

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

API 47-069-00273 County OHIO District LIBERTY  
Quad BETHANY, WV Pad Name DALLAS HALL-OHI-PAD1 Field/Pool Name PANHANDLE FIELD WET  
Farm name AGNES L. HALL Well Number DALLAS HALL OHI 5H  
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 4,442,628.265 Easting 532,979.505  
Landing Point of Curve Northing 4,442,853.214 Easting 533,084.569  
Bottom Hole Northing 4,445,179.379 Easting 532,336.772

Elevation (ft) 1274.5 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

RECEIVED  
Office of Oil and Gas  
JUL 16 2019  
WV Department of  
Environmental Protection

Date permit issued 6/7/2018 Date drilling commenced 12/25/2018 Date drilling ceased 01/04/2019  
Date completion activities began 03/07/2019 Date completion activities ceased 04/19/2019  
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 411' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 602' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 447' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed

*[Signature]* 9-9-19

Reviewed by:  
RB 9-9-19

API 47-069 - 00273 Farm name AGNES L. HALL Well number DALLAS HALL OHI 5H

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	518	NEW	J-55/54.5#	356.9 / 317.5	Y
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	1,921	NEW	J-55/36#		Y
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	14,680	NEW	HCP-110/20#		Y
Tubing		2.375	6,585	NEW	P-110/4.7#		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	301	15.60	1.20	361.2	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	524	15.60	1.19	623.56	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2,680	15.60	1.19	3,189.2	SURFACE	24
Tubing							

Drillers TD (ft) 14,680' Loggers TD (ft) 14,680'  
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 5,417

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 \_\_\_\_\_





**DALLAS HALL OHI 5H  
ATTACHMENT 1  
PERF REPORT**

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	2/18/2019	14,637	14,539	36
2	3/8/2019	14,504	14,397	42
3	3/9/2019	14,364	14,257	42
4	3/10/2019	14,224	14,117	42
5	3/10/2019	14,084	13,997	42
6	3/10/2019	13,944	13,823	42
7	3/11/2019	13,806	13,697	36
8	3/11/2019	13,664	13,557	42
9	3/14/2019	13,524	13,417	42
10	3/15/2019	13,384	13,277	42
11	3/17/2019	13,244	13,137	42
12	3/17/2019	13,104	12,997	42
13	2/18/2019	12,964	12,857	42
14	3/18/2019	12,824	12,717	42
15	3/18/2019	12,684	12,577	42
16	3/19/2019	12,544	12,437	42
17	3/19/2019	12,404	12,297	42
18	3/19/2019	12,264	12,157	42
19	3/20/2019	12,124	12,017	42
20	3/20/2019	11,984	11,877	42
21	3/20/2019	11,844	11,737	42
22	3/21/2019	11,704	11,597	42
23	3/21/2019	11,564	11,457	42
24	3/21/2019	11,424	11,317	42
25	3/21/2019	11,284	11,142	42
26	3/22/2019	11,119	11,037	42
27	3/22/2019	11,004	10,897	42
28	3/22/2019	10,864	10,757	42
29	3/23/2019	10,724	10,617	42
30	3/23/2019	10,584	10,477	42
31	3/24/2019	10,444	10,337	42
32	3/24/2019	10,304	10,197	42
33	3/24/2019	10,164	10,057	42
34	3/25/2019	10,024	9,917	42
35	2/18/2019	9,884	9,777	42
36	3/26/2019	9,744	9,637	42
37	3/26/2019	9,604	9,497	42
38	3/27/2019	9,464	9,357	42
39	3/27/2019	9,324	9,217	42
40	2/18/2019	9,184	9,077	42
41	3/29/2019	9,044	8,937	42
42	3/29/2019	8,904	8,797	42
43	3/29/2019	8,764	8,657	42
44	3/30/2019	8,624	8,517	42
45	3/30/2019	8,484	8,377	42
46	3/30/2019	8,346	8,237	42
47	3/31/2019	8,204	8,097	42
48	3/31/2019	8,064	7,957	42
49	3/31/2019	7,924	7,817	42
50	4/1/2019	7,784	7,677	42
51	4/1/2019	7,644	7,537	42
52	4/1/2019	7,504	7,397	42
53	4/1/2019	7,364	7,257	42
54	2/18/2019	7,224	7,117	42
55	4/2/2019	7,084	6,977	42
56	4/3/2019	6,944	6,837	42
57	4/3/2019	6,804	6,697	42
58	4/3/2019	6,664	6,557	42



**DALLAS HALL OHI 5H  
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	3/7/2019	75.5	7,631	8,879	3,904	279,140	8,354	0
2	3/8/2019	93.3	8,144	5,129	4,613	281,710	7,773	0
3	3/10/2019	86.7	8,175	5,906	4,598	281,766	7,467	0
4	3/10/2019	89.7	8,089	5,270	4,816	280,310	7,566	0
5	3/10/2019	92.1	9,180	5,401	4,733	279,950	7,555	0
6	3/10/2019	88.7	7,931	6,954	4,838	281,211	5,015	0
7	3/11/2019	88.2	8,147	5,885	4,872	282,187	4,920	0
8	3/12/2019	92.6	8,166	5,912	4,641	280,490	5,063	0
9	3/15/2019	94.1	8,086	5,705	4,835	279,260	4,788	0
10	3/17/2019	93.5	8,196	5,645	4,516	279,550	4,880	0
11	3/17/2019	91.6	8,064	5,711	4,644	280,840	5,018	0
12	3/18/2019	90.4	8,044	5,809	4,770	280,300	4,894	0
13	3/18/2019	89.4	8,150	5,543	4,655	280,920	4,862	0
14	3/18/2019	90.6	8,147	5,662	4,716	279,030	4,896	0
15	3/18/2019	88.5	7,986	5,762	4,673	281,850	4,774	0
16	3/19/2019	88.8	8,162	5,738	4,977	280,200	4,766	0
17	3/19/2019	88.2	7,963	5,764	4,541	281,270	4,774	0
18	3/20/2019	92.6	7,943	5,445	5,357	280,220	4,834	0
19	3/20/2019	97.4	8,108	5,606	4,934	280,410	4,727	0
20	3/20/2019	98.7	8,105	5,689	4,863	280,410	4,724	0
21	3/20/2019	94.2	7,913	5,863	4,689	280,830	4,591	0
22	3/21/2019	93.4	8,067	5,667	4,760	278,590	4,646	0
23	3/21/2019	99	8,080	5,756	4,702	280,230	4,773	0
24	3/21/2019	97.3	8,179	6,161	4,953	280,760	4,668	0
25	3/21/2019	94.4	7,901	5,745	4,692	278,937	4,444	0
26	3/22/2019	97.7	7,899	5,839	4,720	280,656	4,428	0
27	3/22/2019	94.8	8,099	5,591	4,799	280,030	4,808	0
28	3/22/2019	93.4	7,987	5,640	4,526	280,697	4,355	0
29	3/23/2019	96.2	7,953	5,389	4,807	280,740	4,521	0
30	3/23/2019	98.9	8,023	5,571	4,659	281,730	4,422	0
31	3/24/2019	99.3	7,935	5,632	4,394	280,830	4,870	0
32	3/24/2019	98.2	8,031	5,487	4,159	281,720	4,600	0
33	3/25/2019	99.9	7,791	5,654	4,696	280,980	5,289	0
34	3/25/2019	99.7	7,965	5,058	4,531	280,280	4,514	0
35	3/25/2019	98.4	7,793	5,682	4,575	279,412	4,418	0
36	3/26/2019	99.5	7,777	5,674	4,837	280,230	4,647	0
37	3/27/2019	98.5	7,948	5,478	4,596	280,120	4,327	0
38	3/27/2019	99.8	7,759	5,705	4,574	280,630	4,622	0
39	3/27/2019	97.8	7,539	6,027	4,764	284,290	4,364	0
40	3/28/2019	100	7,390	5,914	4,548	280,160	4,325	0
41	3/29/2019	98.7	7,501	5,757	4,619	280,930	4,323	0
42	3/29/2019	97.4	7,702	5,709	4,437	281,610	4,598	0
43	3/29/2019	99.5	7,275	6,226	4,866	281,620	4,475	0
44	3/30/2019	99.3	7,629	5,663	4,557	280,040	4,388	0
45	3/30/2019	97.8	7,694	5,339	4,400	281,044	4,637	0
46	3/30/2019	98.6	7,749	5,819	4,707	280,170	4,371	0
47	3/31/2019	99	7,467	5,495	4,720	281,311	5,361	0
48	3/31/2019	99.8	7,737	5,407	4,580	280,189	4,461	0
49	3/31/2019	98.6	7,606	5,838	4,668	280,650	4,448	0
50	4/1/2019	98.5	6,987	5,638	4,701	279,670	4,452	0
51	4/1/2019	99.1	7,534	5,759	4,873	280,456	4,436	0
52	4/1/2019	100	7,019	5,535	4,505	281,720	4,449	0
53	4/2/2019	99.5	7,309	5,656	4,664	281,130	4,326	0
54	4/2/2019	99.9	7,285	5,888	4,753	280,109	4,691	0
55	4/2/2019	100.1	6,770	5,411	4,759	279,960	4,436	0
56	4/3/2019	99.6	7,416	5,179	5,102	280,160	4,375	0
57	4/3/2019	98.9	6,940	5,457	4,489	280,100	4,588	0
58	4/4/2019	98.6	6,971	5,351	4,612	279,180	5,194	0



Well Name: Dallas Hall OHI 5H

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	411.00	411.00	
Top of Salt Water	602.00	602.00	NA	NA	
Pittsburgh Coal	447.00	447.00	453.00	453.00	
Pottsville (ss)	589.00	589.00	653.00	653.00	
Raven Cliff (ss)	925.00	925.00	1114.00	1114.00	
Big Injun (ss)	1644.00	1644.00	1871.00	1871.00	
Rhinstreet (shale)	5717.00	5662.00	5895.00	5816.00	
Cashaqua (shale)	5895.00	5816.00	5967.00	5873.00	
Middlesex (shale)	5967.00	5873.00	6065.00	5944.00	
Burket (shale)	6065.00	5944.00	6089.00	5960.00	
Tully (ls)	6089.00	5960.00	6180.00	6013.00	
Mahantango (shale)	6180.00	6013.00	6386.00	6103.00	
Marcellus (shale)	6386.00	6103.00	NA	NA	GAS

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/7/2019
Job End Date:	4/4/2019
State:	West Virginia
County:	Ohio
API Number:	47-069-02730-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	Dallas Hall OHI 5H
Latitude:	40.13333738
Longitude:	-80.61288650
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,100
Total Base Water Volume (gal):	11,907,899
Total Base Non Water Volume:	0



## Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Fresh Water	Operator	Base Fluid					
			Water	7732-18-5	100.00000	85.60601	Density = 8.330
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.29735	



CI-01	FTSI	Additive						
					Listed Below			
SAND- PREMIUM WHITE-40/70, BULK	Halliburton	Proppant						
					Listed Below			
Nalco Scale	Nalco	Scale Inhibitor						
					Listed Below			
HYDROCHLORI C ACID	Halliburton	Solvent						
					Listed Below			
LD-2850	Multi-Chem	Friction Reducer						
					Listed Below			
SAND-COMMON WHITE-100 MESH, SSA-2, BULK (100003676)	Halliburton	Proppant						
					Listed Below			
BE-9W	Halliburton	Biocide						
					Listed Below			
EXCELERATE LX-1	Halliburton	Friction Reducer						
					Listed Below			



			Fatty Acids	Trade Secret	10.00000	0.00020
			Phosphoric Acid Salt	Proprietary	5.00000	0.00001

\* 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

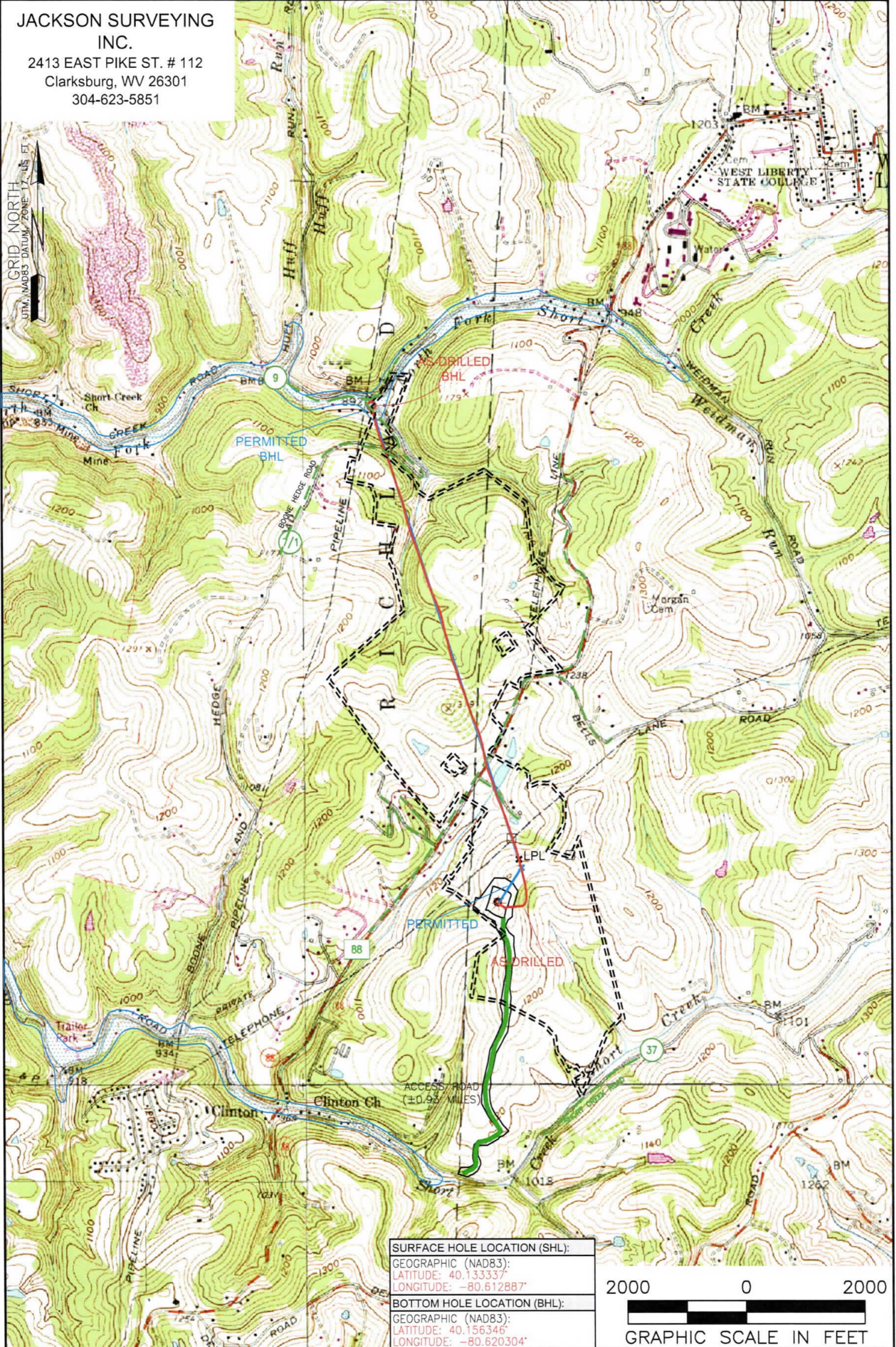
Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.  
 Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)



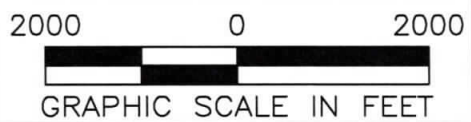
**JACKSON SURVEYING  
INC.**

2413 EAST PIKE ST. # 112  
Clarksburg, WV 26301  
304-623-5851

GRID NORTH  
UTM, NAD83 DATUM, ZONE 17, U.S. FT.



<b>SURFACE HOLE LOCATION (SHL):</b>
GEOGRAPHIC (NAD83):
LATITUDE: 40.133337°
LONGITUDE: -80.612887°
<b>BOTTOM HOLE LOCATION (BHL):</b>
GEOGRAPHIC (NAD83):
LATITUDE: 40.156346°
LONGITUDE: -80.620304°



**NOTES ON SURVEY**

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

**LEGEND:**

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- ⊙ EXISTING / PRODUCING WELLHEAD
- LPLx LANDING POINT LOCATION
- FLOOD PLAIN
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH
- ASDRILLED PATH

<b>WELL OPERATOR:</b> SWN PRODUCTION COMPANY, LLC	<b>WELL (FARM) NAME:</b> DALLAS HALL OHI	<b>WELL #</b> 5H	<b>SERIAL #</b>
<b>ADDRESS:</b> 1300 FORT PIERPONT RD, SUITE 200 MORGANTOWN, WV 26508	<b>COUNTY - CODE</b> OHIO - 069	<b>DISTRICT;</b> LIBERTY	
<b>SURFACE OWNER:</b> AGNES L. HALL	<b>USGS 7 1/2 QUADRANGLE MAP NAME</b> BETHANY, WV	<b>API #</b> 047-069-00273	



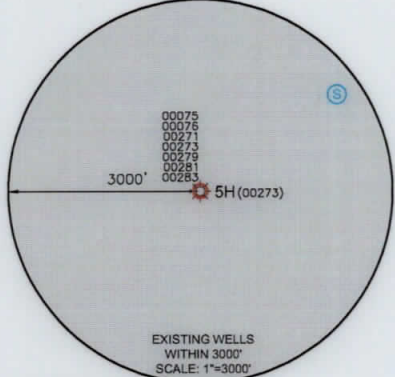
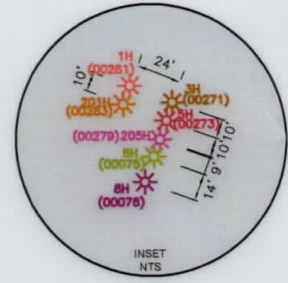
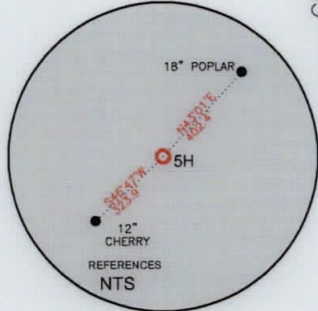
**JACKSON SURVEYING INC.**  
 2413 EAST PIKE ST. # 112  
 Clarksburg, WV 26301  
 304-623-5851

Latitude: 40°10'00" SURFACE HOLE 8,263'  
 Latitude: 40°10'00" BOTTOM HOLE 10,332'

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 11°19'10" E	1109.37'	SHL TO LANDMARK	FD. 5/8" REBAR
L2	N 56°18'59" E	1455.85'	SHL TO LANDMARK	36" BLACK CHERRY
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 25°02'08" E	814.55'	1284.32'	SHL TO LP

<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,442,628.350 EASTING: 532,979.570
<b>LANDING POINT (LPL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,442,809.950 EASTING: 533,097.770
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,445,179.730 EASTING: 532,333.840

<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,442,628.265 EASTING: 532,979.505
<b>LANDING POINT (LPL):</b>
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<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,445,179.379 EASTING: 532,336.772



**WELL RESTRICTIONS**

- NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
- NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
- NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

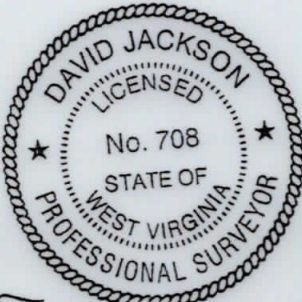
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- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 708

*David L Jackson*



COMPANY: **SWN** Production Company, LLC

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
**WVDEP**  
 OFFICE OF OIL & GAS  
 601 57TH STREET  
 CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200  
 PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

DALLAS HALL OHI  
 OPERATOR'S WELL #: 5H  
 API WELL #: 47 069 00273  
 STATE COUNTY PERMIT

WELL TYPE: OIL  WASTE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHALLOW   
 WATERSHED: SHORT RUN-OHIO RIVER (HUC-10) ELEVATION: 1274.5'  
 DISTRICT: LIBERTY COUNTY: OHIO QUADRANGLE: BETHANY, WV  
 SURFACE OWNER: AGNES L. HALL ACREAGE: ±162.58  
 OIL & GAS ROYALTY OWNER: AGNES L. HALL ACREAGE: ±162.58  
 DRILL  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION   
 CONVERT  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY) ASDRILLED  
 TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,140 TVD 14,680 TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY  
 ADDRESS: 1300 FORT PIERPONT RD. SUITE 200 ADDRESS: 1300 FORT PIERPONT RD. SUITE 200  
 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508



<b>LEGEND:</b>	— SURVEYED BOUNDARY	REVISIONS:	DATE: 07-09-2019
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— DRILLING UNIT		
⊙ EXISTING / PRODUCING WELLHEAD	== LEASE BOUNDARY		
LPL* LANDING POINT LOCATION	— ASDRILLED PATH		
⊙ EXISTING WATER WELL	— PROPOSED PATH		
⊙ EXISTING SPRING			



**JACKSON SURVEYING  
INC.**

2413 EAST PIKE ST. # 112  
Clarksburg, WV 26301  
304-623-5851



REVISIONS:	COMPANY:		 		
	OPERATOR'S	DALLAS HALL OHI		API NUMBER:	DATE: 07-09-2019
	WELL #:	5H		47-069-00273	DRAWN BY: N. MANO
	DISTRICT:	COUNTY:		STATE:	SCALE: N/A
	LIBERTY	OHIO	WV	DRAWING NO:	
				WELL LOCATION PLAT 2	



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WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	AGNUS J. HALL (S/R)	03-L7-19
TRACT	SURFACE OWNER	TAX PARCEL
2	DAVID M. WEAVER & BETH R. WEAVER (S)	03-L4-15
3	LILLIAN W. BROWN TRUST (S)	03-L4-1.1
4	PAUL M. MCKAY & DEBORAH A. MCKAY (S)	03-L4-01
5	PAUL M. MCKAY & DEBORAH A. MCKAY (S)	04-R9-51
6	JOHN C. RATCLIFFE (S)	04-R9-22.20
7	JOHN C. RATCLIFFE (S)	04-R9-22.21
8	CARLA DIETRICH (S)	04-R9-21
9	CARLA DIETRICH (S)	04-R9-21.1
10	ADAM J. SHUBA (S)	04-R6-35

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	MARY HELEN CLISER, TRUSTEE	03-L7-02
B	WHITAKER REVOCABLE FAMILY TRUST	03-L7-27
C	AGNES L. HALL	03-L7-01
D	AGNES L. HALL	03-L7-20
E	AGNUS J. HALL	03-L7-21.1
F	JOHN R. PYLE, SR. & T.A. PYLE	04-R12B-1.1
G	STEVE KELLAS	04-R12B-1.5
H	MATHEW H. GOSSETT	04-R12B-01
I	GEORGE STROMATOS	03-L4-24
J	GEORGE STROMATOS	03-L4-24.1
K	GEORGE STROMATOS	03-L4-24.2
L	DAVID G. RUTHERS & LINDA F. RUTHERS	03-L4-22
M	YE M. HLA & EI E. MYINT	03-L4-20
N	ERIC N. BLEND	03-R12B-02
O	JAMES W. FRIO & KAREN L. FRIO	04-R9-47
P	S.A. WARREN & W.S. WARREN	04-R9-46
Q	DAVID W. SONNEFELD & TERRI A. SONNEFELD	04-R9-45
R	DAVID W. SONNEFELD & TERRI A. SONNEFELD	04-R9-44
S	TYLER P. BECK	04-R9-43
T	MARK E. PISSOS & J.L. PISSOS	04-R9-42
U	GARY S. LATOS & C.M. LATOS	04-R9-41
V	CLARK PAJAK & SHARON L. PAJAK	04-R9-32.1
W	CLARK PAJAK & SHARON L. PAJAK	04-R9-28
X	RCK 2 GROUP, LLC	04-R9-27
Y	LA DONNA MARTIN EVANS	04-R9-3.5
Z	WESBANCO TRUST & INVESTMENT SERVICE	04-R9-16.1
AA	CLAIRE M. CAENEY	04-R9-03
BB	MARK J. SWIGER & DAWN S. SWIGER	04-R9-22.15
CC	GEORGE E. WOOD & CAROL A. WOOD	04-R9-22.16
DD	JOHN C. RATCLIFFE & KATHY J. RATCLIFFE	04-R9-22.17
EE	JEFFREY C. TAYLOR & GINGER K. TAYLOR	04-R9-22.18
FF	JEFFREY C. TAYLOR & G.K. TAYLOR	04-R9-20
GG	LARRY BOYNES & TERRY BOYNES	04-R9-22.9
HH	ROBERT L. JEWELL II & JENNIFER J. JEWELL	04-R6-40
II	RALPH D. ROBINSON, JR. & GRACE A. ROBINSON	04-R6-27

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
JJ	RANDALL L. CRABTREE & CYNTHIA KOVALSKI	04-R6-27.4
KK	CHARLES J. ROBINSON (LE), RANDALL CRABTREE	04-R6-27.2
LL	CALVARY BAPTIST CHURCH TRUSTEES	04-R6-35.1
MM	ELIZABETH L. HONECKER & ELIZABETH H. HESTICK	04-L1-42
NN	FEDERAL HOME LOAN MORTGAGE CORPORATION	04-R9-24
OO	FEDERAL HOME LOAN MORTGAGE CORPORATION	04-R9-24.1
PP	ELIZABETH R. HONECKER C/O JANET L. HONECKER (L/E)	04-R9-124
QQ	PAUL M. MCKAY & DEBORAH A. MCKAY, JANET L. HONECKER	04-R9-123
RR	RACHEL ANN SINCAVICH	03-L4-02
SS	PAUL M. MCKAY	03-L4-1.6
TT	DOUGLAS E. FARMER, JR. & CHRISTINA J. FARMER	03-L4-2.1
UU	REGINA L. FARMER & CLARENCE S. FARMER, JR.	03-L4-2.7
VV	DONALD FRAZIER & LINDA FRAZIER	03-L4-2.2
WW	THOMAS E. WILEY & HOLLY J. WILEY	03-L4-2.4
XX	DORA M. MCCARDLE	03-L4-105.13
YY	ARLIE R. MCCARDLE, JR. & BOND B. MCCARDLE	03-L4-105.17
ZZ	MICHAEL D. WINESDORFFER & G.L. WINESDORFFER	03-L4-55
AAA	WILLIAM N. HOGAN, JR. & S.C. HOGAN	03-L4-28
BBB	RICHARD T. CROW & P.K. CROW	03-L4-27
CCC	RICHARD T. CROW & P.K. CROW	03-L4-26
DDD	FRANK J. HARRAR & ISABEL W. HARRAR (LE), MARY ANN HARRAR, ET AL	03-L4-04
EEE	THOMAS M. HARDMAN & KELSEY R. GOLD	03-L4-1.4
FFF	JOHN A. POWELL & MICHELLE L. POWELL	03-L4-1.5
GGG	REBECCA L. BLAKE	03-L4-1.2
HHH	REBECCA L. BLAKE	03-L4-1.7
III	PAUL M. MCKAY & DEBORAH A. MCKAY	03-L4-10.1
JJJ	PAUL M. MCKAY & DEBORAH A. MCKAY	03-L4-10
KKK	JAMES F. ROSE & ANN C. ROSE	03-L4-12
LLL	JAMES F. ROSE & ANN C. ROSE	03-L4-14
MMM	ROBERT E. BROWN	03-L4-1.3
NNN	DAVID M. WEAVER & BETH R. WEAVER	03-L4-13
OOO	CATHERINE EVANS & DAVID EVANS	03-L4-13.1

REVISIONS:	COMPANY:	 		
	OPERATOR'S	DALLAS HALL OHI	API NUMBER:	DATE: 07-09-2019
	WELL #:	5H	47-069-00273	DRAWN BY: N. MANO
	DISTRICT:	LIBERTY	COUNTY:	SCALE: N/A
			STATE:	DRAWING NO:
			WV	WELL LOCATION PLAT 3