

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

API 47-069-00179 County OHIO District LIBERTY  
Quad VALLEY GROVE Pad Name ALICE EDGE OHI Field/Pool Name PANHANDLE FIELD  
Farm name EDGE, ALICE MAE Well Number 205H  
Operator (as registered with the OOG) SWN PRODUCTION CO., 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 4436932.978 Easting 537476.887  
Landing Point of Curve Northing 4439276.815 Easting 537965.662  
Bottom Hole Northing 4441332.137 Easting 537050.904

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 08/28/2014 Date drilling commenced 09/26/2014 Date drilling ceased 10/16/2014  
Date completion activities began 07/20/2015 Date completion activities ceased 10/14/2015  
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 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

**APPROVED**

NAME: Jackie Shenton  
DATE: 9/22/16

Reviewed by:

SEP 16 2016  
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	26	20	120	N	94/J-55		3 BBLS TO SFC
Surface	17.5	13.375	635	N	54.5/J-55		3 BBLS TO SFC
Coal	SEE SURFACE						
Intermediate 1	12.250	9.625	2090	N	40/J-55		39 BBLS TO SFC
Intermediate 2							
Intermediate 3							
Production	8.75/8.5	5.5	14515	N	20/P-110		N
Tubing		2.375	7005	N	4.7/P-110		NA
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	A		15.6			GTS	GTS
Surface	A	610	15.6	1.2	732	7.6	8
Coal	SEE SURFACE						
Intermediate 1	A	805	15.6	1.19	958	7.3	8
Intermediate 2							
Intermediate 3							
Production	A	3259	15.6	1.31/1.19			24
Tubing		948/887					

Drillers TD (ft) 14515      Loggers TD (ft) 14515  
 Deepest formation penetrated MARCELLUS      Plug back to (ft) NA  
 Plug back procedure NA

Kick off depth (ft) 6160

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 will be run with a centralizer at a minimum of 1 per every 3 joints 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 \_\_\_\_\_

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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.

Department of  
Protection  
2016

10/28/2016

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Well number 205H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>MARCELLUS</u>	<u>7264</u>	<u>TVD</u>	<u>14338</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 NA hrs

OPEN FLOW Gas 1210 mcfpd Oil 6 bpd NGL \_\_\_\_\_ bpd Water 12 bpd  
 GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	<u>0</u>		<u>0</u>		
			<u>SEE</u>	<u>ATTACHED</u>	

Please insert additional pages as applicable.

Drilling Contractor NOMAC DRILLING  
 Address 3400 South Radio Road El Reno, OK 73036 City EL RENO State OK Zip 73036

Logging Company NINE ENERGY SERVICES  
 Address 8685 State Hwy 21 E, Bryan, TX 77808 City BRYAN State TX Zip 77808

Cementing Company SCHLUMBERGER WELL SERVICES  
 Address 1121 Buschong St, Houston, TX 77039 City HOUSTON State TX Zip 77039

Stimulating Company DOWELL SCHLUMBERGER  
 Address 1121 Buschong St, Houston, TX 77039 City HOUSTON State TX Zip 77039

Please insert additional pages as applicable.

Completed by SHELLY BOWEN Telephone 832-796-6237  
 Signature *Shelly Bowen* Title SR. STAFF REGULATORY Date 9/15/16 Part of Section

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

10/28/2016