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

API 47 - 009 _ 00234	County E	BROOKE		District BUFF	ALO	
Quad BETHANY			INSON BRK PAD	Field/Pool Nam	ne PANHANDLE	
Farm name BETHANY COLLEGE				Well Number	THOMAS PAR	RKINSON BRK 1H
Operator (as registered with the OOG)	SWN PRO	DUCTION CO	OMPANY, LLO	0		
Address PO BOX 12359		SPRING		State TX	Zi	77391-2359
Landing Point of Curve	Attach an Northing 44514 Northing 44539	64.47 67.69	Eas Eas	ad deviation surv sting 537090.91 sting 536980.08 sting 536121.52	ey	
Elevation (ft) 1,160.4 GL	Туре о	f Well ANew	□ Existing	Type of Re	eport 🗆 Interio	m BFinal
Permit Type   Deviated   Ho	orizontal 🖺	Horizontal 6A	□ Vertical	Depth Typ	pe 🗆 Dee	ep 🛢 Shallow
Type of Operation □ Convert □ D	eepen • Dr	ill 🗆 Plug E	Back □ Redr	illing D Rew	ork 🛮 Stim	ulate
Well Type □ Brine Disposal □ CBM	I ■ Gas □ O	il   Secondary	Recovery S	Solution Mining	□ Storage □	Other
Type of Completion ■ Single □ Mul	tiple Flui	ds Produced   □	Brine Gas	n NGL n	Oil 🗆 Other	
Drilled with □ Cable ■ Rotary				11111		
SOBM						
Date permit issued 2/2/2018	Date drill	ing commenced	2/16/201	B Date dri	lling ceased _	3/23/2018
Date completion activities began	5/12/2018	and the same of th	completion act	ivities ceased	7/9/20	18
Verbal plugging (Y/N) N I	Date permissio	n granted	N/A	Granted by	N	/A
						Office of Oil and Ga
Please note: Operator is required to su	ıbmit a pluggir	g application w	ithin 5 days of	verbal permissio	10	9 2010
Freshwater depth(s) ft	401	Open	mine(s) (Y/N)	depths	ERVI	ronment Department
Salt water depth(s) ft	813	Voide	(s) encountered	(Y/N) depths	_	N Protection
Coal depth(s) ft34	47	Cave	rn(s) encountere	ed (Y/N) depths		N
Is coal being mined in area (Y/N)	N					
Review	/ed				Re	viewed by: <u>93 [-73-1</u> 9

API 47- 009	_ 00234	Farm name_	BETHANY (	COLLEC	BE	We	ll number_THO	DMAS P	ARKINSON BRK 11
CASING STRINGS	Hole Size	Casing Size		New or Used	Grade wt/ft		Basket Depth(s)		nent circulate (Y/ N)
Conductor	24	20	126	NEW		i/94#			Y
Surface	17.5	13.375	481	NEW		50/48#	296.2, 337.5		Y, 10
Coal	SEE SURFACE								
Intermediate 1	12.25	9.625	1737	NEW	J-55	3/36#			Y, 26
Intermediate 2	1 1			-					
Intermediate 3	1								
Production	8.75/8.50	5.5 1	14950	NEW	HCP-1	10/20#			Y
Tubing	1	2.375	6174	NEW	HCP-1	10/4.7#			N
Packer type and o	lepth set						_		
Comment Details	·								
CEMENT	Class/Type	Number	Slurry		ield	Volume			WOC
DATA Conductor	of Cement CLASS A	of Sacks GROUT TO SURFACE	wt (ppg)	<u> </u>	<sup>3</sup> /sks)	(ft.².)	Top (N		(hrs) 24
Surface	CLASS A	490	15.60	<del>- </del>	.20	588	SURF		8
Coal	SEE SURFAC		10.00	<u> </u>					
Intermediate I	CLASS A	659	15.60	<del>                                     </del>	.18	777.62	2 SURF	ACE	8
Intermediate 2			10.00	<del></del>					
Intermediate 3			+	<u> </u>					
Production	CLASS A	2,748	15.60	<del>                                     </del>	1.90	5221.2	2 SURF	ACE	24
Tubing									<del></del>
Drillers TD (f Deepest forma Plug back pro ————————————————————————————————————	ation penetrated ocedure NA	MARCELLUS			D (ft) 14,94 to (ft) WA			-	
Check all wire	eline logs run	•	•	deviate	ed/direction a ray		induction temperature	□soni	ic
Well cored	□ Yes 🚪 No	Conventional	Sidewall	l	We	ere cutting	gs collected (	Yes I	■ No
DESCRIBE T	HE CENTRALI	ZER PLACEMENT	USED FOR E	EACH CA	ASING ST	RING _		_	
	RALIZERS - EVERY THIS						· <u>·</u>		
-		RY THIRD JOINT OF CASING RY THIRD JOINT FROM SURFA	CE TO TOP OF CUE	ZVE THEN E	ERY IOINT III	NTU TO			
		AS SHOT HOLE			ETAILS	_		Office of	ECEIVED of Oil and Gas
WAS WELL	COMPLETED C	OPEN HOLE? DY	es ■ No	DET	AILS		Env	WV Dep	- 9 2018  artment or tal Protection
WERE TRAC	ERS USED 🗆	Yes No T	YPE OF TRA	CER(S) I	JSED				Protection

API	47- 009 .	00234	Farm name BETHANY COLLEGE	Well numberTHOMAS PARKINSON BRK
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#### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE	ATTACHMEN	1		
			-		
					-
-					
-	<del></del>	<del>   </del>			
-					
		<del>  </del>	-		
ļ	·				
			_		

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	<b>ATTACHMEN</b>					
	-							
						-	-	
				<del></del>		<del> </del>		
	-					<del>                                     </del>	Office of	EIVED
							00,0	EIVED Dil and Gas
				<del></del>			- V67 - )	9 2010
						<del>                                     </del>	W/o	ר <i>בטואָ</i>
-						ļ <u>E</u>	hvironmental	ment of Protection
								rotection

Please insert additional pages as applicable.

Drilling Contractor SWN DRILLING COMPANT					
Address PO BOX 12359	City	SPRING	State	TX	Zip 77391-2359
Logging Company BAKER HUGHES					
Address 9110 GROGANS MILL RD	City	THE WOODLANDS	State	TX	Zip <u>77380</u>
Cementing Company BJ SERVICES					
Address 2228 PHILIPPI PIKE	City	CLARKSBURG	State	WV	Zip 26309ffice RECEIVED
Stimulating Company US WELL SERVICES					OCT - 9 2018
Address 770 S. POST OAK LN #405	City	HOUSTON	State	TX	Zip 77056 9 2018
Please insert additional pages as applicable.					Environmental ment
Completed by BOEBY WILLIS		Telepho	one 832-796	-2884	Zip 77056 9 2018  Zip Profession
Signature	Title R	EGULATORY ANALYST		Date 1	0/5/2018

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

# **Hydraulic Fracturing Fluid Product Component Information Disclosure**

5/12/2018	Job Start Date:
6/3/2018	Job End Date:
West Virginia	State:
Brooke	County:
47-009-00234-00-00	API Number:
Southwestern Energy	Operator Name:
Thomas Parkinson BRK 1H	Well Name and Number:
40.21277402	Latitude:
-80.56411996	Longitude:
NAD83	Datum:
NC	Federal Well:
NC	Indian Well:
5,973	True Vertical Depth:
10,161,104	Total Base Water Volume (gal):
C	Total Base Non Water Volume:







# **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	
Vater	Southwestern Energy	Carrier/Base Fluid						
			Water	7732-18-5	100.00000	82.31025		
Sand	U.S. Well Services, LLC	Proppant						
7 - 1 - 1			Crystalline Silica, quartz	14808-60-7	100.00000	16.62566		
HCL Acid (12.6%- 17.5%)	U.S. Well Services, LLC	Bulk Acid						
			Water	7732-18-5	87.40000	0.78154		
			Hydrogen Chloride	7647-01-0	17.50000	0.18171	m m	
WFRA-2000	U.S. Well Services, LLC	Friction Reducer					wiror	00
			Water	7732-18-5	60.00000	0.04187	De	-
			2-Propenoic acid, polymer with 2 propenamide	9003-06-9	30.00000	0.02093	Departn mental	9
A			Hydrated light distillate (petroleum)	64742-47-8	30.00000	0.01717	Prot	2018
BIOC11219A	Nalco Champion	Anti-Bacterial Agent					ect	0
			Methanol	64-17-5	60.00000	0.00886	on on	
			Benzyl-(C12-C16 Alkyl)- Dimethyl-Ammonium Chloride	68424-85-1	30.00000	0.00563		
			Glutaraldehyde	111-30-8	10.00000	0.00188		

SCAL16486A	Nalco Champion	Scale Inhibitor			9		
			Ethylene Glycol	107-21-1	30.00000	0.00163	
		10.77	Amine Triphosphate	Proprietary	30.00000	0.00146	
1-303	U.S. Well Services, LLC	Acid Corrosion Inhibitors					
			Ethylene glycol	107-21-1	40,00000	0.00036	
			Cinnamaldehyde	104-55-2	20.00000	0.00013	
			Formic acid	64-18-6	20.00000	0.00013	
			Butyl cellosolve	111-76-2	20.00000	0.00012	
			Polyether	60828-78-6	10,00000	0.00006	
	ATTATE OF		Acetophenone,thiourea,formalde	68527-49-1	5.00000	0.00003	
T FLUSH SYSTEM I	U.S. Well Services, LLC	Other					
		7.4	Mineral oil, petroleum distillates, hrdotreated light naphthenic	64742-53-6	100.00000	0.00051	
AP One	U.S. Well Services, LLC	Gel Breakers					
			Ammonium Persulfate	7727-54-0	100.00000	0.00008	

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)

<sup>\*</sup> Total Water Volume sources may include fresh water, produced water, and/or recycled water
\*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

# THOMAS PARKINSON BRK 1H ATTACHMENT 1 PERF REPORT

		PERF REF	ORI		
TAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG	
1	7/4/2018	14,866	14,769	33	1
2	5/15/2018	14,734	14,627	42	
3	5/16/2018	14,594	14,487	42	
4	5/17/2018	14,454	14,347	42	
5	5/17/2018	14,314	14,207	42	
6	5/17/2018	14,174	14,067	42	
7	5/18/2018	14,034	13,927	42	
8	5/18/2018	13,894	13,787	42	
9	5/18/2018	13,759	13,647	42	
10	5/19/2018	13,614	13,510	42	
11	5/19/2018	13,474	13,367	42	
12	5/19/2018	13,334	13,227	42	
13	5/20/2018	13,194	13,087	42	
14	5/20/2018	13,054	12,947	42	
15	5/20/2018	12,914	12,807	42	
16	5/21/2018	12,774	12,667	42	
17	5/21/2018	12,634	12,527	42	
18	5/22/2018	12,494	12,387	42	
19	5/22/2018	12,354	12,247	42	
20	5/23/2018	12,214	12,107	42	
21	5/23/2018	12,074	11,967	42	
22	5/24/2018	11,934	11,827	42	
23	5/24/2018	11,794		42	
24	5/24/2018	11,654		42	
25	5/24/2018	11,514	11,407	42	
26	5/25/2018	11,374			4
27	5/25/2018	11,234		42	
28	5/26/2018	11,094		42	1
29	5/26/2018	10,954	10,847	42	
30	5/26/2018	10,814	10,707	42	
31	5/27/2018	10,674		42	4
32	5/27/2018	10,534		42	
33	5/27/2018	10,394	10,287	TAKE THE PROPERTY OF THE PROPE	1
34	5/28/2018	10,254	10,147	40	RECEIVED ffice of Oil and Gas
35	5/28/2018	10,114	10,007	V-1	
36	5/28/2018	9,974	9,867	42	001 3 2010
37	5/28/2018	9,834	9,727	42	WV Department of vironmental Protection
38	5/29/2018	9,694	9,587	42	vironmental Proteotion
39	5/29/2018	9,554	9,447	42	
40	5/29/2018	9,414		42	
41	5/29/2018	9,274	9,167	42	
42	5/30/2018	9,134	9,027	42	
43	5/30/2018	8,994	8,887	42	

# THOMAS PARKINSON BRK 1H ATTACHMENT 1 PERF REPORT

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
44	5/30/2018	8,854	8,747	42
45	5/31/2018	8,714	8,607	42
46	5/31/2018	8,574	8,467	42
47	5/31/2018	8,434	8,323	42
48	5/31/2018	8,294	8,187	42
49	6/1/2018	8,154	8,047	42
50	6/1/2018	8,014	7,907	42
51	6/1/2018	7,874	7,767	42
52	6/1/2018	7,734	7,627	42
53	6/1/2018	7,594	7,487	42
54	6/1/2018	7,454	7,347	42
55	6/1/2018	7,314	7,207	42
56	6/2/2018	7,174	7,067	42
57	6/2/2018	7,034	6,927	42
58	6/2/2018	6,894	6,787	42
59	6/2/2018	6,747	6,647	42
60	6/2/2018	6,614	6,507	42
61	6/2/2018	6,474	6,367	42
62	6/2/2018	6,334	6,227	42

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#### THOMAS PARKINSON BRK 1H ATTACHMENT 2 STIM REPORT

		-	Ave Pump	Ave	Max REPORT		Amount of	Amount of	Amount of
STAGE NUM	Stim Dat	ta.	Rate (BPM)	Treatment		ISIP (PSI)	Proppant (lbs)		nitrogen/othe
	1 5/12/	_	41	AND ADDRESS		6,069	The second secon		0
	2 5/15/		86			4,177	1017 T T T T T T T T T T T T T T T T T T T	47.4.77	0
	3 5/16/		91			4,504		17 9823	0
	4 5/17/		88			4,615			
	5 5/17/		88			4,429			0
	6 5/17/		91			4,794			
	7 5/18/		90			4,430			
	8 5/18/		90			4,346			
	9 5/19/		89			4,469			
	0 5/19/		89			4,457		7 1 1 1 1 1 1	
	1 5/19/		88			4,503		11.00	
	2 5/20/		86			4,518			
	3 5/20/		89			4,457			
	4 5/20/		88			4,510			
	5 5/21/		86			4,538			
			88						
						4,677			
	The second second	or her Fried L	88			4,171			
						4,337			
	9 5/22/		90			4,630			
	0 5/23/ 1 5/23/		90			4,433			
						4,483			
			87			4,386			
	3 5/24/		87			4,523			
	4 5/24/		88			4,911			
	5 5/25/		88			4,706			
	6 5/25/		87			4,799			
	7 5/25/		86			4,470			
	8 5/26/		86			4,881			
	9 5/26/		87			4,389			
	0 5/27/		86.5			4,872			
	1 5/27/		85.7			4,863			
	2 5/27/		87			4,752			
	3 5/27/		86.4			4,901			
	4 5/28/		88.2			4,625			
	5 5/28/	S (0) 1 1 1 1 1	86.6			4,661			
	6 5/28/		87.1			4,679			
	7 5/29/		90.2			4,457			
	8 5/29/	_	88.1			4,695		7.7.7.7.7	
	9 5/29/		6977			4,646			
	0 5/29/		89.3			4,778	-1,11,11		
	1 5/29/		87.6			4,633			
	2 5/30/		86.8			4,922			
	3 5/30/	_	89.1			4,841			
	4 5/31/		89.5			4,779			
	5 5/31/		87.8			4,482			
	6 5/31/		87.3			4,950			
	7 5/31/		89.5			4,078			
	8 5/31/		89.6			5,069			
		2018	89.8			4,750			
		2018	90.6			4,516			
		2018	88			4,988			
		2018	91.1			4,422			
5	3 6/1/	2018	85.8	8,174	5,693	4,599	279,400	3,759	0

# THOMAS PARKINSON BRK 1H ATTACHMENT 2

#### STIM REPORT

			Ave Pump	Ave	Max		Amount of	Amount of	Amount of
STAGE NUM		Stim Date	Rate (BPM)	Treatment	Breakdown	ISIP (PSI)	Proppant (lbs)	water bbls	nitrogen/othe
	54	6/1/2018	88.9	6,276	5,990	5,091	279,200	3,408	0
	55	6/2/2018	88.9	6,602	6,004	4,935	280,060	3,403	0
	56	6/2/2018	88.1	6,424	6,190	4,925	280,210	3,330	0
	57	6/2/2018	91.2	6,088	4,711	4,663	281,160	3,235	0
5	58	6/2/2018	93.5	6,323	6,007	4,450	281,800	3,154	0
	59	6/2/2018	89.4	6,235	5,465	4,459	281,420	3,122	0
(	50	6/2/2018	89	6,224	6,137	5,020	281,150	3,355	0
(	51	6/2/2018	90.7	6,198	5,801	4,128	281,190	3,300	0
(	52	6/3/2018	87.9	6,281	5,857	4,700	272,550	3,299	0

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WV Department of Environmental Protection



Well Name:

Thomas Parkinson BRK 1H

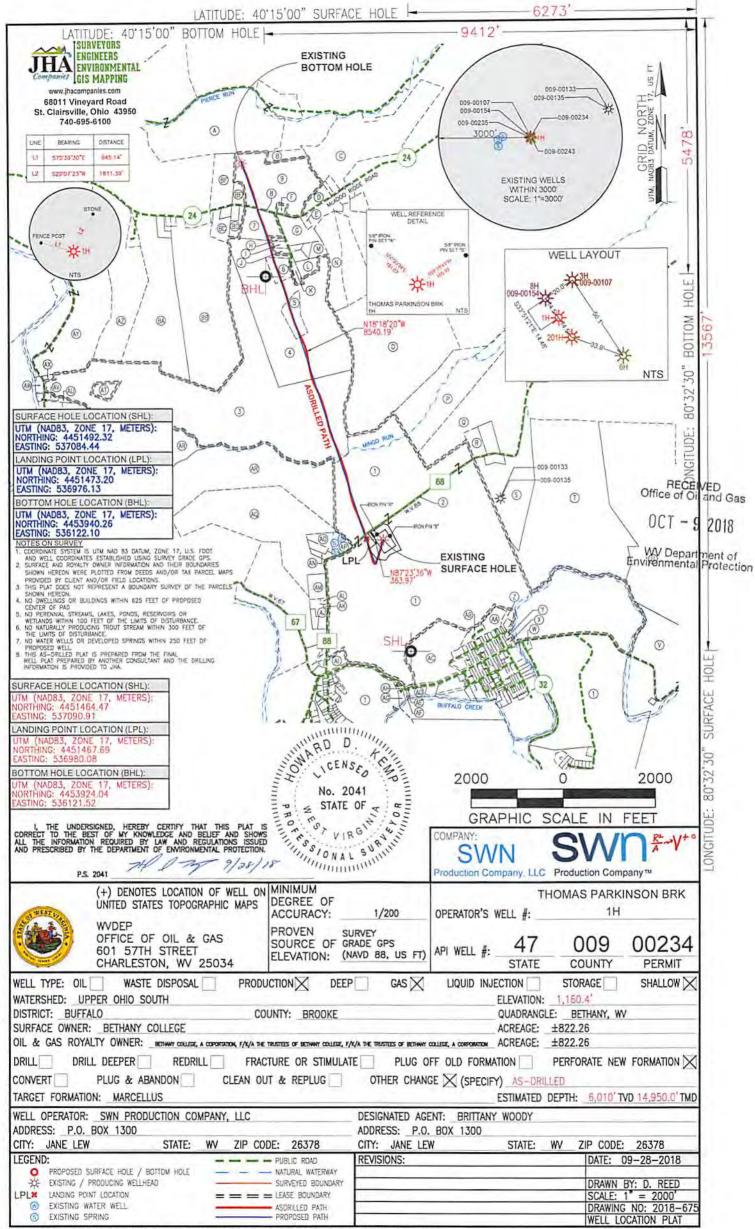
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LITHOLOGY/FORMATION	TOP DEPTH, MD (FT)	TOP DEPTH, TVD (FT)	BOTTOM DEPTH, MD (FT)	BOTTOM DEPTH, TVD (FT)	QUANTITY AND TYPE OF FLUID
Base of Fresh Water	0.00	0.00	401.00	401.00	
Top of Salt Water	813.00	813.00	NA	NA	
Pittsburgh Coal	339.00	339.00	347.00	347.00	
Maxton (ss)	1170.00	1170.00	1536.00	1536.00	
Big Injun (ss)	1536.00	1536.00	2009.00	2009.00	
Berea (siltstone)	2009.00	2009.00	5563.00	5530.00	
Rhinestreet (shale)	5563.00	5530.00	5718.00	5677.00	
Cashaqua (shale)	5718.00	5677.00	5779.00	5734.00	
Middlesex (shale)	5779.00	5734.00	5856.00	5799.00	
Burket (shale)	5856.00	5799.00	5872.00	5813.00	
Tully (Is)	5872.00	5813.00	5942.00	5865.00	
Mahantango (shale)	5942.00	5865.00	6183.00	5987.00	/
Marcellus (shale)	6183.00	5987.00	NA	NA	GAS

Office of Oil and Gas

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WW Department of Environmental Protection



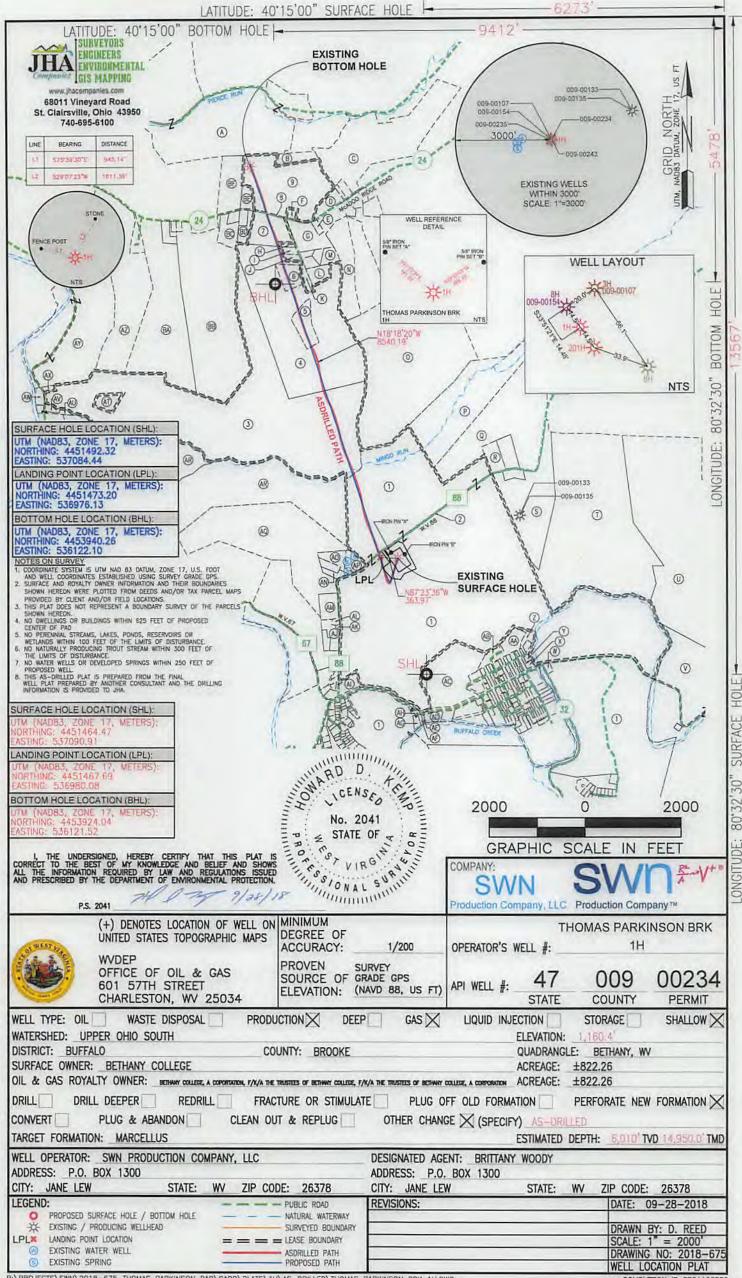
	WELL BORE TABLE FOR SURFACE / ROYALTY OV	VNERS	
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	
1	BETHANY COLLEGE (S) / BETHANY COLLEGE, A CORPORATION, F/K/A THE TRUSTEES OF BETHANY COLLEGE, F/K/A THE TRUSTEES OF BETHANY COLLEGE, A CORPORATION (R)	03-838-0031.0000	
TRACT	SURFACE OWNER	TAX PARCEL	
2	WY DOT, DIVISION OF HIGHWAYS	BEALL'S RIDGE RD	
-3	STARVAGGI INDUSTRIES, INC	03-837-0053,0000	
4	JOHN H., JR. & STEPHANIE PROELLOCHS; KEVIN & JODIE RAY	D3-B38-0007.0000	
5	JOHN H. PROELLOCHS, JR.	03-B38-0007.0001	
6	KEVIN & JODIE RAY	03-838-0005.0000	
7	RICARDO PACHECO, A SINGLE MAN	03-833-0068.0001	
8	WV DOT, DIVISION OF HIGHWAYS	MCADOO RIDGE RD	
9	DEBRA KAY PELAEZ	03-B33-0071.0000	

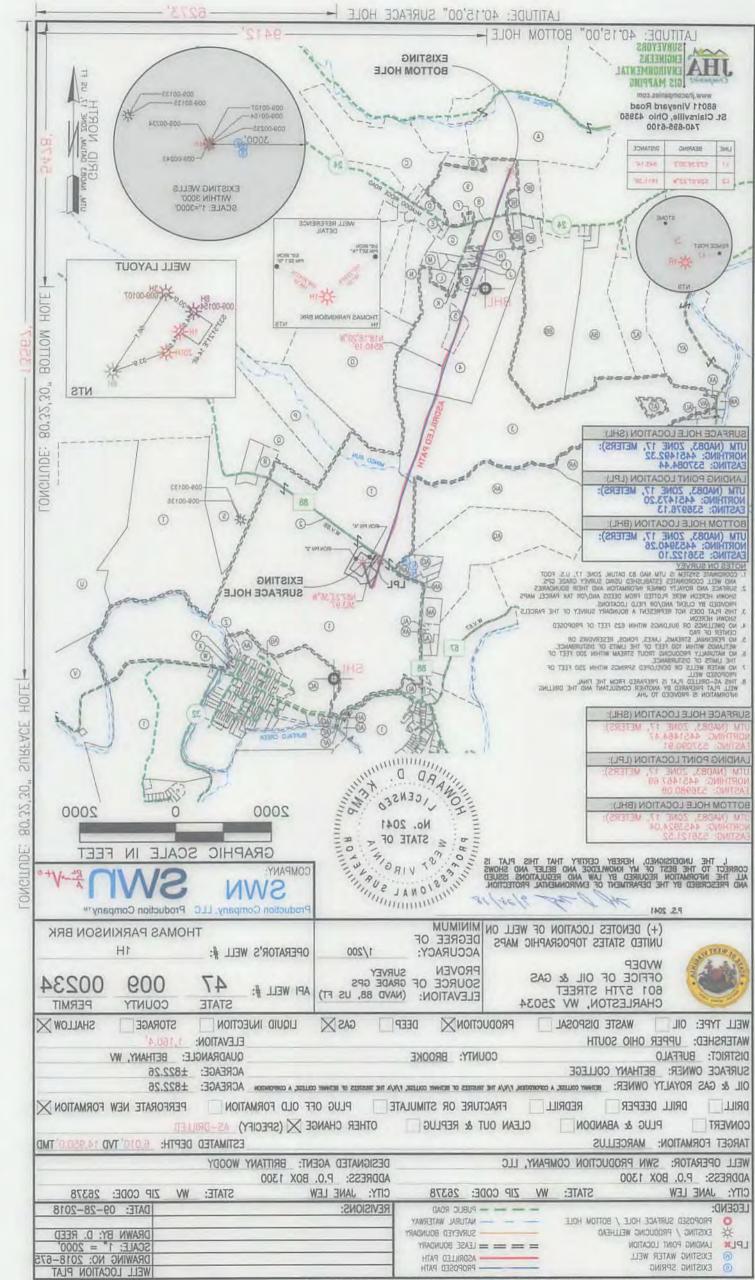
RACT	ADJOINING OWNERS TABLE SURFACE OWNER	TAX PARCEL
	STARVAGGI INDUSTRIES, INC.	03-933-0054.0000
A		-
В	MELVIN E. PELUCHETTE  MICHAEL JAMES & JENNIFER LYNN YAND	03-833-0053.0000
C	The reserve to the control of the co	03-833-0043.0000
D	KEVIN P. & GERRI L. KOPKO	03-B33-0043.0001
E	BRIAN P. & PATRICIA A. SANDRIDGE	03-333-0074.0000
F	ALBERT ROBERT STRICKLER	03-833-0072.0000
G	KEVIN & JODY RAY	03-833-0073.0000
Н	SCOTT A., III & LINDSEY LAW	03-B38-0058.0000
1	SCOTT A., III & LINDSEY LAW	03-B38-0003.0000
J	NORMAN K. BOWMAN	03-B38-0004.0000
K	JOHN H., SR. & NANCY J. PROELLOCHS	03-B38-0007.0002
1	ALAN L. & BETH B. KLEIN	03-838-0008.0000
М	ALAN L. & BETH B. KLEIN	03-838-0008.0001
N	JOHN H., JR. & STEPHANIE PROELLOCHS; KEVIN & JODY RAY	03-B38-0012.0000
0	MARK A. & GEORGIA M. FEDAK	03-338-0014.0000
P	JEFFREY W. HENSLER	03-338-0028.0000
Q	JEFFREY W. HENSLER	03-838-0027.0001
R	CHARLES F. & DONNA BROWN	03-838-0030.0000
S	KIMBERLY CARMAN WORTHLEY	03-838-0027.0000
T	KIMBERLY CARMAN WORTHLEY	03-838-0025.0000
·U	MARK W. DWEN & VIRGINIA BEALL KRUETZ	03-938-0024,0000
V	GENE CHARLES VALENTINE TRUST	03-843-0028.0000
W	RICHARD FRANCIS GORBY	03-343-0027.0000
×	JAMES & KATHLEEN KEEGAN	02-B43C-0037.0000
Y	BARBARA L CHAMBERS	02-B43C-0036.0000
Z	BETHANY COLLEGE	02-B43C-0003.0000
AA .	BETHANY COLLEGE	02-B43C-0002.0000
AB	BETHANY COLLEGE	02-B430-0001.0000
AC	BETHANY COLLEGE	01-B43B-0026.0000
AD	TRAVIS G. & GREGORY B. STRAUB	02-843F-0084.0000
AE	GEORGE SONNEWALD, JR.	02-843F-0082.0000
AF	GEORGE SONNEWALD, JR.	02-843F-0081.0000
AG	WILLIAM MITCHELL HEIRS	02-8438-0022.0000
AH	MITCHELL DONALD STEVEN	02-B43F-0083.0000
(A)	JOHN HUFF HEIRS	02-8438-0004.0000
AJ	DANNY M. & SANDRA L HOLLADAY	03-843-0003.0000
AK	DENNIS & DERRELLE RUSCHELL	03-343-0002.0000
AL	DENNIS & DERRELLE RUSCHELL	03-843-0001.0000
AM	RUTH GERMON, JEFFREY WOY, SUE MOCRE, PATRICIA WEST & SARA WOY	03-838-0037.0000
AN	DAVID G. OWENS & LINDA WALTERS	03-838-0035.0000
AO	DAVID G. OWENS & LINDA WALTERS	03-838-0033.0000
AP	DAVID G. OWENS & LINDA WALTERS	03-838-0032.0000
AQ	ALLEN JOHNSON & CHARLES WARREN, ET AL	03-B38-0036.0000
AR	MELVIN E, PELUCHETTE	03-837-0063.0000
AS	JOHN E. & SHERRILL J. RIPLEY	03-837-0062.0000
AT	MARLIN G., SR. & JOY H. CRAWFORD	03-B37-0053.0002
AU	MARLIN G., SR. & JOY H. CRAWFORD	03-337-0055.0000
AV	LAWRENCE PAUL SMITH, SR.	03-837-0054.0000
	WILLIAM E & HAZEL E. JOHNSTON	03-B37-0053.0001
AW	CLEO KLASES	
AX		03-B37-0052.0000 03-B37-004B.0000
AY	RICHARD ROGERS, CHERI SHARP, EDWARD O'DYER & ET AL	The state of the s
AZ	MARSH LIVING TRUST	03-B32-0118.0000
BA	JOHN PRATHER GOOD, JR. IRREVOCABLE TRUST	03-938-0001.0000
BB	MARY JANE JACKSON	03-B33-0060.0000
BC	TODD H, & SHARON E, JACKSON	03-833-0065.0000
BD	TYLER N. BROWN	03-933-0067,0000
BE	LAWRENCE PAUL SMITH, SR. & PATRICIA SHERON	03-833-0070.0000
BF	GREG & REGINA ZOLMAN	03-833-0069.0000

RECEIVED Gas Office of Oil and Gas

W Department of Environmental Protection

REVISIONS:	COMPANY:	SWN Production Company, LLC		Production Company <sup>Tu</sup>	
	OPERATOR'S WELL #:	THOMAS PARKINSON BRK 1H		DATE: 09-28-2018  DRAWN BY: D. REED	
	DISTRICT: BUFFALO	COUNTY: BROOKE	STATE: WV	SCALE: N/A DRAWING NO: 2018-675 WELL LOCATION PLAT	
				COMPLETION ID 2501166558 PAD ID 3001156582	





	WELL BORE TABLE FOR SURFACE / ROYALTY OV	VNERS
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
i	BETHANY COLLEGE (S) / BETHANY COLLEGE, A CORPORATION, F/K/A THE TRUSTEES OF BETHANY COLLEGE, F/K/A THE TRUSTEES OF BETHANY COLLEGE, A CORPORATION (R)	03-838-0031.0000
TRACT	SURFACE OWNER	TAX PARCEL
2	WV DOT, DIVISION OF HIGHWAYS	BEALL'S RIDGE RD
3	STARVAGGI INDUSTRIES, INC	03-B37-0053.0000
4	JOHN H., JR. & STEPHANIE PROELLOCHS; KEVIN & JODIE RAY	03-838-0007.0000
5	JOHN H. PROELLOCHS, JR.	03-B38-0007.0001
6	KEVIN & JODIE RAY	03-838-0006.0000
7	RICARDO PACHECO, A SINGLE MAN	03-B33-0068.0001
8	WY DOT, DIVISION OF HIGHWAYS	MCADOO RIDGE RD
9	DEBRA KAY PELAEZ	03-B33-0071.0000

RACT	ADJOINING OWNERS TABLE SURFACE OWNER	TAX PARCEL
A	STARVAGGI INDUSTRIES, INC.	03-833-0054.000
В	MELVIN E. PELUCHETTE	03-B33-0053.000
C	MICHAEL JAMES & JENNIFER LYNN YAND	03-833-0043.000
D	KEVIN P. & GERRI L. KOPKO	The second second second second
		03-B33-0043.000
E	BRIAN P. & PATRICIA A. SANDRIDGE	03-B33-0074.000
F	ALBERT ROBERT STRICKLER	03-B33-0072.000
G	KEVIN & JODY RAY	03-B33-0073.000
Н	SCOTT A., III & LINDSEY LAW	03-838-0058.000
1	SCOTT A., III & LINDSEY LAW	03-838-0003.000
J	NORMAN K. BOWMAN	03-B38-0004.000
K	JOHN H., SR. & NANCY J. PROELLOCHS	03-B38-0007.000
L	ALAN L. & BETH B. KLEIN	03-B38-0008.000
M	ALAN L. & BETH B. KLEIN	03-838-0008.000
N	JOHN H., JR. & STEPHANIE PROELLOCHS; KEVIN & JODY RAY	03-B38-0012.000
0	MARK A, & GEORGIA M. FEDAK	03-B38-0014.000
P	JEFFREY W. HENSLER	03-838-0028.000
0	JEFFREY W. HENSLER	03-B38-0027.000
R	CHARLES F. & DONNA BROWN	03-B38-0030.000
S	KIMBERLY CARMAN WORTHLEY	03-B38-0027.000
T	KIMBERLY CARMAN WORTHLEY	03-B3B-0025.000
U	MARK W. OWEN & VIRGINIA BEALL KRUETZ	03-838-0024.000
V	GENE CHARLES VALENTINE TRUST	03-B43-0028.000
W	RICHARD FRANCIS GORBY	03-843-0027.000
X	JAMES & KATHLEEN KEEGAN	02-B43C-0037.000
Y	BARBARA L. CHAMBERS	02-B43C-0036.000
Z	BETHANY COLLEGE	02-B43C-0003.000
AA	BETHANY COLLEGE	02-B43C-0002.000
AB	BETHANY COLLEGE	02-B43C-0001.000
AC	BETHANY COLLEGE	01-B43B-0026.000
-		
AD	TRAVIS G. & GREGORY B. STRAUB	02-B43F-0084.000
AE	GEORGE SONNEWALD, JR.	02-B43F-0082.000
AF	GEORGE SONNEWALD, JR.	02-B43F-0081.000
AG	WILLIAM MITCHELL HEIRS	02-B43B-0022.00
AH	MITCHELL DONALD STEVEN	02-B43F-0083.000
Al	JOHN HUFF HEIRS	02-B43B-0004.00
AJ	DANNY M. & SANDRA L. HOLLADAY	03-B43-0003.000
AK	DENNIS & DERRELLE RUSCHELL	03-843-0002.000
AL	DENNIS & DERRELLE RUSCHELL	03-B43-0001.000
AM	RUTH CERMON, JEFFREY WOY, SUE MOORE, PATRICIA WEST & SARA WOY	03-B38-0037.000
AN	DAVID G. OWENS & LINDA WALTERS	03-838-0035.000
AO	DAVID G. OWENS & LINDA WALTERS	03-838-0033.000
AP	DAVID G. OWENS & LINDA WALTERS	03-B3B-0032.000
AQ	ALLEN JOHNSON & CHARLES WARREN, ET AL	03-838-0036.000
AR	MELVIN E. PELUCHETTE	03-837-0063.000
AS	JOHN E. & SHERRILL J. RIPLEY	03-B37-0062.000
AT	MARLIN G., SR. & JOY H. CRAWFORD	03-837-0053.000
AU	MARLIN C., SR. & JOY H. CRAWFORD	03-B37-0055.000
AV	LAWRENCE PAUL SMITH, SR.	03-837-0054.000
AW	WILLIAM E. & HAZEL E. JOHNSTON	03-B37-0053.000
AX	CLEO KLAGES	03-B37-0052.000
AY	RICHARD ROGERS, CHERI SHARP, EDWARD D'DYER & ET AL	03-B37-0048.000
AZ	MARSH LIVING TRUST	03-B32-0118.000
BA	JOHN PRATHER GOOD, JR. IRREVOCABLE TRUST	03-B38-0001.000
BB	MARY JANE JACKSON	03-833-0060.000
BC	TODD H. & SHARON E. JACKSON	03-B33-0065.000
BD	TYLER N. BROWN	03-B33-0067.000
BE	LAWRENCE PAUL SMITH, SR. & PATRICIA SHERON	03-B33-0070.000

REVISIONS:	COMPANY:	COMPANY: SWN Production Company, LLC		SWN A V+° Production Company™	
	OPERATOR'S WELL #:		RKINSON BRK H	DATE: 09-28-2018  DRAWN BY: D. REED	
	DISTRICT: BUFFALO	COUNTY: BROOKE	STATE: WV	SCALE: N/A DRAWING NO: 2018-675 WELL LOCATION PLAT	

NERS	WELL BORE TABLE FOR SURFACE / ROYALTY OW				
TAX PARCEL	SURFACE OWNER (S) / ROYALTY OWNER (R)				
03-838-0031.0000	BETHANY COLLEGE (S) / BETHANY COLLEGE, A CORPORATION, F/K/A THE TRUSTEES OF BETHANY COLLEGE, F/K/A THE TRUSTEES OF BETHANY COLLEGE, A CORPORATION (R)	r			
TAX PARCEL	SURFACE OWNER	TRACT			
BEALL'S RIDGE RD	WY DOT, DIVISION OF HIGHWAYS	2			
03-837-0053.0000	STARVAGGI INDUSTRIES, INC	3			
03-838-0007.0000	JOHN H., JR. & STEPHANIE PROELLOCHS; KEVIN & JODIE RAY	4			
03-838-0007.0001	JOHN H. PROELLOCHS, JR.	5			
03-838-0006.0000	KEVIN & JODIE RAY	6			
03-833-0068.0001	RICARDO PACHECO, A SINGLE MAN	7			
MCADDO RIDGE RD	WY DOT, DIVISION OF HIGHWAYS	8			
03-833-0071.0000	DEBRA KAY PELAEZ	6			

	ADJOINING OWNERS TABLE				
TAX PARCEL					
03-833-0054.0000	STARVAGGI INDUSTRIES, INC.	RACT			
03-833-0053.0000	MELVIN E PELUCHETTE	8			
03-833-0043,0000	MICHAEL JAMES & JENNIFER LYNN YANG	0			
03-833-0043.0001	KEVIN P. & GERRI L KOPKO	0			
03-833-0074.0000	BRIAN P. & PATRICIA A. SANDRIDGE	3			
03-833-0072.0000	ALBERT ROBERT STRICKLER	7			
03-833-0073.0000	KEVIN & JODY RAY	2			
03-838-0058,0000	SCOTT A., III & LINDSEY LAW	Н			
03-838-0003.0000	SCOTT A., III & LINDSEY LAW	1			
03-838-0004.0000	NORMAN K. BOWMAN	L			
03-838-0007.0002	JOHN H., SR. & NANCY J. PROELLOCHS	Ж			
03-838-0008.0000	ALAN L & BETH B. KLEIN	1			
03-838-0008.0001					
	ALAN L & BETH B. KLEN	M			
03-838-0012.0000	JOHN H., JR. & STEPHANIE PROELLOCHS; KEVIN & JODY RAY	N			
03-838-0014.0000	WARK A & GEORGIA M. FEDAK	0			
03-838-0028.0000	JEFFREY W. HENSLER	9			
03-838-0027.0001	JEFFREY W. HENSLER	0			
03-B38-0030,0000	CHARLES F. & DONNA BROWN	Я			
03-838-0027.0000	KIMBERLY CARMAN WORTHLEY	S			
03-838-0025.0000	KIMBERLY CARMAN WORTHLEY	T			
03-838-0024,0000	MARK W. OWEN & VIRGINIA BEALL KRUETZ	u			
03-843-0028.0000	GENE CHARLES VALENTINE TRUST	V			
03-B43-0027.0000	RICHARD FRANCIS CORBY	W			
02-B43C-0037.0000	JAMES & KATHLEEN KEEGAN	×			
02-843C-0036.0000	BARBARA L CHAMBERS	Y			
02-843C-0003.0000	BETHANY COLLEGE	7			
02-B43C-0002,0000	BETHANY COLLEGE	AA			
02-843C-0001,0000	BETHANY COLLEGE	HA			
01-8438-0026.0000	BETHANY COLLEGE	AC			
02-B43F-0084.0000	TRAVIS C. & CRECORY B. STRAUB	AD:			
02-B43F-0082.0000	GEORGE SONNEWALD, JR.	AE			
02-B43F-0081.0000	GEORGE SONNEWALD, JR.	AF			
02-8438-0022.0000	WILLIAM MITCHELL HEIRS	AG			
02-843F-0083.0000	MITCHELL DONALD STEVEN	HA			
02-8438-0004.0000	JOHN HUFF HEIRS	IA.			
03-843-0003.0000	DANNY M. & SANDRA L. HOLLADAY	LA			
03-843-0002.0000	DENNIS & DERRELLE RUSCHELL	AK			
03-B43-0001.0000	DENNIS & DERRELLE RUSCHELL	JA			
03-838-0037.0000	RUTH GERMON, JEFFREY WOY, SUE MOORE, PATRICIA WEST & SARA WOY	MA			
03-838-0035.0000	DAVID C. OWENS & LINDA WALTERS	ИА			
03-838-0033.0000	DAVID G OWENS & LINDA WALTERS	OA			
03-838-0032.0000	DAVID G. OWENS & LINDA WALTERS	AP			
03-838-0036.0000	ALLEN JOHNSON & CHARLES WARREN, ET AL	DA			
03-837-0063.0000	MELVIN E. PELUCHETTE	AR			
03-837-0062.0000	JOHN E. & SHERRILL J. RIPLEY	AS			
03-837-0053.0002	MARLIN G., SR. & JOY H. CRAWFORD	TA			
	MARLIN G., SR. & JOY H CRAWFORD				
03-837-0055.0000	LAWRENCE PAUL SMITH, SR.	UA			
		VA WA			
03-837-0053.0001	WILLIAM E. & HAZEL E. JOHNSTON	WA.			
03-837-0052.0000	CLEO KLAGES	XA:			
03-837-0048.0000	RICHARD ROGERS, CHERI SHARP, EDWARD O'DYER & ET AL	YA			
03-832-0118.0000	MARSH LIVING TRUST	AZ			
03-B38-0001.0000	JOHN PRATHER GOOD, JR. IRREVOCABLE TRUST	BA			
03-833-0060.0000	MARY JANE JACKSON	88			
03-833-0065.0000	TODD H. & SHARON E, JACKSON	DE			
03-833-0067.0000	TYLER N. BROWN	BD			
03-B33-0070.0000	LAWRENCE PAUL SMITH, SR. & PATRICIA SHERON	36			
03-833-0069.0000	GREG & REGINA ZOLMAN	BF			

SWIN # WY+ © Production Company TW		SWN Production Company, LLC	COMPANY:	REVISIONS:
DATE: 09-28-2018	THOMAS PARKINSON BRK		OPERATOR'S	
DRAWN BY: D. REED	H	11	WEIL #:	
SCALE: N/A DRAWING NO: 2018-675 WELL LOCATION PLAT	STATE: WV	COUNTY: BROOKE	DISTRICT: BUFFALO	