10/28/2016

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

API <u>47</u> 069	_00178	County OHIO		District LIBERTY			
Quad VALLEY GRO	OVE	Pad Name ALICE					
Farm name EDGE, A	LICE MAE		-	Well Number 5H			
Operator (as registered	with the OOC	SWN PRODUCTION	N CO., LLC				
Address P.O. BOX 1		City SPR		State TX	Zip 77391-2359		
	NAD 83/UTM Top hole t of Curve	Attach an as-drilled Northing 4438936.564 Northing 4439279.653	plat, profile vie	Easting 537474.593 Easting 537706.239			
-		Northing 4441229.161		Easting 536778.413			
Elevation (ft) 1199' Permit Type De Type of Operation	viated 🗆 F	Type of Well Horizontal Horizont	al 6A 🗆 Verti		t □Interim ■Final □ Deep ■ Shallow ■ Stimulate		
				•			
Well Type Brine D	isposal □ CBI	M ■ Gas □ Oil □ Seco	ndary Recovery	□ Solution Mining □ S	torage Other		
Type of Completion Drilled with \Box Cable	_	ıltiple Fluids Produc	ed ∄Brine ▮	Gas □ NGL ■ Oil	□ Other		
	r ≝ Mud	r □ Mud ■Fresh Wat □ Fresh Water □ Brine	r Intermed	diate hole ■ Air □ Mu	d ■ Fresh Water □ Brine		
Date permit issued		Date drilling comm 07/19/2015 Date permission granted	Date completio	on activities ceased			
Please note: Operator	is required to s	ubmit a plugging applica	ion within 5 day	s of verbal permission to	plug		
Freshwater depth(s) ft Salt water depth(s) ft		394 732	Open mine(s) (Y Void(s) encount	(/N) depthsered (Y/N) depths	N. S. Sac		
Coal depth(s) ft		102	Cavern(s) encou	intered (Y/N) depths	N 2016 -		
Is coal being mined in	area (Y/N)	ED			Reviewed by:		

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API 47- 069	00178	Farm na	_{ame_} EDGE, A	ALICE MAI	E	We	ell number_5	H	
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		ent circulate (Y/N) e details below*
Conductor	24	20	120	N		/J-55		1	Y
Surface	17.5	13.375	630	N N	-	5/J-55			Y
Coal	SEE SURFACE				 				
Intermediate 1	12.250	9.625	2098	N	40	/J-55	1		Y
Intermediate 2	12200	0.020		- 1	1 10	70-00			
Intermediate 3					 		C.	-	
Production	8.75/8.5	5.5	14562	N.	201	D 446	<u> </u>	1	h1
Tubing	0.70/0.0	-	_	N	+	P-1/16		19	N
Packer type and d	enth set	2.375	7107	N	4.77	P-110	<u> </u>		NA
Comment Details									
CEMENT DATA	Class/Type of Cement	Numbe of Sack			Yield ft ³/sks)	Volum (ft ³)		nent (MD)	WOC (hrs)
Conductor	Α		15.6	8			G	TS	GTS
Surface	Α	623	15.6	ô	1.2	748	7	.4	8
Coal	SEE SURFAC	E	Ø1	!					
Intermediate 1	A	818	15.7	7	1.19	973	6.8		8
Intermediate 2		10	5						
Intermediate 3				11					***
Production	Α		15.3/1	5.6 1.3	30/1.19		6	70	24
Tubing								ii)	
Plug back pro	tion penetrated cedure NA	MARCELLUS		Loggers T					
Kick off depth Check all wire	, ,	■ caliper ■ neutron	density		ted/direction		induction temperature	□sonic	
Well cored	Yes 📕 No	Convention	nal Side	wall	W	ere cutting	gs collected	□ Yes ■	No
DESCRIBE T	HE CENTRALI an with a centralizer at a mini	ZER PLACEME	ENT USED FO	OR EACH C	ASING ST	TRING _			
WAS WELL O	COMPLETED A	S SHOT HOLE	□ Yes 🖪	No D	ETAILS	, j	- depille		
WAS WELL O	COMPLETED C	PEN HOLE?	□ Yes ■ N	o DET	AILS _		SEP I	s 2016	
WERE TRAC	ERS USED 🗆	Yes No	TYPE OF T	RACER(S)	USED				oí
							wormio, n	웹 Hoje 10) 0/28/2016

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API 47- 069 00178 Farm name EDGE, ALICE MAE	Weil number 5H
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PERFORATION RECORD

Perforation date	Perforated from MD ft	Perforated to MD ft.	Number of Perforations	Formation(s)
<u> </u>		SEE	ATTACHE	
-				
				- TALLE
-		_		
	-			
		 		
		· · · · · · · · · · · · · · · · · · ·		
				-
	Perforation date	Perforated from MD ft.	Perforation date MD ft. MD ft.	Perforation date MD ft. MD ft. Perforations

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
	1		SEE ATTACHE			110,55411	114602 (5515)	THE SOLD CALLET CALLED
						N.E.	-	
							2	
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			<u> </u>		1	-6	SEP 1 6 20	1.0

Please insert additional pages as applicable.

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API 47- 069	00178	Fa	_{rm name} EDGE,	ALICE N	/IAE		Well number_5H	
PRODUCING	FORMATIO	ON(S)	DEPTHS					
MARCELLUS			5566	TVD	14543		MD	
							_	
					···			
Please insert ac	lditional pag	es as applicabl	e.					
GAS TEST	□ Build up	□ Drawdow	n □ Open Flow		OIL TE	EST □	Flow □ Pump	
SHUT-IN PRE	SSURE S	Surface 1600	psi Botte	om Hole_		psi	DURATION OF TEST	hrs
OPEN FLOW	Gas 4117	Oil mcfpd 337	NGL bpd	_ bpd	Water 405		GAS MEASURED BY ■ Estimated □ Orifice	□ Pilot
LITHOLOGY/	TOP	BOTTON	f TOP	вотто	M			
FORMATION	DEPTH IN I		FT DEPTH IN FT MD	DEPTH II MD			ROCK TYPE AND RECORD QUA	
	0	D IVD	0	MID		FE OF FE	LUID (FRESHWATER, BRINE, OI	L, GAS, H2S, ETC;
			SEE	ATTACH	ED			
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		ia.		<u> </u>				
	<u> </u>		-					
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				İ				
Please insert ad	lditional pag	es as applicable	€.					
Drilling Contra			70000				01/	
Address 3400 S	outh Radio Ro	ad El Reno, OK	73036 City	EL RENC			State OK Zip _7303	<u> </u>
Logging Comp								_
Address 8885 S	tate Hwy 21 E,	Bryan, TX 77808	City	BRYAN			State TX Zip 7780	8
			ILFIELD SERVICE		_			
Address 1121 B	uschong St, Ho	ouston, TX 77039	City	HOUSTO	-N		StateTX Zip _7703	9
			OILFIELD SERVIO		_			
Address 1121 B				HOUSTO	N		StateZip7703	
Please insert ad	iditional pag	es as applicable	⊋.				Ones Tompa	Gas
Completed by	SHELLY BO	OWEN					832-796-6237 1 3 2016	
Signature	welle	Brun	Title S	R. STAFF F	REGULATO	DRY	Date 9/157/16	<u> </u>
Submittal of Hy	ydraulic Frac	turing Chemic	al Disclosure Info	rmation	Attach	і сору о	FERACFOCUS Registry	of
							Constitution of the state of th	10/28/2016