## 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 _ 00188	County OHIO		District LIBERT	1	
Quad VALLEY GROVE		N DIDRIKSEN-OHI-PAD			LE
Farm name GLENN DIDRIKSEN			Well Number G		
Operator (as registered with the OOG	SWN PRODUCTION	ON COMPANY LL	c —		<u> </u>
Address P.O. BOX 12359	City SPI		State TX	Zip	77391-2359
As Drilled location NAD 83/UTM Top hole Landing Point of Curve Bottom Hole  Elevation (ft) 1382.2 GL  Permit Type   Deviated	Attach an as-drille Northing 4440482.184 Northing 4440190.645 Northing 4438569.864  Type of Well Iorizontal Horizon Deepen Drill  Gas Oil Securitiple Fluids Produ	ed plat, profile view, a  Ea  Ea  Ea  New   Existing  Ital 6A   Vertical  Plug Back   Red  condary Recovery   Ea  Condary Recovery   Ea	nd deviation survey asting 534509.575 sting 534316.490 sting 535308.220  Type of Repo Depth Type rilling □ Rework Solution Mining □ S	rt □Interim □ Deep ■ Stimula Storage □ O	Final Shallow ste
Please note: Operator is required to s  Freshwater depth(s) ft	Date drilling community 10/21/2015  Date permission granted ubmit a plugging application 232'	Date completion ac	ctivities ceased Granted by  Verbal permission to depths	11/22/201 N/A	
Batt Water depair(3) It	63'			N N	
Is coal being mined in area (YAR)	N	Cavern(s) encounter	ed (Y/N) depths : "		2.442

WR-35 Rev. 8/23/13

Farm name GLENN DIDRIKSEN API 47-069 Well number\_GLENN DIDRIKSEN OHI 6 00188 **CASING** Hole Casing New or Grade Basket Did cement circulate (Y/N) STRINGS Size Size Depth Useá wt/ft Depth(s) \* Provide details below\* Conductor 24 20 126' Ν J-55/94# Υ Surface 17.5 13.375 755' N H-40/48# Υ Coal SEE SURFACE Intermediate 1 12.25 9.625 2330' N J-55/ 36# Y Intermediate 2 Intermediate 3 Production 8.75 TO 8.50 5.5 131391 N HCP-110/20# Tubing 2.375 6724' Ν P-110/4.70# N Packer type and depth set N/A Comment Details CEMENT Class/Type Number Yield Slurry Volume Cement WOC ( ft 3/sks) DATA of Cement of Sacks wt (ppg)  $(ft^{\frac{3}{2}})$ Top (MD) (hrs) Conductor Α 24 GROUT TO SURFACE 15.6 1.18 28 24 Surface Α 800 15.6 1.19 952 SURFACE 8 Coal SEE SURFACE Intermediate 1 868 15.6 1,19 1032.92 SURFACE 8 Intermediate 2 Intermediate 3 Production Α 1002/1570 SURFACE 15.6 1.24/1.19 1242/1868 24 Tubing Drillers TD (ft) 13139 Loggers TD (ft) 13139' Deepest formation penetrated MARCELLUS Plug back to (ft) NA Plug back procedure NA Kick off depth (ft) 5894' Check all wireline logs run aliper = ■ 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 DETAILS □ Yes No SEP 1 6 2016 WAS WELL COMPLETED OPEN HOLE? DETAILS □ Yes ■ No WV Long. St. St. M WERE TRACERS USED - Yes No TYPE OF TRACER(S) USED \_\_\_\_

API 47-069 \_ 00188

Farm name GLENN DIDRIKSEN

\_Well number\_\_\_\_\_OLENN DIDRIKSEN OHI 6

## PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE	ATTACHED			
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	4.				-
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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 (bbls)	Amount of Nitrogen/other (units)
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Please insert additional pages as applicable.

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WR-35 Rev. 8/23/13

API 47- 069 00188		Farn	Farm name GLENN DIDRIKSEN							Well number GLENN DIDRIKSEN OHI				
PRODUCING	FORMAT	ION(S	)	DEP	<u>rhs</u>									
MARCELLUS			6393'		TVD	6666'		MD						
Please insert ac	dditional pa	iges as	applicable.							=======================================				
GAS TEST	□ Build up	p 🗆 ]	Drawdown	□ Op	en Flow		OIL	TEST	· o F	low ı	⊐ Pump	)		
SHUT-IN PRE	ESSURE	Surfac	ce 1947	psi	Botto	om Hole_		p:	sī	DURA	TION (	OF TES	ST	_ hrs
OPEN FLOW	Gas 2471	mcfp	Oil d <u>220</u>	bpd	NGL		Wa 101		opd	GAS I				lot
LITHOLOGY/ FORMATION	TOP DEPTH IN		BOTTOM DEPTH IN FT		TOP TH IN FT	BOTTO DEPTH I		DESCE	NBE F	OCK TY	PE AND	RECOR	D QUANTITY	/AND
	NAMET	VD	TVD	4	MD	MD							INE, OIL, GAS	
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Please insert ad	⊥ Iditional pa	ges as	applicable.	4										-
Drilling Contra	ictor SWN I	DRILLI	NG COMPA	NY										
Address PO BO					City	SPRING				_ State	TX	Zip	77391-2359	)
Logging Comp	any JW WII	RELIN	E COMPAN'	Y										
Address 515 N					City	HOUSTO	N	_		State	TX	Zip	77060	
Cementing Con	nnany SCH	{LUMB	ERGER							_		_ •		
Address 119 SC					City	SUGAR !	- -AND			State	TX	Zip	774 <b>7</b> 8	
Stimulating Co.			. SCHLUMB	ERGER		1011070				_	TV		-	
Address 1121 B Please insert ad	_		annlicable		City	HOUSTO				_ State	TX	Zip	77039	
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	ELIZABET	H GEE			mist - Pi	R. REGULA	 \TODV			832-796		244100	10 01	1
Signature					TITLE S	A. REGULF	TON	ANALY	31		Date _0	2/11/20	10-1	गिविद
Submittal of Hy	ydraulic Fra	acturin	g Chemical	Disclo	sure Info	rmation	Att	ach co	py of	FRACI	OCUS	Regist	try	