

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

API 47-001-03352H6A County Barbour District Phillippi
Quad Audra Pad Name AUD7HS Field/Pool Name Audra
Farm name MURPHY, BRIAN E. & LISA L. Well Number AUD7HS
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 4,330,684.23 m Easting 578,239.03 m
Landing Point of Curve Northing 4,330,283.69 m Easting 578,104.97 m
Bottom Hole Northing 4,328,508.20 m Easting 581,073.50 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 12/06/2014 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: [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 | 42" | 30" | 81' | N | L.S. 120# / 81' | N/A | N (grout) |
| Surface | 28" | 20" | 403' | N | J-55 94# / 403' | 312' | Y |
| Coal | 17 1/2" | 13 3/8" | 817.8' | N | J-55 54.6# / 817.8' | N/A | Y |
| Intermediate 1 | 12 3/8" | 9 5/8" | 2149.2' | N | J-55 38# / 2149.2' | N/A | Y |
| Intermediate 2 | - | - | - | - | - | - | - |
| Intermediate 3 | - | - | - | - | - | - | - |
| Production | N/A | (Production hole | has not been | drilled.) | - | - | - |
| Tubing | N/A | (Tubing has not | been run.) | - | - | - | - |
| 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 | 675 | 15.80 | 1.22 | 820 | 0' | 24 |
| Surface | Class A | 438 / 464 | 15.60 | 1.20 | 1060 | Surface | 8 |
| Coal | Class A | 655 | 15.60 | 1.20 | 780 | Surface | 8 |
| Intermediate 1 | Class A | 740 | 15.60 | 1.22 | 904 | 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 - 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 | 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 | 1187 | | | Gray |
| LITTLE LIME | 1187 | 1234 | | | |
| BIG LIME | 1234 | 1308 | | | |
| KEENER | 1308 | 1387 | | | |
| BIG INJUN SAND | 1395 | 1447 | | | |
| GANTZ | 1600 | 1674 | | | |
| 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 Spitzer Title Steve Spitzer - Completions Manager-Gas WV Date 3/13/16

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

| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>ID</th> <th>Acres</th> <th>Ac Length</th> </tr> <tr> <td>ROY</td> <td>651.07</td> <td>908.27</td> </tr> </table> | ID | Acres | Ac Length | ROY | 651.07 | 908.27 | <p>NAD 83 ZONE 17 UTM COORDINATES:</p> <p>AUD7HS = 4,330,684.23 m 579,239.03 m TANG. PT. = 4,330,537.85 m 579,084.52 m LAND PT. = 4,330,288.69 m 579,104.97 m BOT. HOLE = 4,328,508.30 m 591,073.50 m</p> <p>NAD 27 WV NORTH SPC:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>North</th> <th>East</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>22894619.00</td> <td>1832437.28000</td> <td>AUD7HS</td> </tr> <tr> <td>224474.00000</td> <td>1833972.82353</td> <td>TANGENT PT.</td> </tr> <tr> <td>225639.83386</td> <td>1833975.54449</td> <td>LANDING PT.</td> </tr> <tr> <td>219705.44813</td> <td>1840338.32367</td> <td>NOTIONAL HOLE</td> </tr> </tbody> </table> | North | East | Description | 22894619.00 | 1832437.28000 | AUD7HS | 224474.00000 | 1833972.82353 | TANGENT PT. | 225639.83386 | 1833975.54449 | LANDING PT. | 219705.44813 | 1840338.32367 | NOTIONAL HOLE | <p>LATITUDE 39-07-30</p> <p>SCALED COOR.: 60' WEST 1230' SOUTH</p> | <p>SURFACE OWNERS:</p> <ol style="list-style-type: none"> 1 BRIAN MURPHY 2 PATRICIA MARUCA 3 MIKE MALCOLM 4 CHRISTINE YOCUM 5 DOBS NUBUM 6 KEITH NUBUM 7 SAMUEL WRIGHT 8 CRAIG PHILLIPS 9 BLO ER 10 E. STEVE DAUGHERTY 11 DEBRA LAW 12 ROBERTA TROXAL 13 WILLIAM ANDRICK |
|---|---|---|-----------|-----|--------|--------|---|-------|------|-------------|-------------|---------------|--------|--------------|---------------|-------------|--------------|---------------|-------------|--------------|---------------|---------------|--|--|
| ID | Acres | Ac Length | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>FILE NUMBER: _____</p> <p>DRAWING NUMBER: CNXAUD7HS</p> <p>SCALE: 1" = 1300'</p> <p>MINIMUM DEGREE OF ACCURACY: SUBMETER</p> <p>PROVEN SOURCE OF ELEVATION: DGPS SURVEY RTK CENTER SYSTEM</p> | <p>I, THE UNDERSIGNED, HEREBY STATE THAT THIS PLAT 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.</p> <p>(SIGNED) _____</p> <p>STEPHEN D. LOSH, P.S. #674</p> | <p style="text-align: center;">PLACE SEAL HERE</p> | | | | | | | | | | | | | | | | | | | | | | |
| <p>STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS 619 HIGHLAND ROAD NHEA, WV 26149-0006</p> <p>FORM WW-4</p> | <p>LAND SURVEYING SERVICES 21 CEDAR LANE, BRIDGEPORT, WV 26330 PHONE: 304-842-2018 OR 842-5762</p> | <p>DATE: AUGUST 22, 2014</p> <p>OPERATORS WELL NO.: AUD7HS</p> <p>API WELL NO. H764 47-001-03352</p> <p>STATE: COUNTY: PERMIT:</p> | | | | | | | | | | | | | | | | | | | | | | |
| <p>WELL TYPE: OIL <input type="checkbox"/> GAS <input type="checkbox"/> LIQUID INJECTION <input checked="" type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> CBM <input type="checkbox"/></p> <p>(IF "GAS") PRODUCTION <input type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/></p> <p>LOCATION: ELEVATION 1568' WATERSHED ELK CREEK</p> <p>DISTRICT PHILIPPI COUNTY BARBOUR</p> <p>QUADRANGLE AUDRA LEASE NUMBER SEE ABOVE</p> <p>SURFACE OWNER BRIAN E. & LISA L. MURPHY ACREAGE 39.00 (13-10)</p> <p>OIL & GAS ROYALTY OWNER O. CASTO, ET. AL UNIT LEASE ACREAGE 1099.13</p> <p>PROPOSED WORK: DRILL <input type="checkbox"/> CONVERT <input checked="" type="checkbox"/> DRILL DEEPER <input type="checkbox"/> RE-DRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/></p> <p>PERFORATE NEW FORMATION <input type="checkbox"/> OTHER PHYSICAL CHANGE (SPECIFY) HORIZONTAL</p> <p>TARGET FORMATION MARCELLUS PLUG & ABANDON CLEAN OUT & REPLUG</p> <p>ESTIMATED DEPTH TVD = 7950' TMD = 18260'</p> <p>WELL OPERATOR CNX GAS COMPANY LLC DESIGNATED AGENT MATTHEW MURCH</p> <p>ADDRESS P.O. BOX 1248 JANE LEW, WV 26378 ADDRESS P.O. BOX 1248 JANE LEW, WV 26378</p> | | | | | | | | | | | | | | | | | | | | | | | | |

PROFILE VIEW

API 47-001-03352H6A Farm Name MURPHY, BRIAN E. & LISA L. Well Number AUD7IHS

Profile View – Not Available – Drilling has not been completed

DEVIATION SURVEY

API 47-001-03352H6A Farm Name MURPHY, BRIAN E. & LISA L. Well Number AUD7IHS

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