

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: 2306

Company: CNX Gas Company LLC

File Number: BU-4275

Operations Name: CBM B18A W/PL

Operation Type: Coalbed/Pipeline

**Drilling Report Type:** Original

Original

#### **DRILLING REPORT (DGO-GO-14)**

#### 1. Drilling Data

Date drilling commenced: 9/30/2009 Drilling Contractor: NOAH HORN

Date drilling completed: 10/8/2009 Rig Type: Rotary ← Cable

Driller's Total Depth (feet): 2442.50

Log Total Depth (feet): 2416.54 Coal Seam at Total Pocahontas

Depth:

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

Permitted State Plane X: 10461791.2300 Final Plat State Plane X: 10461783.3300

Permitted State Plane Y: 3644886.2700 Final Plat State Plane Y: 3644884.1300

Plat Previously Submitted Or...

List of Attached Items:

Form DGO-GO-14-E

Page 1 of 4

Rev. 04/2009

Description	FileName
PLAT	B18A PLAT.pdf

### 3. Geological Data

Fresh Water At:

Depth (in feet)	Rate	Unit of Measure
1873	damp	

Salt Water At:

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

Coal Seams:

List of Attached Items:

Description	FileName
EXHIBIT A	B18A EXH A.pdf

Gas and Oil Shows:

List of Attached Items:

Description	FileName
GAS SHOW	B18A Gas Show.xlsx

### 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	B18A DEV.pdf

R

Form DGO-GO-14-E

Page 2 of 4

Rev. 04/2009

#### 6. Casing and Tubing Program

List of Attached Items:

Description	FileName
CASING	B18A 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. D	ril	lers	Log
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Compiled By: NOAH HORN

List of Attached Items:

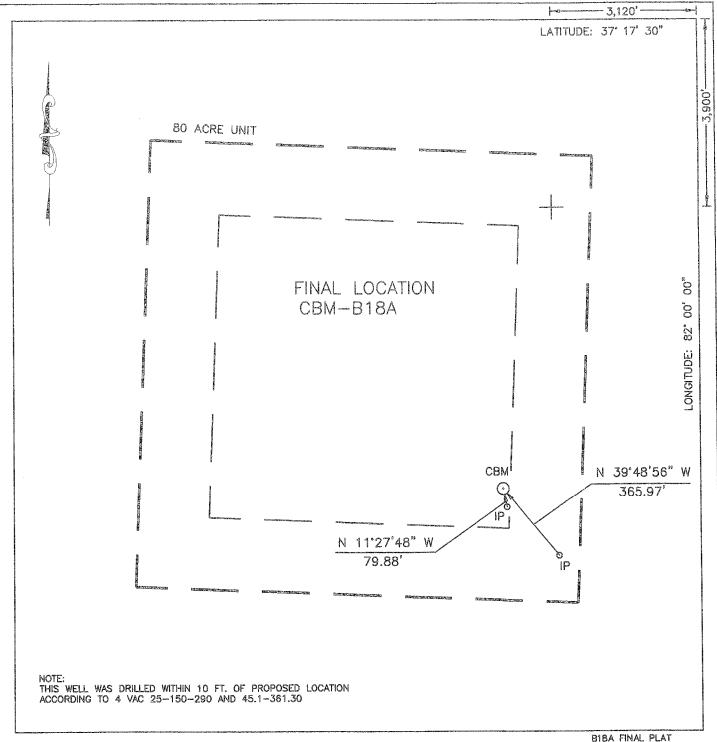
Description	FileName
DRILL DATA	B18A DRILL DATA.pdf

#### 9. Comments

10. Signature			
Permitee:	CNX Gas Company LLC	Date:	12/28/2009
Signed By:	Jerry Boothe	Title:	Manager

INTERNAL USE	ONLY		
Submit Date:	12/28/2009		
Status:	A	Date:	1/4/2010
Final PDF Date:	1/4/2010		

Rev. 04/2009



	WELL LOCA	TION PLAT		B18A FINAL F 1N20/120-71	
Company <u>CNX Gas Company</u>	LLC We	ll Name or Number	•	V-B18A	400'
Tract No. <u>BUCHANAN RE</u>	ALITY CO., LLC		Sc	· (10)	<u> 400'</u>
County <u>BUCHANAN</u> D	istrict <u>GARDEN</u>	Quadrangle	GRUNDY	_ Date_ <u>10-(</u>	08-09
Elevation <u>2287.57'</u>	Well Elevation Determined B	y Trig. Levels From C	ONSOL Inc. Bench	amorks TH	May .
Well Coordinates N 364.0	004.17 E 978,796.68	(Viginia State Pla	one - South Zoo	NAD' 27	f La
Well Coordinates N 3,644	,884.13 E 10,461,783.33	(Viginia State Pla	one – South Port	e///_NAD/_83	h Ch
This plat is a new plat	; an updated	plat	; or a file of		1 X 2 3
Denotes the location	of a well on United States To	opographic Maps, scal	e 1 to 🕏 🖰 ALI	EN MITCH	TELL 5
+ 24,000, latitude and	longitude lines being represen	ted by border lines a	s shọwn:‱or a fib	<b>ամե. գհետ</b> . 0022	289 }
Form DG0-G0-7		CONTROL OF THE SECOND	<u> </u>	_/0//5/09	) }
Rev. 9/91	Licensed Professional Engine	er or Licensed Land S	Surveyor (Affix	( Seal)	A COL
				SURV	TANK TO THE PARTY OF THE PARTY

#### B18A EXHIBIT A

HOLE NO = 09 CBM B18A

STATE = VIRGINIA COUNTY = BUCHANAN

S ELEV = 2292

N-COOR =	364006	E-COOR =	978805		
STRATA ELEV (TOP) 2120.57 2119.77	STRATA FROM 167.00 167.80	DEPTH TO 167.80 200.10	STRATA THICK .80 32.30	SEAM CODE COAL	COMMENTS
2087.47	200.10	200.90	. 80	HGI	
2086.67 1961.47 1961.07	200.90 326.10 326.50	326.10 326.50 328.20	125.20 .40 1.70	COAL	
1959.37 1959.07	328.20 328.50	328.50 328.90	.30 .40	COAL	
1958.67 1958.07	328.90 329.50	329.50 342.70	.60 13.20	COAL	
1944.87 1944.67	342.70	342.90	20	COAL	
1944.67 1939.67 1938.67	342.90 347.90 348.90	347.90 348.90 363.90	5.00 1.00 15.00	SDI	
1923.67 1922.87	363.90	364.70	. 80	SD2	
1920.57 1919.87	364.70 367.00 367.70	367.00 367.70 403.80	2.30 .70 36.10	COAL	
1883 77	403.80 404.10	404.10	. 30	COAL	
1881.87	405.70	405.70 406.30	1.60	SD3	
1881.27 1809.37	406.30 478.20	478.20 478.40	71.90 .20	LBI	
1809.17 1755.87	478.40 531.70	531.70 531.90	53.30 .20	LB2	
1755.67 1611.57	531.90 676.00	676.00 678.20	144.10 2.20	KN2	WITHIN 755 FT
1609.37 1495.67	678.20 791.90	791.90 792.10	113.70 .20	AL2	OF OLD WORKS
1495.47 1494.57	792.10 793.00	793.00 793.20	. 90 . 20	COAL	
1494.37 1418.97	793.20 868.60	868.60 868.90	75.40 .30	COAL	
1418.67 1417.17	868.90 870.40	870.40 870.70	1.50 1.30	COAL	
1416.87 1414.87	870.70 872.70	872.70 872.90	2.00 .20		
1414.67	872.90	873.70	. 80	COAL	
	873.70 874.90	874.90 882.90	1,20 8.00	COAL	
1404.67 1403.07	882.90 884.50	884.50 1000.80	1.60 116.30	RAZ	
1286.77 1285.77	1000.80 1001.80	1001.80 1027.00	1.00 25.20	JB1	
1260.57	1027.00	1027.80	. 80	JB3	
1259.77 1225.57	1027.80 1062.00	1062.00 1063.90	34.20 1.90	T2	
1223.67 1084.87 1084.77	1063.90 1202.70 1202.80	1202.70 1202.80 1237.60	138.80 .10 34.80	*US1	

Page 1

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B18A
                                          .10
97.90
1049.97
            1237.60
                          1237.70
                                                          *COAL
            1237.70
1335.60
1049.87
                          1335.60
                                             .3Õ
 951.97
                          1335.90
                                                          *GC2
             1335.90
                                             .50
 951.67
                          1336.40
 951.17
            1336.40
                          1336.60
                                                          *COAL
 950.97
            1336.60
                          1407.90
                                          71.30
 879.67
            1407.90
1408.70
                          1408.70
                                            .80
                                                          *SE2
 878.87
767.37
767.17
718.87
                          1520.20
                                         111.50
            1520.20
1520.40
1568.70
1569.10
1605.00
                          1520.40
                                            .20
                                                          *UHI
                          1568.70
                                          48.30
                          1569.10
1605.00
                                             .40
                                                          *UH2
 718.47
                                          35.90
 682.57
                          1606.10
                                           1.10
                                                          *MH1
 681.47
575.97
             1606.10
                                         105.50
                          1711.60
            1711.60
1712.80
1715.80
1756.30
1757.70
1776.00
                          1712.80
1715.80
                                                          *P11
                                          1.20
                                           3.00
 574.77
                                                          *P10
 571.77
531.27
529.87
                         1756.30
1757.70
1776.00
                                          40.50
                                          1.40
                                                          *LH3
                                          18.30
 511.57
                                          .20
39.30
                          1776.20
                                                          *P91
 511.37
472.07
            1776.20
                          1815.50
            1815.50
1816.90
                          1816.90
                                           1.40
                                                          *P92
                         1891.40
1893.10
2055.20
2056.00
 470.67
                                          74.50
            1891.40
1893.10
2055.20
 396.17
                                        1.70
162.10
                                                          *P81
 394.47
 232.37
                                             .80
                                                          *COAL
 231.57
             2056.00
                          2057.60
                                           1.60
 229.97
                          2058.10
                                            .50
             2057.60
                                                          *P52
             2058.10
                                          26.20
 229.47
                          2084.30
                          2087.70
2165.90
2169.80
             2084.30
                                           3.40
 203.27
                                                          *P41
            2087.70
2165.90
2169.80
2205.10
 199.87
                                          78.20
                                          3.90
35.30
 121.67
                                                          *P3
                                                                     WITHIN 1961 FT
                          2205.10
2205.30
 117.77
                                                                     OF OLD WORKS
  82.47
82.27
                                           .20
5.90
                                                          *P21
             2205.30
                          2211.20
  76.37
            2211.20
2211.30
                          2211.30
                                             .10
                                                          *P22
                                         230.70
   76.27
                          2442.00
                                                           BOTTOM HOLE
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COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO GAS WELL'S PROXIMITY TO GRAPEVINE BRANCH.

GAMMA-CALIPER LOG FROM 0 TO 221.00

GAMMA-DENSITY LOG FROM 221.00 TO TD.

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION

Well: **B18A** 

## Oil & Gas Show

Formation	Top	Bottom	Thickness	IPF	Pressure	Hours
				(MCFD/BOPD)		Tested
Lee/Norton	1605.0	1893.1	288.1			
Pocahontas	2084.3	2169.8	85.5			
Total IPF			0	NOT TAKEN		

# PLAN VIEW COMPU-LOG DEVIATION

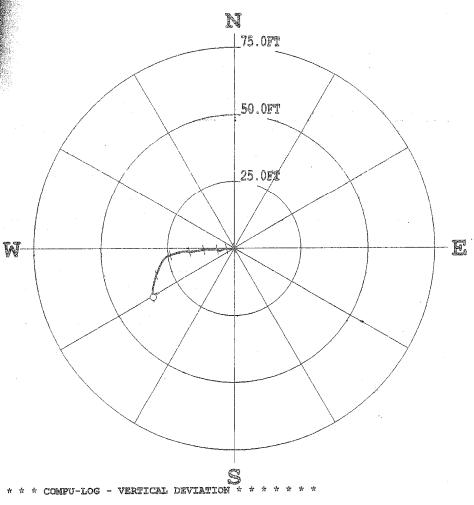
THE CONSOL ENERGY

07 CNX-09-B-18A 07 LOG: 10/08/09 12 0136CH 1244 MAG DECL: -6.9

SCALE: 25 FT/IN

TRUE DEPTH: 2415.39 FT

AZIMUTH: 239.2 DISTANCE: 35.3 FT + = 300 FT INCR O = BOTTOM OF HOLE



CLIENT	: CONSOL ENERGY	HOLE ID.	:	CNX-09-B-16A
	: BLUEFIELD	DATE OF LOG	:	10/08/09
DATA FROM	•	PROBE	:	9136CH , 1244
MAG. DECL.	-6.900	DEPTH UNITS	:	PELT
	3-18A 10-08-09 07-08	9136CH .10 0.00	24	116.00 DEVI.log

	200	420					
ABLE 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
1.0.00	10.00	-0.01	-0.00	0.0	202.1	0.1	175.3
20.00	20.00	-0.02	-0.01	0.0	210.6	0.1	164.6
30.00	30.00	-0.03	-0.01	<pre>0 . 0</pre>	205.2	0.1	15.3
40.00	40.00	-0.01	0.00	g . 0 0 . 0	179.5	0.2	41.1
50.00	50.00	-0.00	0.01	ີ້ວິ. ບ	96.4	0.2	69.2
60.00	60.00	-0.00	0.05	0.0	95.0	0.2	1.1.6 . 2
70.00	70.00	-0.01	0.10	0.1	93.5	0.3	88.3
80.00	80.00	0.01	0.15	0.1	85.7	0.3	56.1
90.00	90.00	0.64	0.18	0.2	76.8	0.2	50.7
100.00	100.00	0.05	0.21	0.2	76.6	0.2	117.6
200.00	200.00		0.00	8 8	60.4	6.2	770 A

1244

	log: CNX-	09-B-18A_10-	08-09_07-08_	9136CH_ 10_	0.00_2416.	00_DEVI.1	<b>୍</b>	
40	BLE DEPTH		NORTH DEV.		DISTANCE	azimuth		ange
	0.50	0.50	0.00	0.00	0.0	0.0	0.0	0.0
	10.00	10.00	-0.01	-0.00	0.0	202.1	0.1	175.3
	20.00	20.00	-0.02	-0.01	0.0	210.6	0.1	164.6
	30.00	30.00	-0.03	-0.01	0.0	205.2 179.5 96.4 95.0 93.5 85.7	0.1	15.3
	40.00	.40.00	-0.03	0.00	0.0	179.5	0.2	41.1
	50.00	50.00	-0. <b>00</b>	0.01	0.0	96.4 05.6	0.2	69.2
	60.00	60.00	-0.00	0.05	0.0	95.U	0.2	116.2
	70.00	70.00	-0.01	0.10	0.1	93.5	0.3	88.3
	30.00	80.00	0.01	0.15	0.1	85.7	0.3	56.1
	90.00	90.00	0.04	0.18	0.2	76.0 76.6 80.4	0.2	50.7
	100.00	100.00	0.05	0.21	0.2	10.0	0.2	
	110.00	110.00	0.04	0.25	. 0.3	8V.4	0.2	118.4
	120.00	120.00	0.03	0.28	0.3	83.4 81.4 77.5	0.2	91.7
	130.00	130.00	0.05	0.32	0.3	51.4	0.2	48.9
	140.00	140.00	0.07	0.33	0.3	77.5	0.1	15.5
	150.00	150.00	0.08	0.33	0.3	75.9	0.1	95.5
	160.00	160.00	0.08	0.34	0.3	75.9 77.1 80.0	0.1	
	170.00	170.00	0.06	0.34	0.3	80.0	0.1	179.7
	180.00	180.00	0.04	0.34	0.3	62.9 83.9 82.3	0.1	131.6
	190.00	190.00	0.04	0.36	0.4	83.9	0.1	79.7
	200.00	200.00	0.05	0.37	0.4	82.3	0.1	14.4
	210.00	210.00	0.07	0.37	0.4	79.5 77.7	0.1	322.1
	220.00	220.00	0.08	0.35	0.4			273.3
	230.00	230.00	0.08	0.37	0.4	77.1	0.1	47.4
	240.00	240.00	0.10	0.38	0.4	74.9	0.1	20.8
	250.00	250.00	0.12	0.36	0.4	72.1	0.1	358.4
	260.00	260.00	0.15	0.38	0.4	68.8	0.1	344.4
	270.00	270.00	0.17	0.37	0.4	65.6	0.1	346.4
	280.00	280.00	0.18	0.36	0.4	64.0	0.5	29.1
	290.00	290.00	0.15	0,34	0.4	65.4	0.2	195.4
	300.00	300.00	0.13	0.31	0.3	67.6	0.2	217.4
	310.00	310.00	0.10	0,28	0.3	69.7	0.2	235.5
	320.00	320.00	0.08	0.24	0.3	72.1	0.3	235.7
	330.00	330.00	0.05	0.21	0.2	77.2	0.1	253.0
	340.00	340.00	0.02	0.16	0.2	82.0	0.5	248.3
	350.00	356.66		0.11	0.1	92.2	0.5	256.8
	360.00	360.00	-0,03		0.1	1,20.2	0.6	241.1
	370.00	370.00	-0.05	-0.02	0.1	198.1	0.6	215.5
	360.00	380.00	-0.08	-0.10	0.1	230.8	0.6	242.1
	390.00	390.00	-0.11	-0.19	0.2	239.8	0.4	269.1
	400.00	400.00	-0.14	-0.25	0.3	241.5	0.7	67.4
	410.00	409.99	-0.11	-0.22	0.2	244.7	0.2	317.5
	420.00	419.99	-0.13	-0.26	0.3	243.6	0.2	214.7
	430.00	429.99	-0.16	-0.32	0.4	243.6	0.7	283.2
	440.00	439.99	-0.21	-0.36	0.4	239.4	0.5	246.4
	450.00	449.99	-0.19		0.5	247.3	0.9	264.9
	460.00	459.99	-0.23	-0.56	0.6	248.7	0.8	254.9
	470.00	469.99	-0.25	-0.73	0.6	251.2	0.9	265.0
	480.00	479.99	-0.26	-0.88	0.9	253.5	0.8	261.6
	490.00	489.99	-0.2	-1.02	1.0	255.5	0.9	
	500.00	499.99	-0.2	-1.18	1.2	257.0	0.9	261.3
	510.00	509.99	-0.2	-1.36	1.4	258.5	1.0	278.5
	520.00	519.98	-0.2章	-1.52	1.5	259.8	0.9	
	530.00	529.96	-0.26	-1.69	1.7	261.1	1.0	263.2
	540.00	539.98	-0.27	-1.67	1.9	261.9	1.1	267.7
	550.00	549.98	-0.25	-2.04	2.1	262.9	1.0	272.7
	560.00	559.96	-0.25	-2.21	2.2	263.4	1.0	273.6
	570.00	569.98	-0.24	-2.37	2.4	264.3	1.0	280.5
	580.00	579.98	-0.23	-2.54	2.6	264.9	2.0	275.6
	590.00	589.97	-0.22	-2.72	2.7	265.5	1.0	275.2
	600.00	599.97	-0.20	-2.90	2.9	266.0	1.1	272.8
	610.00	609.97	-0.19	-3.07	3.1	266.4	1.0	273.7
	620.00	619.97	-0.19	-3.19	3.2	266.6	.1.0	306.7
	630.00	629.97	-0.20	-3.14	3.1	266.4	0.9	102.1 258.6
	640.00	639.97	-0.21	-3.21	3.2	266.3	0.6	
	650.00	649.97	-0.21	-3.33	3.3	266.3	0.7	255.3
	660.00	659.97	-0.26	-3.41	3.4	265.6	0.5	178.8
	670.00	669.97	-0.27	-3.50	3.5	265.6	1.0	289.3
	680.00	679.96	-0.37	-3.62	3.6	264.1	1.6	266.4
	690.00	689.96	-0.40	-3.80	3.8	264.0	1.1	244.4
	700.00	699.96	-0.46	-3.98	4.0	263.4	1.1	257.4
	710.00	709.96	-0.50	-4.17	4.2	263.2	1.2	233.2
	720.00	719.96	-0.58	-4.37	4.4	262.4	1.3	234.7
	730.00	729. <b>9</b> 5	-0.65	-4.55	4.6	261.9	1.1	253.5
	740.00	739.95	-0.74	-4.72	4.8	261.1	1.2	240.4
	750.00	749.95	-0.80	-4.90	5.0	260.7	1.1	250.6
	760.00	759.95	-0.91	-5.07	5.1	259.9	1.3	237.5
	770.00	769.95	-0.98	-5.26	5.3	259.5	1.4	230.2
	780.00	779.94	-1.02	-5.44	5.5	259.4	0.8	279.5
	790.00	789.94	-0.99	-5.56	5.6	259.9	0.7	288.5
	000.00	799.94	~0.95	-5.66	5.7	260.5 261 1	0.7 n a	276.1 292 n
	888 88	888 88	_6 64	_6 70	E 0	VAT 1	# F 3/4	्रकारः 11

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*179549516397488924560182357753688358839202444312265441811100987777765646555555555566780123344444821 *17954951639748892456018235775368835839202444312265444885555555555555555555555555555555
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ಹಳ್ಳಲ್ <i>.</i> ಚಳ	HERMAN CO. C. CO. CO.	en 1 52 57					
1540.00	1539.81	-1.21	-17.21	17.3	266.0	0.9	284.3
1550.00	1549.61	-1.19	-17.37	17.4	266.1	0.8	271.8
1560.00	1559.81	-1.16	-17.50	17.5	266.2	0.7	286.1
			-17.64	17.7	266.3	0.9	275.1
1570.00	1569.81	-1.15					
1580.00	1579.80	-1.14	-17.78	17.0	266.3	0.8	273.0
1590.00	1589.80	-1.13	-17.95	18.0	266.4	1.1	267.4
1600.00	1599.80	-1.14	-18.13	18.2	266.4	1.0	270.9
and the second second				18.3	266.4	1.0	271.5
1610.00		-1.14	-18.30				
1620.00	1619.80	-1.15	-18.49 -18.70	18.5	266.4	1.3	267.9
1630.00	1629.80	-1.16	-18.70	16.7	266.4	1.2	267.2
1640.00	1639.79	-1.18	-18.92	19.0	266.4	1.2	263.8
			-19.15	19.2	266.4	1.4	264.1
1650.00	1649.79	-1.20					
1560.00	1659.79	-1.23	-19.39	19.4	266.4	1.5	258.7
1670.00	1669.78	-1.27	-19.65	19.7	266.3	1.5	260.5
1680.00	1679.78	-1.32	-19.93	20.0	266.2	1.7	261.0
	1689.78	-1.32 -1.38	-20.22	20.3	266.1	1.9	258.2
1690.00					265.9	2.0	258.1
1700.00	1699.77	-1.45	-20.53	20.6			
1710.00	1709.76	-1.54	-20.88	20.9	265.8	2.1	255.5
1720.00	1719.76	-1.65	-21.23	21.3	265.6	2.1	249.4
	1729.75	-1.76	-21.57	21.6	265.3	2.0	251.5
1730.00					6 6 6 4 4 A	2.0	251.5
1740.00	1739.75	-1.86	-21.91	22.0	265.1		
1750.00	1749.74	-1.99	-22.23	22.3	264.9	2.0	245.0
1760.00	1759.73	-2.10	-22.58	22.7	264.7	2.0	254.8
1770.00	1769.73	-2.20	-22.90	23.0	264.5	1.9	256.2
	ୟ / ଅଟେ - / ଫ ଏହା ଅନ୍ତ	-2.31	-23.25	22 4	264 3	2 1	243.3
1780.00	1779.72		~60.60	60 B	ಎಂದಾಗ ರ	6 9	
1790.00	1769.71	-2.44	-23.60	23.4 23.7 24.1	264.1	4.4	246.3
1800.00	1799.71	-2.57	-23.92	24.1	263.9	1.9	251.8
1810.00	1809.70	-2.70	-24.24	24.4	263.6	2.1	247.1
1820.00	1819.70	-2.70 -2.82 -2.94 -3.06 -3.21 -3.45	-24.55	24.4 24.7	264.9 264.5 264.1 264.1 263.6 263.6 263.3 263.3 263.3 263.3	1.8	245.6
1830.00	1029.69	-2 04	-24,63	25.0	263 3	9 7	243.7
	4000 00	ው • ም <sup>1</sup> ቔ _ ၅ ጸድ		ଲେତା,∀ ଅଷ ଓ	200.0	4 27	
1840.00	1839.69	-3.06	-25.00	25.3	£03.U	1.5	243.2
1050.00	1849.68	-3.21	-25.35	25.5 25.9	262.8 262.3	1.9	236.8
1860.00	1859.68	~3.45	-25.63	25.9	262.3	2.2	226.5
1870.00	1869.67	-3.73	-25.91	26.2	261.8	2.4	222.1
	4 A M A & &	5 00	00.00	96 %	261.3		219.2
1860.00	1879.66	-3.99 -4.27	-26.20 -26.42	80.5			
1890.00	1889.65	-4.27			260.8		216.8
1900.00	1899.65	-4.54	-26.65	27.0	260.3	2.0	220.5
1910.00	1909.64	-4.83	-26.84	27.3	259.8	2,0	212.9
	1919.63	-5.13	-27.03	27.3 27.5	259.3	2.1	210.2
1920.00			~21.00	& 1 . W	299.3 6F6 B		
1930.00	1929.63	-5.45	-27.21	27.7	258.7	2.0	209.5
1940.00	1939.62	-5.74	-27.38	28.0	258.7 258.2	2.0	200.7
1950.00	1949.62	-6.05	-27.54	28.2	257.6	2.0	205.8
			-27.68	28.4	257.1	1.9	204.6
1960.00	1959.61	-6.36			691.A		
1970.00	1969.60	-6.66	-27.83	28.6	256.5	1.9	206.8
CAAA AA							
1980.00	1979.60	~6.98	-27.98	28.8	256.0	2.1	201.4
			-27.98 -28.11	28.8 29.0	256.0		
1990.00	1989.59	-7.30	-27.96 -28.11 -28.24	28.0 29.0	256.0 255.4	2.0	198.2
1990.00 2000.00	1989.59 1999.59	-7.30 -7.62	-28,24	28.0 29.0 29.3	256.0 255.4 254.9	2.0 1.9	198.2 206.5
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1990.00 2000.00 2010.00 2020.00 2030.00 2040.00 2050.00	1989.59 1999.59 2009.58 2019.57 2029.57 2039.56 2043.5	-7.30 -7.62 -7.93 -8.24 -8.54 -8.80	-28.24 -28.38 -26.51 -28.64 -28.68 -25.79	28.8 29.0 29.3 29.5 29.7 29.9 30.0	256.0 255.4 254.9 254.4 253.9 253.4 252.9	2.0 1.9 1.9 1.8 1.6	198.2 206.5 202.7 203.4 203.0 132.1 213.2
1990.00 2000.00 2010.00 2020.00 2030.00 2040.00	1989.59 1999.59 2009.58 2019.57 2029.57 2039.56 2049.5	-7.30 -7.62 -7.93 -8.24 -8.54 -8.90 -9.14	-28.24 -28.38 -26.51 -28.64 -28.68 -25.79	28.8 29.0 29.3 29.5 29.7 29.9 30.0	256.0 255.4 254.9 254.4 253.9 253.4 252.9	2.0 1.9 2.0 1.9 1.8 1.6 1.7	198.2 206.5 202.7 203.4 203.0 132.1 213.2 205.7
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Well: **B18A** 

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"	34	15"			Χ	10/5/09	
Surface	9 5/8"	207.7	12 3/8"	118	Χ		10/5/09	Basket@88
Water Protection	4 1/2"	2183	6 1/2"	397.15	Χ		10/8/09	
Coal Protection	4 1/2"	2183	6 1/2"	397.15	Χ		10/8/09	
Other Casing & Tubing								
Other Casing & Tubing		•						
Liners								

COMPANY: CNX GAS CO LLC

HOLE: B-18-A

RIG: 141 LOCATION: LOWER BIG BRANCH RD, VA

DATE STARTED: 9/30/2009
DATE COMPLETED: 10/8/2009

ELECTRIC LOGGED: YES GROUTED: YES

DEPTH		THICKNESS			STRATA
FROM		ТО		FT	DESCRIPTION, VOIDS ETC
	0	1	34	3	4 OVERBURDEN
	34		54.4	20.	4 SAND / SHALE / COAL
	54.4		86	31.	6 SAND / SHALE / COAL
	86		117.6	31.	6 SAND / SHALE
	117.6		149.2	31.	6 SAND
	149.2		180.8	31.	6 SAND / SHALE / COAL
	180.8		210.8	3	0 SAND / SHALE
	210.8		230.8	2	0 SAND
	230.8		240.6	9.	8 SAND
	240.6		270.6	3	0 SAND / SHALE / COAL
	270.6		280.6	1	0 SAND
	280.6		282.5	1.	9 SAND
	282.5		312.5	3	O SAND / SHALE
	312.5		342.5	3	0 SAND / SHALE
	342.5		372.5	3	O SAND / SHALE / COAL
	372.5		402.5	3	0 SAND / SHALE / COAL
	402.5		432.5	3	0 SAND / SHALE
	432.5		462.5	3	O SAND / SHALE
	462.5		492.5	3	0 SAND / SHALE / COAL
	492.5		522.5	3	0 SAND / SHALE
	522.5		552.5	3	O SAND / SHALE / COAL
	552.5		582.5	3	O SAND / SHALE
	582.5		612.5	3	0 SAND / SHALE
	612.5		642.5	3	O SAND / SHALE
	642.5		672.5	3	O SAND / SHALE
	672.5		702.5	3	0 SAND / SHALE / COAL
	702.5		732.5	3	0 SAND / SHALE / COAL
	732.5		762.5	3	0 SAND / SHALE
	762.5		792.5	3	O SAND / SHALE
	792.5		822.5	3	0 SAND / SHALE / COAL
	822.5		852.5	3	0 SAND
	852.5		882.5	3	0 SAND / SHALE
	882.5		912.5	3	0 SAND / SHALE / COAL
	912.5		942.5	3	O SAND / SHALE

942.5	972.5	30 SAND / SHALE
972.5	1002.5	30 SAND / SHALE
1002.5	1032.5	30 SAND / SHALE / COAL
1032.5	1062.5	30 SANDY SHALE / SAND
1062.5	1092.5	30 SAND / COAL / SAND
		•
1092.5	1122.5	30 SAND
1122.5	1152.5	30 SAND / SANDY SHALE
1152.5	1182.5	30 SANDY SHALE
1182.5	1212.5	30 SANDY SHALE
1212.5	1242.5	30 SANDY SHALE / COAL / SANDY SHALE
1242.5	1272.5	30 SANDY SHALE
1272.5	1302.5	30 SANDY SHALE / COAL / SANDY SHALE
1302.5	1332.5	30 SANDY SHALE / COAL / SANDY SHALE
1332.5	1362.5	30 SANDY SHALE / COAL / SANDY SHALE
1362.5	1392.5	30 SANDY SHALE
1392.5	1422.5	30 SANDY SHALE / COAL / SANDY SHALE
1422.5	1452.5	30 SANDY SHALE
1452.5	1482.5	30 SANDY SHALE
1482.5	1512.5	
		30 SANDY SHALE / COAL / SANDY SHALE
1512.5	1542.5	30 SANDY SHALE / COAL / SANDY SHALE
1542.5	1572.5	30 SANDY SHALE / COAL / SANDY SHALE
1572.5	1602.5	30 SANDY SHALE
1602.5	1632.5	30 SANDY SHALE / COAL / SANDY SHALE
1632.5	1662.5	30 SANDY SHALE / COAL / SANDY SHALE
1662.5	1692.5	30 SANDY SHALE
1692.5	1722.5	30 SANDY SHALE / COAL / SANDY SHALE
1722.5	1752.5	30 SANDY SHALE / COAL / SANDY SHALE
1752.5	1782.5	30 SANDY SHALE / COAL / SANDY SHALE
1782.5	1812.5	30 SANDY SHALE / COAL / SANDY SHALE
1812.5	1842.5	30 SANDY SHALE
1842.5	1872.5	30 SANDY SHALE
1872.5	1902.5	30 SANDY SHALE / COAL / SAND
1902.5	1932.5	30 SAND
1932.5	1962.5	30 SAND
1962.5	1992.5	30 SAND
1992.5	2022.5	30 SAND
2022.5	2052.5	30 SAND / SHALE / COAL
2022.5		
	2082.5	30 SAND / SHALE / COAL
2082.5	2112.5	30 SAND / SHALE / COAL
2112.5	2142.5	30 SAND
2142.5	2159.5	17 SAND
2159.5	2162.5	3 COAL P3 SEAM
2162.5	2172.5	10 SAND / SHALE
2172.5	2202.5	30 SAND / SHALE / COAL
2202.5	2232.5	30 SAND / SHALE
2232.5	2262.5	30 SAND / SHALE
2262.5	2281.5	19 SAND

2281.5	2292.5	11 SAND
2292.5	2322.5	30 SAND
2322.5	2352.5	30 SAND
2352.5	2382.5	30 SAND
2382.5	2412.5	30 SAND
2412.5	2442.5	30 SAND / RED SHALE 7'

2442.5' TOTAL DEPTH 34' OF 13 3/8" CASING 207.7' OF 9 5/8" CASING 2183' OF 4 1/2" CASING