

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

API 47 - 033 - 04878 County HARRISON District TEN MILE
Quad WOLF SUMMIT 7.5' Pad Name LYNCH, HIRAM Field/Pool Name WOLF SUMMIT
Farm name TURNER, DAVID & SANDRA Well Number 106
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 4,347,943 M Easting 543,162 M
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 1,118' 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 2/11/14 Date drilling commenced _____ Date drilling ceased _____
Date completion activities began 8/22/14 Date completion activities ceased 8/25/14
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 N
Salt water depth(s) ft None Void(s) encountered (Y/N) depths N
Coal depth(s) ft 410'- 416' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

API 47-033 - 04878 Farm name TURNER, DAVID & SANDRA Well number 106

| 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" | 450' | New | LS | 64' | Existing |
| Coal | | | | | | | |
| Intermediate 1 | | | | | | | |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | 6 1/4" | 4 1/2" | 2870.8' | New | J-55 | | Existing |
| Tubing | | | | | | | |
| Packer type and depth set | | | | | | | |

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 | | | | | | | |
| Surface | Reg Neat | 110 | 15.6 | 1.18 | 130 | Existing | 8 |
| Coal | | | | | | | |
| Intermediate 1 | | | | | | | |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | 50:50 Pozmix | 150 | 14.2 | 1.27 | 191 | Existing | 8 |
| Tubing | | | | | | | |

Drillers TD (ft) ^{2900'} _____ Loggers TD (ft) ^{2890'} _____
 Deepest formation penetrated Fifth Sand Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) _____

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 _____

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 _____

API 47- 033 - 04878 Farm name TURNER, DAVID & SANDRA Well number 106

PERFORATION RECORD

| Stage No. | Perforation date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formation(s) |
|-----------|------------------|------------------------|----------------------|------------------------|--------------|
| 1 | 4/16/08 | 2740' | 2750' | 60 | Fifth Sand |
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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 | 8/25/14 | 10 | 1675 | 2453 | 1634 | 15,000 | 319 bbls | |
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Please insert additional pages as applicable.

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| <u>PRODUCING FORMATION(S)</u> | <u>DEPTHS</u> | |
|-------------------------------|---------------|--------------------|
| Fifth Sand | 2740'- 2750' | TVD _____ 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 Oil NGL Water GAS MEASURED BY

 _____ mcfpd _____ bpd _____ bpd _____ bpd Estimated Orifice Pilot

| <u>LITHOLOGY/ FORMATION</u> | <u>TOP</u> | <u>BOTTOM</u> | <u>TOP</u> | <u>BOTTOM</u> | <u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)</u> |
|---------------------------------|---------------------------------|----------------------------|---------------------------|---------------------------|--|
| | <u>DEPTH IN FT NAME TVD</u> | <u>DEPTH IN FT TVD</u> | <u>DEPTH IN FT MD</u> | <u>DEPTH IN FT MD</u> | |
| | 0 | | 0 | | See Original WR35 Well Record |
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Please insert additional pages as applicable.

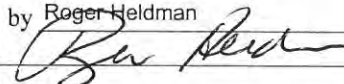
Drilling Contractor _____
Address _____ City _____ State _____ Zip _____

Logging Company _____
Address _____ City _____ State _____ Zip _____

Cementing Company _____
Address _____ City _____ State _____ Zip _____

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 1/12/16

Prepared for:
 H G Energy LLC
 Dustin Hendershot



Prepared by:
 Producers Service Corp
 Chris Bryan
 109 S. Graham St.
 Zanesville, OH 43702
 740-454-6253

INVOICE #: 16773
WELL NAME: Hiram Lynch #106
DATE of SERVICE: 8/25/2014
CUSTOMER PO#

| Description | Notes | Amount | Units | Unit Cost | Total Cost |
|---|--------------------|--------|-------|-----------|------------|
| BLENDER CHARGE 0-10 BPM | | 1 | EA | | |
| FLUID PUMP CHARGE 0-3000 PSI MIN CHARGE | | 1 | EA | | |
| MILEAGE CHARGE PER UNIT ONE WAY | 2 Units @ 70 Miles | 140 | MI | | |
| IC ACID 15% | | 300 | GAL | | |
| ACID DELIVERY | | 4 | HR | | |
| PRO HIB II | | 1 | GAL | | |
| PRO CLA LOK (KCL SUBSTITUTE) | | 20 | GAL | | |
| PRO NE-21 | | 10 | GAL | | |
| PRO GEL 4 | | 250 | LB | | |
| BUFFER II | | 50 | LB | | |
| BUFFER I | | 50 | LB | | |
| BIO CLEAR 750 | | 1 | LB | | |
| AP BREAKER | | 22 | LB | | |
| BXL-A | | 15 | GAL | | |
| BXL-10C | | 15 | GAL | | |
| DATA VAN | | 1 | STAGE | | |
| SAND 20/40 OTTAWA | | 150 | CWT | | |
| SAND DELIVERY / TON MILES | 7.5 Ton @ 70 Miles | 525 | TMILE | | |
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Customer Approval: _____