

Commonwealth of Virginia

Department of Mines, Minerals, and Energy

Division of Gas and Oil

P.O. Drawer 159, Lebanon, VA 24266

Telephone: (276) 415-9700

Tracking Number: 2331

CNX Gas Company LLC Company:

File Number: RU-0594

Operations Name: CBM BF112A W/PL

Operation Type: Coalbed/Pipeline

Drilling Report Type:

Original

DRILLING REPORT (DGO-GO-14)

1. Drilling Data

Date drilling commenced: Drilling Contractor: Noah Horn 11/3/2009

Date drilling completed: 11/6/2009 Rig Type: Rotary & Cable

Driller's Total Depth (feet): 2353.00

Log Total Depth (feet): 2315.38 Coal Seam at Total **Pocahontas**

Depth:

2. Final Location Plat (as required by 4 VAC25-150-360.C.)

Permitted State Plane X: Final Plat State Plane X: 10469724.6600 10469725.5300

Permitted State Plane Y: 3570902.2000 Final Plat State Plane Y: 3570902.4800

Plat Previously Submitted Or... F

List of Attached Items:

Form DGO-GO-14-E

Page 1 of 4

Rev. 04/2009

| Description | FileName | |
|-------------|-----------------|--|
| PLAT | BF112A PLAT.pdf | |

3. Geological Data

Fresh Water At:

| Depth (in feet) | Rate | Unit of Measure |
|-----------------|------|-----------------|
| 24 | 1 | GPM |

Salt Water At:

| Depth (in feet | Rate | Unit of Measure |
|----------------|------|-----------------|
|----------------|------|-----------------|

Coal Seams:

List of Attached Items:

| Description | FileName | |
|-------------|------------------|--|
| EXHIBIT A | BF112A EXH A.pdf | |

Gas and Oil Shows:

List of Attached Items:

| Description | FileName | |
|-------------|----------------------|--|
| GAS SHOW | BF112A Gas Show.xlsx | |

R

4. Electric Logs (As required by 4VAC25-150-280.A)

List all logs run: CALIPER GAMMA DENSITY TEMP DEVIATION

Did logs disclose vertical locations of a coal

seam?

5. Survery Results (As required by 4VAC25-150-280.B.2)

List of Attached Items:

| Description | FileName |
|-------------|----------------|
| DEVIATION | BF112A DEV.pdf |

Form DGO-GO-14-E

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Rev. 04/2009

6. Casing and Tubing Program

List of Attached Items:

| Description | FileName | |
|-------------|--------------------|--|
| CASING | BF112A Casing.xlsx | |

7. Remarks

Use this space to note any conditions or occurrences, such as lost circulation, fishing jobs, junk left in hole, sidetracks, squeeze jobs, etc., not shown above. Include data and depth of condition/occurence.

| 8. Dril | lers | Log |
|---------|------|-----|
|---------|------|-----|

Compiled By: NOAH HORN

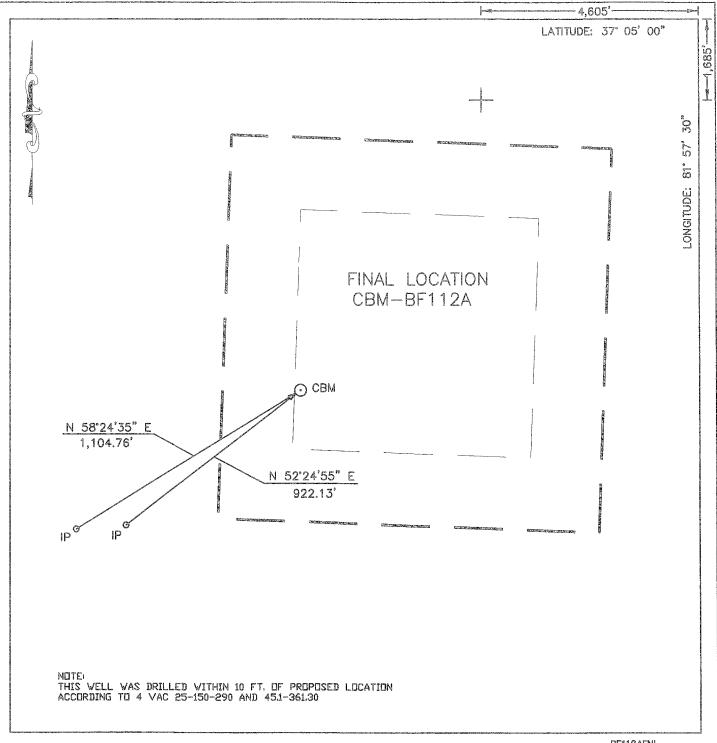
List of Attached Items:

| Description | FileName | |
|-------------|-----------------------|--|
| DRILL DATA | BF112A DRILL DATA.pdf | |

9. Comments

| 10. Signature | | | |
|---------------|---------------------|--------|----------|
| Permitee: | CNX Gas Company LLC | Date: | 1/4/2010 |
| Signed By: | Jerry Boothe | Title: | Manager |

| INTERNAL USE ONLY | | | |
|-------------------|-----------|-------|-----------|
| Submit Date: | 1/4/2010 | | |
| Status: | A | Date: | 2/26/2010 |
| Final PDF Date: | 2/26/2010 | | |



| WELL LOCATI | ON PLAT | BF112AFNL PGP39/163-742/163 |
|--|--|--------------------------------|
| 011/ 0 0 110 | lame or Number | CBM-BF112A |
| Tract No. GENT ROYALITY PARTNERS LLC ET AL. | | Scale: <u>1" = 400'</u> |
| County RUSSELL District NEW GARDEN | Quadrangle <u>HONAKER</u> | Date <u>11-09-09</u> |
| Elevation 2307.92' Well Elevation Determined By T | rig. Levels From CONSOL Inc. | BenchmorksALTH OF A |
| Well Coordinates N 290,024.28 E 986,737.46 | (Viginia State Plane — South | \$600 NAD' 27) |
| Well Coordinates N 3,570,902.48 E 10,469,724.66 | (Viginia State Plane — Sout | Zone + N40, 83) - 440 |
| This plat is a new plat; an updated plat | t; ora; | of plat - I - I - I - I |
| + Denotes the location of a well on United States Topo 24,000, latitude and longitude lines being represented | graphic Maps, scale 1 to \$\frac{x}{x}\$ by border lines as shown. | S ALLEN MITCHELL \$ |
| Form DGO-GO-7 | Ž | 11/11/09 |
| Rev. 9/91 Licensed Professional Engineer of | or Licensed Land Surveyor | (AllixoSeal) |
| | | AN 20KANDO. |

BF112A EXHIBIT A

HOLE NO = 09 CBM BF112A

STATE = VIRGINIA COUNTY = BUCHANAN

S ELEV = 2308

| N-COOR = | 290024 | E-COOR = | 986737 | | |
|-------------------------------|----------------------------|----------------------------|--------------------------|---|----------|
| STRATA ELEV (TOP) | STRATA FROM | DEPTH TO | STRATA THICK | SEAM CODE | COMMENTS |
| 2176.67 2175.97 | 131.20 | 131.90 195.80 | .70 63.90 | ALI | |
| 2112.07 | 131.90 195.80 | 197.10 | 1.30 | AL2 | |
| 2110.77 2005.27 | 197.10 302.60 304.90 | 302.60 304.90 465.70 | 105,50 2,30 160,80 | RA2 | |
| 2002.97 1842.17 | 465.70 | 467.80 497.00 | 2.10 29.20 | JBI | |
| 1840.07 1810.87 | 467.80 497.00 498.40 | 498.40 | 1.40 | JB3 | |
| 1809.47 1807.77 | 500.10 | 500.10 500.60 559.00 | 1.70 .50 58.40 | COAL | |
| 1807.27 1748.87 1748.47 | 500.60 559.00 559.40 | 559.40 761.20 | .40 .201.80 | Total Control of the | |
| 1546.67 1546.47 | 761.20 761.40 | 761.40 762.00 | 201.80 .20 .60 | *USI | |
| 1545.87 1545.67 | 762.00 762.20 | 762.20 762.20 788.70 | .20 .20 .26.50 | *COAL | |
| 1519.17 | 788.70 | 788.80 781.90 | .10 | *LC3 | |
| 1519.07 1515.97 | 788.80 791.90 794.70 | 791.90 794.70 934.90 | 3.10 2.80 140.20 | *LC4 | |
| 1513.17 1372.97 1372.37 | 934.90 935.50 | 935.50 936.10 | .60 .60 | *GC1 | |
| 1371.77 1370.97 | 936.10 936.90 | 936.90 | .80 .80 108.50 | *GC2 | |
| 1262.47 1261.97 | 1045.40 1045.90 | | .50 | *SEl | |
| 1241.77 1239.97 | 1066.10 1067.90 | 1067.90 1133.80 | 1.80 65.90 | *SE2 | |
| 1174.07 | 1133.80 | 1134.10 | . 30 | *LS1 | |
| 1173.77 1172.07 | 1134.10 1135.80 | 1135.80 1198.00 | 1.70 62.20 | *LS2 | |
| 1109.87 1107.97 | 1198.00 1199.90 | 1199.90 1248.60 | 1.90 48.70 | *LS3 | |
| 1059.27 1058.77 | 1248.60 1249.10 | 1249.10 1263.00 | .50 13.90 | *UHI | |
| 1044.87 1044.27 | 1263.00 1263.60 | | . 60 . 80 | *UH2 | |
| 1043.47 1040.77 | 1264.40 1267.10 | 1307.50 | 2.70 40.40 | *UH3 | |
| 1000.37 999.67 | 1307.50 1308.20 | 1308.20 1391.10 | .70 82.90 | *MHI | |
| 916.77 916.67 | 1391.10 1391.20 | 1391.20 1429.20 | .10 38.00 | *MH2 | |
| 878.67 875.77 | 1429.20 1432.10 | 1432.10 1450.00 | 2.90 17.90 | *P11 | |
| 857.87 857.17 | 1450.00 1450.70 | 1450.70 1505.60 | .70 54.90 | *P10 | |
| 802.27 | 1505.60 | 1507.30 | 1.70 | *LHI | |

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| | | | | BF112A |
|------------------|--------------------|-----------------------------|---------------|-------------------------|
| 800.57 798.77 | 1507.30 1509.10 | 1509.10 1511.30 | 1.80 2.20 | *LH2 |
| 796.57 | 1511.30 | 1542.40 | 31.10 | |
| 765.47 765.27 | 1542.40 1542.60 | 1542.60 1543.00 | . 20 . 40 | *COAL |
| 764.87 | 1543.00 | 1544.60 | 1.60 | *p91 |
| 763.27 714.97 | 1544.60 1592.90 | 15 9 2.90 1593.80 | 48.30 .90 | *P81 |
| 714.07 | 1593.80 | 1594.10 | .30 | |
| 713.77 713.47 | 1594.10 1594.40 | 1594.40 1595.80 | .30 1.40 | *COAL |
| 712.07 | 1595.80 | 1596.10 | .30 | *P82 |
| 711.77 | 1596.10 | 1605.00 | 8.90 | 4 m 7 f |
| 702.87 702.27 | 1605.00 1605.60 | 1605.60 1642.60 | .60 37.00 | *P71 |
| 665.27 | 1642.60 | 1643.30 | .70 | *COAL |
| 664.57 663.57 | 1643.30 1644.30 | 1644.30 1644.60 | 1.00 .30 | *COAL |
| 663.27 | 1644.60 | 1736.90 | 92.30 | |
| 570.97 570.77 | 1736.90 1737.10 | 1737.10 1737.50 | . 20 . 40 | *COAL |
| 570.37 | 1737.50 | 1737.90 | . 40 | *P72 |
| 569.97 569.77 | 1737.90 1738.10 | 1738.10 1738.90 | . 20 . 80 | *P72 |
| 568.97 | 1738.90 | 1763.50 | 24.60 | |
| 544.37 543.87 | 1763.50 1764.00 | 1764.00 1864.00 | .50 100.00 | *COAL |
| 443.87 | 1864.00 | 1864.50 | . 50 | *COAL |
| 443.37 380.07 | 1864.50 1927.80 | 1927.80 1927.90 | 63.50 .10 | *P51 |
| 379.97 | 1927.90 | 1955.20 | 27.30 | |
| 352.67 351.87 | 1955.20 1956.00 | 1956.00 2090.00 | .80 134.00 | *P52 |
| 217.87 | 2090.00 | 2091.40 | 1.40 | *P31 |
| 216.47 215.87 | 2091.40 2092.00 | 2092.00 2135.90 | .60 43.90 | *P32 |
| 171.97 | 2135.90 | 2135.90 | .90 | *P34 |
| 171.07 | 2136.80 | 2353.00 | 216.20 | Propresentation and the |
| | | | | BOTTOM HOLE |

COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO TOPOGRAPHY. GAMMA-CALIPER LOG FROM 0 TO 221.00 GAMMA-DENSITY LOG FROM 221.00 TO TD. NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION

Oil & Gas Show

| Formation | Top | Bottom | Thickness | IPF | Pressure | Hours |
|------------|--------|--------|-----------|-------------|----------|--------|
| | | | | (MCFD/BOPD) | | Tested |
| Lee/Norton | 791.9 | 1544.6 | 752.7 | | | |
| Pocahontas | 2090.0 | 2091.4 | 1.4 | | | |
| Total IPF | | | | NOT TAKEN | | |
| | · | · | | | | |

PLAN VIEW COMPU-LOG DEVIATION

INT: CONSOL ENERGY

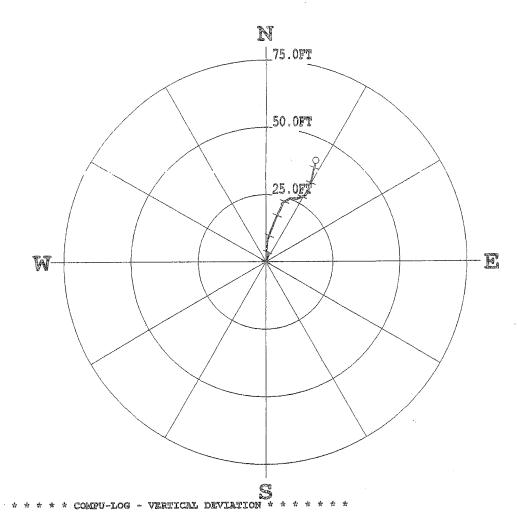
ATION:

I ID: CNX-09-BF-112A I OF LOG: 11/06/09 BE: 9136CH 1244 MAG DECL: -6.9

SCALE: 25 FT/IN

TRUE DEPTH: 2313.73 FT

AZIMUTH: 26.4
DISTANCE: 42.0 FT
+ = 300 FT INCR
= BOTTOM OF HOLE



LIENT : CONSOL ENERGY HOLE ID. : CNX-09-BF-112

TIELD OFFICE : BLUEFIELD DATE OF LOG : 11/06/09

ATA FROM : PROBE : 9136CH , 1244

AG. DECL : -6.900 DEPTH UNITS : FEET

OG: CNX-09-BF-112A_11-06-09_16-03_9136CH .10_0.00 2314.40 DEVI.log

| E DEPTH | TRUE DEPTH | NORTH DEV. | EAST DEV. | DISTANCE | azimuth | SANG S | ange |
|---------|------------|------------|-----------|----------|---------|--------|-------|
| 0.50 | 0.50 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10.00 | 10.00 | 0.00 | -0.00 | 0.0 | 355.2 | 0.0 | 269.2 |
| 20.00 | 20.00 | 0.00 | -0.00 | 0.0 | 308.3 | 0.0 | 14.0 |
| 30.00 | 30.00 | 0.01 | -0.01 | 0.0 | 307.2 | 0.1 | 31.4 |
| 40.00 | 40.00 | 0.04 | -0.00 | 0.0 | 358.6 | 0.2 | 29.2 |
| 50.00 | 50.00 | 0.08 | 0.03 | 0.1 | 17.0 | 0.3 | 32.4 |
| 60.00 | 60.00 | 0.11 | 0.05 | 0.1 | 22.4 | 0.2 | 31.4 |
| 70.00 | 70.00 | 0.16 | 0.08 | 0.2 | 27.6 | 0.4 | 37.4 |
| 80.00 | 80.00 | 0.20 | 0.12 | 0.2 | 31.1 | 0.3 | 41.7 |
| 90.00 | 90.00 | 0.27 | 0.17 | 0.3 | 32.6 | 0.5 | 34.5 |
| 20.00 | | A AP | A AA | n 1 | 30 1 | ስ ማ | 29 A |

| | ice : bluefi | ELD | DATE OF | ' LOG : 11, | /06/09 | | |
|---------------------------|---------------------------|----------------------|-----------------------|----------------------|---|-------------------------|------------------------|
| data from Mag. Decl | . : -6.9 | | probe Depth u | : 91: WITS : FEI | et . | 1244 | |
| rog: CMK- | 09-BF-112A_1 | 1-06-09_16-0 | 3_913 6CH 1 | 0_0.00_23: | 14.40_devi | l.log | |
| able depth 0.50 | TRUE DEPTH 0.50 | NORTH DEV. 0.00 | EAST DEV. 0.00 | Distance 0.0 | ATIMITH 0.0 | | EANGB 0.0 |
| 10.00 | 10.00 | 0.00 | ~0.00 | 0.0 | 0.0 355.2 308.3 307.2 358.6 17.0 22.4 27.6 31.1 | 0.0 | 269.2 |
| 20.00 30.00 | 20.00 30.00 | 0.00 0.01 | -0.00 -0.01 | 0.0 | 308.3 | 0.0 0.1 | 14.0 31.4 |
| ∳0.00 50.00 | 40.00 50.00 | 0.04 0.08 | -0.00 0.03 | 0.0 0.1 | 358.6 | 0.2 | 29.2 |
| 60.00 | 60.00 | 0.11 | 0.05 | 0.1 | 22.4 | 0.3 0.2 | 32.4 31.4 |
| 70.00 80.00 | 70.00 80.00 | 0.16 0.20 | 0.08 0.12 | 0.2 | 27.6 31 1 | 0.4 0.3 | 37.4 41.7 |
| 90.00 100.00 | 90.00 100.00 | 0.27 | 0.17 | 0.3 | 22.4 27.6 31.1 32.6 32.1 31.2 29.8 | 0.5 | 34.5 |
| 110.00 | 110.00 | 0.35 0.46 | 0.22 0.28 | 0.5 | 32.1 31.2 | 0.7 0.7 | 31.4 27.8 |
| 120.00 130.00 | 120.00 130.00 | 0.58 0.70 | 0.33 0.38 | 0.7 0.8 | 29.8 28.1 | | 21.9 |
| 140.00 150.00 | 139.99 | 0.83 | 0.43 | 0.9 | 27.0 | 0.8 | 24.7 |
| 160.00 | 149.99 159.99 | 0.99 1.14 | 0.48 0.53 | 1.1 | 26.0 25.1 | 0.9 | 17.5 20.5 |
| 170.00 180.00 | 169.99 179.99 | 1.28 1.45 | 0.58 0.63 | 1.4 1.6 | 24.5 | 0.9 | 17.6 |
| 190.00 | 189.99 | 1.61 | 0.68 | 1.8 | 0.0 0 | 0.9 1.0 | 16.0 14.6 |
| 200.00 210.00 | 199.99 209.99 | 1.77 1.94 | 0.71 0.73 | 1.9 2.1 | 22.7 21.7 20.7 | 0.7 1.3 | 8.7 10.4 |
| 220.00 230.00 | 219.98 229.98 | 2.12 2.20 | 0.76 | 2.2 | 19.6 | 1.0 | 6.7 |
| 240.00 | 239.98 | 2.32 | 0.7 <u>1</u> 0.70 | 2.3 2.4 | 17.8 16.9 | 1.0 1.0 | 2 82 .3 55.7 |
| 250.00 260.00 | 249.98 259.98 | 2.47 2.67 | 0.72 0.70 | 2.4 2.6 2.8 | 16.2 | 1.0 1.2 1.2 | 6.9 |
| 270.00 | 269.98 | 2.86 | 0.75 | 3.0 | 14.7 | 1.2 1.2 | 343.5 344.5 |
| 200.00 290.00 | 279.97 289.97 | 3.06 3.27 | 0.68 0.70 | 3.1 | 12.4 12.1 | 1.000 1.000 1.000 | 342.2 2.1 |
| 300.00 310.00 | 299.97 309.96 | 3.50 3.31 | 0.67 0.60 | 3.6 | 10.9 10.3 7.9 | 1.5 | |
| 320.00 | 319.96 | 3.45 | 0.48 | 3.5 | 7.9 | 1.1 1.4 | |
| 330.00 340.00 | 329.96 339.96 | 3.61 3.72 | 0.38 0.28 | 3.6 3.7 | 6.0 4.4 | 1.2 1.2 | |
| 350.00 360.00 | 349.95 | 3.95 | 0.25 | 4.0 | 3.6 | 1.5 | 9.8 |
| 370.00 | 359.95 369.95 | 4.18 4.42 | 0.25 0.28 | 4.2 | 3.4 | 1.3 | 360.0 4.0 |
| 380.00 390.00 | 379.95 389.94 | 4.67 4.74 | 0.23 0.33 | 4.7 | €.Q | | |
| 400.00 | 399.94 | 4.95 | 0.40 | 5.0 | 4.0 4.6 4.0 | 1.3 | 26.0 |
| 410.00 420.00 | 409.94 419.93 | 5.16 5.41 | 0.36 0.40 | 5.2 5.4 | 4.0 4.2 4.1 4.2 | 1.6 1.4 | 17.9 352.7 |
| 430.00 440.00 | 429.93 439.93 | 5.65 5.91 | 0.41 0.44 | 5.7 5.9 | 4.1 | 1.4 | 6.3 |
| 450.00 | 449.92 | 6.19 | 0.46 | 6.2 | 4.2 | 1.4 | 2.6 |
| 460.00 470.00 | 459.92 469.92 | 6.44 6.69 | 0.49 0.51 | 6.5 6.7 | 4.3 4.4 | 1.3 1.7 | 18.6 8.4 |
| 480.00 490.00 | 479.91 489.91 | 6.96 7.19 | 0.55 0.59 | 7.0 | 4.5 4.7 | | 14.2 8.4 |
| 500.00 | 499.91 | 7.45 | 0.61 | 7.5 | 4.7 | 1.7 | 350.2 |
| 510.00 520.00 | 509.90 519.90 | 7.70 7.94 | 0.67 0.71 | 7.7 8.0 | 4.9 5.1 | 1.3 1.4 | 17.3 14.7 |
| 530.00 540.00 | 529.90 539.90 | 8.17 8.40 | 0.77 0.82 | 8.2 8.4 | 5.4 5.6 | 1.4 | 11.4 |
| 550.00 | 549.89 | 8.64 | 0.89 | 8.7 | 5.9 | 1.6 | 17.9 13.4 |
| 560.00 570.00 | 559.89 569.89 | 8. 87 9.11 | 0.95 1.02 | 8.9 9.2 | 6.1 6.4 | 1.2 1.3 | 20.5 22.0 |
| 580.00 590.00 | 579.88 589.88 | 9.33 9.51 | 1.10 1. 1 5 | 9.4 9.6 | 6.7 | 1.4 | 12.9 |
| 600.00 | 599.88 | 9.68 | 1.22 | 9.8 | 6.9 7.2 | 1.7 | 37.8 20.8 |
| 610.00 620.00 | 609.87 619.87 | 9.91 10.15 | 1.30 1.36 | 10.0 10.2 | 7.5 7.7 | 1.3 1.6 | 12.6 13.7 |
| 630.00 640.00 | 629.87 639.86 | 10.41 10.68 | 1.44 1.55 | 10.5 | 7.9 8.3 | 1.6 | 13.5 |
| 650.00 | 649.86 | 11.01 | 1.65 | 10.9 11.1 | 8.5 | 2.0 1.8 | 33.9 5.2 |
| 660.00 670.00 | 659.85 669.85 | 11.31 11.58 | 1.77 1.88 | 11.4 11.7 | 8.9 9.2 | 1.7 1.5 | 26.0 24.8 |
| 680.00 690.00 | 679.84 689.84 | 11.82 | 2.00 | 12.0 | 9.6 | 1.6 | 21.0 |
| 700.00 | 699.83 | 12.10 12.39 | 2.12 2.24 | 12.3 12.6 | 9.9 10.3 | 1.8 1.6 | 25.0 29.4 |
| 710.00 720.00 | 709.83 719.82 | 12.68 12.98 | 2.35 2.48 | 12.9 13.2 | 10.6 10.8 | 1.9 1.7 | 21.0 16.5 |
| 730.00 | 729.82 | 13.26 | 2.60 | 13.5 | 11.1 | 1.7 | 23.0 |
| 740.00 750.00 | 739.81 749.81 | 13.55 13.82 | 2.70 2.81 | 13.8 14 .1 | 11.3 11.5 | 1.7 1.6 | 17.7 23.5 |
| 7 60 .00 770.00 | 759.81 769.80 | 14.06 14.36 | 2.92 3.00 | 14.4 14.7 | 11.7 11.8 | 1.5 2.0 | 24.6 18.5 |
| 780.00 | 779.80 | 14.52 | 3.06 | 14.8 | 11.9 | 1.5 | 55.3 |
| 790.00 800.00 | 789.79 7 9 9.79 | 14.67 14.92 | 3.14 3.25 | 15.0 15.3 | 12.1 12.3 | 1.6 1.4 | 15.5 31.8 |
| 810.00 820.00 | 809.79 819.78 | 15.18 15.41 | 3.31 | 15.5 15.8 | 12.3 | 1.8 | 10.3 |
| B30.00 | 829.78 | 15.62 | 3.53 | 16.0 | 12.7 | 1.3 | 22.1 16.5 |
| 840.00 850.00 | 839.78 849.77 | 15.05 16.06 | 3.63 3.73 | 16.3 16.5 | 12.9 13.1 | 1.3 1.4 | 41.3 30.1 |
| 860.00 870.00 | 859.77 869.77 | 16.30 | 3.82 | 16.7 | 13.2 | 1.5 | 25.7 |
| 880.00 | 879.77 | 16.52 16.75 | 3.92 4.01 | 17.0 17.2 | 13:3 13.5 | 1.4 1.4 | 29.3 24.6 |
| 890.00 ann nn | 889.76 200 75 | 16.97 | 4.12 | 17.5 | 13.7 | 1.4 | 18.0 |
| | | | | | | | |

| 950.00 970.00 980.00 990.00 990.00 900.00 910.00 910.00 950.00 970.00 990.00 |
|---|
| \$19.78 \$29.78 \$39.77 \$59.77 \$59.77 \$69.77 \$69.76 \$99.76 \$99.76 \$99.76 \$99.76 \$99.77 \$99.75 \$99.77 \$99.77 \$99.77 \$99.77 \$99.77 \$1019.70 \$1019.70 \$1019.70 \$1019.70 \$1019.70 \$1019.70 \$1019.70 \$1019.70 \$1019.70 \$1019.70 \$1019.70 \$1019.70 \$1019.70 \$1019.70 \$1019.69 \$1119.69 \$1119.69 \$1119.69 \$1119.69 \$1119.69 \$1119.69 \$1119.69 \$1119.69 \$1119.69 \$1119.69 \$1119.69 \$1119.69 \$1119.69 \$1119.69 \$1119.69 \$1119.59 \$119.59 \$11 |
| 19.19 18.35 18.57 18.99 19.15 19.38 19.59 |
| 3333322212233676690701258459532638087976063582397555481223367669070125845955555556666666677777888888999955554812288473882892397416444444455555555555556666666677777888888999955554812228813335786812111122258133578641211111111111111111111111111111111111 |
| \$0357025702478136925608912245689134792134578902246802579035702457924691368025679131566667777768668990000011112222222233331313479213455555555555666667777778888899999000011112222222333313313313333333333 |
| 679123578923568012207953671370336059388384605172735914838044925801997876655433212000 111233357892356801220795367137088999001111111111111111111111111111111 |
| 111.556725482992334275574591063588679 |
| 1531736046364073477120902663266297308547742300026150259833164252987550900433425027 26110594654083014701566640734036005971066832691502221344162270740992663266326632663266326632663222213344162222222222 |
| |
| |
| |

| | 1510 51 | e a 1740 | | | | | | |
|---|--|--|--|--|---|--|---|--|
| 550.00 | 1549.51 | 24.68 | 14.72 | 20.7 29.0 | 3v.0 | 1.5 | 28.8 | |
| 560.00 | 1559.51 | 24.84 | 14.93 15.08 | 29.0 29.2 | 32.V 32.1 | 1.3 | 40.4 | |
| 570.00 | 1569.51 1579.51 | 25.01 25.20 | 15.06 | 29.4 | 30.9 | 1.0 | 8.2 | |
| 580.00 | 1579.51 1589.50 1599.50 1609.50 | 25.20 25.31 | 15.18 | 29.5 | 31.0 | 1.2 | 50.5 | |
| 590.00 500.00 | 1599.50 | 25.45 | 15.33 | 29.7 | 31.1 | 1.3 | 94.2 | |
| | 1609.50 | 25.70 | 15.37 | 29.9 | 30.9 | 1.7 | 26.9 | |
| 510.00 520.00 | 1610 AG | 25.91 | | | 30.9 | 1.6 | 9.8 | |
| 530.00 | 1619.49 1629.49 1639.49 | 26.15 | 18 81 | 30.4 | 30.7 | 1.4 | 9.7 | |
| 540.00 | 1630 40 | 26.31 | 15 70 | 30.6 | 30.8 | 1.8 | 10.5 | |
| 350.00 | 1649.48 | 26.57 | 15.75 | 30.9 | 30.7 | 1.4 | 9.5 | |
| 550.00 | 1649.48 1659.48 1669.48 | 26.77 | 15.86 | 31.1 | 30.6 | 1.3 | 50.0 | |
| 570.00 | 1669.48 | 26.77 26.99 | 15.94 | 31.3 | 30.6 | 1.3 | 37.9 | |
| 580.00 | 1679.47 | 27.21 | 16.01 | 31.6 | 30.5 | 1.2 | 40.0 | |
| 390.00 | 1689.47 | 27.21 27.41 27.64 | 16.12 | 31.6 | 30.5 | 1.5 | 24.0 | |
| 700.00 | 1699.47 | 27 64 | 16.21 | 32.0 | 30.4 | 1.4 | 16.4 | |
| 710.00 | 1709.47 | 27.83 | 16.29 | 32.2 | 30.3 | 1.3 | 40.3 | |
| 720.00 | 1719.46 | 28.03 | 16.37 | 32.5 | 20 2 | 1.0 | 15.3 | |
| 730.00 | 1729.46 | 28.20 | 16.44 | 32.6 | 30.2 | 1.0 | 26.4 | |
| 740.00 | 1739.46 | 28.33 | 16.41 | 32.7 | 30.1 | 0.9 | 24.2 | |
| 750.00 | 1749.46 | 28.47 | 16.56 | 32.9 | 30.2 | 1.5 | 12.5 | |
| 760.00 | 1759.46 | 27.63 28.03 28.20 28.33 28.45 28.65 | 16.54 | 33.1 | 30.0 | 1.3 | 56.0 | |
| 770.00 | 1769.45 | 28.61 | 16.64 | 33.3 | 30.0 | 1.2 | 11.2 | |
| 780.00 | 1779.45 | 28.61 28.99 29.19 | 16.68 | 33.5 | 29.9 | 1.0 | 37.7 | |
| 790.00 | 1789.45 | 29.19 | 16.73 | 33.6 | 29.8 | 1.2 | 7.4 | |
| | 1799.45 | 29.37 | 16.81 | 33.8 | 29.8 | 1.5 | 6.2 | |
| 800.00 810.00 820.00 | 1799.45 1809.44 1819.44 | 29.57 | 16.75 | 34.0 | 29.5 | 1.3 | 29.0 | |
| 820.00 | 1819.44 | 29.69 | 16.92 | 34.2 | 29.7 | 1.8 | 12.9 | |
| 830.00 | 1819.44 1829.44 1839.43 1859.43 1869.43 1869.43 1869.42 1899.42 1909.42 | 27.21 27.64 27.63 28.03 28.20 28.23 28.65 28.65 28.65 28.37 29.57 29.57 29.57 29.57 29.57 29.57 | 15.51 15.51 15.75 15.76 15.96 16.12 16.29 16.37 16.37 16.37 16.37 16.37 16.37 16.37 16.37 16.37 16.37 16.37 17.23 17 | 34.4 | 200999999999966543210993222222222222222222222222222222222 | 1.2 | 63.8 | |
| | 1839.44 | 30.12 | 16.98 | 34.6 | 29.4 | 1.2 | 357.5 | |
| B50.00 | 1839.44 1849.43 | 30.31 | 17.05 | 34.8 | 29.4 | 1.2 | 39.7 | |
| 360.00 | 1859.43 | 30.52 | 17.09 | 35.0 | 29.2 | 1.2 | 8.5 | |
| | 1869.43 | 30.71 | 17.16 | 35.2 | 29.2 | 1.2 | 22.6 | |
| 380.00 | 1869.43 1879.43 | 30.91 | 17.21 | 35.4 | 29.1 | 1.0 | 14.6 | |
| 390.00 | 1889.42 | 31.08 | 17.23 | 35.5 | 29.0 | 1.0 | 3.2 | |
| 900.00 | 1899.42 | 31.26 | 17.26 | 35.7 | 28.9 | 1.2 | 13.6 | |
| 910.00 | 1899.42 1909.42 | 31.46 | 17.34 | 35.9 | 28.9 | 1.3 | 5.0 | |
| | 1919.42 | 31.66 | 17.28 | 36.1 | 28.6 | 1.1 | 39.7 | |
| 930.00 | 1919.42 1929.42 1939.41 | 31.83 | 17.36 | 36.3 | 28.6 | 1.2 | 334.1 | |
| 940.00 | 1919.42 1919.42 1939.41 1949.41 1959.41 1969.40 | 32.05 | 17.42 | 36.5 | 28.5 | 1.7 | 25.0 | |
| 950.00 | 1949.41 | 32.31 | 17.48 | 36.7 | 28.4 | 1.5 | 13.9 | |
| 960.00 | 1959.41 | 32.53 | 17.55 | 37.0 | 28.3 | 1.5 | 42.0 | |
| 970.00 | 1969.40 | 32.79 | 17.59 | 37.2 | 28.2 | 1.5 | 3.5 | |
| 980.00 | 1979.40 | 33.03 | 17.6 1 17.66 | 37.4 | 28.1 | 1.2 | 353.2 | |
| 990.00 | 1989.40 | 33.25 | 17.66 | 37.6 | 28.0 | 1.4 | 9.0 | |
| 000.00 | 1999.39 | 33.46 | 17.73 | 37.9 | 27.9 | 1.4 | 12.6 | |
| 010.00 | 2009.39 | 33.71 | 17.77 17.84 17.95 17.90 | 38.1 | 27.8 | 1.5 | 24.1 | |
| 020.00 | 2019.39 | 33.97 | 17.84 | 38.4 | 27.7 | | 5.2 | |
| 030.00 | 2029.38 | 34.13 | 17.95 | 38.6 | 27.7 | | 112.3 | |
| 040.00 | 2039.38 | 33.99 | | 38.4 | 27.6 | 0.7 | 238.5 | |
| 050.00 | 2049.38 | 34.04 | 17.91 | 38.5 | 27.8 | 1.0 | 10.3 | |
| 060.00 | 2059.38 | 34.23 | 17.96 | 38.7 | 27.7 | 1.1 | 10.3 | |
| :070.00 | 2069.38 2079.38 2089.37 | 34.41 | 17.99 | 36.6 | 27.6 | | 7.6 | |
| :080.00 | 2079.38 | 34.59 | 18.02 | 39.0 | 27.5 | 1.2 | 5.5 | |
| | 2089.37 | 44 PM | | | | 1.1 | 12.9 | |
| AN AN BI | | 34.77 | 18.03 | 39.2 | 27.4 | | ମ୍ବର ନ | |
| 100.00 | 2099.37 | 34.96 | 18.11 | 39.4 | 27.4 | 1.1 | 18.4 | |
| 110.00 | 2099.37 2109.37 | 34.96 35.15 | 18.11 18.13 | 39.4 39.5 | 27.4 27.3 | $\frac{1.1}{0.9}$ | 2.1 | |
| !110.00 !120.00 | 2099.37 2109.37 2119.37 | 34.96 35.15 35.32 | 18.11 18.13 18.18 | 39.4 39.5 39.7 | 27.4 27.3 27.2 | 1.1 0.9 1.2 | 2.1 14.0 | |
| !110.00 !120.00 !130.00 | 2099.37 2109.37 2119.37 2129.37 | 34.96 35.15 35.32 35.50 | 18.11 18.13 19.18 18.21 | 39.4 39.5 39.7 39.9 | 27.4 27.3 27.2 27.2 | 1.1 0.9 1.2 0.9 | 2.1 14.0 10.0 | |
| 110.00 120.00 130.00 140.00 | 2099.37 2109.37 2119.37 2129.37 2139.36 | 34.96 35.15 35.32 35.50 35.69 | 18.11 18.13 18.18 18.21 18.25 | 39.4 39.5 39.7 39.9 40.1 | 27.4 27.3 27.2 27.2 27.1 | 1.1 0.9 1.2 0.9 1.2 | 2.1 14.0 10.0 2.5 | |
| 1110.00 1120.00 1130.00 1140.00 1150.00 | 2099.37 2109.37 2119.37 2129.37 2139.36 2149.36 | 34.96 35.15 35.32 35.50 35.69 35.90 | 18.11 18.13 19.18 18.21 18.25 18.29 | 39.4 39.5 39.7 39.9 40.1 40.3 | 27.4 27.3 27.2 27.2 27.1 27.0 | 1.1 0.9 1.2 0.9 1.4 | 2.1 14.0 10.0 2.5 21.6 | |
| 2110.00 2120.00 2130.00 2140.00 2150.00 2160.00 | 2099.37 2109.37 2119.37 2129.37 2139.36 2149.36 2159.36 | 34.96 35.15 35.32 35.50 35.59 35.90 36.12 | 18.11 18.13 19.16 18.21 18.25 18.29 18.35 | 39.4 39.5 39.7 39.9 40.1 40.3 40.5 | 27.4 27.3 27.2 27.2 27.1 27.0 26.9 | 1.1 0.9 1.2 0.9 1.2 1.4 | 2.1 16.0 10.0 2.5 21.6 17.7 | |
| 1110.00 1120.00 1130.00 1140.00 1150.00 1160.00 | 2099.37 2109.37 2119.37 2129.37 2139.36 2149.36 2159.36 | 34.96 35.15 35.32 35.50 35.59 35.90 36.12 36.14 | 18.11 18.13 19.16 18.21 18.25 16.29 18.35 18.37 | 39.4 39.5 39.7 39.9 40.1 40.3 40.5 | 27.4 27.3 27.2 27.2 27.1 27.0 26.9 26.9 | 1.1 0.9 1.2 0.9 1.2 1.4 1.2 | 2.1 14.0 10.0 2.5 21.6 17.7 353.2 | |
| 1110.00 2120.00 2130.00 2140.00 2150.00 2160.00 2170.00 2180.00 | 2099.37 2109.37 2119.37 2129.37 2129.36 2149.36 2159.36 2169.36 2169.36 | 34, 96 35, 15 35, 32 35, 50 35, 69 35, 90 36, 12 36, 14 36, 17 | 18.11 18.13 19.16 10.21 18.25 18.25 18.35 18.37 18.34 | 39.4 39.5 39.7 39.9 40.1 40.3 40.5 40.5 | 27.4 27.3 27.2 27.2 27.1 27.0 26.9 26.9 | 1.1 0.9 1.2 0.9 1.2 1.4 1.2 0.9 | 2.1 16.0 10.0 2.5 21.6 17.7 353.2 236.7 | |
| 110.00 120.00 130.00 140.00 150.00 110.00 1170.00 1190.00 | 2099.37 2109.37 2119.37 2119.37 2129.36 2149.36 2159.36 2169.36 2179.36 | 34, 96 35, 15 35, 32 35, 50 35, 69 35, 90 36, 12 36, 14 36, 17 36, 15 | 18.11 18.13 19.18 18.21 18.25 18.29 18.35 18.37 18.34 18.33 | 39.4 39.5 39.7 39.9 40.1 40.5 40.5 40.6 | 27.4 27.3 27.2 27.2 27.1 27.0 26.9 26.9 26.9 | 1.1 0.9 1.2 0.9 1.2 1.4 1.2 0.9 0.7 | 2.1 16.0 10.0 2.5 21.6 17.7 353.2 236.7 | |
| 1110.00 1120.00 1130.00 1140.00 1150.00 1160.00 1170.00 1180.00 1190.00 | 2099.37 2109.37 2119.37 2129.37 2139.36 2149.36 2159.36 2169.36 2179.36 2199.36 | 34, 96 35, 15 35, 32 35, 50 35, 69 35, 90 36, 12 36, 14 36, 17 36, 15 36, 27 | 18.11 18.13 19.18 18.21 18.25 18.29 18.35 18.37 18.33 18.33 | 39.4 39.5 39.7 39.9 40.3 40.5 40.5 40.6 40.6 | 27.4 27.3 27.2 27.2 27.0 26.9 26.9 26.9 26.9 | 1.1 0.9 1.2 0.9 1.4 1.2 0.7 0.7 | 2.1 16.0 10.0 2.5 21.6 17.7 353.2 236.7 1.8 31.8 | |
| 1110.00 1120.00 1130.00 1140.00 1150.00 1160.00 1170.00 1190.00 1200.00 | 2099.37 2109.37 2119.37 2129.37 2139.36 2149.36 2159.36 2169.36 2179.36 2199.36 2199.36 | 34.96 35.15 35.32 35.50 35.69 35.90 36.12 36.14 36.17 36.17 36.27 | 18.11 18.13 19.10 10.21 18.25 18.35 18.35 18.37 18.33 18.33 | 39.4 39.5 39.7 39.1 40.3 40.5 40.5 40.6 40.6 | 27.4 27.3 27.2 27.2 27.0 26.9 26.9 26.9 26.6 26.6 | 1.1 0.9 1.2 0.9 1.4 1.2 0.9 0.7 0.5 1.0 | 2.1 16.0 10.0 2.5 21.6 17.7 353.2 236.7 1.8 31.8 | |
| 1110.00 1120.00 1130.00 1140.00 1150.00 1160.00 1170.00 1190.00 1210.00 | 2099.37 2109.37 2119.37 2119.37 2129.36 2149.36 2159.36 2169.36 2169.36 2199.36 2199.36 2209.36 | 34, 96 35, 15 35, 50 35, 50 35, 69 35, 90 36, 12 36, 14 36, 17 36, 15 36, 29 36, 51 | 18.11 18.13 19.12 10.21 16.29 18.35 18.37 18.33 19.33 19.33 | 39.4 39.5 39.7 39.9 40.3 40.5 40.5 40.6 40.6 40.6 | 27.4 27.3 27.2 27.1 26.9 26.9 26.9 26.6 26.6 26.7 | 1.1 0.9 1.2 0.9 1.4 1.2 0.9 0.7 0.5 1.0 | 2.1 16.0 10.0 2.5 21.6 17.7 353.2 236.7 1.8 31.8 1.7 64.0 | |
| 1110.00 1120.00 1130.00 1140.00 1150.00 1160.00 1170.00 1190.00 1210.00 1210.00 230.00 | 2099.37 2109.37 2119.37 2129.37 2129.36 2149.36 2159.36 2169.36 2179.36 2189.36 2209.36 2209.36 | 34, 96 35, 15 35, 50 35, 69 35, 90 36, 12 36, 17 36, 17 36, 27 36, 27 36, 51 36, 51 | 18.11 18.13 19.21 18.22 18.25 18.35 18.37 18.33 19.33 19.33 | 39.4 39.5 39.9 39.1 40.3 40.5 40.6 40.6 40.6 40.9 | 27.4 277.22 277.22 277.0 277.0 266.9 266.9 266.7 266.7 | 1.1 0.9 1.2 0.9 1.2 1.4 1.2 0.7 0.7 0.9 0.5 1.0 | 2.1 16.0 10.0 2.5 21.6 17.7 353.2 236.7 1.8 31.8 42.7 | |
| 1110.00 1120.00 1130.00 1140.00 1150.00 1160.00 1170.00 1190.00 1200.00 1210.00 1220.00 1240.00 | 2099.37 2109.37 2119.37 2119.36 2149.36 2159.36 2159.36 2169.36 2199.36 2209.36 2219.35 2219.35 | 34,96 35.15 35.50 35.50 35.90 36.12 36.14 36.15 36.27 36.27 36.39 36.51 36.75 | 18.11 18.13 19.21 18.22 18.29 18.35 18.37 18.33 18.33 18.33 18.33 | 39.4 39.5 39.7 39.1 40.3 40.5 40.6 40.6 40.6 40.6 40.6 | 27.4 277.2 2 | 1.1 0.9 1.2 0.9 1.4 1.2 0.9 0.7 0.9 0.5 1.0 7 | 2.1 14.0 10.0 2.5 21.6 353.2 236.7 31.8 31.3 642.7 63.9 | |
| 110.00 120.00 130.00 140.00 1150.00 2160.00 2170.00 1200.00 220.00 230.00 240.00 250.00 | 2099.37 2109.37 2119.37 2129.36 2149.36 2159.36 2169.36 2169.36 2179.36 2219.36 2219.36 2219.36 2219.35 2229.35 | 34, 96 35, 15 35, 50 35, 69 35, 90 36, 12 36, 17 36, 17 36, 27 36, 39 36, 51 36, 75 36, 75 | 18.11 18.13 19.12 18.22 18.25 18.35 18.37 18.33 18.33 18.33 18.33 18.44 | 39.4 39.5 39.9 39.9 40.3 40.5 40.6 40.6 40.6 40.6 41.1 41.2 | 27.4.3 277.2.1.0 277.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2 | 1.1 0.9 1.2 0.9 1.4 1.2 0.9 0.7 0.5 1.0 0.7 | 2.1 14.0 10.0 2.5 21.6 17.7 353.2 236.7 1.8 31.8 1.7 64.0 63.9 67.2 | |
| 1110.00 1120.00 1130.00 1140.00 1150.00 1160.00 1190.00 1200.00 1210.00 1210.00 1240.00 1250.00 1250.00 | 2099.37 2109.37 2119.37 2119.37 2129.36 2149.36 2159.36 2169.36 2169.36 2219.36 2219.36 2219.35 2229.35 2229.35 | 34.96 35.15 35.50 35.50 35.90 36.12 36.14 36.17 36.27 36.39 36.52 36.75 36.99 | 18.11 18.13 19.12 18.225 18.337 18.337 18.333 18.333 18.333 18.447 18.447 18.447 | 39.4 39.5 39.7 39.1 40.5 40.5 40.6 40.6 40.6 41.1 41.4 | 27.4.3 277.2.2.1 2777.2.9 2.9.9.9 2.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6 | 1.1 0.9 1.2 0.9 1.4 1.2 0.9 0.7 0.5 1.0 0.7 0.7 0.9 | 2.1 14.0 10.0 21.6 17.7 353.2 236.7 1.8 1.7 64.0 42.7 63.9 67.2 | |
| 110.00 120.00 130.00 2150.00 2160.00 2170.00 2160.00 220.00 220.00 230.00 240.00 250.00 220.00 220.00 | 2099.37 2109.37 2119.37 2129.37 2129.36 2149.36 2159.36 2179.36 2179.36 22199.36 2209.36 2219.35 2229.35 2229.35 2229.35 | 34.96 35.15 35.50 35.50 35.90 36.12 36.17 36.27 36.55 36.75 36.89 36.87 36.99 37.03 | 18.11 18.13 19.22 16.22 18.33 18.33 18.33 18.33 18.33 18.33 18.33 18.33 18.35 18.35 18.35 | 39.4 39.5 39.1 39.1 39.1 39.1 40.5 40.5 40.1 41.4 41.4 | 277.2210999988777666666666666666666666666666666 | 1.1 0.9 1.2 0.9 1.2 1.4 1.2 0.7 0.7 0.9 0.7 0.8 0.7 | 2.1 14.0 10.0 2.5 21.7 353.2 236.7 1.8 31.8 42.7 64.0 42.7 63.9 2106.7 | |
| 1110.00 1120.00 1130.00 1140.00 1150.00 1160.00 1170.00 1190.00 1200.00 1210.00 1220.00 1240.00 1250.00 1260.00 1270.00 1280.00 | 2099.37 2109.37 2119.37 2129.37 2129.36 2149.36 2159.36 2169.36 2199.36 22199.36 2209.36 2219.35 2229.35 2229.35 2229.35 2229.35 2229.35 | 34, 96 35, 15 35, 50 35, 69 35, 90 36, 12 36, 15 36, 27 36, 39 36, 75 36, 75 36, 99 37, 03 37, 07 | 18.11 18.13 19.21 18.225 18.337 18.337 18.337 18.337 18.337 18.337 18.444 18.454 18.50 18.454 | 39.4 39.5 39.1 39.1 39.1 40.3 40.5 40.6 40.6 41.1 41.4 41.4 | 2777.1099996877766655 2222222222222222222222222222222 | 1.1 0.9 1.2 0.9 1.4 1.2 0.7 0.5 1.0 7 0.5 1.0 0.7 | 2.1 14.0 10.0 2.5 21.6 17.7 353.2 236.7 1.8 1.7 64.0 63.9 67.2 106.7 29.9 | |
| 1110.00 1120.00 1130.00 1140.00 1150.00 1160.00 1170.00 1180.00 1200.00 1200.00 1210.00 1220.00 1240.00 1250.00 1270.00 1280.00 1270.00 1280.00 1290.00 | 2099.37 2109.37 2119.37 2129.36 2149.36 2159.36 2169.36 2169.36 2199.36 2219.36 2219.35 2219.35 2219.35 2219.35 2239.35 2249.35 2259.35 2269.35 | 34, 96 35, 15 35, 50 35, 59 35, 90 36, 12 36, 15 36, 27 36, 27 36, 51 36, 75 36, 75 36, 99 37, 07 37, 20 | 18.11 18.13 19.225 18.225 18.337 18.337 18.337 18.337 18.337 18.337 18.444 18.450 18.450 18.450 18.450 18.450 | 39.4 39.5 39.9 39.1 40.3 40.5 40.6 40.6 41.2 41.4 41.4 41.6 | 2777 | 1.1 0.9 1.2 0.9 1.4 1.2 0.9 0.7 0.5 1.0 0.7 0.7 0.5 1.0 0.9 | 2.1 14.0 10.0 2.5 21.6 17.7 353.2 236.7 1.8 31.8 1.7 64.0 42.9 67.2 106.2 106.2 106.9 | |
| 110.00 1120.00 1130.00 1140.00 1150.00 1160.00 1170.00 1190.00 1200.00 1200.00 1210.00 120.00 1210.00 1250.00 1250.00 1260.00 1270.00 1280.00 1280.00 1290.00 1290.00 | 2099.37 2109.37 2119.37 2129.36 2149.36 2159.36 2169.36 2179.36 2199.36 2219.36 2219.36 2219.35 2229.35 2239.35 2239.35 2239.35 2239.35 2249.35 2259.35 2269.35 | 34, 96 35, 15 35, 50 35, 59 35, 90 36, 12 36, 14 36, 17 36, 27 36, 27 36, 52 36, 75 36, 99 37, 03 37, 07 37, 20 37, 31 | 18.11 18.13 19.225 18.225 18.337 18.337 18.337 18.337 18.337 18.337 18.354 18.444 18.444 18.444 18.444 18.444 18.444 | 39.57.9.1.3.5.5.6.5.6.8.9.0.1.2.4.4.6.6.1.1.4.4.1.4.1.4.4.1.4.1.4.4.1.4.1 | 2777776665556 22222222222222222222222222 | 1.1 0.2 0.2 1.4 1.2 0.9 0.5 1.0 0.5 1.0 0.5 1.5 0.5 1.5 0.5 1.5 0.5 1.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0 | 2.1 14.0 10.0 2.5 21.6 17.7 353.2 236.7 1.8 31.8 1.7 64.0 42.7 667.2 106.2 106.2 106.2 106.3 | |
| 1110.00 1120.00 1130.00 1140.00 1150.00 1160.00 1170.00 1180.00 1200.00 1200.00 1210.00 1220.00 1240.00 1250.00 1270.00 1280.00 1270.00 1280.00 1290.00 | 2099.37 2109.37 2119.37 2129.36 2149.36 2159.36 2169.36 2169.36 2199.36 2219.36 2219.35 2219.35 2219.35 2219.35 2239.35 2249.35 2259.35 2269.35 | 34, 96 35, 15 35, 50 35, 59 35, 90 36, 12 36, 15 36, 27 36, 27 36, 51 36, 75 36, 75 36, 99 37, 07 37, 20 | 18.11 18.13 19.225 18.225 18.337 18.337 18.337 18.337 18.337 18.337 18.444 18.450 18.450 18.450 18.450 18.450 | 39.4 39.5 39.9 39.1 40.3 40.5 40.6 40.6 41.2 41.4 41.4 41.6 | 2777 | 1.1 0.9 1.2 0.9 1.4 1.2 0.9 0.7 0.5 1.0 0.7 0.7 0.5 1.0 0.9 | 2.1 14.0 10.0 2.5 21.6 17.7 353.2 236.7 1.8 31.8 1.7 64.0 42.9 67.2 106.2 106.2 106.9 | |

Well: BF112A

Casing & Tubing Program

| | Casing | Casing | Hole | Cement | Ceme | nted | Date | Packers or |
|-----------------------|---------|----------|--------|---------------|--------|------|----------|--------------|
| | | Interval | Size | used in cu/ft | to Sur | face | Cemented | Bridge Plugs |
| | | | | | Yes | No | | |
| Conductor | 13 3/8" | 23 | 15" | | | Χ | 11/3/09 | |
| Surface | 7" | 211.4 | 8 7/8" | 90 | Χ | | 11/4/09 | Basket@88 |
| Water Protection | 4 1/2" | 2166.11 | 6 1/2" | 341.6 | Χ | | 11/6/09 | |
| Coal Protection | 4 1/2" | 2166.11 | 6 1/2" | 341.6 | Χ | | 11/6/09 | |
| Other Casing & Tubing | | | | | | | | |
| Other Casing & Tubing | | | | | | | | |
| Liners | | | | | | | | |

COMPANY CNX GAS COLLC

HOLE BF-112-A

RIG #: 40

LOCATION: BEE HIVE HOLW

DATE STARTED: 11/3/2009

DATE COMPLETED: 11/6/2009

ELECTRIC LOGGED: YES

GROUTED: YES

| The state of the state of | 1 500 50 | | | |
|---------------------------|-----------|------|----|------------------------------|
| DEPTH | THICKNESS | | | STRATA |
| FROM | ТО | FT | | DESCRIPTION, VOIDS ETC. |
| | 0 | 23 | 23 | OVERBURDEN |
| | 23 | 30 | 7 | SAND |
| | 30 | 60 | 30 | SAND/SANDY SHALE |
| | 60 | 90 | 30 | SANDY SHALE |
| | 90 | 120 | 30 | SANDY SHALE/COAL/SANDY SHALE |
| Yan | 20 | 150 | 30 | SANDY SHALE |
| 1 | 50 | 180 | 30 | SANDY SHALE |
| Ý | 80 | 210 | 30 | SANDY SHALE/COAL/SANDY SHALE |
| 2 | 10 | 230 | 20 | SANDY SHALE |
| 2 | :30 | 248 | 18 | SAND |
| 2 | 48 | 278 | 30 | SAND/SANDY SHALE/COAL |
| 2 | .78 | 308 | 30 | SANDY SHALE/COAL/SANDY SHALE |
| 3 | 808 | 338 | 30 | SANDY SHALE |
| 3 | :38 | 368 | 30 | SANDY SHALE/SAND |
| 3 | 88 | 398 | 30 | SAND |
| 3 | 98 | 428 | 30 | SAND/SANDY SHALE |
| 4 | 28 | 458 | 30 | SANDY SHALE |
| 4 | 58 | 488 | 30 | SANDY SHALE/COAL/SANDY SHALE |
| 4 | 88- | 518 | 30 | SANDY SHALE |
| 5 | 518 | 548 | 30 | SAND/SHALE/COAL |
| 5 | 548 | 578 | 30 | SAND/SHALE/COAL |
| چې م | 78 | 608 | 30 | SAND/SHALE |
| 6 | 608 | 638 | 30 | SAND/SHALE/COAL |
| 6 | 38 | .668 | 30 | SAND/SHALE |
| | 668 | 698 | | SAND/SHALE/COAL |
| | 98 | 728 | | SAND/SHALE |
| | 728 | 758 | 30 | SAND/SHALE |
| | '58 | 788 | | SAND/SHALE/COAL |
| | '88 | 818 | | SAND/SHALE/COAL |
| | 318 | 848 | | SAND/SHALE |
| | 348 | 878 | | SAND/SHALE |
| | 378 | 908 | | SAND/SHALE |
| | 908 | 938 | | SAND/SHALE/COAL |
| | 938 | 968 | | SAND/SHALE/COAL |
| | 968 | 998 | | SAND/SHALE |
| S |)98 | 1028 | 30 | SAND/SHALE |

| 1028 | 1063 | 35 SAND/SHALE/COAL |
|----------------|------|---|
| 1063 | 1093 | 30 SAND/SHALE/COAL |
| 1093 | 1123 | 30 SAND/SHALE |
| 1123 | 1153 | 30 SAND/SHALE/COAL |
| 1153 | 1183 | 30 SAND/SHALE/COAL |
| 1183 | 1213 | 30 SAND/SHALE/COAL |
| 1213 | 1243 | 30 SAND/SHALE |
| 1243 | 1273 | 30 SAND/SHALE/COAL |
| 1273 | 1303 | 30 SAND/SHALE/COAL |
| 1303 | 1333 | 30 SAND/SHALE/COAL |
| 1333 | 1363 | 30 SAND/SHALE |
| 1363 | 1393 | 30 SAND/SHALE/COAL |
| 1393 | 1423 | 30 SANDY SHALE/COAL/SANDY SHALE |
| 1423 | 1453 | 30 SANDY SHALE/COAL/SANDY SHALE |
| 1453 | 1483 | 30 SANDY SHALE/COAL/SANDY SHALE |
| 1483 | 1513 | 30 SANDY SHALE/COAL/SANDY SHALE |
| 1513 | 1543 | 30 SANDY SHALE |
| 1543 | 1573 | 30 SANDY SHALE/COAL/SANDY SHALE |
| 1573 | 1603 | 30 SANDY SHALE |
| 1603 | 1633 | 30 SANDY SHALE/COAL/SANDY SHALE |
| 1633 | 1663 | 30 SANDY SHALE |
| 1663 | 1693 | 30 SANDY SHALE |
| 1693 | 1723 | 30 SANDY SHALE/COAL/SANDY SHALE |
| 1723 | 1753 | 30 SANDY SHALE/COAL/SANDY SHALE |
| 1753 | 1783 | 30 SANDY SHALE |
| 1783 | 1813 | 30 SANDY SHALE |
| 1813 | 1843 | 30 SANDY SHALE |
| 1843 | 1873 | 30 SANDY SHALE/COAL/SANDY SHALE |
| 1873 | 1903 | 30 SANDY SHALE |
| 1903 | 1933 | 30 SANDY SHALE/COAL/SANDY SHALE |
| 1933 | 1963 | 30 SANDY SHALE |
| 1963 | 1993 | 30 SANDY SHALE |
| 1993 | 2023 | 30 SANDY SHALE/COAL/SANDY SHALE |
| 2023 | 2053 | 30 SANDY SHALE/COAL/SANDY SHALE |
| 2053 | 2083 | 30 SANDY SHALE/COAL/SANDY SHALE |
| 2083 | 2093 | 10 SANDY SHALE |
| 2093 | 2095 | 2 POCA-3/COAL |
| 2095 | 2113 | 18 SAND |
| 2113 | 2143 | 30 SAND/COAL/SAND |
| 2143 | 2173 | 30 SAND/COAL/SANDY SHALE |
| 2173 | 2203 | 30 SANDY SHALE |
| 2203 | 2233 | 30 SANDY SHALE/COAL/SANDY SHALE |
| 2233 | 2263 | 30 SANDY SHALE |
| 2263 | 2293 | 30 SAND/SHALE/COAL |
| 2293 | 2323 | 30 SAND/SHALE |
| 2323 | 2353 | 30 SAND/SHALE/RED SHALE |
| Com V time Vel | | we will there is a comment of the State Count of the State Count of the State Count |

2353' TOTAL DEPTH 23' OF 13 3/8" CASING 211.4' OF 7" CASING 2166.11' OF 4 1/2" CASING