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

API 47 - 069 - 00181 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 201H
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 4438947.520 Easting 537467.805
Landing Point of Curve Northing 4439089.837 Easting 537403.955
Bottom Hole Northing 4441755.916 Easting 536186.648

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 11/13/2014
Date completion activities began 08/31/2015 Date completion activities ceased 10/30/2015
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/as
Is coal being mined in area (Y/N) N

APPROVED
NAME: Jackie Thornton
DATE: 9/22/16

Reviewed by:

10/28/2016

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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	28	20	120'	N	J-55/ 94#		Y, 13 BBLS TO SURFACE
Surface	17.5	13.375	630'	N	J-55/ 54.50#		Y, 32 BBLS TO SURFACE
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	2106'	N	J-55/ 40#		Y, 35 BBLS TO SURFACE
Intermediate 2							
Intermediate 3							
Production	8.75 TO 8.50	5.5	18756'	N	P-110/20#		Y
Tubing		2.375	7071'	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	200	15.6	1.20	240	SURFACE	24
Surface	A	610	15.6	1.20	732	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	A	805	15.7	1.19	957.95	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	A	1007/2821	15.3/15.6	1.31/1.19	1319/3357	SURFACE	24
Tubing							

Drillers TD (ft) 18756' Loggers TD (ft) 18756'

Deepest formation penetrated MARCELLUS Plug back to (ft) NA

Plug back procedure NA

Kick off depth (ft) 6217'

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

Received
Office of Oil and Gas
SEP 13 2016
WV Department of Environmental Protection
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			

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					

Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS		
MARCELLUS	6375.5 TVD	6965.58 MD	

Please insert additional pages as applicable.

GAS TEST ☐ Build up ☐ Drawdown ☐ Open Flow OIL TEST ☐ Flow ☐ Pump

SHUT-IN PRESSURE Surface 750 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 3440 mcfpd Oil 339 bpd NGL _____ bpd Water 349 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_2S, ETC)
	0		0		
		SEE ATTACHED			

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 9/15/2016

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

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Office of Oil & Gas
SEP 16 2016

10/28/2016