 4309.28 | 5.61 | 356420.87 | 1637643.82 | |
| 10818.00 | 89.16 | 167.04 | 6975.67 | -4301.68 | 696.94 | 4340.27 | 0.85 | 356390.65 | 1637650.73 | |
| 10848.00 | 89.23 | 167.74 | 6976.09 | -4330.95 | 703.49 | 4370.25 | 2.34 | 356361.38 | 1637657.28 | |

Received

APR 27 2015

Office of Oil and Gas
Dept. of Environmental Protection

Weatherford International Ltd.

DIRECTIONAL REPORT

Company: JAY BEE OIL & GAS INC.
 Field: Tyler county, WV
 Site: RPT 8
 Well: 3H
 Wellpath: ST-01

Date: 6/18/2013 Time: 07:57:38 Page: 4
 Co-ordinate(NE) Reference: Well: 3H, Grid North
 Vertical (TVD) Reference: SITE 1260.0
 Section (VS) Reference: Well (0.00N,0.00E,165.66Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

| MD ft | Incl deg | Azim deg | TVD ft | N/S ft | E/W ft | VS ft | DLS deg/100ft | MapN ft | MapE ft | Annotation |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|------------|------------|------------|
| 10879.00 | 89.30 | 167.72 | 6976.49 | -4361.24 | 710.08 | 4401.23 | 0.23 | 356331.09 | 1637663.86 | |
| 10909.00 | 89.37 | 167.62 | 6976.84 | -4390.55 | 716.48 | 4431.21 | 0.41 | 356301.78 | 1637670.27 | |
| 10939.00 | 89.51 | 167.42 | 6977.13 | -4419.84 | 722.97 | 4461.19 | 0.81 | 356272.49 | 1637676.75 | |
| 10969.00 | 89.65 | 167.95 | 6977.35 | -4449.14 | 729.36 | 4491.17 | 1.83 | 356243.19 | 1637683.15 | |
| 11000.00 | 89.86 | 168.05 | 6977.49 | -4479.47 | 735.81 | 4522.14 | 0.75 | 356212.86 | 1637689.60 | |
| 11030.00 | 89.72 | 168.18 | 6977.60 | -4508.82 | 741.99 | 4552.11 | 0.64 | 356183.51 | 1637695.78 | |
| 11061.00 | 90.00 | 168.64 | 6977.67 | -4539.19 | 748.22 | 4583.08 | 1.74 | 356153.14 | 1637702.00 | |
| 11092.00 | 90.14 | 168.65 | 6977.63 | -4569.58 | 754.32 | 4614.04 | 0.45 | 356122.75 | 1637708.11 | |
| 11122.00 | 90.35 | 168.16 | 6977.51 | -4598.97 | 760.35 | 4644.00 | 1.78 | 356093.36 | 1637714.14 | |
| 11153.00 | 90.49 | 167.95 | 6977.28 | -4629.30 | 766.77 | 4674.97 | 0.81 | 356063.03 | 1637720.55 | |
| 11183.00 | 90.77 | 168.31 | 6976.95 | -4658.66 | 772.94 | 4704.94 | 1.52 | 356033.67 | 1637726.72 | |
| 11214.00 | 91.05 | 168.67 | 6976.46 | -4689.03 | 779.12 | 4735.90 | 1.47 | 356003.30 | 1637732.91 | |
| 11244.00 | 91.19 | 168.84 | 6975.87 | -4718.45 | 784.97 | 4765.85 | 0.73 | 355973.88 | 1637738.76 | |
| 11289.00 | 89.93 | 169.19 | 6975.43 | -4762.62 | 793.54 | 4810.77 | 2.91 | 355929.71 | 1637747.33 | |
| 11333.00 | 90.00 | 169.26 | 6975.46 | -4805.84 | 801.77 | 4854.69 | 0.22 | 355886.49 | 1637755.56 | |
| 11378.00 | 90.00 | 169.80 | 6975.46 | -4850.09 | 809.95 | 4899.58 | 1.20 | 355842.24 | 1637763.73 | |
| 11422.00 | 90.28 | 170.26 | 6975.35 | -4893.43 | 817.56 | 4943.46 | 1.22 | 355798.90 | 1637771.35 | |
| 11467.00 | 90.56 | 169.13 | 6975.02 | -4937.70 | 825.61 | 4988.34 | 2.59 | 355754.63 | 1637779.40 | |
| 11511.00 | 90.84 | 169.52 | 6974.48 | -4980.94 | 833.76 | 5032.25 | 1.09 | 355711.39 | 1637787.55 | |
| 11556.00 | 90.21 | 168.88 | 6974.07 | -5025.14 | 842.20 | 5077.16 | 2.00 | 355667.19 | 1637795.98 | |
| 11600.00 | 88.88 | 169.58 | 6974.42 | -5068.36 | 850.42 | 5121.07 | 3.42 | 355623.97 | 1637804.20 | |
| 11645.00 | 88.74 | 170.17 | 6975.35 | -5112.65 | 858.33 | 5165.94 | 1.35 | 355579.68 | 1637812.11 | |
| 11689.00 | 88.81 | 170.18 | 6976.29 | -5155.99 | 865.83 | 5209.80 | 0.16 | 355536.34 | 1637819.62 | |
| 11734.00 | 89.16 | 168.95 | 6977.09 | -5200.24 | 873.98 | 5254.68 | 2.84 | 355492.09 | 1637827.77 | |
| 11778.00 | 89.51 | 168.49 | 6977.60 | -5243.39 | 882.59 | 5298.62 | 1.31 | 355448.94 | 1637836.38 | |
| 11823.00 | 89.93 | 168.05 | 6977.82 | -5287.45 | 891.74 | 5343.57 | 1.35 | 355404.88 | 1637845.52 | |
| 11867.00 | 90.28 | 167.77 | 6977.74 | -5330.47 | 900.95 | 5387.54 | 1.02 | 355361.86 | 1637854.74 | |
| 11912.00 | 89.02 | 167.26 | 6978.02 | -5374.41 | 910.68 | 5432.51 | 3.02 | 355317.92 | 1637864.47 | |
| 11956.00 | 88.95 | 166.65 | 6978.80 | -5417.26 | 920.61 | 5476.49 | 1.40 | 355275.07 | 1637874.40 | |
| 12000.00 | 88.11 | 165.62 | 6979.92 | -5459.97 | 931.15 | 5520.47 | 3.02 | 355232.36 | 1637884.94 | |
| 12045.00 | 87.83 | 164.97 | 6981.52 | -5503.47 | 942.57 | 5565.44 | 1.57 | 355188.86 | 1637896.35 | |
| 12089.00 | 88.11 | 164.77 | 6983.08 | -5545.91 | 954.04 | 5609.41 | 0.78 | 355146.42 | 1637907.83 | |
| 12132.00 | 88.25 | 164.71 | 6984.44 | -5587.38 | 965.35 | 5652.39 | 0.35 | 355104.95 | 1637919.14 | |
| 12176.00 | 88.53 | 164.22 | 6985.68 | -5629.75 | 977.13 | 5696.36 | 1.28 | 355062.58 | 1637930.92 | |
| 12219.00 | 88.88 | 164.23 | 6986.65 | -5671.12 | 988.82 | 5739.33 | 0.81 | 355021.21 | 1637942.61 | |
| 12264.00 | 89.16 | 163.69 | 6987.42 | -5714.36 | 1001.25 | 5784.31 | 1.35 | 354977.97 | 1637955.04 | |
| 12308.00 | 89.51 | 163.89 | 6987.93 | -5756.61 | 1013.54 | 5828.28 | 0.92 | 354935.72 | 1637967.32 | |
| 12353.00 | 90.07 | 163.98 | 6988.10 | -5799.85 | 1025.99 | 5873.26 | 1.26 | 354892.48 | 1637979.78 | |
| 12397.00 | 90.00 | 163.21 | 6988.07 | -5842.06 | 1038.42 | 5917.23 | 1.76 | 354850.27 | 1637992.20 | |
| 12441.00 | 89.44 | 163.44 | 6988.28 | -5884.21 | 1051.04 | 5961.19 | 1.38 | 354808.12 | 1638004.83 | |
| 12486.00 | 88.11 | 163.61 | 6989.25 | -5927.35 | 1063.80 | 6006.15 | 2.98 | 354764.98 | 1638017.59 | |
| 12530.00 | 88.60 | 163.80 | 6990.51 | -5969.57 | 1076.14 | 6050.11 | 1.19 | 354722.76 | 1638029.93 | |
| 12558.00 | 89.04 | 163.84 | 6991.09 | -5996.45 | 1083.94 | 6078.09 | 1.58 | 354695.88 | 1638037.73 | |
| 12575.00 | 89.30 | 163.86 | 6991.33 | -6012.78 | 1088.67 | 6095.08 | 1.53 | 354679.55 | 1638042.46 | |
| 12619.00 | 89.23 | 163.67 | 6991.90 | -6055.02 | 1100.97 | 6139.05 | 0.46 | 354637.31 | 1638054.76 | |
| 12664.00 | 88.67 | 162.32 | 6992.72 | -6098.05 | 1114.13 | 6183.99 | 3.25 | 354594.28 | 1638067.91 | |
| 12708.00 | 89.44 | 162.81 | 6993.45 | -6140.02 | 1127.31 | 6227.92 | 2.07 | 354552.31 | 1638081.10 | |
| 12753.00 | 90.07 | 162.07 | 6993.64 | -6182.92 | 1140.88 | 6272.85 | 2.16 | 354509.41 | 1638094.67 | |
| 12797.00 | 88.81 | 160.47 | 6994.07 | -6224.59 | 1155.01 | 6316.72 | 4.63 | 354467.74 | 1638108.80 | |
| 12842.00 | 88.81 | 160.27 | 6995.00 | -6266.96 | 1170.13 | 6361.51 | 0.44 | 354425.37 | 1638123.91 | |
| 12886.00 | 89.30 | 159.60 | 6995.73 | -6308.29 | 1185.22 | 6405.29 | 1.89 | 354384.04 | 1638139.01 | |
| 12931.00 | 89.58 | 159.17 | 6996.17 | -6350.40 | 1201.06 | 6450.02 | 1.14 | 354341.93 | 1638154.85 | |

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Office of Oil and Gas
 Department of Environmental Protection

06/12/2015

Weatherford International Ltd.

DIRECTIONAL REPORT

| | |
|---|---|
| Company: JAY BEE OIL & GAS INC. Field: Tyler county, WV Site: RPT 8 Well: 3H Wellpath: ST-01 | Date: 6/18/2013 Time: 07:57:38 Page: 5 Co-ordinate(NE) Reference: Well: 3H, Grid North Vertical (TVD) Reference: SITE 1260.0 Section (VS) Reference: Well (0.00N,0.00E,165.66Azi) Survey Calculation Method: Minimum Curvature Db: Sybase |
|---|---|

Survey

| MD ft | Incl deg | Azim deg | TVD ft | N/S ft | E/W ft | VS ft | DLS deg/100ft | MapN ft | MapE ft | Annotation |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|------------|------------|--------------|
| 12975.00 | 90.56 | 159.93 | 6996.12 | -6391.63 | 1216.44 | 6493.77 | 2.82 | 354300.70 | 1638170.22 | |
| 13019.00 | 91.26 | 160.64 | 6995.42 | -6433.04 | 1231.28 | 6537.57 | 2.27 | 354259.29 | 1638185.06 | |
| 13064.00 | 91.33 | 160.07 | 6994.40 | -6475.41 | 1246.40 | 6582.36 | 1.28 | 354216.92 | 1638200.19 | |
| 13109.00 | 92.10 | 160.21 | 6993.05 | -6517.72 | 1261.68 | 6627.13 | 1.74 | 354174.61 | 1638215.47 | |
| 13151.00 | 92.80 | 160.41 | 6991.26 | -6557.23 | 1275.82 | 6668.91 | 1.73 | 354135.10 | 1638229.61 | |
| 13195.00 | 92.59 | 161.16 | 6989.19 | -6598.73 | 1290.28 | 6712.70 | 1.77 | 354093.60 | 1638244.07 | |
| 13240.00 | 91.89 | 161.53 | 6987.43 | -6641.33 | 1304.67 | 6757.54 | 1.76 | 354051.00 | 1638258.45 | |
| 13285.00 | 91.89 | 161.29 | 6985.95 | -6683.96 | 1319.01 | 6802.39 | 0.53 | 354008.37 | 1638272.79 | |
| 13329.00 | 92.24 | 162.26 | 6984.36 | -6725.72 | 1332.76 | 6846.26 | 2.34 | 353966.61 | 1638286.54 | |
| 13374.00 | 92.52 | 162.38 | 6982.49 | -6768.56 | 1346.41 | 6891.15 | 0.68 | 353923.77 | 1638300.20 | |
| 13418.00 | 92.31 | 163.31 | 6980.64 | -6810.57 | 1359.38 | 6935.05 | 2.17 | 353881.76 | 1638313.17 | |
| 13462.00 | 92.31 | 163.28 | 6978.86 | -6852.68 | 1372.02 | 6978.98 | 0.07 | 353839.65 | 1638325.80 | |
| 13507.00 | 91.47 | 163.86 | 6977.38 | -6895.81 | 1384.74 | 7023.93 | 2.27 | 353796.52 | 1638338.52 | |
| 13551.00 | 90.00 | 164.67 | 6976.82 | -6938.16 | 1396.67 | 7067.91 | 3.81 | 353754.17 | 1638350.45 | |
| 13596.00 | 88.95 | 165.63 | 6977.23 | -6981.65 | 1408.20 | 7112.90 | 3.16 | 353710.68 | 1638361.99 | |
| 13638.00 | 89.37 | 165.69 | 6977.84 | -7022.34 | 1418.60 | 7154.90 | 1.01 | 353669.99 | 1638372.39 | |
| 13683.00 | 89.93 | 166.31 | 6978.12 | -7066.00 | 1429.49 | 7199.90 | 1.86 | 353626.33 | 1638383.27 | |
| 13727.00 | 89.86 | 166.22 | 6978.20 | -7108.74 | 1439.93 | 7243.89 | 0.26 | 353583.59 | 1638393.72 | |
| 13772.00 | 89.72 | 165.65 | 6978.36 | -7152.40 | 1450.87 | 7288.89 | 1.30 | 353539.93 | 1638404.66 | |
| 13816.00 | 89.72 | 165.32 | 6978.58 | -7194.99 | 1461.90 | 7332.89 | 0.75 | 353497.34 | 1638415.68 | |
| 13861.00 | 90.28 | 165.41 | 6978.58 | -7238.53 | 1473.27 | 7377.89 | 1.26 | 353453.80 | 1638427.05 | |
| 13905.00 | 90.70 | 165.55 | 6978.20 | -7281.12 | 1484.30 | 7421.89 | 1.01 | 353411.21 | 1638438.09 | |
| 13950.00 | 90.84 | 165.09 | 6977.60 | -7324.65 | 1495.70 | 7466.88 | 1.07 | 353367.68 | 1638449.49 | |
| 13994.00 | 90.49 | 164.76 | 6977.09 | -7367.13 | 1507.14 | 7510.88 | 1.09 | 353325.20 | 1638460.93 | |
| 14039.00 | 90.63 | 165.35 | 6976.65 | -7410.61 | 1518.75 | 7555.87 | 1.35 | 353281.72 | 1638472.54 | |
| 14084.00 | 91.12 | 165.13 | 6975.96 | -7454.12 | 1530.21 | 7600.87 | 1.19 | 353238.21 | 1638484.00 | |
| 14128.00 | 90.56 | 166.27 | 6975.31 | -7496.75 | 1541.08 | 7644.86 | 2.89 | 353195.58 | 1638494.87 | LAST MWD SVY |
| 14200.00 | 89.38 | 166.55 | 6975.35 | -7566.73 | 1558.00 | 7716.85 | 1.68 | 353125.60 | 1638511.78 | PROJ TO BIT |

Targets

| Name | Description Dip. Dir. | TVD ft | +N/-S ft | +E/-W ft | Map Northing ft | Map Easting ft | ← Latitude → | | | ← Longitude → | | | | |
|--------------------------------------|--------------------------|-----------|-------------|-------------|-----------------------|----------------------|--------------|-----|--------|---------------|-----|-----|--------|---|
| | | | | | | | Deg | Min | Sec | Deg | Min | Sec | | |
| 3H NO GO PT1 -Circle (Radius: 50) | | 1260.00 | -3299.60 | 366.80 | 357392.731637320.59 | | 39 | 28 | 26.879 | N | 80 | 47 | 5.321 | W |
| 3H ST01 LP P1+200 | | 6940.00 | -835.67 | -209.52 | 359856.661636744.27 | | 39 | 28 | 51.148 | N | 80 | 47 | 13.120 | W |
| 3H ST01 PBHL P1 | | 6940.00 | -8349.36 | 1711.23 | 352342.971638665.02 | | 39 | 27 | 37.162 | N | 80 | 46 | 47.260 | W |

Casing Points

| MD | TVD | Diameter | Hole Size | Name |
|----|-----|----------|-----------|------|
| | | | | |

Annotation

| MD ft | TVD ft | |
|----------|-----------|---------------|
| 5852.00 | 5847.34 | MWD TIE ON |
| 5896.00 | 5891.21 | FIRST MWD SVY |
| 14128.00 | 6975.31 | LAST MWD SVY |
| 14200.00 | 6975.35 | PROJ TO BIT |

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Office of Oil and Gas
WV Dept. of Environmental Protection

WV Department of
Environmental Protection

Weatherford International Ltd.

DIRECTIONAL REPORT

Company: JAY BEE OIL & GAS INC.
Field: Tyler county, WV
Site: RPT 8
Well: 3H
Wellpath: ST-01

Date: 6/18/2013 Time: 07:57:38 Page: 6
Co-ordinate(NE) Reference: Well: 3H, Grid North
Vertical (TVD) Reference: SITE 1260.0
Section (VS) Reference: Well (0.00N,0.00E,165.66Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Formations

| MD | TVD | Formations | Lithology | Dip Angle | Dip Direction |
|----|-----|------------|-----------|-----------|---------------|
| | | | | | |

Received

APR 27 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

06/12/2015