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

API	<sub>47 -</sub> 069	_ 00180	County OHIO		I	District LIBER	XTY			
	VALLEY GF	ROVE	_					DHANDLI	E FIELD	)
		ALICE MAE			,	Well Number	ALICE	EDGE	OHI 3	H
Opera	itor (as register	ed with the OO	3) SWN PRODUCTIO	ON COMPA	ANY LLC					
Addre	ess P.O. BOX	( 12359	City SPR			State TX		Zip	77391	-2359
	-	Top hole int of Curve sottom Hole	Northing 4438947.520 Northing 4439089.837 Northing 4441755.916	d plat, profile	e view, and Easti Easti Easti	deviation surv ng 537467.805 ng 537403.955 ng 536186.648	ey		ECino.	
Eleva	tion (II)	a. GL	Type of Well	inew ⊔ E2	asung	Type of Re	port 🖽	ınterim	<b>≡</b> rina.	i
Permi	it Type 🗆 I	Deviated	Horizontal   Horizont	al6A □	Vertical	Depth Typ	e 🗆	Deep		Shallow
Туре	of Operation	□ Convert □	Deepen	Plug Back	□ Redrill	ing □ Rew	ork 🖪	Stimula	te	
Well	Type □Brine	Disposal   CB	M ■ Gas □ Oil □ Seco	ondary Reco	very 🗆 Sol	lution Mining	□ Stora	ge □ O	ther	
Drille Drillin	d with □ Cab  ng Media Sun  ction hole ■  Type(s) and A	ole Rotary  rface hole A	ultiple Fluids Produc ir □ Mud ■Fresh Wat □ Fresh Water □ Brine	er Inte		□ NGL ■ 0		Other	Vater	□ Brine
Date 1	permit issued	09/23/2014	Date drilling comm	enced 10	0/02/2014	Date dri	lling cea	sed '	12/19/	2014
•		ivities began	00/04/0045		letion activ	rities ceased _	441	10/201		
	al plugging (Y/		Date permission granted		/A	Granted by		N/A		_
Fresh Salt w	water depth(s) water depth(s) fdepth(s) ft	<b>ft</b>	submit a plugging applica  200'  732'  582'	Open mines	(s) (Y/N) de countered (Y	epths	SEP 1	6 2018		: : : :
AM	E: Gaisa	ualm I	honton							2016

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\_Well number\_ALICE EDGE OHI 3H Farm name\_EDGE, ALICE MAE API 47-069 00180 **CASING** Hole Casing New or Grade Basket Did cement circulate (Y/N) **STRINGS** Size Size Depth Used wt/ft Depth(s) \* Provide details below\* Conductor 26 20 120<sup>1</sup> Ν J-55/ 94# Υ Surface J-55/ 54.50# Y, 34 BBLS TO SURFACE 17.5 13.375 619" N Coa! SEE SURFACE Intermediate 1 12.25 9.625 2092' N J-55/40# Y, 35 BBLS TO SURFACE Intermediate 2 Intermediate 3 Production 8.75 TO 8.50 5.5 16440' N P-110/20# Y, 20 BBLS TO SURFACE Tubing 2.375 6721' N P-110/4.70# N Packer type and depth set N/A Comment Details CEMENT Class/Type Number Slurry Yield Volume Cement WOC ( ft <sup>3</sup>/sks)  $(ft^{\frac{3}{2}})$ DATA of Cement of Sacks Top (MD) (hrs) wt (ppg) Conductor **GROUT** 15.6 1.20 **SURFACE** 24 Α Surface Α 590 15.6 1.20 708 SURFACE 8 Coal SEE SURFACE Intermediate 1 822 15.6 1.19 978.18 SURFACE 8 Intermediate 2 Intermediate 3 Production 905/2400 1.31/1.19 SURFACE 24 Α 15.3/15.6 11858.55/2855 Tubing Drillers TD (ft) 16440' Loggers TD (ft) 16440' Deepest formation penetrated MARCELLUS Plug back to (ft) NA Plug back procedure NA Kick off depth (ft) 5720' Check all wireline logs run aliper caliper **■** density ■ deviated/directional □ induction neutron ■ resistivity gamma ray temperature □sonic Well cored □ Yes ■ No Conventional Were cuttings collected ■ Yes □ No Sidewall 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 DETAILS □ Yes ■ No WAS WELL COMPLETED OPEN HOLE? DETAILS □ Yes ■ No WERE TRACERS USED □ Yes ■ No TYPE OF TRACER(S) USED \_\_\_\_

API 47-069 \_ 00180

Farm name\_EDGE, ALICE MAE

\_\_Well number\_ALICE EDGE OHI 3H

## PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
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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 (bbis)	Amount of Nitrogen/other (units)
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Please insert additional pages as applicable.

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API 47- 069 00180 Farm					n name EDGE, ALICE MAE						_Well number_ALICE EDGE OHI 3H				
PRODUCING FORMATION(S)					ГНS										
MARCELLUS				6390.	72'	TVD	661	12.09'		MD					
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Please insert ad	lditional nag	res as a	— policable	_		-									
GAS TEST	. ~		• •	□ Op	en Flow		OII	L TES	ST 🗆 I	Flow [	□ Pump				
SHUT-IN PRE											_	F TEST	hr	S	
OPEN FLOW	Gas		Oil 359		NGL		Wa	ater		GAS N	ÆASU	RED BY	•		
LITHOLOGY/	TOP		воттом		TOP	вотт	OM								
FORMATION	DEPTH IN	FT D	EPTH IN FT	DEP	TH IN FT	DEPTH 2	ON FT	DES	CRIBE I	ROCK TY	PE AND	RECORD (	QUANTITYANI	)	
	NAME TV	'D	TVD	1	MD	MD	) ————————————————————————————————————	TYP	E OF FL	UID (FRE	SHWAT	ER, BRINE	E, OIL, GAS, H2S	l, ETC)	
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Drilling Contra															
Address 3400 S	OUTH RADIO	ROAD		_	City	EL REN	0			State	OK	Zip _ <sup>73</sup>	3036		
Logging Compa	any NINE EI	NERGY	SERVICES	3											
Address 16945					City	HOUST	ON			State	TX	Zip 7	706C		
									•			r			
Cementing Con Address 110 SC					Oite	SUGAR				O	TY	G: 7	7.17Q		
Address 11000	TEOMBEROE		-		City	JOGAIN	EVIAN			_ State		Zip _7	1476		
Stimulating Con			SCHLUMBE	RGE	₹										
Address 1121 B	City	HOUST	ON.			State	TX	Zip.7	7039						
Please insert ad	ditional pag	es as a	oplicable.								( )	Fift De Co	7039	(100	
Completed by	ELIZABETH	CEE	- A					Tele	phone	832-796	-7632	1 21	47	Gid3	
Signature	AR				Title S	R. REGUL	ATORY	ANA	LYST		Date _/	11312	0/6/2016	_	
Submittal of Hy	draulic Fra	cturino	Chemical 1	Disclo	sure Info	rmation	Δ÷	tach 4	conv o	f FR ACE	ACTIS	Registro	artment	∩f.	
		/ <u>-</u>		- 10010	111(0)		Al	UII (	ору О.	LIWICI	Er .	Little 1	10/28/2	OI.	
													10/28/2	2016	