

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

API 47-009-00271 County BROOKE District BUFFALO  
Quad BETHANY Pad Name KATHY MAYHEW BRK PAD Field/Pool Name PANHANDLE FIELD WET  
Farm name KATHY LYNN & MICHAEL MAYHEW, ET AL Well Number KATHY MAYHEW BRK 3H  
Operator (as registered with the OOG) SWN PRODUCTION COMPANY, LLC  
Address PO BOX 12359 City SPRING State TX Zip 77391-2359

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4449151.88 Easting 532116.78  
Landing Point of Curve Northing 4449309.11 Easting 532061.30  
Bottom Hole Northing 4451722.40 Easting 531005.01

Elevation (ft) 1,280.9' GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine

Mud Type(s) and Additive(s)  
SOBM

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Date permit issued 12/26/2018 Date drilling commenced 7/11/2019 Date drilling ceased 7/29/2019  
Date completion activities began 10/28/2019 Date completion activities ceased 11/19/2019  
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 370' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 622' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 454' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

*C. P. [Signature]*  
5-11-20

Reviewed by: \_\_\_\_\_

API 47-009 - 00271 Farm name KATHY LYNN & MICHAEL MAYHEW, ET AL Well number KATHY MAYHEW BRK 3H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	24	20	126	NEW	J-55/94#		Y
Surface	17.5	13.375	531	NEW	J-55/54.50#	400; 420	Y
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	1793	NEW	J-55/36#		Y, 30 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	15268	NEW	HCP-110/20#		Y
Tubing		2.875	6359	NEW	P-110/6.50#		N
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	GROUT TO SURFACE				SURFACE	24
Surface	CLASS A	436	15.60	1.20	523.2	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	721	15.60	1.19	857.99	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2,672	15.60	1.19	3,179.68	SURFACE	24
Tubing							

Drillers TD (ft) 15,268' Loggers TD (ft) 15,268'  
 Deepest formation penetrated Marcellus Shale Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 5,192'

Check all wireline logs run  caliper  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 \_\_\_\_\_

SURFACE: 7 CENTRALIZERS - EVERY THIRD JOINT OF CASING  
 INTERMEDIATE: 24 CENTRALIZERS - EVERY THIRD JOINT OF CASING  
 PRODUCTION: 181 CENTRALIZERS - EVERY THIRD JOINT FROM SURFACE TO TOP OF CURVE, THEN EVERY JOINT UNTIL TD

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/28/2019
Job End Date:	11/14/2019
State:	West Virginia
County:	Brooke
API Number:	47-009-00271-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	Kathy Mayhew BRK 3
Latitude:	40.19214359
Longitude:	-80.62268858
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,963
Total Base Water Volume (gal):	13,308,636
Total Base Non Water Volume:	0

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## 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			
HCL	SWN Well Services	Solvent					
				Listed Below			



Econo-CI200	SWN Well Services	Corrosion Inhibitor												
							Listed Below							
SWN FRW-11LC	SWN Well Services	Friction Reducer												
							Listed Below							
Ecopol-FEAC	SWN Well Services	Iron Control												
							Listed Below							
BIOC11219A	Nalco	Biocide												
							Listed Below							
Base Water	Operator	Base Fluid												
							Listed Below							
Sand	SWN Well Services	Proppant												
							Listed Below							

Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.

Water	7732-18-5	100.00000	86.03645	Density = 8.345
Crystalline Silica, quartz	14808-60-7	100.00000	13.42561	
Water	7732-18-5	85.00000	0.41622	
Hydrochloric Acid	7647-01-0	15.00000	0.06148	
Petroleum Distillates, Hydrotreated	64742-47-8	25.00000	0.02306	
Methanol	67-56-1	60.00000	0.01622	
Benzyl-(C12-C16 Alky)-Dimethyl-Ammonium	68424-85-1	30.00000	0.00811	
Chloride Glutaraldehyde	111-30-8	10.00000	0.00270	

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		Ammonium Chloride	12125-02-9	2.00000	0.00184
		Ethylene glycol	107-21-1	30.00000	0.00181
		Amine Triphosphate	Proprietary	30.00000	0.00181
		Alcohols, C12-1, ethoxylated	68551-12-2	1.50000	0.00138
		Oleic Acid	93-83-4	1.50000	0.00138
		Diethanolamide			
		Acetic Acid	64-19-7	37.50000	0.00082
		Methanol	67-56-1	80.00000	0.00050
		Citric Acid	77-92-9	22.50000	0.00049
		Oxyalkylated fatty acid	68951-67-7	9.67400	0.00006
		Fatty acids	61790-12-3	5.02700	0.00003
		Modified thiourea polymer	68527-49-1	4.74600	0.00003
		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%

\*\*\* 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

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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**KATHY MAYHEW BRK 3H  
ATTACHMENT 1  
PERF REPORT**

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	9/29/2019	15,223	15,128	36
2	10/28/2019	15,095	14,913	36
3	10/29/2019	14,879	14,697	36
4	10/29/2019	14,663	14,485	36
5	10/29/2019	14,447	14,265	36
6	10/29/2019	14,231	14,049	36
7	10/29/2019	14,015	13,833	36
8	10/30/2019	13,799	13,620	36
9	10/30/2019	13,583	13,401	36
10	10/31/2019	13,362	13,186	36
11	10/31/2019	13,152	12,970	36
12	11/1/2019	12,936	12,754	72
13	11/1/2019	12,720	12,543	36
14	11/2/2019	12,504	12,322	36
15	11/2/2019	12,288	12,106	72
16	11/3/2019	12,070	11,890	36
17	11/3/2019	11,856	11,674	36
18	11/3/2019	11,640	11,458	36
19	11/3/2019	11,424	11,242	36
20	11/3/2019	11,208	11,031	36
21	11/4/2019	10,992	10,810	72
22	11/4/2019	10,774	10,594	36
23	11/5/2019	10,560	10,378	36
24	11/5/2019	10,344	10,162	36
25	11/6/2019	10,128	9,946	36
26	11/6/2019	9,912	9,730	36
27	11/7/2019	9,697	9,514	36
28	11/7/2019	9,485	9,299	36
29	11/7/2019	9,265	9,083	36
30	11/8/2019	9,049	8,867	36
31	11/8/2019	8,833	8,653	36
32	11/9/2019	8,617	8,435	36
33	11/9/2019	8,396	8,219	72
34	11/11/2019	8,185	8,003	72
35	11/11/2019	7,969	7,783	72
36	11/12/2019	7,753	7,571	36
37	11/13/2019	7,537	7,355	36
38	11/13/2019	7,321	7,141	36
39	11/13/2019	7,105	6,923	36
40	11/13/2019	6,892	6,707	36
41	11/14/2019	6,673	6,491	36
42	11/14/2019	6,457	6,275	36

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KATHY MAYHEW BRK 3H

ATTACHMENT 2

STIM REPORT

STAGE NUM	Stim Date	Ave Pump Rate (BPM)	Ave Treatment	Max Breakdown	ISIP (PSI)	Amount of Proppant (lbs)	Amount of water bbls	Amount of nitrogen/othe
1	10/28/2019	66	7,448	8,254	3,978	240,864	5,523	0
2	10/28/2019	84	7,410	4,389	4,450	423,593	7,647	0
3	10/29/2019	97	7,578	4,717	4,007	418,516	7,363	0
4	10/29/2019	92	7,444	4,712	4,480	422,485	7,204	0
5	10/29/2019	92	7,398	4,812	3,931	421,279	7,455	0
6	10/29/2019	97	7,499	4,331	4,088	421,096	7,167	0
7	10/30/2019	97	7,412	5,519	4,628	419,890	7,179	0
8	10/30/2019	58	7,739	4,995	4,628	417,870	9,881	0
9	10/31/2019	93	7,650	5,708	4,340	418,920	7,509	0
10	10/31/2019	90	7,632	5,626	4,237	352,632	6,360	0
11	11/1/2019	82	8,057	5,477	4,164	420,015	7,849	0
12	11/1/2019	64	6,800	5,613	4,691	416,440	10,205	0
13	11/1/2019	89	8,159	5,638	4,083	419,430	6,760	0
14	11/2/2019	68	7,457	5,249	4,381	417,455	8,680	0
15	11/2/2019	68	6,628	5,499	4,330	414,300	10,196	0
16	11/3/2019	91	7,512	5,240	4,261	410,792	6,666	0
17	11/3/2019	89	7,341	5,487	4,465	423,998	7,797	0
18	11/3/2019	94	7,093	5,514	4,303	416,610	6,754	0
19	11/3/2019	87	7,193	5,770	4,254	418,655	6,555	0
20	11/4/2019	92	7,137	5,297	4,312	418,200	6,529	0
21	11/4/2019	69	7,069	5,602	4,242	419,875	10,655	0
22	11/5/2019	87	7,302	5,354	4,454	420,245	6,399	0
23	11/5/2019	95	7,063	5,490	4,385	418,920	6,827	0
24	11/5/2019	83	7,528	5,321	4,396	419,145	6,713	0
25	11/6/2019	63	9,072	4,803	4,376	418,735	9,973	0
26	11/7/2019	94	7,073	5,642	4,193	417,750	6,792	0
27	11/7/2019	88	6,789	4,812	4,429	416,105	6,286	0
28	11/7/2019	90	6,908	5,105	4,621	416,988	6,769	0
29	11/8/2019	90	6,769	4,998	4,250	417,460	6,767	0
30	11/8/2019	88	6,921	4,610	4,465	420,375	6,177	0
31	11/9/2019	90	6,787	4,958	4,327	417,115	6,175	0
32	11/9/2019	87	6,904	4,976	4,397	419,640	6,248	0
33	11/9/2019	64	7,170	5,578	4,366	420,250	11,057	0
34	11/11/2019	67	6,997	6,008	4,505	421,435	10,898	0
35	11/12/2019	83	6,173	5,307	4,348	420,994	8,767	0
36	11/12/2019	80	6,160	5,056	4,466	416,217	5,950	0
37	11/13/2019	93	6,661	4,873	4,503	419,135	8,537	0
38	11/13/2019	99	6,662	4,825	4,565	420,039	7,215	0
39	11/13/2019	94	6,600	5,051	4,565	420,581	7,061	0
40	11/14/2019	92	6,521	5,110	4,314	417,166	7,145	0
41	11/14/2019	98	6,457	5,029	4,170	409,010	7,126	0
42	11/14/2019	92	6,541	5,716	4,063	410,289	7,467	0

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Well Name: Kathy Mayhew BRK 3H

47009002710000

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	370.00	370.00	
Pittsburgh Coal	454.00	454.00	459.00	459.00	
Top of Salt Water	622.00	622.00	NA	NA	
Pottsville (ss)	622.00	622.00	745.00	745.00	
Raven Cliff (ss)	940.00	939.00	1111.00	1110.00	
Maxton (ss)	1212.00	1210.00	1457.00	1455.00	
Big Lime (ls)	1457.00	1455.00	1596.00	1594.00	
Big Injun (ss)	1596.00	1594.00	1751.00	1749.00	
Berea (siltstone)	2037.00	2037.00	2145.00	2145.00	
Rhinestreet (shale)	5497.00	5472.00	5757.00	5711.00	
Cashaqua (shale)	5757.00	5711.00	5822.00	5762.00	
Middlesex (shale)	5822.00	5762.00	5909.00	5824.00	
Burket (shale)	5909.00	5824.00	6011.00	5829.00	
Tully (ls)	5932.00	5839.00	6021.00	5894.00	
Mahantango (shale)	6021.00	5894.00	6207.00	5980.00	
Marcellus (shale)	6207.00	5980.00	NA	NA	GAS

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	KATHY LYNN & MICHAEL MAYHEW, ET AL (S/R)	03-B42-0027.0000
TRACT	SURFACE OWNER	TAX PARCEL
2	JAY GLEN COLLINS	03-B41-0080.0000
3	HENRY MIKELS & BONNIE J. BURKETT	03-B41-0086.0001
4	HARRY W. & TONETTE ALWARD	03-B41-0117.0001
5	RICHARD A. & PRISCILLA OLIVER	03-B41-0115.0000
6	HAROLD D. & EVELYN C. GRIFFIN	03-B41-0113.0000
7	KADESH CHAPEL CEMETERY	03-B41-0111.0000
8	KADESH CHAPEL UNITED METHODIST CHURCH	03-B41-0110.0000
9	KADESH CHAPEL CEMETERY & KADESH CHAPEL METHODIST EPISCOPAL CHURCH	03-B41-0108.0000
10	LORETTA JOAN BASIL	03-B41-0099.0000
11	CAROL L. DUFFY	03-B36-0113.0000
12	VEMURI HOME & GARDENS, LLC	03-B36-0111.0000
13	ROBERT & GEORGIA FATHERINGHAM	03-B36-0109.0000
14	FREDERICK B. & JULIE M. DAVIS	03-B36-0108.0000
15	MARK PHILLIPS (J), GAIL ATKINSON (J) & ET AL	03-B36-0107.0000
16	TREVOR SEAN RICHMAN	03-B36-0106.0000
17/AJ	<b>BEECH BOTTOM VOLUNTEER FIRE DEPARTMENT</b>	<b>03-B36-0105.0000</b>
18	WINDSOR POWER HOUSE COAL COMPANY	03-B36-0104.0000

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	BETSY D. TUSTIN	03-B47-0002.0001
B	JAMES LAMONT	03-B47-0001.0000
C	DALE T. & MARY R. WOOD	03-B46-0046.0000
D	DALE T. & MARY R. WOOD	03-B41-0084.0000
E	BARRY L. & PATRICIA A. GREATHOUSE	03-B41-0082.0000
F	ROBERT J., JR. & LINDA MILLER	03-B41-0047.0000
G	WILLIAM & DAWNA MILLER	03-B41-0061.0000
H	SANDRA W. BUTLER	03-B41-0071.0000
I	SANDRA W. BUTLER	03-B41-0078.0000
J	JOSEPH P., SR. & ROBIN M. SCRIP	03-B41-0080.0002
K	JAY G. COLLINS	03-B41-0079.0000
L	JAY COLLINS	03-B41-0085.0000
M	ETHEL I. SCHERICH	03-B41-0073.0000
N	DEWAYNE E. & ALBERTA J. KELLER	03-B41-0087.0000
O	GARY MORRIS	03-B41-0090.0000
P	GARY A. MORRIS, SR.	03-B41-0093.0000
Q	CHARLES J. & D. LA VAUGHN SUTER	03-B41-0094.0000
R	ELIZABETH ELLEN FLUHARTY	03-B41-0095.0000
S	HAROLD, JR. & LINDA GRIFFIN	03-B41-0112.0000
T	JEFF & REGINA M. VANCAMP	03-B41-0097.0000
U	REBECCA A. LOWMILLER	03-B41-0096.0000
V	ERNEST F. & JOANNE P. CAPP	03-B41-0098.0000
W	ERNEST F. & JOANNE CAPP	03-B41-0064.0000
X	ERNEST F. & JOANNE CAPP	03-B41-0052.0000
Y	WINDSOR POWER HOUSE COAL COMPANY	03-B41-0049.0000
Z	WINDSOR POWER HOUSE COAL COMPANY	03-B36-0103.0000
AA	WINDSOR POWER HOUSE COAL COMPANY	03-B36-0101.0000
AB	WINDSOR POWER HOUSE COAL COMPANY	03-B36L-0036.0000
AC	KEITH L. HAMILTON	03-B36L-0035.0000
AD	KEITH HAMILTON	03-B36L-0037.0000
AE	FLOYD R. & DORIS M. LOUGHRIE	03-B36L-0038.0000
AF	TAMMY S. MASSEY	03-B36L-0039.0000
AG	COLUMBIA GAS COMPANY	03-B36-0144.0000
AH	LYNN COULTER, DAVID COULTER & ET AL	03-B36-0143.0000
AI	BRIAN L. TESLOVICH	03-B36-0145.0000
AJ	MARK A. & MELODY J. ADAMS	03-B36-0142.0000
AK	MARK A. & MELODY J. ADAMS	03-B36-0139.0000
AL	CONNIE S. & SHAROLD D. BRITT	03-B36-0141.0000
AM	VEMURI HOME & GARDEN, LLC	03-B36-0140.0000
AN	MARK A. & MELODY J. ADAMS	03-B36-0139.0000
AO	SCOTTY B. & AMY L. COEN	03-B36-0138.0000
AP	MARK LLOYD & JOANN VANHORN	03-B36-0114.0000
AQ	ALFRED B., JR. & CATHY COEN	03-B36-0112.0000
AR	DONNA HARMS & ET AL (L/E: LEE B. & GAYLE B. HARMS)	03-B36-0115.0000
AS	DONNA HARMS & ET AL (L/E: LEE B. & GAYLE B. HARMS)	03-B36-0116.0000
AT	JEFFREY ALAN FERRY & ET AL (L/E: MAX F. & PATRICIA FERRY)	03-B36-0117.0000
AU	MARK LLOYD & JOANN VANHORN	03-B36-0118.0000
AV	JOHN, SR. & MAXINE GEORGE	03-B41-0100.0000
AW	ERVAN R. COWAN, RICHARD COWAN, DIANE DIGHT & JODY TENNANT	03-B41-0101.0000
AX	WILLIAM J. & SANDRA L. COCHRAN	03-B41-0102.00000
AY	WAYNE J. & KASSI JO SMITH	03-B41-0103.0000
AZ	WAYNE J. & KASSI JO SMITH	03-B41-0104.0000
BA	ROGER & KAREN SNODDERLY	03-B41-0105.0000
BB	ROGER L. & KAREN A. SNODDERLY	03-B41-0106.0000
BC	KADESH CHAPEL CEMETERY	03-B41-0107.0000
BD	KADESH CHAPEL CEMETERY	03-B41-0109.0000
BE	JOAN C. ARACICH	03-B41-0119.0000
BF	JOAN C. ARACICH	03-B41-0114.0000
BG	THOMAS H. & JOYCE K. MOZINGO	03-B41-0116.0000
BH	MARK MILLER	03-B41-0117.0000
BI	JASON D. & MARY E. WHITE	03-B41-0086.0002
BJ	JASON D. & MARY WHITE	03-B41-0086.0003
BK	JASON D. & MARY E. WHITE	03-B41-0086.0000
BL	ROBERT D., II & LESLIE C. HILDEBRAND	03-B42-0063.0000
BM	FRANK G. & KELLY L. AINSCOUGH	03-B42-0071.0000
BN	HENRY HEINZROTH	03-B42-0032.0000
BO	LUTHER GRIZZEL	03-B42-0030.0000
BP	LUTHER GRIZZEL	03-B42-0031.0000
BQ	LUTHER GRIZZEL	03-B42-0029.0000
BR	ELIZABETH ELLEN FLUHARTY	03-B47-0018.0000
BS	JOSEPH S. & JANE M. BUREK	03-B47-0019.0000
BT	DAVID MCCLURE	03-B36-0110.0000
BU	MARK & TRINA PROVENZANO	03-B41-0080.0001

REVISIONS:

COMPANY:

**SWN**  
Production Company, LLC

**SWN** *R<sup>+</sup>V<sup>+</sup>0*  
A  
Production Company™

OPERATOR'S KATHY MAYHEW

DATE: 01-15-2020

WELL #: BRK 3H

DRAWN BY: R. GRIMES

DISTRICT:  
BUFFALO

COUNTY:  
BROOKE

STATE:  
WV

SCALE: N/A  
DRAWING NO: 2018-341  
WELL LOCATION PLAT



WELL LOCATION PLAN		DRAWING NO. 2018-341		SCALE: N/A		DRAWN BY: R. GRIMES		DATE: 01-12-2020	
BUFFALO		DISTRICT:		WELL #:		OPERATOR'S:		KATHY MAYHEW	
COUNTY:		STATE:		BRK 3H		COMPANY:		Production Company LLC	
BROOKE		WV						Production Company LLC	



Production Company LLC



Production Company LLC

COMPANY:

REVISIONS:

TRACT	SURFACE OWNER	TAX PARCEL
18	WINDSOR POWER HOUSE COAL COMPANY	03-B28-0104.0000
17A	<b>BEECH BOTTOM VOLUNTEER FIRE DEPARTMENT</b>	<b>03-B28-0102.0000</b>
16	TREVOR SEAN RICHMAN	03-B28-0106.0000
15	MARK PHILLIPS (I), DALL ATKINSON (I) & ET AL	03-B28-0107.0000
14	FREDERICK B & JULIE M DAVIS	03-B28-0108.0000
13	ROBERT & GEORGIA FATHERINGHAM	03-B28-0109.0000
12	VENURI HOME & GARDENS, LLC	03-B28-0111.0000
11	CAROL J DUFFY	03-B28-0112.0000
10	LORRETTA JOAN BASIL	03-B41-0089.0000
9	KADESH CHAPEL CEMETERY & KADESH CHAPEL METHODIST EPISCOPAL CHURCH	03-B41-0108.0000
8	KADESH CHAPEL UNITED METHODIST CHURCH	03-B41-0110.0000
7	KADESH CHAPEL CEMETERY	03-B41-0111.0000
6	HAROLD D & EVELYN C GRIFFIN	03-B41-0113.0000
5	RICHARD A & PRISCILLA OLVER	03-B41-0115.0000
4	HARRY W & TONETTE ALWARD	03-B41-0117.0001
3	HENRY MIKELS & BONNE J BURKETT	03-B41-0086.0001
2	JAY GLEN COLLINS	03-B41-0080.0000
1	KATHY LYNN & MICHAEL MAYHEW, ET AL (2)(R)	03-B42-0027.0000

TRACT	SURFACE OWNER	TAX PARCEL
BU	MARK & TRINA PROVENZANO	03-B41-0080.0001
BT	DAVID MCCLURE	03-B28-0110.0000
BS	JOSEPH S & JANE M BURKE	03-B41-0019.0000
BR	ELIZABETH ELLEN FLUHRARY	03-B41-0018.0000
BD	LUTHER GRIZZEL	03-B42-0029.0000
BP	LUTHER GRIZZEL	03-B42-0021.0000
BQ	LUTHER GRIZZEL	03-B42-0020.0000
BH	HENRY HEINZROTH	03-B42-0023.0000
BI	FRANK C & KELLY J WINGCLOUGH	03-B42-0021.0000
BJ	ROBERT D, II & LESLIE C HILDBRAND	03-B42-0082.0000
BK	JASON D & MARY E WHITE	03-B41-0086.0000
BL	JASON D & MARY WHITE	03-B41-0086.0002
BM	JASON D & MARY WHITE	03-B41-0086.0003
BN	MARK MILLER	03-B41-0117.0000
BO	THOMAS H & JOYCE K MOWINGO	03-B41-0118.0000
BP	JOAN C ARACICH	03-B41-0114.0000
BQ	JOAN C ARACICH	03-B41-0119.0000
BR	JOAN C ARACICH	03-B41-0119.0000
BS	KADESH CHAPEL CEMETERY	03-B41-0109.0000
BT	KADESH CHAPEL CEMETERY	03-B41-0107.0000
BU	ROGER J & KAREN A SHODERLY	03-B41-0106.0000
BV	ROGER & KAREN SHODERLY	03-B41-0105.0000
BW	WAYNE J & KASSI JO SMITH	03-B41-0104.0000
BX	WAYNE J & KASSI JO SMITH	03-B41-0103.0000
BY	WILLIAM J & SANDRA J COCHRAN	03-B41-0102.0000
BZ	LUDY TENANT	03-B41-0101.0000
CA	ERVAN R COWAN, RICHARD COWAN, DIANE DIGHT & JOHN SR, & MAXINE GEORGE	03-B41-0100.0000
CB	MARK LLOYD & JOANN VANHORN	03-B28-0118.0000
CC	JEFFREY JANA FERRY & ET AL (L/E, MAX F & PATRICIA FERRY)	03-B28-0117.0000
CD	DOMINA HARMS & ET AL (L/E, LEE B & GAYLE B HARMS)	03-B28-0116.0000
CE	DOMINA HARMS & ET AL (L/E, LEE B & GAYLE B HARMS)	03-B28-0115.0000
CF	ALFRED B, JR & CATHY COEN	03-B28-0112.0000
CG	MARK LLOYD & JOANN VANHORN	03-B28-0114.0000
CH	SCOTTY B & AMY L COEN	03-B28-0128.0000
CI	MARK A & MELDY J ADAMS	03-B28-0129.0000
CJ	MARK A & MELDY J ADAMS	03-B28-0129.0000
CK	CONNE S & SHAROLD D BRITT	03-B28-0141.0000
CL	VENURI HOME & GARDEN, LLC	03-B28-0140.0000
CM	MARK A & MELDY J ADAMS	03-B28-0142.0000
CN	MARK A & MELDY J ADAMS	03-B28-0143.0000
CO	LYNN COUTLER, DAVID COUTLER & ET AL	03-B28-0145.0000
CP	BRIAN J TESTOVICH	03-B28-0145.0000
CQ	COLUMBIA GAS COMPANY	03-B28-0144.0000
CR	TAMMY S MASSEY	03-B28-0029.0000
CS	FLOYD R & DORIS M LUGHRIE	03-B28-0028.0000
CT	KEITH HAMILTON	03-B28-0027.0000
CU	KEITH HAMILTON	03-B28-0027.0000
CV	WINDSOR POWER HOUSE COAL COMPANY	03-B28-0028.0000
CW	WINDSOR POWER HOUSE COAL COMPANY	03-B28-0101.0000
CX	WINDSOR POWER HOUSE COAL COMPANY	03-B28-0103.0000
CY	WINDSOR POWER HOUSE COAL COMPANY	03-B41-0089.0000
CA	ERNEST F. & JOANNE CARP	03-B41-0025.0000
CB	ERNEST F. & JOANNE CARP	03-B41-0084.0000
CC	ERNEST F. & JOANNE CARP	03-B41-0088.0000
CD	REBECCA A LOWMILLER	03-B41-0086.0000
CE	JEFF & REGINA M VANCAMP	03-B41-0097.0000
CF	HAROLD, JR & LINDA GRIFFIN	03-B41-0115.0000
CG	ELIZABETH ELLEN FLUHRARY	03-B41-0085.0000
CH	CHARLES J & D. LA VANUGHN SUTER	03-B41-0094.0000
CI	GARY MORRIS	03-B41-0083.0000
CJ	GARY A MORRIS, SR	03-B41-0083.0000
CK	GARY MORRIS	03-B41-0080.0000
CL	DEWAYNE E & ALBERTA J KELLER	03-B41-0087.0000
CM	ETHEL I SCHERICH	03-B41-0073.0000
CN	JAY COLLINS	03-B41-0082.0000
CO	JAY G COLLINS	03-B41-0079.0000
CP	JOSEPH P, SR & ROBIN M SCRIP	03-B41-0080.0002
CQ	SANDRA W BUTLER	03-B41-0078.0000
CR	SANDRA W BUTLER	03-B41-0071.0000
CS	WILLIAM & DAWN MILLER	03-B41-0081.0000
CT	ROBERT J, JR & LINDA MILLER	03-B41-0047.0000
CU	BARRY J & PATRICIA A GREATHOUSE	03-B41-0082.0000
CV	DALE T & MARY R WOOD	03-B41-0084.0000
CW	DALE T & MARY R WOOD	03-B42-0046.0000
CX	JAMES LAMONT	03-B41-0002.0001
CY	BETSY D LUSTIN	03-B41-0002.0001

ADJOINING OWNERS TABLE

WELL BORE TABLE FOR SURFACE \ ROYALTY OWNERS