

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

RECEIVED
Office of Oil and Gas

OCT 07 2019
WV Department of
Environmental Protection

API 47-069-00283 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 201
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 4,442,630.905 Easting 532,972.651
Landing Point of Curve Northing 4,442,629.826 Easting 532,254.148
Bottom Hole Northing 4,444,092.204 Easting 531,839.518

Elevation (ft) 1274.2 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

Date permit issued 08/03/2018 Date drilling commenced 11/07/2018 Date drilling ceased 11/17/2018
Date completion activities began 03/07/2019 Date completion activities ceased 04/26/2019
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

C. [Signature] 12-17-19

Reviewed by:
GB 12-17-19

API 47-069 - 00283 Farm name AGNES L. HALL Well number DALLAS HALL OHI 201

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	517	NEW	J-55/54.5#	434.9 / 395.2	Y
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	1,926	NEW	J-55/36#		Y
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	11,904	NEW	HCP-110/20#		Y
Tubing		2.375	6,821	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 ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	GROUT TO SURFACE				SURFACE	24
Surface	CLASS A	475	15.60	1.20	570	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	732	15.60	1.19	871.08	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2,110	15.60	1.19	2510.9	SURFACE	24
Tubing							

Drillers TD (ft) 11,904' Loggers TD (ft) 11,904'

Deepest formation penetrated MARCELLUS Plug back to (ft) N/A

Plug back procedure N/A

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Office of Oil and Gas

Kick off depth (ft) 6,892'

JUL 16 2019

Check all wireline logs run caliper density deviated/directional induction temperature neutron resistivity gamma ray temperature
WV Department of Environmental Protection

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 _____

API 47-069 - 00283

Farm name AGNES L. HALL

Well number DALLAS HALL OHI 201

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE	ATTACHMENT	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	ATTACHMENT	2					

Please insert additional pages as applicable.

API 47-069-00283 Farm name AGNES L. HALL Well number DALLAS HALL OHI 201

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
MARCELLUS	6,099	TVD 11,904 MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1210 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 4650 mcfpd Oil 828 bpd NGL _____ bpd Water 520 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	

	0		0		
	SEE	ATTACHMENT	3		

Please insert additional pages as applicable.

Drilling Contractor SWN DRILLING COMPANY
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 77380

Cementing Company SCHLUMBERGER WELL SERVICES
Address 110 SCHLUMBERGER DRIVE City SUGAR LAND State TX Zip 77478

Stimulating Company HALLIBURTON ENERGY SERVICE
Address 14851 MILNER ROAD, GATE 5A City HOUSTON State TX Zip 77032

Please insert additional pages as applicable.

Completed by Elizabeth Gee Telephone 832-796-7632
Signature  Title Staff Regulatory Analyst Date 07/12/2019

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

**DALLAS HALL OHI 201H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	2/27/2019	11,862	11,767	36
2	3/7/2019	11,732	11,555	36
3	3/7/2019	11,522	11,345	36
4	3/8/2019	11,312	11,135	36
5	3/8/2019	11,102	10,925	36
6	3/9/2019	10,892	10,715	36
7	3/9/2019	10,682	10,505	36
8	3/9/2019	10,472	10,295	36
9	3/11/2019	10,262	10,085	36
10	3/12/2019	10,052	9,875	36
11	3/13/2019	9,842	9,665	36
12	3/13/2019	9,632	9,455	36
13	3/13/2019	9,422	9,245	36
14	3/14/2019	9,212	9,035	36
15	3/14/2019	9,002	8,825	36
16	3/14/2019	8,792	8,615	36
17	3/15/2019	8,582	8,405	36
18	3/15/2019	8,372	8,195	36
19	3/16/2019	8,162	7,985	36
20	3/17/2019	7,952	7,775	36
21	3/18/2019	7,742	7,565	36
22	3/19/2019	7,532	7,355	36
23	3/21/2019	7,322	7,145	36
24	3/21/2019	7,112	6,935	36
25	3/22/2019	6,902	6,725	36

**DALLAS HALL OHI 201H
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	89.5	7,708	7,669	3,875	279,136	7,244	0
2	3/7/2019	90.7	7,580	5,677	4,583	404,857	10,985	0
3	3/8/2019	98.7	7,843	5,244	4,385	410,844	10,688	0
4	3/8/2019	100.1	7,899	5,808	4,434	420,660	10,704	0
5	3/8/2019	99.9	7,899	5,416	4,413	420,877	10,520	0
6	3/9/2019	99.5	8,001	5,315	4,531	420,070	7,142	0
7	3/9/2019	100.1	7,954	5,116	4,387	420,190	7,101	0
8	3/11/2019	97.5	7,741	7,741	4,772	420,553	7,325	0
9	3/12/2019	99.9	8,017	5,417	4,321	420,200	7,061	0
10	3/12/2019	100.1	7,857	5,054	4,396	420,520	7,020	0
11	3/13/2019	99.6	7,870	5,171	4,803	421,000	7,132	0
12	3/13/2019	97.9	7,674	5,160	4,298	420,460	6,956	0
13	3/13/2019	96.9	7,602	5,021	4,784	421,297	7,127	0
14	3/13/2019	100	7,221	4,983	4,409	419,780	6,993	0
15	3/14/2019	99.6	7,999	5,221	4,369	420,320	7,053	0
16	3/14/2019	100.5	7,447	5,198	4,355	420,037	7,019	0
17	3/15/2019	100.3	7,464	5,288	4,347	420,010	6,824	0
18	3/16/2019	99.9	7,810	5,190	4,356	420,150	6,995	0
19	3/17/2019	99.9	7,674	5,267	4,406	423,650	6,901	0
20	3/18/2019	100.2	7,584	5,336	4,404	420,310	6,549	0
21	3/19/2019	99.4	7,652	5,446	4,490	420,090	6,853	0
22	3/21/2019	100.6	7,375	5,646	4,397	422,140	6,799	0
23	3/21/2019	99.6	7,249	5,489	4,519	419,970	6,681	0
24	3/21/2019	99.7	7,131	5,694	5,077	419,500	6,585	0
25	3/22/2019	99.4	6,805	6,020	4,242	420,620	6,671	0



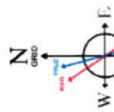
Well Name: Dallas Hall OHI 201H

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	5985.00	5624.00	
Rhinestreet (shale)	5985.00	5624.00	6181.00	5797.00	
Cashaqua (shale)	6181.00	5797.00	6241.00	5846.00	
Middlesex (shale)	6241.00	5846.00	6335.00	5915.00	
Burket (shale)	6335.00	5915.00	6358.00	5931.00	
Tully (ls)	6358.00	5931.00	6441.00	5981.00	
Mahantango (shale)	6441.00	5981.00	6644.00	6071.00	
Marcellus (shale)	6644.00	6071.00	NA	NA	GAS

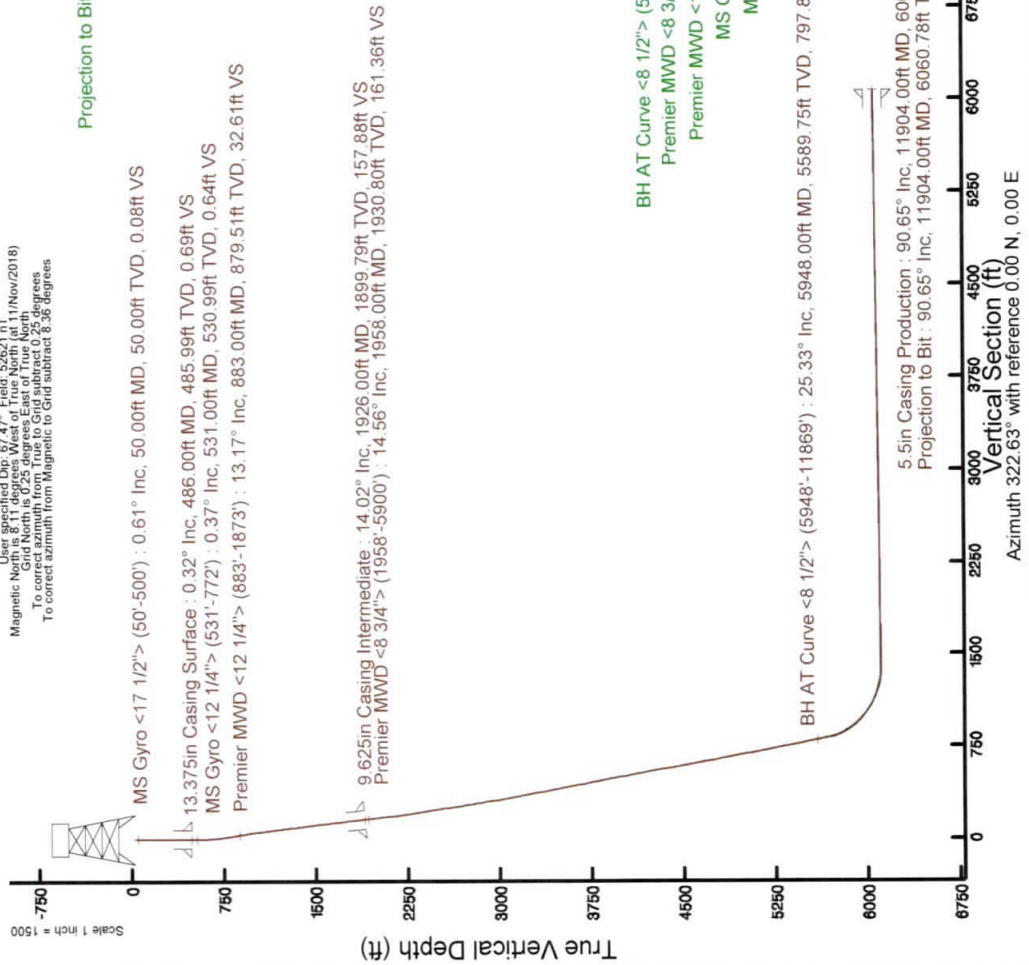
SOUTHWESTERN ENERGY

Location: Ohio County, WV
 Slot: Slot 201H
 Well: Dallas Hall OHI 201H
 Field: Ohio
 Facility: Dallas Hall OHI Pad Wellbore: Dallas Hall OHI 201H PWB

Plot reference wellpath is Dallas Hall OHI 201H PWP Rev-B.0	Grid System: NAD83 / UTM Zone 17 North, US feet
True vertical depths are referenced to SDC 41 (KB)	North Reference: Grid north
Measured depths are referenced to SDC 41 (KB)	Scale: True distance
SDC 41 (KB) to Mean Sea Level: 1300 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot: Slot 201H): -1274 feet	Created by: atenjen on 2018-11-21
Coordinates are in feet referenced to Slot	Database: WA_MPL_EASTERNUS_Derf



User specified Dip: 67.47°, Field: 52921 at
 Magnetic North is 8°11 degrees West of True North (at 11/Nov/2018)
 Grid North is 0°25 degrees East of True North
 To correct azimuth from True to Grid subtract 0°25 degrees
 To correct azimuth from Magnetic to Grid subtract 8°36 degrees



Location Information

Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Dallas Hall OHI Pad	1748601.815	14575539.433	40°08'00.176"N	80°36'46.588"W
Local N (ft)	Local E (ft)	Grid North (US ft)	Latitude	Longitude
-9.07	-3.45	14575530.370	40°08'00.087"N	80°36'46.633"W
Slot 201H				
Comment: Slot 19				
SDC 41 (KB) to Ground level (At Slot: Slot 201H)			26ft	
Mean Sea Level to Ground level (At Slot: Slot 201H)			-1274ft	
SDC 41 (KB) to Mean Sea Level			1300ft	
Comments				
API: 47-069-00283-0000				
BH Job #: 109511608				
Rig: SDC 41				
Duration: 11/12/2018 - 11/15/2018				



Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/4/2019
Job End Date:	3/22/2019
State:	West Virginia
County:	Ohio
API Number:	47-069-02830-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	Dallas Hall OHI 201H
Latitude:	40.13336006
Longitude:	-80.61296755
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,086
Total Base Water Volume (gal):	7,896,278
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	84.52805	Density = 8.330
Fresh Water	Operator	Base Fluid					
			Water	7732-18-5	100.00000	1.31767	Density = 9.000

Ingredients	Listed Above	Listed Above	Listed Above						
				Water		7732-18-5	100.00000	0.63713	
HYDROCHLORIC ACID	Halliburton	Solvent				Listed Below			
BE-9W	Halliburton	Biocide				Listed Below			
CI-01	FTSI	Corrosion Inhibitor				Listed Below			
SCAL 16486A	Nalco Champion	Scale Inhibitor				Listed Below			
EXCELERATE LX-1	Halliburton	Friction Reducer				Listed Below			
IC-001	FTSI	Additive				Listed Below			
SAND-COMMON WHITE-100 MESH, SSA-2, BULK (100003676)	Halliburton	Proppant				Listed Below			

SAND- PREMIUM WHITE-40/70, BULK	Halliburton	Proppant							
					Listed Below				
Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.									
			Crystalline silica, quartz		14808-60-7	100.00000	13.48903		
			Hydrochloric acid		7647-01-0	15.00000	0.08134		
			Hydrotreated light petroleum distillate		64742-47-8	30.00000	0.02650		
			Polyacrylate		Proprietary	30.00000	0.02650		
			Propylene glycol		57-55-6	60.00000	0.02512		
			Fatty acid ester		Proprietary	5.00000	0.00883		
			Sodium chloride		7647-14-5	5.00000	0.00442		
			Ammonium chloride		12125-02-9	5.00000	0.00442		
			Ethoxylated fatty acid		Proprietary	5.00000	0.00442		
			Tributyl tetradecyl phosphonium chloride		81741-28-8	10.00000	0.00419		
			Acetic Acid		64-19-7	60.00000	0.00401		
			Citric Acid		77-92-9	40.00000	0.00268		
			Ethylene Glycol		107-21-1	30.00000	0.00154		
			Amine Triphosphate		Proprietary	30.00000	0.00154		
			Methanol		67-56-1	70.00000	0.00132		
			Fatty Acids		Trade Secret	10.00000	0.00019		

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

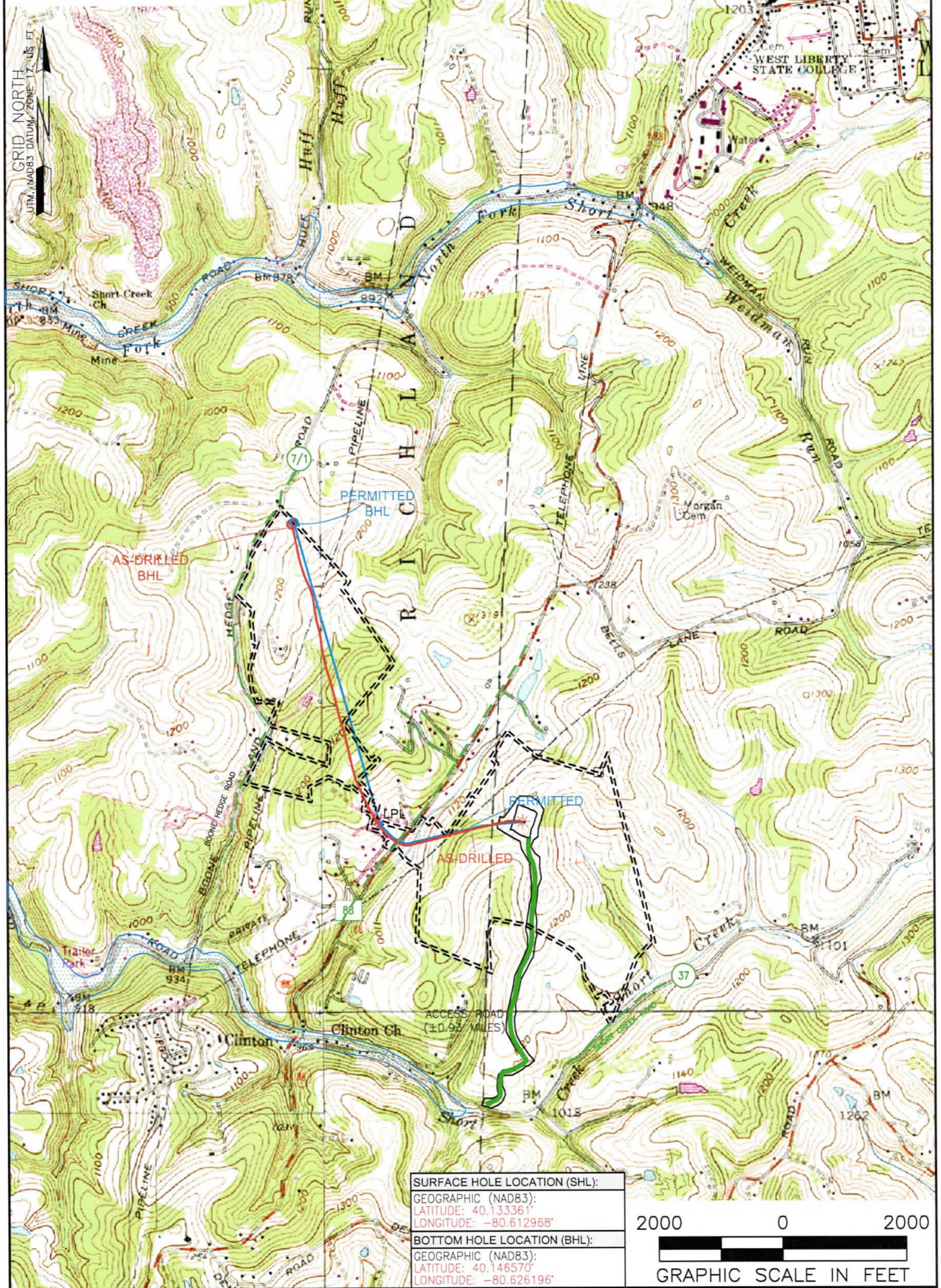
** Information is based on the maximum potential for concentration and thus the total may be over 100%

*** 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



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.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- ⊗ EXISTING / PRODUCING WELLHEAD
- LPL X LANDING POINT LOCATION
- 🌊 FLOOD PLAIN
- ACCESS ROAD
- - - PUBLIC ROAD
- - - - ACCESS ROAD TO PREV. SITE
- == == LEASE BOUNDARY
- PROPOSED PATH
- ASDRILLED PATH

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: DALLAS HALL OHI	WELL # 201H	SERIAL #
ADDRESS: 1300 FORT PIERPONT RD. SUITE 200 MORGANTOWN, WV 26508	COUNTY - CODE OHIO - 069	DISTRICT; LIBERTY	
SURFACE OWNER: AGNES L. HALL	USGS 7 1/2 QUADRANGLE MAP NAME BETHANY, WV	API # 047-069-00283	

Latitude: 40°10'00" SURFACE HOLE 8,286'

BOTTOM HOLE 334'

Latitude: 40°10'00"

**JACKSON SURVEYING
INC.**

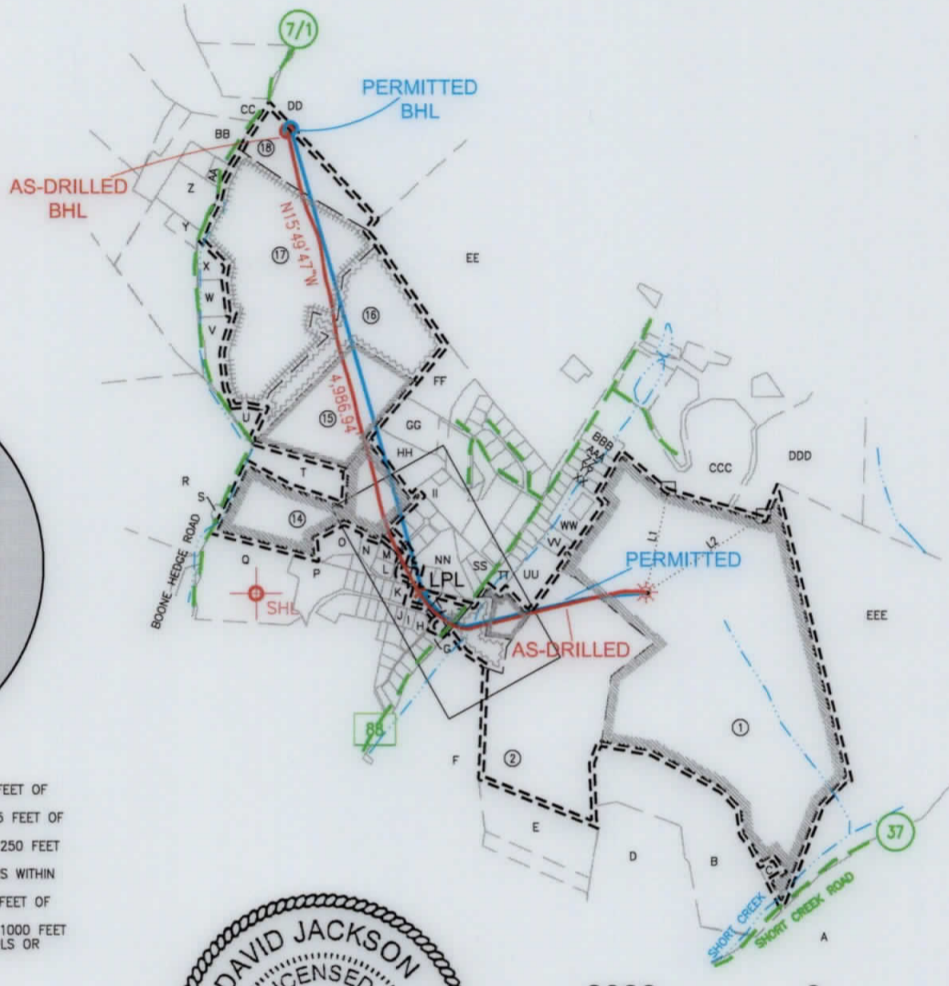
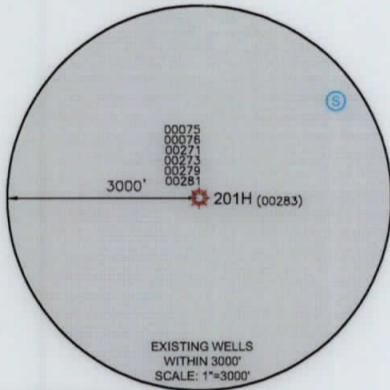
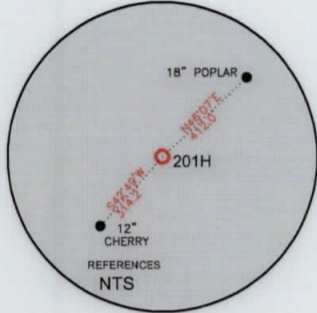
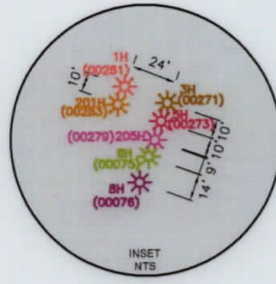
2413 EAST PIKE ST. # 112
Clarksburg, WV 26301
304-623-5851

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,442,630.840
EASTING: 532,972.660
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,442,619.420
EASTING: 532,269.190
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,444,100.130
EASTING: 531,851.540

GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 11°19'10" E	1109.37'	SHL TO LANDMARK	FD. 5/8" REBAR
L2	N 57°05'01" E	1469.89'	SHL TO LANDMARK	36" BLACK CHERRY
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 89°54'50" W	2357.29'	2557.30'	SHL TO LP

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,442,630.905
EASTING: 532,972.651
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,442,629.826
EASTING: 532,254.148
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,444,092.204
EASTING: 531,839.518



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.

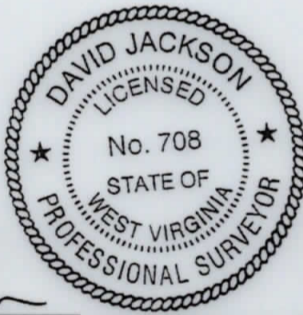
NOTES ON SURVEY

- 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.
- 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 **SWN** Production Company™

(+) 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 #: 201H
API WELL #: 47 069 00283
STATE COUNTY PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW
 WATERSHED: SHORT RUN-OHIO RIVER (HUC-10) ELEVATION: 1274.2'
 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: 6,099 TVD 11,904 TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNED 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

LEGEND:	— 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		DRAWN BY: N. MANO
Ⓜ EXISTING WATER WELL	— PROPOSED PATH		SCALE: 1" = 2000'
Ⓢ EXISTING SPRING			DRAWING NO:
			WELL LOCATION PLAT

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



REVISIONS:

COMPANY:

SWN
 Production Company, LLC

SWN ^{R⁺}/_A ^{V⁺}
 Production Company™

OPERATOR'S
 WELL #:

DALLAS HALL OHI
 201H

DISTRICT:
 LIBERTY

COUNTY:
 OHIO

API NUMBER:
 47-069-00283

STATE:
 WV

DATE: 07-09-2019

DRAWN BY: N. MANO

SCALE: N/A

DRAWING NO:

WELL LOCATION PLAT 2



**JACKSON SURVEYING
INC.**

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

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	AGNUS J. HALL (S)	03-L7-21.1
3	KEITH D. CASTLE & AMANDA M. CASTLE (S)	04-R12B-1.9
4	DAVID N. CASTLE & RITE A. CASTLE (S)	04-R12B-1.3
5	MATTHEW M. WINE (S)	04-R12-19.19
6	THE DELORES M. FEDORKA TRUST 1993 (S)	04-R12-19.49
7	LUKA A. SHORT & JENNIFER L. KUCERA SHORT (S)	04-R12-19.20
8	SUSAN K. KUBOVICZ (S)	04-R12-19.23
9	JEFFREY M. KNIGHT & KRISTEN M. KNIGHT (S)	04-R12-19.26
10	VIRGINIA S. STERN (S)	04-R12B-10.8
11	VIRGINIA S. STERN (S)	04-R12B-10.9
12	ANDREW HOWARD (S)	04-R12B-10.10
13	GAVIN O. RICKETTS (S)	04-R12B-10.3
14	BRADFORD HARTLEY & NANNETTA HARTLEY	04-R9-1.3
15	RCK 2 GROUP, LLC	04-R9-01
16	RCK 2 GROUP, LLC	04-R9-27
17	LA DONNA MARTIN EVANS	04-R9-3.5
18	WESBANCO TRUST & INVESTMENT SERVICE	04-R9-16.1

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	WHITAKER REVOCABLE FAMILY TRUST	03-L7-27
B	AGNES L. HALL	03-L7-20
C	AGNES L. HALL	03-L7-01
D	AGNES L. HALL	03-L7-21
E	MELISSA MEALY & JENNA FAUBER	04-R12-39
F	JOHN P. WETTY	04-R12-35
G	THE DELORES M. FEDORKA TRUST 1993	04-R12-19.48
H	THE DELORES M. FEDORKA TRUST 1993	04-R12-19.16
I	DEANA M. EDGMON	04-R12-19.18
J	ALEX J. GRUBER	04-R12-19.40
K	BRIAN S. BAKAITIS	04-R12-19.24
L	RALPH I. JAMES & CLARA L. JAMES	04-R12B-10.14
M	EUSEBIO ELVESTROM RODRIGUEZ	04-R12B-10.2
N	BRADFORD & NANNETTA HARTLEY	04-R9-1.4
O	BRADFORD & NANNETTA HARTLEY	04-R9-1.2
P	DOMINIC J. & SHERRIE D. COTTRELL	04-R12-19.34
Q	DOMINIC J. & SHERRIE D. COTTRELL	04-R12-19.30
R	TUNNEL RIDGE LLC	04-R8-61.4
S	GREGORY TAGGART	04-R9-50
T	WILLIAM H. & C. L. REUTHER	04-R9-2
U	BETH ANNE KENNEDY	04-R9-3.4
V	WILLIAM ISAAC KNIGHT & MEREDITH SERTICH	04-R9-3.7
W	LEWIS R. HOPKINS, JR & R. F. HOPKINS	04-R9-3.3
X	LEWIS R. HOPKINS, JR. & R. HOPKINS	04-R9-4
Y	LEWIS R. HOPKINS, JR. & ROSEANN HOPKINS	04-R9-8
Z	LOGAN E. HOPKINS	04-R9-5.2
AA	MARK W. & D. L. KETTLER	04-R9-7
BB	NICHOLAS P. KLAMUT	04-R9-12
CC	JORDAN & GAYLE WEBER	04-R9-9

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
DD	CLAIRE M. CAENEY	04-R9-3
EE	LILLIAN W BROWN, TRUST	03-L4-1.1
FF	CLARK & SHARON L PAJAK	04-R9-28
GG	JUDY K JOHNSON	04-R9-29
HH	MARY ANN HART	04-R9-29.1
II	DONALD P & M E HUGHES	04-R9-32
JJ	WILLIAM J & SUSAN M GREATHOUSE	04-R12B-10.7
KK	JOSEPH R & KAY L CLAWSON	04-R12B-10.13
LL	RONALD J. FECCA & J L CHAMBERS	04-R12B-10.4
MM	JAMES & JOANNE CROFT	04-R12B-10.11
NN	JAMES E & J.J. CROFT	04-R12-36
OO	VIRGINIA S STERN	04-R12B-10.1
PP	JAMES B & B J STONEKING	04-R12B-10.5
QQ	FRANK A & C L B HOTLOSZ	04-R12B-10.6
RR	JOSEPH MICHAEL BAKER	04-R12-36.5
SS	JOSEPH S & S P CARTISANO	04-R12-36.4
TT	DOUGLAS J & JAMIE S ERNEST	04-R12B-1.2
UU	JOHN R. PYLE, SR. & T.A. PYLE	04-R12B-1.1
VV	STEVE KELLAS	04-R12B-1.5
WW	MATHEW H. GOSSETT	04-R12B-1
XX	GEORGE STROMATOS	03-L4-24
YY	GEORGE STROMATOS	03-L4-24.1
ZZ	GEORGE STROMATOS	03-L4-24.2
AAA	DAVID G. RUTHERS & LINDA F. RUTHERS	03-L4-22
BBB	YE M. HLA & EI E. MYINT	03-L4-20
CCC	DAVID M. WEAVER & BETH R. WEAVER	03-L4-15
DDD	CATHERINE EVANS & DAVID EVANS	03-L4-13.1
EEE	MARY HELEN CLISER, TRUSTEE	03-L7-02

REVISIONS:	COMPANY:		 	
	OPERATOR'S	DALLAS HALL OHI	API NUMBER:	DATE: 07-09-2019
	WELL #:	201H	47-069-00283	DRAWN BY: N. MANO
	DISTRICT:	COUNTY:	STATE:	SCALE: N/A
	LIBERTY	OHIO	WV	DRAWING NO:
				WELL LOCATION PLAT 3