

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

API 47 - 069 - 00183 County OHIO District LIBERTY
Quad VALLEY GROVE Pad Name ALICE EDGE-OHI-PAD1 Field/Pool Name PANHANDLE
Farm name EDGE, ALICE MAE Well Number ALICE EDGE OHI 301H
Operator (as registered with the OOG) SWN PRODUCTION COMPANY LLC
Address P.O. BOX 12359 City SPRING State TX Zip 77391-2359

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4438926.190 Easting 537473.681
Landing Point of Curve Northing 4438576.609 Easting 536625.615
Bottom Hole Northing 4441280.489 Easting 535695.172

Elevation (ft) 1199' 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)
SOBM

Date permit issued 10/08/2014 Date drilling commenced 10/28/2014 Date drilling ceased 12/03/2014
Date completion activities began 08/30/2015 Date completion activities ceased 10/26/2015
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 200' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 732' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 582' Cavern(s) encountered (Y/N) depths N

Is coal being mined in area (Y/N) N

APPROVED

NAME: Jackie Thornton
DATE: 9/22/16

Reviewed by: _____
10/28/2016

API 47-069 - 00183 Farm name EDGE, ALICE MAE Well number ALICE EDGE OHI 301H

| 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 | 26 | 20 | 120' | N | J-55/ 94# | | Y |
| Surface | 17.5 | 13.375 | 624' | N | J-55/ 54.50# | | Y, 35 BBLs TO SURFACE |
| Coal | SEE SURFACE | | | | | | |
| Intermediate 1 | 12.25 | 9.625 | 2107' | N | J-55/ 40# | | Y, 35 BBLs TO SURFACE |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | 8.75 TO 8.50 | 5.5 | 17243' | N | P-110/20# | | Y |
| Tubing | | 2.375 | 7726' | N | L-80/4.70# | | N |
| Packer type and depth set | | N/A | | | | | |

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 | GROUT | 19.3 | 1.20 | | SURFACE | 24 |
| Surface | A | 610 | 15.6 | 1.20 | 732 | SURFACE | 8 |
| Coal | SEE SURFACE | | | | | | |
| Intermediate 1 | A | 802 | 15.7 | 1.19 | 954.38 | SURFACE | 8 |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | A | 985/2516 | 15.3/15.6 | 1.30/1.19 | 1280.5/2994.04 | SURFACE | 24 |
| Tubing | | | | | | | |

Drillers TD (ft) 17,243 Loggers TD (ft) 17,243

Deepest formation penetrated MARCELLUS Plug back to (ft) NA

Plug back procedure NA

Kick off depth (ft) 6269'

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 _____

ALL CASING STRINGS RAN WITH A CENTRALIZER AT A MINIMUM OF 1 PER EVERY 3RD JOINT OF CASING

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 _____

10/28/2016
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PERFORATION RECORD

| Stage No. | Perforation date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formation(s) |
|-----------|------------------|------------------------|----------------------|------------------------|--------------|
| | SEE | ATTACHED | | | |
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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) |
|-----------|-------------------|---------------------|------------------------------|------------------------------|------------|--------------------------|------------------------|----------------------------------|
| | | SEE | ATTACHED | | | | | |
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| <u>PRODUCING FORMATION(S)</u> | <u>DEPTHS</u> | | |
|-------------------------------|----------------|------------|--------------------------|
| <u>MARCELLUS</u> | <u>6372.07</u> | <u>TVD</u> | <u>7530.45</u> <u>MD</u> |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump
 SHUT-IN PRESSURE Surface 1400 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs
 OPEN FLOW Gas 4228 MCFD mcfpd Oil 463 BBL bpd NGL _____ bpd Water 286 BBL bpd GAS MEASURED BY 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> | |
| | <u>0</u> | | <u>0</u> | | |
| | | <u>SEE ATTACHED</u> | | | |
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Please insert additional pages as applicable.

Drilling Contractor NOMAC
 Address 3400 SOUTH RADIO ROAD City EL RENO State OK Zip 73036

Logging Company NINE ENERGY SERVICES
 Address 16945 NORTHCHASE DR, STE 1600 City HOUSTON State TX Zip 77060

Cementing Company SCHLUMBERGER
 Address 110 SCHLUMBERGER DRIVE City SUGAR LAND State TX Zip 77478

Stimulating Company DOWELL SCHLUMBERGER
 Address 1121 BUSCHONG ST City HOUSTON State TX Zip 77039

Please insert additional pages as applicable.

Completed by ELIZABETH GEE Telephone 832-796-7632
 Signature _____ Title SR. REGULATORY ANALYST Date 10/28/2016

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry
 Office of Oil and Gas
 Environmental Protection Department
 10/28/2016