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

API 47 - 009 _ 00235	County BROOK	E Di	strict BUFFA	ALO	
Quad BETHANY			eld/Pool Name	بعادا المرابعة المرابعة المرابعة المرابعة	ELD WET
Farm name BETHANY COLLEG		W	ell Number	THOMAS PARKIN	ISON BRK 201H
Operator (as registered with the OO	OVAL PROPLICATION	ON COMPANY, LLC	-		
Address PO BOX 12359	City SPF	RING	State TX	Zip	77391-2359
As Drilled location NAD 83/UTN Top hole	Northing 4451460.93		g 537093.48	У	
Landing Point of Curve	Northing 4451531.13		536736.53		
Bottom Hole	Northing 4453860.37	Easting	535895.54		
Elevation (ft) 1,160.5 GL	Type of Well	New □ Existing	Type of Re	port   Interim	<b>≜</b> Final
Permit Type   Deviated   Deviated	Horizontal   Horizontal	tal 6A D Vertical	Depth Typ	e 🗆 Deep	Shallow
Type of Operation □ Convert □	Deepen Drill	Plug Back   Redrillin	ng 🗆 Rewo	ork 🛔 Stimula	ite
Well Type Brine Disposal CH	BM ■ Gas □ Oil □ Sec	ondary Recovery   Solu	tion Mining	□ Storage □ C	ther
Type of Completion ■ Single □ M Drilled with □ Cable ■ Rotary	Aultiple Fluids Produc	ced □ Brine ■Gas	□ NGL □ C	oil Other_	
Drilling Media Surface hole	Air □ Mud ■Fresh Wat	er Intermediate hol	e ■Air □	Mud □ Fresh	Water □ Brine
Production hole Air Mud					
Mud Type(s) and Additive(s) SOBM					
Date permit issued 2/2/2018	Date drilling comm	nenced2/17/2018	Date drill	ling ceased	4/7/2018
Date completion activities began	5/12/2018	Date completion activit	ies ceased	7/12/2018	3
Verbal plugging (Y/N) N	Date permission granted	N/A	Granted by_	N/A	
Please note: Operator is required to	submit a plugging applica	ation within 5 days of verl	oal permission	to plug	RECEIVED Office of Oil and Ga
Freshwater depth(s) ft	401	Open mine(s) (Y/N) dep	ths	N	OCT - 9 2018
Salt water depth(s) ft	813	Void(s) encountered (Y/		N	WV Department of nvironmental Protec
Coal depth(s) ft	347	Cavern(s) encountered (		N	
s coal being mined in area (Y/N)	N				
				Revie	wed by:



WR-35 Rev. 8/23/13

API 47- 009	_ 00235	Farm name_E	ETHANY	COLLE	GE	We	ll numberTHOI	MAS PARKINSO	N BRK 201H
CASING	Hole	Casing		New or	Grade wt/ft		Basket	Did cement circul  • Provide details	
STRINGS Conductor	Size 24		Pepth 126	Used NEW		5/94#	Depth(s)	Y Provide details	DEIOW
Surface	_		<del></del>			.50/48#	328.4	Y, 80	
Coal	17.5	13.375	191	NEW	J-34	.30/46#	320.4	1,0	
Intermediate 1	SEE SURFACE			15144					
	12.25	9.625 1	738	NEW	J-5	5/36#		Y, 2	3
Intermediate 2					<del>                                     </del>				
Intermediate 3					ļ				
Production	8.75/8.50	5.5 1	5078	NEW	P-110	-HC/20#		Y	
Tubing		2.375 6	321	NEW	P-11	10/4.7#		N	
Packer type and de	epth set							-	
Comment Details									
							·		
CEMENT	Class/Type	Number	Chien	,	Viold	Volume	e Cemer	n 1	WOC
DATA	of Cement	of Sacks	Slurry wt (ppg)		Yield Volume t <sup>1</sup> /sks) <u>(ft <sup>1</sup> )</u>		Top (M		(hrs)
Conductor	CLASS A	GROUT TO SURFACE					SURFA		24
Surface	CLASS A	491	15.60		1.20	589.2	SURFA	SURFACE 8	
Coal	SEE SURFAC	E							
Intermediate 1	CLASS A	658	15.60		1.19	783.02	SURFA	CE	8
Intermediate 2				-					
Intermediate 3		-			-		-		
Production	CLASS A	2,748	15.60	+	1.19	3270.1	2 SURFA	CE CE	24
Tubing	OLAGO A	2,140	10.00		1,19	3270.1	2 0011111		
Drillers TD (ft Deepest forma Plug back pro	tion penetrated	MARCELLUS			D (ft) 15. to (ft) N/				
Kick off depth	(ft) 5,530	_							
Check all wire	line logs run	•	lensity esistivity		ed/directi a ray		induction temperature	□sonic	
Well cored	Yes 🖪 No	Conventional	Sidewa	11	w	ere cutting	gs collected 🛚	Yes ■ No	
DESCRIBE T	HE CENTRALI	ZER PLACEMENT (	JSED FOR	EACH C	ASING S	TRING _			
INTERMEDIATE: 24		RY THIRD JOINT OF CASING							
PRODUCTION: 181 C	CENTRALIZERS - EVER	Y THIRD JOINT FROM SURFAC	E TO TOP OF CU	RVE, THEN E	VERY JOINT	UNTIL TD	<del></del> .	Office	of Oil and (
WAS WELL (	COMPLETED A	S SHOT HOLE -	Yes 🖪 N	lo Di	ETAILS			<del>001</del>	9 201
WAS WELL O	COMPLETED O	PPEN HOLE? □ Y	es 🖪 No	DET	AILS _			145.5	epartment c
WERE TRAC	ERS USED 🛚	Yes A No TY	PE OF TRA	CER(S)	USED _				

API 47- 009 _ 00235	Farm name BETHANY COLLEGE	Well number THOMAS PARKINSON BRK 201
AFI 4/	Lat it tigtile	Well ildilloci

#### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE	ATTACHMEN	1		
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	-				
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			<del>-</del>		
1			-		
		1			
				İ	
		†			
		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	<b>ATTACHMEN</b>		•			
						1		
					-			
				_				_
								RECEIVED Office of Oil and Gas
								00-
								<del>0CT - 9 2018</del>
								W Department
Please	insert additio	nal nages as s	nnlicable			-	En	WV Department of /ironmental Protection

Please insert additional pages as applicable.

API 47- 009	00235	Farm	name_BETHAN	NY COL	LEGE	Well i	number_	THOM	AS PARKIN	NSON BRK 201H
PRODUCING	FORMATION(	<u>S)</u>	<u>DEPTHS</u>							
MARCELLUS			5,983	_TVD	6,338	MD				
				-	_	_				
lease insert ad	ditional pages a	s applicable.								
GAS TEST	□ Build up □	Drawdown	□ Open Flow		OIL TEST	□ Flow □	Pump			
HUT-IN PRE	SSURE Surf	ace 2358	_psi Botto	m Hole_	psi	DURA'	TION O	F TES	Т	hrs
OPEN FLOW	Gas 5,187 mct	Oil fpd <u>535</u>	NGL bpd	bpd		GAS M				Pilot
ITHOLOGY/ ORMATION	TOP DEPTH IN FT		TOP DEPTH IN FT	BOTTO DEPTH II	N FT DESCRIE	BE ROCK TY				
	NAME TVD 0	TVD	MD 0	MD	TYPE OF	FLUID (FRE	SHWAII	ek, BKI	NE, OIL, G	AS, H <sub>2</sub> S, ETC)
	SEE	ATTACHMENT	3							
										17.01
	_								_	
lease insert ad	ditional pages a	is applicable.	l-							-
Orilling Contra	ctor SWN DRIL	LING COMPAN	ΙΥ							
Address PO BO	X 12359		City	SPRING		State	TX	_ Zip	77391-23	359
	any BAKER HU									
Address 9110 G	ROGANS MILL R	D	City	THE WO	ODLANDS	State	TX	_ Zip	77380	
	npany BJ SERV	/ICES					- 200		Series .	
ddress 2228 P	HILIPPI PIKE		City	CLARKS	BURG	State	WV	_ Zip	26301	OF RECEIVE
timulating Co		LL SERVICES		.velve=			in a		77070	Office of Oil a
	POST OAK LN #4 ditional pages a		City	HOUSTO	ON	State	TX	_ Zip	77056	UCT - 9 2
							-		E	WV Departmental Pro
Completed by	BOBBY WILLIS		Title R	EGULATO	Telepho	ne 832-796		151-	lie	Pro
ngnature /			Title K				Date _	cols	119	-

# Hydraulic Fracturing Fluid Product Component Information Disclosure

5/13/2018	Job Start Date:
5/28/2018	Job End Date:
West Virginia	State:
Brooke	County:
47-009-00235-00-00	API Number:
Southwestern Energy	Operator Name:
Thomas Parkinson BRK 201F	Well Name and Number:
40.21274228	Latitude:
-80.56409176	Longitude:
NAD83	Datum:
NC	Federal Well:
NC	Indian Well:
5,948	True Vertical Depth:
10,363,872	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	82.38715	
and	U.S. Well Services, LLC	Proppant					
			Crystalline Silica, quartz	14808-60-7	100.00000	16.57326	
HCL Acid (12.6%- 17.5%) U.S. Well S	U.S. Well Services, LLC	Bulk Acid					
			Water	7732-18-5	87.40000	0.76003	
			Hydrogen Chloride	7647-01-0	17.50000	0.17670	
VFRA-2000	U.S. Well Services, LLC	Friction Reducer					
			Water	7732-18-5	60.00000	0.04134	
			2-Propenoic acid, polymer with 2 propenamide	9003-06-9	30.00000	0.02067	m
			Hydrated light distillate (petroleum)	64742-47-8	30.00000	0.01695	D WW
IOC11219A	Nalco Champion	Anti-Bacterial Agent		A-15			nn o
			Methanol	64-17-5	60.00000	0.00869	eg eg
			Benzyl-(C12-C16 Alkyl)- Dimethyl-Ammonium Chloride	68424-85-1	30.00000	0.3/4/105	hental Prote
			Glutaraldehyde	111-30-8	10.00000	0.00184	ot of

ParaSolv 300	U.S. Well Services, LLC	Other					
			Citrus Terpenes and Terpene Extractives	Proprietary	90.00000	0.00341	
CAL16486A	Nalco Champion	Scale Inhibitor					
			Ethylene Glycol	107-21-1	30.00000	0.00158	
			Amine Triphosphate	Proprietary	30.00000	0.00142	
I-303	U.S. Well Services, LLC	Acid Corrosion Inhibitors					
			Ethylene glycol	107-21-1	40.00000	0.00038	
			Cinnamaldehyde	104-55-2	20.00000	0.00014	
			Formic acid	64-18-6	20.00000	0.00013	
			Butyl cellosolve	111-76-2	20.00000	0.00012	
			Polyether	60828-78-6	10,00000	0.00007	
			Acetophenone,thiourea,formalde hyde polymer	68527-49-1	5.00000	0.00003	
T FLUSH SYSTEM I	U.S. Well Services, LLC	Other		1.0			
			Mineral oil, petroleum distillates, hrdotreated light naphthenic	64742-53-6	100.00000	0.00056	

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)

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<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%

## MIKE RYNIAWEC BRK 201H ATTACHMENT 1

PERF REPORT								
STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG				
1	5/4/2018	14,993	14,895	36				
2	5/13/2018	14,860	14,753	42				
3	5/14/2018	14,720	14,613	42				
4	5/14/2018	14,580	14,473	42				
5	5/14/2018	14,437	14,333	42				
6	5/15/2018	14,300	14,193	4:				
7	5/16/2018	14,160	14,048	42				
8	5/17/2018	14,020	13,913	42				
9	5/17/2018	13,880	13,773	4:				
10	5/17/2018	13,740	13,633	4:				
11	5/18/2018	13,600	13,493	4:				
12	5/18/2018	13,460	13,353	42				
13	5/19/2018	13,315	13,213	4:				
14	5/19/2018		13,078	4:				
15			12,933					
16			12,793					
17			12,653					
18			12,513					
19			12,373					
20			12,233					
21			12,093					
22			11,953					
23			11,813					
24			11,673					
25			11,533					
26			11,393					
27			11,253					
28			11,113					
29			10,973					
30			10,833					
31			10,693					
32			10,553					
33			10,413					
34			10,273					
35			10,133	4				
36			9,993					
37			9,853	4				
38			9,713					
39			9,573	4				
40			9,433	4.				
41			9,293	4:				
42			9,153					
43			9,008					

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### MIKE RYNIAWEC BRK 201H ATTACHMENT 1 PERF REPORT

TENT NEI ONT							
STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG			
44	5/30/2018	8,980	8,873	42			
45	5/31/2018	8,840	8,733	42			
46	5/31/2018	8,700	8,593	42			
47	5/31/2018	8,560	8,453	42			
48	5/31/2018	8,420	8,313	42			
49	5/31/2018	8,280	8,173	42			
50	6/1/2018	8,140	8,033	42			
51	6/1/2018	8,000	7,893	42			
52	6/1/2018	7,860	7,753	42			
53	6/1/2018	7,720	7,613	42			
54	6/1/2018	7,580	7,473	42			
55	6/2/2018	7,440	7,333	42			
56	6/2/2018	7,300	7,193	42			
57	6/2/2018	7,163	7,053	42			
58	6/2/2018	7,020	6,913	42			
59	6/2/2018	6,880	6,773	42			
60	6/2/2018	6,740	6,633	42			
61	6/2/2018	6,600	6,495	42			
62	6/3/2018	6,460	6,353	42			

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#### THOMAS PARKINSON BRK 201H ATTACHMENT 2 STIM REPORT

				STIM REPORT				
			Ave	Max		Amount of		Amount of
AGE NUM	Stim Date		Treatment		The second secon	Proppant (lbs)		nitrogen/othe
1			7,545	8,488	3,868	280,180	4,753	0
2			7,473	6,952	4,062	279,920		0
3			7,635		4,665	280,580		0
4			7,430		4,584	281,360		0
5			7,516		4,474	281,050		0
6			7,413		4,270	282,540	1 1 1 1 1 1 1 1 1	0
7			7,213		4,540	278,820		0
8			7,172		4,658	279,620		0
9	-,-,-		7,164		4,673	280,220	10.000	0
10			7,251	5,271	4,423	279,520	72.0030000	0
11			7,682		4,321	280,370		0
12			7,520		4,574	281,000		0
13	5/19/2018	90	7,114	5,302	4,417	280,260		0
14	5/19/2018	89	6,830	5,863	4,522	280,470	4,517	0
15	5/19/2018	89	7,235	7,239	4,302	280,220	4,781	0
16	5/20/2018	87	7,162	5,584	4,308	282,080	4,094	0
17	5/20/2018	89	7,041	5,992	4,678	279,610	5,075	0
18	5/20/2018	88	7,071	5,534	4,437	282,240	4,382	0
19	5/21/2018	87	7,110	6,098	4,269	280,620	4,027	0
20	5/21/2018	89	7,294	6,171	4,170	280,380	5,178	0
21	5/22/2018	87	7,070	6,032	4,293	280,800	3,946	0
22	5/22/2018	88	7,340	6,237	4,387	280,560	4,469	0
23	5/23/2018	88	6,894	6,004	4,301	280,090	4,278	0
24	5/23/2018	90	6,877	5,195	4,552	280,030	5,322	0
25	5/23/2018	88	6,968	5,879	4,606	279,780	4,321	0
26			7,024		4,400	280,150		0
27			7,024		4,534	280,370		0
28			7,166		4,647	280,250		0
29	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		7,015		5,025	280,280		0
30			6,941		4,787	280,590		0
31			7,287		4,427	280,330		0
32			7,199		4,736	280,540		0
33			7,117		4,494	281,974		0
34			7,024		4,833	280,690		0
35			7,032		4,598	279,220		0
36	PROFESSION AND THE RESERVE OF THE RE		7,032		4,799			0
37			7,361		4,597	281,450		0
38			6,693		4,483	280,050		0
39	1.000							0
40			6,934 6,931		4,467 4,699	280,570		0
41			6,849		5,031	280,490	3,024	(CD
41						280,520	3,039	RECEIVED Office of Oil and
42			6,740		4,640		3,520	Office of Unit
43			6,797		4,599	280,250	3,335	Office of On O
			6,993		4,852	281,460	3,591	001
45			6,972		4,559	280,420	3,618	OCT 00
46			7,126		4,648		3,503	Wymen
47			6,574		4,830	280,500	3,852	Eunii 0
48			6,882		4,754	124747	3,430	U
49			6,658		4,700	280,470		0
50		100000000000000000000000000000000000000	6,709		4,789	281,110		0
51			6,087		4,637	280,870		0
52	200000000000000000000000000000000000000		7,518		4,602			0
53	6/1/2018	78.9	8,236	5,664	4,858	279,480	3,434	0

### THOMAS PARKINSON BRK 201H ATTACHMENT 2

STIM REPORT

					- T. T. S.				
			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	90.8	5,977	5,469	4,840	280,300	3,434	0
	55	6/2/2018	91.3	6,078	5,999	4,971	280,300	3,422	0
	56	6/2/2018	91.4	6,121	5,641	4,781	282,280	3,243	0
	57	6/2/2018	90.8	5,967	4,025	4,699	279,600	3,197	0
	58	6/2/2018	90.9	6,307	5,846	4,540	281,200	3,181	0
	59	6/2/2018	90.8	6,616	5,313	4,697	280,780	3,378	0
	60	6/2/2018	90.1	6,281	5,847	4,952	281,480	3,360	0
	61	6/3/2018	88.2	7,051	6,169	4,653	281,350	3,387	0
	62	6/3/2018	85	6,593	6,131	4,507	271,300	3,187	0

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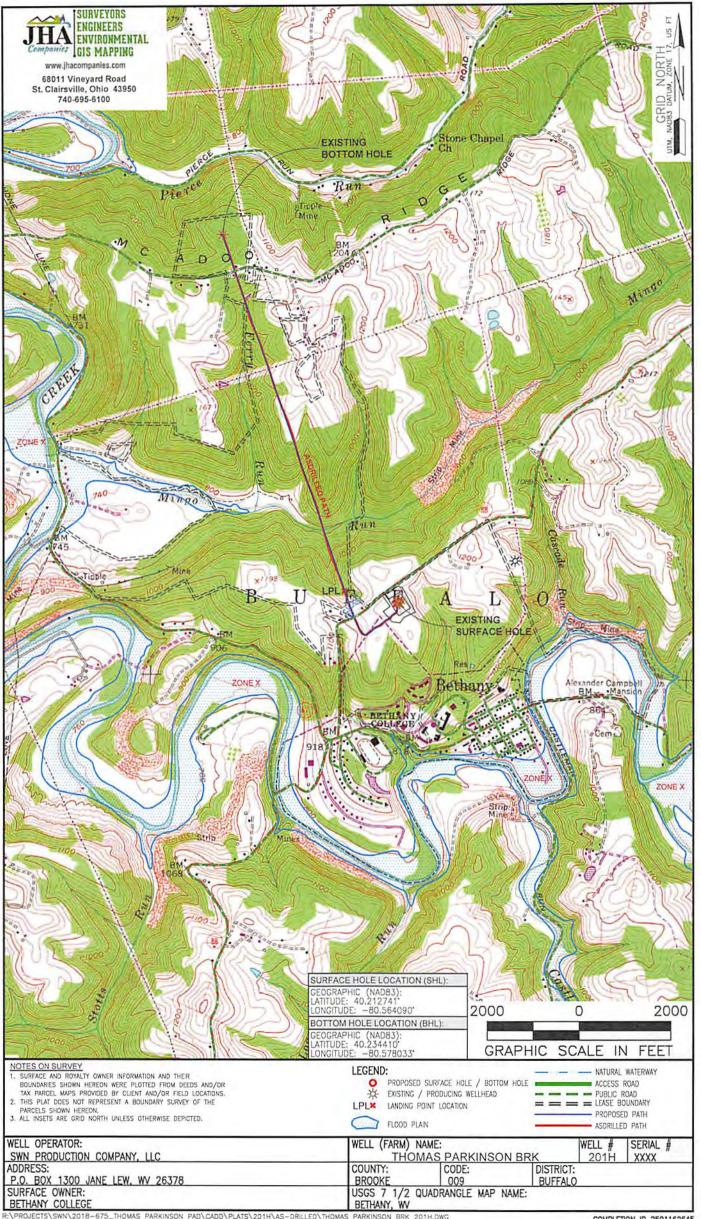


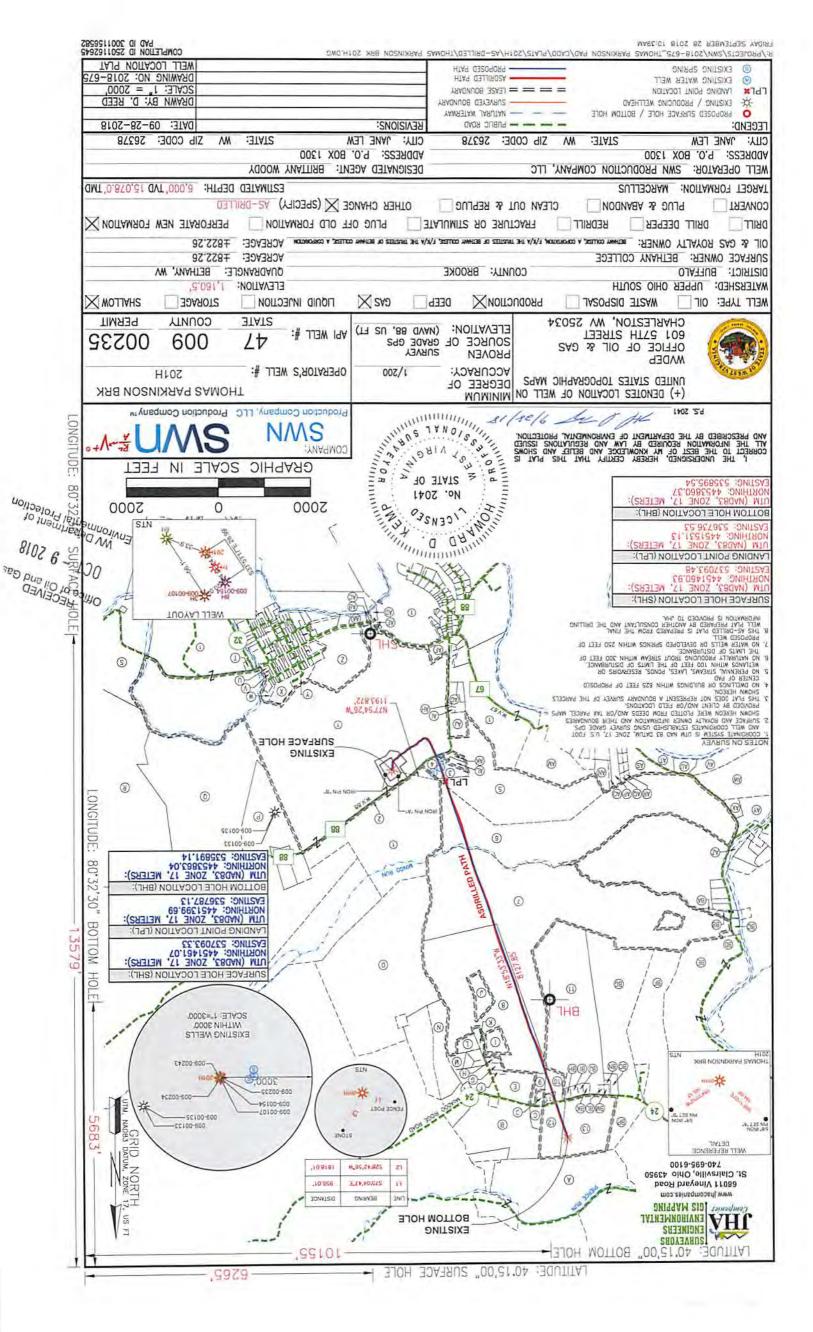
Well Name: Thomas Parkinson BRK 201H

47009002350000

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)	5652.00	5527.00	5809.00	5671.00	
Cashaqua (shale)	5809.00	5671.00	5873.00	5727.00	
Middlesex (shale)	5873.00	5727.00	5958.00	5795.00	
Burket (shale)	5958.00	5795.00	5976.00	5809.00	
Tully (Is)	5976.00	5809.00	6054.00	5863.00	
Mahantango (shale)	6054.00	5863.00	6338.00	5983.00	
Marcellus (shale)	6338.00	5983.00	NA	NA	GAS



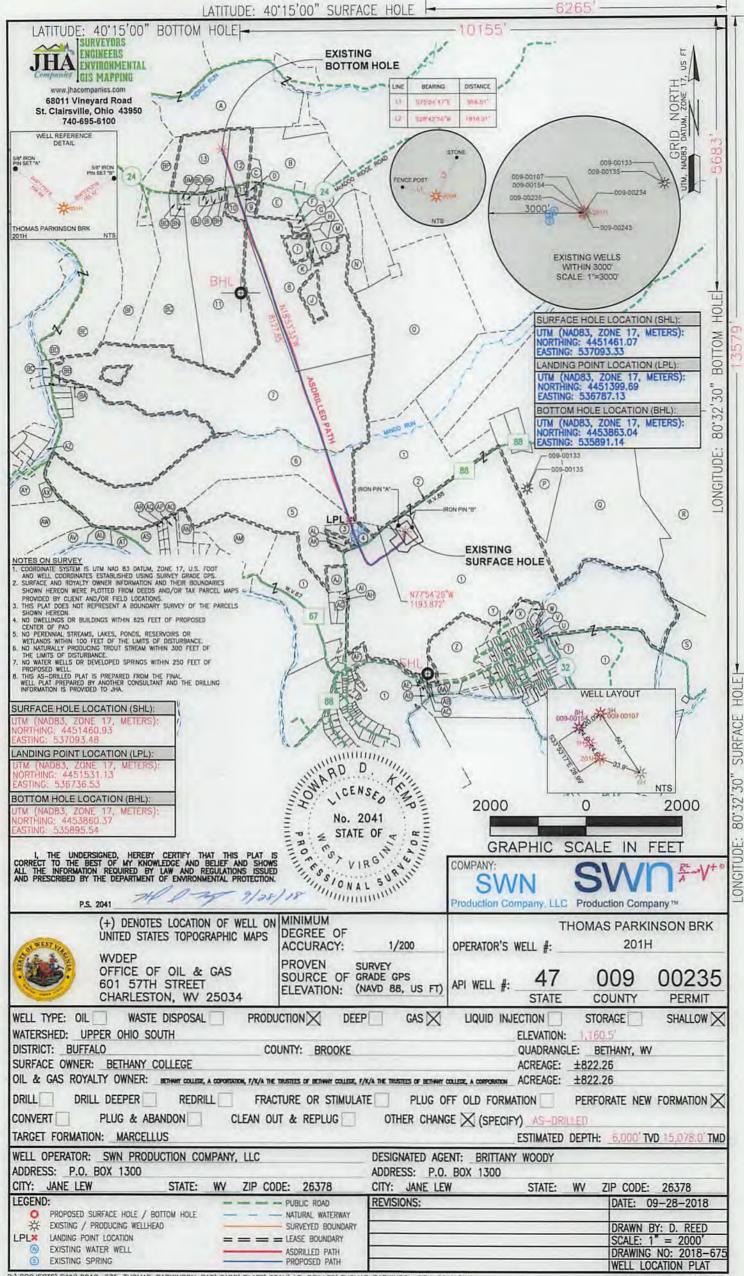




	WELL BORE TABLE FOR SURFACE / ROYALTY OV	VNERS
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	BETHANY COLLEGE (S) / BETHANY COLLEGE, A CORPORATION, F/K/A THE TRUSTEES OF BETHANY COLLEGE, F/K/A THE TRUSTEES OF BETHANY COLLEGE, A CORPORATION (R)	03-B38-0031.0000
TRACT	SURFACE OWNER	TAX PARCEL
2	WY DOT, DIVISION OF HIGHWAYS	BEALL'S RIDGE RD
3	DAVID OWENS & LINDA WALTERS	03-B38-0033.0000
4	DAVID OWENS & LINDA WALTERS	03-B38-0032.0000
5	ALLEN JOHNSON, WARREN JOHNSON, DEBORAH CRAIG, CHARLES JOHNSON & VICTORIA LYNN DWENS	03-038-0036.0000
6	MELVIN PELUCHETTE	03-B37-0063,0000
7	STARVAGGI INDUSTRIES, INC	03-837-0053.0000
8	JOHN H., JR. & STEPHANIE PROELLOCHS; KEVIN & JODIE RAY	03-B38-0007.0000
9	TYLER BROWN	03-B33-0067.0000
10	TODD & SHARON JACKSON	D3-B33-D065.0000
11	WARY JANE JACKSON	03-B33-0060.0000
12	GREG & REGINA ZOLMAN	03-833-0069.0000
13	SYLVIA ELIZABETH BARR & BETTY J. WEIDNER	03-B33-0056.0000

	ADJOINING OWNERS TABLE	TAMBABOSI	
RACT	SURFACE OWNER	TAX PARCEL	
A	STARVAGGI INDUSTRIES, INC.	D3-B33-0054.0000	
В	DEBRA KAY PELAEZ	D3-B33-0071.0000	
C	LAWRENCE PAUL SMITH, SR. & PATRICIA SHERON	D3-B33-0070.0000	
D	TYLER N. BROWN	03-833-0055.0000	
E	RICHARD PACHEO	03-833-0068,000	
F	SCOTT A., II & LINDSEY LAW	03-B38-0058.0000	
G	SCOTT A., II & LINDSEY LAW	03-B38-0003.0000	
Н	NORMAN K. BOWMAN	03-838-0004.0000	
- 1	KEVIN & JODY RAY	03-B38-0006.0000	
- J.	JOHN H. PROELLEOHS, JR.	03-838-0007,000	
K	JOHN H., SR. & NANCY J. PROELLOCHS	03-B3B-0007,000	
1	ALAN L. & BETH B. KLEIN	03-B38-0008.0000	
M	N/A	03-838-0008.000	
	JOHN H., JR. & STEPHANIE PROELLOCHS; KEVIN & JODY RAY		
N		03-B38-0012.000	
0	MARK A. & GEORGIA M. FEDAK	03-B38-0014.0000	
P	KIMBERLY CARMAN WORTHLEY	03-B38-D027.0000	
Q	KIMBERLY CARMAN WORTHLEY	D3-B38-DD25.0000	
R	MARK W. DWEN & VIRGINIA BEALL KRUETZ	03-B38-0024,0000	
S	GENE CHARLES VALENTINE TRUST	03-843-0028.0000	
T	RICHARD FRANCIS GORBY	03-B43-0027.0000	
U	JAMES & KATHLEEN KEEGAN	02-9430-0037.000	
٧	BARBARA L. CHAMBERS	02-8430-0036.000	
W	BETHANY COLLEGE	02-B43C-0003.000	
X	BETHANY COLLEGE	02-B43C-0002.000	
	BETHANY COLLEGE	02-B43C-0001.000	
4			
Z	BETHANY COLLEGE	01-B438-0026,000	
AA	TRAVIS G. & GREGORY B. STRAUB	02-B43F-0084.000	
AB	GEORGE SONNEWALD, JR.	02-B43F-0082.000	
AC	GEORGE SONNEWALD, JR.	02-B43F-00B1.000	
AD	WILLIAM MITCHELL HEIRS	02-B43B-0022.000	
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AE	MITCHELL DONALD STEVEN	02-B43F-0083.000	
AF	JOHN HUFF HEIRS	DZ-B43B-0004.000	
AG	DANNY M. & SANDRA L. HOLLADAY	03-843-0003,000	
AH	DENNIS & DERRELLE RUSCHELL	03-B43-0002.000	
AL	DENNIS & DERRELLE RUSCHELL	03-B43-0001.000	
AL	RUTH GERVON, JEFFREY WOY, SUE MOORE, PATRICIA WEST & SARA WOY	03-838-0037,000	
_			
AK	DAVID G. DWENS & LINDA WALTERS	03-B38-D035.000	
AL	DAVID G. DWENS & LINDA WALTERS	03-B38-D034,000	
AM.	TERRY P. & KAREN THOMPSON	03-838-0038000	
AN	MARK T. NICHOLSON	03-B38-0045,000	
AC.	WARK T. NICHOLSON	03-838-0046,000	
AP	HARRY J. LOWE	03-838-0047.000	
-			
AQ	LESUE & GAYLENE ELSON	03-B38-0051.000	
AR	LESLIE & CAYLENE ELSON	03-838-0052.000	
AS	SHAWN C. ARACICH	03-B37-0064.000	
AT	ELLEN B. SANFORD	03-838-0056.000	
AU	JOHN B. DAUGHERTY	03-837-0065.000	
	ELLEN B. SANFORD	03-837-0075.000	
AV		1	
AW	LPS INVESTMENT PARTNERSHIP	03-837-0056,000	
AX	LOTHIE KEITH	03-B37-0057.000	
AY	THEODORE W. BUNNELL	03-837-0068.000	
AZ	JOHN E. & SHERRILL J. RIPLEY	03-837-0062.000	
BA	MARUN G., SR. & JOY CRAWFORD	03-837-0055.000	
-			
BB	LAWRENCE PAUL SMITH, SR.	03-B37-0054.000	
BC	WILLIAM E. & HAZEL E. JOHNSTON	03-837-0053,000	
BD	CLEO KLAGES	03-B37-0052,000	
BE	RICHARD ROGERS, CHERI SHARP, EDWARD O'DYER & ET AL	03-837-0048.000	
BF	MARSH LIVING TRUST	03-832-0118.000	
BG	JOHN PRATHER GOOD, JR. IRREVOCABLE TRUST	03-B38-0001.000	
BH	RICHARD L & JONI TENNANT	03-833-0064.000	
BI	MATTHEW P. TOMSHACK	03-833-0063.000	
BJ	MATTHEW P. TOMSHACK	03-833-0062.000	
BK	MARY JANE JACKSON	03-833-0061.000	
_		ALC: Yes - Area Los	
BL	STEPHEN L. & RETTA J. STEIN	03-833-0059.000	
BM	JOHN PRATHER GOOD, JR. IRREVOCABLE TRUST	03-633-0058.000	
BN	JOHN PRATHER GOOD, JR. IRREVOCABLE TRUST	03-838-0002.000	
BO	JOHN PRATHER GOOD, JR. IRREVOCABLE TRUST	03-833-0057.000	
		A CONTRACTOR OF THE PARTY OF TH	

REVISIONS:	COMPANY:	SWN Production Company, LLC		SWN <sup>R</sup> Production Company™	
	OPERATOR'S WELL #:	THOMAS PARKINSON BRK 201H		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 2501162645 PAD ID 3001156582	



COMPLETION ID 2501162645 PAD ID 3001156582

TOAOT	WELL BORE TABLE FOR SURFACE / ROYALTY OV SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
TRACT	BETHANY COLLEGE (S) / BETHANY COLLEGE, A CORPORATION, F/K/A THE	IAN PARCEL
.1	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	DAVID OWENS & LINDA WALTERS	03-838-0033.0000
4	DAVID OWENS & LINDA WALTERS	D3-B38-0032.0000
5	ALLEN JOHNSON, WARREN JOHNSON, DEBORAH CRAIG, CHARLES JOHNSON & VICTORIA LYNN OWENS	03-838-0036.0000
6	MELVIN PELUCHETTE	03-B37-0063.0000
7	STARVAGGI INDUSTRIES, INC	03-B37-0053.0000
8	JOHN H., JR. & STEPHANIE PROELLOCHS; KEVIN & JODIE RAY	03-838-0007.0000
9	TYLER BROWN	03-833-0067.0000
10	TODD & SHARON JACKSON	03-833-0065.0000
11	MARY JANE JACKSON	03-B33-0060.0000
12	GREG & REGINA ZOLMAN	03-B33-0069.0000
13	SYLVIA ELIZABETH BARR & BETTY J. WEIDNER	03-833-0056.0000

RACT	ADJOINING OWNERS TABLE SURFACE OWNER	TAX PARCEL
A	STARVAGGI INDUSTRIES, INC.	03-833-0054.000
В	DEBRA KAY PELAEZ	03-833-0071.000
C	LAWRENCE PAUL SMITH, SR. & PATRICIA SHERON	03-B33-0070.000
D	TYLER N. BROWN	03-833-0066.000
E	RICHARD PACHED	03-833-0068.000
F	SCOTT A, II & LINDSEY LAW	03-B38-0058.000
-		
G	SCOTT A., II & LINDSEY LAW	03-838-0003.000
H	NORMAN K. BOWMAN	03-838-0004.000
1	KEVIN & JODY RAY	03-B38-0006.000
J	JOHN H. PROELLCOHS, JR.	03-838-0007.000
K	JOHN H., SR. & NANCY J. PROELLOCHS	03-B38-0007.000
L	ALAN L. & BETH B. KLEIN	03-B38-0008.000
М	N/A	03-B38-0008.000
N	JOHN H., JR. & STEPHANIE PROELLOCHS; KEVIN & JODY RAY	D3-B38-0012.000
0	MARK A. & GEORGIA M. FEDAK	03-838-0014.000
P	KIMBERLY CARMAN WORTHLEY	03-B38-0027.000
0	KIMBERLY CARMAN WORTHLEY	03-B38-0025.000
R	MARK W. OWEN & VIRGINIA BEALL KRUETZ	03-B38-0024.000
-		
S	GENE CHARLES VALENTINE TRUST	03-843-0028.000
T	RICHARD FRANCIS GORBY	03-843-0027.000
U	JAMES & KATHLEEN KEEGAN	02-B43C-0037.00
٧	BARBARA L. CHAMBERS	02-B43C-0036.00
W	BETHANY COLLEGE	02-B43C-0003.00
X	BETHANY COLLEGE	02-B43C-0002.00
Y	BETHANY COLLEGE	02-B43C-0001.00
Z	BETHANY COLLEGE	01-8438-0026.00
AA	TRAVIS G. & GREGORY B. STRAUB	02-B43F-0084.00
AB	GEORGE SONNEWALD, JR.	02-B43F-0082.00
AC	GEORGE SONNEWALD, JR.	02-843F-0081.00
		In the second second second
AD	WILLIAM MITCHELL HEIRS	02-8438-0022.00
AE	MITCHELL DONALD STEVEN	02-843F-0083.00
AF	JOHN HUFF HEIRS	02-B43B-0004.00
AG	DANNY M. & SANDRA L. HOLLADAY	03-B43-0003.00
AH	DENNIS & DERRELLE RUSCHELL	03-B43-0002.00
Al	DENNIS & DERRELLE RUSCHELL	03-B43-0001.00
AJ	RUTH GERMON, JEFFREY WOY, SUE MOORE, PATRICIA WEST & SARA WOY	03-B38-0037.00
AK	DAVID G. OWENS & LINDA WALTERS	03-838-0035.00
AL	DAVID G. OWENS & LINDA WALTERS	03-B38-0034.00
AM	TERRY P. & KAREN THOMPSON	03-838-0038000
AN	MARK T. NICHOLSON	03-B38-0045.00
		1
AO	MARK T. NICHOLSON	03-838-0046.00
AP	HARRY J. LOWE	03-838-0047.00
AQ	LESLIE & GAYLENE ELSON	03-B3B-0051.00
AR	LESLIE & GAYLENE ELSON	03-838-0052.00
AS	SHAWN C. ARACICH	D3-B37-0064.00
AT	ELLEN B. SANFORD	03-838-0056.00
AU	JOHN B. DAUGHERTY	03-B37-0065.00
AV	ELLEN B. SANFORD	03-837-0076,00
AW	LPS INVESTMENT PARTNERSHIP	03-B37-0066.00
AX	LOTHIE KEITH	03-837-0067.00
	THEODORE W. BUNNELL	03-837-0067.00
AY		
AZ	JOHN E. & SHERRILL J. RIPLEY	03-B37-0062,00
BA	MARUN G., SR. & JOY CRAWFORD	03-B37-0055.00
BB	LAWRENCE PAUL SMITH, SR.	03-837-0054.00
BC	WILLIAM E. & HAZEL E. JOHNSTON	03-837-0053.00
BD	CLEO KLAGES	03-B37-0052.00
BE	RICHARD ROGERS, CHERI SHARP, EDWARD O'DYER & ET AL	03-B37-0048.00
BF	MARSH LIVING TRUST	03-B32-0118.00
BG	JOHN PRATHER GOOD, JR. IRREVOCABLE TRUST	03-838-0001.00
ВН	RICHARD L & JONI TENNANT	03-833-0064.00
BI	MATTHEW P. TOMSHACK	03-B33-0063.00
BJ	MATTHEW P. TOMSHACK	03-B33-0062.00
		100
BK	MARY JANE JACKSON	03-833-0061.00
BL	STEPHEN L & RETTA J. STEIN	03-B33-0059.00
ВМ	JOHN PRATHER GOOD, JR. IRREVOCABLE TRUST	03-B33-0058.00
BN	JOHN PRATHER GOOD, JR. IRREVOCABLE TRUST	03-B38-0002.00
BO	JOHN PRATHER GOOD, JR. IRREVOCABLE TRUST	03-B33-0057.00
BP	BRIAN BIRDSALL	03-B32-0120.00

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

MERS	WELL BORE TABLE FOR SURFACE / ROYALTY OV	
TAX PARCEL	SURFACE OWNER (S) / ROYALTY OWNER (R)	TRACT
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)	Ė
TAX PARCEL	SURFACE OWNER	TRACT
BENLL'S RIDGE RD	WV DOT, DIVISION OF HIGHWAYS	2
03-838-0033,0000	DAVID OWENS & LINDA WALTERS	L
03-838-0032.0000	DAVID OWENS & LINDA WALTERS	4
03-838-0035,0000	ALLEN JOHNSON, WARREN JOHNSON, DEBORAH CRARIC, CHARLES JOHNSON & VICTORIA LYNK OWENS	-8
03-837-0063.0000	MELVIN PELUCHETTE	ü
03-837-0053.0000	STARVAGGI INDUSTRIES, INC	T
03-838-0007.0000	JOHN H., JR. & STEPHANIE PROELLOCHS; KEVIN & JODIE RAY	H
03-833-0067.0000	WORE RILY	6
03-833-0065.0000	TODO & SHARON JACKSON	Or.
03-833-0060.0000	MARY JANE JACKSON	TT.
03-833-0069.0000	CREG & REGINA ZOLMAN	12
03-833-0056.D000	SYLVIA ELIZABETH BARR & BETTY J. WEIDNER	13-

TAX PARCEL	ADJOINING OWNERS TABLE SURFACE OWNER	RACT
	A T SOURCE CONTROL OF THE SOURCE CONTROL OF	-
03~833~0054.0000	STARWAGGI INDUSTRIES, INC.	A
03+833-0071.0000	DEBRA KAY PELAEZ	E
03-833-0070.0000	LAWRENCE PAUL SMITH, SR. & PATRICIA SHERON	3
03-833-0065.0000	TYLER N. BROWN	D
03-833-0068.0001	RICHARD PACHED	E
03-838-0058.0000	SCOTT A., II & LINDSEY LAW	7
03-838-0003.0000	SCOTT A. R & LINDSEY LAW	II.
03-838-0004,0000	NORMAN K. BOWMAN	14
03-838-0006.0000	KEVIN & JODY RAY	1
03-838-0007.0001	JOHN H. PROELLCOHS, JR.	
		-
03-838-0007.0002	JOHN H., SR. & NANCY J. PROELLOCHS	Ж
03-B38-0008,0000	ALAN L & BETH B. KLEIN	J
03-838-0008.0001	N/A	М
03-838-0012.0000	JOHN H., JR. & STEPHANE PROELLOCHS; KEVIN & JODY RAY	И
03~838-0014.0000	MARK A. & GEORGIA W. FEDAK	0
03-838-0027.0000	KIMBERLY CARMAN WORTHLEY	9
03-838-0025.0000	KIMBERLY CARMAN WORTHLEY	D
03-838-0024,0000	MARK W. OWEN & VIRCINIA BEALL KRUETZ	Я
03-843-0028.0000	CENE CHARLES VALENTINE TRUST	2
03-843-0027.0000	RICHARD FRANCIS GORBY	T
02-8430-0037.0000	JAMES & KATHLEEN KEEGAN	u
		-
02-8430-0036.0000	BARBARA L CHAMBERS	٧
02-B43C-0003.0000	BETHANK COLTEGE	.W.
02-B43C-0002.0000	BETHANY COLLEGE	X
02-843C-0001.000C	BETHANY COLLEGE	Y
01-B43B-0026.0000	BETHANY COLLEGE	2
02-843F-0084.0000	TRAVIS C. & CRECORY B. STRAUB	AA
02-B43F-0082.0000	GEORGE SONNEWALD, JR	AB
02-B43F-0081.0000	GEORGE SONNEWALD, JR.	AC
02-B43B-0022.000	MITTHW MUCHELL HEIKS	QA
02-B43F-0083.0000	100 100 100 100 100 100 100 100 100 100	-
	MITCHELL DONALD STEVEN	3A
02-B43B-0004.0000	JOHN HUFF HEIRS	AF
03-843-0003.0000	DANNY M & SANDRA L HOLLADAY	AG
03-B43-0002.0000	DENNIS & DERRELLE RUSCHELL	HA
D3-B43-0001.0000	DENNIS & DERRELLE RUSCHELL	IA.
03-838-0037.0000	RUTH GERMON, JETTHEY WOT, SUE MOORE, PATRICIA WEST & SARA WOY	LA.
03-838-0035,0000	DAVID G. DWENS & LINDA WALTERS	3KA
03-838-0034.0000	DAVID G. OWENS & LINDA WALTERS	AL I
03-838-00380000	TERRY P. & KAREN THOMPSON	MA
03-838-0045.0000	MARK T, NICHOLSON	NA.
03-838-0046.0000	MARK T. NICHOLSON	OA
03-838-0047,0000	HARRY J. LOWE	AP
117771111111111111111111111111111111111		-
03-838-0051.0000	LESUE & CAYLENE ELSON	DA
03-838-0052,0000	LESUE & GAYLENE ELSON	AR
03-837-0064.0000	SHAWN C ARACICH	AS
03-838-0056.0000	ELLEN B. SANFORD	TA
03-837-0065,0000	JOHN B. DAUGHERTY	UA
03-B37-0076.0000	ELLEN B. SANFORD	VA.
03-837-0066.0000	LPS INVESTMENT PARTNERSHIP	WA.
03-837-0067,0000	LOTHIE KEITH	XA
03-837-0068.0000	THEODORE W. BUNNELL	YA
03-837-0062,0000	JOHN E & SHERRIL J. RIPLEY	SA
	MARLIN G., SR. & JOY GRAWFORD	-
03-837-0055.0000		BA
03-037-0054.0000	LAWRENCE PAUL SMITH, SR.	86
03-837-0053.0001	WILLIAM E & HAZEL E. JOHNSTON	BC
03-837-0052,0000	CLEO KLAGES	GB.
03-B37-0048.0000	RICHARD ROGERS, CHERI SHARP, EDWARD D'OYER & ET AL	38
03-832-0118.0000	MARSH LIVING TRUST	38
03-838-0001.0000	JOHN PRATHER GOOD, JR. IRREVOCABLE TRUST	80
03-833-0064.0000	RICHARD L & JONI TENNANT	HB
03-833-0063.0000	MATTHEW P. TOMSHACK	IE
03-833-0062.0000		LB
	MATTHEW P. TOMSHACK	-
03-833-0061,0000	MARY JANE JACKSON	ЖB
03-833-0059.0000	STEPHEN L & RETTA J. STEIN	JB
03-833-0058.0000	JOHN PRATHER GOOD, JR. IRREVOCABLE TRUST	ME
03-B38-0002.0000	JOHN PRATHER GOOD, JR. IRREVOCABLE TRUST	MB
03-833-0057.0000	JOHN PRATHER GOOD, JR. IRREVOCABLE TRUST	08
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SWIN KENV+®		SWN Production Company, LLC	COMPANY:	EVISIONS:
DATE: 09-28-2018	THOMAS PARKINSON BRK 201H		OPERATOR'S WELL #:	
DRAWN BY: D. REED				
SCALE: N/A DRAWING NO: 2018-675 WELL LOCATION PLAT	STATE: WV	COUNTY: BROOKE	DISTRICT: BUFFALO	