

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

API 47 - 001 - 03294H6A County Barbour District Union
Quad Audra Pad Name AUD5HS Field/Pool Name Audra
Farm name JENKINS, DANA L. Well Number AUD5DHS
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 4,328,482.82 m Easting 578,697.93 m
Landing Point of Curve Northing 4,328,571.55 m Easting 578,439.44 m
Bottom Hole Northing 4,328,198.07 m Easting 677,744.80 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 12/15/2014 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:

RECEIVED
Office of Oil and Gas

DEC 28 2016

WV Department of
Environmental Protection

APPROVED

NAME: Amel Kryzads

DATE: 1-4-17

API 47-001 - 03294H6A Farm name JENKINS, DANA L. Well number AUD5DHS

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"	830'	N	J-55 54.6# / 830'	N/A	Y
Coal	-	-	-	-	-	-	-
Intermediate 1	12 1/4"	9 5/8"	2377.6'	N	J-55 36# / 2377.6'	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 ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	875	15.80	1.22	820	0'	24
Surface	Class A	642	15.60	1.21	777	0'	8
Coal	-	-	-	-	-	-	-
Intermediate 1	Class A	808	15.80	1.19	960	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.)

[Faint handwritten notes and signatures at the bottom of the page]

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

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
FILL	0	80	0		
LIMESTONE/SANDSTONE	80	250			
SANDSTONE	250	320			
DOLOMITE/SANDSTONE	320	350			
COAL/SANDSTONE	350	440			
SANDSTONE	440	890			
SANDSTONE/REDROCK	890	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 Spitzer Title Steve Spitzer - Completions Manager-Gas WV Date 3-18-13

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

WELL REFERENCES: S73-23E, 259.78' TO UTILITY POLE N29-10E, 390.22' TO 14" W. OAK

LATITUDE 39-07-30

GRADED COOR.: 8425' SOUTH 19C5' WEST

80-05-00

Id	Radius	Arc Length
C1	1150.00'	921.38'

NAD 83 ZONE 17 UTM COORDINATES:
 AUD5DHS = 4,328,487.82 m 578,697.93 m
 LAND PT. = 4,328,571.55 m 578,439.44 m
 BOT HOLE = 4,329,198.07 m 577,744.80 m

NAD 27 WY NORTH SPC.

North	East	Description
219751.84000	1832541.80300	AUD5DHS
220057.10417	1831698.41030	LANDING PT
222150.83914	1829453.15444	BOTTOM HOLE

Diagram showing well location (AUD5DHS) and various land parcels (e.g., M. STRADER 107 AC, O. CAMPBELL 71 AC, H.S. HALLER 180 AC) with bearings and distances.

Bearing	Distance
N 19°18'54" W	502.51'
S 80°12'27" W	513.35'
N 47°00'00" W	3070.00'

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

FILE NUMBER: CNXAUD5DHS
 DRAWING NUMBER: CNXAUD5DHS
 SCALE: 1" = 160'
 MINIMUM DEGREE OF ACCURACY: 5"
 PROVEN SOURCE OF ELEVATION: STATE SPS SURVEY
 CENTIMETER SYSTEM

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

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 DEPT. OF ENL. AND GAS
 110 MARKET STREET
 NWSO WV 26148-3600

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

DATE: JANUARY 17, 2013

OPERATORS WELL NO.: AUD5DHS
 API WELL NO.: 47-001-03294 HGA
 STATE COUNTY PERMIT

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: AUDA LEASE NUMBER: SEE ABOVE

SURFACE OWNER: DANA L. JENKINS ACREAGE: 50.00 (10-42)
 OIL & GAS ROYALTY OWNER: O. CAMPBELL ET AL. LEASE ACREAGE: 1006.00

PROPOSED WORK: DRILL CONVERT DRILL DESPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PREPARE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY): HORIZONTAL

TARGET FORMATION: MARCELLUS PLUG & ABANDON CLEAN OUT & REPLUG
 ESTIMATED DEPTH: TVD = 8127' TMD = 13000'

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

COUNTY NAME: BARBOUR
 PERMIT:

PROFILE VIEW

API 47-001-03294H6A Farm Name JENKINS, DANA L. Well Number AUD5DHS

Profile View – Not Available – Drilling has not been completed

DEVIATION SURVEY

API 47-001-03294H6A Farm Name JENKINS, DANA L. Well Number AUDSDHS

Deviation Survey – Not Available – Drilling has not been completed

FRAC FOCUS REGISTRY

API 47-001-03294H6A Farm Name JENKINS, DANA L. Well Number AUD5DHS

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