

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

API 47-049-02127 County Marion District Lincoln
Quad Mannington 7.5' Pad Name Haught Field/Pool Name _____
Farm name Thomas J. & Linda Eminson Well Number 2028
Operator (as registered with the OOG) Waco Oil & Gas Co., Inc.
Address P.O. Box 397 City Glenville State WV Zip 26351

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 383946 Easting 1779375
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 1181' 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 None
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)

Date permit issued 10/07/2010 Date drilling commenced 10/26/2010 Date drilling ceased 11/09/2010
Date completion activities began N/A Date completion activities ceased N/A
Verbal plugging (Y/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 40, 105 Open mine(s) (Y/N) depths _____ N
Salt water depth(s) ft 1820 Void(s) encountered (Y/N) depths _____
Coal depth(s) ft None Cavern(s) encountered (Y/N) depths _____
Is coal being mined in area (Y/N) No

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APPROVED

NAME: Jacqueline Thrun
DATE: 5/12/16
05/27/2016

AX
05/25/16
ws

API 47-049 - 02127 Farm name Thomas J. & Linda Eminson Well number 2028

| 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 | 16 | 16 | 40 | N | 42 | | |
| Surface | 13 | 11 3/4 | 764' | N | 32 | 738 | Yes |
| Coal | | | | | | | |
| Intermediate 1 | 10 | 8 5/8 | 2036 | | | | |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | | | | | | | |
| 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 | A | 30 | 5.2 | 1.18 | | | 8 |
| Surface | | | | | | | |
| Coal | | | | | | | |
| Intermediate 1 | A | 380 | 5.2 | 1.18 | | | 8 |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | | | | | | | |
| Tubing | | | | | | | |

Drillers TD (ft) ³¹¹⁶ _____ Loggers TD (ft) ³¹⁰⁴ _____
 Deepest formation penetrated 5th Sand Plug back to (ft) _____
 Plug back procedure _____

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 _____

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____ MAY 09 2016

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

05/27/2016

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| <u>PRODUCING FORMATION(S)</u> | <u>DEPTHS</u> | |
|-------------------------------|---------------|--------|
| 5th Sand | 3010 | TVD MD |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 40 psi Bottom Hole _____ psi DURATION OF TEST 6 hrs

OPEN FLOW Gas 50 mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd GAS MEASURED BY Estimated Orifice Pilot

| LITHOLOGY/ FORMATION | TOP DEPTH IN FT NAME TVD | BOTTOM DEPTH IN FT TVD | TOP DEPTH IN FT MD | BOTTOM DEPTH IN FT MD | DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC) |
|-------------------------|--------------------------------|------------------------------|--------------------------|-----------------------------|--|
| Earth | 0 | 62 | 0 | | |
| Shale | 62 | 106 | | | |
| Coal | 106 | 114 | | | |
| Red Rock | 114 | 120 | | | |
| Shale | 120 | 190 | | | |
| Coal | 190 | 199 | | | |
| Sd & Shale | 199 | 371 | | | |
| Mapletown | 371 | 379 | | | |
| Shale | 379 | 521 | | | |
| Mapletown Coal | 521 | 527 | | | |
| Pittsburgh Coal | 626 | 635 | | | |
| Dunkard | 1018 | 1128 | | | |
| 1 Salt Sand | 1453 | 1501 | | | |
| 2 Salt Sand | 1568 | 1616 | | | |

Please insert additional pages as applicable.

Drilling Contractor Waco Oil & Gas Co., Inc.
Address P.O. Box 397 City Glenville State WV Zip 26351

Logging Company Weatherford
Address _____ City _____ State _____ Zip _____

Cementing Company Universal
Address _____ City _____ State _____ Zip _____

Stimulating Company N/A
Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Stephen E. Holloway Telephone 304-462-5347
Signature  Title Land Manager Date 02/24/2016

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

05/27/2016

API

47-049-02127

FARM NAME

Thomas J. & Linda Eminson

WELL NUMBER

2028

| LITHOLOGY/ FORMATION | TOP DEPTH IN FT NAME TVD | BOTTOM DEPTH IN FT TVD | TOP DEPTH IN FT MD | BOTTOM DEPTH IN FT MD | DESCRIBE ROCK TYPE AND RECORD QUANTITIES AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC.) |
|-------------------------|--------------------------------|------------------------------|--------------------------|-----------------------------|---|
| | 0 | | 0 | | |
| 3 Salt Sand | 1684 | 1701 | | | |
| Red Rock | 1701 | 1873 | | | |
| Little Lime | 1873 | 1890 | | | |
| Pencil Cave | 1890 | 1922 | | | |
| Big Lime | 1922 | 2002 | | | |
| Big Injun | 2002 | 2154 | | | |
| Gantz | 2534 | 2546 | | | |
| 50 ft. Sand | 2616 | 2666 | | | |
| 30 ft. Sand | 2676 | 2708 | | | |
| Gordon Strey | 2920 | 2936 | | | |
| Gordon | 2950 | 2970 | | | |
| Fifth Sand | 3010 | 3025 | | | |
| | | | | | |
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