



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

Via Federal Express

September 21, 2017

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

REGEIVED
Office of Oil and Gas

SEP 2 5 2017

WV Department of Environmental Protection

RE:

SWN Production Company, LLC

Operator ID: 494512924

Regulatory Filings: WR-34 & WR-35 Filing

grantham

To Whom It May Concern:

Please find enclosed forms WR-34-No Discharge, WR-35 Well Operator's Report of Well Work for the following wells:

Quality Reclamation MRN 10H (API 47-049-02425)
Quality Reclamation MRN 210H (API 47-049-02424)

If you have any questions or require additional information, please contact me via email at denise_grantham@swn.com or telephone at (832) 796-6139.

Sincerely,

Denise Grantham Regulatory Technician West Virginia Division

/dg Encl.

R2 nV+°

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

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SEP 2 5 2017

WV Department of Environmental Protection District PAW PAW 47 - 049 County MARION 02425 API Quad GRANT TOWN, WV Pad Name QUALITY RECLAMATION-MRN-PAD1 Field/Pool Name OSAGE FIELD DRY Well Number QUALITY RECLAMATION MRN 10H Farm name JAMES AND DOROTHY ICE, MAJORIE A. KOPP SWN PRODUCTION COMPANY, LLC Operator (as registered with the OOG) City SPRING Zip 77391-2359 Address PO BOX 12359 State TX As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey Northing 4,380,739.807 Easting 572,053.871 Top hole Easting 573,308.989 Northing 4,380,643.225 Landing Point of Curve Northing 4,377,797.311 Easting 573,396.655 **Bottom Hole** Elevation (ft) 1224.5' GL Type of Well New Existing Type of Report □Interim ■Final Permit Type Deviated Horizontal ■ Horizontal 6A □ Vertical Depth Type Shallow Deep Type of Operation □ Convert □ Deepen ■ Drill □ Plug Back □ Redrilling □ Rework ■ Stimulate Well Type □ Brine Disposal □ CBM ■ Gas □ Oil □ Secondary Recovery □ Solution Mining □ Storage □ Other _____ □ Other ____ Type of Completion ■ Single □ Multiple Fluids Produced

Brine #Gas □ NGL □ Oil Drilled with

Cable **■** Rotary Drilling Media Surface hole Air D Mud Fresh Water Intermediate hole Air DMud DFresh Water DBrine Production hole Air Mud □ Fresh Water □ Brine Mud Type(s) and Additive(s) SOBM 01/13/2017 02/04/2017 03/24/2017 Date permit issued Date drilling commenced_ Date drilling ceased 05/12/2017 06/29/2017 Date completion activities began Date completion activities ceased N/A N/A Verbal plugging (Y/N) Date permission granted Granted by_ Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug 354 N Freshwater depth(s) ft ____ Open mine(s) (Y/N) depths 608 N Salt water depth(s) ft Void(s) encountered (Y/N) depths 546' Coal depth(s) ft Cavern(s) encountered (Y/N) depths Ν Is coal being mined in area (Y/N)

Reviewed by:

WR-35 Rev. 8/23/13

Rev. 8/23/13										. go 0
API 47- 049	02425	Farm na	me	MES AND DORO	THY ICE,	MAJORIE A.	KOPP_W6	ell number_	QUALITY RE	CLAMATION MRN 10H
CASING STRINGS	Hole Size	Casing Size	Dej		ew or Jsed	Grade wt/ft		Basket Depth(s)		nent circulate (Y/ N) ide_details_below*
Conductor	24	20	12		NEW	J-59	5/94#			Y
Surface	17.5	13.375	58	18	NEW	J-55	/54.5#		Y; 24	BBLS RETURNED
Coal	SEE SURFACE								_	
Intermediate I	12.25	9.625	32 ⁻	19 ľ	NEW	J-5	5/36#		Y; 77	BBLS RETURNED
Intermediate 2										
Intermediate 3										
Production	8.75/8.50	5.5	183	149	NEW	HCP-	110/20#			ΥΥ
Tubing		2.375	828	80 i	NEW	L-80)/4.7#			N
Packer type and d	epth set									
Comment Details										
CEMENT DATA	Class/Type of Cement	Number of Sacks		Slurry wt (ppg)		ield '/sks)	Volum (fl.²_)		Cement op (MD)	WOC (hrs)
Conductor	CLASS A	GROUT TO SU		(PPB)	T '.				JRFACE	24
Surface	CLASS A	535		15.60	1	.20	642	SI	JRFACE	8
Coal	SEE SURFA	CE								
Intermediate I	CLASS A	1246		15.60		1.18	1470.2	28 SI	JRFACE	8
Intermediate 2				-						
Intermediate 3	<u> </u>									
Production	CLASS A	3160		15.60	<u> </u>	1.19	3760.	4 SI	JRFACE	24
Tubing										
•	ition penetrated	MARCELLUS				D (ft) 183 to (ft) N/A		-		
Kick off depth	(ft) <u>7244'</u>				_					
Check all wire	eline logs run	a caliper neutron		•	deviate	ed/direction		induction temperatur	re 🗆 soni	ic
Well cored	Yes A No	Conventio	nal	Sidewall		W	ere cuttin	gs collected	i □ Yes	■ No
DESCRIBE T	HE CENTRAL	IZER PLACEME	NT US	SED FOR E	ACH C	ASING ST	rring _			
SURFACE: 7 CENTE	ALIZERS - EVERY THI	RD JOINT OF CASING								
INTERMEDIATE: 24	CENTRALIZERS - EVE	RY THIRD JOINT OF CA								
PRODUCTION: 181	CENTRALIZERS - EVE	RY THIRD JOINT FROM S	SURFACE	TO TOP OF CURV	/E, THEN E	VERY JOINT U	INTIL TO			
WAS WELL	COMPLETED	AS SHOT HOLE	o Y	es ■ No	DI	ETAILS				
WAS WELL	COMPLETED	OPEN HOLE?	□ Yes	■ No	DET	AILS				
WERE TRAC	ERS USED	Yes No	TYP	E OF TRAC	CER(S)	JSED				

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WR-35 Rev. 8/23/13

SEP 25 2017

A DI	47- 049 _	02425	Farm name	JAMES AND DOROTHY ICE, MAJORIE A. KOPP	Well number	QUALITY RECLAMATION MRN 10H
ΛΓΙ	API 47- 040 -		raim name		_ ** €11 1141110€1	WV Dapartment of
				PERFORATION RECORD		Environmental Protection

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

Please insert additional pages as applicable.

API 47- 049	_ 02425		Farm	name_JAMES AND	DOROTHY	ICE, M	AJORIE A. K	OPP_Well i	number	QUALIT	Y RECLAMATI	ON MRN 10H	
PRODUCING	FORMATI	ON(S	-	<u>DEPTHS</u>		200	o 751				Office	RECEIVE e of Oil ar	D nd Gas
MARCELLUS		·		7854.4'	TVD	808	3.75*	MD 				SEP 25 20	17
			<u> </u>		<u> </u>	_					Wy Environ	Departme mental Pr	ent of
Please insert ac	lditional pa	ges as	applicable.										Olecti
GAS TEST	🗆 Build up	o ol	Drawdown	□ Open Flow		OIL	TEST 0	Flow E	Pump				
SHUT-IN PRE	SSURE	Surfa	ce 1723	psi Botto	om Hole_		psi	DURA?	rion c	F TES	т	hrs	
OPEN FLOW	Gas 1687	mcfp	Oil d <u>0</u>	NGL bpd	_ bpd	Wa 410		GAS N				ot	
LITHOLOGY/ FORMATION	TOP DEPTH IN NAME TY		BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTO DEPTH I	N FT					D QUANTITY A		
	0			0									
	SEE	- 1	ATTACHMENT	3	<u> </u>								
						_							
	 												
													
_				 	<u> </u>								
Please insert ac	 ditional pa	ges as	applicable.	<u> </u>	<u></u>								
Drilling Contra	•	_		NY									
Address PO BC	X 12359			City	SPRING	i 		State	TX	Zip	77391-2359		
Logging Comp	any DIVER	SIFIE	D										
Address 3602 T	X-158	<u> </u>		City	MIDLAN	D		State	<u>TX</u>	Zip	79706		
Cementing Con Address 9110 G	npany BAK ROGANS MI	ER HU	UGHES	City	THE WO	ODLAN	IDS	State	TX	Zip	77380		
Stimulating Co	mpany U	S WEL	L SERVICES	<u> </u>									
Address 770 S				City	HOUSTO	ON		State	TX	Zip	77056		
	•	_	- •				<i>-</i>	933 70 4	:_6420				
Completed by Signature	nnet	m	vitha	Title F	REGULATO	RY TE	I elephon	e 832-796	Date 9	/21/201	7		
Submittal of H	ydraulic Fra	acturin	ng Chemical	Disclosure Info	rmation	Att	ach copy	of FRACI	_				

Well Name:

QUALITY RECLAMATION MRN 10H

47049024250000

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	N. A.	N. A.	354.00	354.00	
Top of Salt Water	608.00	607.99	N. A.	N. A.	
Pittsburgh Coal	546.00	545.99	1866.40	1866.12	_
Big Injun (ss)	1866.40	1866.12	2093.20	2092.77	
Berea (siltstone)	2093.20	2092.77	2130.30	2129.86	
Rhinestreet (shale)	N. A.	N. A.	N. A.	N. A.	
Cashaqua (shale)	7017.54	6978.32	7359.31	7316.02	
Middlesex (shale)	7359.31	7316.02	7631.54	7573.27	
Burket (shale)	7631.54	7573.27	7680.17	7614.91	
Tully (is)	7680.17	7614.91	7745.56	7667.62	
Mahantango (shale)	7745.56	7667.62	8083.75	7854.40	
Marcellus (shale)	8083.75	7854.40	N. A.	N. A.	GAS

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QUALITY RECLAMATION MRN 10H PERF SUMMARY

SEP 25 2017

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STAGE NUM	Perf Date	•	Perf Bottom MD	# SHOTS PER STG
1	<u>`</u>		18,241	42
2	_		17,986	
3			17,731	42
4	<u>·</u>		17,476	
5			17,220	
6	<u></u>		16,965	
7			16,715	
8			16,455	
9	<u>·</u>		16,200	
10			15,965	
11	`	15,502	15,696	
12	5/15/2017	15,230	15,449	
13	5/16/2017	14,964	15,140	
14	5/16/2017	14,731	14,918	
15	5/16/2017	14,469	14,652	42
16	5/16/2017	14,215	14,397	42
17	5/17/2017	13,983	14,122	42
18	5/17/2017	13,711	13,893	42
19	5/17/2017	13,450	13,634	42
20	5/17/2017	13,213	13,407	42
21	. 5/17/2017	12,924	13,135	42
22	5/18/2017	12,737	12,885	42
23	5/18/2017	12,440	12,621	42
24	5/18/2017	12,173	12,402	42
25	5/18/2017	11,844	12,068	42
26	5/19/2017	11,602	11,785	42
27	5/19/2017	11,391	11,554	42
28	5/19/2017	11,159	11,352	42
29	5/19/2017	10,903	11,072	42
30	5/20/2017	10,630	10,855	42
31	5/20/2017	10,408	10,577	42
32	5/20/2017	10,172	10,348	42
33	5/20/2017	9,883	10,094	42
34	5/20/2017	9,603	9,813	42
35	5/21/2017	9,355	9,528	42
36	5/21/2017	9,105	9,311	42
37	5/21/2017	8,862	9,046	42
38	5/21/2017	8,591	8,788	42
39	5/21/2017	8,359	8,550	42

QUALITY RECLAMATION MRN 10H FRAC STAGE SUMMARY

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							Envir	Offmental Protoction
STAGE			Ave Pump	Ave Treatment	Max Breakdown		Amount of Proppant Amou	int of water. Amount of
NUM	St	im Date	Rate (BPM)	Pressure (PSI)	Pressure (PSI)	ISIP (PSI)	(lbs) bbls	nitrogen/other
	1	5/12/2017	90	8,765	9,041	6,276	498,840	9,672
	2	5/12/2017	93	8,717	8,923	6,083	499,680	8,017
	3	5/12/2017	96	8,789	9,019	6,137	500,140	7,984
	4	5/13/2017	96	8,764	8,955	6,359	496,600	7,874
	5	5/13/2017	98	8,489	8,773	6,105	498,140	7,905
	6	5/14/2017	97	8,789	9,005	6,369	497,200	7,916
	7	5/14/2017	94	8,620	8,991	6,218	493,220	7,706
	8	5/14/2017	96	8,664	8,862	6,009	499,660	7,623
	9	5/15/2017	99	8,706	8,994	6,781	497,880	7,590
	10	5/15/2017	94	8,685	8,890	6,745	495,540	7,642
	11	5/15/2017	98	8,765	8,926	6,083	497,200	7,568
	12	5/15/2017	97	8,772	9,019	6,083	499,780	7,533
-	13	5/16/2017	97	8,681	8,816	6,924	498,100	7,379
	14	5/16/2017	97	8,672	8,887	6,752	503,200	7,584
	15	5/16/2017	98	8,724	8,923	6,473	501,260	7,448
	16	5/16/2017	93	8,762	8,858	6,287	499,580	7,409
	17	5/17/2017	94	8,784	8,916	6,271	499,400	7,357
	18	5/17/2017	97	8,813	8,966	6,720	496,380	7,319
	19	5/17/2017	94	8,823	8,994	6,874	496,540	7,382
	20	5/17/2017	93	8,420	8,622	6,287	502,340	7,383
	21	5/17/2017	93	8,490	8,633	6,180	492,100	7,372
	22	5/18/2017	98	8,757	9,120	6,895	505,380	7,246
	23	5/18/2017	100	8,396	8,587	6,194	506,960	7,219
	24	5/18/2017	91	8,558	8,729	6,473	496,900	7,256
	25	5/18/2017	94	8,547	8,680	6,341	497,880	7,361
	26	5/19/2017	100	8,603	8,794	7,110	495,960	7,183
	27	5/19/2017	101	8,318		7,249	502,800	7,298
	28	5/19/2017	99	8,124	8,340	6,505	494,750	7,133
	29	5/19/2017	100	7,875	8,097		495,630	7,023
	30	5/20/2017	100	7,909	8,060		500,100	6,999
	31	5/20/2017	100	8,003	8,619	6,176	506,520	6,944
_	32	5/20/2017		7,734		6,727	506,760	7,130
	33	5/20/2017	101	7,866			497,140	6,927
	34	5/20/2017	101	7,898	8,250		496,000	6,881
	35	5/21/2017	99				502,480	6,871
	36	5/21/2017	100	7,997	8,394	6,752	502,140	6,889
	37	5/21/2017	101				496,940	6,909
	38	5/21/2017	100				493,840	6,786
	39	5/21/2017					500,705	6,758
			_					

Hydraulic Fracturing Fluid Product Component Information Disclosure

5/12/2017
5/21/2017
West Virginia
Marion
47-049-02425-00-00
Southwestern Energy
Quality Reclamation MRN 10H
39.57333800
-80.11610830
NAD83
NO
NO
7,940
11,959,390
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
Vater	Southwestern Energy	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	82.59485	
Sand	U.S. Well Services, LLC	Proppant					
			Crystalline Silica, quartz	14808-60-7	100.00000	16.11602	
ICL Acid (12.6%- 7.5%)	U.S. Well Services, LLC	Bulk Acid					
			Water	7732-18-5	87.40000	0.94672	
			Hydrogen Chloride	7647-01-0	17.50000	0.22011	ū
VFRA-2000	U.S. Well Services, LLC	Friction Reducer					T TVIT
			Water	7732-18-5	60.00000	0.05669	Ď,
			2-Propenoic acid, polymer with 2 propenamide	9003-06-9	30.00000	0.02835	me
			Hydrated light distillate (petroleum)	64742-47-8	30.00000	0.02324	nta
PTI-FLEX	U.S. Well Services, LLC	Friction Reducer					70
			Trade Secret	Proprietary	50.00000		5
		4	Distillates, petroleum, hydrotreated light	64742-47-8	50.00000	0.00569	ecli

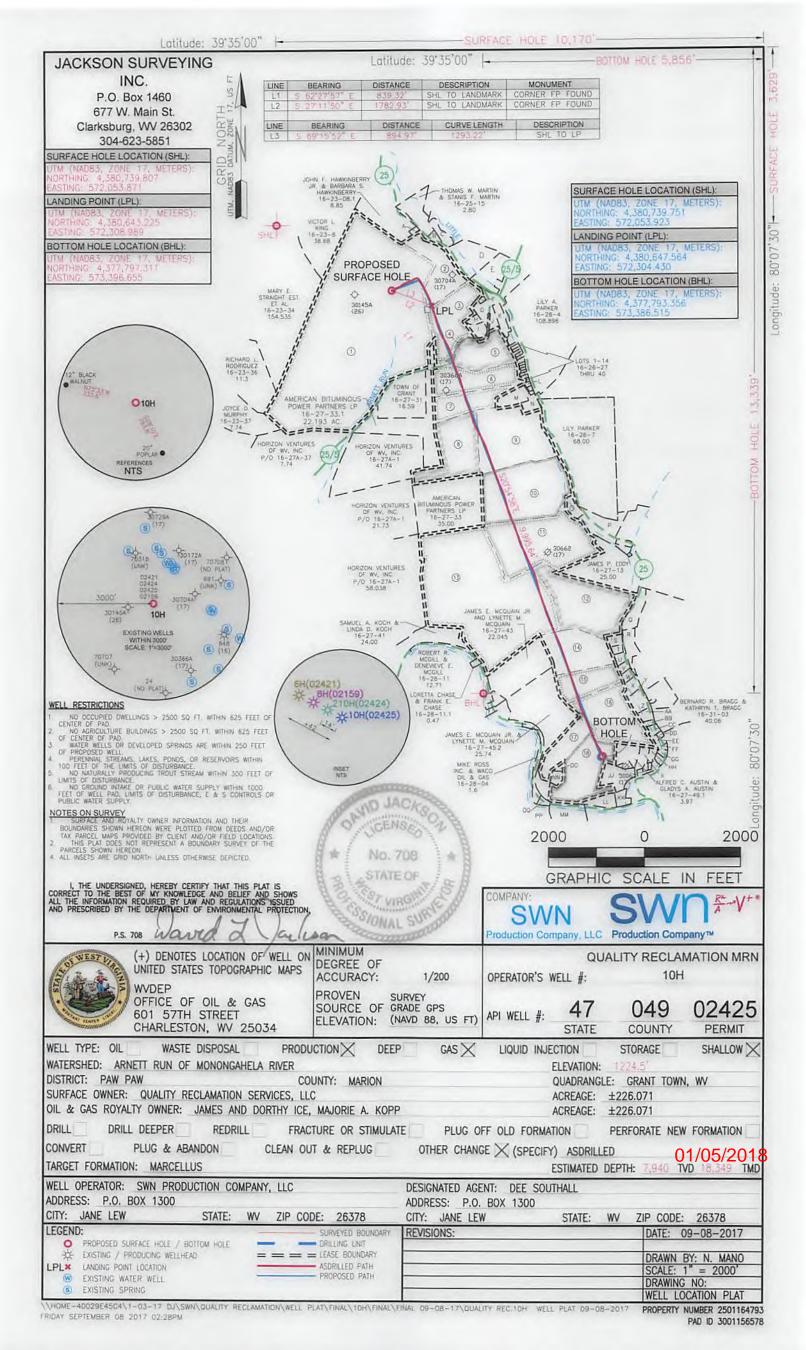
AI-303	U.S. Well Services, LLC	Acid Corrosion Inhibitors					
			Ethylene glycol	107-21-1	40.00000	0.00032	
			Formic acid	64-18-6	20.00000	0.00011	
			Cinnamaldehyde	104-55-2	20.00000	0.00011	
			Butyl cellosolve	111-76-2	20.00000	0.00010	
			Polyether	60828-78-6	10.00000	0.00006	
			Acetophenone,thiourea,formalde hyde polymer	68527-49-1	5.00000	0.00003	
AP One	U.S. Well Services, LLC	Gel Breakers					
			Ammonium Persulfate	7727-54-0	100.00000	0.00057	

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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^{*} 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%



JACKSON SURVEYING

INC. P.O. Box 1460 677 W. Main St. Clarksburg, WV 26302 304-623-5851

	WELL BORE TABLE FOR SURFACE / ROYALTY		ACDEC
TRACT		TAX PARCEL	
1	QUALITY RECLAMATION SERVICES, LLC (S)	16-23-03	226.0710
	JAMES W. ICE & DOROTHY ICE, MARJORIE A. KOPP (R)		
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
2	MICHAEL L. CLELLAND & LISA M. CLELLAND (S)	16-23-06	20.60
3	CHARLES T. BRAGG (S)	16-23-05	26.5855
4	W.V. D.O.T. D.O.H. (S)	(CR 25/5)	0.6617
5	CHARLES T. BRAGG (S)	16-27-27	17.60
6	CHARLES T. BRAGG (S)	16-27-28	20.00
7	CHARLES T. BRAGG (S)	16-27-29	15.79
8	AMERICAN BITUMINOUS POWER PARTNERS, LP (S)	16-27-30	35.00
9	LILLY ANN PARKER (S)	16-27-20	37.25
10	LILY ANN PARKER (S)	16-27-19	40.25
11	LILY ANN PARKER (S)	16-27-18	49.65
12	LILY ANN PARKER (S)	16-27-12	43.93
13	AMERICAN BITUMINOUS POWER PARTNERS, LP (S)	16-27-42	121.80
14	LILY ANN PARKER (S)	16-27-11	23.00
15	LILY ANN PARKER (S)	16-27-10	16.50
16	BRADLEY S. LINVILLE (S)	16-27-8.1	33.92
17	DAVID MAX FLORI (S)	16-27-46.1	12.88
18	PAUL R. DUSKEY (S)	16-27-49	19.98
			-

TRACT	ADJOINING OWNERS TABLE SURFACE OWNER	TAX PARCEL	ACRES
A	WARREN V. HARTLEY & DONNA S. HARTLEY	16-23-7	0.50
В	THOMAS W. MARTIN & STANIS F. MARTIN	16-25-17	0.83
C	THOMAS W. MARTIN & STANIS F. MARTIN	16-25-16	3.00
D	CHARLES G. MURRAY	16-25-19	9.89
E	GEORGE J. LEMLEY & ALICE M. LEMLEY	16-25-19.1	9.90
F	RODNEY R. MARTIN	16-27-26	1.00
G		16-23-4	2.00
	RUSSELL MCGLONE & PAULINE MCGLONE	16-23-5.2	40,000
H	JOSHUA A. CORWIN & COURTNEY A. CORWIN	16-23-5.1	2.00
1	DOUGLAS P. ICE & DONNA E. ICE	14.	1600/200
J	RODNEY R. MARTIN & NELLIE J. MARTIN	16-27-26.1	2.33
K	RODNEY R. MARTIN	16-27-26.2	2.50
L	LILY A. PARKER	16-27-22.1	0.41
M	CHARLES T. BRAGG	16-27-22	4.07
N	NOUMENON CORP.	16-27-21	2.50
0	KATHY GOWER	16-27-17.1	2.15
Р	KEVIN D. ROBBINS & SHIRLEY D. ROBBINS	16-27-17	9.47
Q	WILLIAM & GLANNA M. GASDA	16-32-11	2.74
R	LILY A. PARKER	16-27-12	43.93
S	MICHAEL J. DUKICH	16-27-9.3	1.09
T	MICHAEL L. DUKICH	16-27-9.4	1.02
U	ROBERT W. MORRIS & MARLENE M. MORRIS	16-27-9.1	1.02
V	JERFFREY L. AMMONS & ANNE C. AMMONS	16-27-9.5	1.19
W	JOSEPH P. AMMONS & CORA J. AMMONS	16-27-9.6	1.30
X	ALBERT L. REED OR RUTH A. REED	16-27-9	2.20
Y	RANDY E. FISHER & ROBIN D. FISHER	16-27-9.2	0.76
Z	RICHARD C. KEENER & SUSAN J. KEENER	16-27-8.2	1.29
AA	ALBERT C. MORRIS & TAMMY J. MORRIS	16-27-8.4	0.883
BB	VIRGINIA M. WEEKLEY & RUSSEL F. WEEKLEY	16-27-7.4	0.54
CC	MICHAEL D. WEEKLEY	16-27-7.2	0.90
DD	STEPHEN F. WEEKLEY	16-27-7.1	0.34
EE	RODERICK D. WEEKLEY	16-27-7	0.24
FF	HELEN WEEKLEY	16-27-7.3	0.15
GG	RANDY W. CUNNINGHAM & KAREN A. CUNNINGHAM	16-27-6.1	0.88
HH	GLEN L. CLUTTER & DEBRA L. CLUTTER	16-27-5	1.21
- (1	SHEILA G. VISHNICK	16-27-1	2.00
JJ	DENZIL J. & CALANTHA WILKINSON	16-27-50	6.00
KK	BAXTER VOLUNTEER FIRE	16-27-52	1.54
LL	BAXTER VOLUNTEER FIRE	16-27-51	6.00
MM	CAROLYNE E. BROWNLEE & DORA M. BROWNLEE	16-29-36.1	8.72
NN	PAUL R DUSKEY	16-27-47	1.02
00	DAVID M. FLORI	16-27-48	0.31
PP	SYLVIA M. PATECHUCK	16-28-05	18.06
QQ	PAUL E. LAWRENCE	16-28-03	0.48

01/05/2018 REVISIONS: COMPANY: SWN Production Company, LLC Production Company™ DATE: 09-08-2017 OPERATOR'S QUALITY RECLAMATION MRN DRAWN BY: N. MANO
SCALE: N/A
DRAWING NO:
WELL LOCATION PLAT 2 WELL #: 10H DISTRICT: PAW PAW STATE: WV COUNTY: MARION