

APR 30 2024

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

WV Department of
Environmental Protection

API 47069003620000 County OHIO District LIBERTY
Quad BETHANY, WV- Pad Name ROY RIGGLE-OHI-PAD1 Field/Pool Name PANHANDLE FIELD WET
Farm Name ROY & DEBRA R. RIGGLE Well Number ROY RIGGLE OHI 1H
Operator (as registered with the OOG) SWN Production Company LLC State TX
Address PO Box 12359 City Spring Zip 77391-2359

As Drilled Location NAD83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top Hole Northing 4,444,692.26 Easting 540,544.79
Landing Point of Curve Northing 4,444,497.64 Easting 540,293.81
Bottom Hole Northing 4,447,742.28 Easting 539,005.70

Elevation (ft) 1,251.8' GL
Permit Type Deviate Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrill Re-Work 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
See attached Mud Summary Report

Date permit issued 2023-09-18 Date drilling commenced 2023-11-17 Date drilling ceased 2023-11-28
Date Completion activities began 2024-02-17 Date Completion activities ceased 2024-03-25
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 508'
Salt water depth(s) ft 761'
Coal depth(s) ft 638'
Is coal being mined in area (Y/N) N

Oprn mine(s) (Y/N) depths N
Void(s) encountered (Y/N) depths N
Cavern(s) encountered (Y/N) depth N

APPROVED

Reviewed by: [Signature]
3/25/2024
06/14/2024

WR-35
Rev. 8/23/13

APR 30 2024

API 47069003620000

Farm name ROY & DEBRA R. RIGGLE
WV Department of
Environmental Protection

Well number ROY RIGGLE OHI 1H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Wt lb/ft	Grade	Basket Depth	Did cement circulate (Y/N) *Provide details below*	
Conductor	24.000	20.000	136	NEW	94.00	J-55		Y	
Surface	17.500	13.375	658	NEW	54.50	J-55		Y/	50
Coal									
Intermediate 1	12.250	9.625	2054	NEW	36.00	J-55		Y/	30
Intermediate 2	SEE SURFACE								
Intermediate 3									
Production	8.500	5.500	18393	NEW	20.00	P-110 HP		Y/	35
Tubing		2.875	6982	NEW	6.50	P-110			
Packer type and depth set									

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft3/sks)	Volume (ft2)	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	GROUT TO SURFACE				SURFACE	24
Surface	CLASS A	696	15.6	1.19	828.24	SURFACE	8
Coal	SEE SURFACE						8
Intermediate 1	CLASS A	802	15.6	1.18	946.36	SURFACE	
Intermediate 2							
Intermediate 3							24
Production	CLASS A	3520	14.5	1.29	4540.8		
Tubing							

Drillers TD (ft) 18,395'

Loggers TD (ft) 18,395'

Deepest formation penetrated MARCELLUS

Plug back to (ft) 18,301'

Plug back procedure N/A

Kick off depth (f 5,878' MD)

Check all wireline logs run

- caliper density deviated/directional induction sonic
 neutron resistivity gamma ray temperature

Well cored Yes No

Conventional Sidewall

Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING:

SURFACE: 9 CENTRALIZERS - EVERY THIRD JOINT OF CASING

INTERMEDIATE: 25 CENTRALIZERS - EVERY THIRD JOINT OF CASING

PRODUCTION: 367 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 AS OPEN HOLE Yes No Details _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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Farm name ROY & DEBRA R. RIGGLE Well number ROY RIGGLE OHI 1H

WV Department of Environmental Protection
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	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
SEE ATTACHMENT 2								

Please insert additional pages as applicable.

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API 47069003620000 Farm name ROY & DEBRA R. RIGGLE Well number ROY RIGGLE OHI 1H
 WV Department of Environmental Protection

PRODUCING FORMATION(S)	DEPTHS	
MARCELLUS	6,421' TVD	6,764' MD

Please insert additional pages applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2600 psi Bottom Hole _____ psi DURATION OF TEST (hrs) _____ 24

OPEN FLOW GAS 10773 mcpd OIL 960 pd NGL _____ bpd WATER 1141 bpd
 GAS MEASURED BY Estimate Orifice Pilot

LITHOLOGY/FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESH WATER, BRINE, OIL, GAS, H2S, ETC)
SEE ATTACHMENT 3					

Please insert additional pages as applicable

Drilling Contractor SWN DRILLING COMPANY City SPRING State TX Zip 77391-2359
 Address PO BOX 12359

Logging Company BAKER HUGHES City IE WOODLANI State TX Zip 77380
 Address 9110 GROGANS MILL RD

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

Company SWN DRILLING COMPANY City SPRING State TX Zip 77391-2359
 Address PO BOX 12359

Please insert additional pages as applicable.

Completed by Denise Grantham Telephone 832.796.6139
 Signature Denise Grantham Title Regulatory Specialist Date 4.29.2024

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Registry

06/14/2024

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	02/21/2024
Job End Date:	03/07/2024
State:	West Virginia
County:	Ohio
API Number:	47-069-00362-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	ROY RIGGLE OHI 1H
Latitude:	40.1516
Longitude:	-80.523957
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6464
Total Base Water Volume (gal)*:	17043306
Total Base Non Water Volume:	66484



Water Source	Percent
Surface Water, < 1000TDS	86.00%
Produced Water	14.00%

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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
Base Water	Operator	Base fluid					
Excelerate LX-15	SWN Well Services	Friction Reducer					
FE-1A	SWN Well Services	Iron Control					
HAI-501	SWN Well Services	Corrosion Inhibitor					
HCL	SWN Well Services	Solvent					
MC MX 2-2822	SWN Well Services	Scale Inhibitor					
Sand	SWN Well Services	Proppant					
Tolicide 4Frac	SWN Well	Biocide					

06/14/2024

Services		Items above are Trade Names. Items below are the individual ingredients.					
		Water	7732-18-5	100.00000	87.87538		
		Crystalline silica, quartz	14808-60-7	100.00000	12.01441		
		Hydrochloric acid	7647-01-0	15.00000	0.04159		
		Complex Amine Compound	proprietary	50.00000	0.03648		
		Hydrotreated light petroleum distillate	64742-47-8	25.00000	0.01824		
		Tetrakis (hydroxymethyl) phosphonium sulfate	55566-30-8	45.00000	0.00471		
		Surfactant	proprietary	5.00000	0.00365		
		Acetic anhydride	108-24-7	65.00000	0.00091		
		Methanol	67-56-1	60.00000	0.00080		
		Quaternary Ammonium Compounds	68424-85-1	8.00000	0.00079		
		Ethoxylated alcohols	proprietary	5.00000	0.00075		
		Alkoxylated polyhydric alcohol	proprietary	1.00000	0.00073		
		Polyethylenepoly-ethoxylated phosphonomethylated sodiumsalts	70900-16-2	20.00000	0.00053		
		Acetic acid	64-19-7	35.00000	0.00049		
		Ethanol	64-17-5	3.00000	0.00026		
		Sodium chloride	7647-14-5	5.00000	0.00013		
		Modified thiourea polymer	proprietary	30.00000	0.00013		
		Propargyl alcohol	107-19-7	5.00000	0.00002		

* 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%

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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Well Name: Roy Riggle OHI 1H 47069003620000

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	508.00	508.00	
Top of Salt Water	761.00	761.00	NA	NA	
Pittsburgh Coal	638.00	638.00	643.00	643.00	
Pottsville (ss)	758.00	758.00	867.00	867.00	
Ravencloiff (ss)	1263.00	1263.00	1390.00	1388.00	
Maxton (ss)	1483.00	1481.00	1681.00	1674.00	
Big Injun (ss)	1826.00	1813.00	2052.00	2028.00	
Berea (siltstone)	2283.00	2250.00	2761.00	2712.00	
Rhinstreet (shale)	6011.00	5848.00	6297.00	6119.00	
Cashaqua (shale)	6297.00	6119.00	6365.00	6179.00	
Middlesex (shale)	6365.00	6179.00	6488.00	6273.00	
Tully (ls)	6488.00	6273.00	6543.00	6311.00	
Mahantango (shale)	6543.00	6311.00	6764.00	6421.00	
Marcellus (shale)	6764.00	6421.00	NA	NA	GAS

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**ROY RIGGLE OHI 1H
ATTACHMENT 1
PERF REPORT**

WV Department of
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STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	2/13/2024	18,301	18,205	36
2	2/17/2024	18,172	17,995	36
3	2/21/2024	17,962	17,785	36
4	2/22/2024	17,752	17,575	36
5	2/22/2024	17,542	17,365	36
6	2/22/2024	17,332	17,155	36
7	2/23/2024	17,122	16,945	36
8	2/23/2024	16,912	16,735	36
9	2/23/2024	16,702	16,525	36
10	2/23/2024	16,492	16,315	36
11	2/24/2024	16,282	16,105	36
12	2/24/2024	16,072	15,895	36
13	2/24/2024	15,862	15,685	36
14	2/24/2024	15,652	15,475	36
15	2/25/2024	15,442	15,265	36
16	2/25/2024	15,232	15,055	36
17	2/25/2024	15,022	14,845	36
18	2/25/2024	14,812	14,635	36
19	2/25/2024	14,602	14,425	36
20	2/26/2024	14,392	14,215	36
21	2/26/2024	14,182	14,005	36
22	2/26/2024	13,972	13,795	36
23	2/26/2024	13,762	13,585	36
24	2/27/2024	13,552	13,375	36
25	2/27/2024	13,342	13,165	36
26	2/27/2024	13,132	12,955	36
27	2/28/2024	12,922	12,745	36
28	2/28/2024	12,712	12,535	36
29	2/28/2024	12,502	12,325	36
30	2/29/2024	12,292	12,115	36
31	2/29/2024	12,082	11,905	36
32	2/29/2024	11,872	11,695	36
33	2/29/2024	11,662	11,485	36
34	2/29/2024	11,452	11,275	36
35	3/1/2024	11,242	11,065	36
36	3/2/2024	11,032	10,855	36
37	3/3/2024	10,822	10,645	36
38	3/3/2024	10,612	10,435	36
39	3/4/2024	10,402	10,225	36
40	3/4/2024	10,192	10,015	36
41	3/4/2024	9,982	9,805	36
42	3/4/2024	9,772	9,595	36

**ROY RIGGLE OHI 1H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
43	3/5/2024	9,562	9,385	36
44	3/5/2024	9,352	9,175	36
45	3/5/2024	9,142	8,965	36
46	3/5/2024	8,932	8,755	36
47	3/5/2024	8,722	8,545	36
48	3/6/2024	8,512	8,335	36
49	3/6/2024	8,302	8,125	36
50	3/6/2024	8,092	7,915	36
51	3/6/2024	7,882	7,705	36
52	3/7/2024	7,672	7,495	36
53	3/7/2024	7,462	7,285	36
54	3/7/2024	7,252	7,075	36

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ROY RIGGLE OHI 1H
ATTACHMENT 2
STIM REPORT

WV Department of
Environmental Protection

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	2/21/2024	30	8,704	7,952	4,100	0	889	0
2	2/21/2024	83.6	7,629	4,871	5,236	369,180	9,820	0
3	2/22/2024	83.9	7,413	4,685	5,627	368,840	10,004	0
4	2/22/2024	92.5	8,020	3,581	4,831	370,860	9,256	0
5	2/22/2024	82	7,313	3,852	4,532	367,880	8,725	0
6	2/22/2024	79.1	7,324	5,216	4,930	367,180	7,990	0
7	2/23/2024	92	7,907	4,217	4,457	365,820	7,979	0
8	2/23/2024	87	7,915	3,182	4,863	367,780	8,030	0
9	2/23/2024	94.6	8,089	4,387	5,451	368,120	8,169	0
10	2/24/2024	89.2	7,931	4,502	4,995	368,440	8,171	0
11	2/24/2024	92	8,058	4,075	4,581	369,360	7,903	0
12	2/24/2024	93.3	8,196	3,851	5,162	368,380	7,789	0
13	2/24/2024	93.1	8,176	5,009	5,127	366,980	7,981	0
14	2/24/2024	86.3	7,407	4,844	5,421	368,340	7,888	0
15	2/25/2024	86.7	7,991	4,931	4,608	366,500	7,686	0
16	2/25/2024	80	7,226	4,185	5,217	364,520	7,460	0
17	2/25/2024	96	8,361	3,869	4,591	364,020	7,789	0
18	2/25/2024	93.2	8,054	5,142	4,962	367,620	7,904	0
19	2/26/2024	94.7	7,923	4,465	4,763	366,840	7,664	0
20	2/26/2024	94.2	7,922	5,298	4,285	369,420	7,756	0
21	2/26/2024	93.3	8,358	3,782	4,932	365,700	7,638	0
22	2/26/2024	95	8,126	3,252	5,123	367,400	7,643	0
23	2/26/2024	94.8	8,138	4,736	4,510	366,140	7,645	0
24	2/27/2024	90.2	7,828	5,960	5,131	366,740	7,474	0
25	2/27/2024	90.6	7,676	2,356	5,317	365,620	7,469	0
26	2/27/2024	90.5	7,734	5,709	5,312	369,980	8,071	0
27	2/28/2024	81.2	6,829	5,126	4,798	369,620	7,494	0
28	2/28/2024	97.1	7,509	5,320	4,311	366,260	7,462	0
29	2/28/2024	93.6	7,940	5,795	4,537	367,800	7,393	0
30	2/29/2024	93.2	7,339	4,814	4,789	367,140	7,603	0
31	2/29/2024	97.1	7,536	5,162	4,569	366,060	7,469	0
32	2/29/2024	93.6	7,167	4,379	4,895	370,120	7,446	0
33	2/29/2024	91.5	7,651	4,243	4,299	367,740	7,271	0
34	3/1/2024	86.8	7,016	3,934	4,102	369,040	7,287	0
35	3/1/2024	92.9	7,770	4,650	5,100	367,500	7,482	0
36	3/3/2024	89.5	7,170	6,321	5,100	371,120	7,531	0
37	3/3/2024	89.5	7,390	6,397	4,850	365,900	7,347	0
38	3/3/2024	85.3	7,113	4,861	4,214	367,080	7,125	0
39	3/4/2024	81.7	6,761	4,068	4,500	371,860	7,111	0
40	3/4/2024	97.1	7,025	4,641	4,986	370,720	7,313	0
41	3/4/2024	96.2	7,236	4,595	4,685	372,720	7,330	0
42	3/4/2024	88.9	7,092	4,608	4,410	366,240	7,158	0
43	3/5/2024	92.2	7,316	5,734	4,789	370,140	7,199	0
44	3/5/2024	97.2	7,025	4,363	4,677	368,860	7,602	0
45	3/5/2024	96.2	7,065	5,578	4,850	362,620	7,584	0
46	3/5/2024	86.2	6,591	4,781	4,477	372,120	7,099	0
47	3/6/2024	87	6,540	4,582	4,235	368,100	6,978	0
48	3/6/2024	88.3	6,396	4,520	4,432	368,280	7,103	0
49	3/6/2024	91.3	6,713	4,931	4,750	370,420	7,160	0
50	3/6/2024	81.8	5,876	4,609	4,231	367,680	7,274	0
51	3/6/2024	86.7	6,734	4,413	4,200	365,940	6,926	0
52	3/7/2024	87.9	6,389	4,297	4,414	368,320	6,958	0
53	3/7/2024	97.1	6,503	4,615	4,687	368,500	7,256	0

ROY RIGGLE OHI 1H
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
54	3/7/2024	97.1	6,388	4,265	4,798	366,360	7,239	0

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State of West Virginia
Department of Environmental Protection
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Well Operator's Report of
Initial Gas-Oil Ratio

WV Department of
Environmental Protection

Well Operator SWN PRODUCTION COMPANY LLC
Address PO BOX 12359
SPRING, TX 77391-2359

Designated Agent _____
Address _____

Geological Target Formation: MARCELLUS Depth 6,312 TVD feet
Perforation Interval 7,075-18,301 MD feet

Guidelines for testing:

1. A minimum of gas vented or flared.
2. A 24 hour pre-flow into pipelines or tanks.
3. Uniform producing rate during the 24 hour test per test period.
4. Measurement standards as for Form WR-39, "Report of Annual Production" (see 35CSR4-15)
5. Separate Form WR-36 for each producing formation in a multiple completion.

TEST DATA

Start of Test Date 4/13/2024	Time 9:00 AM	End of Test Date 4/14/2024	Time 9:00 AM	Duration of Test 24 Hours
Tubing Pressure 1087	Casing Pressure 1884	Separator Pressure 356	Separator Temperature 115	
Oil Production During Test 960	Gas Production During Test 10773	Water Production During Test 1141	105,000 PPM Chlorides -Salinity	
BBLs	MCF	BBLs		
Oil Gravity 60	Producing Method (flowing, pumping, gas lift etc.) Free Flowing Up Tubing			
API				

GAS PRODUCTION

Measurement Method Flange Tap <input checked="" type="checkbox"/> Pipe Tap <input type="checkbox"/> L-10 <input type="checkbox"/>		Positive Choke <input checked="" type="checkbox"/>
		Positive flow prover <input type="checkbox"/>
Orifice diameter 2"	Pipe Diameter (inside) 2"	Nominal Choke Size inches 128/64
Differential Pressure range 95-135	Max. Static pressure range 425	Prover and Orifice diameter - inches 2"
Differential 125	Static 356	
Gas Gravity (Air = 1.0) Measured	Flowing Temperature 115	Gas Temperature 115
Estimated 0.75		
24 Hour Coefficient 1	24 Hour coefficient pressure PSIA 14.65	

TEST RESULTS

Daily Oil 960	Daily Water 1141	Daily Gas 10773	Gas-Oil Ratio 11.2
------------------	---------------------	--------------------	-----------------------

Denise Grantham

Well Operator

BY DENISE GRANTHAM

ITS: DESIGNATED REPRESENTATIVE

Latitude: 40°10'00"

SURFACE HOLE 6,696'

Latitude: 40°12'30"

BOTTOM HOLE 11,688'

JACKSON SURVEYING INC.

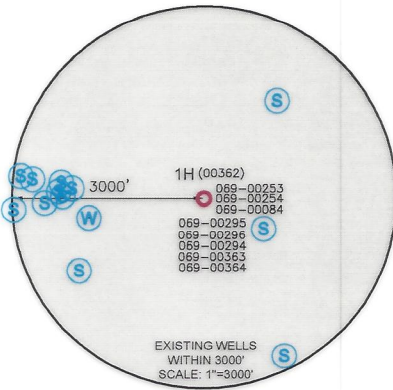
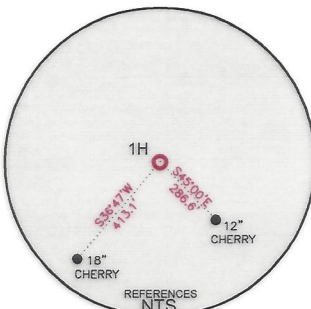
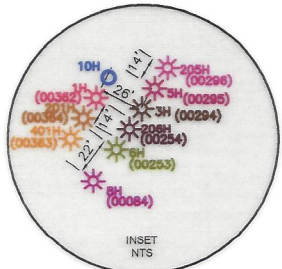
2413 EAST PIKE ST. # 112
Clarksburg, WV 26301
304-623-5851



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,692.262 EASTING: 540,544.786
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,527.234 EASTING: 540,281.867
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,447,751.921 EASTING: 539,001.927

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,692.262 EASTING: 540,544.786
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,497.641 EASTING: 540,293.807
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,447,742.283 EASTING: 539,005.695

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 44°38'24" E	1923.33'	SHL TO LANDMARK	FENCE CORNER
L2	S 37°06'42" E	2250.88'	SHL TO LANDMARK	FENCE CORNER
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 52°12'30" W	1041.98'	1799.30'	SHL TO LP



WELL RESTRICTIONS

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

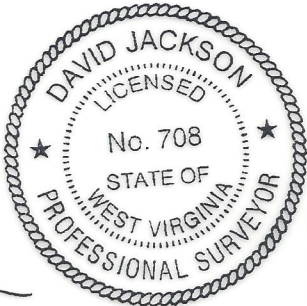
NOTES ON SURVEY

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.

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



2000 0 2000



GRAPHIC SCALE IN FEET

COMPANY:

SWN

SWN ^{R⁺}/_A ^{V⁺}

Production Company, LLC 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 SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)

ROY RIGGLE OHI
OPERATOR'S WELL #: 1H
API WELL #: 47 069 00362
STATE COUNTY PERMIT

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

WATERSHED: CASTLEMAN RUN OF BUFFALO CREEK (HUC-10) ELEVATION: 1,251.8'

DISTRICT: LIBERTY COUNTY: OHIO QUADRANGLE: BETHANY, WV-PA

SURFACE OWNER: ROY & DEBRA R. RIGGLE ACREAGE: ±171.18

OIL & GAS ROYALTY OWNER: ROY & DEBRA R. RIGGLE ACREAGE: ±171.18

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: 6,465' TMD 18,356' TMD

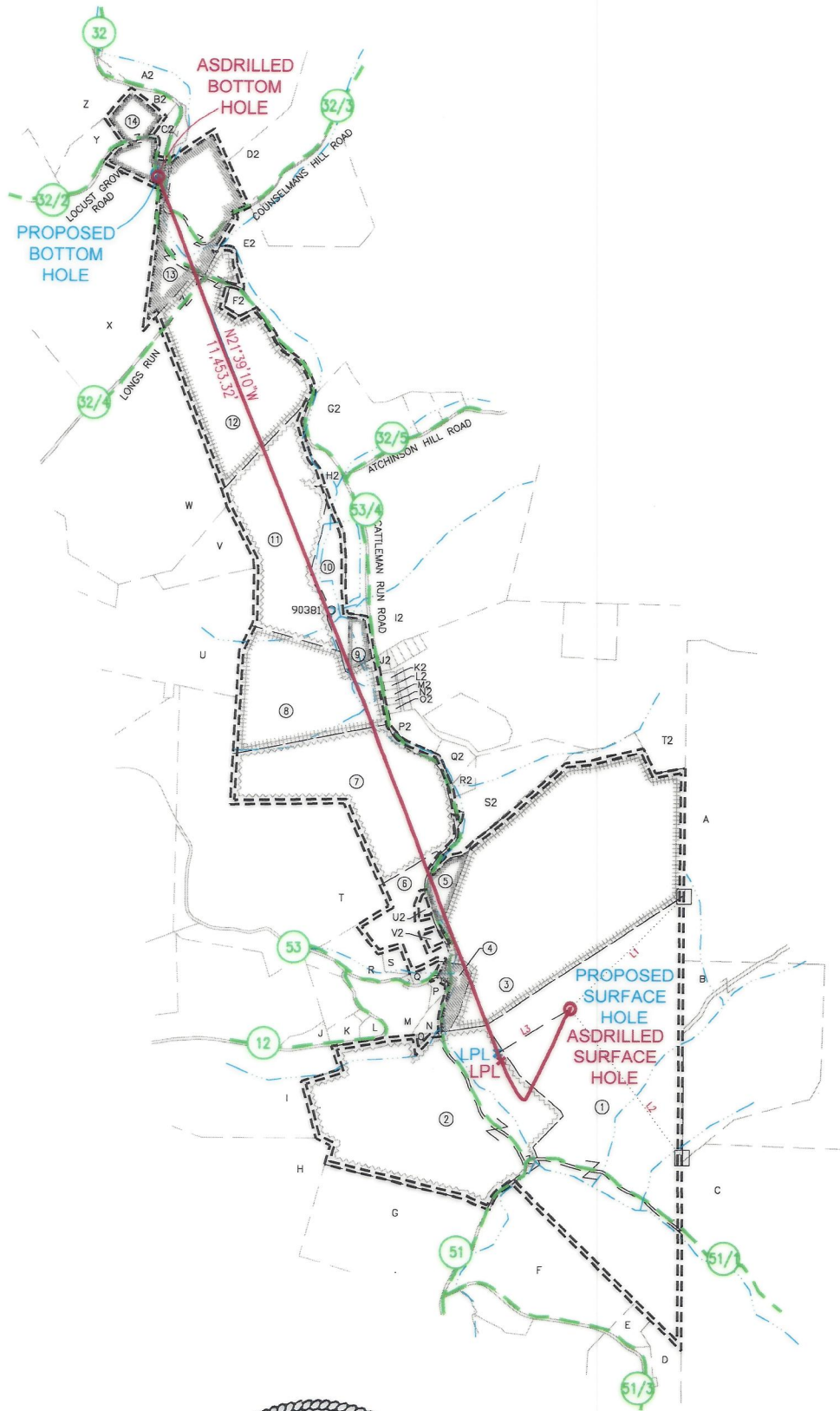
06/14/2024

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

LEGEND:	— SURVEYED BOUNDARY	— DRILLING UNIT
⊙ PROPOSED SURFACE HOLE / BOTTOM HOLE	== LEASE BOUNDARY	— ASDRILLED PATH
⊙ EXISTING / PRODUCING WELLHEAD	— PROPOSED PATH	
LPL ⊙ LANDING POINT LOCATION		
⊙ EXISTING WATER WELL		
⊙ EXISTING SPRING		
REVISIONS:		DATE: 01-10-2024
		DRAWN BY: N. MANO
		SCALE: 1" = 2000'
		DRAWING NO:
		WELL LOCATION PLAT

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

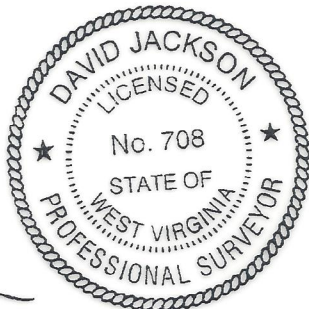
GRID NORTH
 UTM, NAD83 DATUM, ZONE 17, US FT



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



06/14/2024

REVISIONS:	COMPANY:				
	OPERATOR'S				
	WELL #:			DATE: 01-10-2024	
	DISTRICT:			DRAWN BY: N. MANO	
	LIBERTY			SCALE: N/A	
	COUNTY:			DRAWING NO:	
	OHIO			WELL LOCATION PLAT 2	
	STATE:			PROPERTY NUMBER 2501168642	
	WV			PAD ID 3001156745	



**JACKSON SURVEYING
INC.**

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

WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	RIGGLE DEBRA R & ROY (S)	3-L6-14
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	MORMANIS GREGORY N AND SHARON LEE (S)	3-L6-13
3	RYAN TIMOTHY ALAN (S)	3-L6-4
4	KNICELY AMANDA (S)	3-L6-5
5	TUSTIN SR DANIEL P & VICKI L (S)	3-L3-3.2
6	PARRISH EDGAR (S)	3-L6-2.2
7	STATE OF WV CONSERVATION COMM (S)	3-L3-1.1
8	STATE OF WV CONSERVATION COMM DIV OF NAT RES PUB LAND CORP (S)	3-L3-1
9	STATE ROAD OF WEST VIRGINIA (S)	3-B54-1
10	STATE ROAD OF WEST VIRGINIA (S)	3-B49-14
11	WEST VIRGINIA STATE OF - DIVISION OF NATURAL RESOURCES (S)	3-B49-15
12	WALDEN DANIEL E & MARY VIRGINIA (S)	3-B48-37
13	MCNICHOLAS JOHN WALTER III (S)	3-B48-36
14	WOOD RICHARD A & MELANIE (S)	3-B48-29

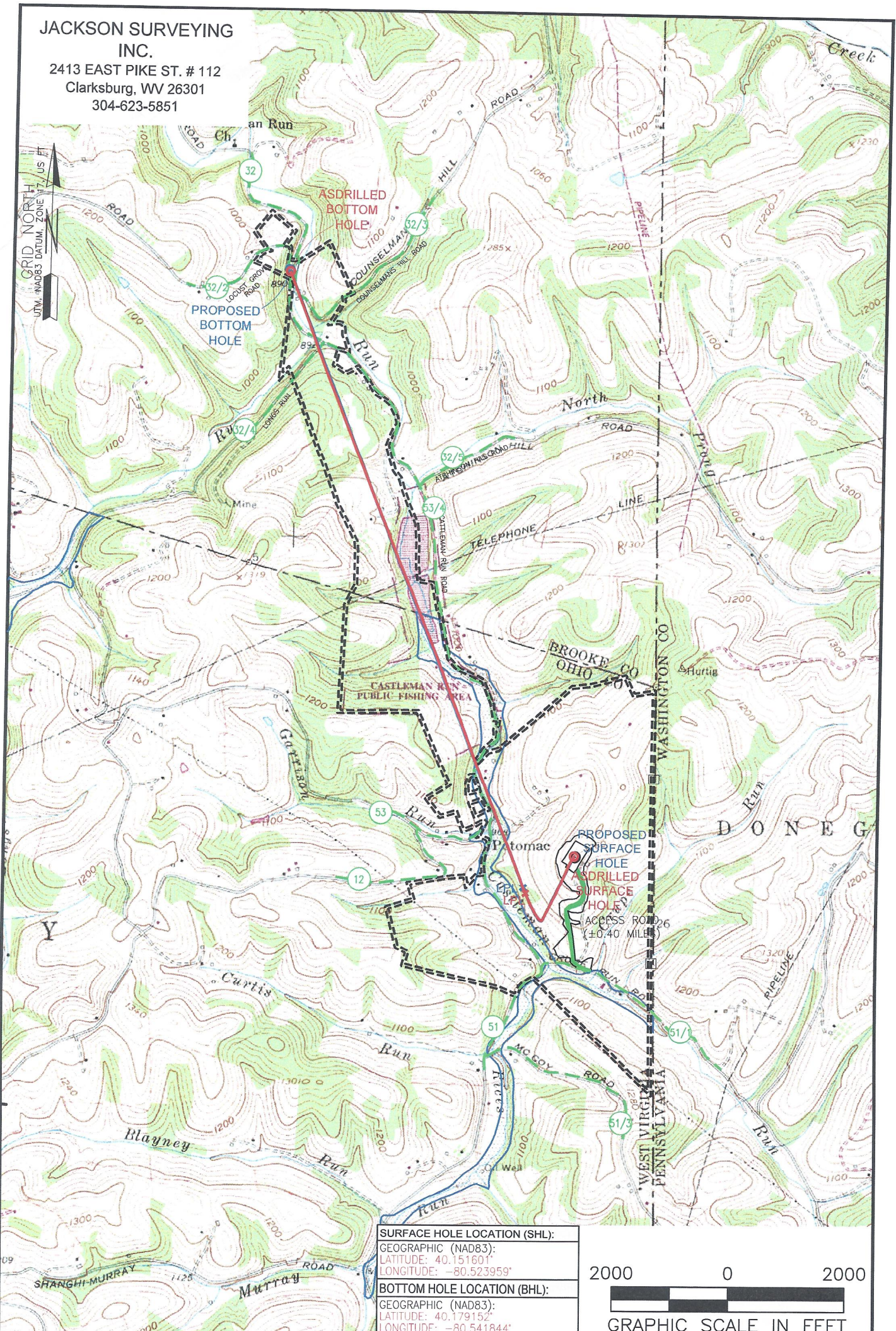
ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	ROBERT E JONES TR	230-16-1
B	RIGGLE DEBRA R & ROY	230-16-3
C	KEENER PRIMARY RES PROTECTOR TRUST JANET F KEENER TRUSTEE	230-15-5
D	WILHELM MICHAEL & JULIA E	3-L6-20
E	WILHELM JASON MICHAEL & CRYSTAL LOUISE	3-L6-20.6
F	RODGERS LEWIS IRWIN	3-L6-16
G	RODGERS LEWIS I	3-L6-15
H	TOMINACK JOHN I JR	3-L5-10
I	KESTNER GARY & TERRY	3-L5-9
J	COWAN CHERYL ANN	3-L6-21
K	MONTGOMERY PATRICK J & MONTGOMERY BRENDA LEE	3-L6-11.1
L	KELLY LYNN A	3-L6-12
M	GEAR ROBERT L & TAMMY Y	3-L6-9
N	STRAUSS JOYCE ANN	3-L6-8
O	ELLIS JOYCE A	3-L6-13.1
P	ELLIS JOYCE A	3-L6-7
Q	SCHLOSSER RONALD E JR	3-L6-6
R	ATKINSON GREGORY D; ET AL C/O JENNIFER TUCKER	3-L6-10.2
S	ATKINSON GREGORY D; ET AL C/O JENNIFER TUCKER	3-L6-10.3
T	ATKINSON GREGORY D; ET AL C/O JENNIFER TUCKER	3-L6-10
U	GRIMES MICHAEL J	3-L2-10.1
V	GRIMES DONALD; ANTHONY HOUSTON (SURV)	3-B48-39
W	WALDEN WILLIAM K & ANDREA	3-B48-38
X	WALDEN WILLIAM K & FLORENCE ANDREA (SURV)	3-B48-27
Y	WOOD RICHARD A JR & MELANIE (VOYTEK) (SURV)	3-B48-28
Z	CAMMARATA NICHOLAS J & JENNIFER C (SURV)	3-B48-25
A2	HOGAN ANDREW P	3-B48-34
B2	TABLE ROCK REALTY LLC	3-B48-30
C2	STATE ROAD COMMISSION	3-B48-42
D2	WV BUREAU OF COMMERCE DIV OF NATURAL RESOURCES	3-B49-1
E2	W VA DEPT OF NATURAL RESOURCES	3-B49-7
F2	WALDEN DANIEL E	3-B49-6
G2	JONES PERRY JEFFERSON & BRANDY SUE (SURV)	3-B49-8
H2	STATE ROAD OF WEST VIRGINIA	3-B49-13
I2	RANCH SPORTSMANS CLUB INC	3-B49-12
J2	UNDERWOOD JAMES	3-B54-2
K2	FORSHEY PAUL	3-B54-19
L2	FORSHEY PAUL	3-B54-18
M2	COVEY CHRISTOPHER J	3-B54-17
N2	FORSHEY PAUL	3-B54-16
O2	FORSHEY PAUL	3-B54-15
P2	FREEMAN JOHN S & NENITA	3-L3-2.2
Q2	TUSTIN DANIEL P SR & VICKIE S	3-L3-2.3
R2	TUSTIN DANIEL P SR & VICKIE S	3-L3-3.1
S2	TUSTIN DANIEL P SR & VICKI L	3-L3-3
T2	COVEY CHRISTOPHER J	3-B54-8

06/14/2024

REVISIONS:	COMPANY:		 	
	OPERATOR'S	ROY RIGGLE OHI	DATE:	01-10-2024
	WELL #:	1H	API #	47-069-00362
	DISTRICT:	LIBERTY	COUNTY:	OHIO
		STATE:	WV	DRAWN BY: N. MANO
				SCALE: N/A
				DRAWING NO:
				WELL LOCATION PLAT 3

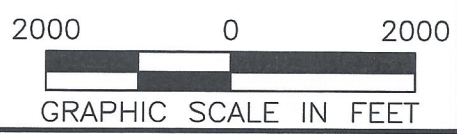
**JACKSON SURVEYING
INC.**
2413 EAST PIKE ST. # 112
Clarksburg, WV 26301
304-623-5851

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



SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.151601'
LONGITUDE: -80.523959'

BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.179152'
LONGITUDE: -80.541844'



NOTES ON SURVEY

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4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:

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

06/14/2024

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: ROY RIGGLE OHI	WELL # 1H	SERIAL #
ADDRESS: 1300 FORT PIERPONT, WV 26508	COUNTY - CODE OHIO - 069	DISTRICT; LIBERTY	
SURFACE OWNER: ROY & DEBRA R. RIGGLE	USGS 7 1/2 QUADRANGLE MAP NAME BETHANY, WV-PA API # 47-069-00362		