

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

RECEIVED
Office of Oil and Gas
JUL 11 2022

API 47-087-04748 County ROANE District SMITHFIELD
Quad LOONEYVILLE 7.5' Pad Name CHARLES MCGRAW Field/Pool Name CLOVER
Farm name SNODGRASS, REVA ET AL Well Number 205
Operator (as registered with the OOG) H.G. ENERGY LLC
Address 5260 DuPONT ROAD City PARKERSBURG State WV Zip 26101

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,285,358 M Easting 475,291 M
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing 4,285,120 M Easting 475,300 M

Elevation (ft) 1,110' 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

Date permit issued 6/22/22 Date drilling commenced N/A Date drilling ceased N/A
Date completion activities began 6/29/22 Date completion activities ceased 7/1/22
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

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

Freshwater depth(s) ft None Open mine(s) (Y/N) depths None
Salt water depth(s) ft 1820' Void(s) encountered (Y/N) depths None
Coal depth(s) ft None Cavern(s) encountered (Y/N) depths None
Is coal being mined in area (Y/N) N

Reviewed by:
JPD
7-13-22

API 47-087 - 04748 Farm name SNODGRASS, REVA ET AL Well number 205

| 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 | 12 1/4" | 11 5/8" | 30' | Used | LS | | Sand In |
| Surface | 8 3/4" | 7" | 550' | New | LS | 64' | Existing |
| Coal | | | | | | | |
| Intermediate 1 | | | | | | | |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | 6 1/4" | 4 1/2" | 2540.8' | New | J-55 | | Existing |
| Tubing | | 2 3/8" | 2300.05 | New | J-55 | | |
| Packer type and depth set | | Tension packer set at 2300' | | | | | |

Comment Details Circulated Est. 25 sks to surface on 7" surface cement job. Did not circulate to surface on 4 1/2" cement job.

| 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 | | | | | | | |
| Surface | Reg Neat | 140 | 15.6 | 1.18 | 165.2 | Surface | Existing |
| Coal | | | | | | | |
| Intermediate 1 | | | | | | | |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | 50:50 Pozmix | 115/125 | 13.2/14.2 | 1.64/1.27 | 189/186 | 344' | Existing |
| Tubing | | | | | | | |

Drillers TD (ft) 2601' Loggers TD (ft) 2592'

Deepest formation penetrated Big Injun Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 550'

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 _____

20 Centralizers every 88 from bottom on 4 1/2", Centralizer placed mid string on 7"

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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PERFORATION RECORD

| Stage No. | Perforation date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formation(s) |
|-----------|------------------|------------------------|----------------------|------------------------|--------------|
| 1 | 4/28/15 | 2396' | 2406' | 40 | Big Injun |
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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) |
|-----------|-------------------|---------------------|------------------------------|------------------------------|------------|--------------------------|------------------------|----------------------------------|
| 1 | 4/30/15 | 5 | 1360 | 3119 | 365 | 2,500 | 153 | |
| 1 | 3/3/15 | 6.5 | 402 | 401 | 539 | 15,000 | 231 | |
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Please insert additional pages as applicable.

Handwritten signature in black ink, appearing to be 'JP' with a stylized flourish.

API 47- 087 - 04748 Farm name SNODGRASS, REVA ET AL Well number 205

| <u>PRODUCING FORMATION(S)</u> | <u>DEPTHS</u> | |
|-------------------------------|-------------------------|------------------------|
| <u>Big Injun</u> | <u>2158'- 2178'</u> TVD | <u>2386'- 2414'</u> MD |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump
 SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs
 OPEN FLOW Gas _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd GAS MEASURED BY
 Estimated Orifice Pilot

| <u>LITHOLOGY/ FORMATION</u> | <u>TOP DEPTH IN FT NAME TVD</u> | <u>BOTTOM DEPTH IN FT TVD</u> | <u>TOP DEPTH IN FT MD</u> | <u>BOTTOM DEPTH IN FT MD</u> | <u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)</u> |
|---------------------------------|---|---------------------------------------|-----------------------------------|--------------------------------------|--|
| Sand/Shale | 0 | 994 | 0 | 996 | |
| Sand | 994 | 1098 | 996 | 1102 | |
| Shale | 1098 | 1183 | 1102 | 1190 | |
| Sand | 1183 | 1374 | 1190 | 1386 | |
| Shale | 1374 | 1686 | 1386 | 1736 | |
| Sand | 1686 | 1993 | 1736 | 2152 | |
| Little Lime | 1993 | 2007 | 2152 | 2172 | |
| Pencil Cave | 2007 | 2015 | 2172 | 2184 | |
| Big Lime | 2015 | 2132 | 2184 | 2350 | |
| Keener | 2132 | 2158 | 2350 | 2386 | |
| Big Injun | 2158 | 2178 | 2386 | 2414 | Drilled directional S 6° E a distance of 728' |
| Shale | 2178 | 2305 | 2414 | 2601 | |
| TD | 2305 | | 2601 | | |

Please insert additional pages as applicable.

Drilling Contractor Decker Drilling
 Address 11565 State Route 676 City Vincent State OH Zip 45784

Logging Company Weatherford International
 Address 777 North River Avenue City Weston State WV Zip 26452

Cementing Company Universal Services
 Address Hall Rd City Buckhannon State WV Zip 26201

Stimulating Company Producers Service Corp.
 Address 109 South Graham Street City Zanesville State OH Zip 43701

Please insert additional pages as applicable.

Completed by Roger Heldman Telephone 304-420-1107
 Signature  Title Operations Manager Date 7/8/22

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

