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

API 47 069 002	69 County OHIO		District LIBERTY	1	
Quad VALLEY GROVE	Pad Name OCC	A OHI PAD	Field/Pool Name		DLE
	MMISSIONERS OF OHIO		Well Number O	CC A OHI 4	105H
Operator (as registered with th	e OOG) SWN PRODUCTI	ON COMPANY, LL	.C		1-1-1-1-1
Address PO BOX 12359	City SP	RING	State TX	Zip	77391-2359
As Drilled location NAD 83		ed plat, profile view, a	and deviation survey		
Landing Point of Cur			sting 534,865.10		
Bottom Ho			sting 533,876.48		
Type of Completion ■ Single Drilled with □ Cable ■ Re	☐ Horizontal	a Plug Back □ Red condary Recovery □ nced □ Brine ■Ga nter Intermediate	s □ NGL □ Oil	□ Deep Stimula Storage □ C	■ Shallow ate
Date permit issued04/04/	Date drining com	menced04/05/20	18 Date drillin	5 ccascu	05/27/2018
Date completion activities beg		_ Date completion ac	ctivities ceased	11/12/201	
Verbal plugging (Y/N)	Date permission grante	dN/A	Granted by	N/A	
Please note: Operator is requi	red to submit a plugging applic	ation within 5 days of	verbal permission to	plug.	JAN 3.1
Freshwater depth(s) ft	432'	Open mine(s) (Y/N)	depths	N	Environ Day
Salt water depth(s) ft	586'	Void(s) encountered		N	Shvirenta Par
Coal depth(s) ft	500'	Cavern(s) encounter		1	V
ls coal being mined in area (Y)			, v 1/10 10 0	Revie	ewed by:

WR-35 Rev. 8/23/13 Page 2 of 4

API 47-069	_ 00269	Farm name_BC	OARD OF COMMIS	SSIONERS	OF OHIO COUNTY W	ell number O	CC A OHI 40)5H
CASING STRINGS	Hole Size	Casing Size D		ew or Jsed	Grade wt/ft	Basket Depth(s)	Did cement ci	
Conductor	24		<u> </u>	NEW	J-55/94#			Υ
Surface	17.5	13.375 5	49'	NEW	J-55/54.50#	436.7'	Y, 2	8 BBLS
Coal	SEE SURFACE	······································			-	1	1	
Intermediate 1	12.25	9.625 1,8	860' 1	NEW	J-55/36#	1	Y, 4	0 BBLS
Intermediate 2					-			
Intermediate 3								
Production	8.75/8.50	5.5 15.	,248'	NEW	HCP-110/20#		Y, 10	D BBLS
Tubing				NEW	P-110/4.7#			N
Packer type and d	epth set	<u> </u>	<u> </u>					
Comment Details	Tho 5 %" and 9 5/8" cas	ung sinngs were both cut out and have a	an overshot casing patc	th noar surface.	The patches successfully ho	id strong throughout the co	implation and fracture sti	nutation of the well.
CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry		eld Volur /sks) (ft ²			WOC (hrs)
Conductor	CLASS A	GROUT TO SURFACE	wt (ppg)	(n	7585) (1[-	SURF		24
Surface	CLASS A	483	15.60	1.	20 579			8
Coal	SEE SURFAC			 				
Intermediate I	CLASS A	705	15.60	1.	19 838.	95 SURF	ACE	8
Intermediate 2		100		<u> </u>	1000			
Intermediate 3								
Production	CLASS A	2,815	15.60	1.	19 3,349	.85 SURI	FACE	24
Tubing			_	<u> </u>				
Drillers TD (fi Deepest forma Plug back pro	ation penetrated ocedure <u>N/A</u>	MARCELLUS			O (ft) 15,248' O (ft) N/A			
Check all wire	eline logs run	-	•	deviate gamma		□ induction E temperature	□sonic	
Well cored	Yes A No	Conventional	Sidewall		Were cutti	ngs collected	□ Yes ■ No	o
DESCRIBE T	HE CENTRALI	ZER PLACEMENT U	SED FOR E	ACH CA	SING STRING			
SURFACE: 7 CENTE	RALIZERS - EVERY THIS	RD JOINT OF CASING						
		RY THIRD JOINT OF CASING						
PRODUCTION: 181	CENTRALIZERS - EVE	RY THIRD JOINT FROM SURFACE	E TO TOP OF CURV	/E, THEN EV	ERY JOINT UNTIL TO		Office P	OF OFFICED
WAS WELL	COMPLETED A	AS SHOT HOLE o	Yes A No	DE	TAILS		JAN	RECEIVED OF Oil and Gas
WAS WELL	COMPLETED (OPEN HOLE? □ Ye	s 🖪 No	DETA	ILS		- ivironment	1 2019
WERE TRAC	ERS USED 🗆	Yes • No TYI	PE OF TRAC	ER(S) U	SED			

	_	_
Page	3	of ⁴

API	47- 069 _	00269	Farm name	BOARD OF COMMISSIONERS OF OHIO COUNTY	Well number OCC A OHI 405H
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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE	ATTACHMENT	1		
			.		

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	ATTACHMENT		()	Troppant (100)		
					_			
								<u></u>
						ļ <u> </u>		
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							, ,	Tice of Oil As
							J	FICE OF OIL AND GAS
			-					
							Environ	Department or mental protection
						L		aufal bant of

Please insert additional pages as applicable.

Page 4 of 4

RODUCING	FORMATION(<u>S)</u>	DEPTHS						
MARCELLUS			6,229'	TVD	7.096'	MD			
				_					
		_		-					
lease insert ad	Iditional pages a	as applicable.							
AS TEST	□ Build up □	Drawdown	□ Open Flow		OIL TEST 🗆 I	Flow [Pump		
HUT-IN PRE	SSURE Surf	face 1,631	_psi Botto	m Hole_	psi	DURAT	TON O	F TEST	hrs
PEN FLOW	Gas 5,461 mc1	Oil fpd <u>749</u> i	NGL opd		Water 540 bpd			RED BY	
THOLOGY/ DRMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN MD	FT DESCRIBE I				UANTITYAND OIL, GAS, H ₂ S, ETC)
	0		0						
	SEE	ATTACHMENT	3						
	/ ===								
		1 = 7							
		1							
ease insert ac	lditional pages a	as applicable.							
rilling Contra	actor SWN DRIL	LING COMPAN							
ddress PO BC	X 12359		City	SPRING		State	TX	_ Zip _77	391-2359
	any BAKER HU	IGHES					T 11		2070
ogging Comp		LD.	City	HOUSTO	V	State	TX	Zip _77	Off RECEIVE
ddress 17021	ALDINE WESTFIE						18/1/2	26	Office of Oil and
ddress 17021	mpany SCHLUN	MBERGER WEL		WESTON		0			14UZ 1111 A
ddress 17021	mpany SCHLUN US HWY 33 EAST		City	WESTON		State	WV	Zip _26	0.1 20
ementing Conditions 1080 Unional Conditions 1080 Union Union Conditions 1080 Union Union Conditions 1080 Union Union Conditions 1080 Union Unio Unio	mpany SCHLUN 33 EAST mpany SWN V	MBERGER WEL	City			7			- 11 0.1 20
ementing Conddress 1080 Unimulating Coddress PO BC	mpany SCHLUN 33 EAST mpany SWN V	WELL SERVICE	City	WESTON		State	TX		W Department 391-2959 mental Prote
ementing Conddress 1080 Unimulating Coddress PO BC	mpany SCHLUN JS HWY 33 EAST Impany SWN V DX 12359 Idditional pages a	WELL SERVICE	City		Telephone	State	TX		0.1 20

OCC A OHI 405H ATTACHMENT 1 PERF REPORT

PERF REPORT									
STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG					
1	9/6/2018	15,141	15,043	36					
2	9/26/2018	15,008	14,898	42					
3	9/27/2018	14,864	14,754	42					
4	9/28/2018	14,720	14,610	42					
5	9/28/2018	14,576	14,466	42					
6	9/29/2018	14,432	14,322	42					
7	9/29/2018	14,288	14,174	42					
8	9/30/2018	14,144	14,034	42					
9	9/30/2018	14,000	13,887	42					
10	10/1/2018	13,859	13,746	42					
11	10/1/2018	13,712	13,602	42					
12	10/2/2018	13,568	13,458	42					
13	10/3/2018	13,424	13,314	42					
14	10/3/2018	13,280	13,170	42					
15	10/4/2018	13,136	13,026	42					
16	10/4/2018	12,992	12,882	42					
17	10/4/2018	12,848	12,738	42					
18	10/5/2018	12,704	12,594	42					
19	10/5/2018	12,560	12,450	42					
20	10/6/2018	12,416	12,306	42					
21	10/7/2018	12,272	12,162	42					
22	10/7/2018	12,128	12,018	42					
23	10/8/2018	11,984	11,874						
24	10/8/2018	11,837	11,730						
25	10/9/2018	11,696	11,586						
26		11,552	11,442						
27		11,408							
	10/11/2018	11,264							
	10/11/2018	11,120	11,010						
	10/12/2018	10,976	10,866						
	10/13/2018	10,832	10,722						
	10/13/2018	10,688							
	10/13/2018	10,547	10,434						
	10/14/2018	10,400							
	10/14/2018	10,256							
	10/15/2018	10,112	10,004						
	10/16/2018	9,968							
	10/17/2018	9,824							
	10/17/2018	9,680							
	12/30/2018	9,531	9,426	En					
	10/18/2018	9,392	9,286						
		5,552	5,200	-					

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OCC A OHI 405H ATTACHMENT 1 PERF REPORT

			77.71	
STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
43	10/19/2018	9,104	8,994	42
44	10/19/2018	8,960	8,850	42
45	10/19/2018	8,816	8,706	42
46	10/19/2018	8,672	8,562	42
47	10/22/2018	8,528	8,418	42
48	10/22/2018	8,384	8,276	42
49	10/23/2018	8,240	8,130	42
50	10/24/2018	8,096	7,986	42
51	10/25/2018	7,952	7,842	42
52	10/26/2018	7,802	7,698	42
53	10/26/2018	7,664	7,554	42
54	10/27/2018	7,520	7,410	42
55	10/27/2018	7,376	7,266	42
56	10/28/2018	7,232	7,122	42

Office of Oil and Gas

JAN 3.1 2019

WV Department of Environmental Protection

OCC A OHI 405H ATTACHMENT 2 STIM REPORT

				STIM REPORT				
. Charles			Ave	Max			Amount of	Amount of
	Stim Date		reatment			Proppant (lbs)		nitrogen/othe
1	9/26/2018		7,950	8,050		281,004	5,172	0
2	9/27/2018		7,093	8,364	4,477	284,358	5,034	0
3	9/27/2018		8,123	5,231	4,856	280,530	4,465	0
4	9/28/2018		8,296	4,917	3,907	278,478	4,270	0
5	9/29/2018		8,420	5,304	4,322	281,522	4,207	0
6	9/29/2018		8,127	6,301	4,884	280,192	3,890	0
7	9/30/2018		8,175	5,285		282,092	3,952	0
8	9/30/2018		8,375	5,861	4,141	249,770	3,914	0
9	10/1/2018		8,460	3,240		279,670	4,000	0
10	10/1/2018		8,227	4,477	4,857	281,710	3,712	0
11	10/1/2018		8,457	5,184	4,236	269,261	3,704	0
12	10/3/2018		7,758	5,074	4,671	283,030	5,320	0
13	10/3/2018		6,718	5,710		288,780	5,387	0
14	10/4/2018		7,978	5,956		279,920	4,109	0
15	10/4/2018		7,541	6,049	4,525	276,600	3,507	0
16	10/4/2018		7,562	6,001	4,251	279,590	3,817	0
17	10/5/2018		7,121	6,058		275,180	4,966	0
18	10/5/2018		7,223	6,114		280,740	4,170	0
19	10/6/2018		7,245	5,841	4,329	285,980	6,957	0
20	10/7/2018		7,723	6,245		281,060	4,571	0
21	10/7/2018		7,423	5,818		287,660	4,473	0
22	10/8/2018	100	7,710	6,113		282,220	5,008	0
23	10/8/2018		7,545	6,381	4,615	281,640	4,240	0
24	10/9/2018	100	7,912	2,853	4,512	281,700	4,712	0
25	10/10/2018	100	7,863	5,463	4,562	285,660	4,592	0
26	10/10/2018	99	7,852	5,889	4,863	281,360	4,418	0
27	10/11/2018	95	7,932	5,716	4,896	271,400	3,098	0
28	10/11/2018	98	7,458	6,331	5,236	281,260	3,820	0
29	10/12/2018	99	7,714	5,945	4,885	299,580	3,557	0
30	10/13/2018	95	7,654	6,149	4,840	284,580	3,252	0
31	10/13/2018	97	7,754	6,071	4,752	281,100	3,696	0
32	10/13/2018	100	7,532	5,903	4,867	277,640	4,004	0
33	10/14/2018	97	7,745	6,214	4,898	279,800	3,166	0
34	10/14/2018	100	7,811	5,986	4,756	281,680	3,861	0
35	10/15/2018	100	7,808	5,450	4,808	283,900	3,672	0
36	10/15/2018	99	7,810	5,912	4,769	279,140	2,991	0
37	10/17/2018	99	8,127	5,225	5,096	287,260	3,273	0
38	10/17/2018	98	7,856	3,671	5,191	285,480	3,384	0
39	10/17/2018	97	7,638	4,540	4,954	279,160	3,303	0
40	10/18/2018	99	7,332	4,682	4,963	275,360	3,325	0
41	10/18/2018	98	7,550	5,434	5,063	282,290	3,623	0
42	10/18/2018	94	7,650	5,725	5,225	274,330	3,539	0
43	10/19/2018	99	7,405	6,557		270,330	3,347	0
44	10/19/2018	98	7,485	6,020	4,763	269,170	3,249	0
45			7,625	6,313		275,960	3,137	0
46			7,432	4,652		266,040	3,187	Office of Oil and
47			7,387	4,608		265,830	3,480	on any
48			6,981	6,982		272,760	3,032	T 8 *
49			7,687	4,388		270,060	3 258	
50			7,650	4,905		273,050	3,495	VV Department ronmental Proj
51			7,775	4,987		273,420	3,008	onmental Proj
52			7,305	5,621		282,702	3,177	0
53			7,650			280,270		0

OCC A OHI 405H ATTACHMENT 2 STIM REPORT

4			Ave Pump	Ave	Max		Amount of	Amount of	Amount of
STAGE NUM		Stim Date	Rate (BPM)	Treatment	Breakdown	ISIP (PSI)	Proppant (lbs)	water bbis	nitrogen/othe
	54	10/27/2018	97	7,350	5,705	4,965	282,840	4,064	0
	55	10/28/2018	99	6,975	4,867	4,882	289,300	2,916	0
	56	10/29/2018	98	6,950	6,345	4,953	282,220	2,996	0

Office of Oil and Gas

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WV Department of Environmental Protection



Well Name: OCC A OHI 405H 47069002690000 Attachment 3

LITHOLOGY/FORMATION	TOP DEPTH, MD (FT)	TOP DEPTH, TVD (FT)	BOTTOM DEPTH, MD (FT)	BOTTOM DEPTH, TVD (FT)	QUANTITY AND TYPE OF FLUID
Base of Fresh Water	0.00	0.00	432.00	432.00	
Top of Salt Water	586.00	586.00	NA	NA	
Pittsburgh Coal	500.00	500.00	608.00	608.00	
Pottsville (ss)	608.00	608.00	928.00	928.00	
Raven Cliff (ss)	928.00	928.00	1342.00	1342.00	
Maxton (ss)	1342.00	1342.00	1649.00	1644.00	
Big Injun (ss)	1649.00	1644.00	2167.00	2161.00	
Berea (siltstone)	2167.00	2161.00	5730.00	5619.00	
Rhinestreet (shale)	6123.00	5643.00	6455.00	5911.00	
Cashaqua (shale)	6455.00	5911.00	6548.00	5977.00	
Middlesex (shale)	6548.00	5977.00	6670.00	6053.00	
Burket (shale)	6670.00	6053,00	6703.00	6072.00	
Tully (Is)	6703.00	6072.00	6762.00	6106.00	
Mahantango (shale)	6762.00	6106.00	7096.00	6229.00	
Marcellus (shale)	7096.00	6229.00	NA	NA	GAS

Office of Oil and Gas

JAN 3.1 2019

WW Department of Environmental Protection

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	9/26/2018
Job End Date:	10/29/2018
State:	West Virginia
County:	Ohio
API Number:	47-069-00269-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	OCC A OHI 405
Latitude:	40.07938723
Longitude:	-80.59803423
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,204
Total Base Water Volume (gal):	8,962,296
Total Base Non Water Volume:	0







Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS#)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
SCAL16486A	Nalco	Scale Inhibitor					
				Listed Below			
Econo-Cl200	SWN Well Services	Corrosion Inhibitor	Offic				
			RECENT RECENT PORTONIA AN 3-1	Listed Below			

BIOC11219A	Nalco	Biocide					
				Listed Below			
FLOJET DRP 1130X	SWN Well Services	Friction Reducer					
	1	1		Listed Below			
HCL	SWN Well Services	Solvent					
				Listed Below			
Sand	SWN Well Services	Proppant					
				Listed Below	-		
FLOJET DR 9000LPP	SWN Well Services	Friction Reducer					
				Listed Below			
Base Water	Operator	Base Fluid					
				Listed Below			
Ecopol-FEAC	SWN Well Services	Iron Control					
				Listed Below			
Items above are T	rade Names with th	ne exception of Base W	ater . Items below are the ind	vidual ingredients.			
			Water	7732-18-5	100.00000	81.26131	Density = 8.345
		Offi	Crystalline Silica, quartz	14808-60-7	100.00000	16.96126	
		AN AN	Water	7732-18-5	85.00000	1.43306	
	N Total	विक ६० ०ल	Hydrochloric Acid	7647-01-0	15.00000	0.24448	V-
		2019	Petroleum Distillates, Hydrotreated	64742-47-8	45.00000	0.04600	

Methonol	67-56-1	60.00000	0.01709	
Ethylene glycol	107-21-1	10.00000	0.01192	
Benzyl-(C12-C16 Alky)- Dimethyl-Ammonium	68424-85-1	30.00000	0.00854	
Acetic Acid	64-19-7	37.50000	0.00326	
Chloride Glutaraldehyde	111-30-8	10.00000	0.00285	
Alcohols, C12- C16,Ethoxylated propoxylated	68213-24-1	2.00000	0.00204	
Fatty alcohols ethoxylated	Proprietary	2.00000	0.00204	
Methanol	67-56-1	80.00000	0.00200	
Citric Acid	77-92-9	22.50000	0.00195	
Amine Triphosphate	Proprietary	30.00000	0.00170	
Oxyalkylated fatty acid	68951-67-7	9.67400	0.00024	
Fatty acids	61790-12-3	5.02700	0.00013	
Modified thiourea polymer	68527-49-1	4.74600	0.00012	
Potassium acetate	127-08-2	0.02200	0.00000	
Formaldehyde	50-00-0	0.00400	0.00000	

^{*} Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water ** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

^{***} If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line



SWN Production Company, LLC P O Box 12359 Spring, Texas 77391-2359 www.swn.com

Via Federal Express

January 30, 2019

State of West Virginia
Department of Environmental Protection
Office of Oil & Gas
601 57th Street
Charleston, WV 25304

RE: SWN Production Company, LLC

Operator ID: 494512924

Regulatory Filings: WR-34 and WR-35

To Whom It May Concern:

Please find enclosed forms WR-34 Discharge Monitoring Report and WR-35 Well Operator's Report of Well Work along with supporting documentation, for the wells listed below.

API	Well Name
47-069-00239	OCC A OHI 5H
47-069-00241	OCC A OHI 205H
47-069-00269	OCC A OHI 405H

If you have any questions or require additional information, please contact me via email at liz_gee@swn.com or telephone at (832) 796-7632.

Sincerely,

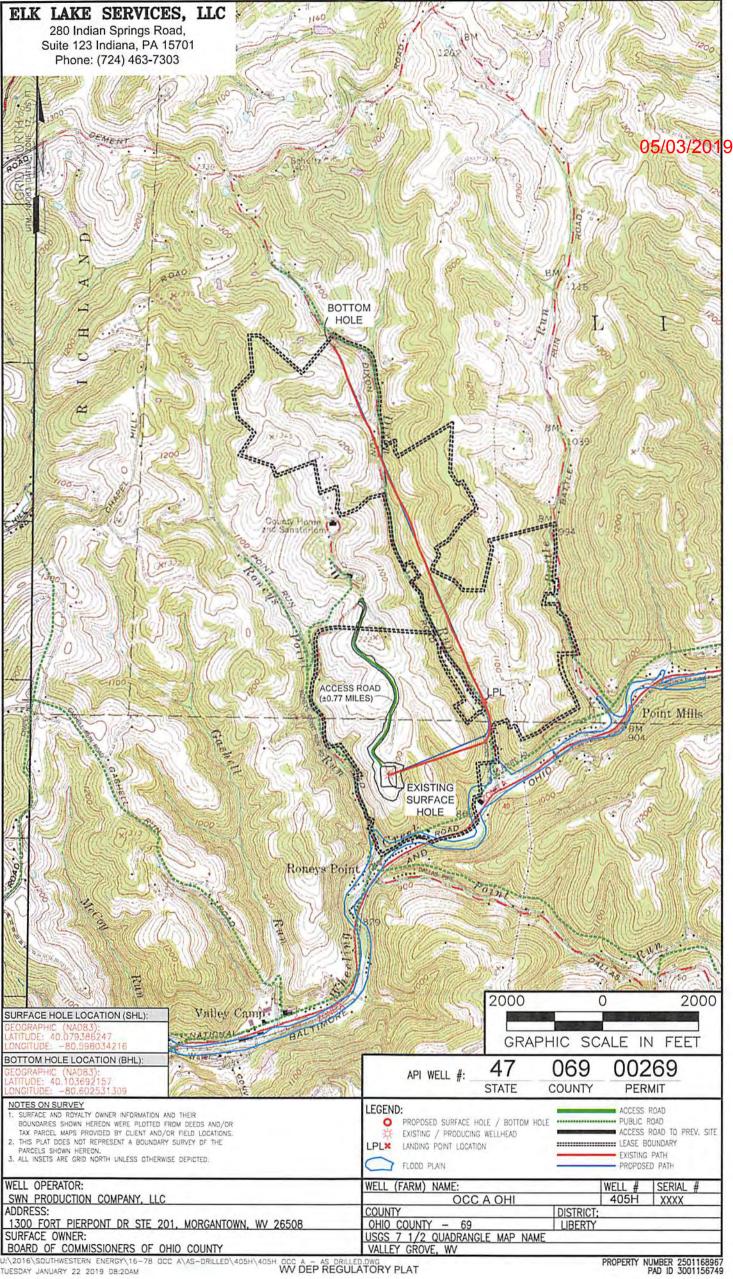
Elizabeth Gee

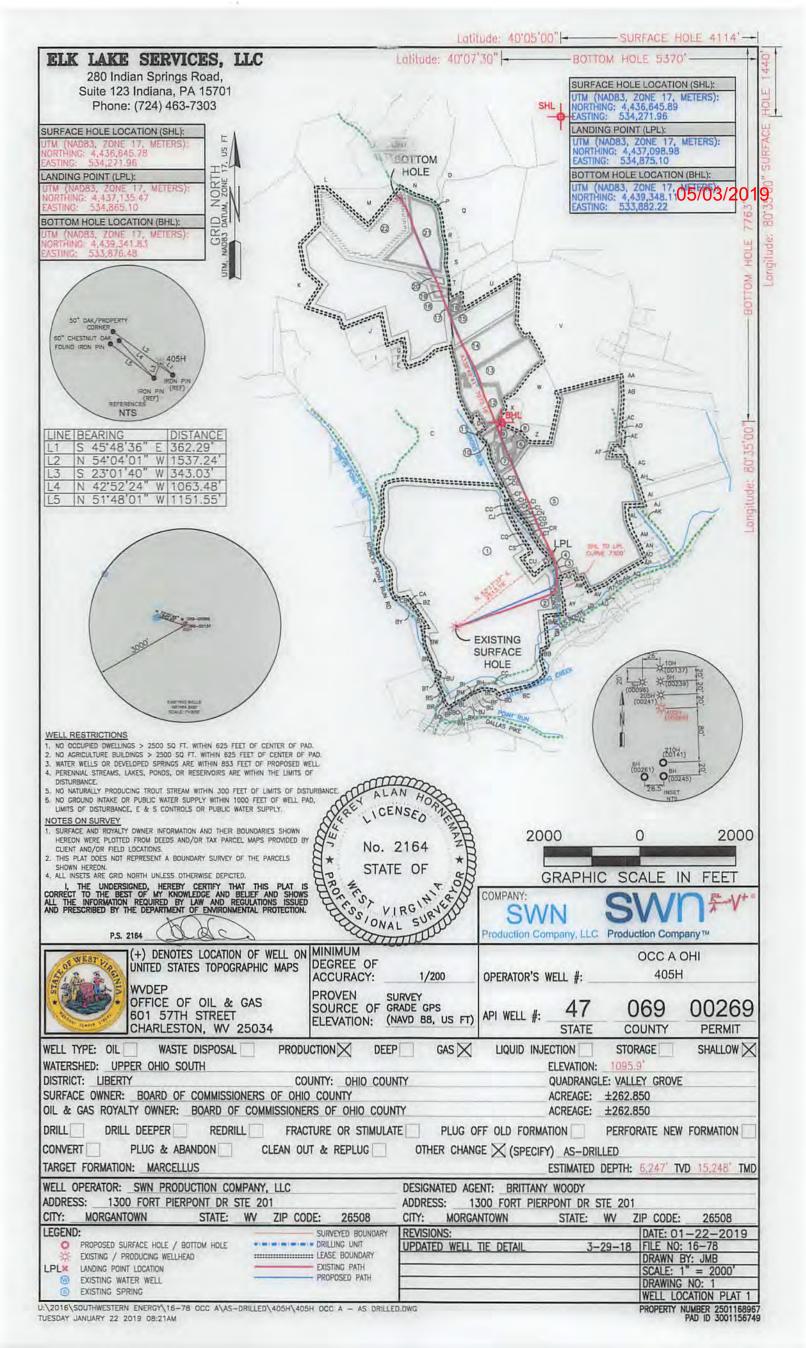
Staff Regulatory Analyst SW Appalachia Division

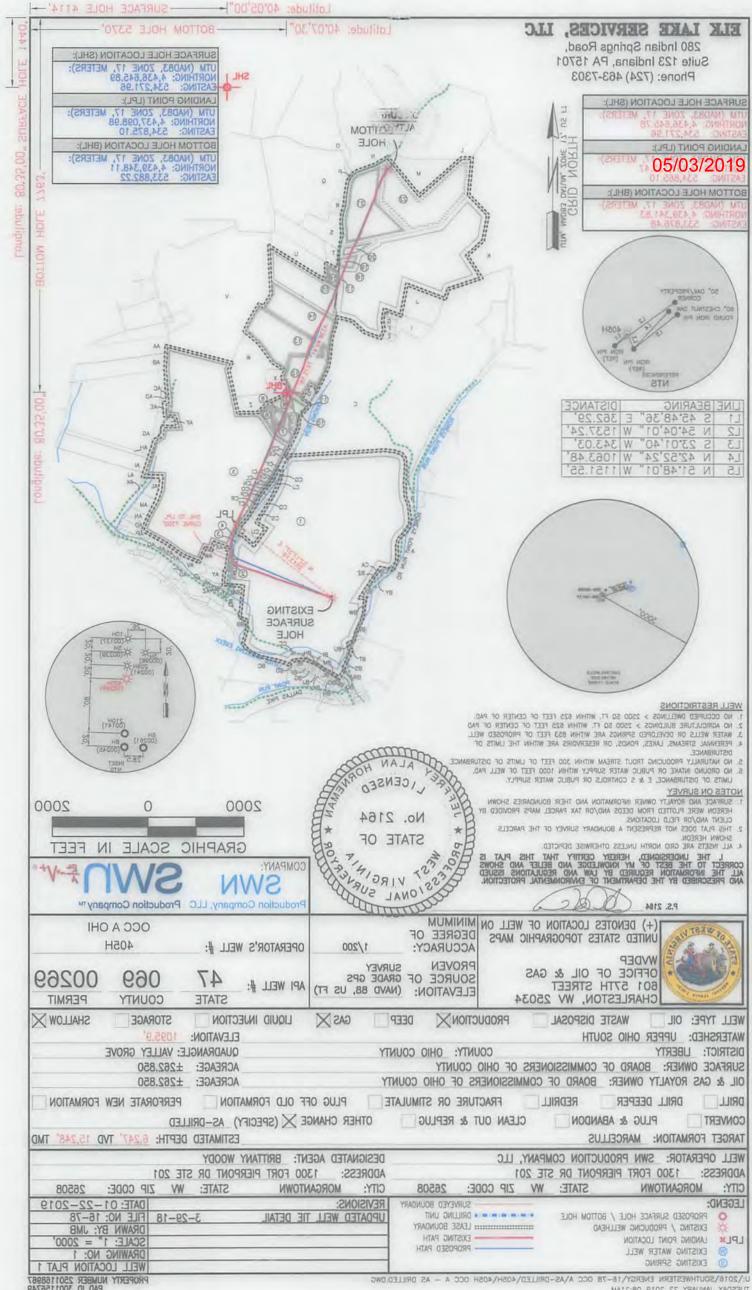
/lg Encl. Office of Oil and Gas

JAN 3.1 2019

WV Department of Environmental Protection







ELK LAKE SERVICES, LLC

280 Indian Springs Road, Suite 123 Indiana, PA 15701 Phone: (724) 463-7303

> WELL BORE TABLE FOR # PEACE / ROYALTY OWNERS TAX PARCEL ACRES TRACT SURFACE OWNER / ROY, LIF OWNER BOARD OF COMMISSIONERS OF OHIO COUNTY (S/R) 262.850 3-L13-3 1 ACRES TAX PARCEL TRACT SURFACE OWNER HARRY E. & CHERYL L. HOLMAN
> KEITH E. & CAROLYN J. BARON
> WV DOT, DIVISION OF HIGHWAYS
> RICHARD G. DEEVER
> SANDRA LYNN STEVENSON-MOKROS 6-T3-11 3-L13-15 0.389 N/A DIXONS RUN RD 3-L13-16 3-L13-5-3 5 178.043 6 2.274 JAMES ALAN STEVENSON
> SANDRA LYNN STEVENSON-MOKROS 3-L13-5-4 3-L13-5-7 4.777 1.404 8 DAVID W. STEVENSON ETAL JO ANN VANDERGRIFT (LE) AND ROBERT L YOUNG (REMAINDER) 3-L13-5 1.360 9 3-L13-4-1 1.465 10 JO ANN VANDERGRIFT (LE) AND ROBERT L. YOUNG (REMAINDER) 1.074 3-L13-4-2 11 12 13 RONALD W. HOUCHINS 14.387 RONALD W. HOUCHINS LANCE H., JR & SHAENAN G. MILLER 3-L10-36-5 20.000 3-L10-36 20.000 3-L10-36-6 20.040 14 DAVID A. & FLORENCE D. BLOWERS
>
> MICHELLE L. HORBATAK
>
> MICHELLE L. HORBATAK
>
> THOMAS R. & SUE O. ABRAHAM, HIS WIFE 15 16 3-L10-36-1 3-L10-26-7 2.219 0.0092 18 3-L10-26 98.6688 PATRICIA SMITH ETAL 3-L10-47 2.000 JOYCE E. KIMPEL
> JEAN P. AND LOUISE P. LOUSTAU(LE) AND 3-L10-48 20 2.850 3-L10-27 50.865 CAROLINE L. BYRUM (REMAINDER) 3-L10-27-3 25.000

05/03/2019

	22	CAROLINE	LOUSTAU
	ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	ACRE
A	TIMMY B. & AMY LYNN MINCH	6-T3-5	161.80
В	CARL J. SHELLER	3-L13-24	2.198
C	BOARD OF COMMISSIONERS OF OHIO COUNTY	3-L13-3-1	227.64
D	RICHARD CLARK STEELE JR., AND ALEXANDRA MILENA PUSKARICH	3-L13-4	1.056
E	DAVID H. & DOROTHY L. NEWLAND	3-L10-26-1	1.000
F	ZELDA E. HALL	3-L10-26-3	0.992
G	EVELYN E. SCHULTZ	3-L10-26-4	1.135
Н	HERMAN & MARTHA K. KRUPINSKI	3-L10-26-5	1.162
1	CHRISTOPHER BELLANCO	3-L10-26-6	5.166
J	WALTER D. & DEBORAH A. BARTOLOVICH	3-L10-26-2	12.00
K	ROBERT R. LUCHETTI	3-L10-23	162.813
L	GLEN L. & REBECCA S. WALTERS	3-L10-28	39.88
M	CAROLINE LOUSTAU BYRUM	3-L10-27-1	10.00
N	LINDA A. GILMORE ETAL	3-L10-29	50.00
0	MICHAEL R. & KATHERINE A. PARSONS	3-L10-35-3	53.75
P	MICHAEL R. & KATHERINE A. PARSONS	3-L10-27-2	0.135
Q	BRUCE A. & BRENDA J. PARSONS	3-L10-35	54.23
S	FLORA DIETRICH	3-L10-35-1	2.02
	HARRY F. & KRISTINE A. METZ	3-L10-35-2	9,29
T	CLARENCE A A WOOD	3-L10-36-7	2.091
U	MICHELLE L. HORBATAK	3-L10-36-3	10.31
V	CURTIS ROBERT HARRIS	3-L10-37	115.64
W	KIMBERLY ANN STEVENSON	3-L13-5-2	20.16
X	CECILEA DELGADO & JOSHUA MOORE	3-L13-5-6	2.413
Y	BRENDA JO STEVENSON & EDGAR DELGADO	3-L13-5-1	3.587
Z	KIMBERLY STEVENSON		-
		3-L13-5-5	5.625
AA	ARCH J. DIERINGER JR.	3-L10-45-1	21.71
AB	C A EVANS AND R A DIERINGER	3-L13-21-1	15.00
AC	ARLEY NEMO	3-L13-16-1	0.387
AD	ARLEY NEMO	3-L13-20	1.180
AE	RICHARD DEEVER	3-L13-20-1	0.601
AF	GREGORY R. GANTZER	3-L13-19	1.550
AG	ARCH J. DIERINGER, JR.	3-L13-21	60.07
AH	ALVIN YODER	3-L13-21-2	3.468
Al	ALVIN YODER	3-L13-22	13.77
AJ	FRESH AIR FARM, INC.	8-VG8-11	39.00
AK	HORST LOHR	3-L13-17	0.562
AL	THOMAS E. SEIFERT	3-L13-17-2	4.012
AM	JAMES E. & MARY E. EBBERT	3-L13-18	3.220
AN	PATTY J. EBBERT	8-VG8-1	1,970
AO	NORMA J. & MICHAEL C. ELTRINGHAM	8-VG8-1-1	1.250
AP	A R. & HILDA M. WALKER		
	175100 00000 00000 00000	B-VG8-5	5.740
AQ	FRANKLIN COSTANZO	8-VG8-4	3.280
AR	MARY A. HILLBERRY AND GERRY L. TRAGER	8-VG10-3	2.000
AS	KARL L., SR. & CAROL J. KOSEM	8-VG10-2	2.510
AT	KARL L., SR. & CAROL J. KOSEM	B-VG10-2-1	1.490
AU	PAUL R. SR. AND CAROL G. TEMPLIN	B-VG10-1	1,370
AV	GERALD T. & ANNA M. MOORE	6-T3-15-3	3.697
AW	CHERYL L. AND HARRY E. HOLMAN	6-T3-13	3.580
AX	HARRY E. & CHERLY L. HOLMAN	6-T3-12	1.000

2000	ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
AY	GERALD T. & ANNA MOORE	6-13-14	2.480
AZ	GERALD T. & ANNA MOORE	5-T3-14-1	0.242
BA	OHIO COUNTY COMMISSION	6-T3-28	5.108
BB	JDS INVESTMENTS LLC	5-T3-16	3.038
BC	MELODY E. GARRISON	B-T3-33	23.386
BD	JANIE K. KUHENS	6-T3-34	0.204
BE	SUPERIOR INDUSTRIAL LAUNDRIES	6-T3Q-26	1.060
BF	PAULA C. & ORION E. STEPHAN	B-T3Q-25	0.306
BG	HAROLD B. & D J. MOORE	5-T3Q-24	0.360
BH	ROBERT B. & EVELYN M. CLARK	6-T3Q-23	0.200
BI	MARVIN H. & K L. SWAIN	6-T30-22	0.200
BJ	PHK, LLC	6-T3Q-21	0.450
BK	TAMMY M. HAMMONS	6-T30-20	0.360
BL	EDDIE L. & TRACEY L. MCDANIELS	6-T3Q-19	0.770
BM	JUSTIN S. MARSH & ASHLEY L. FONNER	6-T3Q-18-1	0.260
BN	HOLLY M. FLACK	B-T3Q-18	0.223
	JOSEPH A. MCKENNEN II AND BARBARA ANN		
BO	MCKENNEN (LE)	6-T3Q-17	0.550
BP	VALLEY COIN MACHINE COMPANY, LLC.	6-T3Q-16	1.113
BQ	BOARD OF COMMISSIONERS OF OHIO COUNTY	6-T3Q-13	0.1128
BR	KENNETH L. NELSON	6-T3Q-10	0.246
BS	JOHN A. AND CINDY M. HUNTER	6-T3Q-11-1	0.920
BT	JOHN A. AND CINDY M. HUNTER	6-T3Q-11	1,461
BU	JOHN A. AND CINDY M. HUNTER	6-T3Q-12	0.270
BV	RANDY DALE & BRENDA JOYCE HANNING	5-73-5-2	4.549
BW	RANDY DALE & BRENDA JOYCE HANNING	6-T3-5-1	0.217
BX	BOARD OF COMMISSIONERS OF OHIO COUNTY	6-T3-10	1.800
BY	BARBARA A. SHORES	6-73-9	1.100
BZ	JAMES R. AND DARLA J. HUGHES	5-T3-B	0.340
CA	TRACEY E. & JOHN P. KETRON	6-13-7	0.230
CB	ALFRED DERR JR.	5-T3-6	1,100
CC	VILLAGE OF VALLEY GROVE	6-T3Q-27	0.028
CD	KIMBERLY STEVENSON ETAL	3-L13-6-1	0.604
CE	BOARD OF COMMISSIONERS OF OHIO COUNTY	3-L13-6-3	0.080
CF	TYSON L AND VANESSA LOVERIDGE	3-L13-6	0.521
CG	TYSON L. AND VANESSA LOVERIDGE	3-113-6-4	0.210
CH	RHONDA L. FLANEGIN	3-L13-7	0.210
CI	JAMES E., III & CHRISTINE WHEELER	3-L13-8-1	_
CJ	JAMES E., III & CHRISTINE WHEELER	3-L13-8-2	0.164
CK	JAMES E., III & CHRISTINE WHEELER		0.296
_		3-L13-8	0.256
CL	BEVERLY J. WHEELER	3-L13-9	0.548
CM	BEVERLY J. WHEELER	3-L13-10	0.303
CN	KEITH E. & CAROLYN J. BARON	3-L13-11-2	0.047
CO	KEITH E. & CAROLYN J. BARON	3-L13-11	0.860
CP	JOYCE M. LEIFHEIT ETAL	3-113-11-1	0.140
CO	JOYCE M. LEIFHEIT ETAL	3-L13-12-3	0.968
CR	JOYCE M. LEIFHEIT ETAL	3-L13-12	0.824
CS	STEVEN P. SHEARER	3-L13-12-1	0.824
CT	STEVEN P. SHEARER	3-L13-12-2	0.450
CU	JAMES C. & DEBORAH L. KNIGHT	3-L13-13	5.444
CV	GARY L. & MARY C. DEMERSKI	3-L13-14	0.561

47 069 00269 API WELL #: COUNTY STATE PERMIT COMPANY: REVISIONS: Production Company™ DATE: 01-22-2019
FILE NO: 16-78
DRAWN BY: JMB
SCALE: N/A
DRAWING NO: 1 OCC A OHI OPERATOR'S 405H WELL #: DISTRICT: COUNTY: STATE: OHIO COUNTY LIBERTY WV WELL LOCATION PLAT 1

EIK LAKE SERVICES, LLC

280 Indian Springs Road, Suite 123 Indiana, PA 15701 Phone: (724) 463-7303

05/03/2019

name v		WELL BORE TABLE FOR STRACE / ROYALTY	-
ACRES	TAX PARCEL	SURFACE OWNER / ROYALLY OWNER	RACT
252.850	3-113-3	BOARD OF COMMISSIONERS OF DHIG COUNTY (S/R)	t
ACRES	TAX PARCEL	SURFACE OWNER	TRACT
1.080	6-73-11	SURFACE OWNER HARRY E. & CHERYL L. HOLMAN	2
0.389	3-L13-15	KEITH E. & CAROLYN J. BARON	3
A\U	DIXONS RUN RD	WV DOT, DIVISION OF HIGHWAYS	4
178.043	3-L13-16	RICHARD G. DEEVER	5
2.274	3-113-5-3	SANDRA LYNN STEVENSON-MOKROS	8
4.777	3-113-5-4	JAMES ALAN STEVENSON	7
1,404	3-L13-5-7	SANDRA LYNN STEVENSON-MOKROS	8
	3-L13-5	DAVID W. STEVENSON ETAL	6
1.465	3-113-4-1	JO ANN VANDERGRIFT (LE) AND ROBERT L. YOUNG (REMAINDER)	10
1.074	3-L13-4-2	JO ANN VANDERGRIFT (LE) AND ROBERT L YOUNG (REMAINDER)	77
14.387	3-113-4-3	RONALD W. HOUCHINS	12
20.000	3-110-36-5	RONALD W. HOUCHINS	13
20.000	3-110-36	LANCE H., JR & SHAENAN G. MILLER	14
20.040	3-110-35-5	DAVID A & FLORENCE D. BLOWERS	15
2.219	3-L10-35-1	MICHELLE L. HORBATAK	16
0.0092	3-L10-26-7	MICHELLE L. HORBATAK	17
98.6688		THOMAS R, & SUE O. ABRAHAM, HIS WIFE	Br
2,000	3-L10-47	PATRICIA SMITH ETAL	19
2.850	3-L10-48	JOYCE E. KIMPEL	20
	3-L10-27	JEAN P. AND LOUISE P. LOUSTAU(LE) AND CAROLINE L. BYRUM (REMAINDER)	21
25.000	3-110-27-3	CAROLINE LOUSTAU BYRUM	22

		ADJOINING OWNERS TABLE	
ACRES	TAX PARCEL	SURFACE DWNER	TRACT
2.480	6-73-14	GERALD T. & ANNA MOORE	YA
0.242	5-T3-14-T	GERALD T. & ANNA MOORE	AZ
5.108	5-T3-28	OHIO COUNTY COMMISSION	AB
3.03B	6-73-16	JDS INVESTMENTS LLC	88
23.386	5-73-33	MELODY E CARRISON	DB.
0.204	5-T3-34	JANIE K. KUHENS	08
1.060	6-T3Q-26	SUPERIOR INDUSTRIAL LAUNDRIES	38
0.306	5-T3Q-25	PAULA C. & ORION E. STEPHAN	BF
0.360	6-130-24	HAROLD B. & D J. MOORE	BG
0.200	5-T3Q-23	ROBERT B. & EVELYN M. CLARK	HB
0.200	6-130-22	MARVIN H & K L SWAIN	18
0.450	6-130-21	PHK, LLC	LB
0.350	6-130-20	TAMMY M. HAMMONS	NE
0,770	6-130-19	EDDIE L & TRACEY L MCDANIELS	JB
0.280	6-730-18-1	JUSTIN S. MARSH & ASHLEY L. FONNER	ME
0.223	81-D3T-8	HOLLY M. FLACK	NB
0.550	6-730-17	JOSEPH A. MCKENNEN II AND BARBARA ANN MCKENNEN (LE)	08
1.113	6-T30-16	VALLEY COIN MACHINE COMPANY, LLC	98
0.1128	6-730-13	BOARD OF COMMISSIONERS OF OHIO COUNTY	80
0.246	6-730-10	KENNETH L NELSON	RE
0.920	5-T30-11-1	JOHN A. AND CINDY M. HUNTER	BS
1.461	6-T30-11	JOHN A. AND CINDY M. HUNTER	TEI
0.270	6-T3Q-12	JOHN A, AND CINDY M. HUNTER	BU
4.549	6-T3-5-2	RANDY DALE & BRENDA JOYCE HANNING	VE
0.217	B-T3-5-1	RANDY DALE & BRENDA JOYCE HANNING	BW
008.1	6-T3-10	BOARD OF COMMISSIONERS OF OHIO COUNTY	BX
1,100	6-73-9	BARBARA A. SHORES	YB
0.340	6-T3-8	JAMES R. AND DARLA J. HUGHES	82
0.230	E-T3-7	TRACEY E. & JOHN P. KETRON	CA
1.100	6-13-6	ALFRED DERR JR.	BO
0.028	B-T3Q-27	VILLAGE OF VALLEY GROVE	22
0.604	3-113-6-1	KIMBERLY STEVENSON ETAL	CD
080.0	3-113-6-3	BOARD OF COMMISSIONERS OF OHID COUNTY	30
0.521	3-L13-6	TYSON L AND VANESSA LOVERIDGE	CF
0.210	3-113-6-4	TYSON L AND VANESSA LOVERIDGE	CG
0.145	3-113-7	RHONDA L FLANEGIN	HO
0.164	3-113-8-1	JAMES E., III & CHRISTINE WHEELER	10
0.296	3-113-8-2	JAMES E., III & CHRISTINE WHEELER	CJ
0.256	3-L13-8	JAMES E., III & CHRISTINE WHEELER	CK
0.548	3-113-9	BEVERLY J. WHEELER	CL
0.303	3-113-10	BEVERLY J. WHEELER	CM
0.047	3-L13-11-2	KEITH E & CAROLYN J. BARON	CN
0.860	3-113-11	KEITH E. & CAROLYN J. BARON	00
0.140	3-L13-11-1	JOYCE M. LEIFHEIT ETAL	CP
888.0	3-113-12-3	JOYCE M. LEIFHEIT ETAL	DO.
0.824	3-L13-12	JOYCE M. LEIFHEIT ETAL	CR
0.824	3-L13-12-1	STEVEN P. SHËARER	CS
0.450	3-L13-12-2	STEVEN P. SHEARER	CT
5.444	3-L13-13	JAMES C. & DEBORAH L, KNIGHT	CU
0.561	3-L13-14	GARY L. & MARY C. DEMERSKI	CV

ACRES	TAX PARCEL	ADJOINING OWNERS TABLE SURFACE OWNER	RACT
161.800	5-73-5	TIMMY B. & AMY LYNN MINCH	Α
2.198	3-113-24	CARL J. SHELLER	8
227.648	3-113-3-1	BOARD OF COMMISSIONERS OF DHID COUNTY	0
1.056	3-113-4	RICHARD CLARK STEELE JR., AND ALEXANDRA MILENA PUSKARICH	D
1.000	3-1.10-25-1	DAVID H. & DOROTHY L. NEWLAND	3
0.992	3-L10-25-3	ZELDA E. HALL	7
1.135	3-110-25-4	EVELYN E. SCHULTZ	0
1_162	3-L10-25-5	HERMAN & MARTHA K. KRUPINSKI	H
3.166	3-110-26-6	CHRISTOPHER BELLANCO	- 1
12,002	3-110-26-2	WALTER D. & DEBORAH A. BARTOLOVICH ROBERT R. LUCHETTI	U
162.8138	3-L10-23 3-L10-28	GLEN L & REBECCA S WALTERS	K
10.000	3-110-27-1	CAROLINE LOUSTAL BYRUM	M
50.000	3-110-29	LINDA A GILMORE ETAL	M
53.751	3-L10-35-3	MICHAEL R. & KATHERINE A. PARSONS	0
0.135	3-110-27-2	MICHAEL R. & KATHERINE A. PARSONS	q
54.236	3-110-35	BRUCE A. & BRENDA J. PARSONS	0
2.02	3-L10-35-1	FLORA DIETRICH	Ħ
9.29	3-110-35-2	HARRY F. & KRISTINE A, METZ	S
2.091	3-110-35-7	CLARENCE A A WOOD	T
10.312	3-110-36-3	MICHELLE L HORBATAK	Ų
115.646	3-1.10-37	CURTIS ROBERT HARRIS	V
20.160	3-113-5-2	KIMBERLY ANN STEVENSON	W
2.413	3-113-5-6	CECILEA DELGADO & JOSHUA MOORE	X
3.587	3-L13-5-1	BRENDA JO STEVENSON & EDGAR DELGADO	Y
5.625	3-113-5-5	KIMBERLY STEVENSON	Z
21,714	3-110-45-1	ARCH J. DIERINGER JR.	AA
15.00	3-113-21-1	C A EVANS AND R A DIERINGER	AB
20101	3-L13-16-1	ARLEY NEMO	AC
0.387	3-L13-20	ARLEY NEMO	OA
1.180	3-113-20-1	RICHARD DEEVER	AE
0.601	3-113-19	GREGORY R. GANTZER	AF
1,550			AG
60.076	3-L13-21	ARCH J. DIERINGER, JR.	HA
3.468	3-113-21-2	ALVIN YODER ALVIN YODER	10000
39.000	3-L13-22 8-VGB-11	FRESH AIR FARM, INC.	LA
0.562	3-113-17	HORST LOHR	AK
4.012	3-113-17-2	THOMAS E. SEIFERT	JA
3.220	3-113-18	JAMES E. & MARY E. EBBERT	MA
1.970	1-80V-8	PATTY J. EBBERT	ИА
1.250	8-VG8-1-1	NORMA J. & MICHAEL C. ELTRINGHAM	OA
-	8-VG8-5	A R. & HILDA M. WALKER	AP
5.740			
3.280	8-VG8-4	FRANKLIN COSTANZO MARY A. HILLBERRY AND GERRY L. TRAGER	OA .
2,000	8-VC10-3		9A
2,510	8-VG10-2	KARL L., SR, & CAROL J. KOSEM	AS
1,490	8-VG10-2-1	KARL L., SR. & CAROL J. KOSEM	TA
1.370	8-VG10-1	PAUL R. SR. AND CAROL G. TEMPLIN	UA
3.697	5-T3-15-3	GERALD T. & ANNA M. MOORE	VA
3,580	5-13-13	CHERYL L. AND HARRY E. HOLMAN	WA.

00269	690	47	API WELL #:
PERMIT	COUNTY	STATE	- 1000000000000000000000000000000000000

SVI F-V+** Production Company™			COMPANY:	REVISIONS:
DATE: 01-22-2019 FILE NO: 16-78 DRAWN BY: JMB	IH	OCC A C 405H	OPERATOR'S WELL #:	
SCALE: N/A DRAWING NO: 1 WELL LOCATION PLAT 1	STATE: WV	COUNTY: OHIO COUNTY	DISTRICT: LIBERTY	