

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

API 47-001-03349H6A County Barbour District Phlippi
Quad Audra Pad Name AUD7HS Field/Pool Name Audra
Farm name MURPHY, BRIAN E. & LISA L. Well Number AUD7FHS
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 4,330,700.09 m Easting 579,248.13 m
Landing Point of Curve Northing 4,330,860.38 m Easting 579,830.45 m
Bottom Hole Northing 4,329,750.19 m Easting 581,061.35 m

Elevation (ft) 1568' 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 10/24/2014 Date drilling commenced 11/05/2014 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 160', 635', 725', 730' Open mine(s) (Y/N) depths Y
Salt water depth(s) ft 1870' Void(s) encountered (Y/N) depths 328'-336'
Coal depth(s) ft 320', 635', 725', 730' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) Y

Reviewed by: _____

APPROVED

NAME: Ernest Keyable

DATE: 1-4-17

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CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	42"	30"	80'	N	L.S. 120# / 80'	N/A	N (grout)
Surface	28"	20"	389.4'	N	J-55 94# / 389.4'	N/A	Y
Coal	17 1/2"	13 3/8"	808.6'	N	J-55 64.5# / 808.6'	N/A	N (grout)
Intermediate 1	12 3/8"	9 5/8"	2124.2'	N	J-55 36# / 2124.2'	N/A	Y
Intermediate 2	-	-	-	-	-	-	-
Intermediate 3	-	-	-	-	-	-	-
Production	N/A	(Production hole	has not been	drilled.)	-	-	-
Tubing	N/A	(Tubing has not	been run.)	-	-	-	-
Paacker 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	675	15.60	1.22	823.5	0'	24
Surface	Class A	555	15.60	1.21	671.55	Surface	8
Coal	Class A	660	15.60	1.20	782	Surface	8
Intermediate 1	Class A (Lead)	675	15.60	1.22	824	Surface	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 - Blow spring centralizers on first joint then every fourth joint to 100 feet from surface.

Coal - Blow spring centralizers on first joint then every fourth joint to 100 feet from surface.

Intermediate - Blow 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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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
			Well has not been completed. Formations have not been perforated.		

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
				Well has not been completed. No stimulation has occurred.				

Please insert additional pages as applicable.

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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	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	10	0		
SAND/SHALE	10	135			Gray
SAND/SHALE	140	320			White / Light Gray
COAL	320	440			White / Tan
SAND/SHALE	440	600			White / Medium Gray
SAND/SHALE/COAL	600	640			Gray
SHALE	640	713			Black
SAND/SHALE/COAL	713	1167			Gray
LITTLE LIME	1167	1234			
BIG LIME	1234	1308			
KEENER	1308	1387			
BIG INJUN SAND	1395	1447			
GANTZ	1600	1874			
FIFTH SAND	2114				

Please insert additional pages as applicable.

Drilling Contractor Yost
Address 313 Steel Hill Road City Mt. Morris State PA Zip 15349

Logging Company _____
Address _____ City _____ State _____ Zip _____

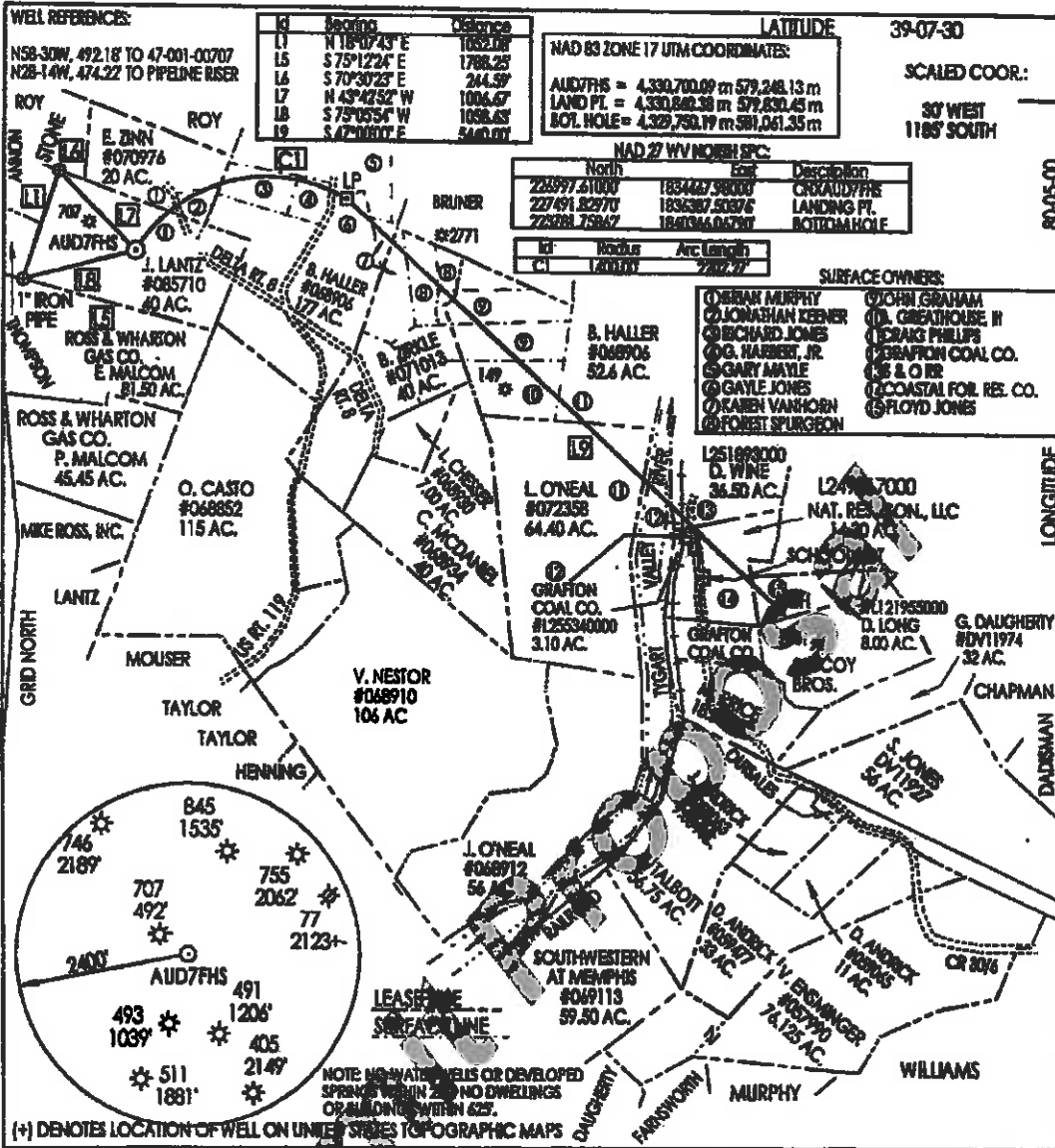
Cementing Company Schlumberger
Address 147 Industrial Park Road City Brookville State PA Zip 15825

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

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



FILE NUMBER: _____
 DRAWING NUMBER: **CNXAUD7FHS/CS**
 SCALE: 1" = 1300'
 MINIMUM DEGREE OF ACCURACY: **SUBMITTER**
 PROVEN SOURCE OF ELEVATION: **DGPS SURVEY**
RTK 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
 870 McENRY ROAD
 HERRING, WV 25143-2886

FORM WW-6

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

LOCATION: ELEVATION **1568'** WATERSHED **ELK CREEK**
 DISTRICT **PHILIPPI** COUNTY **BARBOUR**
 QUADRANGLE **AUDRA** LEASE NUMBER **SEE ABOVE**

SURFACE OWNER **BRIAN E. & LISA L. MURPHY** ACREAGE **38.00 (13-10)**
 OIL & GAS ROYALTY OWNER **O. CASTO, ET. AL UNIT** LEASE ACREAGE **1048.63**

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** ESTIMATED DEPTH **TVD = 7950' TMD = 16415'**

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

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

DATE: **AUGUST 26, 2014**
 OPERATORS WELL NO.: **AUD7FHS**
 API WELL NO. **47-001-03349H00**
 STATE COUNTY PERMIT

COUNTY NAME **BARBOUR**
 PERMIT NO. **47-001-03349H00**

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