

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

JAN 29 2021

WV Department of
Environmental Protection

API 47 - 069 - 00312 County OHIO District RICHLAND
Quad TILTONSVILLE, OH-WV Pad Name FRANZ THOMAN-OHI-PAD1 Field/Pool Name PANHANDLE FIELD WET
Farm name FRANZ THOMAN Well Number FRANZ THOMAN OHI 10H
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 4,442,980.61 Easting 528,973.55
Landing Point of Curve Northing 4,442,932.17 Easting 529,246.83
Bottom Hole Northing 4,441,233.29 Easting 530,204.11

Elevation (ft) 1137.3' 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 10/8/2019 Date drilling commenced 12/15/2019 Date drilling ceased 12/30/2019
Date completion activities began 9/14/2020 Date completion activities ceased 11/07/2020
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 326' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 473' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 344' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:
B.S.
09/10/2021

WR-35
Rev. 8/23/13

JAN 29 2021

API 47-069 - 00312

Farm name FRANZ THOMAN

Well number FRANZ THOMAN OHI 10H

WV Department of Environmental Protection

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	432	NEW	J-55/54.50#	325' / 330'	Y
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	1,753	NEW	J-55/36#		Y; 38 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	12,833	NEW	P-110/20#		Y
Tubing		2.875	6,437	NEW	P-110/6.5#		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	683	15.60	1.19	812.77	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	674	15.60	1.19	802.06	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2,346	15.60	1.17	2,744.82	SURFACE	24
Tubing							

Drillers TD (ft) 12,833'

Loggers TD (ft) 12,833'

Deepest formation penetrated MARCELLUS

Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 5,052'

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 _____

09/10/2021

API 47- 069 - 00312 Farm name FRANZ THOMAN Well number FRANZ THOMAN OHI 10H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>MARCELLUS</u>	<u>5,845'</u>	<u>TVD</u>	<u>6,165'</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____

RECEIVED
Office of Oil and Gas

JAN 29 2021

WV Department of
Environmental Protection

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1183 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 1,437 mcfpd Oil 168 bpd NGL _____ bpd Water 1,992 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 SCHLUMBERGER
Address 4800 W GREENS RD City HOUSTON State TX Zip 77066

Cementing Company BJ SERVICES
Address 11211 FM 2920 City TOMBALL State TX Zip 77375

Stimulating Company SWN WELL SERVICES
Address PO BOX 12359 City SPRING State TX Zip 77391-2359

Please insert additional pages as applicable.

Completed by Elizabeth Gee Telephone 832-796-2873
Signature *Elizabeth Gee* Title Staff Regulatory Analyst Date 1/27/2021

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

09/10/2021

FRANZ THOMAN OHI 10H
ATTACHMENT 1
PERF REPORT

RECEIVED
Office of Oil and Gas

JAN 29 2021

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	8/10/2020	12,819	12,743	36
2	10/7/2020	12,642	12,461	36
3	10/8/2020	12,428	12,247	36
4	10/9/2020	12,213	12,032	36
5	10/9/2020	11,999	11,818	36
6	10/9/2020	11,784	11,603	36
7	10/10/2020	11,570	11,389	36
8	10/10/2020	11,355	11,174	36
9	10/10/2020	11,141	10,960	36
10	10/11/2020	10,926	10,745	36
11	10/11/2020	10,712	10,527	36
12	10/12/2020	10,497	10,316	36
13	10/12/2020	10,283	10,102	36
14	10/12/2020	10,068	9,887	36
15	10/13/2020	9,854	9,673	36
16	10/13/2020	9,639	9,458	36
17	10/14/2020	9,425	9,244	36
18	10/14/2020	9,210	9,025	36
19	10/15/2020	8,996	8,813	36
20	10/15/2020	8,781	8,600	36
21	10/15/2020	8,563	8,386	36
22	10/16/2020	8,352	8,171	36
23	10/16/2020	8,138	7,957	36
24	10/17/2020	7,923	7,738	36
25	10/17/2020	7,709	7,528	36
26	10/17/2020	7,494	7,313	36
27	10/18/2020	7,280	7,099	36
28	10/18/2020	7,065	6,884	36
29	10/18/2020	6,848	6,670	36
30	10/19/2020	6,636	6,455	36
31	10/19/2020	6,422	6,241	36

WV Department of
Environmental Protection

**FRANZ THOMAN OHI 10H
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	9/19/2020	80.3	8,233	4,732	3,981	221,180	77,004	0
2	10/8/2020	96.6	7,487	5,578	4,657	359,560	7,738	0
3	10/8/2020	78.7	6,889	5,391	4,301	356,740	8,086	0
4	10/9/2020	88.8	7,498	5,182	4,655	356,140	7,712	0
5	10/9/2020	89.1	7,269	5,201	4,380	356,620	7,773	0
6	10/10/2020	90.2	7,391	5,546	4,561	357,860	7,874	0
7	10/10/2020	81	6,836	5,446	4,558	356,820	7,595	0
8	10/10/2020	89.6	7,595	6,154	4,300	353,540	7,346	0
9	10/11/2020	89.8	7,664	5,905	4,256	362,340	7,579	0
10	10/11/2020	86	7,445	5,691	4,025	352,580	7,634	0
11	10/12/2020	89.9	7,177	5,897	4,325	353,920	7,590	0
12	10/12/2020	89.5	7,258	5,020	4,398	354,920	7,573	0
13	10/12/2020	91.4	7,333	5,887	4,456	361,060	8,013	0
14	10/13/2020	90.2	7,270	6,056	4,364	358,000	7,826	0
15	10/13/2020	90.2	7,178	5,626	4,771	350,240	7,681	0
16	10/14/2020	90.8	7,027	5,521	4,278	351,220	7,512	0
17	10/14/2020	95.5	7,298	5,416	4,353	351,900	7,942	0
18	10/15/2020	94	7,063	5,725	4,077	354,820	7,787	0
19	10/15/2020	96.8	7,136	5,422	4,425	355,840	7,919	0
20	10/15/2020	75.8	7,402	5,320	4,255	353,020	7,609	0
21	10/16/2020	87.3	7,051	5,340	4,186	344,280	7,590	0
22	10/16/2020	91.8	7,009	5,526	4,202	358,840	7,928	0
23	10/16/2020	90.6	6,974	5,287	3,956	349,660	7,793	0
24	10/17/2020	90.2	6,697	5,451	4,612	350,690	7,705	0
25	10/17/2020	92.9	6,632	4,974	4,422	371,510	8,044	0
26	10/18/2020	91.5	6,325	4,910	4,182	354,560	7,929	0
27	10/18/2020	95.8	6,788	4,267	4,349	355,040	7,824	0
28	10/18/2020	99.6	6,694	5,674	4,101	359,730	8,221	0
29	10/19/2020	93.8	7,038	5,412	4,208	355,060	7,720	0
30	10/19/2020	97.9	6,416	5,591	4,535	358,420	7,757	0
31	10/19/2020	93.2	6,250	5,750	4,500	354,030	7,805	0

RECEIVED
Office of Oil and Gas

JAN 29 2021

WV Department of
Environmental Protection



Well Name: Franz Thoman OHI 10H 47069003120000

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	326.00	326.00	
Top of Salt Water	473.00	473.00	NA	NA	
Pittsburgh Coal	341.00	341.00	346.00	346.00	
Pottsville (ss)	480.00	480.00	891.00	891.00	
Raven Cliff (ss)	891.00	891.00	1112.00	1112.00	
Maxton (ss)	1112.00	1112.00	1449.00	1446.00	
Big Injun (ss)	1449.00	1446.00	5442.00	5339.00	
Rhinstreet (shale)	5418.00	5342.00	5686.00	5576.00	
Cashaqua (shale)	5686.00	5576.00	5749.00	5623.00	
Middlesex (shale)	5749.00	5623.00	5851.00	5694.00	
Burket (shale)	5851.00	5694.00	5879.00	5712.00	
Tully (ls)	5879.00	5712.00	5974.00	5765.00	
Mahantango (shale)	5974.00	5765.00	6165.00	5845.00	
Marcellus (shale)	6165.00	5845.00	NA	NA	GAS

RECEIVED
Office of Oil and Gas

JAN 29 2021

WV Department of
Environmental Protection

09/10/2021

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date	9/19/2020
Job End Date	10/20/2020
State	West Virginia
County	Ohio
API Number	47-069-00312-00-00
Operator Name	Southwestern Energy
Well Name and Number	FRANZ THOMAN OHI 10
Latitude	40.13665867
Longitude	-80.65989248
Datum	NAD83
Federal Well	NO
Indian Well	NO
True Vertical Depth	5,915
Total Base Water Volume (gal)	13,003,378
Total Base Non Water Volume	0

RECEIVED
Office of Oil and Gas
JAN 29 2021
Department of
Environmental Protection



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose(s)	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)	Maximum Ingredient Concentration in HF Fluid (% by mass)	Comments
Base Water	Operator	Base Fluid					
			Water	7732-18-5	100.00000	90.64588	Density = 8.345
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	85.00000	0.19302	

09/10/2021

RECEIVED
Office of Oil and Gas
JAN 29 2021
WV Department of
Environmental Protection

Sand	SWN Well Services	Proppant							
					Listed Below				
Econo-CI200	SWN Well Services	Corrosion Inhibitor							
					Listed Below				
Tolicide PS 50A	SWN Well Services	Biocide							
					Listed Below				
SWN FRW-11LC	SWN Well Services	Friction Reducer							
					Listed Below				
Ecopol-FEAC	SWN Well Services	Iron Control							
					Listed Below				
HCL	SWN Well Services	Solvent							
					Listed Below				
Plexaid 655WG	SWN Well Services	Scale Inhibitor							
					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	9.09702		
				Hydrochloric Acid	7647-01-0	15.00000	0.02372		
				Tetrakis	55566-30-8	55.00000	0.01573		
				Petroleum Distillates, Hydrotreated	64742-47-8	25.00000	0.01497		
				Glycerin	56-81-5	50.00000	0.00469		

RECEIVED
Office of Oil and Gas
JAN 29 2021
WV Department of
Environmental Protection

			Ammonium Chloride	12125-02-9	2.00000	0.00120
			Diethylenetriamine penta	15827-60-8	10.00000	0.00094
			Oleic Acid Diethanolamide	93-83-4	1.50000	0.00090
			Alcohols, C12-1, ethoxylated	68551-12-2	1.50000	0.00090
			Acetic Acid	64-19-7	37.50000	0.00032
			Acrylic acid terpolymer	397256-50-7	1.00000	0.00029
			Methanol	67-56-1	80.00000	0.00019
			Citric Acid	77-92-9	22.50000	0.00019
			Oxyalkylated fatty acid	68951-67-7	9.67400	0.00002
			Fatty acids	61790-12-3	5.02700	0.00001
			Modified thiourea polymer	68527-49-1	4.74600	0.00001
			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)

LATITUDE: 40°10'00" SURFACE HOLE (2000' SCALE)

9751'

LATITUDE: 40°07'30" BOTTOM HOLE (2000' SCALE)

5737'

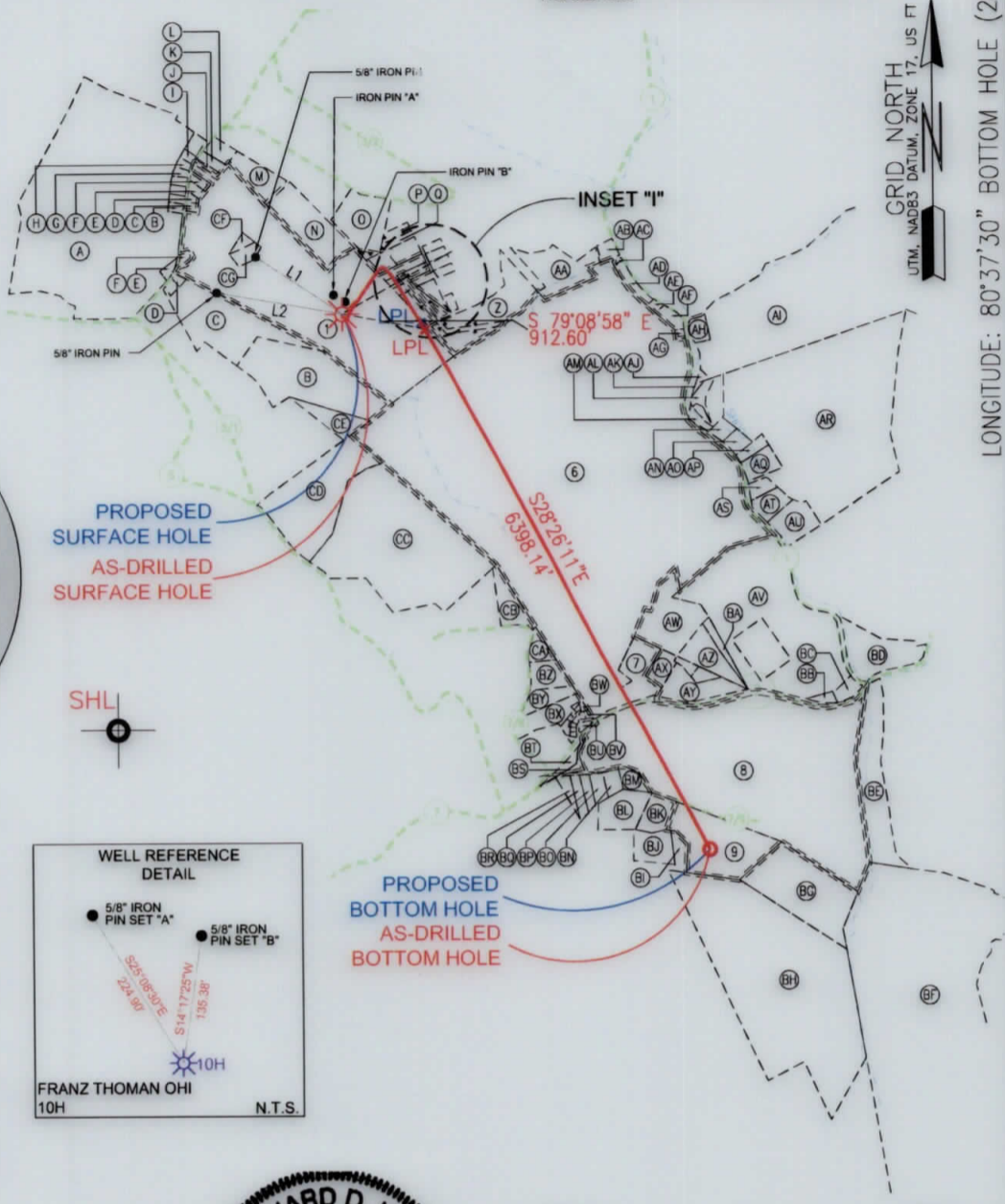
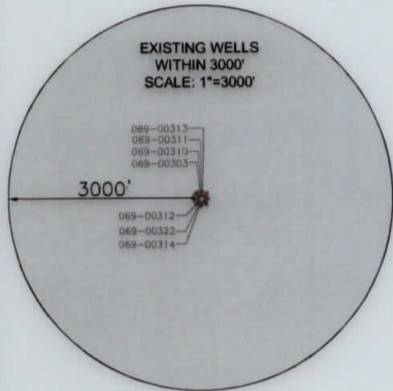
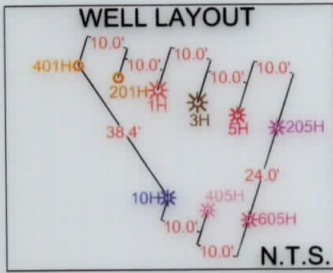


68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100

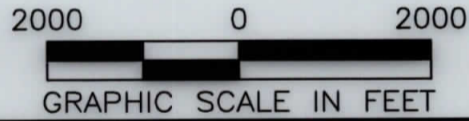
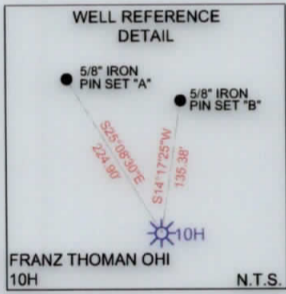
LINE	BEARING	DISTANCE
L1	S56°26'35"E	1125.70'
L2	S80°06'21"E	1383.34'

NOTES ON SURVEY

1. COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. 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.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD
5. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
6. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
7. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4442980.61 EASTING: 528973.55
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4442932.17 EASTING: 529246.83
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4441233.29 EASTING: 530204.11
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4442980.61 EASTING: 528973.55
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4442954.67 EASTING: 529235.18
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4441232.31 EASTING: 530205.20



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. 2041 *[Signature]* 6/3/20

COMPANY: **SWN** Production Company, LLC

WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	FRANZ THOMAN OHI
	PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)	OPERATOR'S WELL #: 10H	API WELL #: 47 069 00312

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,137.3'

DISTRICT: RICHLAND COUNTY: OHIO QUADRANGLE: TILTONVILLE, OH-WV & WHEELING, WV

SURFACE OWNER: FRANZ THOMAN ACREAGE: ±69.418

OIL & GAS ROYALTY OWNER: FRANZ THOMAN ACREAGE: ±69.418

DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) AS-DRILLED

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,945' TVD 12,833' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

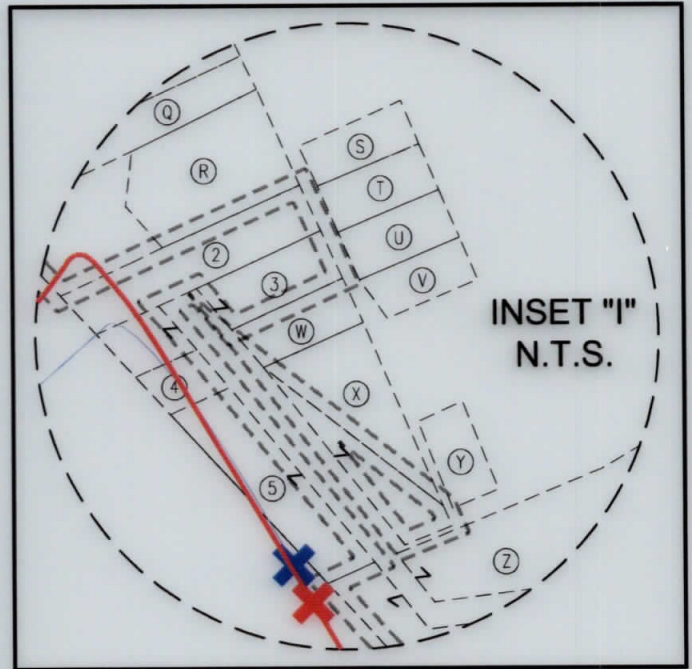
DESIGNATED AGENT: BRITTANY WOODY ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND: ○ EXISTING BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD LPL* EXISTING LANDING POINT LOCATION ○ PROPOSED SURFACE HOLE / BOTTOM HOLE LPL* PROPOSED LANDING POINT LOCATION	ACCESS ROAD PUBLIC ROAD FLOOD PLAN LEASE BOUNDARY ASDRILLED PATH PROPOSED PATH	REVISIONS: DATE: 06-03-2020 API NO: 47-069-00312 DRAWN BY: R. GRIMES SCALE: 1" = 2000' DRAWING NO: 2018-781 WELL LOCATION PLAT
--	---	--

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	FRANZ THOMAN (S)/(R)	04-R8-62.0
TRACT	SURFACE OWNER	TAX PARCEL
2	JOLLY W. WHEELER, JR. & KAREN M. WHEELER	04-R8Q-14.0
3	FRANK JOSEPH & SARA RENEE TAROVISKY	04-R8Q-28.0
4	PAULA J. & EDWARD C. TOMASIK	04-R8Q-03.0
5	RUSSELL E. & ROSEANN L. TERAMANA	04-R8Q-02.0
6	SANDSCREST FOUNDATION, INC	04-R11-15.0
7	LEE A. BULIAN & DEIRDRE A. BULIAN	04-R11-29.0
8	BOY SCOUTS COUNCIL OF AMERICA, HUOROQUOIS	04-R11-36.0
9	JASON T. & VALERIE L. WAHL	04-R11-37.1

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	THE KATHLEEN S. CRAFT FOUNDATION & THE JOSEPH W. CRAFT, III FOUNDATION	04-R8-51.0
B	JOHN M. MCGEE	04-R8P-17.0
C	DONALD P. GAYDA	04-R8P-18.0
D	CHARLES R. BOND	04-R8K-110.0
E	TYLER S. SCHWERTFEGER	04-R8K-111.0
F	TYLER S. SCHWERTFEGER	04-R8K-112.0
G	ELMER K. REED	04-R8K-106.0
H	ELMER K. REED	04-R8K-105.0
I	BERNARD H. & KELLY J. BOZENSKE	04-R8K-104.0
J	RAY B. & ANN M. WILSON	04-R8-62.7
K	ERIC DURELL & CHERYL LYNN RICHARDSON	04-R8-62.6
L	DAVID R. & KAREN MULDREW	04-R8K-101.0
M	DELORA L. TAYLOR	04-R8K-100.0
N	SUSAN J. SOBOTA	04-R8-62.3
O	JOHN T. WRIGHT	04-R8P-11.0
P	JACQUELINE M. SUTTON	04-R8Q-10.0
Q	AMY D. DAGUE	04-R8Q-11.0
R	DALE EBBERT & BEVERLY JEAN KURNER	04-R8Q-12.0
S	ROGER L. MOORE	04-R8Q-30.1
T	JOLLY W. WHEELER, JR. & KAREN M. WHEELER	04-R8Q-29.0
U	FRANK J. & S.R. TAROVISKY	04-R8Q-28.0
V	TOMASIK PAULA J. & EDWARD C.	04-R8Q-27.0
W	TOMASIK PAULA J. & EDWARD C.	04-R8Q-16.0
X	RUSSELL E. & ROSEANN L. TERAMANA	04-R8Q-17.0
Y	RUSSELL E. & ROSEANN L. TERAMANA	04-R8Q-18.0
Z	RALPH J. & KENDRA LEE HUFFMAN	04-R8Q-60.0
AA	LOUIS J. ENNIS	04-R8Q-61.0
AB	ANDREW JOSEPH VDOVJAK, NANETTE DEVAULT, JACOB ANDREW VDOVJAK, III & JOHN PAUL VDOVJAK, JR.	04-R8Q-79.0
AC	SANDSCREST FOUNDATION, INC	04-R11-15.0
AD	TUNNEL RIDGE, LLC	04-R8-72.0
AE	TUNNEL RIDGE, LLC	04-R8-72.1
AF	DEBRA HERCULES	04-R8-72.2
AG	TUNNEL RIDGE, LLC	04-R8-75.0
AH	TUNNEL RIDGE, LLC	04-R8-61.1
AI	TUNNEL RIDGE, LLC	04-R8-61.4
AJ	TUNNEL RIDGE, LLC	04-R8-61.2
AK	TUNNEL RIDGE, LLC	04-R8-61.3
AL	TUNNEL RIDGE, LLC	04-R11-34.12
AM	TUNNEL RIDGE, LLC	04-R11-34.7
AN	TUNNEL RIDGE, LLC	04-R11-34.2
AO	TUNNEL RIDGE, LLC	04-R11-34.1
AP	TUNNEL RIDGE, LLC	04-R11-34.9
AQ	TUNNEL RIDGE, LLC	04-R11-34.13
AR	TUNNEL RIDGE, LLC	04-R12-01.3
AS	JAMES V. & EDITH M. STANTON	04-R11-34.4
AT	JAMES & EDITH STANTON	04-R11-34.11
AU	JAMES V. & EDITH M. STANTON	04-R11-34.0
AV	CHRISTOPHER P. & CHERYL D. RILEY	04-R11-33.0
AW	JUNE L. PAULL	04-R11-15.1
AX	BENJAMIN C. & K.C. DOBKIN	04-R11-30.0
AY	JOHN F. & CHERYL A. DEBLASSIS	04-R11-30.3
AZ	LEE C., III & JUNE W. PAULL	04-R11-32.0
BA	CHRISTOPHER P. & CHERYL D. RILEY	04-R11-32.1
BB	RICHARD LINK	04-R11-36.2
BC	RUTH J. DEAN	04-R11-36.1
BD	RELYKS, LLC	04-R11-35.3
BE	BOY SCOUTS COUNCIL OF AMERICA, OHIO RIVER VALLEY COUNCIL	04-R11-40.0
BF	OGLEBAY FOUNDATION, INC	04-R12-10.2
BG	DANIEL E. WHITAKER	04-R11-37.0
BH	PARKS SYSTEM TRUST FUND	04-R11-38.0
BI	ROBERT R. & K.A. CUSTER	04-R11-24.2
BJ	DENISE LYNN DANISON	04-R11-24.0
BK	MARY ANN RUCKMAN, REVOCABLE TRUST	04-R11-25.0
BL	JOHN W. & S.A. PASCOLI	04-R11-26.0
BM	JOHN W. & S.A. PASCOLI	04-R11-27.0
BN	JOHN W. PASCOLI	04-R11L-19.0
BO	WILLIAM R. & E.N. SHOAF	04-R11L-20.0
BP	CURTIS N. DARLENE E. SHOAF	04-R11L-21.0

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
BQ	JEREMY B. & TRACY M. WOOD	04-R11L-22.0
BR	MICHAEL L. KIRSCHTEN & JENNIFER L. KIRSCHTEN	04-R11L-23.0
BS	HUROQUOIS COUNCIL BSA	04-R11-28.1
BT	JEREMY B. & TRACY M. WOOD	04-R11-28.0
BU	NICHOLAS C. ROXYB	04-R11G-45.0
BV	BLANCHE P. SLOAN	04-R11G-44.0
BW	JOSEPH T., SR. & JEAN L. MOSES	04-R11G-38.0
BX	JOSEPH C. & DEBRA A. EDDY	04-R11L-13.0
BY	DIANA LYNN SHACKELFORD	04-R11G-36.0
BZ	DIANA J. MICHAELS	04-R11G-35.0
CA	JAMES S. & MONICA J. PEKLINSKY	04-R11G-35.1
CB	BENJAMIN JAMES SCHNEIDER	04-R11G-30.1
CC	SHAWN G. & AIMEE M. STERN	04-R11-16.13
CD	KRISTINE N. MOLNAR	04-R11-16.4
CE	KRISTEN N. MOLNAR	04-R11-13.1
CF	KASMIR MAJEWSKI & EDWARD A. MAJEWSKI	04-R8-62.2
CG	KASMIR MAJEWSKI & EDWARD A. MAJEWSKI	04-R8-62.8



09/10/2021

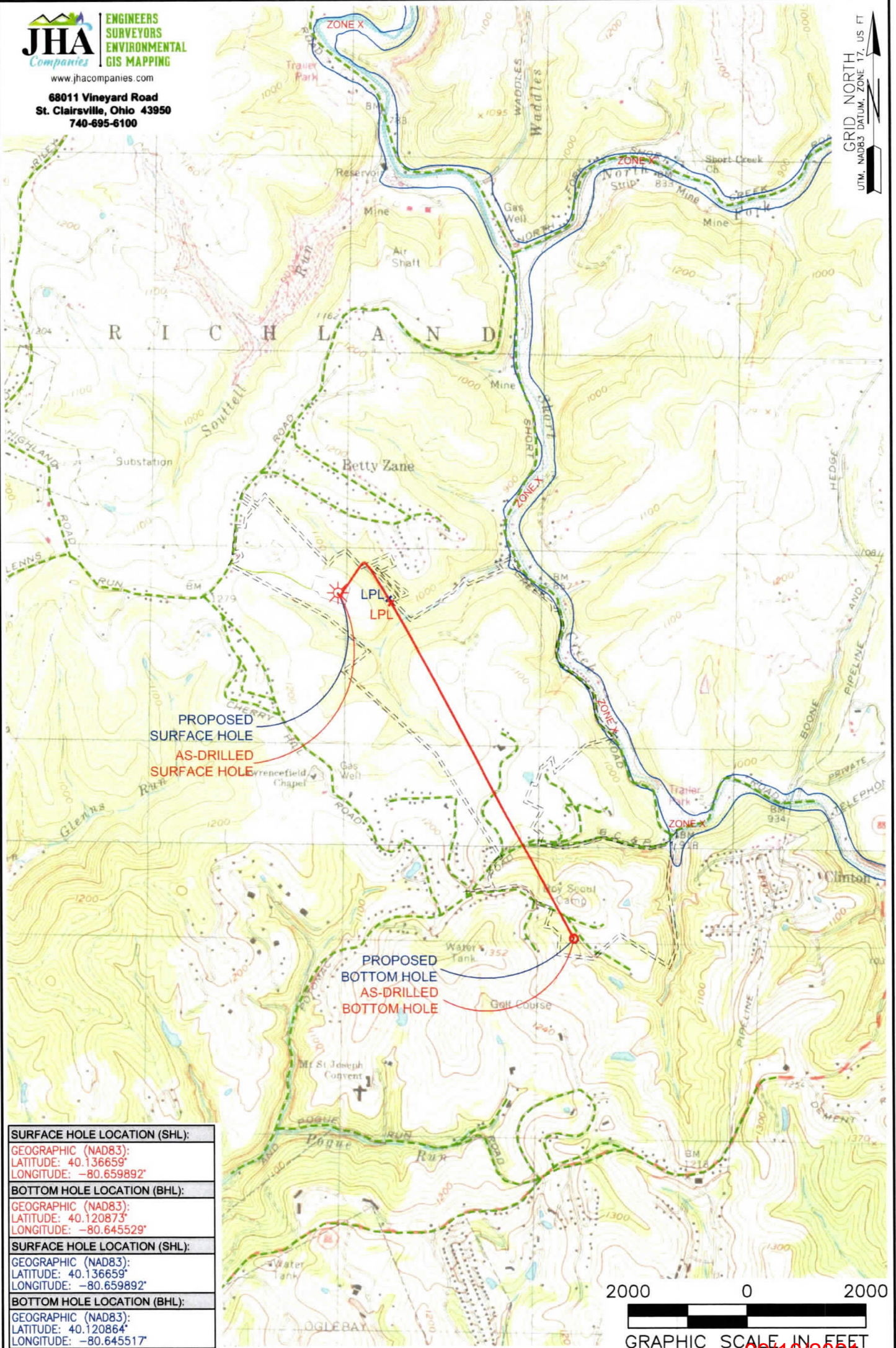
REVISIONS:	COMPANY: SWN Production Company, LLC		DATE: 06-03-2020	
	OPERATOR'S: FRANZ THOMAN OHI		API NO: 47-069-00312	
	WELL #: 10H		DRAWN BY: R. GRIMES	
	DISTRICT: RICHLAND	COUNTY: OHIO	STATE: WV	SCALE: N/A
				DRAWING NO: 2018-781
				WELL LOCATION PLAT



**ENGINEERS
SURVEYORS
ENVIRONMENTAL
GIS MAPPING**

www.jhacompanies.com

68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100



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

PROPOSED
SURFACE HOLE
AS-DRILLED
SURFACE HOLE

PROPOSED
BOTTOM HOLE
AS-DRILLED
BOTTOM HOLE

SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83): LATITUDE: 40.136659° LONGITUDE: -80.659892°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83): LATITUDE: 40.120873° LONGITUDE: -80.645529°
SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83): LATITUDE: 40.136659° LONGITUDE: -80.659892°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83): LATITUDE: 40.120864° LONGITUDE: -80.645517°



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.

RECEIVED
Office of Oil and Gas
JAN 29 2021

LEGEND:

- EXISTING BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- EXISTING LANDING POINT LOCATION
- PROPOSED SURFACE HOLE / BOTTOM HOLE
- PROPOSED LANDING POINT LOCATION
- ACCESS ROAD
- PUBLIC ROAD
- FLOOD PLAIN
- LEASE BOUNDARY
- AS-DRILLED PATH
- PROPOSED PATH

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WV Department of Environmental Protection	WELL (FARM) NAME: FRANZ THOMAN OHI	WELL # 10H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508		COUNTY: OHIO	CODE: 069	DISTRICT: RICHLAND
SURFACE OWNER: FRANZ THOMAN		USGS 7 1/2 QUADRANGLE MAP NAME: TILTONVILLE, OH-WV & WHEELING, WV		