



Commonwealth of Virginia
 Department of Mines, Minerals, and Energy
 Division of Gas and Oil
 P.O. Box 1416; Abingdon, VA 24212
 Telephone: (276) 676-5423

Tracking Number: 704
 Company: CNX Gas Company LLC
 File Number: BU-3409
 Operations Name: CBM E21 W/PL
 Operation Type: Coalbed/Pipeline
 Drilling Report Type: Original

DRILLING REPORT (DGO-GO-14)

1. Drilling Data

Date drilling commenced: 6/29/2007 Drilling Contractor: Noah Horn
 Date drilling completed: 7/10/2007 Rig Type: Rotary Cable Tool
 Driller's Total Depth (feet): 1,630
 Log Total Depth (feet): 1,612 Coal Seam At Total Depth PARDEE

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

Permitted State Plane X 983,825 Final Plat State Plane X: 983,818
 Permitted State Plane Y: 358,295 Final Plat State Plane Y: 358,292

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
Plat	E21 Plat.pdf

3. Geological Data

Fresh Water At:

Depth (in feet)	Rate	Unit of Measure
1,185	1-2	GPM
35	Damp	GPM

Salt Water At:

Depth (in feet)	Rate	Unit of Measure
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Coal Seams

List of Attached Items:

Description	FileName
Exhibit A	E21 Exhibit A.pdf

Gas and Oil Shows

List of Attached Items:

Description	FileName
Gas Show	E21 Gas Show.xls

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

List all logs run: Caliper,Gamm,Density,Temp,Deviation

Did logs disclose vertical locations of a coal seam? Yes No

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

List of Attached Items:

Description	FileName
Deviation	E21 Deviation.pdf

6. Casing and Tubing Program

List of Attached Items:

Description	FileName
Casting	E21 Casing.xls

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/occurrence.

8. Drillers Log

Compiled By: Noah Horn

List of Attached Items:

Description	FileName
Drill Data	E21 Drill Data.pdf

9. Comments

10. Signature

Permitee: CNX Gas Company LLC Date: 10/10/2007 (Company)

Signed By: Leslie K. Arrington Title: Manager (Signature)

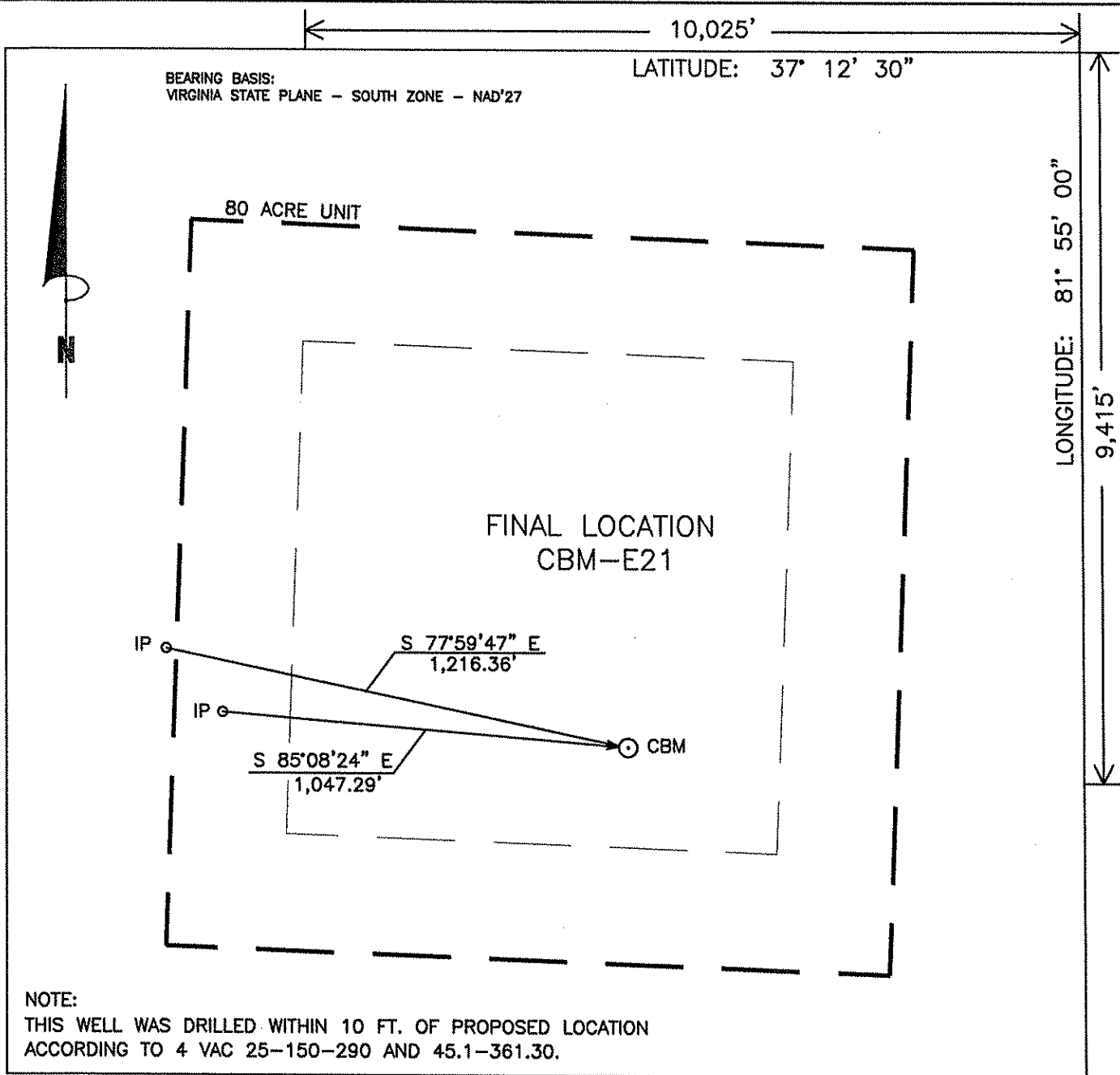
INTERNAL USE ONLY

Submit Date: 10/10/2007

Status: Inspr Approved

Date: 10/11/2007

Final PDF Date: 10/11/2007



WELL LOCATION PLAT

E21FNL
1N16/84-596/51

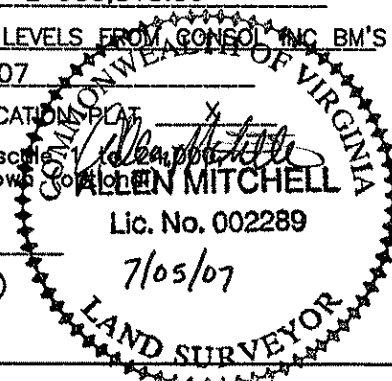
COMPANY CNX GAS COMPANY, LLC. WELL NAME OR NUMBER CBM-E21
 TRACT NUMBER C. L. RITTER LUMBER QUADRANGLE PATTERSON
 DISTRICT: GARDEN

WELL COORDINATES (VIRGINIA STATE PLANE): STATE PLANE: N 358,292.36 E 983,818.06
 ELEVATION: 1363.54' METHOD USED TO DETERMINE ELEVATION: BY TRIG. LEVELS FROM CONSOLIDATING BM'S
 COUNTY BUCHANAN Scale: 1" = 400' Date 07-05-07

THIS PLAT IS A NEW PLAT _____; AN UPDATED PLAT _____; OR A FINAL LOCATION PLAT _____



Denotes the location of a well on United States Topographic Maps, scale _____, latitude and longitude lines being represented by border lines as shown on _____



Licensed Professional Engineer or Licensed Land Surveyor (Affix Seal)

Exhibit A

Well Name: 07 CBM E21
 SURFACE ELEV: 1363.54 EASTING: 983818.06 NORTHING: 358292.36

SEAM	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)	REMARKS
JB1	113.00	116.00	1250.54	3.00	
	116.00	138.00	1247.54	22.00	
JB3	138.00	140.00	1225.54	2.00	
	140.00	173.60	1223.54	33.60	
T2	173.60	175.20	1189.94	1.60	
	175.20	200.80	1188.34	25.60	
TI	200.80	201.80	1162.74	1.00	
	201.80	470.60	1161.74	268.80	
COAL	470.60	470.80	892.94	0.20	
	470.80	471.20	892.74	0.40	
GC2	471.20	471.80	892.34	0.60	
	471.80	508.70	891.74	36.90	
COAL	508.70	508.90	854.84	0.20	
	508.90	547.50	854.64	38.60	
SE2	547.50	548.50	816.04	1.00	
	548.50	667.80	815.04	119.30	
*UH1	667.80	668.20	695.74	0.40	
	668.20	668.90	695.34	0.70	
*COAL	668.90	669.00	694.64	0.10	
	669.00	712.70	694.54	43.70	
*UH2	712.70	713.30	650.84	0.60	
	713.30	713.80	650.24	0.50	
*COAL	713.80	714.10	649.74	0.30	
	714.10	736.30	649.44	22.20	
*MH1	736.30	737.60	627.24	1.30	
	737.60	737.90	625.94	0.30	
*COAL	737.90	738.00	625.64	0.10	
	738.00	832.10	625.54	94.10	
*P11	832.10	834.00	531.44	1.90	
	834.00	858.50	529.54	24.50	
*P10	858.50	859.40	505.04	0.90	
	859.40	983.10	504.14	123.70	
*P91	983.10	983.30	380.44	0.20	
	983.30	985.00	380.24	1.70	
*COAL	985.00	985.10	378.54	0.10	
	985.10	985.60	378.44	0.50	
*P91	985.60	985.80	377.94	0.20	
	985.80	986.50	377.74	0.70	
*P92	986.50	987.90	377.04	1.40	
	987.90	1046.70	375.64	58.80	
*P81	1046.70	1047.10	316.84	0.40	
	1047.10	1047.70	316.44	0.60	
*P81	1047.70	1048.20	315.84	0.50	
	1048.20	1292.30	315.34	244.10	
*P42	1292.30	1292.80	71.24	0.50	
	1292.80	1293.80	70.74	1.00	
*COAL	1293.80	1293.90	69.74	0.10	
	1293.90	1366.50	69.64	72.60	

*P3	1366.50	1370.42	-2.96	3.92
	1370.42	1445.60	-6.88	75.18
*P01	1445.60	1445.70	-82.06	0.10
	1445.70	1513.30	-82.16	67.60
*SJ3	1513.30	1514.90	-149.76	1.60
	1514.90	1630.00	-151.36	115.10

COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO THE GAS WELL'S PROXIMITY TO DISMAL CREEK AND A WATER WELL OF UNKNOWN DEPTH (100 FT WAS ASSUMED).

GAMMA-CALIPER LOG FROM 0 TO 311.00
 GAMMA-DENSITY LOG FROM 311.00 TO 1611.50
 NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION
 DATE: 07/26/07

Well: E21

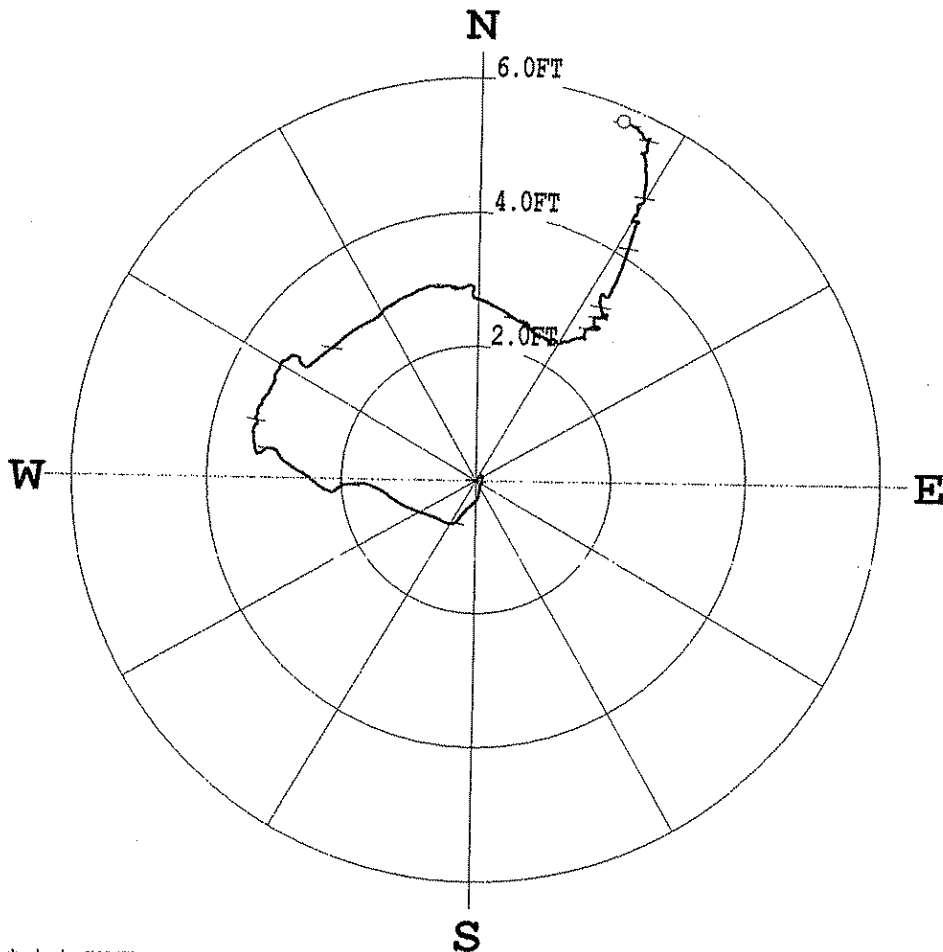
Oil & Gas Show

Formation	Top	Bottom	Thickness	IPF (MCFD/BOPD)	Pressure	Hours Tested
Lee/Norton	736	987	251			
Pocahontas	1371	1515	144			
Total IPF				Not Taken		

CLIENT: CNX-GAS
 LOCATION: -
 HOLE ID: 07-CNX-E-21
 DATE OF LOG: 07/10/07
 PROBE: 9136CH 1244

MAG DECL: -7.1

SCALE: 2 FT/IN
 TRUE DEPTH: 1611.47 F
 AZIMUTH: 21.3
 DISTANCE: 5.8 FT
 + = 100 FT INCR
 O = BOTTOM OF HOLE



***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT : CNX-GAS HOLE ID. : 07-CNX-E-21
 FIELD OFFICE : O'DRISCOLL DATE OF LOG : 07/10/07
 DATA FROM : - PROBE : 9136CH , 1244
 MAG. DECL. : -7.100 DEPTH UNITS : FEET
 LOG: 07-CNX-E-21_07-10-07_21-27_9136CH_10_0.00_1611.60_DEVI.log

BLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
0.50	0.50	0.00	0.00	0.0	0.0	0.0	0.0
10.00	10.00	-0.01	-0.01	0.0	220.4	0.5	228.0
20.00	20.00	0.06	0.04	0.1	32.8	0.6	20.3
30.00	30.00	0.06	0.10	0.1	61.7	0.5	160.0
40.00	40.00	-0.03	0.08	0.1	109.5	0.7	239.3
50.00	50.00	-0.14	0.05	0.2	159.9	0.7	178.8
60.00	60.00	-0.25	0.04	0.2	171.8	0.6	196.6
70.00	70.00	-0.34	-0.04	0.3	186.1	0.8	235.6
80.00	79.99	-0.47	-0.17	0.5	199.6	0.9	225.4
90.00	89.99	-0.58	-0.25	0.6	203.4	0.7	208.3
100.00	99.99	-0.64	-0.31	0.7	205.9	0.5	245.8
110.00	109.99	-0.65	-0.41	0.8	212.5	0.6	281.0
120.00	119.99	-0.59	-0.53	0.8	222.1	0.8	297.1
130.00	129.99	-0.52	-0.71	0.9	233.7	1.2	289.1
140.00	139.99	-0.45	-0.90	1.0	243.3	1.6	287.1
150.00	149.99	-0.38	-1.07	1.1	250.3	1.0	299.8
160.00	159.98	-0.30	-1.21	1.2	255.9	0.6	302.3
170.00	169.98	-0.23	-1.31	1.3	260.2	0.6	307.2
180.00	179.98	-0.14	-1.47	1.5	264.7	1.4	294.1
190.00	189.98	-0.07	-1.68	1.7	267.5	1.1	267.4
200.00	199.98	-0.08	-1.87	1.9	267.4	1.2	261.1
210.00	209.98	-0.14	-2.03	2.0	266.2	0.5	225.8
220.00	219.97	-0.19	-2.11	2.1	264.8	0.4	267.3
230.00	229.97	-0.19	-2.17	2.2	265.0	0.8	298.6
240.00	239.97	-0.13	-2.30	2.3	266.6	0.9	294.8
250.00	249.97	-0.05	-2.41	2.4	268.9	0.8	310.5
260.00	259.97	0.07	-2.57	2.6	271.6	1.5	299.1
270.00	269.97	0.20	-2.78	2.8	274.1	1.3	301.7
280.00	279.97	0.31	-2.91	2.9	276.2	0.8	324.3
290.00	289.97	0.41	-2.98	3.0	277.0	0.7	322.0

170.00	189.98	-1.23	-1.31	1.3	209.2	0.0	307.2
180.00	179.98	-0.14	-1.47	1.5	264.7	1.4	294.1
190.00	189.98	-0.07	-1.68	1.7	267.5	1.1	267.4
200.00	199.98	-0.08	-1.87	1.9	267.4	1.2	261.1
210.00	209.98	-0.14	-2.03	2.0	266.2	0.5	225.8
220.00	219.97	-0.19	-2.11	2.1	264.8	0.4	267.3
230.00	229.97	-0.19	-2.17	2.2	265.0	0.8	298.6
240.00	239.97	-0.13	-2.30	2.3	266.6	0.9	294.8
250.00	249.97	-0.05	-2.41	2.4	268.9	0.8	310.5
260.00	259.97	0.07	-2.57	2.6	271.6	1.5	299.1
270.00	269.97	0.20	-2.78	2.8	274.1	1.3	301.7
280.00	279.97	0.31	-2.91	2.9	276.2	0.8	324.3
290.00	289.97	0.41	-2.98	3.0	277.9	0.7	303.9
300.00	299.96	0.43	-3.09	3.1	278.0	0.5	260.7
310.00	309.96	0.39	-3.15	3.2	277.1	0.4	242.7
320.00	319.96	0.37	-3.20	3.2	276.5	0.3	304.2
330.00	329.96	0.35	-3.25	3.3	276.2	0.6	228.8
340.00	339.96	0.39	-3.27	3.3	276.8	0.2	318.5
350.00	349.96	0.45	-3.28	3.3	277.8	0.6	337.7
360.00	359.96	0.52	-3.29	3.3	278.9	0.2	337.8
370.00	369.96	0.59	-3.31	3.4	280.2	0.2	11.4
380.00	379.96	0.68	-3.31	3.4	281.6	0.6	356.6
390.00	389.96	0.77	-3.29	3.4	283.2	0.5	29.2
400.00	399.96	0.85	-3.26	3.4	284.7	1.2	314.4
410.00	409.96	0.98	-3.25	3.4	286.7	0.8	348.8
420.00	419.96	1.10	-3.18	3.4	289.0	1.0	5.6
430.00	429.96	1.24	-3.10	3.3	291.8	1.0	48.0
440.00	439.95	1.41	-3.02	3.3	295.1	1.1	27.2
450.00	449.95	1.59	-2.96	3.4	298.3	1.1	33.3
460.00	459.95	1.75	-2.84	3.3	301.6	1.1	84.8
470.00	469.95	1.79	-2.65	3.2	304.0	1.3	132.1
480.00	479.95	1.67	-2.50	3.0	303.7	1.1	52.6
490.00	489.94	1.81	-2.33	3.0	307.8	1.4	53.8
500.00	499.94	1.94	-2.16	2.9	311.9	1.2	56.0
510.00	509.94	2.08	-2.00	2.9	316.1	1.3	47.9
520.00	519.94	2.21	-1.84	2.9	320.3	1.2	60.9
530.00	529.93	2.31	-1.67	2.8	324.2	1.0	56.2
540.00	539.93	2.42	-1.48	2.8	328.5	1.4	54.4
550.00	549.93	2.61	-1.28	2.9	333.9	1.7	49.3
560.00	559.92	2.72	-1.09	2.9	338.1	1.5	65.2
570.00	569.92	2.81	-0.92	3.0	341.9	1.2	69.4
580.00	579.92	2.88	-0.75	3.0	345.4	0.9	65.2
590.00	589.92	2.88	-0.61	2.9	348.0	0.6	71.9
600.00	599.92	2.90	-0.49	2.9	350.4	1.1	74.2
610.00	609.92	2.87	-0.33	2.9	353.4	0.8	164.2
620.00	619.91	2.87	-0.38	2.9	352.4	0.8	98.0
630.00	629.91	2.88	-0.21	2.9	355.9	1.0	82.6
640.00	639.91	2.88	-0.07	2.9	358.6	0.9	152.2
650.00	649.91	2.73	-0.06	2.7	358.6	0.9	113.8
660.00	659.91	2.68	0.08	2.7	1.6	0.8	111.1
670.00	669.91	2.63	0.19	2.6	4.2	0.8	114.1
680.00	679.91	2.57	0.32	2.6	7.0	0.9	114.7
690.00	689.91	2.50	0.43	2.5	9.9	0.6	115.1
700.00	699.91	2.43	0.54	2.5	12.5	0.8	121.7
710.00	709.90	2.37	0.66	2.5	15.6	0.9	110.0
720.00	719.90	2.35	0.70	2.5	16.6	0.9	82.3
730.00	729.90	2.33	0.74	2.4	17.7	0.7	149.2
740.00	739.90	2.24	0.80	2.4	19.6	0.5	132.1
750.00	749.90	2.19	0.87	2.4	21.6	0.5	123.1
760.00	759.90	2.16	0.94	2.4	23.5	0.5	112.1
770.00	769.90	2.13	1.00	2.3	25.2	0.3	146.5
780.00	779.90	2.10	1.05	2.3	26.5	0.4	124.6
790.00	789.90	2.10	1.05	2.3	26.5	0.4	3.6
800.00	799.90	2.12	1.11	2.4	27.6	0.6	89.6
810.00	809.90	2.06	1.19	2.4	29.9	0.7	94.5
820.00	819.90	2.08	1.27	2.4	31.3	0.5	74.5
830.00	829.90	2.10	1.34	2.5	32.7	0.4	67.5
840.00	839.90	2.13	1.42	2.6	33.7	0.5	65.5
850.00	849.90	2.14	1.49	2.6	34.7	0.4	78.5
860.00	859.90	2.16	1.55	2.7	35.8	0.4	91.5
870.00	869.90	2.14	1.58	2.7	36.4	0.3	294.7
880.00	879.90	2.18	1.56	2.7	35.7	0.5	359.8
890.00	889.90	2.24	1.58	2.7	35.1	0.4	8.9
900.00	899.90	2.28	1.62	2.8	35.4	0.4	89.8
910.00	909.90	2.31	1.68	2.9	36.0	0.3	77.2
920.00	919.90	2.31	1.72	2.9	36.6	0.3	93.9
930.00	929.90	2.32	1.76	2.9	37.2	0.2	57.5
940.00	939.90	2.29	1.78	2.9	37.8	0.3	130.4
950.00	949.90	2.29	1.77	2.9	37.7	0.2	302.2
960.00	959.90	2.29	1.75	2.9	37.4	0.2	301.1
970.00	969.90	2.32	1.73	2.9	36.7	0.3	281.5
980.00	979.90	2.36	1.71	2.9	36.0	1.0	354.2
990.00	989.90	2.42	1.71	3.0	35.3	0.3	314.7
1000.00	999.90	2.46	1.77	3.0	35.7	0.4	99.4
1010.00	1009.90	2.48	1.83	3.1	36.3	0.4	55.9
1020.00	1019.90	2.51	1.87	3.1	36.7	0.3	68.1
1030.00	1029.90	2.49	1.90	3.1	37.4	0.3	207.9
1040.00	1039.90	2.47	1.89	3.1	37.4	0.2	244.9
1050.00	1049.90	2.47	1.87	3.1	37.1	0.1	251.7
1060.00	1059.89	2.48	1.85	3.1	36.8	0.1	74.2
1070.00	1069.89	2.49	1.83	3.1	36.3	0.2	346.0
1080.00	1079.89	2.52	1.83	3.1	36.0	0.2	8.1
1090.00	1089.89	2.57	1.82	3.1	35.3	0.4	353.5
1100.00	1099.89	2.62	1.80	3.2	34.5	0.3	338.4
1110.00	1109.89	2.69	1.79	3.2	33.7	0.5	355.4
1120.00	1119.89	2.76	1.80	3.3	33.1	0.6	18.8
1130.00	1129.89	2.78	1.86	3.3	33.7	0.9	151.1

1040.00	1039.90	2.47	1.89	3.1	37.4	0.2	244.9
1050.00	1049.90	2.47	1.87	3.1	37.1	0.1	251.7
1060.00	1059.89	2.48	1.85	3.1	36.8	0.1	74.2
1070.00	1069.89	2.49	1.83	3.1	36.3	0.2	346.0
1080.00	1079.89	2.52	1.83	3.1	36.0	0.2	8.1
1090.00	1089.89	2.57	1.82	3.1	35.3	0.4	353.5
1100.00	1099.89	2.62	1.80	3.2	34.5	0.3	338.4
1110.00	1109.89	2.69	1.79	3.2	33.7	0.5	355.4
1120.00	1119.89	2.76	1.80	3.3	33.1	0.6	18.8
1130.00	1129.89	2.78	1.86	3.3	33.7	0.9	151.1
1140.00	1139.89	2.82	1.95	3.4	34.6	0.7	26.1
1150.00	1149.89	2.93	2.00	3.5	34.2	0.7	31.7
1160.00	1159.89	3.03	2.04	3.7	34.0	0.7	44.3
1170.00	1169.89	3.14	2.09	3.8	33.6	0.7	28.9
1180.00	1179.89	3.26	2.12	3.9	33.1	0.7	15.8
1190.00	1189.89	3.38	2.16	4.0	32.6	0.7	20.0
1200.00	1199.89	3.50	2.20	4.1	32.2	0.7	20.8
1210.00	1209.89	3.60	2.23	4.2	31.8	0.7	26.5
1220.00	1219.89	3.71	2.27	4.4	31.4	0.7	12.0
1230.00	1229.89	3.82	2.30	4.5	31.0	0.7	31.6
1240.00	1239.89	3.89	2.34	4.5	31.0	0.5	199.3
1250.00	1249.88	3.89	2.33	4.5	31.0	0.2	125.7
1260.00	1259.88	3.91	2.25	4.5	30.0	0.6	314.8
1270.00	1269.88	3.98	2.28	4.6	29.8	0.7	7.4
1280.00	1279.88	4.07	2.33	4.7	29.8	0.7	1.1
1290.00	1289.88	4.16	2.36	4.8	29.6	0.6	81.9
1300.00	1299.88	4.25	2.42	4.9	29.7	0.8	355.0
1310.00	1309.88	4.37	2.43	5.0	29.1	0.7	275.8
1320.00	1319.88	4.48	2.44	5.1	28.5	0.7	2.1
1330.00	1329.88	4.59	2.44	5.2	28.0	0.6	5.0
1340.00	1339.88	4.70	2.44	5.3	27.4	0.6	2.6
1350.00	1349.88	4.81	2.43	5.4	26.8	0.7	337.6
1360.00	1359.88	4.92	2.41	5.5	26.1	0.6	6.3
1370.00	1369.88	4.91	2.37	5.5	25.8	0.7	117.7
1380.00	1379.88	4.99	2.45	5.6	26.2	0.5	6.7
1390.00	1389.88	5.05	2.45	5.6	25.8	0.4	31.5
1400.00	1399.88	5.10	2.47	5.7	25.8	0.2	3.9
1410.00	1409.88	5.13	2.48	5.7	25.9	0.1	191.2
1420.00	1419.88	5.13	2.46	5.7	25.6	0.4	280.2
1430.00	1429.88	5.14	2.42	5.7	25.2	0.4	269.5
1440.00	1439.88	5.18	2.39	5.7	24.7	0.4	327.2
1450.00	1449.87	5.22	2.37	5.7	24.4	0.3	335.1
1460.00	1459.87	5.25	2.33	5.7	24.0	0.3	346.7
1470.00	1469.87	5.28	2.30	5.8	23.5	0.4	315.0
1480.00	1479.87	5.30	2.30	5.8	23.4	0.2	261.0
1490.00	1489.87	5.31	2.26	5.8	23.1	0.3	290.5
1500.00	1499.87	5.34	2.21	5.8	22.5	0.4	307.4
1510.00	1509.87	5.36	2.17	5.8	22.1	0.3	305.3
1520.00	1519.87	5.39	2.15	5.8	21.7	0.1	306.1
1530.00	1529.87	5.42	2.14	5.8	21.6	0.2	53.1
1540.00	1539.87	5.40	2.16	5.8	21.8	0.2	156.8
1550.00	1549.87	5.37	2.17	5.8	22.0	0.4	179.0
1560.00	1559.87	5.33	2.14	5.7	21.9	0.3	248.8
1570.00	1569.87	5.32	2.11	5.7	21.6	0.2	332.4
1580.00	1579.87	5.36	2.09	5.8	21.3	0.3	334.4
1590.00	1589.87	5.36	2.08	5.8	21.2	0.3	208.5
1600.00	1599.87	5.37	2.08	5.8	21.2	0.1	49.8
1610.00	1609.87	5.38	2.10	5.8	21.3	0.2	354.5
1611.60	1611.47	5.39	2.10	5.8	21.3	0.2	13.4

DRILL DATA HOLE-NOAH HORN WELL DRILLING, INC

COMPANY: CNX

HOLE #: E-21

LOCATION: DISMAL

DRILL RIG #: 17

DATE STARTED: 06-29-07

DATED COMPLETED: 07-10-07

ELECTRIC LOGGED: YES

GROUTED: YES

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT	DESCRIPTION, VOIDS ETC	
0	30	30	OVERBURDEN	
30	60	30	SHALE/COAL	
60	90	30	SHALE/SANDY SHALE	
90	120	30	SANDY SHALE/COAL/SANDY SHALE	
120	150	30	SAND STONE/SANDY SHALE/SHALE	
150	180	30	SAND STONE/COAL/SHALE	
180	210	30	SANDY SHALE/SHALE	
210	270	60	SAND STONE	
270	300	30	SANDY SHALE	
300	330	30	SHALE/SANDY SHALE	
330	390	60	SAND STONE	
390	450	60	SANDY SHALE	
450	480	30	SANDY SHALE/COAL/SANDY SHALE	
480	510	30	SANDY SHALE	
510	540	30	SAND STONE/COAL/SANDY SHALE	
540	570	30	SAND STONE/SANDY SHALE	
570	600	30	SANDY SHALE	
600	660	60	SANDY SHALE/SHALE	
660	690	30	SAND STONE	
690	750	60	SAND STONE/COAL/SANDY SHALE	
750	780	30	SHALE	
780	810	30	SHALE/SANDY SHALE	
810	840	30	SANDY SHALE/COAL/SAND STONE	
840	870	30	SAND STONE/SANDY SHALE	
870	900	30	SAND STONE	
900	960	60	SANDY SHALE/SHALE	
960	990	30	SANDY SHALE/COAL/SHALE	
990	1020	30	SANDY SHALE	
1020	1050	30	SANDY SHALE/COAL/SANDY SHALE	
1050	1080	30	SANDY SHALE/SHALE	
1080	1110	30	SHALE/SANDY SHALE	
1110	1140	30	SANDY SHALE/SHALE	
1140	1170	30	SAND STONE	
1170	1200	30	SAND STONE/SANDY SHALE	
1200	1230	30	SAND STONE/SANDY SHALE/SHALE	
1230	1290	60	SANDY SHALE	
1290	1320	30	SANDY SHALE/SHALE	
1320	1350	30	SAND/SANDY SHALE	
1350	1358	8	SANDY SHALE	
1358	1362	4	COAL P-3	
1362	1410	48	SANDY SHALE	
1410	1440	30	SANDY SHALE/COAL/SAND	

1440	1470	30	SANDY SHALE
1470	1500	30	SANDY SHALE/COAL/SANDY SHALE
1500	1530	30	SAND STONE
1530	1560	30	SAND/SANDY SHALE
1560	1620	60	SANDY SHALE
1620	1630	10	RED SHALE

1630' - TOTAL DEPTH
30' - 13 3/8" CASING
310.80' - 7" CASING
1448.35' - 4 1/2" CASING