

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:	546
Company:	CNX Gas Company LLC
File Number:	RU-0347
Operations Name:	CBM BE109 W/PL
Operation Type:	Coalbed/Pipeline
Drilling Report Type:	Original

DRILLING REPORT (DGO-GO-14)							
1. Drilling Data							
Date drilling commenced: 12/28/2005		 Drilling Contractor 	: NOAH HORN				
Date drilling completed:	1/3/2006	_ Rig Typ	e: 🔽 Rotary 🔲 Cable Tool				
Driller's Total Depth (feet):	2,575	_	_ · _				
Log Total Depth (feet):	2,586	Coal Seam At Tota	Depth Pocahontas				
2. Final Location Plat (as req	uired by 4 VAC2	5-150-360.C.)					
Permitted State Plane X 983	3,161	Final Plat State Pla	ne X: <u>983,162</u>				
Permitted State Plane Y: 292	2,662	Final Plat State Pla	ne Y: <u>292,661</u>				
☐ Plat Previously Submitted	Or						
List of Attached Items:							
Description FileName							
BE109 F	PLAT		BE109PLAT.pdf				
3. Geological Data							
Fresh Water At:							
Depth	(in feet)	Rate	Unit of Measure				
	1,495	DAMP					
	55	DAMP					
Salt Water At:							
Depth	(in feet)	Rate	Unit of Measure				

Form DGO-GO-14-E Rev. 1/2007

Coal Seams

List of Attached Items:

Description	FileName
BE109 SEAMS	BE109SEAMS.pdf

Gas and Oil Shows

List of Attached Items:

Description	FileName
BE109 SHOWS	BE109SHOWS.pdf

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
BE109 SURVEY	BE109SURVEY.pdf

6. Casing and Tubing Program

List of Attached Items:

Description	FileName
BE109 CASING	BE109CASING.pdf

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.

MINE VOID FROM 241'-245', 7" CASING CEMENTED TO SURFACE ON THE BACKSIDE.

8. Drillers Log

Compiled By: NOAH HORN

List of Attached Items:

Description	FileName
BE109 DRILLER'S LOG	BE109DRILL.pdf

9. Comments

PREVIOUSLY APPROVED BY DGO L. SINEMUS ON 2/13/06.

10. Signature

Permitee: CNX Gas Company LLC Date: 7/23/2007 (Company)

Signed By: LES ARRINGTON Title: MGR (Signature)

ENVIRONMENTAL/PER

MITTING

INTERNAL USE ONLY

Submit Date: 7/23/2007

Status: Inspr Approved Date: 7/24/2007

Final PDF Date: 7/24/2007

Form DGO-GO-14-E

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Rev. 1/2007

Form Rev.

١,	19[-6	RU-347
	← 8,280' —	
	BEARING BASIS: LATITUDE: 37° 07' 30" VIRGINIA STATE PLANE - SOUTH ZONE - NAD'27	
		81. 57, 30"
	N 18°53′14" W 436.82'	LONGITUDE:
	FINAL LOCATION CBM-BE109	14,345' –
1	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 PGP23/34-	
TR	OMPANY <u>CNX GAS COMPANY, LLC.</u> WELL NAME OR NUMBER <u>CBM-BE109</u> CACT NUMBER <u>BUCKHORN COAL CO</u> QUADRANGLE <u>HONAKER</u> STRICT: <u>NEW GARDEN</u>	
CO	EVATION: 2556.91' METHOD USED TO DETERMINE ELEVATION: BY TRIG. LEVELS FROM CONSTRUNTY RUSSELL Scale: 1" = 400' Date 01-05-06 IS PLAT IS A NEW PLAT ; AN UPDATED PLAT ; OR A FINAL LOCATION PLAT X Denotes the location of a well on United States Topographic Maps, scale 13, 24,000, latitude and longitude lines being represented by border lines as shown (appendix), R. F.	HOF THE PRICE
DGO- 10/9	Licensed Professional Engineer or Licensed Land Surveyor (Affix Seal) 854 -G0-7	

Well Name: 06-CNX-BE-109

SURFACE ELEV: 2556.91 EASTING: 983162.20 NORTHING: 292661.43

LB1	SEAM	DEPTH FROM (FT)	DEPTH TO (FT)	ELEVATION (TOSE)	and the second s	
LB1		0.00	51.90	2556.91	51.90	
S4.70	T ₋ B1			2505.01		
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*T1	*COAL		782.10	1774.91		
**************************************		782.10	789.60			
*TI 877.40 878.60 1679.51 1.20 **R18.60 880.00 1678.31 1.40 **COAL 880.00 880.10 1676.91 0.10 **R18.80 1676.81 1.70 **COAL 881.80 882.00 1675.11 0.20 **R2.00 1007.00 1674.91 125.00 **US1 1007.00 1007.90 1549.91 0.90 **UC1 1010.60 1010.70 1546.31 0.10 1010.70 1011.20 1546.31 0.10 **LC2 1011.20 1011.40 1545.71 0.20 **LC4 1026.50 1029.00 1530.41 2.50 1029.00 1180.90 1527.91 151.90 **GC1 1180.90 1181.20 1376.01 0.30 1181.20 1181.90 1375.71 0.70 **COAL 1181.90 1182.90 1375.01 1.00 1182.90 1183.10 1374.01 0.20 **COAL 1183.10 1184.00 1373.81 0.90 **SE1 1287.60 1288.10 1372.91 103.60 **SE2 1321.50 1324.00 1235.41 2.50 1288.10 1321.50 1268.81 33.40 **SE3 1336.80 1336.90 1220.11 0.10 **COAL 1340.00 1340.10 1225.41 2.50 1340.10 1356.60 12216.81 16.50 **COAL 1340.00 1340.10 1225.41 2.50 1340.10 1356.60 12216.81 16.50 **COAL 1340.00 1340.10 1216.91 0.10 1340.10 1356.60 1216.81 16.50 **LS1 1356.60 1357.00 1200.31 0.40 **COAL 1358.30 1422.00 1198.61 63.70 **COAL 1422.00 1422.20 1134.91 0.20	*T1					

*COAL 880.00 880.10 1676.91 0.10 880.10 881.80 1676.81 1.70 *COAL 881.80 882.00 1675.11 0.20 882.00 1007.00 1674.91 125.00 *US1 1007.00 1007.90 1549.91 0.90 1007.90 1010.60 1549.01 2.70 *LC1 1010.60 1010.70 1546.31 0.10 1010.70 1011.20 1546.31 0.10 *LC2 1011.20 1011.40 1545.71 0.20 1011.40 1026.50 1545.51 15.10 *LC4 1026.50 1029.00 1530.41 2.50 1029.00 1180.90 1527.91 151.90 *GC1 1180.90 1181.20 1376.01 0.30 1181.20 1181.90 1375.71 0.70 *COAL 1181.90 1182.90 1375.01 1.00 1182.90 1183.10 1374.01 0.20 *COAL 1183.10 1184.00 1373.81 0.90 *SE1 1287.60 1288.10 1269.31 0.50 *SE2 1321.50 1324.00 1235.41 2.50 1324.00 1336.80 1232.91 12.80 *SE3 1336.80 1336.90 1220.11 0.50 *SE3 1336.90 1340.00 1220.11 0.10 1340.10 1356.60 1216.81 16.50 *LS1 1356.60 1357.00 1200.31 0.40 *LS2 1357.00 1358.30 1199.91 1.30 *COAL 1422.00 1422.20 1134.91 0.20 *COAL 1358.30 1422.00 1198.61 63.70 *COAL 1358.30 1422.00 1198.61 63.70 *COAL 1422.00 1422.20 1134.91 0.20	*TI					
COAL **880.10** **880.10** **881.80** **882.00** 1007.00** 1007.00** 1007.90** 1007.90** 1010.60** 1010.70** 1010.60** 1010.70** 1010.70** 1011.20** 1011.20** 1011.40** 1026.50** 1029.00** 1029.00** 1180.90** 1181.20** 1181.90** 1181.90** 1181.90** 1181.90** 1181.90** 1181.90** 1181.90** 1182.90** 1183.10** 1184.00** 1288.10** 1268.81** 33.40** **SE2** 1336.80** 1336.80** 1336.90** 1220.01** 1010.10** 1340.10** 1356.60** 1216.81** 16.50** **LS1** 1356.60** 1358.30** 1199.91** 1.00** 1198.61** 63.70** **COAL** 1422.00** 1198.61** 63.70** **COAL** 1358.30** 1422.00** 1198.61** 63.70** **COAL** 1358.30** 1422.00** 1198.61** 63.70** **COAL** 1358.30** 1422.00** 1198.61** 63.70** **COAL** 1422.00** 1198.61** 63.70** 1198.61** 63.70** 1198.61** 63.70** 1198.61** 63.70** 1198.61** 120.20** 1198.61** 120.20** 1198.61** 120.20** 1198.61** 120.20** 120.20** 120.20** 120.20** 120.20** 120.20** 120.20** 120.20** 120.20** 120.20** 120.20** 120.20** 120.20** 120.20** 120.20** 120.	+0071					
*COAL 881.80 882.00 1675.11 0.20 882.00 1007.00 1674.91 125.00 *US1 1007.00 1007.90 1549.91 0.90 1007.90 1010.60 1549.01 2.70 *LC1 1010.60 1010.70 1546.31 0.10 1010.70 1011.20 1546.21 0.50 *LC2 1011.20 1011.40 1545.71 0.20 1011.40 1026.50 1545.51 15.10 *LC4 1026.50 1029.00 1530.41 2.50 1029.00 1180.90 1527.91 151.90 *GC1 1180.90 1181.20 1376.01 0.30 1181.20 1181.90 1375.71 0.70 *COAL 1181.90 1182.90 1375.01 1.00 1182.90 1183.10 1374.01 0.20 *COAL 1183.10 1184.00 1373.81 0.90 *SE1 1287.60 1288.10 1269.31 0.50 1288.10 1321.50 1268.81 33.40 *SE2 1321.50 1324.00 1235.41 2.50 1336.80 1336.80 1232.91 12.80 *SE3 1336.80 1336.80 1232.91 12.80 *SE3 1336.80 1336.90 1220.11 0.10 1340.10 1356.60 1216.91 0.10 1340.10 1356.60 1216.91 0.10 1340.10 1356.60 1216.91 0.10 1358.30 1422.00 1198.61 63.70 *COAL 1422.00 1422.20 1134.91 0.20	*COAL					
**SE1	*COAT.				0.20	
1007.90	COLL			1674.91		
*LC1	*U\$1	1007.00	1007.90			
*LC2		1007.90				
*LC2	*LC1					
*LC4 1011.40 1026.50 1545.51 15.10 *LC4 1026.50 1029.00 1530.41 2.50 1029.00 1180.90 1527.91 151.90 *GC1 1180.90 1181.20 1376.01 0.30 1181.20 1181.90 1375.71 0.70 *COAL 1181.90 1182.90 1375.01 1.00 1182.90 1183.10 1374.01 0.20 *COAL 1183.10 1184.00 1373.81 0.90 1184.00 1287.60 1372.91 103.60 *SE1 1287.60 1288.10 1269.31 0.50 1288.10 1321.50 1268.81 33.40 *SE2 1321.50 1324.00 1235.41 2.50 1324.00 1336.80 1232.91 12.80 *SE3 1336.80 1336.90 1220.11 0.10 1336.90 1340.00 1220.01 3.10 *COAL 1340.00 1340.10 1216.91 0.10 1340.10 1356.60 1216.81 16.50 *LS1 1356.60 1357.00 1200.31 0.40 *LS2 1357.00 1358.30 1199.91 1.30 1358.30 1422.00 1198.61 63.70 *COAL 1422.00 1422.20 1134.91 0.20						
*LC4	*LC2					
*GC1 1180.90 1181.20 1376.01 0.30 1181.20 1181.90 1181.20 1181.90 1375.71 0.70 1181.90 1182.90 1375.01 1.00 1182.90 1183.10 1374.01 0.20 1184.00 1287.60 1372.91 103.60 1288.10 1288.10 1269.31 0.50 1288.10 1321.50 1268.81 33.40 *SE2 1321.50 1324.00 1235.41 2.50 1324.00 1336.80 1232.91 12.80 *SE3 1336.80 1336.90 1220.11 0.10 1336.90 1340.10 1216.91 0.10 1340.10 1356.60 1216.81 16.50 *LS1 1356.60 1357.00 1200.31 0.40 *LS2 1357.00 1358.30 1422.00 1198.61 63.70 *COAL 1422.00 1422.20 1134.91 0.20	*T C4					
*GC1 1180.90 1181.20 1376.01 0.30 1181.20 1181.90 1375.71 0.70 *COAL 1181.90 1182.90 1375.01 1.00 1182.90 1183.10 1374.01 0.20 *COAL 1183.10 1184.00 1373.81 0.90 1184.00 1287.60 1372.91 103.60 *SE1 1287.60 1288.10 1269.31 0.50 1288.10 1321.50 1268.81 33.40 *SE2 1321.50 1324.00 1235.41 2.50 1324.00 1336.80 1232.91 12.80 *SE3 1336.80 1336.90 1220.11 0.10 1336.90 1340.00 1220.01 3.10 *COAL 1340.00 1340.10 1216.91 0.10 1340.10 1356.60 1216.81 16.50 *LS1 1356.60 1357.00 1200.31 0.40 *LS2 1357.00 1358.30 1199.91 1.30 1358.30 1422.00 1198.61 63.70 *COAL 1422.00 1422.20 1134.91 0.20	~DC4				151.90	
*COAL 1181.90 1182.90 1375.71 0.70 *COAL 1181.90 1182.90 1375.01 1.00 1182.90 1183.10 1374.01 0.20 *COAL 1183.10 1184.00 1373.81 0.90 1184.00 1287.60 1372.91 103.60 *SE1 1287.60 1288.10 1269.31 0.50 1288.10 1321.50 1268.81 33.40 *SE2 1321.50 1324.00 1235.41 2.50 1324.00 1336.80 1232.91 12.80 *SE3 1336.80 1336.90 1220.11 0.10 1336.90 1340.00 1220.01 3.10 *COAL 1340.00 1340.10 1216.91 0.10 1340.10 1356.60 1216.81 16.50 *LS1 1356.60 1357.00 1200.31 0.40 *LS2 1357.00 1358.30 1199.91 1.30 *COAL 1422.00 1422.20 1134.91 0.20	*GC1					
*COAL 1182.90 1183.10 1374.01 0.20 *COAL 1183.10 1184.00 1373.81 0.90 1184.00 1287.60 1372.91 103.60 *SE1 1287.60 1288.10 1269.31 0.50 1288.10 1321.50 1268.81 33.40 *SE2 1321.50 1324.00 1235.41 2.50 1324.00 1336.80 1232.91 12.80 *SE3 1336.80 1336.90 1220.11 0.10 1336.90 1340.00 1220.01 3.10 *COAL 1340.00 1340.10 1216.91 0.10 1340.10 1356.60 1216.81 16.50 *LS1 1356.60 1357.00 1200.31 0.40 *LS2 1357.00 1358.30 1199.91 1.30 *COAL 1422.00 1422.20 1134.91 0.20			1181.90			
*COAL 1183.10 1184.00 1373.81 0.90 1184.00 1287.60 1372.91 103.60 *SE1 1287.60 1288.10 1269.31 0.50 1288.10 1321.50 1268.81 33.40 *SE2 1321.50 1324.00 1235.41 2.50 1324.00 1336.80 1232.91 12.80 *SE3 1336.80 1336.90 1220.11 0.10 1336.90 1340.00 1220.01 3.10 *COAL 1340.00 1340.10 1216.91 0.10 1340.10 1356.60 1216.81 16.50 *LS1 1356.60 1357.00 1200.31 0.40 *LS2 1357.00 1358.30 1199.91 1.30 1358.30 1422.00 1198.61 63.70 *COAL 1422.00 1422.20 1134.91 0.20	*COAL					
*SE1 1287.60 1288.10 1269.31 0.50 *SE1 1288.10 1321.50 1268.81 33.40 *SE2 1321.50 1324.00 1235.41 2.50 1324.00 1336.80 1232.91 12.80 *SE3 1336.80 1336.90 1220.11 0.10 1336.90 1340.00 1220.01 3.10 *COAL 1340.00 1340.10 1216.91 0.10 1340.10 1356.60 1216.81 16.50 *LS1 1356.60 1357.00 1200.31 0.40 *LS2 1357.00 1358.30 1199.91 1.30 *COAL 1422.00 1422.20 1134.91 0.20						
*SE1 1287.60 1288.10 1269.31 0.50 1288.10 1321.50 1268.81 33.40 *SE2 1321.50 1324.00 1235.41 2.50 1324.00 1336.80 1232.91 12.80 *SE3 1336.80 1336.90 1220.11 0.10 1336.90 1340.00 1220.01 3.10 *COAL 1340.00 1340.10 1216.91 0.10 1340.10 1356.60 1216.81 16.50 *LS1 1356.60 1357.00 1200.31 0.40 *LS2 1357.00 1358.30 1199.91 1.30 1358.30 1422.00 1198.61 63.70 *COAL 1422.00 1422.20 1134.91 0.20	*COAL					
*SE2 1321.50 1324.00 1235.41 2.50 1324.00 1336.80 1232.91 12.80 *SE3 1336.80 1336.90 1220.11 0.10 1336.90 1340.00 1220.01 3.10 *COAL 1340.00 1340.10 1216.91 0.10 1340.10 1356.60 1216.81 16.50 *LS1 1356.60 1357.00 1200.31 0.40 *LS2 1357.00 1358.30 1422.00 1198.61 63.70 *COAL 1422.00 1422.20 1134.91 0.20	+077					
*SE2 1321.50 1324.00 1235.41 2.50 1324.00 1336.80 1232.91 12.80 *SE3 1336.80 1336.90 1220.11 0.10 1336.90 1340.00 1220.01 3.10 *COAL 1340.00 1340.10 1216.91 0.10 1340.10 1356.60 1216.81 16.50 *LS1 1356.60 1357.00 1200.31 0.40 *LS2 1357.00 1358.30 1199.91 1.30 1358.30 1422.00 1198.61 63.70 *COAL 1422.00 1422.20 1134.91 0.20	*SET					
*SE3	*SE2					
*SE3 1336.80 1336.90 1220.11 0.10 1336.90 1340.00 1220.01 3.10 *COAL 1340.00 1340.10 1216.91 0.10 1340.10 1356.60 1216.81 16.50 *LS1 1356.60 1357.00 1200.31 0.40 *LS2 1357.00 1358.30 1199.91 1.30 1358.30 1422.00 1198.61 63.70 *COAL 1422.00 1422.20 1134.91 0.20	DEZ				12.80	
*COAL 1336.90 1340.00 1220.01 3.10 *COAL 1340.00 1340.10 1216.91 0.10 1340.10 1356.60 1216.81 16.50 *LS1 1356.60 1357.00 1200.31 0.40 *LS2 1357.00 1358.30 1199.91 1.30 1358.30 1422.00 1198.61 63.70 *COAL 1422.00 1422.20 1134.91 0.20	*SE3		1336.90	1220.11		
1340.10 1356.60 1216.81 16.50 *LS1 1356.60 1357.00 1200.31 0.40 *LS2 1357.00 1358.30 1199.91 1.30 1358.30 1422.00 1198.61 63.70 *COAL 1422.00 1422.20 1134.91 0.20		1336.90				
*LS1 1356.60 1357.00 1200.31 0.40 *LS2 1357.00 1358.30 1199.91 1.30 1358.30 1422.00 1198.61 63.70 *COAL 1422.00 1422.20 1134.91 0.20	*COAL					
*LS2 1357.00 1358.30 1199.91 1.30 1358.30 1422.00 1198.61 63.70 *COAL 1422.00 1422.20 1134.91 0.20						
1358.30 1422.00 1198.61 63.70 *COAL 1422.00 1422.20 1134.91 0.20						
*COAL 1422.00 1422.20 1134.91 0.20	*LS2					
COAL 1122100 111111	+0077					
	~ CUAL					

			3133 61	1.70
*LS3	1423.00	1424.70	1133.91	45.30
	1424.70	1470.00	1132.21	1.90
*UH2	1470.00	1471.90	1086.91	18.90
	1471.90	1490.80	1085.01	1.10
*UH3	1490.80	1491.90	1066.11 1065.01	38.10
	1491.90	1530.00		1.40
*MH1	1530.00	1531.40	1026.91	82.80
	1531.40	1614.20	1025.51	0.10
*COAL	1614.20	1614.30	942.71	63.60
	1614.30	1677.90	942.61	2.50
*P11	1677.90	1680.40	879.01	15.60
	1680.40	1696.00	876.51	
*P10	1696.00	1697.70	860.91	1.70
	1697.70	1720.10	859.21	22.40 1.40
*LH1	1720.10	1721.50	836.81	
	1 721.50	1727.80	835.41	6.30 1.10
*LH2	1727.80	1728.90	829.11	
	1728.90	1730.00	828.01	1.10 0.10
*COAL	1730.00	1730.10	826.91	
	1730.10	1764.00	826.81	33.90
*P91	1764.00	1764.70	792.91	0.70
*P92	1764.70	1765.90	792.21	1.20
	1765.90	1820.90	791.01	55.00
*P81	1820.90	1822.90	736.01	2.00
	1822.90	1824.00	734.01	1.10
*P82	1824.00	1824.60	732.91	0.60
	1824.60	1826.00	732.31	1.40
*P71	1826.00	1826.50	730.91	0.50
	1826.50	1863.90	730.41	37.40
*COAL	1863.90	1864.30	693.01	0.40
	1864.30	1866.00	692.61	1.70
*COAL	1866.00	1866.50	690.91	0.50
	1866.50	1868.90	690.41	2.40
*COAL	1868.90	1869.00	688.01	0.10
	1869.00	1947.30	687.91	78.30
*P72	1947.30	1949.00	609.61	1.70
	1949.00	1971.90	607.91	22.90
*COAL	1971.90	1972.00	585.01	0.10
	1972.00	1972.50	584.91	0.50
*COAL	1972.50	1972.90	584.41	0.40
	1972.90	1987.70	584.01	14.80
*COAL	1987.70	1988.00	569.21	0.30
	1988.00	2086.00	568.91	98.00
*P61	2086.00	2086.50	470.91	0.50
	2086.50	2139.50	470.41	53.00
*P51	2139.50	2140.10	417.41	0.60
	2140.10	2141.00	416.81	0.90
*COAL	2141.00	2141.10	415.91	0.10
	2141.10	2152.20	415.81	11.10
*P52	2152.20	2152.30	404.71	0.10
	2152.30	2212.10	404.61	59.80
*P41	2212.10	2212.20	344.81	0.10
	2212.20	2213.00	344.71	0.80
*COAL	2213.00	2213.10	343.91	0.10
	2213.10	2213.90	343.81	0.80
*COAL	2213.90	2214.00	343.01	0.10
	2214.00	2219.50	342.91	5.50
*P42	2219.50	2219.60	337.41	0.10
	2219.60	2308.00	337.31	88.40
*P31	2308.00	2309.40	248.91	1.40
*P32	2309.40	2310.30	247.51	0.90
	2310.30	2346.90	246.61	36.60
*P34	2346.90	2347.90	210.01	1.00
	2347.90	2449.80	209.01	101.90
*P01	2449.80	2449.90	107.11	0.10
141	2449.90	2586.06	107.01	136.16
	_117.70			

NOTE: FOOTAGE NOT ADJUSTED FOR DEVIATION

COAL SEAMS TO BE STIMULATED WERE ADJUSTED DUE TO THE GAS WELL'S PROXIMITY TO FLATROCK CREEK. GAMMA-CALIPER LOG FROM 0 TO 303.00 GAMMA-DENSITY LOG FROM 303.00 TO TD.

FILE: C:\VP\GAS\BE109.CMP

DATE: 01/20/06

Gas and Oil Shows

				IPF		HOURS
FORMATION	ТОР	BOTTOM	THICKNESS	(MCFD/BOPD)	PRESSURE	TESTED
Lee/Norton	877	1823	946	No Show		
Pocahontas	1947	2348	401	No Show		

PLAN VIEW COMPU-LOG DEVIATION

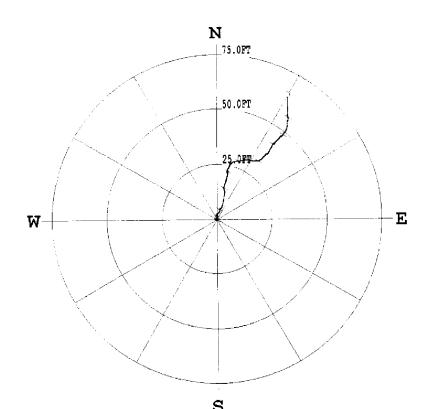
LIENT: Consol Energy

OCATION:

OLE ID: 05-CNX-BE-109 ATE OF LOG: 01/03/06 ROBE: 9136CA 955 MAG DECL: -6.9

SCALE: 25 FT/IN TRUE DEPTH: 2574.22 FT

AZIMUTH: 29.8
DISTANCE: 64.7 FT
+ = 300 FT INCR
= BOTTOM OF HOLE



CLIENT : Consol Energy HOLE ID. : 05-CNX-BE-109 FIELD OFFICE : Vansant, Va DATE OF LOG : 01/03/06

DATA FROM : PROBE : 9136CA , 955

MAG. DECL. : -6.900 DEPTH UNITS : FEET

LCG: 05-CNX-BE-109_01-03-06_10-14_9136CA_.02_+0.02_2576.04_DEVI.log

CABLE DEPTH	TRUE DEPTH	MORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
50.0	49.99	0.27	-0.19	0.3	325.1	1.4	1.9
60.0	59.99	0.47	-0.12	0.5	345.3	1.2	34.4
70.0	69.39	0.68	-0.03	0.7	357.3	1.3	47.0
80.0	79.98	0.86	0.03	0.9	2.1	1.3	323.6
90.0	89.98	1.10	0.07	1.1	3.6	1.5	32.1
100.0	99.96	1.25	0.24	1.3	10.8	1.1	72.0
110.0	109.97	1.44	0.19	1.5	7.4	1.7	369.9
120.0	119.97	1.75	J.07	1.7	2.4	1.8	338.0
130.0	129.98	1.77	-0.03	1.8	359.1	1.0	204.7
140.0	139.96	1.63	-0.13	1.6	355.6	0.9	201.7
150.0	149.96	1.63	-0.33	1.7	348.7	1.3	305.3
160.0	159.95	1.73	-0.54	1.8	342.8	0.9	112.7
170.0	169.95	1.77	-0.40	1.8	347.4	0.9	130.1
180.0	179.95	1.75	-0.28	1.8	350.8	0.9	55.9
190.0	189.95	1,93	-0.12	1.9	356.5	2.4	17.1
200.0	199.94	2.28	0.00	2.3	0.1	1.7	47.3
210.0	209.94	2.48	0.24	2.5	5.4	1.6	56.7
220.0	219.93	2.62	0.45	2.7	9.3	1.2	69.C
230.0	229.93	2.73	0.86	2.8	13.6	1.8	47.5
240.0	239.92	3.04	0.87	3.2	16.0	0.0	0.0
250.0	249.92	3.12	0.90	3.2	16.0	2.1	23.6

14U.U	305.54	J.04	0.07	J•=	10.0	0.0	.0.1	
250.0	249.92	3.12	0.90	3.2	16.0	2.1	23.6	
260.0	259.91	3.40	1.06	3.6	17.3	2.1	10.7	
					16.8	2.1	8.5	
270.0	269.91	3.74	1.13	3.9				
280.0	279.90	4.11	1.03	4.2	14.1	2.2	344.9	
290.0	289.89	4.13	1.24	4.3	16.7	2.1	108.2	
300.0	299.89	4.26	1.39	4.5 4.5	18.1	1.5	50.2	•
310.0	3)9.89	4.3€	1.23	4.5	15.7	1.2	287.3	
320.0	319.88	4.69	1.43	4.9	16.9	2.3	125.9	
330.0	329.87	4.57	1.72	4.9	20.6	1.9	23.5	
						1.9	30.6	
340.0	339.86	4.87	1.84	5.2	20.7			
350.0	349.86	5.19	2.01	5.6	21.2	2.2	21.8	
360.0	359.85	5.54	2.16	5.9	21.3	2.1	13.5	
370.0	369.84	5.90	2.26	6.3	21.0	2.4	31.1	
380.0	379.83	6 . 29	2.43	6.7	21.1	2.7	12.5	
		6.74	2.55	7.2	20.7	2.6	6.6	
390.0	389.82							
400.0	399.81	7.17	2.65	7.6	20.3	2.5	18.5	
410.0	409.80	7.62	2.77	8.1	20.0	2.7	17.5	
420.0	419.79	8.04	2.86	8.5	19.5	2.7	62.3	
430.0	429.78	8.42	2,95	8.9	19.3	2.4	328.5	
440.0	439.77	8.76	3.10	9.3	19.5	2.7	20.8	
			3.13	9.7	18.9	2.4	22.6	
450.0	449.76	9.18						
460.C	459.75	9.57	3.19	10.1	18.4	2.3	358.2	
470.0	469.74	9.97	3.18	10.5	17.7	2.5	19.6	
480.0	479.73	10.42	3.24	10.9	17.3	2.6	10.2	
490.0	469.72	10.86	3.36	11.4	17.2	2.5	359.8	
500.0	499.71	11.28	3.46	11.8	17.1	2.6	18.0	
	509.70	11.71	3.54	12.2	16.8	2.4	18.7	
510.0								
520.0	519.69	12.11	3.71	12.7	17.0	2.6	17.2	
530.0	529.68	12.53	3.79	13.1	16.8	2.3	12.4	
540.0	539.68	12.34	3.56	12.8	16.1	3.0	274.5	
550.0	549.66	12.52	3.28	12.9	14.7	2.4	11.8	
560.0	559.66	12.87	3.41	13.3	14.6	2.2	359.0	
					13.5	2.5	300.0	
570.0	569.68	13.15	3.16	13.5				
580.0	579.64	13.44	3.24	13.8	13.6	1.8	358.3	
590.0	589.64	13.73	3.18	14.1	13.0	1.6	0.3	
600.0	599.63	13.99	3.05	14.3	12.3	1.7	301.5	
610.0	609.63	14.24	3.03	14.6		1.9	24.1	
	619.62	14.50	3.16	14.8	10.4	1.6		
620.3							-16.5	
030.U	629 . 02	14772	3.20		iz.5			
64J.C	639.62	14.95	3.32	15.3	12.5	1.5	19.5	
650.0	649.61	15.22	3.46	15.6	12.8	1.9		
660.0	659.61	15.51	3.55	15.9	12.9	1.9	33.7	
670.0	669.60	15.82	3.67	16.2	13.1	1.9	23.4	
680.0	679.59	16.15	3.81	16.6	13.3	2.0	33.2	
690.0	689.59	16.41	3.93	16.9	13.5	1.8		
700.0	699.58	16.69	4.01	17.2	13.5	2.1	7.4	
				17.5	13.4	2.1	12.1	
710.0	709.58	17.03	4.07					
720.0	719.57	17.35	4.26	17.9	13.8	2.1	12.9	
730.0	729.56	17.64	4.26	18.2	13.5	2.1	65.1	
740.0	739.56	18.00	4.33	1∂.5	13.5	2.0	2.9	
750.0	749.55	18.36	4.44	18.9	13.6	2.1	13.5	
	759.54	18.70	4.54	19.0	13.7	2.0	17.3	
760.0					13.5	1.8	21.6	
770.0	769.54	19.03	4.58	19.6				
780.0	779.53	19.35	4.67	19.9	13.6	2.1	9.5	
790.0	789.52	19.70	4.75	20.3	13.5	2.1	16.4	
800.0	799.52	20.06	4.80	20.6	13.5	2.0	2.8	
810.0	809.51	20.40	4.88	21.0	13.5	2.0	16.3	
			4.96	21.3	13.4	2.0	1.4	
820.0	819.51	20.75						
830.0	829.50	21.08	5.04	21.7	13.4	2.0	11.1	
840.0	839.49	21.41	5.13	22.0	13.5	1.9	5.7	1
850.0	849.49	21.27	5.00	21.8	13.2	2.8	223.0	į
860.0	859.48	21.17	4.84	21.7	12.9	2.1	160.4	
070.0	060 47	21 02	4 A3	21 6	12.9		209.0	

870.0	869,47	21.03	4.83	21.6	12.9	3.3 209.0	
880 . 0	879.46	20.92	4.54	21.4	12.9	2.2 335.0	
890.0	889.45	21.27	4.63	21.8	12.3	2.2 333.0	
900.0	899.44	21.60	4.65	22.1	12.2	2.0 25.1	
910.0	909.44	21,92	4.78	22.4	12.3	1.9 348.8	
920.0	919.43	22.11	4.95	22.7	12.6	2.0 63.5	
930.0	929.43	22.33	4.86	22.9	12.3	1.5 356.3	
940.0 950.0	939.42	22.60	4.99	23.1	12.4	1.9 26.4	
960.0	949.42 959.41	22.90 23.17	5.12	23.5	12.6	1.8 23.6	
970.0	969.41	23.47	5.28 5.40	23.8	12.8	$\frac{1.9}{1.0} - \frac{28.8}{30.0}$	
980.0	979.40	23.72	5.59	24.1 24.4	13.0 13.3	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
990.0	989.40	24.00	5.71	24.7	13.4	1.9 11.7 1.9 29.0	
1000.0	999.39	24.29	5.88	25.0	13.4	1.9 39.7	
1010.0	1009.39	24.50	5.90	25.2	13.5	1.6 282.8	
1000.0	1019.38	24.75	5.90	25.4	13.4	2.3 38.9 2.3 37.4	
1030.0 1040.)	1029.37 1039.36	25.13	6.10	23.9	13.6		
1050.0	1049.35	25.01 25.14	6.27 6.43	25.8	14.1	2.3 139.2	
1060.0	1059.35	25.35	6.64	26.0 26.2	14.4 14.7	1.6 47.1	
1070.0	1069.35	25.50	6.82	26.4	15.0	1.5 36.8 1.4 58.8	
1080.)	1079.34	25.64	7.02	26.6	15.3	1.3 49.8	
1090.0	1089.34	23.73	7.20	26.7	15.6	1.2 62.9	
1100.0	1099.34	25.82	7.39	26.9	16.0	1.3 74.3	
1110.0	1109.34	25.90	7.59	27.0	16.3	1.3 78.3	
1120.0	1119.33	25.97	7.80	27.1	16.7	1.3 72.8	
1130.0	1129.33	26.03	9.01	27.2	17.1	1.3 78.0	
1140.0 1150.0	1139.33 1149.33	26.37	8.22	27.3	17.5	1.1 83.5	
1160.0	1159.33	26.09 26.10	8.42	27.4	17.9	1.2 69.6	
1170.0	1169.32	26.16	8.62 8.82	27.5 27.6	18.3	1.1 99.0	
1180.0	1179.32	26.16	9.04	27.0	18.6 19.1	1.1 63.0 1.4 81.9	
1190.0	1189.32	26.24	9.27	27.8	19.5	1.4 81.9 1.4 94.3	
1200.0	1199.31	26.26	9.53	27.9	19.9	1.4 85.8	
1210.)	1209.31	26.29	9.77	28.1	20.4	1.6 95.5	
1220.0	1219.31	26.35	10.02	28.2	20.8	1.3 78.5	
1230.0	1229.31	25.34	10.26	23.3	21.3	1.6 90.1	
1240.0 1250.0	1239.30	26.38	10.54	28.4	21.8	1.5 80.4	
1250.0	1249.30 1259.29	26.43 26.44	10.79	28.5	22.2	1.4 83.5	
1276.0	1269.29	26.47	11.04 11.32	28.7 28.6	22.7 23.2	1.6 79.4	
1280.0	1279.29	26.50	11.62	28.9	23.7	1.6 82.4 1.8 94.1	
1290.0	1289.28	26.53	11.90	29.1	24.2	1.6 73.0	
1300.0	1200.110		12.17	24.2		1.6 76.9	
1310.0	1309.27	26.60	12.49	29.4	25.2	1.9 72.9	
1320.0	1319.27	26.65	12.79	29.6	25.6	1.9 86.3	
1330.0	1329.28	26.69	13.09	29.7	26.1	1.8 85.3	
1340.0 1350.0	1339.26 1349.25	26.67	13.40	29.8	26.7	2.0 95.0	
1360.0	1359.25	26.76 26.69	13.67 13.94	30.1	27.1	1.8 105.6	
1370.0		26.73	13.84 14.20	30.1 30.3	27.6 28.0	1.6 54.7	
1380.0	1369.24 1379.24	26.70	14.58	30.3 30.4	28.5	1.9 84.8 1.8 102.8	
1390.0	1389.24	26.63	14.60	30.5	29.1	1.9 108.5	
1400.0	1399.23	26.54	15.13	30.5	29.7	1.9 99.9	
1410.0 1420.0	1409.22	26.48	15.45	30.7	30.3	1.9 112.1	
1430.0	1419.22	26.45	15.77	30.8	30.8	1.9 107.6	
1440.0	1429.21 1439.20	26.39 26.37	16.11 16.50	30.9 31.1	31.4	2.2 99.0	
1450.0	1449.20	26.29	16.50 16.89	31.1 31.2	32.0	2.0 98.7	
1460.0	1459.19	26.26	17.30	31.4	32.7 33.4	2.5 65.9 2.3 93.5	;
1470.0	1469.18	26.19	17.70	31.6	34.1	2.3 93.5 2.3 92.6	
1480.0	1479.17	26.20	18.07	31.8	34.6	2.0 80.8	
1490.0	1489.17	26.18	18.40	32.0	35.1	1.8 90.1	

1460.0	1459.19	28.26	17.30	31.4	33.4	2.3 93.5
1470.0	1469.18	26.19	17.76	31.6	34.1	2.3 92.6
1480.0	1479.17	26.20	18.07	31.8	34.6	2.0 80.8
1490.0	1489.17	26.18	18.40	32.0	35.1	1.8 90.1
1500.0	1499.16	26.20	18.68	32.2	35.5	1.7 77.7
1510.0	1509.16	26.16	18.91	32.3	35.9	1.5 72.4
1520.0	1519.16	26.34	19.02	30.5	35.8	1.2 61.9
1530.0	1529.15	26.42	19.24	32.7	36.1	1.4 101.4
1540.0	1539.15	26.54 26.67	19.48	32.9	36.3	1.6 70.4
1550.0 1560.0	1549.14 1559.14	26.84	19.76 19.98	33.2 33.5	36.5 36.7	1.8 44.1 1.7 64.0
1570.0	1569.14	27.02	20.23	33.8	36.8	1.9 48.9
1580.0	1579.13	27.24	20.47	34.1	36.9	2.0 55.6
1590.0	1589.12	27.46	20.73	34.4	37.0	2.0 48.2
1600.0	1599.12	27.75	20.36	34.8	37.1	2.3 34.5
1610.0	1609.11	28.00	21.27	35.2	37.2	2.3 30.0
1620.0	1619.10	28.32	21.52	35.6	37.2	2.4 51.0
1630.0	1629.09	28.57	21.83	36.0	37.4	2.4 76.7
1640.0	1639.08	28.84	21.94	36.2	<i>3</i> 7.3	2.0 5.6
1650.0	1649.08	29.12	22.18	36.6	37.3	2.3 33.4
1660.0	1659.07	29.43	22.40	37.0	37.3	2.1 32.0
1670.0	1669.06	29.48	22.69	37.2	37.6	2.4 135.5
1680.0	1679.05	29.35	23.01	37.3	38.1	2.5 49.7
1690.0 1700.0	1689.04 1699.03	29.74 30.15	23.23 23.49	37.7 38.2	38.0 37.9	2.8 45.5 2.9 20.8
1700.C 1710.C	1709.02	30.15	23.78	36.7	37.9 37.9	2.7 27.7
1720.0	1719.01	30.95	23.96	39.1	37.7	2.7 34.2
	1729.00	31.34	24.18	39.6	37 . 7	2.5 54.0
1730.3 1740.3	1738.99	31 : 73	24.33	40.0	37 . 5	2.7 16.4
1750.0	1748.96	32.12	24.60	40.5	37.4	2.6 38.0
1760.0	1756.97	32.51	24.78	40.9	37.3	2,6 8.2
1770.0	1768.96	32.87	24.95	41.3	37.2	2.5 354.6
1780.0	1778.95	33.20	25.13	41.7	37.2	2.4 21.3
1790.0	1788.94	33.55	25.32	42.1	37.0	2.4 25.9 2.3 56.0
1800.0 1810.0	1798.93 1808.92	33.94 34.22	25.47 25.71	42.4 42.8	36.9 36.9	2.4 96.5
1820.0	1818.91	34.17	25.99	42.9	37.3	2.6 184.4
1830.0	1828.90	34.16	26.17	43.0	37.5	1.6 61.6
1840.0	1836.90	34.41	26.27	43.3	37.4	1.7 353.6
1850.0	1848.89	34.68	26.46	43.6	37.3	2.0 28.3
1860.0	1858.59	34.67	26.61	43.7	37.5	1.8 211.5
1870.0	1868.68	34.49	28.45	43.5	37.5	2.7 168.8
1830.0	1878.87	34.59	26.57	43.6	37.5	1.8 53.6
1890.0	1868.87		26.75	43.9	37.5	1.6 20.0
1900.0	1898.86	35.07	26.95	44.2	37.5	1.8 45.3
1910.0	1908.86	35.31	27.12	44.5	37.5	1.5 17.5
1920.0	1918.36	35.49	27.29	44.8	37.6	1.5 85.1
1930.0	1928.85	35.60	27.50	45.0	37.7	1.3 65.1
1940.0 1950.0	1938.85 1948.84	35.65 35.63	27.69 27.57	45.1 45.1	37.8 37.7	1.8 22.3 3.0 163.9
1960.0	1958.84	35.78	27.68	45.2	37.7 37.7	2.0 36.4
1970.0	1968,83	35.00	27.96	표 년 • 스 7 등 및 중	যুদ ু ল	2.4 62.3
1980.0	1978.62	36.30	28.14	45.9	37 . 8	1.9 36.9
1990.0	1988.82	36.56	28.37	46.3	37.8	2.0 40.8
2000.0	1998.81	36.83	28.59	46.6	37.6	2.0 40.3
2010.0	2008.81	37.06	28.84	47.0	37.9	2.1 77.2
2020.0	2018.80	37,32	29.00	47.3	37.8	1.8 22.7
2030.0	2028.80	37.58	29.18	47.6	37.8	1.9 41.0
2040.0	2038.79	37.38	29.34	47.5	38.1	1.9 190.9
2050.0	2048.78	37.62	29.31	47.7	37.9	2.5 3.2
2060.0	2058.77	37.53	29.62	47.8	38.3	2.3 78.5
2070.0	2068.76	37.83	29.90	48.2	38.3	2.4 29.2
2080.0	2078.76	ጓጸ.16	30.12	48.6	38.3	2.3 41.9

2020.0 2018.90 37.32 29.00 47.3 37.6 1.8 22.7 2030.0 2028.00 37.58 29.18 47.6 27.8 1.9 41.0 2081.0 2046.6 2038.79 37.38 29.34 47.5 38.11 1.9 190.9 2081.0 2046.6 37.62 29.31 47.7 37.9 2.6 3.2 2066.6 2083.79 37.53 25.02 47.8 38.3 2.3 78.5 3.2 277.0 2066.76 37.63 29.00 46.2 38.3 2.3 78.5 3.2 277.0 2066.76 37.63 29.00 46.2 38.3 2.4 29.2 2088.0 2087.78 38.77 30.35 25.02 47.8 38.3 2.3 78.5 2060.0 2078.78 38.77 30.35 48.6 38.3 2.3 78.5 2100.0 2078.78 38.77 30.35 49.0 48.6 38.3 2.4 29.2 2088.0 2098.78 38.77 30.35 49.0 48.6 38.3 2.4 29.2 210.0 20.3 210.0 210.8 43 80.2 30.2 48.8 58.4 29.2 75.5 2100.0 20.8 14.8 438.2 30.11 49.7 29.2 11.1 178.3 2100.0 210.8 14 38.2 30.11 49.7 29.2 11.1 178.3 2100.0 210.8 14 38.2 30.1 49.7 29.2 11.1 178.3 210.0 210.8 12 38.2 30.5 49.4 49.1 36.0 2.2 11.1 178.3 210.0 210.8 12 38.2 30.5 50.6 44.9 1.3 36.0 2.2 11.1 18.9 21.3 30.1 21.3 30.1 21.2 38.0 2 50.6 44.9 1.3 36.0 2 20.2 18.9 21.3 30.1 31.2 17.7 24.8 38.2 30.1 30.4 49.1 36.0 2.2 11.1 18.9 21.3 30.0 21.2 38.0 2 50.6 44.9 1.3 36.0 2 20.1 18.9 21.3 30.0 21.2 38.0 2 50.6 44.9 1.3 36.0 2 20.1 18.9 21.3 30.0 21.2 30.76 69.9 40.1 1.2 0.1 18.9 21.3 30.0 21.2 30.7 69.9 40.1 1.2 0.1 18.9 21.3 30.2 20.8 30.7 7 49.8 38.2 1.1 2.9 102.2 21.3 30.0 21.2 30.7 6 69.9 40.1 1.2 1.1 18.5 21.2 30.0 21.2 30.1 30.1 1.3 30.5 30.2 50.4 49.1 36.2 21.1 18.9 21.2 30.0 21.2 30.1 30.1 1.3 30.1 1.3 30.5 30.2 50.4 49.1 30.1 1.3 30.1 18.9 21.3 11.4 30.2 20.2 20.2 30.2 30.4 30.4 30.4 30.4 30.4 30.4 30.4 30.4	2010.0	2000.01	31.00	20101	1100		,
2046.0	2020.0	2018.80	37.32	29.00	47.3	37.8	1.8 22.7
2080.0	2030.0	2028.80	37.58	29.18	47.6	37.8	
2050.0 2046.78 37.62 28.31 47.7 37.9 2.5 3.2 2060.0 2058.77 37.83 28.60 47.6 38.3 2.4 29.2 2077.0 2058.76 37.83 28.90 48.2 38.3 2.4 29.2 2080.0 2078.78 38.16 30.12 48.6 38.3 2.4 29.2 2080.0 2078.78 38.16 30.12 48.6 38.3 2.4 29.2 75.3 2070.0 2058.76 38.47 30.37 44.0 38.3 2.4 19.9 2090.0 2086.77 38.47 38.47 30.37 44.0 38.2 2.7 75.3 20.2 20.2 48.8 38.4 2.1 30.1 2120.0 2108.74 88.2 30.28 48.8 38.4 2.1 30.1 2120.0 2108.74 38.32 30.28 48.8 38.4 2.1 30.1 2120.0 2108.74 38.30 30.54 49.5 38.4 2.1 2.0 16.1 2120.0 2108.72 38.93 30.54 49.5 38.1 2.0 16.1 2120.0 2148.71 39.6 30.75 49.8 38.1 2.0 16.9 2144.0 2138.72 38.93 30.54 49.5 38.1 2.0 16.9 2144.0 2138.72 38.93 30.54 49.5 38.1 2.0 16.9 2144.0 2138.72 38.93 30.54 49.5 38.1 2.0 16.9 2140.0 2148.71 39.6 30.27 49.9 54.4 1.4 358.7 2160.0 2148.71 39.36 31.09 50.3 38.2 10.1 14.4 2180.0 2148.71 39.3 38.8 30.27 49.9 38.4 1.4 2.5 38.2 2170.0 2168.71 33.8 38.8 31.20 50.3 38.2 10.1 14.4 2180.0 2176.70 33.8 1 31.14 50.5 38.0 1.5 27.7 2200.0 2138.76 38.8 31.26 50.7 38.1 0.2 200.0 2138.76 38.8 31.26 50.7 38.1 0.2 10.7 2200.0 2228.66 40.42 31.42 51.1 38.0 2.0 19.6 2220.0 2228.66 40.42 31.42 51.1 38.0 2.0 19.6 2220.0 2228.66 40.48 31.56 51.3 38.0 1.5 2.7 19.6 2220.0 2228.66 40.48 31.56 51.3 38.0 1.5 30.7 38.1 0.2 10.7 19.6 2220.0 2228.66 40.48 31.56 51.3 38.7 10.2 20.1 19.6 2220.0 2228.66 40.48 31.56 51.3 38.7 10.2 20.1 19.6 2220.0 2228.66 40.48 31.56 51.3 38.7 10.2 20.0 19.6 2238.66 41.8 30.5 20.7 39.5 10.5 30.7 38.1 0.2 30.7 19.6 2230.0 2228.66 40.48 31.56 51.3 38.7 10.2 20.7 19.6 2230.0 2238.66 41.8 30.5 20.7 30.7 30.7 50.7 50.7 50.7 50.7 50.7 50.7 50.7 5	2040.0	2038.79	37.38	29.34	47.5	38.1	
200.0		2048.78	37.62	29.31	47.7	37.9	2.5 3.2
270.0		2058.77	37.53	29.62	47.8	38.3	2.3 78.5
2000.0 2008.76 33.16 30.12 48.6 38.3 2.5 41.8			37.53	29.90	48.2	38.3	2.4 29.2
200.0				30.12	48.6	38.3	2.3 41.9
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2170.0			39.31	31.02	50.1	38.3	1.5 354.0
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25/6.0 75/4.72 50.16 32.10 04.7 29.5 4.7 2.1							
	2576.0	7 57 4 . 17 E	56.lb	32.10	04./	.1억•첫	4.7

CASING AND TUBING PROGRAM

				Cement	Cem	ented		Packers Or
		Casing	Hole	Used In	To St	ırface	Date	Bridge Plugs
	Casing	Interval	Size	Cu/Ft	Yes	No	Cemented	Kind/Size/Set
Conductor	13 3/8"	38.35'	16"			X	12-28-05	
Surface	7"	287.2'	8 7/8"	70.8 Cu/ft		X	12-29-05	Basket @ 221'
Water Protection	4 1/2"	2370'	6 ½"	353.8 Cu/ft	X		1-3-06	
Coal Protection	4 1/2"	2370'	6 ½"	353.8 Cu/ft	X		1-3-0 6	
Other Casing And								
Tubing Left In								
Well								
Liners								

DRILL DATA HOLE-NOAH HORN WELL DRILLING, INC

COMPANY:

CNX

HOLE #: BE-109

LOCATION:

DRILL RIG #: 17

DATE STARTED: 12-28-05

DATED COMPLETED: 01-03-06

ELECTRIC LOGGED:YES GROUTED:YES

DEPTH	THICKNE	SS	STRATA REMARKS
			THE COMPTION VOIDS FIRST
FROM	TO	FT	DESCRIPTION, VOIDS ETC
0	38	38	OVERBURDEN
38	85	47	SAND/SANDY SHALE
85	115	30	SAND/COAL/SANDY SHALE
115	145	30	SAND/SANDY SHALE
145	175	30	SANDY SHALE/SAND/SANDY SHALE
175	205	30	SAND/COAL/SANDY SHALE
205	232	27	SAND STONE/SAND
232	235	3	VOID
235	265	30	SANDY SHALE/SAND
265	295	30	SAND/SANDY SHALE/SAND
295	310	15	SAND/SANDY SHALE
310	325	15	SAND/SANDY SHALE
325	355	30	SANDY SHALE
355	385	30	SANDY SHALE/COAL/SHALE
385	415	30	SHALE
415	445	30	SANDY SHALE/COAL/SANDY SHALE
445	475	30	SHALE
475	505	30	SHALE/SANDY SHALE/SHALE
505	535	30	SANDY SHALE
535	565	30	SANDY SHALE/COAL/SHALE
565	595	30	SHALE/COAL/SANDY SHALE
595	625	30	SANDY SHALE
625	655	30	SANDY SHALE/SHALE
655	685	30	SAND/SANDY SHALE
685	715	30	SANDY SHALE/COAL/SANDY SHALE
715	745	30	SAND/SANDY SHALE/COAL
715 745	775	30	SAND STONE
743 775	805	30	SAND/SANDY SHALE /COAL /SAND
805	865	60	SAND/SANDY SHALE/SAND
865	895	30	SAND/SANDY SHALE/COAL
895	925	30	SANDY SHALE/SAND
925	955	30	SAND/SANDY SHALE/SAND
923 955	985	30	SANDY SHALE/SAND
	1015	30	SAND/COAL/SANDY SHALE
985	1045	30	SANDY SHALE/COAL/SANDY SHALE
1015	1075	30	SANDY SHALE/SAND
1045	1105	30	SAND/SANDY SHALE
1075	1135	30	SANDY SHALE/COAL/SAND
1105	1165	30	SAND STONE
1135		30	SAND/COAL/SANDY SHALE
1165	1195	30 30	SANDY SHALE/SAND/SANDY SHALE
1195	1225	30 30	SANDY SHALE/SAND
1225	1255	30	NULL 1 DITTED STATES

1255	1285	30	SAND/SANDY SHALE /SAND /COAL
1285	1315	30	SAND STONE
1315	1345	30	SAND/SANDY SHALE
1345	1375	30	SANDY SHALE/SAND/SANDY SHALE
1375	1405	30	SANDY SHALE/SAND
1405	1435	30	SAND/SANDY SHALE
1435	1465	30	SANDY SHALE/SAND/COAL
1465	1495	30	SANDY SHALE/COAL/SANDY SHALE
1495	1525	30	SANDY SHALE/COAL
1525	1615	90	SANDY SHALE/SAND
1615	1645	30	SAND/SANDY SHALE/SAND
1645	1675	30	SANDY SHALE/COAL/SANDY SHALE
1675	1705	30	SAND/SANDY SHALE /COAL /SAND
1705	1735	30	SAND/SANDY SHALE /COAL/ SANDY SHALE
1735	1765	30	SANDY SHALE/COAL/SAND
1765	1825	60	SAND/SANDY SHALE/SAND
1825	1855	30	SAND/SANDY SHALE
1855	1885	30	SAND/SANDY SHALE/SAND
1885	1915	30	SAND STONE
1915	1945	30	SAND/SANDY SHALE /COAL /SAND
1945	1975	30	SAND STONE
1975	2035	60	SAND/SANDY SHALE/SAND
2035	2065	30	SAND STONE
2065	2095	30	SAND/COAL/SANDY SHALE/SAND
2095	2125	30	SAND/SANDY SHALE
2125	2155	30	SAND/COAL/SANDY SHALE/SAND
2155	2185	30	SAND STONE
2185	2215	30	SAND/COAL/SANDY SHALE
2215	2245	30	SANDY SHALE/SAND
2245	2275	30	SAND/SANDY SHALE/SAND
2275	2302	27	SAND/SANDY SHALE
2302	2305	3	COAL P-3
2305	2335	30	SAND/SANDY SHALE
2335	2365	30	SAND/SANDY SHALE/SAND
2365	2395	30	SAND/SANDY SHALE
2395	2455	60	SANDY SHALE
2455	2485	30	SANDY SHALE/SAND/SANDY SHALE
2485	2515	30	SAND/SANDY SHALE
2515	2575	60	SANDY SHALE/SAND

2575.00 FT. TOTAL DEPTH 38.00 FT. OF 13 3/8" CASING 287.20 FT. OF 7" CASING 2370.00 FT. OF 4 ½" CASING