



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: 125
 Company: CNX Gas Company LLC
 File Number: BU-3047
 Operations Name: CBM E20 W/PL
 Operation Type: Coalbed/Pipeline
 Drilling Report Type: Original

DRILLING REPORT (DGO-GO-14)

1. Drilling Data

Date drilling commenced: 7/22/2006 Drilling Contractor: NOAH HORN
 Date drilling completed: 7/26/2006 Rig Type: Rotary Cable Tool
 Driller's Total Depth (feet): 1,625
 Log Total Depth (feet): 1,591 Coal Seam At Total Depth Pocahontas

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

Permitted State Plane X 982,564 Final Plat State Plane X: 982,565
 Permitted State Plane Y: 359,209 Final Plat State Plane Y: 359,210

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
E20	E20 WELL LOCATION PLAT(FINAL).pdf

3. Geological Data

Fresh Water At:

Depth (in feet)	Rate	Unit of Measure
64	2-3	INCH

Salt Water At:

Depth (in feet)	Rate	Unit of Measure
2,285	DAMP	

Coal Seams

List of Attached Items:

Description	FileName
E20	E20 EXHIBIT A (COAL SEAMS).pdf

Gas and Oil Shows

List of Attached Items:

Description	FileName
E20	E20 GAS AND OIL SHOWS.jpg

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

List all logs run: DENSITY,GAMMA,CALIPER,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
E20	E20 PLAN VIEW-DEVIATION LOG (SURVEY).pdf

6. Casing and Tubing Program

List of Attached Items:

Description	FileName
E20	E20 CASING AND TUBING.jpg

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.

GROUTED BACKSIDE OF 9 5/8" TO SURFACE. BASKET@ 50'

8. Drillers Log

Compiled By: LESLIE ARRINGTON

List of Attached Items:

Description	FileName
E20	E20 DRILL DATA HOLE(DRILLERS LOG).pdf

9. Comments

10. Signature

Permitee: CNX Gas Company LLC Date: 1/18/2007 (Company)

Signed By: LESLIE ARRINGTON Title: MANAGER (Signature)

INTERNAL USE ONLY

Submit Date: 1/18/2007

Status: Inspr Approved

Date: 1/22/2007

Final PDF Date: 1/30/2007

BU-3047

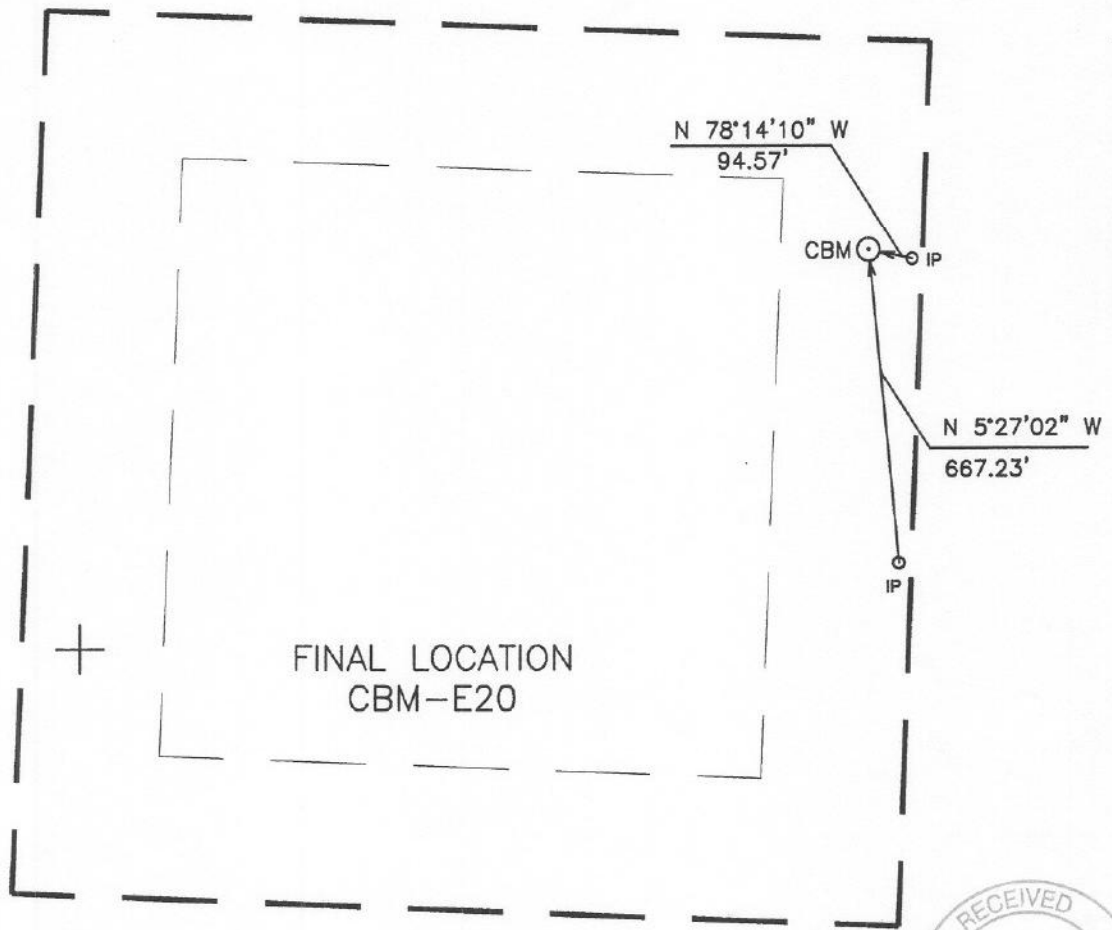
← 11,315' →

LATITUDE: 37° 17' 30"

BEARING BASIS:
VIRGINIA STATE PLANE - SOUTH ZONE - NAD'27

LONGITUDE: 81° 57' 30"

8,555'



FINAL LOCATION
CBM-E20

NOTE:
THIS WELL WAS DRILLED WITHIN 10 FT. OF PROPOSED LOCATION
ACCORDING TO 4 VAC 25-150-290 AND 45.1-361.30.



WELL LOCATION PLAT

E20FNL
1N13/71-0401/24

COMPANY CNX GAS COMPANY, LLC. WELL NAME OR NUMBER CBM-E20
 TRACT NUMBER CONSOLIDATION COAL CO ETAL QUADRANGLE PATTERSON
 DISTRICT: SOUTH GRUNDY

WELL COORDINATES (VIRGINIA STATE PLANE): STATE PLANE: N 359,209.54 E 982,564.92
 ELEVATION: 1335.96' METHOD USED TO DETERMINE ELEVATION: BY TRIG. LEVELS FROM CONSOL INC BM'S
 COUNTY BUCHANAN Scale: 1" = 400' Date 08-01-06

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 1" = 24,000', latitude and longitude lines being represented by border lines as shown (optional).

D. R. Price

 Licensed Professional Engineer or Licensed Land Surveyor (Affix Seal)

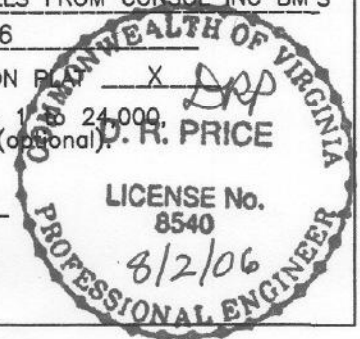


Exhibit A

Well Name: CBM-E20

SURFACE ELEV: 1335.96 EASTING: 982564.92 NORTHING: 359209.54

SEAM	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	THK. (FT)	REMARKS
	1.00	126.80	1334.96	125.80	
COAL	126.80	128.00	1209.16	1.20	
	128.00	153.80	1207.96	25.80	
T2	153.80	154.70	1182.16	0.90	
	154.70	166.20	1181.26	11.50	
T1	166.20	167.00	1169.76	0.80	
	167.00	275.60	1168.96	108.60	
US1	275.60	275.80	1060.36	0.20	
	275.80	420.50	1060.16	144.70	
GC2	420.50	421.40	915.46	0.90	
	421.40	450.50	914.56	29.10	
COAL	450.50	450.80	885.46	0.30	
	450.80	513.00	885.16	62.20	
SE2	513.00	514.40	822.96	1.40	
	514.40	532.60	821.56	18.20	
LS1	532.60	533.20	803.36	0.60	
	533.20	611.00	802.76	77.80	
*UH1	611.00	611.60	724.96	0.60	
	611.60	657.90	724.36	46.30	
*UH2	657.90	658.50	678.06	0.60	
	658.50	697.80	677.46	39.30	
*MH1	697.80	699.60	638.16	1.80	
	699.60	769.00	636.36	69.40	
*COAL	769.00	769.80	566.96	0.80	
	769.80	785.00	566.16	15.20	
*P11	785.00	787.00	550.96	2.00	
	787.00	811.10	548.96	24.10	
*P10	811.10	812.30	524.86	1.20	
	812.30	932.70	523.66	120.40	
*P91	932.70	933.60	403.26	0.90	
	933.60	933.80	402.36	0.20	
*P92	933.80	935.10	402.16	1.30	
	935.10	1011.20	400.86	76.10	
*P81	1011.20	1013.00	324.76	1.80	
	1013.00	1186.40	322.96	173.40	
*P51	1186.40	1186.70	149.56	0.30	
	1186.70	1270.20	149.26	83.50	
*P42	1270.20	1270.60	65.76	0.40	
	1270.60	1332.50	65.36	61.90	
*P3	1332.50	1336.60	3.46	4.10	
	1336.60	1406.80	-0.64	70.20	
*P01	1406.80	1407.70	-70.84	0.90	
	1407.70	1408.80	-71.74	1.10	
*COAL	1408.80	1410.00	-72.84	1.20	
	1410.00	1498.00	-74.04	88.00	
*SJ2	1498.00	1498.50	-162.04	0.50	
	1498.50	1590.81	-162.54	92.31	

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION
 COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO THE GAS
 WELL'S PROXIMITY TO DISMAL CREEK AND WATER WELL E20-7.
 GAMMA-CALIPER LOG FROM 0 TO 243.60
 GAMMA-DENSITY LOG FROM 243.60 TO TD.

FILE: C:\VP\APPS\E20.CMP

E20.CMP

8/8/2006

DATE: 08/08/06

Gas and Oil Shows

FORMATION	TOP	BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
Lee/Norton	698	1013	315	(See Below)		
Pocahontas	1332	1410	78	(See Below)		
Total IPF				No Show		

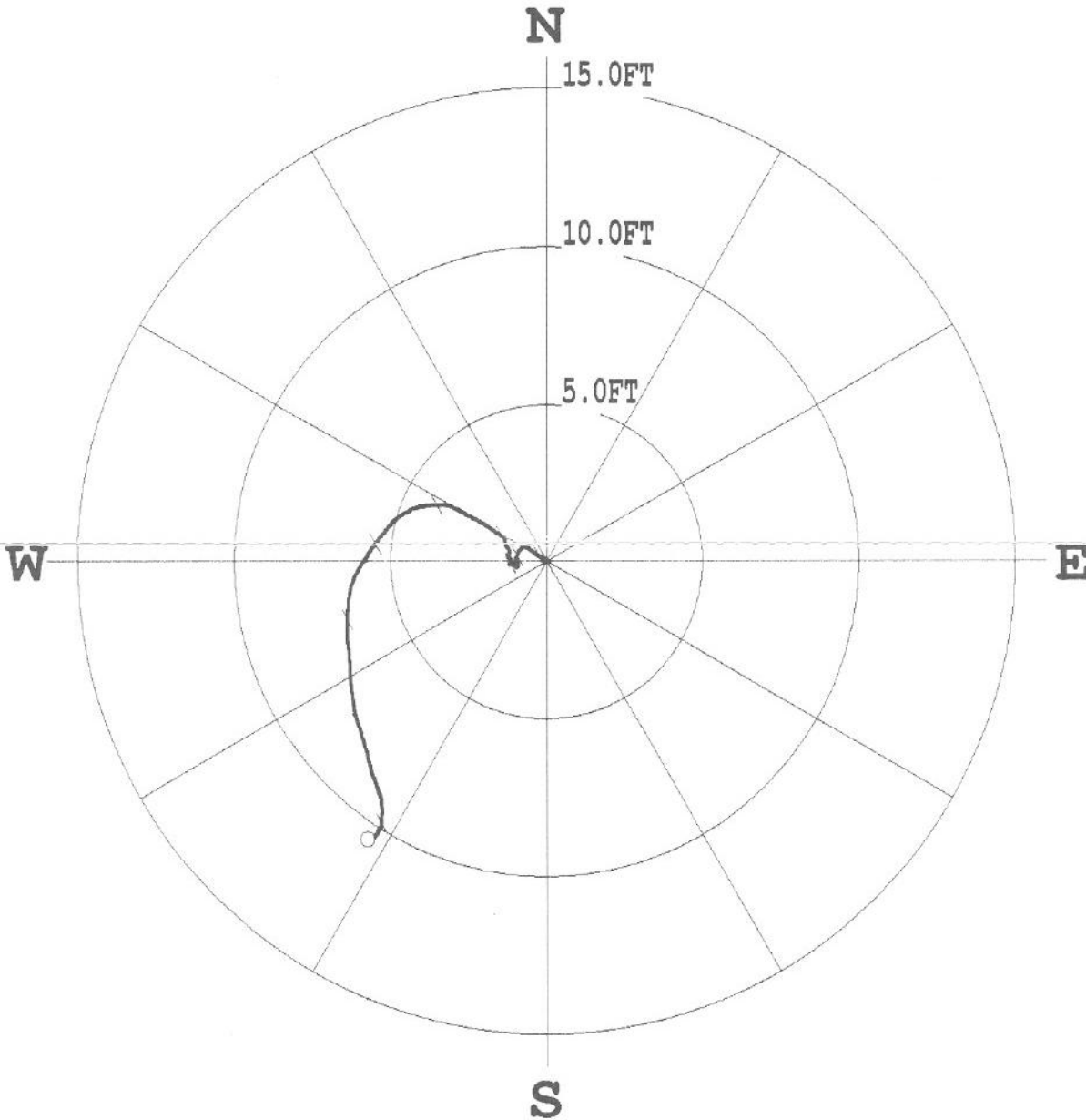
PLAN VIEW COMPU-LOG DEVIATION

CLIENT: CONSOL ENERGY
 LOCATION: -
 HOLE ID: 06-CNX-E-20
 DATE OF LOG: 07/26/06
 PROBE: 9136CH 1244



MAG DECL: -7.1

SCALE: 5 FT/IN
 TRUE DEPTH: 1590.61 FT
 AZIMUTH: 213.1
 DISTANCE: 10.5 FT
 + = 150 FT INCR
 ○ = BOTTOM OF HOLE



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

CLIENT	: CONSOL ENERGY	HOLE ID.	: 06-CNX-E-20
FIELD OFFICE	: O'DRISCOLL	DATE OF LOG	: 07/26/06
DATA FROM	: -	PROBE	: 9136CH , 1244
MAG. DECL.	: -7.100	DEPTH UNITS	: FEET
LOG: 06-CNX-E-20_07-26-06_08-05_9136CH_1_0.00_1590.80_DEVI.log			

CASING AND TUBING PROGRAM

	Casing	Casing Interval	Hole Size	Cement Used In Cu/Ft	Cemented To Surface		Date Cemented	Packers Or Bridge Plugs Kind/Size/Set
					Yes	No		
Conductor	13 3/8"	58.4'	15 1/2"		<input type="checkbox"/>	X	7-22-06	
Surface	9 5/8"	222.5'	12 3/8"	106.2 Cu/ft		X	7-23-06	Basket @ 50'
Water Protection	4 1/2"	1437.65'	6 1/2"	292.8 Cu/ft	X	<input type="checkbox"/>	7-26-06	
Coal Protection	4 1/2"	1437.65'	6 1/2"	292.8 Cu/ft	X	<input type="checkbox"/>	7-26-06	
Other Casing And Tubing Left In Well								
Liners					<input type="checkbox"/>	<input type="checkbox"/>		

REMARKS: _____

DRILL DATA HOLE-NOAH HORN WELL DRILLING, INC

COMPANY: CNX

HOLE #: E-20

LOCATION:

DRILL RIG #: 19

DATE STARTED: 07-22-06

DATED COMPLETED: 07-26-06

ELECTRIC LOGGED: YES

GROUTED: YES

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT	DESCRIPTION, VOIDS ETC	
0	58.40	58.40		
58.40	64	5.60		SANDY SHALE
64	94	30		SANDY SHALE/COAL
94	154	60		SANDY SHALE/SAND/SANDY SHALE
154	184	30		SANDY SHALE/SAND
184	214	30		SAND/SANDY SHALE/SAND
214	244	30		SAND/SANDY SHALE
244	270	26		SAND
270	300	30		SAND/SANDY SHALE
300	330	30		SANDY SHALE/SAND
330	360	30		SAND/SANDY SHALE
360	390	30		SANDY SHALE/SAND/COAL
390	420	30		SANDY SHALE/SAND
420	450	30		SAND/SANDY SHALE/SAND
450	455	5		SAND
455	485	30		SAND/SANDY SHALE/SAND
485	515	30		SAND/COAL/SANDY SHALE
515	545	30		SANDY SHALE/COAL/SANDY SHALE
545	575	30		SAND
575	605	30		SAND/COAL/SANDY SHALE
605	635	30		SANDY SHALE/SAND
635	665	30		SAND/COAL/SANDY SHALE
665	695	30		SANDY SHALE/SAND
695	725	30		SANDY SHALE
725	755	30		SANDY SHALE
755	785	30		SANDY SHALE/COAL/SANDY SHALE
785	815	30		SANDY SHALE
815	845	30		SANDY SHALE/SAND
845	875	30		SANDY SHALE/SAND/SANDY SHALE
875	905	30		SANDY SHALE/SAND
905	935	30		SANDY SHALE/COAL
935	965	30		SANDY SHALE/SAND/SANDY SHALE
965	995	30		SANDY SHALE
995	1025	30		SANDY SHALE/COAL/SANDY SHALE
1025	1055	30		SANDY SHALE/SAND
1055	1085	30		SAND/SANDY SHALE
1085	1115	30		SANDY SHALE/SAND
1115	1175	60		SAND/SANDY SHALE/SAND
1175	1205	30		SAND/COAL/SAND
1205	1265	60		SAND/SANDY SHALE/SAND
1265	1295	30		SAND/SANDY SHALE/COAL
1295	1325	30		SANDY SHALE/SAND/SANDY SHALE

1325	1355	30	SANDY SHALE/COAL/SAND (1330-1334 COAL)
1355	1385	30	SAND/SANDY SHALE
1385	1415	30	SANDY SHALE/COAL/SANDY SHALE
1415	1445	30	SANDY SHALE
1445	1475	30	SANDY SHALE/SAND
1475	1505	30	SAND/SANDY SHALE/SAND
1505	1535	30	SAND
1535	1565	30	SAND/SANDY SHALE/SAND
1565	1595	30	SAND
1595	1625	30	SANDY SHALE/RED/SHALE

1625.00 FT. TOTAL DEPTH
58.40 FT. OF 13 3/8" CASING
222.50 FT. OF 9 5/8" CASING
1437.65 FT. OF 4 1/2" CASING