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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Tuesday, April 26, 2022

WELL WORK PLUGGING PERMIT  
Coal Bed Methane Well Plugging

WEST VIRGINIA LAND RESOURCES, INC.  
46226 NATIONAL ROAD WEST  
ST. CLAIRSVILLE, OH 43950

Re: Permit approval for SC 1A  
47-061-01567-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.



James A. Martin  
Chief

Operator's Well Number: SC 1A  
Farm Name: SIX, RALPH & BETTY JO  
U.S. WELL NUMBER: 47-061-01567-00-00  
Coal Bed Methane Well Plugging  
Date Issued: 4/26/2022

Promoting a healthy environment.

04/29/2022

## PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

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### CONDITIONS

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.



4706101567P

SC-1 Total Horizontal Length @ 4.75"

9,383' for 8,632 Gallons

Vertical Length @ 7" CSG

2,014' for 4,025.657 Gallons

LEGS FILLED THROUGH PRODUCTION VERTICAL WELL

North Center Leg  
2317'  
2131 gal

South Center Leg  
2387'  
2196 gal

North Leg  
2900'  
2668 gal

South Leg  
1779'  
1636 gal

Access Vertical  
7" 749'  
1497 gal

X  
Production Vertical  
1320'  
2703 gal

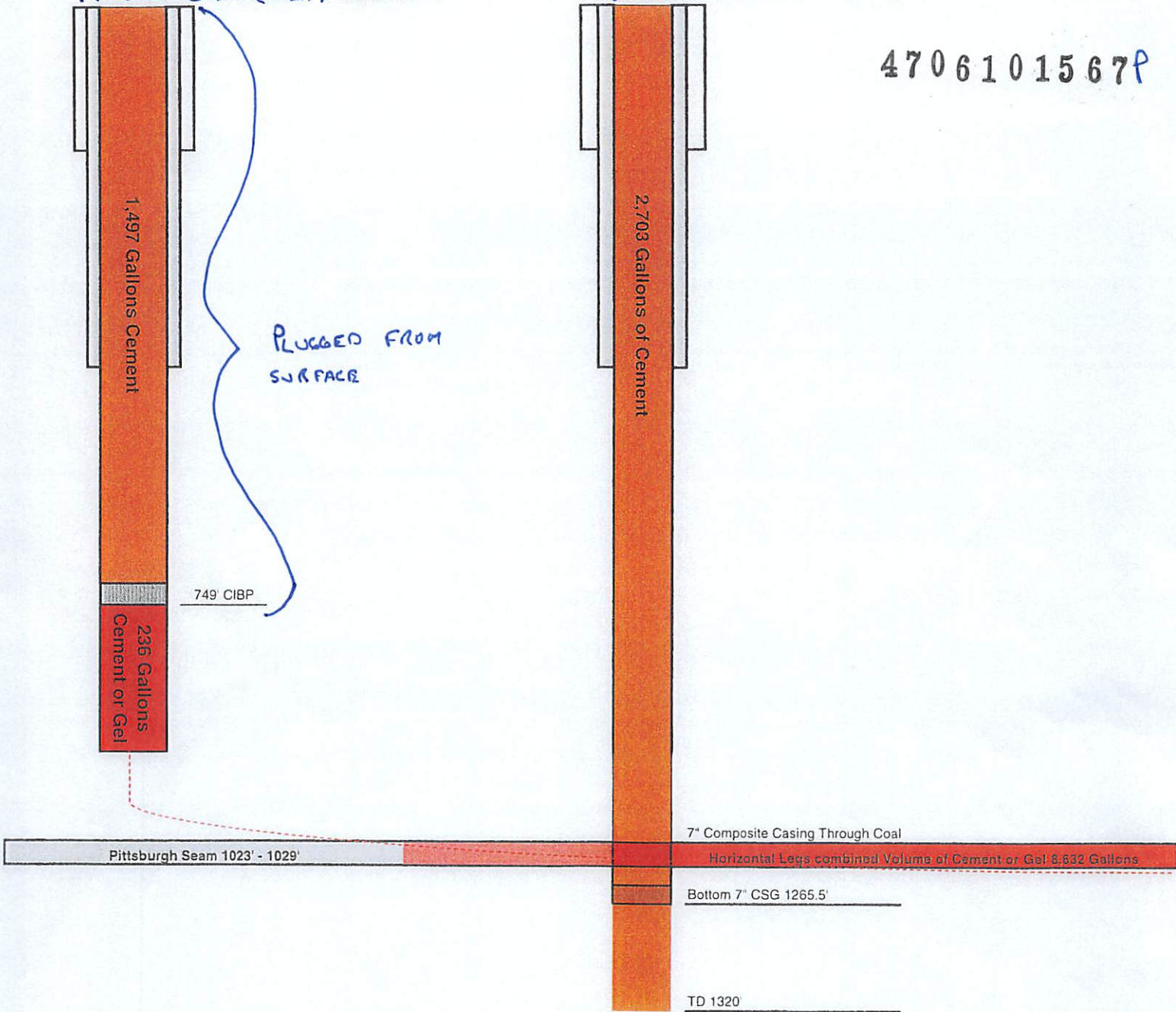
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Figure 1  
CBM SC-1

47-061-01567 (Access)

47-061-01566 (Production)

4706101567P



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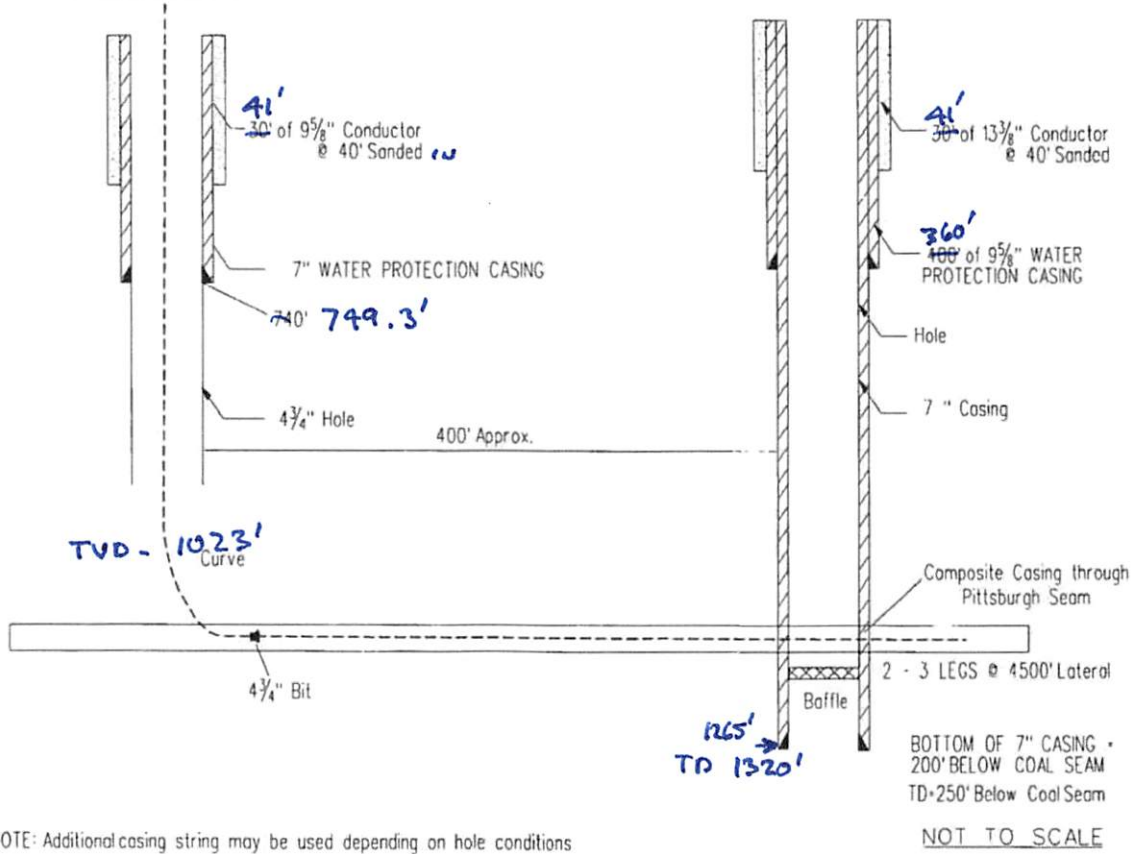
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FIGURE 1

CNX GAS COMPANY LLC

061-01567  
ACCESS SC1A

061-01566  
PRODUCTION SC1



\*NOTE: Additional casing string may be used depending on hole conditions

061-01567

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10/9/07

61-01566-C

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WW-9  
Rev (2-01)

DATE: 6/26/2008  
API #: 47-6101567

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas  
Well Operator's Report of Well Work

18

Farm name: Six, Ralph & Betty Jo Operator Well No.: SC-1 A

LOCATION: Elevation: 1198' Quadrangle: Wadestown

District: Battelle County: Monongalia  
Latitude: \_\_\_\_\_ Feet South of 39 Deg. 40 Min. 00 Sec.  
Longitude: \_\_\_\_\_ Feet West of 80 Deg. 20 Min. 00 Sec.

Company: CNX Gas Company, LLC

	Casing & Tubing	Used in drilling	Left in well	Cement Fill Up (# of Sacks)
Address: 2481 John Nash BLVD	13-3/8"	N/A	N/A	N/A
Bluefield, WV 24701	9-5/8"	41'	41'	Sanded In
Agent: Les Arrington	7"	749.3'	749.3'	N/A
Inspector: Bill Hatfield				
Date Permit Issued: 12/19/2007				
Date Well Work Commenced: 1/14/2008				
Date Well Work Completed: 2/10/2008				
Verbal Plugging: N/A				
Date Permission granted on:				
Rotary Cable <u>Rig</u>				
Total Depth (feet): 1320'				
Fresh Water Depth (ft.): 350'				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? No				

Coal Depths (ft.): 677' 930' 1029'

OPEN FLOW DATA

Producing formation Pittsburgh Coal depth (ft) 1023'- 1029  
Gas: Initial open flow 0 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

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NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Gas Well SC-1 A (API No. 47-6101567) is a horizontal well for CNX Gas Company, LLC. Refer to the attached information for additional information.

Signed: \_\_\_\_\_  
By: Geoff Fanning, Drilling Manager  
Date: June 26, 2008

04/29/2022

**ATTACHMENT A****Monongalia County CBM Well No. SC-1 Access Drill Log**

API #47-6101567

<b>Depth</b>	<b>Description</b>
GL -45	Fill/Dirt
45-90	Clay
90-150	Shale
150-225	Sand
225-270	Shale
270-275	Sand
275-350	Shale
350-450	Sand
450-475	Shale
475-600	Sand
600-675	Shale
675-677	Coal
677-710	Shale
710-720	Sand
720-900	Shale
900-928	Sand
928-930	Coal
930-955	Shale
955-975	Sand
975-1023	Shale
1023-1029	Coal

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WW-4A  
Revised 6-07

1) Date: DECEMBER 15, 2021  
2) Operator's Well Number SC-1A  
3) API Well No.: 47 - 061 - 01567

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served: (a) Name GEORGE D. SIX, Address 11023 MASON DIXON HWY BURTON, WV 26562, (b) Name, Address, (c) Name, Address  
5) (a) Coal Operator Name WEST VIRGINIA LAND RESOURCES INC., Address 1 BRIDGE STREET MONONGAH, WV 26554, (b) Coal Owner(s) with Declaration Name, Address, (c) Coal Lessee with Declaration Name, Address

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

*David Roddy*



Well Operator WEST VIRGINIA LAND RESOURCES INC.  
By: DAVID RODDY  
PROJECT ENGINEER  
1 BRIDGE STREET  
MONONGAH, WV 26554  
(304) 534-4748

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WV Department of Environmental Protection

Subscribed and sworn before me this 29th day of December  
*F Duane Dilly* Notary Public  
My Commission Expires 11/22/26

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

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7019 0160 0001 0702 6024

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**CERTIFIED MAIL® RECEIPT**  
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**OFFICIAL USE**

Certified Mail Fee	\$	2023 Postmark Here
Extra Services & Fees (check box, add fee as appropriate)	\$	
<input type="checkbox"/> Return Receipt (hardcopy)	\$	
<input type="checkbox"/> Return Receipt (electronic)	\$	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$	
<input type="checkbox"/> Adult Signature Required	\$	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	
Postage	\$	
Total Postage and Fees	\$	

Sent To George D. Six  
 Street and Apt. No., or PO Box No. \_\_\_\_\_  
 City, State, ZIP+4® 11023 Mason Dixon Hwy  
Burton, WV 26503

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Miss D. Six

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WW-4B

API No.	<u>47-061-01567</u> <i>P</i>
Farm Name	_____
Well No.	<u>SC-1A</u>

**INSTRUCTIONS TO COAL OPERATORS  
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

**WAIVER**

The undersigned coal operator \_\_\_\_ / owner \_\_\_\_ / lessee \_\_\_\_ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 12-29-21

By: DAVID RODD  
Its Designated Agent

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WV Department of  
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4706101567P

WW-9  
(5/16)

API Number 47 - 061 - 01567  
Operator's Well No. \_\_\_\_\_

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name WEST VIRGINIA LAND RESOURCES INC. OP Code \_\_\_\_\_

Watershed (HUC 10) MIDDLE FORK OF SOUTH FORK OF WEST VIRGINIA FORK OF DUNKARD CREEK Quadrangle WADESTOWN W.VA,PA

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: \_\_\_\_\_

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? \_\_\_\_\_

Proposed Disposal Method For Treated Pit Wastes:

- \_\_\_\_\_ Land Application (if selected provide a completed form WW-9-GPP)
- \_\_\_\_\_ Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- \_\_\_\_\_ Reuse (at API Number \_\_\_\_\_ )
- \_\_\_\_\_ Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Tanks, see attached letter)

Will closed loop system be used? If so, describe: Yes. Gel circulated from tank thru well bore and returned to tank

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Gel or Cement

-If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used in drilling medium? Bentonite, Bicarbonate of Soda

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Shaker cutting buried on site.

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? N/A

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature David Roddy

Company Official (Typed Name) David Roddy

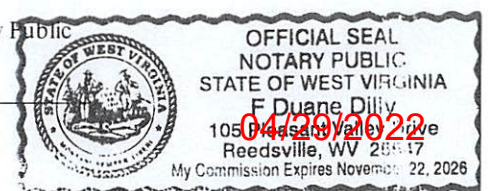
Company Official Title Project Engineer

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Subscribed and sworn before me this 29th day of December, 20 21

David Dilly Notary Public

My commission expires 1/22/26



Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.0

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

**Temporary**

**Permanent**

Seed Type lbs/acre

Seed Type lbs/acre

See Attachment 100

See Attachment 100

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Bryan Harris

Comments: \_\_\_\_\_

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Title: Inspector Date: 1-31-22

Field Reviewed? ( ) Yes ( X ) No

Well# SC-1A  
WADESTOWN WV, PA 7.5' Quad  
Scale: 1" = 500'



1100

1447

Middle

1400



Well# SC-1A

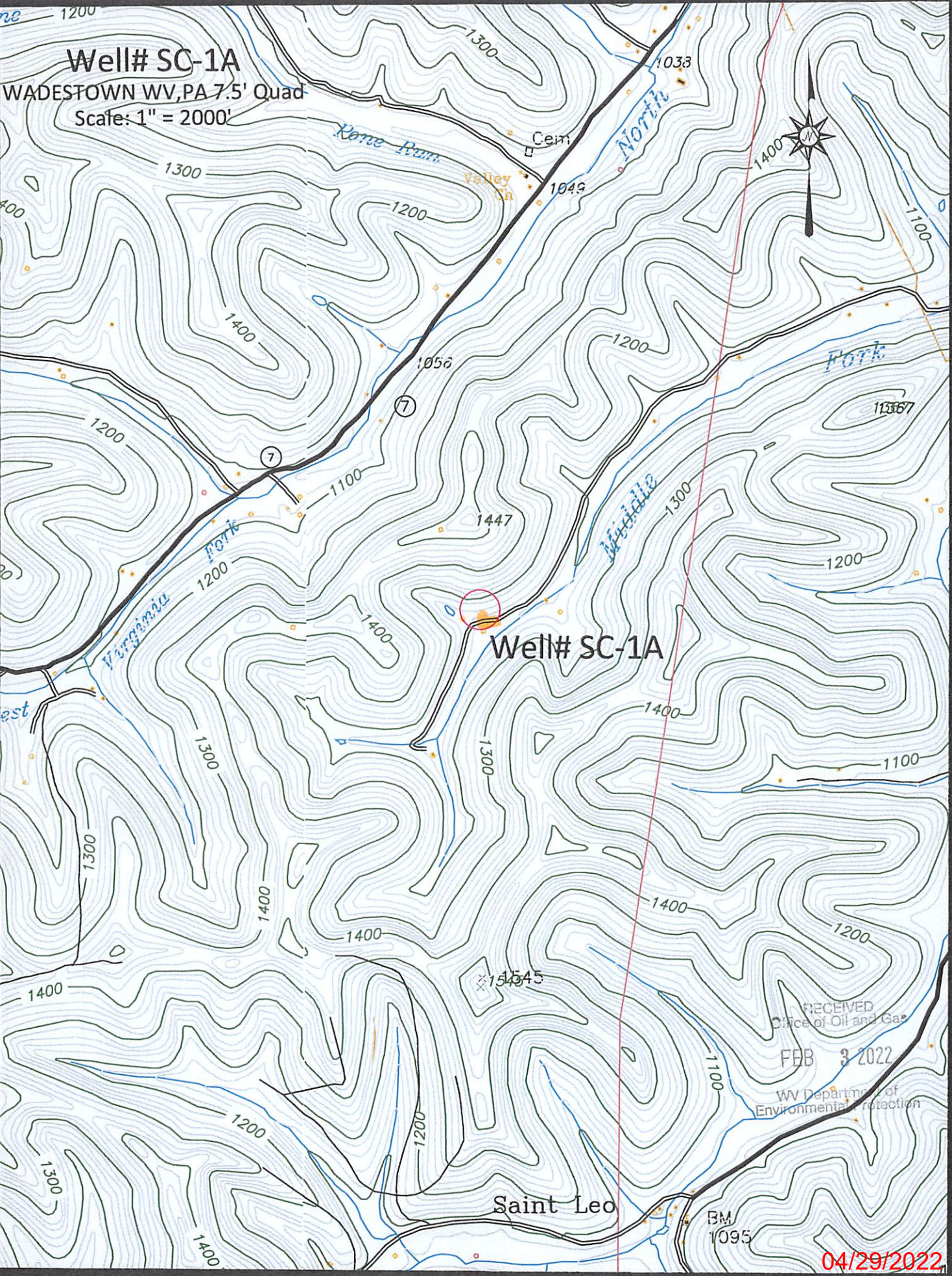
1300

1400

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 Access Road



**Well# SC-1A**  
 WADESTOWN WV, PA 7.5' Quad  
 Scale: 1" = 2000'

**Well# SC-1A**

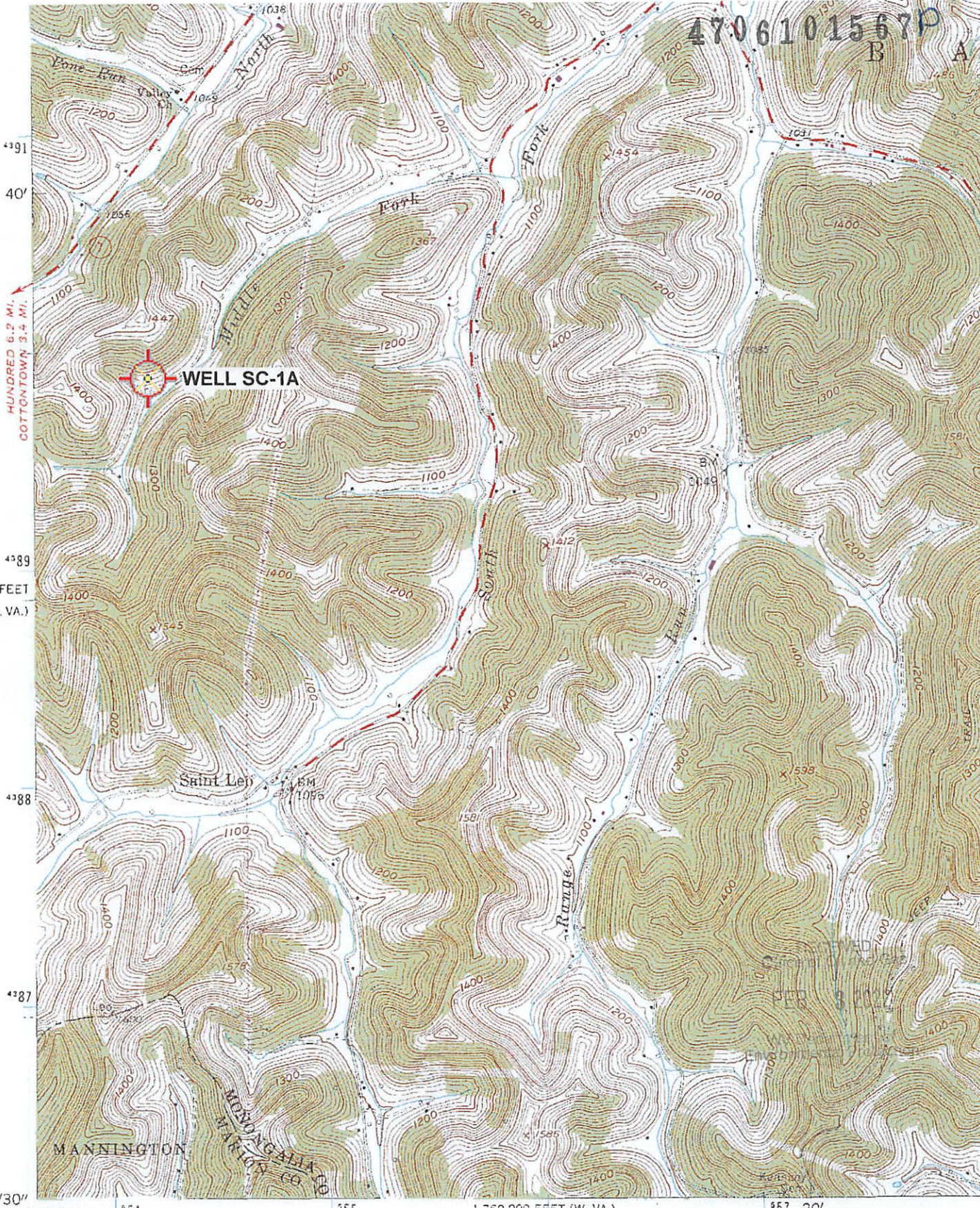
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Saint Leo

BM  
 1095

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Access Point



HUNDRED 6.2 MI.  
COTTONTOWN 3.4 MI.

4706101567P  
B A

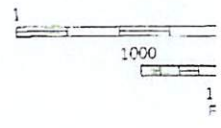
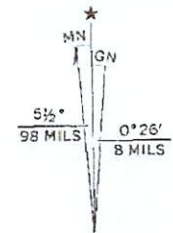
**WELL SC-1A**

420 000 FEET  
(W. VA.)

39°37'30" 80°22'30" 54 55 1 760 000 FEET (W. VA.) 57 20'

Mapped, edited, and published by the Geological Survey  
 Control by USGS and USC&GS  
 Topography from aerial photographs by photogrammetric methods  
 Aerial photographs taken 1956. Field check 1958  
 Polyconic projection. 1927 North American datum  
 10,000-foot grids based on West Virginia coordinate system,  
 north zone, and Pennsylvania coordinate system, south zone  
 1000-meter Universal Transverse Mercator grid ticks,  
 zone 17, shown in blue

(GLOVER GAP)  
4953 III SW



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UTM GRID AND 1976 MAGNETIC NORTH  
DECLINATION AT CENTER OF SHEET



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19-6

19-10

19-10.4

19-10.2

061-70177

SIX:RALPH  
& BETTYJO

061-41568

19-27

SIX:RALPH  
& BETTYJO

061-41567

19-25.1

19-26.2

19-24.2

19-25.1

19-24



WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas  
**WELL LOCATION FORM: GPS**

API: 47-061-01567 WELL NO.: SC-1A  
 FARM NAME: RALPH & BETTY JO SIX  
 RESPONSIBLE PARTY NAME: WEST VIRGINIA LAND RESOURCES INC.  
 COUNTY: MONONGALIA DISTRICT: BATTELLE  
 QUADRANGLE: WADESTOWN W.VA, PA  
 SURFACE OWNER: GEORGE D. SIX  
 ROYALTY OWNER: \_\_\_\_\_  
 UTM GPS NORTHING: 4,390,102 m  
 UTM GPS EASTING: 554,162 m GPS ELEVATION: 365 m (1197')

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS  : Post Processed Differential \_\_\_\_\_  
 Real-Time Differential

Mapping Grade GPS \_\_\_\_\_ : Post Processed Differential \_\_\_\_\_  
 Real-Time Differential \_\_\_\_\_

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

[Signature] Professional Surveyor DECEMBER 15, 2021  
 Signature Title Date

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# Coal Bed Methane Northern Appalachian Basin Horizontal Drilling Project



**CNX GAS**

61-01566

End of Well Summary  
SC-1 Access North & South Laterals  
Monongalia County, West Virginia

Project Start: 2008-01-21  
Project End: 2008-02-10

4-3/4" Horizontal Access Well  
drilled from 7" Casing

Prepared by:  
Carl Bakay  
Lafayette, LA

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JUN 27 2008



**Scientific Drilling**

WV Department of  
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**TABLE OF CONTENTS**

1. SC-1 NORTH SURVEY RESULTS
2. SC-1 SOUTH SURVEY RESULTS
3. DAILY DRILLING REPORTS
4. BHA SUMMARIES w/ Slide Reports
5. GRAPHICAL JOB HISTORY
6. NORTH LEG LOGS
7. SOUTH LEG LOGS
8. SUPPORT STAFF

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**CNX Gas Company, LLC**

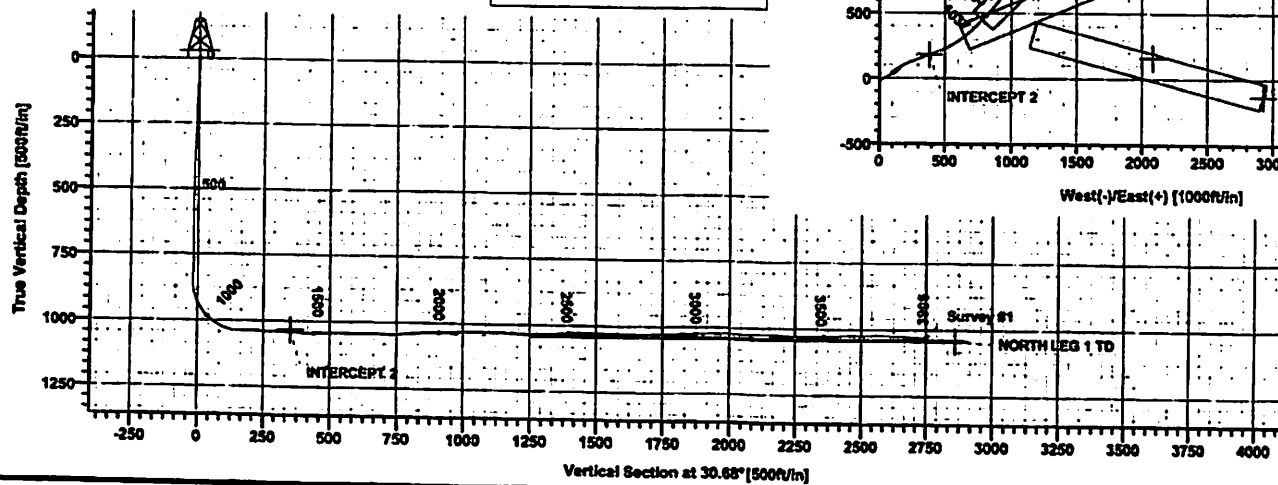
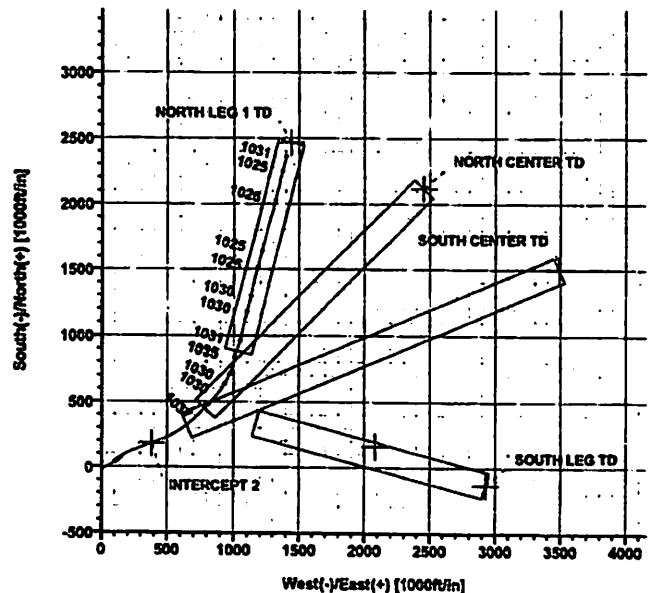
Field: MONONGALIA COUNTY, WV  
 Site: SC-1 WELL LOCATION  
 Well: ACCESS SC-1  
 Wellpath: NORTH LEG 1  
 Survey: Survey #1



Name	TD	Y	X	Easting	Northing	Geometry
INTERCEPT 2	1032.50	181.02	388.12	423471.77	1753778.85	Circle (Radius: 1)
NORTH CENTER TD	1040.00	2118.84	3484.58	428499.59	1787847.31	Rectangle (2360x200)
NORTH LEG 1 TD	1040.00	2488.99	1441.27	428789.84	1758832.00	Rectangle (1840x200)
SOUTH CENTER TD	1040.00	1520.00	3481.77	424780.75	1758832.50	Rectangle (2000x200)
SOUTH LEG TD	1040.00	-138.84	2928.33	423154.91	1758319.06	Rectangle (1820x200)

**SITE DETAILS**  
 SC-1 WELL LOCATION  
 MONONGALIA COUNTY, WV  
 Site Centre Northing: 423290.75  
 Easting: 1753390.73  
 Ground Level: 1187.04  
 Positional Uncertainty: 6.00  
 Convergence: -0.55

Plot Date: 02/02/2008  
 By: Carl Bakay  
 Scientific Drilling, Inc.  
 808-978-7202  
 carl.bakay@scientificdrilling.com





## Scientific Drilling Survey Report

<b>Company:</b> CNX Gas Company, LLC <b>Field:</b> MONONGALIA COUNTY, WV <b>Site:</b> SC-1 WELL LOCATION <b>Well:</b> ACCESS SC-1 <b>Wellpath:</b> NORTH LEG 1		<b>Date:</b> 2/7/2008 <b>Co-ordinate(NE) Reference:</b> Well: ACCESS SC-1; Grid:North <b>Vertical (TVD) Reference:</b> GL 1197.04 + 8:1205.0 <b>Section (VS) Reference:</b> Well:(0.00N,0.00E,30.68Azi) <b>Survey Calculation Method:</b> Minimum Curvature		<b>Time:</b> 07:21:09 <b>Page:</b> 1 <b>Db:</b> Sybase						
<b>Field:</b> MONONGALIA COUNTY, WV Northern West Virginia and Pennsylvania Operations USA <b>Map System:</b> US State Plane Coordinate System 1927 <b>Geo Datum:</b> NAD27 (Clarke 1866) <b>Sys Datum:</b> Mean Sea Level		<b>Map Zone:</b> West Virginia, Northern Zone <b>Coordinate System:</b> Well Centre <b>Geomagnetic Model:</b> igrf2005								
<b>Site:</b> SC-1 WELL LOCATION Monongalia County, WV										
<b>Site Position:</b> From: Map Position Uncertainty: 0.00 ft Ground Level: 1197.04 ft		<b>Northing:</b> 423290.75 ft <b>Easting:</b> 1755390.73 ft		<b>Latitude:</b> 39 39 32.147 N <b>Longitude:</b> 80 22 7.793 W <b>North Reference:</b> Grid <b>Grid Convergence:</b> -0.55 deg						
<b>Well:</b> ACCESS SC-1 <b>Slot Name:</b>										
<b>Well Position:</b> +N-S 0.00 ft +E-W 0.00 ft Position Uncertainty: 0.00 ft		<b>Northing:</b> 423290.75 ft <b>Easting:</b> 1755390.73 ft		<b>Latitude:</b> 39 39 32.147 N <b>Longitude:</b> 80 22 7.793 W						
<b>Wellpath:</b> NORTH LEG 1 <b>Current Datum:</b> GL 1197.04 + 8 <b>Magnetic Data:</b> 1/29/2008 <b>Field Strength:</b> 53202 nT <b>Vertical Section:</b> Depth From (TVD) ft Height 1205.04 ft										
0.00 0.00 0.00		0.00 0.00 0.00		<b>Drilled From:</b> INTERCEPT <b>Tie-on Depth:</b> 1006.00 ft <b>Above System Datum:</b> Mean Sea Level <b>Declination:</b> -8.57 deg <b>Mag Dip Angle:</b> 67.67 deg <b>Direction:</b> deg 30.68						
<b>Survey Program for Definitive Wellpath</b> Date: 2/1/2008 Validated: No Actual From To Survey Version: 1 Toolcode Tool Name										
0.00 730.00 730.00 1006.00 1006.00 3906.00		Survey #1 (0) Survey #2 (0) Survey #1		Drop Gyro-SYS MWD-SDI-SYS MWD-SDI-SYS Drop Gyro Systematic Scientific MWD Systematic Scientific MWD Systematic						
<b>Survey</b>										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.68	213.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
50.00	1.23	213.80	49.99	-0.69	-0.46	-0.83	1.10	1.10	1.40	Drop Gyro-SYS
100.00	1.78	189.80	99.98	-1.91	-0.89	-2.09	1.65	1.10	-48.00	Drop Gyro-SYS
150.00	1.87	183.60	149.95	-3.49	-1.07	-3.55	0.43	0.18	-12.40	Drop Gyro-SYS
200.00	1.83	181.10	199.92	-5.10	-1.14	-4.97	0.18	-0.08	-5.00	Drop Gyro-SYS
300.00	1.81	182.00	289.87	-8.27	-1.23	-7.74	0.03	-0.02	0.90	Drop Gyro-SYS
400.00	1.98	179.90	399.82	-11.58	-1.28	-10.61	0.18	0.17	-2.10	Drop Gyro-SYS
500.00	1.47	159.50	499.77	-14.51	-0.83	-12.90	0.79	-0.51	-20.40	Drop Gyro-SYS
600.00	1.01	134.10	599.75	-16.32	0.26	-13.91	0.71	-0.46	-25.40	Drop Gyro-SYS
700.00	0.74	113.50	699.74	-17.19	1.48	-14.03	0.41	-0.27	-20.80	Drop Gyro-SYS
730.00	1.22	152.11	729.74	-17.55	1.81	-14.17	2.64	1.60	128.70	MWD-SDI-SYS
818.00	2.01	159.94	817.70	-19.83	2.78	-15.84	0.93	0.90	8.90	MWD-SDI-SYS
848.00	1.92	125.30	847.68	-20.61	3.37	-16.01	3.91	-0.30	-115.47	MWD-SDI-SYS
858.00	2.84	89.85	857.68	-20.71	3.75	-15.80	16.93	9.20	-354.50	MWD-SDI-SYS
880.00	8.58	64.04	879.56	-19.99	5.77	-14.25	27.95	26.09	-117.32	MWD-SDI-SYS
912.00	19.67	57.88	910.55	-16.07	12.50	-7.44	34.93	34.66	-19.25	MWD-SDI-SYS
943.00	30.30	59.39	938.60	-9.29	23.68	4.09	34.35	34.29	4.87	MWD-SDI-SYS
975.00	41.39	62.04	964.50	-0.19	40.03	20.28	34.99	34.66	8.28	MWD-SDI-SYS
990.00	47.79	62.75	975.18	4.68	49.35	29.21	42.80	42.67	4.73	MWD-SDI-SYS
1006.00	52.85	63.05	985.39	10.29	60.31	39.62	31.66	31.62	1.87	MWD-SDI-SYS
1038.00	56.23	54.45	1003.98	23.82	82.54	62.60	24.29	10.56	-26.87	MWD-SDI-SYS



## Scientific Drilling Survey Report

<b>Company:</b> CNX Gas Company, LLC <b>Field:</b> MONONGALIA COUNTY, WV <b>Site:</b> SC-1:WELL LOCATION <b>Well:</b> ACCESS SC-1 <b>Wellpath:</b> NORTH LEG 1	<b>Date:</b> 2/7/2008 <b>Co-ordinate(NE) Reference:</b> <b>Vertical (TVD) Reference:</b> <b>Section (VS) Reference:</b> <b>Survey Calculation Method:</b> Minimum Curvature	<b>Time:</b> 07:21:09 <b>Well:</b> ACCESS SC-1, Grid North GL 1197.04 + 8 1205.0 Well (0.00N,0.00E,30.68Azi)	<b>Page:</b> 2 <b>Db:</b> Sybase
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Survey										
MD ft.	Incl deg	Azlm deg	TVD ft	+N/-S ft	+E/-W ft.	VS ft.	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1070.00	65.61	51.50	1019.52	40.66	104.82	88.46	30.39	29.31	-9.22	MWD-SDI-SYS
1101.00	75.16	50.84	1029.91	58.96	127.53	115.78	30.87	30.81	-2.13	MWD-SDI-SYS
1133.00	84.56	50.33	1035.54	78.94	151.84	145.37	29.42	29.37	-1.59	MWD-SDI-SYS
1146.00	89.33	50.66	1036.23	87.17	161.87	157.57	36.92	36.69	4.08	MWD-SDI-SYS
1164.00	90.77	55.35	1036.22	97.98	176.26	174.21	28.20	8.00	24.94	MWD-SDI-SYS
1179.00	90.91	61.15	1036.00	105.87	189.01	187.50	38.87	0.93	38.87	MWD-SDI-SYS
1195.00	90.44	64.75	1035.81	113.14	203.26	201.02	22.69	-2.94	22.50	MWD-SDI-SYS
1210.00	88.45	67.99	1035.95	119.15	216.99	213.20	25.35	-13.27	21.60	MWD-SDI-SYS
1227.00	88.03	69.51	1036.77	125.31	232.82	226.57	16.80	-14.24	8.94	MWD-SDI-SYS
1242.00	85.06	68.67	1037.94	130.64	246.79	238.29	8.54	-6.47	-5.60	MWD-SDI-SYS
1258.00	86.64	68.95	1039.09	136.41	261.67	250.84	10.03	9.87	1.75	MWD-SDI-SYS
1268.00	88.92	69.30	1039.48	139.97	271.00	258.67	23.07	22.80	3.50	MWD-SDI-SYS
1278.00	89.83	68.90	1039.59	143.54	280.34	266.50	9.94	9.10	-4.00	MWD-SDI-SYS
1290.00	89.80	68.47	1039.63	147.90	291.52	275.96	3.59	-0.25	-3.58	MWD-SDI-SYS
1300.00	89.60	68.48	1039.68	151.57	300.83	283.86	2.00	-2.00	0.10	MWD-SDI-SYS
1310.00	89.53	68.89	1039.76	155.20	310.14	291.74	4.16	-0.70	4.10	MWD-SDI-SYS
1322.00	89.60	69.26	1039.85	159.49	321.35	301.14	3.14	0.58	3.08	MWD-SDI-SYS
1327.00	89.46	69.55	1039.89	161.25	326.03	305.05	6.44	-2.80	5.80	MWD-SDI-SYS
1332.00	89.43	69.73	1039.94	162.99	330.72	308.93	3.65	-0.60	3.60	MWD-SDI-SYS
1337.00	89.33	69.80	1039.99	164.72	335.41	312.81	2.44	-2.00	1.40	MWD-SDI-SYS
1342.00	88.79	69.91	1040.07	166.44	340.10	316.69	11.02	-10.80	2.20	MWD-SDI-SYS
1353.00	88.33	70.13	1040.35	170.20	350.44	325.20	4.64	-4.18	2.00	MWD-SDI-SYS
1385.00	87.72	69.52	1041.45	181.23	380.46	350.00	2.70	-1.91	-1.91	MWD-SDI-SYS
1418.00	88.29	70.27	1042.60	192.56	411.43	375.55	2.85	1.73	2.27	MWD-SDI-SYS
1450.00	88.76	69.79	1043.43	203.49	441.49	400.29	2.10	1.47	-1.50	MWD-SDI-SYS
1481.00	90.00	67.27	1043.76	214.83	470.34	424.77	9.06	4.00	-8.13	MWD-SDI-SYS
1513.00	92.55	64.80	1043.05	227.82	489.56	450.85	11.09	7.97	-7.72	MWD-SDI-SYS
1545.00	90.64	61.83	1042.16	242.19	528.14	477.79	11.03	-5.97	-9.28	MWD-SDI-SYS
1576.00	89.70	60.02	1042.07	257.25	555.23	504.57	6.58	-3.03	-5.84	MWD-SDI-SYS
1608.00	90.27	58.02	1042.08	273.72	582.67	532.73	6.50	1.78	-6.25	MWD-SDI-SYS
1639.00	89.97	53.86	1042.01	291.08	608.34	560.76	13.45	-0.97	-13.42	MWD-SDI-SYS
1671.00	89.80	50.37	1042.07	310.73	633.59	590.55	10.92	-0.53	-10.91	MWD-SDI-SYS
1703.00	90.47	50.73	1042.00	331.06	658.30	620.64	2.38	2.09	1.12	MWD-SDI-SYS
1734.00	89.09	48.27	1042.12	351.19	681.87	649.98	9.10	-4.45	-7.94	MWD-SDI-SYS
1766.00	87.88	47.68	1042.94	372.61	705.64	680.52	3.93	-3.47	-1.84	MWD-SDI-SYS
1798.00	88.49	44.59	1043.92	394.77	728.69	711.35	9.78	1.59	-9.66	MWD-SDI-SYS
1829.00	92.89	44.84	1043.55	416.79	750.50	741.42	14.22	14.19	0.81	MWD-SDI-SYS
1861.00	93.37	42.73	1041.80	439.86	772.61	772.53	6.75	1.50	-6.59	MWD-SDI-SYS
1892.00	93.94	42.35	1039.83	462.65	793.52	802.81	2.21	1.84	-1.23	MWD-SDI-SYS
1924.00	95.90	42.30	1037.08	486.22	814.99	834.04	6.13	6.12	-0.16	MWD-SDI-SYS
1956.00	93.32	41.69	1034.51	509.92	836.33	865.31	8.28	-8.06	-1.91	MWD-SDI-SYS
1987.00	89.90	41.35	1033.64	533.12	856.87	895.74	11.09	-11.03	-1.10	MWD-SDI-SYS
2019.00	90.54	40.07	1033.52	557.38	877.74	927.25	4.47	2.00	-4.00	MWD-SDI-SYS
2050.00	91.85	37.22	1032.87	581.58	897.09	957.94	10.12	4.23	-9.19	MWD-SDI-SYS
2082.00	92.79	33.78	1031.57	607.61	915.65	989.80	11.14	2.94	-10.75	MWD-SDI-SYS
2113.00	91.21	30.84	1030.49	633.79	932.21	1020.76	10.76	-5.10	-9.48	MWD-SDI-SYS
2145.00	91.38	27.30	1029.77	661.75	947.75	1052.74	11.07	0.53	-11.06	MWD-SDI-SYS
2177.00	89.46	24.81	1029.53	690.49	961.81	1084.63	9.83	-6.00	-7.78	MWD-SDI-SYS
2208.00	87.82	20.68	1030.27	719.06	973.79	1115.31	14.33	-5.29	-13.32	MWD-SDI-SYS
2240.00	87.71	17.53	1031.52	749.27	984.25	1146.63	9.84	-0.34	-9.84	MWD-SDI-SYS
2272.00	88.56	15.30	1032.56	779.95	993.29	1177.63	7.45	2.66	-6.97	MWD-SDI-SYS
2303.00	86.47	12.67	1033.90	810.00	1000.77	1207.29	10.83	-6.74	-8.48	MWD-SDI-SYS
2335.00	89.23	14.08	1035.10	841.11	1008.17	1237.81	9.68	8.62	4.41	MWD-SDI-SYS
2367.00	91.34	18.88	1034.94	871.78	1017.24	1268.82	16.38	6.59	15.00	MWD-SDI-SYS



## Scientific Drilling Survey Report

Company: CNX Gas Company, LLC	Date: 2/7/2008	Time: 07:21:09	Page: 3
Field: MONONGALIA COUNTY, WV	Co-ordinate(NE) Reference:	Well: ACCESS SC-1, Grid North	
Site: SC-1 WELL LOCATION	Vertical (TVD) Reference:	GL 1197.04 + 8 1205.0	
Well: ACCESS SC-1	Section (VS) Reference:	Well (0.00N,0.00E,30.68Azi)	
Wellpath: NORTH LEG 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

**Survey**

MD ft	Incl deg	Azlm deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Buflid deg/100ft	Turn deg/100ft	Tool/Comment
2399.00	90.74	19.62	1034.36	901.99	1027.79	1300.18	2.98	-1.87	2.31	MWD-SDI-SYS
2431.00	92.96	17.85	1033.33	932.26	1038.09	1331.48	8.68	6.94	-5.22	MWD-SDI-SYS
2461.00	94.33	16.44	1031.42	960.86	1046.94	1360.59	6.79	4.57	-5.03	MWD-SDI-SYS
2493.00	92.32	12.74	1029.57	991.77	1054.98	1391.28	13.14	-6.28	-11.56	MWD-SDI-SYS
2524.00	91.41	10.71	1028.56	1022.11	1061.28	1420.58	7.17	-2.94	-6.55	MWD-SDI-SYS
2556.00	90.23	10.61	1028.10	1053.55	1067.20	1450.64	3.70	-3.69	-0.31	MWD-SDI-SYS
2588.00	88.86	13.94	1028.35	1084.81	1074.00	1481.00	11.25	-4.28	10.41	MWD-SDI-SYS
2619.00	88.59	15.35	1029.04	1114.80	1081.84	1510.78	4.63	-0.87	4.55	MWD-SDI-SYS
2651.00	89.29	15.04	1029.64	1145.67	1090.22	1541.61	2.39	2.19	-0.97	MWD-SDI-SYS
2682.00	89.50	14.36	1029.96	1175.66	1098.09	1571.41	2.30	0.88	-2.19	MWD-SDI-SYS
2714.00	89.29	14.33	1030.30	1206.66	1106.02	1602.12	0.66	-0.66	-0.09	MWD-SDI-SYS
2746.00	89.46	13.73	1030.65	1237.70	1113.77	1632.77	1.95	0.53	-1.87	MWD-SDI-SYS
2777.00	90.91	11.84	1030.55	1267.93	1120.83	1662.27	7.68	4.68	-6.10	MWD-SDI-SYS
2809.00	90.37	12.40	1030.19	1299.21	1127.35	1692.61	2.43	-1.69	1.75	MWD-SDI-SYS
2840.00	90.60	13.97	1029.93	1329.39	1134.42	1722.17	5.12	0.74	5.08	MWD-SDI-SYS
2872.00	91.48	12.62	1029.35	1360.53	1141.78	1752.70	5.04	2.75	-4.22	MWD-SDI-SYS
2904.00	91.21	13.15	1028.60	1391.72	1148.91	1783.16	1.86	-0.84	1.66	MWD-SDI-SYS
2935.00	90.44	12.84	1028.15	1421.92	1155.88	1812.69	2.68	-2.48	-1.00	MWD-SDI-SYS
2967.00	91.58	12.62	1027.59	1453.13	1162.93	1843.13	3.63	3.56	-0.69	MWD-SDI-SYS
2998.00	92.99	15.36	1026.35	1483.18	1170.42	1872.79	9.93	4.55	8.84	MWD-SDI-SYS
3030.00	91.82	15.63	1025.01	1513.99	1178.98	1903.65	3.75	-3.66	0.84	MWD-SDI-SYS
3062.00	90.30	15.66	1024.42	1544.80	1187.59	1934.55	4.75	-4.75	0.09	MWD-SDI-SYS
3094.00	92.32	17.15	1023.69	1575.48	1196.62	1965.55	7.84	6.31	4.68	MWD-SDI-SYS
3126.00	88.45	15.73	1023.47	1606.17	1205.68	1996.56	12.88	-12.09	-4.44	MWD-SDI-SYS
3158.00	87.37	14.44	1024.64	1637.04	1214.00	2027.36	5.28	-3.37	-4.03	MWD-SDI-SYS
3189.00	90.10	14.03	1025.32	1667.08	1221.62	2057.08	8.91	8.81	-1.32	MWD-SDI-SYS
3221.00	90.47	15.47	1025.16	1698.03	1229.77	2087.85	4.65	1.16	4.50	MWD-SDI-SYS
3252.00	88.69	15.70	1025.39	1727.88	1238.10	2117.77	5.79	-5.74	0.74	MWD-SDI-SYS
3284.00	89.30	14.40	1025.95	1758.78	1246.40	2148.58	4.49	1.91	-4.06	MWD-SDI-SYS
3316.00	89.23	15.03	1026.36	1789.73	1254.53	2179.35	1.98	-0.22	1.97	MWD-SDI-SYS
3347.00	86.97	15.28	1027.39	1819.63	1262.63	2209.20	7.33	-7.29	0.81	MWD-SDI-SYS
3379.00	87.31	16.22	1028.99	1850.39	1271.31	2240.08	3.12	1.06	2.94	MWD-SDI-SYS
3410.00	89.36	16.77	1029.89	1880.10	1280.10	2270.12	6.85	6.61	1.77	MWD-SDI-SYS
3442.00	90.60	15.43	1029.90	1910.85	1288.98	2301.09	5.71	3.87	-4.19	MWD-SDI-SYS
3472.00	91.61	14.88	1029.32	1939.80	1296.82	2329.98	3.83	3.37	-1.83	MWD-SDI-SYS
3504.00	93.03	14.51	1028.02	1970.72	1304.93	2360.72	4.59	4.44	-1.16	MWD-SDI-SYS
3534.00	92.12	15.39	1026.68	1999.68	1312.66	2389.57	4.22	-3.03	2.93	MWD-SDI-SYS
3566.00	91.21	14.49	1025.75	2030.58	1320.91	2420.35	4.00	-2.84	-2.81	MWD-SDI-SYS
3597.00	92.12	14.16	1024.85	2060.61	1328.57	2450.08	3.12	2.94	-1.06	MWD-SDI-SYS
3629.00	90.54	14.37	1024.10	2091.61	1336.46	2480.77	4.98	-4.94	0.66	MWD-SDI-SYS
3661.00	90.34	14.02	1023.86	2122.63	1344.30	2511.45	1.26	-0.62	-1.09	MWD-SDI-SYS
3692.00	91.55	12.14	1023.35	2152.82	1351.32	2541.00	7.21	3.90	-6.06	MWD-SDI-SYS
3724.00	89.06	14.21	1023.18	2183.98	1358.61	2571.51	10.12	-7.78	6.47	MWD-SDI-SYS
3755.00	88.39	12.68	1023.87	2214.12	1365.82	2601.11	5.39	-2.16	-4.94	MWD-SDI-SYS
3787.00	88.42	13.12	1024.76	2245.30	1372.96	2631.57	1.38	0.09	1.37	MWD-SDI-SYS
3818.00	86.64	13.23	1026.09	2275.45	1380.02	2661.10	5.75	-5.74	0.35	MWD-SDI-SYS
3850.00	85.79	13.60	1028.20	2306.51	1387.42	2691.59	2.90	-2.66	1.16	MWD-SDI-SYS
3906.00	89.00	14.14	1030.75	2360.81	1400.83	2745.14	5.81	5.73	0.96	MWD-SDI-SYS





## Scientific Drilling Survey Report - Geographic

<b>Company:</b> CNX Gas Company, LLC <b>Field:</b> MONONGALIA COUNTY, WV <b>Site:</b> SC-1 WELL LOCATION <b>Well:</b> ACCESS SC-1 <b>Wellpath:</b> NORTH LEG 1	<b>Date:</b> 2/7/2008 <b>Co-ordinate(NE) Reference:</b> <b>Vertical (TVD) Reference:</b> <b>Section (VS) Reference:</b> <b>Survey Calculation Method:</b>	<b>Time:</b> 07:23:10 <b>Well:</b> ACCESS SC-1, Grid North <b>GL 1197.04 + 8.1205.0</b> <b>Well (0.00N;0.00E;30.68Azi)</b> <b>Minimum Curvature</b>	<b>Page:</b> 1 <b>Db:</b> Sybase						
<b>Field:</b> MONONGALIA COUNTY, WV Northern West Virginia and Pennsylvania Operations USA <b>Map System:</b> US State Plane Coordinate System 1927 <b>Geo Datum:</b> NAD27 (Clarke 1886) <b>Sys Datum:</b> Mean Sea Level									
		<b>Map Zone:</b> West Virginia, Northern Zone <b>Coordinate System:</b> Well Centre <b>Geomagnetic Model:</b> igrf2005							
<b>Site:</b> SC-1 WELL LOCATION Monongalia County, WV									
<b>Site Position:</b> <b>From:</b> Map <b>Position Uncertainty:</b> 0.00 ft <b>Ground Level:</b> 1197.04 ft	<b>Northing:</b> 423290.75 ft <b>Eastng:</b> 1755390.73 ft	<b>Latitude:</b> 39 39 32.147 N <b>Longitude:</b> 80 22 7.793 W <b>North Reference:</b> Grid <b>Grid Convergence:</b> -0.55 deg							
<b>Well:</b> ACCESS SC-1 <span style="float: right;"><b>Slot Name:</b></span>									
<b>Well Position:</b> +N/-S 0.00 ft +E/-W 0.00 ft <b>Position Uncertainty:</b> 0.00 ft	<b>Northing:</b> 423290.75 ft <b>Eastng:</b> 1755390.73 ft	<b>Latitude:</b> 39 39 32.147 N <b>Longitude:</b> 80 22 7.793 W							
<b>Wellpath:</b> NORTH LEG 1									
<b>Current Datum:</b> GL 1197.04 + 8 <b>Magnetic Data:</b> 1/29/2008 <b>Field Strength:</b> 53202 nT <b>Vertical Section:</b> Depth From (TVD) ft	<b>Height</b> 1205.04 ft +N/-S ft +E/-W ft	<b>Drilled From:</b> INTERCEPT <b>Tie-on Depth:</b> 1006.00 ft <b>Above System Datum:</b> Mean Sea Level <b>Declination:</b> -8.57 deg <b>Mag Dip Angle:</b> 67.67 deg Direction deg							
0.00	0.00	0.00	30.68						
<b>Survey Program for Definitive Wellpath</b> <b>Date:</b> 2/1/2008 <b>Validated:</b> No <b>Version:</b> 1 <b>Actual From To Survey</b> <b>Toolcode</b> <b>Tool Name</b>									
0.00	730.00	Survey #1 (0)	Drop Gyro-SYS						
730.00	1006.00	Survey #2 (0)	Scientific MWD Systematic						
1006.00	3906.00	Survey #1	Scientific MWD Systematic						
<b>Survey</b>									
MD	Incl	Azim	TVD	+N/-S	+E/-W	Map Northing	Map Easting	Latitude	Longitude
ft	deg	deg	ft	ft	ft	ft	ft	Deg:Min Sec	Deg Min Sec
0.00	0.68	213.10	0.00	0.00	0.00	423290.75	1755390.73	39 39 32.147 N	80 22 7.793 W
50.00	1.23	213.80	49.99	-0.69	-0.46	423290.08	1755390.27	39 39 32.140 N	80 22 7.799 W
100.00	1.78	189.80	99.98	-1.91	-0.89	423288.84	1755389.84	39 39 32.128 N	80 22 7.804 W
150.00	1.87	183.80	149.95	-3.49	-1.07	423287.26	1755389.66	39 39 32.112 N	80 22 7.807 W
200.00	1.83	181.10	199.92	-5.10	-1.14	423285.65	1755389.59	39 39 32.098 N	80 22 7.807 W
300.00	1.81	182.00	299.87	-8.27	-1.23	423282.48	1755389.50	39 39 32.065 N	80 22 7.808 W
400.00	1.98	179.90	399.82	-11.58	-1.28	423279.17	1755389.45	39 39 32.032 N	80 22 7.808 W
500.00	1.47	159.50	499.77	-14.51	-0.83	423276.24	1755389.90	39 39 32.003 N	80 22 7.802 W
600.00	1.01	134.10	599.75	-16.32	0.26	423274.43	1755390.99	39 39 31.985 N	80 22 7.788 W
700.00	0.74	113.50	699.74	-17.19	1.48	423273.56	1755392.21	39 39 31.977 N	80 22 7.772 W
730.00	1.22	152.11	729.74	-17.55	1.81	423273.20	1755392.54	39 39 31.973 N	80 22 7.768 W
818.00	2.01	159.94	817.70	-19.83	2.78	423270.92	1755393.51	39 39 31.951 N	80 22 7.755 W
848.00	1.92	125.30	847.88	-20.61	3.37	423270.14	1755394.10	39 39 31.943 N	80 22 7.748 W
858.00	2.84	89.85	857.68	-20.71	3.75	423270.04	1755394.48	39 39 31.942 N	80 22 7.743 W
880.00	8.58	64.04	879.56	-19.99	5.77	423270.76	1755396.50	39 39 31.950 N	80 22 7.717 W
912.00	19.67	57.88	910.55	-16.07	12.50	423274.88	1755403.23	39 39 31.989 N	80 22 7.631 W
943.00	30.30	59.39	938.60	-9.29	23.68	423281.46	1755414.41	39 39 32.057 N	80 22 7.489 W
975.00	41.39	62.04	964.50	-0.19	40.03	423290.56	1755430.76	39 39 32.149 N	80 22 7.281 W
990.00	47.79	62.75	975.18	4.68	49.35	423295.43	1755440.08	39 39 32.198 N	80 22 7.163 W
1006.00	52.85	63.05	985.39	10.29	60.31	423301.04	1755451.04	39 39 32.254 N	80 22 7.023 W



## Scientific Drilling Survey Report - Geographic

Company: CNX Gas Company, LLC	Date: 2/7/2008	Time: 07:23:10	Page: 2
Field: MONONGALIA COUNTY, WV	Co-ordinate(NE) Reference:	Well: ACCESS SC-1, Grid North	
Site: SC-1 WELL LOCATION	Vertical (TVD) Reference:	GL 1197.04 + 8 1205.0	
Well: ACCESS SC-1	Section (VS) Reference:	Well (0.00N,0.00E,30.68Azi)	
Wellpath: NORTH LEG 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey													
MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	Map Northing ft	Map Easting ft	← Latitude →			← Longitude →		
								Deg	Min	Sec	Deg	Min	Sec
1038.00	56.23	54.45	1003.88	23.82	82.54	423314.57	1755473.27	39	39	32.390 N	80	22	6.741 W
1070.00	65.61	51.50	1019.52	40.66	104.82	423331.41	1755495.55	39	39	32.559 N	80	22	6.458 W
1101.00	75.16	50.84	1029.91	58.96	127.53	423349.71	1755518.26	39	39	32.742 N	80	22	6.170 W
1133.00	84.56	50.33	1035.54	78.94	151.84	423369.69	1755542.57	39	39	32.941 N	80	22	5.862 W
1146.00	89.33	50.86	1036.23	87.17	161.87	423377.92	1755552.60	39	39	33.024 N	80	22	5.734 W
1164.00	90.77	55.35	1036.22	97.98	176.26	423388.73	1755566.99	39	39	33.132 N	80	22	5.552 W
1179.00	90.91	61.15	1036.00	105.87	189.01	423396.62	1755579.74	39	39	33.211 N	80	22	5.390 W
1195.00	90.44	64.75	1035.81	113.14	203.26	423403.89	1755593.99	39	39	33.284 N	80	22	5.208 W
1210.00	88.45	67.99	1035.95	119.15	216.99	423409.90	1755607.72	39	39	33.345 N	80	22	5.033 W
1227.00	86.03	69.51	1036.77	125.31	232.82	423416.06	1755623.55	39	39	33.407 N	80	22	4.832 W
1242.00	85.06	68.67	1037.94	130.64	246.79	423421.39	1755637.52	39	39	33.462 N	80	22	4.654 W
1258.00	86.64	68.85	1039.09	136.41	261.67	423427.16	1755652.40	39	39	33.520 N	80	22	4.464 W
1268.00	88.92	69.30	1039.48	139.97	271.00	423430.72	1755661.73	39	39	33.556 N	80	22	4.345 W
1278.00	89.83	68.90	1039.59	143.54	280.34	423434.29	1755671.07	39	39	33.592 N	80	22	4.226 W
1290.00	89.80	68.47	1039.63	147.90	291.52	423438.65	1755682.25	39	39	33.636 N	80	22	4.084 W
1300.00	89.60	68.48	1039.68	151.57	300.83	423442.32	1755691.56	39	39	33.673 N	80	22	3.966 W
1310.00	89.53	68.89	1039.76	155.20	310.14	423445.95	1755700.87	39	39	33.710 N	80	22	3.847 W
1322.00	89.60	69.26	1039.85	159.49	321.35	423450.24	1755712.08	39	39	33.754 N	80	22	3.704 W
1327.00	89.46	69.55	1039.89	161.25	326.03	423452.00	1755716.76	39	39	33.772 N	80	22	3.645 W
1332.00	89.43	69.73	1039.94	162.99	330.72	423453.74	1755721.45	39	39	33.789 N	80	22	3.585 W
1337.00	89.33	69.80	1039.99	164.72	335.41	423455.47	1755726.14	39	39	33.807 N	80	22	3.525 W
1342.00	88.79	69.91	1040.07	166.44	340.10	423457.19	1755730.83	39	39	33.824 N	80	22	3.465 W
1353.00	88.33	70.13	1040.35	170.20	350.44	423460.95	1755741.17	39	39	33.862 N	80	22	3.334 W
1385.00	87.72	69.52	1041.45	181.23	360.46	423471.98	1755771.19	39	39	33.974 N	80	22	2.951 W
1418.00	88.29	70.27	1042.60	192.56	411.43	423483.31	1755802.16	39	39	34.089 N	80	22	2.557 W
1450.00	88.76	69.79	1043.43	203.49	441.49	423494.24	1755832.22	39	39	34.200 N	80	22	2.173 W
1481.00	90.00	67.27	1043.76	214.83	470.34	423505.58	1755861.07	39	39	34.315 N	80	22	1.806 W
1513.00	92.55	64.80	1043.05	227.82	499.56	423518.57	1755890.29	39	39	34.446 N	80	22	1.434 W
1545.00	90.64	61.83	1042.16	242.19	528.14	423532.94	1755918.87	39	39	34.591 N	80	22	1.070 W
1576.00	89.70	60.02	1042.07	257.25	555.23	423548.00	1755945.96	39	39	34.742 N	80	22	0.726 W
1608.00	90.27	58.02	1042.08	273.72	582.67	423564.47	1755973.40	39	39	34.808 N	80	22	0.377 W
1639.00	89.97	53.86	1042.01	291.08	608.34	423581.83	1755999.07	39	39	35.082 N	80	22	0.051 W
1671.00	89.80	50.37	1042.07	310.73	633.59	423601.48	1756024.32	39	39	35.278 N	80	21	59.730 W
1703.00	90.47	50.73	1042.00	331.06	658.30	423621.81	1756049.03	39	39	35.482 N	80	21	59.417 W
1734.00	89.09	48.27	1042.12	351.19	681.87	423641.94	1756072.60	39	39	35.683 N	80	21	59.118 W
1766.00	87.98	47.68	1042.94	372.61	705.64	423663.36	1756096.37	39	39	35.897 N	80	21	58.817 W
1798.00	88.49	44.59	1043.92	394.77	728.69	423685.52	1756119.42	39	39	36.118 N	80	21	58.525 W
1829.00	92.89	44.84	1043.55	416.79	750.50	423707.54	1756141.23	39	39	36.338 N	80	21	58.249 W
1861.00	93.37	42.73	1041.80	439.86	772.61	423730.61	1756163.34	39	39	36.568 N	80	21	57.969 W
1892.00	93.94	42.35	1039.83	462.65	793.52	423753.40	1756184.25	39	39	36.795 N	80	21	57.704 W
1924.00	95.90	42.30	1037.08	486.22	814.99	423776.97	1756205.72	39	39	37.030 N	80	21	57.433 W
1956.00	93.32	41.69	1034.51	509.92	836.33	423800.67	1756227.06	39	39	37.266 N	80	21	57.163 W
1887.00	89.90	41.35	1033.64	533.12	856.87	423823.67	1756247.60	39	39	37.497 N	80	21	56.903 W
2019.00	90.54	40.07	1033.52	557.38	877.74	423848.13	1756268.47	39	39	37.739 N	80	21	56.639 W
2050.00	91.85	37.22	1032.87	581.58	897.09	423872.33	1756287.82	39	39	37.980 N	80	21	56.395 W
2082.00	92.79	33.78	1031.57	607.61	915.65	423898.36	1756306.38	39	39	38.239 N	80	21	56.160 W
2113.00	91.21	30.84	1030.49	633.79	932.21	423924.54	1756322.94	39	39	38.500 N	80	21	55.952 W
2145.00	91.38	27.30	1029.77	661.75	947.75	423952.50	1756338.48	39	39	38.777 N	80	21	55.757 W
2177.00	89.46	24.81	1029.53	690.49	961.81	423981.24	1756352.54	39	39	39.063 N	80	21	55.581 W
2208.00	87.82	20.68	1030.27	719.08	973.79	424009.81	1756364.52	39	39	39.346 N	80	21	55.431 W
2240.00	87.71	17.53	1031.52	749.27	984.25	424040.02	1756374.98	39	39	39.646 N	80	21	55.301 W
2272.00	88.56	15.30	1032.56	779.95	993.29	424070.70	1756384.02	39	39	39.950 N	80	21	55.189 W
2303.00	86.47	12.67	1033.90	810.00	1000.77	424100.75	1756391.50	39	39	40.248 N	80	21	55.097 W



## Scientific Drilling Survey Report - Geographic

<b>Company:</b> CNX Gas Company, LLC <b>Field:</b> MONONGALIA COUNTY, WV <b>Site:</b> SC-1 WELL LOCATION <b>Well:</b> ACCESS SC-1 <b>Wellpath:</b> NORTH LEG 1	<b>Date:</b> 2/7/2008 <b>Co-ordinate(NE) Reference:</b> Well: ACCESS SC-1, Grid North <b>Vertical (TVD) Reference:</b> GL 1197.04 + 8 1205.0 <b>Section (VS) Reference:</b> Well (0.00N,0.00E,30.68Azi) <b>Survey Calculation Method:</b> Minimum Curvature <b>Db:</b> Sybase
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**Survey**

MD ft	Incl deg	Azim. deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude →		← Longitude →					
								Deg	Min	Sec	Deg	Min	Sec		
2335.00	89.23	14.08	1035.10	841.11	1008.17	424131.86	1756398.90	39	39	40.556	N	80	21	55.006	W
2367.00	91.34	18.88	1034.94	871.78	1017.24	424162.53	1756407.97	39	39	40.880	N	80	21	54.894	W
2399.00	90.74	19.62	1034.36	901.99	1027.79	424192.74	1756418.52	39	39	41.159	N	80	21	54.763	W
2431.00	92.96	17.95	1033.33	932.26	1038.09	424223.01	1756428.82	39	39	41.460	N	80	21	54.835	W
2461.00	94.33	16.44	1031.42	960.86	1046.94	424251.61	1756437.87	39	39	41.743	N	80	21	54.525	W
2493.00	92.32	12.74	1029.57	991.77	1054.98	424282.52	1756445.71	39	39	42.049	N	80	21	54.426	W
2524.00	91.41	10.71	1028.56	1022.11	1061.28	424312.86	1756452.01	39	39	42.350	N	80	21	54.349	W
2556.00	90.23	10.61	1028.10	1053.55	1067.20	424344.30	1756457.93	39	39	42.661	N	80	21	54.278	W
2588.00	88.86	13.94	1028.35	1084.81	1074.00	424375.56	1756464.73	39	39	42.971	N	80	21	54.195	W
2619.00	88.59	15.35	1029.04	1114.80	1081.84	424405.55	1756472.57	39	39	43.268	N	80	21	54.088	W
2651.00	89.29	15.04	1029.64	1145.67	1090.22	424436.42	1756480.95	39	39	43.574	N	80	21	53.995	W
2682.00	89.50	14.36	1029.86	1175.66	1098.09	424466.41	1756488.82	39	39	43.871	N	80	21	53.898	W
2714.00	89.29	14.33	1030.30	1206.66	1106.02	424497.41	1756496.75	39	39	44.178	N	80	21	53.800	W
2746.00	89.46	13.73	1030.65	1237.70	1113.77	424528.45	1756504.50	39	39	44.485	N	80	21	53.705	W
2777.00	90.91	11.84	1030.55	1267.93	1120.63	424558.68	1756511.36	39	39	44.785	N	80	21	53.621	W
2809.00	90.37	12.40	1030.19	1299.21	1127.35	424589.96	1756518.08	39	39	45.095	N	80	21	53.539	W
2840.00	90.60	13.97	1029.93	1329.39	1134.42	424620.14	1756525.15	39	39	45.394	N	80	21	53.452	W
2872.00	91.48	12.62	1029.35	1360.53	1141.78	424651.28	1756532.51	39	39	45.702	N	80	21	53.362	W
2904.00	91.21	13.15	1028.60	1391.72	1148.91	424682.47	1756539.64	39	39	46.011	N	80	21	53.274	W
2935.00	90.44	12.94	1028.15	1421.92	1155.88	424712.67	1756546.61	39	39	46.310	N	80	21	53.189	W
2967.00	91.58	12.62	1027.59	1453.13	1162.93	424743.88	1756553.66	39	39	46.619	N	80	21	53.103	W
2998.00	92.99	15.36	1026.35	1483.18	1170.42	424773.93	1756561.15	39	39	46.917	N	80	21	53.011	W
3030.00	91.82	15.63	1025.01	1513.99	1178.96	424804.74	1756569.69	39	39	47.222	N	80	21	52.905	W
3062.00	90.30	15.66	1024.42	1544.80	1187.59	424835.55	1756578.32	39	39	47.528	N	80	21	52.799	W
3094.00	92.32	17.15	1023.69	1575.48	1196.62	424866.23	1756587.35	39	39	47.832	N	80	21	52.687	W
3126.00	88.45	15.73	1023.47	1606.17	1205.68	424896.92	1756596.41	39	39	48.136	N	80	21	52.575	W
3158.00	87.37	14.44	1024.64	1637.04	1214.00	424927.79	1756604.73	39	39	48.442	N	80	21	52.472	W
3189.00	90.10	14.03	1025.32	1667.08	1221.62	424957.83	1756612.35	39	39	48.739	N	80	21	52.379	W
3221.00	90.47	15.47	1025.16	1698.03	1229.77	424988.78	1756620.50	39	39	49.046	N	80	21	52.278	W
3252.00	88.69	15.70	1025.39	1727.88	1238.10	425018.63	1756628.83	39	39	49.342	N	80	21	52.175	W
3284.00	89.30	14.40	1025.95	1758.78	1246.40	425049.53	1756637.13	39	39	49.648	N	80	21	52.073	W
3316.00	89.23	15.03	1026.36	1789.73	1254.53	425080.48	1756645.26	39	39	49.955	N	80	21	51.973	W
3347.00	86.97	15.28	1027.39	1819.63	1262.63	425110.38	1756653.36	39	39	50.251	N	80	21	51.873	W
3379.00	87.31	16.22	1028.99	1850.39	1271.31	425141.14	1756662.04	39	39	50.556	N	80	21	51.768	W
3410.00	89.36	16.77	1029.89	1880.10	1280.10	425170.85	1756670.83	39	39	50.850	N	80	21	51.657	W
3442.00	90.60	15.43	1029.90	1910.85	1288.98	425201.60	1756679.71	39	39	51.155	N	80	21	51.547	W
3472.00	91.61	14.88	1029.32	1939.80	1296.82	425230.55	1756687.55	39	39	51.442	N	80	21	51.451	W
3504.00	93.03	14.51	1028.02	1970.72	1304.93	425261.47	1756695.66	39	39	51.748	N	80	21	51.351	W
3534.00	92.12	15.39	1026.68	1999.68	1312.66	425290.43	1756703.39	39	39	52.035	N	80	21	51.255	W
3566.00	91.21	14.49	1025.75	2030.58	1320.91	425321.33	1756711.64	39	39	52.341	N	80	21	51.154	W
3597.00	92.12	14.16	1024.85	2060.61	1328.57	425351.36	1756719.30	39	39	52.639	N	80	21	51.059	W
3629.00	90.54	14.37	1024.10	2091.61	1336.46	425382.36	1756727.19	39	39	52.946	N	80	21	50.962	W
3661.00	90.34	14.02	1023.86	2122.63	1344.30	425413.38	1756735.03	39	39	53.253	N	80	21	50.866	W
3692.00	91.55	12.14	1023.35	2152.82	1351.32	425443.57	1756742.05	39	39	53.552	N	80	21	50.780	W
3724.00	89.06	14.21	1023.18	2183.98	1358.61	425474.73	1756749.34	39	39	53.861	N	80	21	50.691	W
3755.00	88.39	12.68	1023.87	2214.12	1365.82	425504.87	1756756.55	39	39	54.160	N	80	21	50.602	W
3787.00	88.42	13.12	1024.76	2245.30	1372.86	425536.05	1756763.69	39	39	54.468	N	80	21	50.515	W
3818.00	88.64	13.23	1026.09	2275.45	1380.02	425566.20	1756770.75	39	39	54.767	N	80	21	50.428	W
3850.00	85.79	13.60	1028.20	2306.51	1387.42	425597.26	1756778.15	39	39	55.075	N	80	21	50.337	W
3906.00	89.00	14.14	1030.75	2360.81	1400.83	425651.56	1756791.56	39	39	55.613	N	80	21	50.172	W



**CNX Gas Company, LLC**

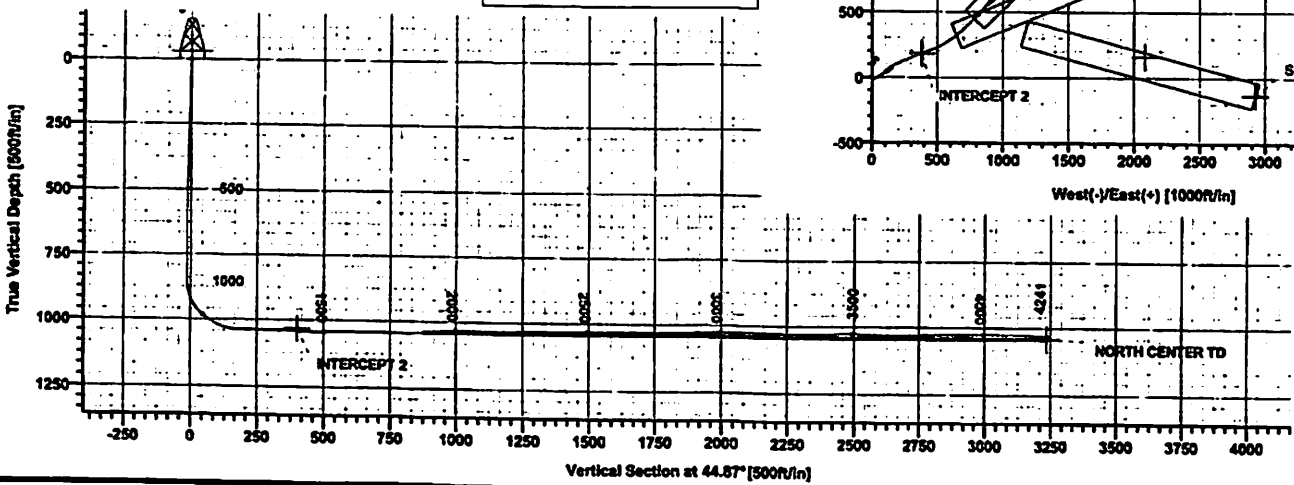
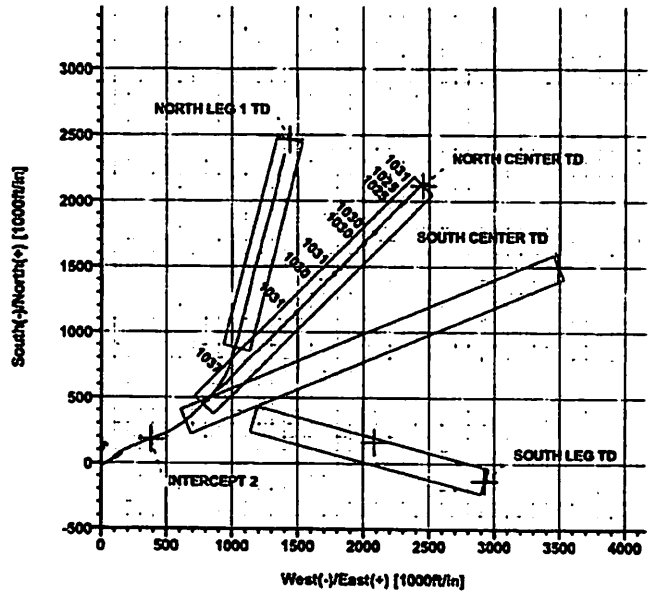
Field: MONONGALIA COUNTY, WV  
 Site: SC-1 WELL LOCATION  
 Well: ACCESS SC-1  
 Wellpath: NORTH CENTER LEG 2  
 Survey: Survey #1



Name	WTD	N	E	S	Circle (Radius: 1)	Rectangle (LxW)
INTERCEPT 2	1032.50	181.82	328.12	423471.77	1758778.88	Circle (Radius: 1)
NORTH CENTER TD	1040.00	2118.84	2458.58	428409.59	1757847.31	Rectangle (2360x200)
NORTH LEG 1 TD	1949.00	2469.09	1441.27	428759.84	1758832.50	Rectangle (1840x200)
SOUTH CENTER TD	1040.00	1900.00	3491.77	424790.75	1758882.50	Rectangle (3080x200)
SOUTH LEG TD	1040.00	-133.84	2828.33	423184.31	1758319.06	Rectangle (1825x200)

**SITE DETAILS**  
 SC-1 WELL LOCATION  
 Monongalia County, WV  
 Site Centre Northing: 423190.73  
 Easting: 1758390.73  
 Ground Level: 1187.04  
 Positional Uncertainty: 0.00  
 Convergence: -0.55

Plot Date: 2/26/2008  
 By: Carl McKay  
 Scientific Drilling, Inc.  
 800-476-7307  
 carl.mckay@scientificdrilling.com





## Scientific Drilling Survey Report

<b>Company:</b> CNX Gas Company, LLC <b>Field:</b> MONONGALIA COUNTY, WV <b>Site:</b> SC-1 WELL LOCATION <b>Well:</b> ACCESS SC-1 <b>Wellpath:</b> NORTH CENTER LEG 2	<b>Date:</b> 2/7/2008 <b>Co-ordinate(NE) Reference:</b> <b>Vertical (TVD) Reference:</b> <b>Section (VS) Reference:</b> <b>Survey Calculation Method:</b>	<b>Time:</b> 07:25:26 <b>Well:</b> ACCESS SC-1, Grid North <b>GL 1197.04 + 8 1205.01</b> <b>Well (0.00N,0.00E,44.87Azi)</b> <b>Minimum Curvature</b>	<b>Page:</b> 1 <b>Db:</b> Sybase							
<b>Field:</b> MONONGALIA COUNTY, WV Northern West Virginia and Pennsylvania Operations USA <b>Map System:</b> US State Plane Coordinate System 1927 <b>Geo Datum:</b> NAD27 (Clarke 1866) <b>Sys Datum:</b> Mean Sea Level										
<b>Map Zone:</b> West Virginia, Northern Zone <b>Coordinate System:</b> Well Centre <b>Geomagnetic Model:</b> Igrf2005										
<b>Site:</b> SC-1 WELL LOCATION Monongalia County, WV										
<b>Site Position:</b> <b>From:</b> Map <b>Position Uncertainty:</b> 0.00 ft <b>Ground Level:</b> 1197.04 ft		<b>Northings:</b> 423290.75 ft <b>Eastings:</b> 1755390.73 ft <b>Latitude:</b> 39 39 32.147 N <b>Longitude:</b> 80 22 7.793 W <b>North Reference:</b> Grid <b>Grid Convergence:</b> -0.55 deg								
<b>Well:</b> ACCESS SC-1 <b>Slot Name:</b>										
<b>Well Position:</b> +N-S 0.00 ft +E-W 0.00 ft <b>Position Uncertainty:</b> 0.00 ft		<b>Northings:</b> 423290.75 ft <b>Eastings:</b> 1755390.73 ft <b>Latitude:</b> 39 39 32.147 N <b>Longitude:</b> 80 22 7.793 W								
<b>Wellpath:</b> NORTH CENTER LEG 2										
<b>Current Datum:</b> GL 1197.04 + 8 <b>Magnetic Data:</b> 1/21/2008 <b>Field Strength:</b> 53204 nT <b>Vertical Section:</b> Depth From (TVD) ft		<b>Height:</b> 1205.04 ft <b>Drilled From:</b> NORTH LEG 1 <b>Tie-on Depth:</b> 1924.00 ft <b>Above System Datum:</b> Mean Sea Level <b>Declination:</b> -8.57 deg <b>Mag Dip Angle:</b> 67.67 deg <b>+E-W</b> Direction deg								
0.00 0.00		0.00 0.00 0.00 44.87								
<b>Survey:</b> Survey #1 <b>Company:</b> SDI <b>Tool:</b> MWD-SDI-SYS, Scientific MWD Systematic		<b>Start Date:</b> 2/1/2008 <b>Engineer:</b> Carl Bakay <b>Tied-to:</b> User Defined								
<b>Survey:</b> Survey #1										
<b>MD</b> ft	<b>Incl</b> deg	<b>Azlm</b> deg	<b>TVD</b> ft	<b>+N-S</b> ft	<b>+E-W</b> ft	<b>VS</b> ft	<b>DLS</b> deg/100ft	<b>Build</b> deg/100ft	<b>Turn</b> deg/100ft	<b>Tool/Comment</b>
1924.00	95.90	42.30	1037.08	486.22	814.99	919.56	0.00	0.00	0.00	MWD-SDI-SYS
1956.00	92.85	46.36	1034.64	509.04	837.28	951.46	15.84	-9.53	12.69	MWD-SDI-SYS
1987.00	91.51	50.16	1033.46	529.65	860.39	982.38	12.99	-4.32	12.26	MWD-SDI-SYS
2019.00	90.90	49.05	1032.79	550.39	884.76	1014.28	3.96	-1.91	-3.47	MWD-SDI-SYS
2050.00	88.76	48.81	1032.88	570.75	908.12	1045.18	6.95	-6.90	-0.77	MWD-SDI-SYS
2082.00	89.80	49.15	1033.28	591.75	932.27	1077.09	3.42	3.25	1.06	MWD-SDI-SYS
2113.00	89.97	46.96	1033.34	612.47	955.32	1108.04	7.09	0.55	-7.06	MWD-SDI-SYS
2145.00	89.30	44.42	1033.55	634.82	978.22	1140.04	8.21	-2.09	-7.94	MWD-SDI-SYS
2177.00	89.63	42.65	1033.85	658.02	1000.26	1172.03	5.63	1.03	-5.53	MWD-SDI-SYS
2208.00	91.71	41.58	1033.48	681.01	1021.04	1202.99	7.55	6.71	-3.45	MWD-SDI-SYS
2240.00	91.32	40.71	1032.64	705.10	1042.09	1234.91	2.88	-1.22	-2.72	MWD-SDI-SYS
2271.00	90.47	42.10	1032.15	728.35	1062.59	1265.85	5.26	-2.74	4.48	MWD-SDI-SYS
2303.00	90.10	42.22	1031.99	752.07	1084.07	1297.81	1.22	-1.16	0.37	MWD-SDI-SYS
2336.00	90.00	42.50	1031.97	776.45	1106.30	1330.78	0.90	-0.30	0.85	MWD-SDI-SYS
2367.00	89.23	44.84	1032.17	798.87	1127.71	1361.77	7.95	-2.48	7.55	MWD-SDI-SYS
2399.00	89.29	47.55	1032.59	821.02	1150.80	1393.75	8.47	0.19	8.47	MWD-SDI-SYS
2431.00	90.27	48.30	1032.71	842.46	1174.55	1425.71	3.86	3.06	2.34	MWD-SDI-SYS
2461.00	91.58	47.64	1032.23	862.55	1196.83	1455.66	4.89	4.37	-2.20	MWD-SDI-SYS
2493.00	92.22	47.84	1031.16	884.05	1220.50	1487.60	2.10	2.00	0.62	MWD-SDI-SYS
2524.00	90.77	47.63	1030.36	904.90	1243.43	1518.55	4.73	-4.68	-0.68	MWD-SDI-SYS
2556.00	89.26	45.99	1030.35	926.80	1266.76	1550.53	6.97	-4.72	-5.12	MWD-SDI-SYS
2588.00	89.03	45.24	1030.82	949.18	1289.63	1582.52	2.45	-0.72	-2.34	MWD-SDI-SYS
2619.00	90.67	44.67	1030.91	971.11	1311.53	1613.52	5.60	5.29	-1.84	MWD-SDI-SYS
2651.00	90.47	44.33	1030.59	993.94	1333.96	1645.52	1.23	-0.62	-1.06	MWD-SDI-SYS



## Scientific Drilling Survey Report

Company: CNX Gas Company, LLC	Date: 2/7/2008	Time: 07:25:26	Page: 2
Field: MONONGALIA COUNTY, WV	Co-ordinate(NE) Reference:	Well: ACCESS SC-1, Grid North	
Site: SC-1 WELL LOCATION	Vertical (TVD) Reference:	GL 1197.04 + 8-1205.0	
Well: ACCESS SC-1	Section (VS) Reference:	Well (0.00N,0.00E,44.87Azi)	
Wellpath: NORTH-CENTER LEG 2	Survey Calculation Method:	Minimum Curvature	Db: Sybase

**Survey: Survey #1**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Buid deg/100ft	Turn deg/100ft	Tool/Comment
2682.00	90.13	44.03	1030.43	1016.17	1355.56	1676.52	1.46	-1.10	-0.97	MWD-SDI-SYS
2714.00	89.53	43.91	1030.52	1039.20	1377.78	1708.51	1.91	-1.87	-0.37	MWD-SDI-SYS
2746.00	89.33	44.99	1030.84	1062.04	1400.19	1740.51	3.43	-0.62	3.37	MWD-SDI-SYS
2777.00	89.80	45.48	1031.07	1083.87	1422.20	1771.51	2.19	1.52	1.58	MWD-SDI-SYS
2809.00	89.30	45.89	1031.33	1106.22	1445.09	1803.50	2.02	-1.56	1.28	MWD-SDI-SYS
2840.00	90.10	45.91	1031.49	1127.80	1467.35	1834.50	2.58	2.58	0.06	MWD-SDI-SYS
2872.00	91.34	45.63	1031.09	1150.12	1490.28	1866.49	3.97	3.87	-0.87	MWD-SDI-SYS
2904.00	92.62	45.29	1029.98	1172.55	1513.07	1898.47	4.14	4.00	-1.06	MWD-SDI-SYS
2935.00	91.11	45.06	1028.97	1194.39	1535.05	1929.45	4.93	-4.87	-0.74	MWD-SDI-SYS
2967.00	91.45	43.18	1028.26	1217.35	1557.32	1961.44	5.97	1.06	-5.87	MWD-SDI-SYS
2998.00	91.51	42.29	1027.46	1240.12	1578.35	1992.41	2.88	0.19	-2.87	MWD-SDI-SYS
3030.00	90.50	41.58	1026.89	1263.92	1599.73	2024.36	3.86	-3.16	-2.22	MWD-SDI-SYS
3062.00	90.97	42.69	1026.48	1287.64	1621.20	2056.32	3.77	1.47	3.47	MWD-SDI-SYS
3094.00	86.99	43.83	1026.49	1310.95	1643.13	2088.31	7.14	-6.19	3.56	MWD-SDI-SYS
3126.00	88.79	44.18	1027.11	1333.96	1665.35	2120.30	1.26	-0.62	1.09	MWD-SDI-SYS
3158.00	90.64	44.84	1027.27	1356.78	1687.78	2152.29	6.14	5.78	2.06	MWD-SDI-SYS
3189.00	89.13	46.41	1027.34	1378.46	1709.94	2183.29	7.03	-4.87	5.06	MWD-SDI-SYS
3221.00	88.66	46.05	1027.95	1400.59	1733.04	2215.27	1.85	-1.47	-1.12	MWD-SDI-SYS
3252.00	88.12	45.50	1028.82	1422.20	1755.25	2246.26	2.49	-1.74	-1.77	MWD-SDI-SYS
3284.00	87.88	44.60	1029.94	1444.80	1777.88	2278.24	2.91	-0.75	-2.81	MWD-SDI-SYS
3315.00	89.36	44.67	1030.69	1466.85	1799.66	2309.23	4.78	4.77	0.23	MWD-SDI-SYS
3347.00	90.91	44.99	1030.61	1489.54	1822.22	2341.23	4.95	4.84	1.00	MWD-SDI-SYS
3379.00	91.61	45.04	1029.91	1512.16	1844.84	2373.22	2.19	2.19	0.16	MWD-SDI-SYS
3410.00	92.62	44.22	1028.76	1534.20	1866.61	2404.20	4.20	3.26	-2.65	MWD-SDI-SYS
3442.00	92.82	43.56	1027.25	1557.24	1888.77	2436.16	2.15	0.62	-2.06	MWD-SDI-SYS
3472.00	91.24	43.42	1026.18	1578.99	1909.40	2466.13	5.29	-5.27	-0.47	MWD-SDI-SYS
3504.00	88.62	41.48	1026.22	1602.60	1931.00	2498.09	10.19	-8.19	-6.06	MWD-SDI-SYS
3534.00	87.45	42.19	1027.25	1624.94	1950.99	2528.03	4.56	-3.90	2.37	MWD-SDI-SYS
3566.00	87.82	42.83	1028.57	1648.50	1972.60	2559.98	2.31	1.16	2.00	MWD-SDI-SYS
3597.00	88.42	42.84	1029.59	1671.23	1993.66	2590.94	1.94	1.94	0.03	MWD-SDI-SYS
3629.00	88.05	45.03	1030.57	1694.26	2015.85	2622.92	6.94	-1.16	6.84	MWD-SDI-SYS
3661.00	88.96	44.92	1031.41	1716.89	2038.46	2654.91	2.86	2.84	-0.34	MWD-SDI-SYS
3692.00	91.27	44.88	1031.35	1738.84	2060.34	2685.91	7.45	7.45	-0.13	MWD-SDI-SYS
3724.00	92.55	43.79	1030.28	1761.72	2082.69	2717.89	5.25	4.00	-3.41	MWD-SDI-SYS
3755.00	92.83	43.05	1028.83	1784.21	2103.98	2748.84	2.55	0.90	-2.39	MWD-SDI-SYS
3787.00	91.18	42.86	1027.71	1807.61	2125.77	2780.80	5.19	-5.16	-0.59	MWD-SDI-SYS
3818.00	91.38	43.18	1027.01	1830.27	2146.91	2811.78	1.22	0.65	1.03	MWD-SDI-SYS
3850.00	90.20	44.00	1026.57	1853.45	2168.97	2843.77	4.49	-3.69	2.56	MWD-SDI-SYS
3881.00	90.07	44.14	1026.50	1875.72	2190.54	2874.77	0.62	-0.42	0.45	MWD-SDI-SYS
3913.00	89.87	44.63	1026.52	1898.59	2212.92	2906.76	1.65	-0.62	1.53	MWD-SDI-SYS
3945.00	90.70	44.63	1026.36	1921.36	2235.40	2938.76	2.59	2.59	0.00	MWD-SDI-SYS
3977.00	91.68	44.65	1025.69	1944.13	2257.88	2970.76	3.06	3.06	0.06	MWD-SDI-SYS
4009.00	90.74	44.45	1025.02	1966.93	2280.32	3002.75	3.00	-2.94	-0.62	MWD-SDI-SYS
4041.00	89.39	44.51	1024.98	1989.76	2302.74	3034.75	4.22	-4.22	0.19	MWD-SDI-SYS
4072.00	89.02	44.61	1025.41	2011.84	2324.49	3065.74	1.24	-1.19	0.32	MWD-SDI-SYS
4104.00	88.28	45.29	1026.16	2034.48	2347.09	3097.73	3.14	-2.31	2.12	MWD-SDI-SYS
4135.00	88.32	44.59	1027.08	2056.42	2368.98	3128.72	2.26	0.13	-2.26	MWD-SDI-SYS
4167.00	87.82	46.49	1028.16	2078.82	2391.81	3160.70	6.14	-1.56	5.94	MWD-SDI-SYS
4199.00	87.95	47.23	1029.34	2100.68	2415.14	3192.66	2.35	0.41	2.31	MWD-SDI-SYS
4241.00	87.95	47.23	1030.85	2129.18	2445.95	3234.59	0.00	0.00	0.00	MWD-SDI-SYS



## Scientific Drilling Survey Report - Geographic

Company: CNX Gas Company, LLC		Date: 2/7/2008	Time: 07:24:30	Page: 1
Field: MONONGALIA COUNTY, WV		Co-ordinate(NE) Reference:	Well: ACCESS SC-1; Grid North:	
Site: SC-1 WELL LOCATION		Vertical (TVD) Reference:	GL 1197.04 + 8 1205.0	
Well: ACCESS SC-1		Section (VS) Reference:	Well (0.00N,0.00E,44.87Azi)	
Wellpath: NORTH CENTER LEG 2		Survey Calculation Method:	Minimum Curvature Db: Sybase	

Field: MONONGALIA COUNTY, WV Northern West Virginia and Pennsylvania Operations USA		Map System: US State Plane Coordinate System 1927	Map Zone: West Virginia, Northern Zone
Map Datum: NAD27 (Clarke 1866)		Coordinate System: Well Centre	
Sys Datum: Mean Sea Level		Geomagnetic Model: igrf2005	

Site: SC-1 WELL LOCATION Monongalia County, WV		Site Position:	North: 423280.75 ft	Latitude: 39 39 32.147 N
From: Map	East: 1755390.73 ft	Longitude: 80 22 7.793 W		
Position Uncertainty: 0.00 ft		North Reference: Grid		
Ground Level: 1197.04 ft		Grid Convergence: -0.55 deg		

Well: ACCESS SC-1		Slot Name:		
Well Position: +N-S 0.00 ft	North: 423290.75 ft	Latitude: 39 39 32.147 N		
+E-W 0.00 ft	East: 1755390.73 ft	Longitude: 80 22 7.793 W		
Position Uncertainty: 0.00 ft				

Wellpath: NORTH CENTER LEG 2		Drilled From: NORTH LEG 1	
Current Datum: GL 1197.04 + 8	Height 1205.04 ft	Tie-on Depth: 1924.00 ft	
Magnetic Data: 1/21/2008		Above System Datum: Mean Sea Level	
Field Strength: 53204 nT		Declination: -8.57 deg	
Vertical Section: Depth From (TVD)	+N-S	+E-W	Mag Dip Angle: 67.67 deg
ft	ft	ft	Direction deg
0.00	0.00	0.00	44.87

Survey: Survey #1	Start Date: 2/1/2008
Company: SDI	Engineer: Carl Bakay
Tool: MWD-SDI-SYS, Scientific MWD Systematic	Tied-to: User Defined

Survey: Survey #1											
MD	Incl	Azlm	TVD	+N-S	+E-W	Map	Map	Latitude		Longitude	
ft	deg	deg	ft	ft	ft	Northing	Easting	Deg	Min	Sec	
1924.00	95.90	42.30	1037.08	486.22	814.99	423778.97	1756205.72	39	39	37.030 N	80 21 57.433 W
1956.00	92.85	46.36	1034.64	509.04	837.28	423799.79	1756228.01	39	39	37.258 N	80 21 57.150 W
1987.00	91.51	50.16	1033.46	529.65	860.39	423820.40	1756251.12	39	39	37.464 N	80 21 56.858 W
2019.00	90.90	49.05	1032.79	550.39	884.76	423841.14	1756275.49	39	39	37.671 N	80 21 56.549 W
2050.00	88.76	48.81	1032.88	570.75	908.12	423861.50	1756298.85	39	39	37.874 N	80 21 56.252 W
2082.00	89.80	49.15	1033.28	591.75	932.27	423882.50	1756323.00	39	39	38.084 N	80 21 55.946 W
2113.00	89.97	46.96	1033.34	612.47	955.32	423903.22	1756346.05	39	39	38.291 N	80 21 55.654 W
2145.00	89.30	44.42	1033.55	634.82	978.22	423925.57	1756368.95	39	39	38.514 N	80 21 55.364 W
2177.00	89.63	42.65	1033.85	658.02	1000.26	423948.77	1756390.99	39	39	38.746 N	80 21 55.085 W
2208.00	91.71	41.58	1033.48	681.01	1021.04	423971.76	1756411.77	39	39	38.975 N	80 21 54.822 W
2240.00	91.32	40.71	1032.64	705.10	1042.09	423995.85	1756432.82	39	39	39.215 N	80 21 54.556 W
2271.00	90.47	42.10	1032.15	728.35	1062.59	424019.10	1756453.32	39	39	39.447 N	80 21 54.297 W
2303.00	90.10	42.22	1031.99	752.07	1084.07	424042.82	1756474.80	39	39	39.683 N	80 21 54.025 W
2336.00	90.00	42.50	1031.97	776.45	1106.30	424067.20	1756497.03	39	39	39.926 N	80 21 53.744 W
2367.00	89.23	44.84	1032.17	798.87	1127.71	424089.62	1756518.44	39	39	40.150 N	80 21 53.473 W
2399.00	89.29	47.55	1032.59	821.02	1150.80	424111.77	1756541.53	39	39	40.371 N	80 21 53.180 W
2431.00	90.27	48.30	1032.71	842.46	1174.55	424133.21	1756565.28	39	39	40.585 N	80 21 52.879 W
2461.00	91.58	47.64	1032.23	862.55	1196.83	424153.30	1756587.56	39	39	40.786 N	80 21 52.597 W
2493.00	92.22	47.84	1031.16	884.05	1220.50	424174.80	1756611.23	39	39	41.000 N	80 21 52.297 W
2524.00	90.77	47.63	1030.36	904.90	1243.43	424195.85	1756634.16	39	39	41.209 N	80 21 52.006 W
2556.00	89.26	45.99	1030.35	926.80	1266.76	424217.55	1756657.49	39	39	41.427 N	80 21 51.710 W
2588.00	89.03	45.24	1030.82	949.18	1289.63	424239.93	1756680.36	39	39	41.651 N	80 21 51.421 W
2619.00	90.67	44.67	1030.91	971.11	1311.53	424261.86	1756702.26	39	39	41.870 N	80 21 51.143 W



## Scientific Drilling Survey Report - Geographic

<b>Company:</b> CNX Gas Company, LLC <b>Field:</b> MONONGALIA COUNTY, WV <b>Site:</b> SC-1 WELL LOCATION <b>Well:</b> ACCESS SC-1 <b>Wellpath:</b> NORTH CENTER LEG 2	<b>Date:</b> 2/7/2008 <b>Co-ordinate(NE) Reference:</b> 424284.69 <b>Vertical (TVD) Reference:</b> 424374.62 <b>Section (VS) Reference:</b> 424398.97 <b>Survey Calculation Method:</b> Minimum Curvature	<b>Time:</b> 07:24:30 <b>Well:</b> ACCESS SC-1, Grid North <b>GL 1197.04 + 8 1205.0'</b> <b>Well (0.00N,0.00E,44.87Azi)</b> <b>Db:</b> Sybase	<b>Page:</b> 2
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**Survey: Survey #1**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude →		← Longitude →					
								Deg	Min	Sec	Deg	Min	Sec		
2651.00	90.47	44.33	1030.59	993.94	1333.96	424284.69	1756724.69	39	39	42.097	N	80	21	50.859	W
2682.00	90.13	44.03	1030.43	1016.17	1355.56	424306.92	1756746.29	39	39	42.319	N	80	21	50.586	W
2714.00	89.53	43.91	1030.52	1039.20	1377.78	424329.95	1756768.51	39	39	42.549	N	80	21	50.305	W
2746.00	89.33	44.99	1030.84	1062.04	1400.19	424352.79	1756790.92	39	39	42.777	N	80	21	50.021	W
2777.00	89.80	45.48	1031.07	1083.87	1422.20	424374.62	1756812.93	39	39	42.994	N	80	21	49.742	W
2809.00	89.30	45.89	1031.33	1106.22	1445.09	424398.97	1756835.82	39	39	43.218	N	80	21	49.452	W
2840.00	90.10	45.91	1031.49	1127.80	1467.35	424418.55	1756858.08	39	39	43.433	N	80	21	49.170	W
2872.00	91.34	45.63	1031.09	1150.12	1490.28	424440.87	1756881.01	39	39	43.656	N	80	21	48.880	W
2904.00	92.62	45.29	1029.98	1172.55	1513.07	424463.30	1756903.80	39	39	43.879	N	80	21	48.591	W
2935.00	91.11	45.06	1028.97	1194.39	1535.05	424485.14	1756925.78	39	39	44.097	N	80	21	48.313	W
2967.00	91.45	43.18	1028.26	1217.35	1557.32	424508.10	1756948.05	39	39	44.327	N	80	21	48.031	W
2998.00	91.51	42.29	1027.46	1240.12	1578.35	424530.87	1756969.08	39	39	44.553	N	80	21	47.765	W
3030.00	90.50	41.58	1026.89	1263.92	1599.73	424554.67	1756990.46	39	39	44.791	N	80	21	47.494	W
3062.00	90.97	42.69	1026.48	1287.64	1621.20	424578.39	1757011.93	39	39	45.027	N	80	21	47.223	W
3094.00	88.99	43.83	1026.49	1310.95	1643.13	424601.70	1757033.86	39	39	45.260	N	80	21	46.945	W
3126.00	88.79	44.18	1027.11	1333.96	1665.35	424624.71	1757056.08	39	39	45.489	N	80	21	46.664	W
3158.00	90.64	44.84	1027.27	1356.78	1687.78	424647.53	1757078.51	39	39	45.717	N	80	21	46.380	W
3189.00	89.13	46.41	1027.34	1378.46	1709.94	424669.21	1757100.67	39	39	45.933	N	80	21	46.099	W
3221.00	88.66	46.05	1027.95	1400.59	1733.04	424691.34	1757123.77	39	39	46.154	N	80	21	45.806	W
3252.00	88.12	45.50	1028.82	1422.20	1755.25	424712.95	1757145.98	39	39	46.370	N	80	21	45.525	W
3284.00	87.88	44.60	1028.94	1444.80	1777.88	424735.55	1757168.61	39	39	46.595	N	80	21	45.238	W
3315.00	89.36	44.67	1030.89	1466.85	1799.66	424757.60	1757190.39	39	39	46.815	N	80	21	44.963	W
3347.00	90.91	44.99	1030.61	1489.54	1822.22	424780.29	1757212.95	39	39	47.042	N	80	21	44.677	W
3379.00	91.61	45.04	1029.91	1512.16	1844.84	424802.91	1757235.57	39	39	47.267	N	80	21	44.391	W
3410.00	92.62	44.22	1028.76	1534.20	1866.61	424824.95	1757257.34	39	39	47.487	N	80	21	44.115	W
3442.00	92.82	43.56	1027.25	1557.24	1888.77	424847.99	1757279.50	39	39	47.717	N	80	21	43.834	W
3472.00	91.24	43.42	1026.18	1578.99	1909.40	424869.74	1757300.13	39	39	47.934	N	80	21	43.573	W
3504.00	88.62	41.48	1026.22	1602.60	1931.00	424893.35	1757321.73	39	39	48.169	N	80	21	43.300	W
3534.00	87.45	42.19	1027.25	1624.94	1950.99	424915.69	1757341.72	39	39	48.392	N	80	21	43.047	W
3566.00	87.82	42.83	1028.57	1648.50	1972.60	424939.25	1757363.33	39	39	48.627	N	80	21	42.774	W
3597.00	88.42	42.84	1029.59	1671.23	1993.68	424961.98	1757384.39	39	39	48.854	N	80	21	42.507	W
3629.00	88.05	45.03	1030.57	1694.26	2015.85	424985.01	1757406.58	39	39	49.083	N	80	21	42.226	W
3661.00	88.96	44.92	1031.41	1716.89	2038.46	425007.64	1757429.19	39	39	49.309	N	80	21	41.940	W
3692.00	91.27	44.88	1031.35	1738.84	2060.34	425029.59	1757451.07	39	39	49.528	N	80	21	41.663	W
3724.00	92.55	43.79	1030.28	1761.72	2082.69	425052.47	1757473.42	39	39	49.756	N	80	21	41.380	W
3755.00	92.83	43.05	1028.83	1784.21	2103.98	425074.98	1757494.71	39	39	49.981	N	80	21	41.110	W
3787.00	91.18	42.86	1027.71	1807.61	2125.77	425098.36	1757516.50	39	39	50.214	N	80	21	40.835	W
3818.00	91.38	43.18	1027.01	1830.27	2146.91	425121.02	1757537.64	39	39	50.440	N	80	21	40.567	W
3850.00	90.20	44.00	1026.57	1853.45	2168.97	425144.20	1757559.70	39	39	50.671	N	80	21	40.288	W
3881.00	90.07	44.14	1026.50	1875.72	2190.54	425166.47	1757581.27	39	39	50.893	N	80	21	40.015	W
3913.00	89.87	44.63	1028.52	1898.59	2212.92	425189.34	1757603.65	39	39	51.122	N	80	21	39.731	W
3945.00	90.70	44.63	1026.36	1921.36	2235.40	425212.11	1757626.13	39	39	51.349	N	80	21	39.447	W
3977.00	91.68	44.65	1025.69	1944.13	2257.88	425234.88	1757648.61	39	39	51.576	N	80	21	39.162	W
4009.00	90.74	44.45	1025.02	1966.93	2280.32	425257.68	1757671.05	39	39	51.803	N	80	21	38.878	W
4041.00	89.39	44.51	1024.98	1989.76	2302.74	425280.51	1757693.47	39	39	52.031	N	80	21	38.594	W
4072.00	89.02	44.61	1025.41	2011.84	2324.49	425302.59	1757715.22	39	39	52.251	N	80	21	38.319	W
4104.00	88.28	45.29	1026.16	2034.48	2347.09	425325.23	1757737.82	39	39	52.477	N	80	21	38.032	W
4135.00	88.32	44.59	1027.08	2056.42	2368.98	425347.17	1757759.71	39	39	52.696	N	80	21	37.755	W
4167.00	87.82	46.49	1026.16	2078.82	2391.81	425369.57	1757782.54	39	39	52.920	N	80	21	37.466	W
4199.00	87.95	47.23	1029.34	2100.68	2415.14	425391.43	1757805.87	39	39	53.138	N	80	21	37.170	W
4241.00	87.95	47.23	1030.85	2129.18	2445.95	425419.93	1757836.68	39	39	53.423	N	80	21	36.780	W





**CNX Gas Company, LLC**

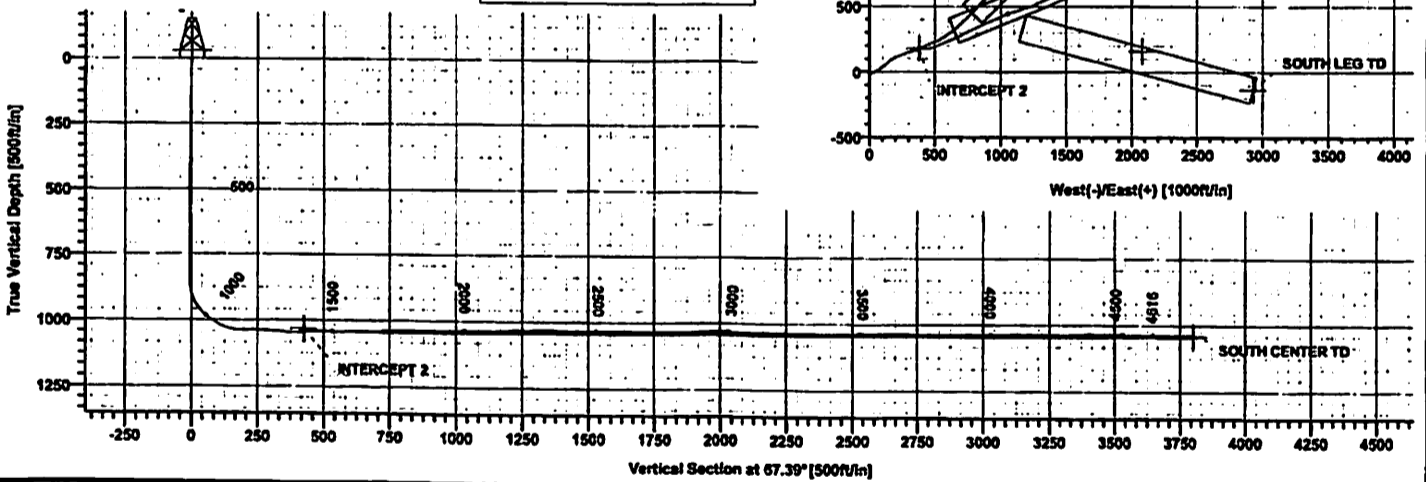
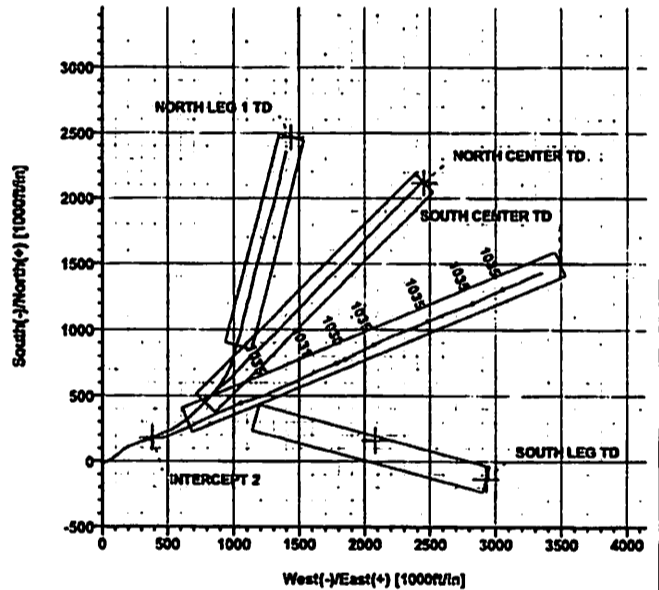
Field: MONONGALIA COUNTY, WV  
 Site: SC-1 WELL LOCATION  
 Well: ACCESS SC-1  
 Wellpath: SOUTH CENTER LEG 3



Name	Northing	Easting	Circle (Radius:)
INTERCEPT 2	1032.50	181.02	325.12
NORTH CENTER TD	1040.00	2118.84	3458.58
NORTH LEG 1 TD	1040.00	2488.09	1441.27
SOUTH CENTER TD	1040.00	1500.00	3481.77
SOUTH LEG TD	1040.00	-133.84	2928.33

**WELL LOCATION**  
 Monongalia County, WV  
 Site Centre Northing: 422290.75  
 Easting: 1785390.73  
 Ground Level: 1197.04  
 Positional Uncertainty: 0.00  
 Convergence: -0.55

Plot Date: 2/24/2008  
 By: Carl Bakay  
 Scientific Drilling, Inc.  
 800-676-7700  
 carl.bakay@scientificdrilling.com





## Scientific Drilling Survey Report

<b>Company:</b> CNX Gas Company, LLC <b>Field:</b> MONONGALIA COUNTY, WV <b>Site:</b> SC-1 WELL LOCATION <b>Well:</b> ACCESS:SC-1 <b>Wellpath:</b> SOUTH CENTER LEG 3	<b>Date:</b> 2/8/2008 <b>Co-ordinate(NE) Reference:</b> <b>Vertical (TVD) Reference:</b> <b>Section (VS) Reference:</b> <b>Survey Calculation Method:</b>	<b>Time:</b> 09:34:26 <b>Well:</b> ACCESS SC-1, Grid North <b>GL:</b> 1197.04 + 8 1205.0 <b>Well (0.00N,0.00E,67.39Azi)</b> <b>Minimum Curvature</b>	<b>Page:</b> 1 <b>DB:</b> Sybase							
<b>Field:</b> MONONGALIA COUNTY, WV Northern West Virginia and Pennsylvania Operations USA <b>Map System:</b> US State Plane Coordinate System 1927 <b>Geo Datum:</b> NAD27 (Clarke 1866) <b>Sys Datum:</b> Mean Sea Level										
<b>Map Zone:</b> West Virginia, Northern Zone <b>Coordinate System:</b> Well Centre <b>Geomagnetic Model:</b> igrf2005										
<b>Site:</b> SC-1 WELL LOCATION Monongalia County, WV <b>Site Position:</b>										
<b>From:</b> Map <b>Position Uncertainty:</b> 0.00 ft <b>Ground Level:</b> 1197.04 ft		<b>Northing:</b> 423290.75 ft <b>Easting:</b> 1755390.73 ft <b>Latitude:</b> 39 39 32.147 N <b>Longitude:</b> 80 22 7.793 W <b>North Reference:</b> Grid <b>Grid Convergence:</b> -0.55 deg								
<b>Well:</b> ACCESS SC-1 <b>Slot Name:</b>										
<b>Well Position:</b> +N-S 0.00 ft +E-W 0.00 ft <b>Position Uncertainty:</b> 0.00 ft		<b>Northing:</b> 423290.75 ft <b>Easting:</b> 1755390.73 ft <b>Latitude:</b> 39 39 32.147 N <b>Longitude:</b> 80 22 7.793 W								
<b>Wellpath:</b> SOUTH CENTER LEG 3 <b>Drilled From:</b> NORTH LEG 1 <b>Tie-on Depth:</b> 1258.00 ft <b>Above System Datum:</b> Mean Sea Level <b>Declination:</b> -8.57 deg <b>Mag Dip Angle:</b> 67.67 deg <b>Direction:</b> deg										
<b>Current Datum:</b> GL 1197.04 + 8 <b>Magnetic Data:</b> 1/21/2008 <b>Field Strength:</b> 53204 nT <b>Vertical Section:</b> Depth From (TVD) ft		<b>Height:</b> 1205.04 ft +N-S ft +E-W ft Direction deg								
0.00		0.00								
0.00		67.39								
<b>Survey:</b> Survey #1 <b>Start Date:</b> 2/8/2008 <b>Company:</b> SDI <b>Tool:</b> MWD-SDI-SYS, Scientific MWD Systematic <b>Engineer:</b> Carl Bakay <b>Tied-to:</b> User Defined										
<b>Survey:</b> Survey #1										
MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Tern deg/100ft	Tool/Comment
1258.00	88.64	68.95	1039.09	136.41	261.87	294.00	0.00	0.00	0.00	MWD-SDI-SYS
1291.00	85.29	71.41	1041.42	147.57	282.63	326.88	8.49	-4.09	7.45	MWD-SDI-SYS
1323.00	84.65	75.94	1044.22	156.53	323.22	358.55	14.24	-2.00	14.16	MWD-SDI-SYS
1354.00	92.25	79.61	1045.06	163.08	353.47	389.01	27.22	24.52	11.84	MWD-SDI-SYS
1386.00	93.36	80.92	1043.50	168.49	384.97	420.16	5.36	3.47	4.09	MWD-SDI-SYS
1419.00	91.85	78.32	1042.00	174.43	417.40	452.38	9.10	-4.58	-7.88	MWD-SDI-SYS
1450.00	90.37	77.04	1041.40	181.04	447.68	482.87	6.31	-4.77	-4.13	MWD-SDI-SYS
1482.00	89.53	75.15	1041.42	188.73	478.74	514.50	6.46	-2.62	-5.91	MWD-SDI-SYS
1513.00	89.06	70.62	1041.81	197.85	508.35	545.35	14.69	-1.52	-14.61	MWD-SDI-SYS
1545.00	89.70	68.07	1042.15	209.14	538.29	577.32	8.22	2.00	-7.97	MWD-SDI-SYS
1577.00	90.87	67.83	1041.99	221.15	567.95	609.32	3.73	3.66	-0.75	MWD-SDI-SYS
1608.00	90.27	66.88	1041.68	233.08	596.56	640.32	3.62	-1.94	-3.06	MWD-SDI-SYS
1640.00	88.48	65.58	1042.03	245.98	625.84	672.31	6.91	-5.59	-4.08	MWD-SDI-SYS
1671.00	89.06	65.20	1042.70	258.89	654.02	703.28	2.24	1.87	-1.23	MWD-SDI-SYS
1703.00	90.64	64.71	1042.78	272.43	683.01	735.25	5.17	4.94	-1.53	MWD-SDI-SYS
1735.00	92.05	64.99	1042.03	286.03	711.97	767.21	4.49	4.41	0.87	MWD-SDI-SYS
1766.00	92.16	63.91	1040.89	299.39	739.92	798.15	3.50	0.35	-3.48	MWD-SDI-SYS
1798.00	92.22	64.23	1039.67	313.37	768.67	830.07	1.02	0.19	1.00	MWD-SDI-SYS
1830.00	91.75	64.00	1038.56	327.33	797.44	862.00	1.63	-1.47	-0.72	MWD-SDI-SYS
1861.00	90.84	64.59	1037.86	340.78	825.37	892.95	3.50	-2.94	1.90	MWD-SDI-SYS
1893.00	89.93	64.52	1037.65	354.52	854.26	924.91	2.85	-2.84	-0.22	MWD-SDI-SYS
1925.00	89.39	64.14	1037.84	368.39	883.11	956.86	2.06	-1.69	-1.19	MWD-SDI-SYS
1956.00	91.65	65.49	1037.55	381.58	911.15	987.83	8.49	7.29	4.35	MWD-SDI-SYS
1988.00	93.13	66.79	1036.22	394.51	940.39	1019.79	6.15	4.62	4.06	MWD-SDI-SYS



## Scientific Drilling Survey Report

<b>Company:</b> CNX Gas Company, LLC <b>Field:</b> MONONGALIA COUNTY, WV <b>Site:</b> SC-1 WELL LOCATION <b>Well:</b> ACCESS/SC-1 <b>Wellpath:</b> SOUTH CENTER LEG 3	<b>Date:</b> 2/8/2008 <b>Time:</b> 09:34:26 <b>Page:</b> 2 <b>Co-ordinate(NE) Reference:</b> Well: ACCESS.SC-1, Grid North <b>Vertical (TVD) Reference:</b> GL 1197.04 + 8.1205.0 <b>Section (VS) Reference:</b> Well (0.00N,0.00E,67.39Azi) <b>Survey Calculation Method:</b> Minimum Curvature <b>Db:</b> Sybase
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Survey: Survey #1										
MD R	Incl deg	Azlm deg	TVD R	+N/-S R	+E/-W R	VS R	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2019.00	90.81	67.21	1035.15	406.61	968.91	1050.77	7.61	-7.48	1.35	MWD-SDI-SYS
2051.00	89.36	66.55	1035.11	419.18	998.34	1082.77	4.98	-4.53	-2.06	MWD-SDI-SYS
2082.00	89.53	67.30	1035.41	431.33	1026.86	1113.76	2.48	0.55	2.42	MWD-SDI-SYS
2114.00	91.17	67.64	1035.21	443.59	1056.41	1145.76	5.23	5.12	1.06	MWD-SDI-SYS
2146.00	92.79	69.23	1034.11	455.34	1086.15	1177.73	7.09	5.06	4.97	MWD-SDI-SYS
2177.00	91.31	70.52	1033.00	466.00	1115.24	1208.68	6.33	-4.77	4.16	MWD-SDI-SYS
2209.00	91.08	71.46	1032.33	476.42	1145.49	1240.61	3.02	-0.72	2.94	MWD-SDI-SYS
2240.00	91.14	73.27	1031.73	485.81	1175.02	1271.49	5.84	0.19	5.84	MWD-SDI-SYS
2272.00	90.94	71.64	1031.15	495.46	1205.53	1303.36	5.13	-0.62	-5.09	MWD-SDI-SYS
2304.00	89.90	67.70	1030.91	506.57	1235.53	1335.33	12.73	-3.25	-12.31	MWD-SDI-SYS
2335.00	87.85	66.21	1031.52	518.70	1264.05	1366.32	8.17	-6.61	-4.81	MWD-SDI-SYS
2368.00	87.48	64.92	1032.87	532.34	1294.07	1399.27	4.06	-1.12	-3.91	MWD-SDI-SYS
2400.00	88.76	66.09	1033.92	545.60	1323.17	1431.24	5.42	4.00	3.88	MWD-SDI-SYS
2431.00	89.63	66.87	1034.35	557.97	1351.59	1462.23	3.77	2.81	2.52	MWD-SDI-SYS
2462.00	90.47	67.88	1034.32	569.90	1380.20	1493.23	4.24	2.71	3.26	MWD-SDI-SYS
2493.00	91.04	68.28	1033.92	581.47	1408.96	1524.22	2.25	1.84	1.29	MWD-SDI-SYS
2525.00	90.47	66.87	1033.49	593.67	1438.54	1556.22	4.75	-1.78	-4.41	MWD-SDI-SYS
2557.00	90.77	66.05	1033.15	606.45	1467.87	1588.21	2.73	0.94	-2.56	MWD-SDI-SYS
2588.00	90.17	64.92	1032.89	619.32	1496.08	1619.19	4.13	-1.94	-3.65	MWD-SDI-SYS
2620.00	89.70	64.01	1032.93	633.11	1524.95	1651.15	3.20	-1.47	-2.84	MWD-SDI-SYS
2651.00	88.25	63.46	1033.49	646.83	1552.74	1682.08	5.00	-4.68	-1.77	MWD-SDI-SYS
2683.00	89.46	64.19	1034.12	660.94	1581.46	1714.01	4.42	3.78	2.28	MWD-SDI-SYS
2715.00	90.00	64.73	1034.28	674.73	1610.33	1745.97	2.39	1.69	1.69	MWD-SDI-SYS
2746.00	90.67	66.33	1034.09	687.57	1638.54	1776.95	5.60	2.16	5.16	MWD-SDI-SYS
2778.00	89.03	67.69	1034.18	700.07	1668.00	1808.95	6.66	-5.12	4.25	MWD-SDI-SYS
2809.00	89.83	67.32	1034.49	711.93	1696.64	1839.95	2.84	2.58	-1.19	MWD-SDI-SYS
2841.00	92.18	67.48	1033.93	724.23	1726.18	1871.94	7.36	7.34	0.50	MWD-SDI-SYS
2873.00	92.63	67.33	1032.58	736.51	1755.69	1903.91	1.48	1.41	-0.47	MWD-SDI-SYS
2904.00	92.75	67.30	1031.13	748.45	1784.26	1934.88	0.40	0.39	-0.10	MWD-SDI-SYS
2936.00	92.15	64.53	1029.76	761.50	1813.45	1966.83	8.85	-1.87	-8.66	MWD-SDI-SYS
2967.00	88.32	64.15	1029.63	774.92	1841.39	1997.78	12.42	-12.35	-1.23	MWD-SDI-SYS
2999.00	85.55	63.59	1031.34	788.99	1870.07	2029.68	8.83	-8.66	-1.75	MWD-SDI-SYS
3031.00	87.89	63.61	1033.17	803.20	1898.68	2061.55	7.31	7.31	0.06	MWD-SDI-SYS
3062.00	89.53	64.67	1033.87	816.71	1926.57	2092.49	6.30	5.29	3.42	MWD-SDI-SYS
3094.00	90.44	65.00	1033.88	830.32	1955.53	2124.46	3.02	2.84	1.03	MWD-SDI-SYS
3125.00	91.14	64.76	1033.45	843.48	1983.60	2155.43	2.39	2.26	-0.77	MWD-SDI-SYS
3157.00	88.69	63.92	1033.50	857.33	2012.44	2187.38	8.09	-7.66	-2.62	MWD-SDI-SYS
3189.00	88.86	63.59	1034.18	871.48	2041.14	2219.31	1.16	0.53	-1.03	MWD-SDI-SYS
3220.00	88.56	63.66	1034.88	885.25	2068.90	2250.23	0.99	-0.97	0.23	MWD-SDI-SYS
3252.00	88.89	62.70	1035.59	899.68	2097.45	2282.14	3.17	1.03	-3.00	MWD-SDI-SYS
3283.00	88.32	62.76	1036.35	913.88	2125.00	2313.03	1.85	-1.84	0.19	MWD-SDI-SYS
3315.00	88.59	63.39	1037.21	928.37	2153.52	2344.92	2.14	0.84	1.97	MWD-SDI-SYS
3346.00	88.22	65.81	1038.07	941.66	2181.51	2375.87	7.89	-1.19	7.81	MWD-SDI-SYS
3378.00	88.76	66.86	1038.92	954.50	2210.81	2407.86	3.69	1.69	3.28	MWD-SDI-SYS
3410.00	91.61	68.37	1038.81	966.68	2240.39	2439.85	10.08	8.91	4.72	MWD-SDI-SYS
3443.00	91.95	68.34	1037.79	978.85	2271.05	2472.83	1.03	1.03	-0.09	MWD-SDI-SYS
3473.00	92.38	69.09	1036.66	989.73	2298.98	2502.80	2.88	1.43	2.50	MWD-SDI-SYS
3505.00	90.90	68.14	1035.74	1001.40	2328.77	2534.78	5.50	-4.62	-2.97	MWD-SDI-SYS
3535.00	90.88	67.70	1035.27	1012.67	2356.56	2564.77	1.47	-0.07	-1.47	MWD-SDI-SYS
3567.00	91.18	68.04	1034.70	1024.72	2386.20	2596.77	1.42	0.94	1.06	MWD-SDI-SYS
3598.00	91.48	67.75	1033.98	1036.39	2414.91	2627.76	1.35	0.97	-0.94	MWD-SDI-SYS
3630.00	89.39	66.67	1033.74	1048.78	2444.41	2659.75	7.35	-6.53	-3.37	MWD-SDI-SYS
3661.00	87.95	66.52	1034.46	1061.09	2472.85	2690.74	4.67	-4.65	-0.48	MWD-SDI-SYS



## Scientific Drilling Survey Report

<b>Company:</b> CNX Gas Company, LLC <b>Field:</b> MONONGALIA COUNTY, WV <b>Site:</b> SC-1 WELL LOCATION <b>Well:</b> ACCESS SC-1 <b>Wellpath:</b> SOUTH CENTER LEG 3	<b>Date:</b> 2/8/2008 <b>Co-ordinate(NE) Reference:</b> <b>Vertical (TVD) Reference:</b> <b>Section (VS) Reference:</b> <b>Survey Calculation Method:</b>	<b>Time:</b> 09:34:26 <b>Well:</b> ACCESS SC-1, Grid North <b>GL:</b> 1197.04 + 8-1205.0 <b>Well (0.00N,0.00E,67.39Azi)</b> <b>Minimum Curvature</b>	<b>Page:</b> 3 <b>Db:</b> Sybase
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**Survey: Survey #1**

MD ft	Incl deg	Azmi deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Bulid deg/100ft	Turn deg/100ft	Tool/Comment
3693.00	87.58	66.87	1035.70	1073.74	2502.22	2722.72	1.59	-1.16	1.09	MWD-SDI-SYS
3724.00	88.86	66.99	1036.67	1085.88	2530.73	2753.70	4.15	4.13	0.39	MWD-SDI-SYS
3756.00	91.65	67.58	1036.52	1098.24	2560.24	2785.69	8.91	8.72	1.84	MWD-SDI-SYS
3787.00	91.51	69.00	1035.67	1109.70	2589.03	2816.68	4.60	-0.45	4.58	MWD-SDI-SYS
3819.00	90.20	69.34	1035.19	1121.08	2618.94	2848.66	4.23	-4.09	1.06	MWD-SDI-SYS
3851.00	90.00	68.82	1035.14	1132.50	2648.83	2880.64	1.74	-0.62	-1.62	MWD-SDI-SYS
3882.00	89.33	69.15	1035.32	1143.62	2677.76	2911.63	2.41	-2.16	1.06	MWD-SDI-SYS
3914.00	89.33	69.27	1035.69	1154.98	2707.68	2943.61	0.37	0.00	0.37	MWD-SDI-SYS
3945.00	90.47	68.42	1035.75	1166.17	2736.59	2974.60	4.59	3.68	-2.74	MWD-SDI-SYS
3977.00	89.80	68.35	1035.67	1177.95	2766.34	3006.80	2.11	-2.09	-0.22	MWD-SDI-SYS
4008.00	90.13	67.43	1035.69	1189.62	2795.06	3037.60	3.15	1.06	-2.97	MWD-SDI-SYS
4040.00	90.97	66.54	1035.38	1202.13	2824.51	3069.59	3.82	2.62	-2.78	MWD-SDI-SYS
4072.00	90.91	65.77	1034.86	1215.07	2853.77	3101.58	2.41	-0.19	-2.41	MWD-SDI-SYS
4103.00	90.54	65.59	1034.47	1227.83	2882.02	3132.56	1.33	-1.19	-0.58	MWD-SDI-SYS
4135.00	90.50	65.24	1034.17	1241.14	2911.12	3164.54	1.10	-0.12	-1.09	MWD-SDI-SYS
4166.00	89.33	66.00	1034.22	1253.94	2939.35	3195.53	4.50	-3.77	2.45	MWD-SDI-SYS
4198.00	88.22	65.93	1034.90	1266.97	2968.57	3227.51	3.48	-3.47	-0.22	MWD-SDI-SYS
4230.00	88.63	65.00	1035.78	1280.25	2997.87	3259.48	3.18	1.28	-2.91	MWD-SDI-SYS
4261.00	90.34	65.26	1036.06	1293.29	3025.79	3290.45	5.58	5.52	0.84	MWD-SDI-SYS
4293.00	92.08	65.18	1035.39	1306.70	3054.84	3322.42	5.44	5.44	-0.25	MWD-SDI-SYS
4324.00	92.79	66.46	1034.07	1319.38	3083.09	3353.38	4.72	2.29	4.13	MWD-SDI-SYS
4356.00	92.52	67.83	1032.59	1331.80	3112.55	3385.35	4.36	-0.84	4.29	MWD-SDI-SYS
4387.00	90.50	66.69	1031.77	1343.78	3141.13	3416.33	7.48	-6.52	-3.68	MWD-SDI-SYS
4419.00	88.72	66.14	1031.99	1356.58	3170.45	3448.33	5.82	-5.56	-1.72	MWD-SDI-SYS
4451.00	88.93	65.74	1033.20	1369.62	3199.65	3480.29	5.73	-5.59	-1.25	MWD-SDI-SYS
4482.00	88.42	66.44	1034.46	1382.17	3227.97	3511.26	5.31	4.81	2.26	MWD-SDI-SYS
4514.00	89.46	66.79	1035.05	1394.87	3257.33	3543.25	3.43	3.25	1.09	MWD-SDI-SYS
4545.00	88.62	67.71	1035.57	1406.85	3285.91	3574.24	4.02	-2.71	2.97	MWD-SDI-SYS
4577.00	88.22	68.17	1036.45	1418.87	3315.56	3606.23	1.90	-1.25	1.44	MWD-SDI-SYS
4616.00	87.73	68.73	1037.83	1433.19	3351.81	3645.20	1.91	-1.26	1.44	MWD-SDI-SYS



## Scientific Drilling Survey Report - Geographic

<b>Company:</b> CNX Gas Company, LLC <b>Field:</b> MONONGALIA COUNTY, WV <b>Site:</b> SC-1 WELL LOCATION <b>Well:</b> ACCESS SC-1 <b>Wellpath:</b> SOUTH CENTER LEG 3	<b>Date:</b> 2/8/2008 <b>Co-ordinate(NE) Reference:</b> <b>Vertical (TVD) Reference:</b> <b>Section (VS) Reference:</b> <b>Survey Calculation Method:</b>	<b>Time:</b> 09:36:26 <b>Well:</b> ACCESS SC-1, Grid North <b>GL 1197.04 + 8 1205.0</b> <b>Well (0.00N,0.00E,67.39Azi)</b> <b>Minimum Curvature:</b>	<b>Page:</b> 1 <b>Db:</b> Sybase								
<b>Field:</b> MONONGALIA COUNTY, WV Northern West Virginia and Pennsylvania Operations USA <b>Map System:</b> US State Plane Coordinate System 1927 <b>Geo Datum:</b> NAD27 (Clarke 1866) <b>Sys Datum:</b> Mean Sea Level											
<b>Map Zone:</b> West Virginia, Northern Zone <b>Coordinate System:</b> Well Centre <b>Geomagnetic Model:</b> Igrf2005											
<b>Site:</b> SC-1 WELL LOCATION Monongalia County, WV											
<b>Site Position:</b> From: Map Position Uncertainty: 0.00 ft Ground Level: 1197.04 ft		<b>Northing:</b> 423290.75 ft <b>Easting:</b> 1755390.73 ft <b>Latitude:</b> 39 39 32.147 N <b>Longitude:</b> 80 22 7.793 W <b>North Reference:</b> Grid <b>Grid Convergence:</b> -0.55 deg									
<b>Well:</b> ACCESS SC-1 <b>Slot Name:</b>											
<b>Well Position:</b> +N/-S 0.00 ft +E/-W 0.00 ft Position Uncertainty: 0.00 ft		<b>Northing:</b> 423290.75 ft <b>Easting:</b> 1755390.73 ft <b>Latitude:</b> 39 39 32.147 N <b>Longitude:</b> 80 22 7.793 W									
<b>Wellpath:</b> SOUTH CENTER LEG 3 <b>Drilled From:</b> NORTH LEG 1 <b>Tie-on Depth:</b> 1258.00 ft <b>Above System Datum:</b> Mean Sea Level <b>Declination:</b> -8.57 deg <b>Mag Dip Angle:</b> 67.67 deg <b>Direction:</b> deg											
<b>Current Datum:</b> GL 1197.04 + 8 <b>Magnetic Data:</b> 1/21/2008 <b>Field Strength:</b> 53204 nT <b>Vertical Section:</b> Depth From (TVD) ft 0.00		<b>Height:</b> 1205.04 ft +N/-S ft 0.00									
<b>Survey:</b> Survey #1 <b>Company:</b> SDI <b>Tool:</b> MWD-SDI-SYS, Scientific MWD Systematic		<b>Start Date:</b> 2/8/2008 <b>Engineer:</b> Carl Bakay <b>Tied-to:</b> User Defined									
<b>Survey:</b> Survey #1											
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg. Min. Sec		Longitude Deg. Min. Sec	
1258.00	86.64	68.95	1039.09	136.41	261.67	423427.16	1755652.40	39 39	33.520 N	80 22	4.464 W
1291.00	85.29	71.41	1041.42	147.57	292.63	423438.32	1755683.36	39 39	33.633 N	80 22	4.070 W
1323.00	84.65	75.94	1044.22	156.53	323.22	423447.28	1755713.95	39 39	33.725 N	80 22	3.680 W
1354.00	92.25	79.61	1045.06	163.08	353.47	423453.83	1755744.20	39 39	33.792 N	80 22	3.294 W
1386.00	93.36	80.92	1043.50	168.49	384.97	423459.24	1755775.70	39 39	33.849 N	80 22	2.892 W
1419.00	91.85	78.32	1042.00	174.43	417.40	423465.18	1755808.13	39 39	33.911 N	80 22	2.478 W
1450.00	90.37	77.04	1041.40	181.04	447.68	423471.79	1755838.41	39 39	33.979 N	80 22	2.092 W
1482.00	89.53	75.15	1041.42	188.73	478.74	423479.48	1755869.47	39 39	34.058 N	80 22	1.695 W
1513.00	89.06	70.62	1041.81	197.85	508.35	423488.60	1755899.08	39 39	34.151 N	80 22	1.318 W
1545.00	89.70	68.07	1042.15	209.14	538.29	423499.89	1755929.02	39 39	34.265 N	80 22	0.936 W
1577.00	90.87	67.83	1041.99	221.15	567.95	423511.90	1755958.68	39 39	34.387 N	80 22	0.559 W
1608.00	90.27	66.88	1041.68	233.08	596.56	423523.83	1755987.29	39 39	34.507 N	80 22	0.194 W
1640.00	88.48	65.58	1042.03	245.98	625.84	423536.73	1756016.57	39 39	34.638 N	80 21	59.822 W
1671.00	89.06	65.20	1042.70	258.89	654.02	423549.64	1756044.75	39 39	34.768 N	80 21	59.463 W
1703.00	90.64	64.71	1042.78	272.43	683.01	423563.18	1756073.74	39 39	34.904 N	80 21	59.094 W
1735.00	92.05	64.99	1042.03	286.03	711.97	423576.78	1756102.70	39 39	35.042 N	80 21	58.725 W
1766.00	92.16	63.91	1040.89	299.39	739.92	423590.14	1756130.65	39 39	35.176 N	80 21	58.370 W
1798.00	92.22	64.23	1039.67	313.37	768.67	423604.12	1756159.40	39 39	35.317 N	80 21	58.004 W
1830.00	91.75	64.00	1038.56	327.33	797.44	423618.08	1756188.17	39 39	35.458 N	80 21	57.637 W
1861.00	90.84	64.59	1037.86	340.78	825.37	423631.53	1756216.10	39 39	35.593 N	80 21	57.282 W
1893.00	89.93	64.52	1037.65	354.52	854.26	423645.27	1756244.99	39 39	35.732 N	80 21	56.914 W
1925.00	89.39	64.14	1037.84	368.39	883.11	423659.14	1756273.84	39 39	35.872 N	80 21	56.547 W
1956.00	91.65	65.49	1037.55	381.58	911.15	423672.33	1756301.88	39 39	36.005 N	80 21	56.190 W



## Scientific Drilling Survey Report - Geographic

<b>Company:</b> CNX Gas Company, LLC <b>Field:</b> MONONGALIA COUNTY, WV <b>Site:</b> SC-1 WELL LOCATION <b>Well:</b> ACCESS SC-1 <b>Wellpath:</b> SOUTH CENTER LEG 3	<b>Date:</b> 2/8/2008 <b>Co-ordinate(NF) Reference:</b> Well: ACCESS SC-1, Grid North <b>Vertical (TVD) Reference:</b> GL 1197.04 + 8 1205.0 <b>Section (VS) Reference:</b> Well(0.00N,0.00E,67.39Azi) <b>Survey Calculation Method:</b> Minimum Curvature
	<b>Time:</b> 09:36:26 <b>Page:</b> 2 <b>Db:</b> Sybase

Survey: Survey #1

MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	Map Northing ft	Map Easting ft	← Latitude →		← Longitude →					
								Deg	Min	Sec	Deg	Min	Sec		
1988.00	93.13	66.79	1036.22	394.51	940.39	423685.26	1758331.12	39	39	36.135	N	80	21	55.818	W
2019.00	90.81	67.21	1035.15	406.61	968.91	423697.36	1756359.64	39	39	36.258	N	80	21	55.455	W
2051.00	89.36	66.55	1035.11	419.18	998.34	423709.93	1756389.07	39	39	36.385	N	80	21	55.080	W
2082.00	89.53	67.30	1035.41	431.33	1026.86	423722.08	1756417.59	39	39	36.508	N	80	21	54.717	W
2114.00	91.17	67.64	1035.21	443.59	1056.41	423734.34	1756447.14	39	39	36.632	N	80	21	54.340	W
2146.00	92.79	69.23	1034.11	455.34	1086.15	423746.09	1756476.88	39	39	36.751	N	80	21	53.962	W
2177.00	91.31	70.52	1033.00	466.00	1115.24	423756.75	1756505.97	39	39	36.859	N	80	21	53.591	W
2209.00	91.08	71.46	1032.33	476.42	1145.49	423767.17	1756536.22	39	39	36.965	N	80	21	53.206	W
2240.00	91.14	73.27	1031.73	485.81	1175.02	423776.56	1756565.75	39	39	37.060	N	80	21	52.829	W
2272.00	90.84	71.64	1031.15	495.46	1205.53	423786.21	1756596.26	39	39	37.158	N	80	21	52.440	W
2304.00	89.90	67.70	1030.91	506.57	1235.53	423797.32	1756626.26	39	39	37.271	N	80	21	52.058	W
2335.00	87.85	66.21	1031.52	518.70	1264.05	423809.45	1756654.78	39	39	37.394	N	80	21	51.695	W
2368.00	87.48	64.92	1032.87	532.34	1294.07	423823.09	1756684.80	39	39	37.531	N	80	21	51.313	W
2400.00	88.76	66.09	1033.92	545.60	1323.17	423836.35	1756713.90	39	39	37.665	N	80	21	50.942	W
2431.00	89.63	66.87	1034.35	557.97	1351.59	423848.72	1756742.32	39	39	37.790	N	80	21	50.580	W
2462.00	90.47	67.88	1034.32	569.90	1380.20	423860.85	1756770.93	39	39	37.911	N	80	21	50.216	W
2493.00	91.04	68.28	1033.92	581.47	1408.96	423872.22	1756799.69	39	39	38.028	N	80	21	49.850	W
2525.00	90.47	66.87	1033.49	593.67	1438.54	423884.42	1756829.27	39	39	38.151	N	80	21	49.473	W
2557.00	90.77	66.05	1033.15	606.45	1467.87	423897.20	1756858.60	39	39	38.280	N	80	21	49.099	W
2588.00	90.17	64.92	1032.89	619.32	1496.08	423910.07	1756886.81	39	39	38.410	N	80	21	48.740	W
2620.00	89.70	64.01	1032.93	633.11	1524.95	423923.88	1756915.68	39	39	38.549	N	80	21	48.373	W
2651.00	88.25	63.46	1033.49	646.83	1552.74	423937.58	1756943.47	39	39	38.687	N	80	21	48.019	W
2683.00	89.46	64.19	1034.12	660.94	1581.46	423951.69	1756972.19	39	39	38.830	N	80	21	47.654	W
2715.00	90.00	64.73	1034.28	674.73	1610.33	423965.48	1757001.06	39	39	38.969	N	80	21	47.286	W
2746.00	90.67	66.33	1034.09	687.57	1638.54	423978.32	1757029.27	39	39	39.098	N	80	21	46.927	W
2778.00	89.03	67.69	1034.18	700.07	1668.00	423990.82	1757058.73	39	39	39.225	N	80	21	46.552	W
2809.00	89.83	67.32	1034.49	711.93	1696.64	424002.68	1757087.37	39	39	39.345	N	80	21	46.187	W
2841.00	92.18	67.48	1033.93	724.23	1726.18	424014.98	1757116.91	39	39	39.469	N	80	21	45.811	W
2873.00	92.63	67.33	1032.58	736.51	1755.69	424027.26	1757146.42	39	39	39.593	N	80	21	45.435	W
2904.00	92.75	67.30	1031.13	748.45	1784.26	424039.20	1757174.99	39	39	39.714	N	80	21	45.071	W
2936.00	92.15	64.53	1029.76	761.50	1813.45	424052.25	1757204.18	39	39	39.846	N	80	21	44.700	W
2967.00	88.32	64.15	1029.63	774.92	1841.39	424065.67	1757232.12	39	39	39.981	N	80	21	44.344	W
2999.00	85.55	63.59	1031.34	788.99	1870.07	424079.74	1757260.80	39	39	40.123	N	80	21	43.979	W
3031.00	87.89	63.61	1033.17	803.20	1898.68	424093.95	1757289.41	39	39	40.266	N	80	21	43.615	W
3062.00	89.53	64.67	1033.87	816.71	1926.57	424107.46	1757317.30	39	39	40.402	N	80	21	43.260	W
3094.00	90.44	65.00	1033.88	830.32	1955.53	424121.07	1757346.26	39	39	40.539	N	80	21	42.891	W
3125.00	91.14	64.76	1033.45	843.48	1983.60	424134.23	1757374.33	39	39	40.672	N	80	21	42.534	W
3157.00	88.69	63.92	1033.50	857.33	2012.44	424148.08	1757403.17	39	39	40.812	N	80	21	42.167	W
3189.00	88.86	63.59	1034.18	871.48	2041.14	424162.23	1757431.87	39	39	40.954	N	80	21	41.802	W
3220.00	88.56	63.66	1034.88	885.25	2069.90	424176.00	1757459.63	39	39	41.093	N	80	21	41.449	W
3252.00	88.89	62.70	1035.59	899.68	2097.45	424190.43	1757488.18	39	39	41.238	N	80	21	41.085	W
3283.00	88.32	62.76	1036.35	913.88	2125.00	424204.63	1757515.73	39	39	41.381	N	80	21	40.735	W
3315.00	88.59	63.39	1037.21	928.37	2153.52	424219.12	1757544.25	39	39	41.527	N	80	21	40.372	W
3346.00	88.22	65.81	1038.07	941.66	2181.51	424232.41	1757572.24	39	39	41.661	N	80	21	40.016	W
3378.00	88.76	66.86	1038.92	954.50	2210.81	424245.25	1757601.54	39	39	41.791	N	80	21	39.643	W
3410.00	91.61	68.37	1038.81	966.68	2240.39	424257.43	1757631.12	39	39	41.914	N	80	21	39.266	W
3443.00	91.95	68.34	1037.79	978.85	2271.05	424269.60	1757661.78	39	39	42.037	N	80	21	38.875	W
3473.00	92.38	69.09	1036.66	989.73	2298.98	424280.48	1757689.71	39	39	42.147	N	80	21	38.519	W
3505.00	90.90	68.14	1035.74	1001.40	2328.77	424292.15	1757719.50	39	39	42.265	N	80	21	38.140	W
3535.00	90.88	67.70	1035.27	1012.67	2356.56	424303.42	1757747.29	39	39	42.379	N	80	21	37.786	W
3567.00	91.18	68.04	1034.70	1024.72	2386.20	424315.47	1757776.93	39	39	42.501	N	80	21	37.409	W
3598.00	91.48	67.75	1033.98	1036.39	2414.91	424327.14	1757805.64	39	39	42.619	N	80	21	37.043	W



## Scientific Drilling Survey Report - Geographic

<b>Company:</b> CNX Gas Company, LLC <b>Field:</b> MONONGALIA COUNTY, WV <b>Site:</b> SC-1 WELL LOCATION <b>Well:</b> ACCESS SC-1 <b>Wellpath:</b> SOUTH CENTER LEG 3	<b>Date:</b> 2/8/2008 <b>Co-ordinate(NE) Reference:</b> <b>Vertical (TVD) Reference:</b> <b>Section (VS) Reference:</b> <b>Survey Calculation Method:</b>	<b>Time:</b> 09:36:26 <b>Well:</b> ACCESS SC-1, Grid North GL 1197.04 + 8 1205.0 Well (0.00N,0.00E,67.39Azi) <b>Minimum Curvature</b>	<b>Page:</b> 3 <b>Db:</b> Sybase
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Survey: Survey #1

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude →		← Longitude →					
								Deg	Min	Sec	Deg	Min	Sec		
3630.00	89.39	66.67	1033.74	1048.78	2444.41	424339.53	1757835.14	39	39	42.745	N	80	21	38.667	W
3661.00	87.95	66.52	1034.46	1061.09	2472.85	424351.84	1757663.58	39	39	42.869	N	80	21	36.305	W
3693.00	87.58	66.87	1035.70	1073.74	2502.22	424364.49	1757892.95	39	39	42.997	N	80	21	35.931	W
3724.00	88.88	66.99	1036.67	1085.88	2530.73	424376.63	1757921.46	39	39	43.119	N	80	21	35.568	W
3756.00	91.65	67.58	1036.52	1098.24	2560.24	424388.99	1757950.97	39	39	43.244	N	80	21	35.192	W
3787.00	91.51	69.00	1035.67	1109.70	2589.03	424400.45	1757979.76	39	39	43.360	N	80	21	34.825	W
3819.00	90.20	69.34	1035.19	1121.08	2618.94	424411.83	1758009.87	39	39	43.476	N	80	21	34.444	W
3851.00	90.00	68.82	1035.14	1132.50	2648.83	424423.25	1758039.56	39	39	43.591	N	80	21	34.064	W
3882.00	89.33	69.15	1035.32	1143.62	2677.76	424434.37	1758068.49	39	39	43.704	N	80	21	33.695	W
3914.00	89.33	69.27	1035.69	1154.98	2707.68	424445.73	1758098.41	39	39	43.819	N	80	21	33.314	W
3945.00	90.47	68.42	1035.75	1166.17	2736.59	424456.92	1758127.32	39	39	43.932	N	80	21	32.946	W
3977.00	89.80	68.35	1035.67	1177.95	2766.34	424468.70	1758157.07	39	39	44.052	N	80	21	32.567	W
4008.00	90.13	67.43	1035.69	1189.62	2795.06	424480.37	1758185.79	39	39	44.170	N	80	21	32.201	W
4040.00	90.97	66.54	1035.38	1202.13	2824.51	424492.88	1758215.24	39	39	44.286	N	80	21	31.826	W
4072.00	90.91	65.77	1034.86	1215.07	2853.77	424505.82	1758244.50	39	39	44.427	N	80	21	31.453	W
4103.00	90.54	65.59	1034.47	1227.83	2882.02	424518.58	1758272.75	39	39	44.556	N	80	21	31.093	W
4135.00	90.50	65.24	1034.17	1241.14	2911.12	424531.89	1758301.85	39	39	44.690	N	80	21	30.723	W
4166.00	89.33	66.00	1034.22	1253.94	2939.35	424544.69	1758330.08	39	39	44.819	N	80	21	30.384	W
4198.00	88.22	65.93	1034.90	1266.97	2968.57	424557.72	1758359.30	39	39	44.951	N	80	21	29.992	W
4230.00	88.63	65.00	1035.78	1280.25	2997.67	424571.00	1758388.40	39	39	45.085	N	80	21	29.621	W
4261.00	90.34	65.26	1036.06	1293.29	3025.79	424584.04	1758416.52	39	39	45.216	N	80	21	29.263	W
4293.00	92.08	65.18	1035.39	1306.70	3054.84	424597.45	1758445.57	39	39	45.351	N	80	21	28.893	W
4324.00	92.79	66.46	1034.07	1319.38	3083.09	424610.13	1758473.82	39	39	45.479	N	80	21	28.534	W
4356.00	92.52	67.83	1032.59	1331.80	3112.55	424622.55	1758503.28	39	39	45.605	N	80	21	28.158	W
4387.00	90.50	66.69	1031.77	1343.78	3141.13	424634.53	1758531.86	39	39	45.726	N	80	21	27.795	W
4419.00	88.72	66.14	1031.99	1356.58	3170.45	424647.33	1758561.18	39	39	45.855	N	80	21	27.421	W
4451.00	86.93	65.74	1033.20	1369.62	3199.65	424660.37	1758590.38	39	39	45.987	N	80	21	27.049	W
4482.00	88.42	66.44	1034.46	1382.17	3227.97	424672.92	1758618.70	39	39	46.114	N	80	21	26.689	W
4514.00	89.46	66.79	1035.05	1394.87	3257.33	424685.62	1758648.06	39	39	46.242	N	80	21	26.315	W
4545.00	88.62	67.71	1035.57	1406.85	3285.91	424697.60	1758676.64	39	39	46.363	N	80	21	25.951	W
4577.00	88.22	68.17	1036.45	1418.87	3315.58	424709.62	1758706.29	39	39	46.485	N	80	21	25.573	W
4616.00	87.73	68.73	1037.83	1433.19	3351.81	424723.94	1758742.54	39	39	46.629	N	80	21	25.111	W



**CNX Gas Company, LLC**

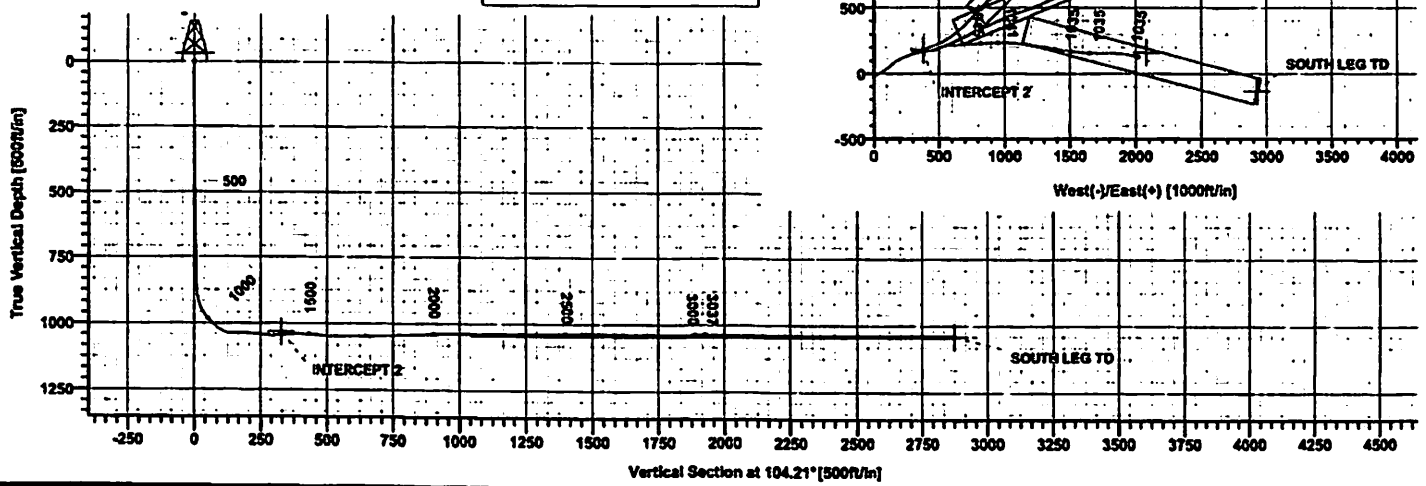
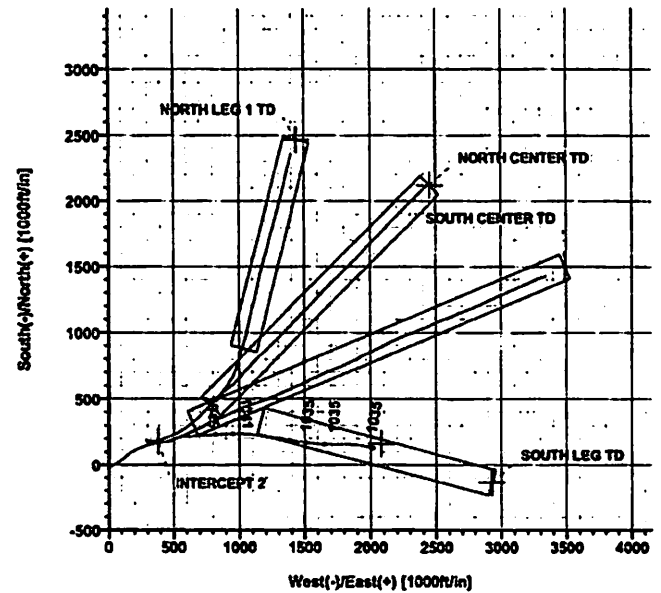
Field: MONONGALIA COUNTY, WV  
 Site: SC-1 WELL LOCATION  
 Well: ACCESS SC-1  
 Wellpath: SOUTH LEG 4



Name	North	East	Depth	Station	Shape	
INTERCEPT 2	1032.50	181.02	388.12	423471.77	1758778.85	Circle (Radius: 1)
NORTH CENTER TD	1042.00	2118.84	2458.58	425409.58	1757847.31	Rectangle (2360x200)
NORTH LEG 1 TD	1043.00	2468.09	1441.27	428758.84	1764832.09	Rectangle (1840x200)
SOUTH CENTER TD	1042.00	1530.00	3491.77	424780.75	1758382.58	Rectangle (3038x200)
SOUTH LEG TD	1042.00	-135.84	2525.15	423154.91	1758318.56	Rectangle (1825x200)

**SITE DETAILS**  
 SC-1 WELL LOCATION  
 MONONGALIA COUNTY, WV  
 Site Centre Northing: 423280.75  
 Easting: 1758390.73  
 Ground Level: 1187.84  
 Positional Uncertainty: 0.00  
 Convergence: -9.55

Plot Date: 02/02/2022  
 By: Carl Bakay  
 Scientific Drilling, Inc.  
 200-476-7323  
 carl.bakay@scientificdrilling.com







# Scientific Drilling Survey Report



Company: CNX Gas Company, LLC		Date: 2/12/2008	Time: 20:05:39	Page: 1
Field: MONONGALIA COUNTY, WV		Co-ordinate(NE) Reference:	Well: ACCESS SC-1; Grid North	
Site: SC-1 WELL LOCATION		Vertical (TVD) Reference:	GL: 1197.04 + 8 1205.0	
Well: ACCESS SC-1		Section (VS) Reference:	Well (0.00N,0.00E;104.21Azi)	
Wellpath: SOUTH LEG 4		Survey Calculation Method:	Minimum Curvature	Db: Sybase.

Field: MONONGALIA COUNTY, WV Northern West Virginia and Pennsylvania Operations USA		
Map System: US State Plane Coordinate System 1927	Map Zone:	West Virginia, Northern Zone
Geo Datum: NAD27 (Clarke 1886)	Coordinate System:	Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model:	igr2005

Site: SC-1 WELL LOCATION Monongalia County, WV				
Site Position:	Northing:	423290.75 ft	Latitude:	39 39 32.147 N
From: Map	Easting:	1755390.73 ft	Longitude:	80 22 7.793 W
Position Uncertainty: 0.00 ft			North Reference:	Grid
Ground Level: 1197.04 ft			Grid Convergence:	-0.55 deg

Well: ACCESS SC-1				
Slot Name:				
Well Position:	+N-S	0.00 ft	Northing:	423290.75 ft
	+E-W	0.00 ft	Easting:	1755390.73 ft
Position Uncertainty:		0.00 ft	Latitude:	39 39 32.147 N
			Longitude:	80 22 7.793 W

Wellpath: SOUTH LEG 4				
Current Datum:	GL 1197.04 + 8	Height	1205.04 ft	Drilled From:
Magnetic Data:	1/21/2008			Tie-on Depth:
Field Strength:	53204 nT			Above System Datum:
Vertical Section:	Depth From (TVD)	+N-S		Declination:
	ft	ft		Mag Dip Angle:
				+E-W
				ft
				Direction
				deg
	0.00	0.00	0.00	104.21

Survey: Survey #1		Start Date: 2/8/2008	
Company: SDI		Engineer: Carl Bakay	
Tool: MWD-SDI-SYS, Scientific MWD Systematic		Tied-to: User Defined	

Survey: Survey #1										
MD	Incl	Azim	TVD	+N-S	+E-W	VS	DLS	Build	Turn	Tool/Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	
1258.00	86.64	68.95	1038.09	136.41	261.67	220.18	0.00	0.00	0.00	MWD-SDI-SYS
1291.00	85.29	71.41	1041.42	147.57	262.63	247.45	8.49	-4.09	7.45	MWD-SDI-SYS
1323.00	84.65	75.94	1044.22	156.53	323.22	274.90	14.24	-2.00	14.16	MWD-SDI-SYS
1354.00	92.25	79.61	1045.06	163.08	353.47	302.63	27.22	24.52	11.84	MWD-SDI-SYS
1386.00	93.36	80.92	1043.50	168.49	384.97	331.83	5.36	3.47	4.09	MWD-SDI-SYS
1419.00	91.85	78.32	1042.00	174.43	417.40	361.81	9.10	-4.58	-7.88	MWD-SDI-SYS
1450.00	90.37	77.04	1041.40	181.04	447.88	389.54	6.31	-4.77	-4.13	MWD-SDI-SYS
1482.00	89.53	75.15	1041.42	188.73	478.74	417.76	6.46	-2.62	-5.91	MWD-SDI-SYS
1513.00	89.06	70.62	1041.81	197.85	508.35	444.23	14.69	-1.52	-14.61	MWD-SDI-SYS
1529.00	86.38	72.95	1042.44	202.85	523.54	457.72	22.19	-16.75	14.56	MWD-SDI-SYS
1545.00	84.83	75.41	1043.67	207.20	538.88	471.53	18.13	-9.69	15.37	MWD-SDI-SYS
1577.00	86.00	81.05	1046.23	213.70	570.10	500.20	17.94	3.66	17.62	MWD-SDI-SYS
1607.00	89.50	85.50	1047.41	217.21	599.86	528.18	18.86	11.67	14.83	MWD-SDI-SYS
1639.00	90.91	86.75	1047.29	219.37	631.78	558.60	5.89	4.41	3.91	MWD-SDI-SYS
1670.00	90.03	86.64	1047.04	221.16	662.73	588.16	2.66	-2.84	-0.35	MWD-SDI-SYS
1702.00	88.32	86.66	1047.50	222.97	694.67	618.68	5.39	-5.34	0.69	MWD-SDI-SYS
1734.00	88.59	86.45	1048.36	224.84	726.61	649.18	1.53	0.84	-1.28	MWD-SDI-SYS
1765.00	92.90	85.49	1047.96	227.01	757.52	678.61	14.24	13.90	-3.10	MWD-SDI-SYS
1797.00	92.69	85.69	1046.34	229.47	789.38	708.90	0.62	-0.03	0.62	MWD-SDI-SYS
1829.00	90.81	87.07	1045.31	231.49	821.30	739.35	7.80	-6.50	4.31	MWD-SDI-SYS
1860.00	91.54	88.47	1044.67	232.70	852.27	769.07	5.09	2.35	4.52	MWD-SDI-SYS
1892.00	92.48	88.98	1043.55	233.41	884.24	799.89	3.34	2.94	1.59	MWD-SDI-SYS
1923.00	92.59	85.77	1042.18	234.83	915.18	829.53	10.35	0.35	-10.35	MWD-SDI-SYS
1955.00	92.22	86.24	1040.84	237.05	947.07	859.90	1.87	-1.16	1.47	MWD-SDI-SYS



**Scientific Drilling  
Survey Report**



<b>Company:</b> CNX Gas Company, LLC <b>Field:</b> MONONGALIA COUNTY, WV <b>Site:</b> SC-1 WELL LOCATION <b>Well:</b> ACCESS SC-1 <b>Wellpath:</b> SOUTH LEG 4	<b>Date:</b> 2/12/2008 <b>Time:</b> 20:05:39 <b>Page:</b> 2 <b>Co-ordinate(NE) Reference:</b> Well: ACCESS SC-1; Grid North <b>Vertical (TVD) Reference:</b> GL: 1197.04 + 8 1205.0 <b>Section (VS) Reference:</b> Well (0.00N,0.00E,104.21Azi) <b>Survey Calculation Method:</b> Minimum Curvature <b>Db:</b> Sybase
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**Survey: Survey #1**

MD ft.	Incl deg	Azlm deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1987.00	91.98	87.60	1039.66	238.77	979.00	890.43	4.31	-0.75	4.25	MWD-SDI-SYS
2018.00	92.08	90.66	1038.57	239.24	1009.97	920.34	9.87	0.32	9.87	MWD-SDI-SYS
2050.00	90.94	93.84	1037.72	237.99	1041.83	951.63	10.55	-3.56	9.94	MWD-SDI-SYS
2082.00	90.81	98.08	1037.29	235.22	1073.81	983.21	7.07	-1.03	7.00	MWD-SDI-SYS
2114.00	90.10	98.34	1037.09	230.93	1105.51	1015.00	10.31	-1.59	10.19	MWD-SDI-SYS
2146.00	88.99	100.06	1037.34	225.54	1137.06	1048.90	4.13	-3.47	2.25	MWD-SDI-SYS
2177.00	89.19	98.89	1037.84	220.43	1167.63	1077.79	3.83	0.65	-3.77	MWD-SDI-SYS
2209.00	90.37	97.75	1037.96	215.80	1199.29	1109.62	5.13	3.69	-3.56	MWD-SDI-SYS
2240.00	90.50	95.60	1037.72	212.12	1230.07	1140.36	5.98	0.42	-5.97	MWD-SDI-SYS
2272.00	90.44	94.91	1037.46	209.11	1261.92	1171.98	3.10	-0.19	-3.09	MWD-SDI-SYS
2304.00	91.68	96.52	1036.87	205.92	1293.78	1203.62	6.35	3.87	5.03	MWD-SDI-SYS
2335.00	90.44	99.79	1036.30	201.52	1324.43	1234.44	11.28	-4.00	10.55	MWD-SDI-SYS
2367.00	88.93	100.23	1036.47	195.96	1355.95	1266.35	4.91	-4.72	1.37	MWD-SDI-SYS
2398.00	89.53	99.49	1036.89	190.65	1388.49	1297.26	3.07	1.94	-2.39	MWD-SDI-SYS
2430.00	90.64	99.90	1036.84	185.27	1418.03	1329.16	3.70	3.47	1.28	MWD-SDI-SYS
2461.00	90.40	99.56	1036.56	180.03	1448.58	1360.07	1.34	-0.77	-1.10	MWD-SDI-SYS
2492.00	90.91	97.10	1036.21	175.54	1479.25	1390.90	8.10	1.65	-7.94	MWD-SDI-SYS
2524.00	91.64	97.32	1035.49	171.52	1510.99	1422.65	2.38	2.28	0.69	MWD-SDI-SYS
2555.00	91.68	98.97	1034.60	167.67	1541.73	1453.40	1.14	0.13	-1.13	MWD-SDI-SYS
2587.00	90.20	98.44	1034.07	163.93	1573.51	1485.12	4.91	-4.62	-1.68	MWD-SDI-SYS
2619.00	89.90	94.18	1034.04	160.97	1605.37	1516.74	7.12	-0.94	-7.06	MWD-SDI-SYS
2650.00	88.22	93.49	1034.55	158.90	1636.30	1547.22	5.86	-5.42	-2.23	MWD-SDI-SYS
2682.00	88.16	90.71	1035.56	157.72	1668.25	1578.49	8.69	-0.19	-8.69	MWD-SDI-SYS
2713.00	90.00	90.11	1036.06	157.50	1699.25	1608.59	6.24	5.94	-1.94	MWD-SDI-SYS
2745.00	90.10	88.63	1036.03	157.85	1731.25	1639.52	4.64	0.31	-4.62	MWD-SDI-SYS
2777.00	88.72	89.47	1036.36	158.39	1763.24	1670.41	5.05	-4.31	2.62	MWD-SDI-SYS
2808.00	88.36	90.58	1037.15	158.37	1794.23	1700.45	3.76	-1.16	3.58	MWD-SDI-SYS
2840.00	88.19	92.04	1038.12	157.64	1826.20	1731.63	4.59	-0.53	4.56	MWD-SDI-SYS
2872.00	90.57	92.01	1038.46	158.51	1858.18	1762.90	7.44	7.44	-0.09	MWD-SDI-SYS
2903.00	90.54	95.42	1038.16	154.50	1889.11	1793.38	11.00	-0.10	11.00	MWD-SDI-SYS
2935.00	90.88	88.44	1037.76	150.64	1920.87	1825.12	9.50	1.06	9.44	MWD-SDI-SYS
2966.00	91.65	100.03	1037.08	145.67	1951.46	1855.99	5.70	2.48	5.13	MWD-SDI-SYS
2998.00	93.33	101.10	1035.69	139.81	1982.88	1887.89	6.22	5.25	3.34	MWD-SDI-SYS
3037.00	90.00	101.10	1034.56	132.30	2021.13	1926.81	8.54	-8.54	0.00	MWD-SDI-SYS



**Scientific Drilling**  
Survey Report - Geographic



<b>Company:</b> CNX Gas Company, LLC		<b>Date:</b> 2/12/2008		<b>Time:</b> 20:09:17		<b>Page:</b> 1	
<b>Field:</b> MONONGALIA COUNTY, WV		<b>Co-ordinate(NE) Reference:</b> Well: ACCESS SC-1, Grid North		<b>Vertical (TVD) Reference:</b> GL:1197.04 + 8 1205.0			
<b>Site:</b> SC-1 WELL LOCATION		<b>Section (VS) Reference:</b> Well (0.00N,0.00E,104.21Azi)		<b>Survey Calculation Method:</b> Minimum Curvature		<b>Db:</b> Sybase	
<b>Well:</b> ACCESS SC-1							
<b>Wellpath:</b> SOUTH LEG 4							

<b>Field:</b> MONONGALIA COUNTY, WV Northern West Virginia and Pennsylvania Operations USA			
<b>Map System:</b> US State Plane Coordinate System 1927		<b>Map Zone:</b> West Virginia, Northern Zone	
<b>Geo Datum:</b> NAD27 (Clarke 1886)		<b>Coordinate System:</b> Well Centre	
<b>Sys Datum:</b> Mean Sea Level		<b>Geomagnetic Model:</b> igr2005	

<b>Site:</b> SC-1 WELL LOCATION			
Monongalia County, WV			
<b>Site Position:</b>	<b>Northing:</b> 423290.75 ft	<b>Latitude:</b> 39 39 32.147 N	
<b>From:</b> Map	<b>Easting:</b> 1755390.73 ft	<b>Longitude:</b> 80 22 7.793 W	
<b>Position Uncertainty:</b> 0.00 ft		<b>North Reference:</b> Grid	
<b>Ground Level:</b> 1197.04 ft		<b>Grid Convergence:</b> -0.55 deg	

<b>Well:</b> ACCESS SC-1		<b>Slot Name:</b>	
<b>Well Position:</b>	<b>+N/-S</b> 0.00 ft	<b>Northing:</b> 423290.75 ft	<b>Latitude:</b> 39 39 32.147 N
	<b>+E/-W</b> 0.00 ft	<b>Easting:</b> 1755390.73 ft	<b>Longitude:</b> 80 22 7.793 W
<b>Position Uncertainty:</b> 0.00 ft			

<b>Wellpath:</b> SOUTH LEG 4		<b>Drilled From:</b> NORTH LEG 1	
<b>Current Datum:</b> GL 1197.04 + 8	<b>Height</b> 1205.04 ft	<b>Tie-on Depth:</b> 1258.00 ft	
<b>Magnetic Data:</b> 1/21/2008		<b>Above System Datum:</b> Mean Sea Level	
<b>Field Strength:</b> 53204 nT		<b>Declination:</b> -8.57 deg	
<b>Vertical Section:</b> Depth From (TVD)	<b>+N/-S</b> ft	<b>Mag Dip Angle:</b> 67.67 deg	
		<b>+E/-W</b> ft	
		<b>Direction</b> deg	
	0.00	0.00	104.21

<b>Survey:</b> Survey #1	<b>Start Date:</b> 2/8/2008
<b>Company:</b> SDI	<b>Engineer:</b> Carl Bakay
<b>Tool:</b> MWD-SDI-SYS,Scientific MWD Systematic	<b>Tied-to:</b> User Defined

<b>Survey:</b> Survey #1															
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude →		← Longitude →					
								Deg	Min	Sec	Deg	Min	Sec		
1258.00	88.64	68.95	1039.09	138.41	261.67	423427.18	1755652.40	39	39	33.520	N	80	22	4.464	W
1291.00	85.29	71.41	1041.42	147.57	292.63	423438.32	1755683.38	39	39	33.633	N	80	22	4.070	W
1323.00	84.65	75.94	1044.22	156.53	323.22	423447.28	1755713.85	39	39	33.725	N	80	22	3.680	W
1354.00	92.25	79.61	1045.06	163.08	353.47	423453.83	1755744.20	39	39	33.792	N	80	22	3.294	W
1386.00	93.36	80.92	1043.50	168.49	384.97	423459.24	1755775.70	39	39	33.849	N	80	22	2.892	W
1419.00	91.85	78.32	1042.00	174.43	417.40	423465.18	1755808.13	39	39	33.911	N	80	22	2.478	W
1450.00	90.37	77.04	1041.40	181.04	447.68	423471.79	1755838.41	39	39	33.979	N	80	22	2.092	W
1482.00	89.53	75.15	1041.42	188.73	478.74	423479.48	1755869.47	39	39	34.058	N	80	22	1.695	W
1513.00	89.06	70.62	1041.81	197.85	508.35	423488.60	1755899.08	39	39	34.151	N	80	22	1.318	W
1529.00	86.38	72.95	1042.44	202.85	523.54	423493.80	1755914.27	39	39	34.202	N	80	22	1.124	W
1545.00	84.83	75.41	1043.67	207.20	538.88	423497.95	1755929.61	39	39	34.248	N	80	22	0.929	W
1577.00	86.00	81.05	1046.23	213.70	570.10	423504.45	1755960.83	39	39	34.313	N	80	22	0.530	W
1607.00	89.50	85.50	1047.41	217.21	599.88	423507.86	1755990.59	39	39	34.351	N	80	22	0.150	W
1639.00	90.91	86.75	1047.29	219.37	631.78	423510.12	1756022.51	39	39	34.375	N	80	21	59.742	W
1670.00	90.03	86.64	1047.04	221.16	662.73	423511.91	1756053.46	39	39	34.398	N	80	21	59.347	W
1702.00	88.32	86.86	1047.50	222.97	694.67	423513.72	1756085.40	39	39	34.417	N	80	21	58.939	W
1734.00	88.59	86.45	1048.36	224.84	726.61	423515.59	1756117.34	39	39	34.438	N	80	21	58.531	W
1765.00	92.90	85.49	1047.96	227.01	757.52	423517.78	1756148.25	39	39	34.463	N	80	21	58.136	W
1797.00	92.89	85.89	1046.34	229.47	789.38	423520.22	1756180.11	39	39	34.490	N	80	21	57.728	W
1829.00	90.81	87.07	1045.31	231.49	821.30	423522.24	1756212.03	39	39	34.513	N	80	21	57.321	W
1860.00	91.54	88.47	1044.67	232.70	852.27	423523.45	1756243.00	39	39	34.528	N	80	21	56.925	W
1892.00	92.48	88.98	1043.55	233.41	884.24	423524.16	1756274.97	39	39	34.538	N	80	21	56.516	W
1923.00	92.59	85.77	1042.18	234.83	915.18	423525.58	1756305.91	39	39	34.555	N	80	21	56.121	W



**Scientific Drilling**  
Survey Report - Geographic



Company: CNX Gas Company, LLC	Date: 2/12/2008	Time: 20:09:17	Page: 2
Field: MONONGALIA COUNTY, WV	Co-ordinate(NE) Reference:	Well: ACCESS SC-1, Grid North	
Site: SC-1 WELL LOCATION	Vertical (TVD) Reference:	GL: 1197.04 + 8 1205.0	
Well: ACCESS SC-1	Section (VS) Reference:	Well (0.00N,0.00E,104.21Azi)	
Wellpath: SOUTH LEG 4	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: Survey #1

MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	Map Northing ft	Map Easting ft	← Latitude →		← Longitude →					
								Deg	Min	Sec	Deg	Min	Sec		
1955.00	92.22	88.24	1040.84	237.05	947.07	423527.80	1756337.80	39	39	34.580	N	80	21	55.713	W
1987.00	91.98	87.80	1039.66	238.77	979.00	423529.52	1756389.73	39	39	34.600	N	80	21	55.305	W
2018.00	92.08	80.66	1038.57	239.24	1009.97	423529.99	1756400.70	39	39	34.608	N	80	21	54.909	W
2050.00	90.94	93.84	1037.72	237.99	1041.93	423528.74	1756432.66	39	39	34.598	N	80	21	54.500	W
2082.00	90.61	96.08	1037.29	235.22	1073.81	423525.97	1756464.54	39	39	34.574	N	80	21	54.092	W
2114.00	90.10	99.34	1037.09	230.93	1105.51	423521.68	1756496.24	39	39	34.534	N	80	21	53.686	W
2146.00	88.99	100.06	1037.34	225.54	1137.06	423516.29	1756527.79	39	39	34.484	N	80	21	53.283	W
2177.00	89.19	98.89	1037.84	220.43	1167.83	423511.18	1756558.36	39	39	34.437	N	80	21	52.891	W
2209.00	90.37	97.75	1037.96	215.80	1199.29	423506.55	1756590.02	39	39	34.394	N	80	21	52.486	W
2240.00	90.50	95.90	1037.72	212.12	1230.07	423502.87	1756620.80	39	39	34.360	N	80	21	52.092	W
2272.00	90.44	94.91	1037.46	209.11	1261.92	423499.86	1756652.65	39	39	34.334	N	80	21	51.684	W
2304.00	91.68	96.52	1038.87	205.92	1293.76	423496.67	1756684.49	39	39	34.305	N	80	21	51.276	W
2335.00	90.44	99.79	1036.30	201.52	1324.43	423492.27	1756715.16	39	39	34.265	N	80	21	50.884	W
2367.00	88.93	100.23	1036.47	195.98	1355.95	423488.71	1756746.68	39	39	34.213	N	80	21	50.480	W
2398.00	89.53	99.49	1036.89	190.65	1386.49	423481.40	1756777.22	39	39	34.163	N	80	21	50.089	W
2430.00	90.64	99.90	1036.84	185.27	1418.03	423476.02	1756808.76	39	39	34.113	N	80	21	49.685	W
2461.00	90.40	99.56	1036.56	180.03	1448.58	423470.78	1756839.31	39	39	34.064	N	80	21	49.294	W
2492.00	90.91	97.10	1036.21	175.54	1479.25	423466.29	1756869.98	39	39	34.023	N	80	21	48.901	W
2524.00	91.64	97.32	1035.49	171.52	1510.99	423462.27	1756901.72	39	39	33.986	N	80	21	48.495	W
2555.00	91.68	96.97	1034.80	167.67	1541.73	423458.42	1756932.46	39	39	33.951	N	80	21	48.101	W
2587.00	90.20	96.44	1034.07	163.93	1573.51	423454.68	1756964.24	39	39	33.917	N	80	21	47.694	W
2619.00	89.80	94.18	1034.04	160.97	1605.37	423451.72	1756996.10	39	39	33.891	N	80	21	47.287	W
2650.00	88.22	93.49	1034.55	158.90	1636.30	423449.65	1757027.03	39	39	33.873	N	80	21	46.891	W
2682.00	88.16	90.71	1035.56	157.72	1668.25	423448.47	1757058.88	39	39	33.865	N	80	21	46.482	W
2713.00	90.00	90.11	1036.06	157.50	1699.25	423448.25	1757089.98	39	39	33.865	N	80	21	46.086	W
2745.00	90.10	88.63	1038.03	157.85	1731.25	423448.60	1757121.98	39	39	33.872	N	80	21	45.677	W
2777.00	88.72	89.47	1036.38	158.39	1763.24	423449.14	1757153.97	39	39	33.880	N	80	21	45.268	W
2808.00	88.36	90.58	1037.15	158.37	1794.23	423449.12	1757184.96	39	39	33.883	N	80	21	44.872	W
2840.00	88.19	92.04	1038.12	157.64	1826.20	423448.39	1757216.93	39	39	33.879	N	80	21	44.463	W
2872.00	90.57	92.01	1038.46	156.51	1858.18	423447.26	1757248.91	39	39	33.871	N	80	21	44.054	W
2903.00	90.54	95.42	1038.16	154.50	1889.11	423445.25	1757279.84	39	39	33.854	N	80	21	43.658	W
2935.00	90.88	98.44	1037.76	150.64	1920.87	423441.39	1757311.60	39	39	33.818	N	80	21	43.251	W
2966.00	91.65	100.03	1037.08	145.67	1951.46	423436.42	1757342.19	39	39	33.772	N	80	21	42.860	W
2998.00	93.33	101.10	1035.69	139.81	1982.88	423430.56	1757373.61	39	39	33.717	N	80	21	42.457	W
3037.00	90.00	101.10	1034.56	132.30	2021.13	423423.05	1757411.86	39	39	33.647	N	80	21	41.967	W

Wadestown

Operator: CNX GAS COMPANY LLC  
 API: 6101566  
 WELL No: SC 1  
 Reviewed by: Chris J Date: 10/27/07  
 Due Date: 10/31

Kennedy Objection ✓

**CHECKLIST FOR FILING A PERMIT****Coalbed Methane**

- WW-5B
- WW-5B Cross-Sectional Diagram
- Inspector signature on WW-5B
- WW-5A (Notarized)
- Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- Public Notification *Needs to be in The Dominion Post*
- Surface Owner Waiver
- Coal Owner / Lessee / Operator Waiver
- Consent to Stimulate: Notified all owners and operators of seams of coal 28 inches or more within 750 feet of proposed well bore or a seam that is within 100 vertical feet of proposed stimulation zone and stimulation is requested.
- WW-2A-1 Showing Book/Page number and Royalty Percentage
- WW-2B-1 (Names, addresses, and spot on topographical map listed as water testing)
- WW-9 (Page 1 & 2) (Notarized)
- Inspector Signature on WW-9
- Reclamation Plan
- Topographic Map of location of well
- Mylar Plat (Surface owner on plat matches WW-2A)
  - Well location is not within 100 ft of outside boundary of the tract
  - Well location is not within 1600 ft of any permitted or proposed CBM wells without a waiver from all coal owners and operators.
- Bond
- Company is Registered with the SOS
- Worker's Compensation / Unemployment Insurance account is OK
- \$900.00 Check

04/29/2022