

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

API 47 - 001 - 03298H6A County Barbour District Union  
Quad Audra Pad Name AUD5HS Field/Pool Name Audra  
Farm name JENKINS, DANA L. Well Number AUD5HHS  
Operator (as registered with the OOG) CNX Gas Company LLC  
Address P.O. Box 1248 City Jane Lew State WV Zip 26378

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,328,485.89 m Easting 578,711.38 m  
Landing Point of Curve Northing 4,328,416.84 m Easting 578,952.18 m  
Bottom Hole Northing 4,327,387.88 m Easting 580,115.18 m

Elevation (ft) 1621.50' GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine  
Mud Type(s) and Additive(s)  
N/A (Production hole has not been drilled.)

Date permit issued 06/07/2013 Date drilling commenced 10/10/2014 Date drilling ceased N/A (Drilling has not been completed.)  
Date completion activities began N/A (Completion has not begun.) Date completion activities ceased N/A  
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 165 Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 2350 Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 350' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by: \_\_\_\_\_

**APPROVED**

NAME: [Signature]

DATE: 1-4-17

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CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	24"	20"	94'	N	J-55 94# / 94'	N/A	N (grout)
Surface	17 1/2"	13 3/8"	851.6'	N	J-55 84.5# / 881.6'	N/A	Y
Coal	-	-	-	-	-	-	-
Intermediate 1	12 1/4"	9 5/8"	2453.4'	N	J-55 36# / 2453.4'	N/A	Y
Intermediate 2	-	-	-	-	-	-	-
Intermediate 3	-	-	-	-	-	-	-
Production	N/A	(Production hole	has not been	drilled.)	-	-	-
Tubing	N/A	(Tubing has not	been run.)	-	-	-	-
Packer type and depth set		None					

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	875	15.60	1.22	820	0'	24
Surface	Class A	605	15.60	1.21	732	0'	8
Coal	-	-	-	-	-	-	-
Intermediate 1	Class A	823	15.60	1.19	979	0'	8
Intermediate 2	-	-	-	-	-	-	-
Intermediate 3	-	-	-	-	-	-	-
Production	N/A	(Production hole	has not been	drilled.)	-	-	-
Tubing	N/A	(Tubing has not	been run.)	-	-	-	-

Drillers TD (ft) N/A (Drilling has not been completed.) Loggers TD (ft) N/A (Drilling has not been completed.)  
 Deepest formation penetrated N/A (Drilling has not been completed.) Plug back to (ft) N/A (Drilling has not been completed.)  
 Plug back procedure N/A (Drilling has not been completed.)

Kick off depth (ft) N/A (Drilling has not been completed.)

Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic

Well cored  Yes  No Conventional Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING Conductor - No centralizers used.  
Fresh Water - Bow spring centralizers on first joint then every fourth joint to 100 feet from surface.  
 Coal - Bow spring centralizers on first joint then every fourth joint to 100 feet from surface.  
 Intermediate - Bow spring centralizers one on the first two joints and every fourth joint until inside surface casing.

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS N/A (Well has not been completed.)

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS N/A (Well has not been completed.)

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED N/A (Well has not been completed.)



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PRODUCING FORMATION(S)	DEPTHS	
N/A (Well has not been completed.)	TVD	MD
No producing formation(s)		

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface N/A psi Bottom Hole N/A psi DURATION OF TEST N/A hrs

OPEN FLOW Gas N/A mcfpd Oil N/A bpd NGL N/A bpd Water N/A bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
FILL	0	80	0		
LIMESTONE/SANDSTONE	80	250			
SANDSTONE	250	320			
DOLOMITES/SANDSTONE	320	350			
COAL/SANDSTONE	350	440			
SANDSTONE	440	880			
SANDSTONE/REDROCK	880	910			
SANDSTONE/SILTSTONE	910	1037			
MAXTON	1037	1149			
LITTLE LIME	1195	1211			
BIG LIME	1241	1456			
GANTZ	1520	1535			
GORDON	1953	2008			
FIFTH SAND	2242	2279			

Please insert additional pages as applicable.

Drilling Contractor Noah Horn  
Address 1070 Sandy Valley Lane City Oakwood State VA Zip 24631

Logging Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

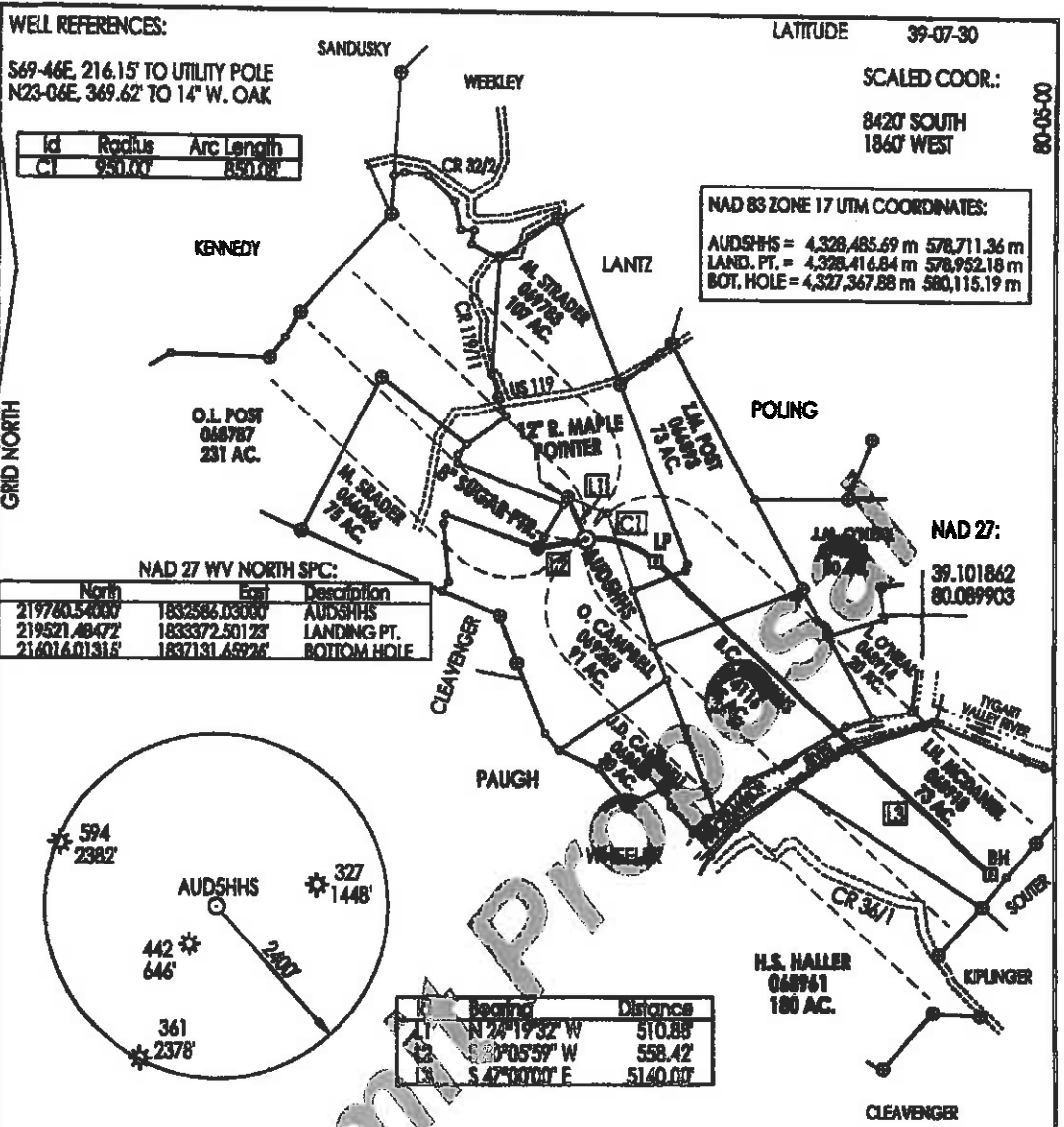
Cementing Company CalFrac  
Address 2001 Summit View Road City Smithfield State PA Zip 15478

Stimulating Company N/A (Formations have not been perforated or stimulated.)  
Address N/A City N/A State N/A Zip N/A

Please insert additional pages as applicable.

Completed by CNX Gas WV Operations Company, LLC - Drilling and Completions Telephone 304-884-2000  
Signature *Steve Spiller* Title Steve Spiller - Completions Manager-Gas WV Date 3-18-16

Submission of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NUMBER: \_\_\_\_\_  
 DRAWING NUMBER: **CNXAUDSHHS**  
 SCALE: 1" = 1600'  
 MINIMUM DEGREE OF ACCURACY: \_\_\_\_\_  
 PROVEN SOURCE OF ELEVATION: **GPS SURVEY**  
 CENTIMETER SYSTEM

I, THE UNDERSIGNED, HEREBY STATE THAT THIS PLAN 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 DEPARTMENT OF ENERGY.

(SIGNED) \_\_\_\_\_  
 STEPHEN D. LOSH, P.S. #674

STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS  
 810 MCLENNAN ROAD  
 NITRO, WV 25145-3886

LAND SURVEYING SERVICES  
 21 CEDAR LANE, BRIDGEPORT, WV 26330  
 PHONE 304-842-2018 OR 843-5762

DATE: **JANUARY 17, 2013**  
 OPERATORS WELL NO.: **AUDSHHS**  
 API WELL NO. **47-001-03298 HGA**  
 STATE COUNTY PERMIT **DEC 28 2016**

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WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION  WASTE DISPOSAL \_\_\_ CBM \_\_\_  
 (IF "GAS") PRODUCTION \_\_\_ STORAGE  DEEP \_\_\_ SHALLOW

LOCATION: ELEVATION **1621.50'** (494.24 m) WATERSHED **BUCKHANNON RIVER**  
 DISTRICT **UNION** COUNTY **BARBOUR**

QUADRANGLE **AUDRA** LEASE NUMBER **SEE ABOVE**

SURFACE OWNER **DANA L. JENKINS** ACREAGE **50.00 (10-42)**  
 OIL & GAS ROYALTY OWNER **O. CAMPBELL ET AL.** LEASE ACREAGE **1005.00**

PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION \_\_\_  
 PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE (SPECIFY) **HORIZONTAL**

TARGET FORMATION **MARCELLUS** PLUG & ABANDON \_\_\_ CLEAN OUT & REFLUG \_\_\_  
 ESTIMATED DEPTH **TYD = 8127 TMD = 1500'**

WELL OPERATOR **CNX GAS COMPANY LLC** DESIGNATED AGENT **JEREMY JONES**  
 ADDRESS **P.O. BOX 1248 JANE LEW, WV 26378** ADDRESS **P.O. BOX 1248 JANE LEW, WV 26378**

PROFILE VIEW

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*Profile View - Not Available - Drilling has not been completed*

DEVIATION SURVEY

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*Deviation Survey – Not Available – Drilling has not been completed*

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FRAC FOCUS REGISTRY

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*Frac Focus Registry – Not Available – Formations have not been perforated or stimulated*