

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

API 47 - 069 - 00186 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 10H
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 4438940.392 Easting 537472.247
Landing Point of Curve Northing 4438826.110 Easting 537881.067
Bottom Hole Northing 4435389.895 Easting 539147.940

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 11/20/2014 Date drilling commenced 04/08/2015 Date drilling ceased 06/02/2015
Date completion activities began 08/10/2015 Date completion activities ceased 08/23/2015
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

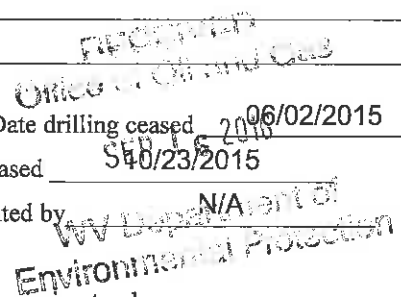
Is coal being mined in area (Y/N) Y

APPROVED

NAME: Jackie Shonta
DATE: 9/22/16

Reviewed by:

10/28/2016



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CASING STRINGS	Hoie Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	24	20	126'	N	J-55/ 94#		Y
Surface	17.5	13.375	671'	N	J-55/ 54.50#		Y, 28 BBL RETURN
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	2134'	N	J-55/ 40#		Y, 44 BBL RETURN
Intermediate 2							
Intermediate 3							
Production	8.75 TO 8.50	5.5	19220'	N	HCP-110/ 23#		Y
Tubing		2.375	6848'	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	1.19		SURFACE	24
Surface	A	579	15.6	1.19	687	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	D901	793	15.6	1.19	944	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	A	960/2886	15.6	1.20/1.19	1152/3434	SURFACE	24
Tubing							

Drillers TD (ft) 19,220 Loggers TD (ft) 19,220
 Deepest formation penetrated MARCELLUS Plug back to (ft) NA
 Plug back procedure NA

Kick off depth (ft) 5876'

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 SEP 29 2016

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 _____

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>MARCELLUS</u>	<u>6415.20</u>	<u>TVD</u>	<u>6840.09</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 1450 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 5473 MCFD mcfpd Oil 369 BBL bpd NGL _____ bpd Water 479 BBL 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 ₂ 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 ATTACHED</u>			

Please insert additional pages as applicable.

Drilling Contractor SWN DRILLING COMPANY
Address P.O. BOX 672625 City HOUSTON State TX Zip 77267

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 *Elizabeth GEE* Title REGULATORY ANALYST Date 01/15/2016

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

10/28/2016