

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

APR 30 2024

API 47069003630000 County OHIO WV Department of Environmental Protection 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 401H
 Operator (as registered with the OOG) SWN Production Company LLC
 Address PO Box 12359 City Spring State TX
 Zip 77391-2359

As Drilled Location NAD83/UTM Attach an as-drilled plat, profile view, and deviation survey

Top Hole	Northing	<u>4,444,685.002</u>	Easting	<u>540,540.349</u>
Landing Point of Curve	Northing	<u>4,444,421.712</u>	Easting	<u>539,896.570</u>
Bottom Hole	Northing	<u>4,449,480.798</u>	Easting	<u>537,975.165</u>

Elevation (ft) 1252.0' GL Type of Well New Existing Type of Report Interim Final

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 Produce 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 2023-09-25 Date drilling commenced 2023-12-13 Date drilling ceased 2023-12-25

Date Completion activities began 2024-02-17 Date Completion activities ceased 2024-03-19

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

Reviewed by: [Signature]
APPROVED
Stat. Comm
5/28/2024

06/14/2024

APR 30 2024

API 47069003630000

Farm name ROY & DEBRA R. RIGGLE

Well number ROY RIGGLE OHI 401H

WV Department of
Environmental Protection

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/	30 BBLS
Coal	SEE SURFACE								
Intermediate 1	12.250	9.625	2055	NEW	36.00	J-55		Y/	38 BBLS
Intermediate 2									
Intermediate 3									
Production	8.500	5.500	25127	NEW	20.00	P-110 HP		Y/	60 BBLS
Tubing		2.875	7278	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	635	15.6	1.19	755.65	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	771	15.6	1.18	909.78	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	4805	14.5	1.29	6198.45	SURFACE	24
Tubing							

Drillers TD (ft) 25,146'

Loggers TD (ft) 25,146'

Deepest formation penetrated MARCELLUS

Plug back to (ft) 25,036'

Plug back procedure N/A

Kick off depth (f 6,245' 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: 590 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 _____

06/14/2024

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	02/17/2024
Job End Date:	03/07/2024
State:	West Virginia
County:	Ohio
API Number:	47-069-00363-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	ROY RIGGLE OHI 401H
Latitude:	40.151534
Longitude:	-80.52401
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6463
Total Base Water Volume (gal)*:	28452938
Total Base Non Water Volume:	109435



Water Source	Percent
Surface Water, < 1000TDS	87.00%
Produced Water	13.00%

RECEIVED
Office Of Oil and Gas
APR 30 2024
WV Department of
Environmental Protection

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	88.34481	
			Crystalline silica, quartz	14808-60-7	100.00000	11.54262	
			Hydrochloric acid	7647-01-0	15.00000	0.04045	
			Complex Amine Compound	proprietary	50.00000	0.03864	
			Hydrotreated light petroleum distillate	64742-47-8	25.00000	0.01932	
			Tetrakis (hydroxymethyl) phosphonium sulfate	55566-30-8	45.00000	0.00470	
			Surfactant	proprietary	5.00000	0.00386	
			Acetic anhydride	108-24-7	65.00000	0.00088	
			Methanol	67-56-1	60.00000	0.00080	
			Ethoxylated alcohols	proprietary	5.00000	0.00079	
			Quaternary Ammonium Compounds	68424-85-1	8.00000	0.00078	
			Alkoxylated polyhydric alcohol	proprietary	1.00000	0.00077	
			Polyethylenepoly-ethoxylated phosphonomethylated sodiumsalts	70900-16-2	20.00000	0.00054	
			Acetic acid	64-19-7	35.00000	0.00047	
			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)

RECEIVED
 Office Of Oil and Gas
 APR 30 2024
 WV Department of
 Environmental Protection

06/14/2024



47069003630000

Well Name: Roy Riggle OHI 401H

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	873.00	873.00	
Ravenclyff (ss)	1267.00	1263.00	1394.00	1387.00	
Maxton (ss)	1493.00	1483.00	1680.00	1662.00	
Big Injun (ss)	1839.00	1811.00	2062.00	2015.00	
Berea (siltstone)	2326.00	2252.00	2834.00	2711.00	
Rhinestreet (shale)	6302.00	5841.00	6600.00	6110.00	
Cashaqua (shale)	6600.00	6110.00	6668.00	6168.00	
Middlesex (shale)	6668.00	6168.00	6794.00	6264.00	
Tully (ls)	6794.00	6264.00	6843.00	6299.00	
Mahantango (shale)	6843.00	6299.00	7062.00	6413.00	
Marcellus (shale)	7062.00	6413.00	NA	NA	GAS

RECEIVED
Office Of Oil and Gas
APR 30 2024
WV Department of
Environmental Protection

06/14/2024

**ROY RIGGLE OHI 401H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	2/13/2024	25,036	24,941	36
2	2/17/2024	24,907	24,730	36
3	2/18/2024	24,697	24,520	36
4	2/18/2024	24,487	24,310	36
5	2/18/2024	24,277	24,100	36
6	2/19/2024	24,067	23,890	36
7	2/19/2024	23,857	23,680	36
8	2/19/2024	23,647	23,470	36
9	2/19/2024	23,437	23,260	36
10	2/19/2024	23,227	23,050	36
11	2/20/2024	23,017	22,840	36
12	2/20/2024	22,807	22,630	36
13	2/20/2024	22,597	22,420	36
14	2/20/2024	22,387	22,210	36
15	2/20/2024	22,177	22,000	36
16	2/21/2024	21,967	21,790	36
17	2/21/2024	21,757	21,580	36
18	2/21/2024	21,547	21,370	36
19	2/21/2024	21,337	21,160	36
20	2/21/2024	21,127	20,950	36
21	2/22/2024	20,917	20,740	36
22	2/22/2024	20,707	20,530	36
23	2/22/2024	20,497	20,320	36
24	2/23/2024	20,287	20,110	36
25	2/23/2024	20,077	19,900	36
26	2/23/2024	19,867	19,690	36
27	2/24/2024	19,657	19,480	36
28	2/24/2024	19,447	19,270	36
29	2/24/2024	19,237	19,060	36
30	2/24/2024	19,027	18,850	36
31	2/24/2024	18,817	18,640	36
32	2/25/2024	18,607	18,430	36
33	2/25/2024	18,397	18,220	36
34	2/25/2024	18,187	18,010	36
35	2/25/2024	17,977	17,800	36
36	2/25/2024	17,767	17,590	36
37	2/26/2024	17,557	17,380	36
38	2/26/2024	17,347	17,170	36
39	2/26/2024	17,137	16,960	36
40	2/26/2024	16,927	16,750	36
41	2/26/2024	16,717	16,540	36
42	2/27/2024	16,507	16,330	36

RECEIVED
Office Of Oil and Gas

APR 30 2024

WV Department of
Environmental Protection

**ROY RIGGLE OHI 401H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
43	2/27/2024	16,297	16,120	36
44	2/27/2024	16,087	15,910	36
45	2/27/2024	15,877	15,700	36
46	2/28/2024	15,667	15,490	36
47	2/28/2024	15,457	15,280	36
48	2/28/2024	15,247	15,070	36
49	2/29/2024	15,037	14,860	36
50	2/29/2024	14,827	14,650	36
51	2/29/2024	14,617	14,440	36
52	2/29/2024	14,407	14,230	36
53	3/1/2024	14,197	14,020	36
54	3/1/2024	13,987	13,810	36
55	3/1/2024	13,777	13,600	36
56	3/1/2024	13,567	13,390	36
57	3/1/2024	13,357	13,180	36
58	3/1/2024	13,147	12,970	36
59	3/2/2024	12,937	12,760	36
60	3/2/2024	12,727	12,550	36
61	3/2/2024	12,517	12,340	36
62	3/2/2024	12,307	12,130	36
63	3/2/2024	12,097	11,920	36
64	3/2/2024	11,887	11,710	36
65	3/2/2024	11,677	11,500	36
66	3/3/2024	11,467	11,290	30
67	3/3/2024	11,257	11,080	36
68	3/3/2024	11,047	10,870	36
69	3/3/2024	10,837	10,660	36
70	3/3/2024	10,627	10,450	36
71	3/4/2024	10,417	10,240	36
72	3/4/2024	10,207	10,030	36
73	3/4/2024	9,997	9,820	36
74	3/4/2024	9,787	9,610	36
75	3/5/2024	9,577	9,400	36
76	3/5/2024	9,367	9,190	36
77	3/5/2024	9,157	8,980	36
78	3/5/2024	8,947	8,770	36
79	3/5/2024	8,737	8,560	36
80	3/6/2024	8,527	8,350	36
81	3/6/2024	8,317	8,140	36
82	3/6/2024	8,107	7,930	36
83	3/6/2024	7,897	7,720	36
84	3/7/2024	7,687	7,510	36

RECEIVED
Office Of Oil and Gas

APR 30 2024

WV Department of
Environmental Protection

ROY RIGGLE OHI 401H
ATTACHMENT 1
PERF REPORT

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
85	3/7/2024	7,477	7,300	36

RECEIVED
Office Of Oil and Gas
APR 30 2024
WV Department of
Environmental Protection

APR 30 2024

ROY RIGGLE OHI 401H
ATTACHMENT 2
STIM REPORT

STAGE NUM	Stim Date	Ave Pump Rate (BPM)	Ave Treatment	Max Breakdown	ISIP (PSI)	Amount of Proppant (lbs)	WV Department of Environmental Protection water bbls	Amount of Nitrogen/other
1	2/17/2024	70.6	8,013	7,426	4,157	193,260	7,298	0
2	2/17/2024	83.9	8,406	5,192	4,852	366,000	9,964	0
3	2/18/2024	91.2	8,898	4,617	4,761	367,880	9,413	0
4	2/18/2024	91.8	8,709	2,912	4,728	372,360	9,849	0
5	2/18/2024	89	8,629	4,982	5,117	370,560	9,964	0
6	2/19/2024	86.6	8,551	2,974	4,862	368,240	9,922	0
7	2/19/2024	90.7	8,869	5,592	4,536	369,360	9,650	0
8	2/19/2024	91.9	9,168	3,696	5,364	367,320	9,125	0
9	2/19/2024	94.1	8,834	5,135	4,981	367,900	9,338	0
10	2/19/2024	93.7	9,084	4,628	4,862	369,060	9,399	0
11	2/20/2024	94.3	8,961	4,637	5,247	368,260	9,559	0
12	2/20/2024	92.4	8,725	3,758	4,862	367,460	9,102	0
13	2/20/2024	93.7	8,615	4,296	4,628	369,080	9,099	0
14	2/20/2024	94	8,937	5,635	4,823	367,420	8,668	0
15	2/20/2024	91	9,138	5,362	5,418	367,740	8,510	0
16	2/21/2024	88.9	8,784	5,126	4,516	368,260	8,635	0
17	2/21/2024	83.9	8,105	4,211	5,269	365,060	8,450	0
18	2/21/2024	91.9	9,182	3,114	4,753	369,180	8,474	0
19	2/21/2024	80.8	8,134	5,136	4,780	367,700	8,670	0
20	2/22/2024	76.7	7,935	6,246	5,063	369,380	8,620	0
21	2/22/2024	93	8,923	2,710	4,862	368,020	8,217	0
22	2/22/2024	80.9	8,101	5,027	5,615	366,040	8,275	0
23	2/22/2024	75.9	7,571	5,490	4,985	368,760	8,110	0
24	2/23/2024	93	8,387	3,428	5,317	369,160	8,275	0
25	2/23/2024	86	8,583	3,681	5,298	368,080	8,189	0
26	2/23/2024	93.9	9,140	5,487	5,355	366,140	8,405	0
27	2/24/2024	87.3	8,109	4,869	4,932	368,820	8,303	0
28	2/24/2024	87	8,194	4,529	5,302	365,820	8,102	0
29	2/24/2024	92	8,919	4,383	5,177	368,040	8,189	0
30	2/24/2024	92.2	8,927	5,106	5,318	367,520	8,243	0
31	2/24/2024	91.1	8,947	5,132	5,123	368,660	8,144	0
32	2/25/2024	85.7	8,522	5,894	5,042	365,660	8,028	0
33	2/25/2024	85.6	7,700	4,856	5,127	368,740	7,995	0
34	2/25/2024	80	7,742	4,042	5,317	370,220	7,943	0
35	2/25/2024	91.1	9,032	4,967	4,965	367,080	8,046	0
36	2/25/2024	93.8	8,842	5,112	5,723	368,140	8,069	0
37	2/26/2024	94.2	8,966	5,935	5,410	369,220	8,049	0
38	2/26/2024	98.3	8,400	5,754	4,591	368,640	7,930	0
39	2/26/2024	93.8	8,811	3,852	5,102	368,560	7,966	0
40	2/26/2024	96.2	8,421	4,447	4,933	367,120	8,502	0
41	2/26/2024	94.8	8,893	5,196	4,934	370,080	8,230	0
42	2/27/2024	87.9	8,209	5,241	5,546	366,520	7,730	0
43	2/27/2024	91	8,890	4,513	4,860	369,340	7,798	0
44	2/27/2024	72	7,862	4,165	5,186	366,240	7,859	0
45	2/28/2024	67.4	7,777	4,856	4,631	367,520	8,784	0
46	2/28/2024	95.7	8,384	5,180	4,658	367,320	7,835	0
47	2/28/2024	92.9	8,619	5,416	4,168	368,080	7,630	0
48	2/28/2024	94.3	8,595	5,658	4,234	368,920	7,716	0
49	2/29/2024	96.6	7,955	4,985	4,798	367,320	7,909	0
50	2/29/2024	97.1	8,214	5,818	4,689	368,640	7,705	0
51	2/29/2024	93	8,207	4,463	4,244	369,440	7,636	0
52	2/29/2024	86.7	8,207	5,510	4,601	367,580	7,441	0
53	3/1/2024	80.5	7,360	5,988	4,689	370,620	7,404	0

APR 30 2024

ROY RIGGLE OHI 401H
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
54	3/1/2024	84.7	7,345	4,760	4,625	368,540	7,497	0
55	3/1/2024	85.6	7,408	5,521	4,687	368,140	7,443	0
56	3/1/2024	91.2	7,799	5,715	4,152	368,480	7,495	0
57	3/1/2024	85.3	7,620	5,911	4,411	369,020	7,456	0
58	3/1/2024	80.2	7,181	4,457	4,255	367,380	7,458	0
59	3/2/2024	77.3	6,950	4,122	4,412	367,600	7,257	0
60	3/2/2024	80	7,966	4,354	4,750	368,540	7,637	0
61	3/2/2024	94.9	7,866	3,827	4,850	366,800	7,595	0
62	3/2/2024	91.9	7,664	4,755	1,650	366,720	7,571	0
63	3/2/2024	86.2	7,185	3,929	4,278	368,560	7,281	0
64	3/2/2024	85	7,161	5,499	4,571	365,620	7,304	0
65	3/2/2024	85.1	7,301	5,954	4,166	367,020	7,310	0
66	3/3/2024	80.9	6,796	4,724	4,100	368,300	7,315	0
67	3/3/2024	89.5	6,683	4,331	5,200	368,240	7,441	0
68	3/3/2024	89.6	7,183	5,875	4,750	367,040	7,392	0
69	3/3/2024	85	6,980	6,011	4,411	367,760	7,175	0
70	3/3/2024	85.3	6,893	4,773	4,051	368,120	7,223	0
71	3/4/2024	94.3	7,480	4,500	4,685	367,640	7,384	0
72	3/4/2024	97.1	7,061	4,528	4,798	372,960	7,340	0
73	3/4/2024	90.5	7,084	4,375	4,586	369,320	7,203	0
74	3/5/2024	88	7,335	5,406	4,410	369,480	7,240	0
75	3/5/2024	97.1	7,563	6,785	4,687	367,740	7,187	0
76	3/5/2024	97.1	7,298	4,597	4,675	368,600	7,310	0
77	3/5/2024	84.9	6,661	4,478	4,630	367,900	7,063	0
78	3/5/2024	84.8	6,778	4,165	4,431	368,580	6,892	0
79	3/6/2024	87	6,990	3,867	4,607	369,760	7,071	0
80	3/6/2024	86.7	6,476	4,994	4,898	364,020	7,045	0
81	3/6/2024	89.3	6,826	5,094	5,120	368,440	7,069	0
82	3/6/2024	88.3	6,807	5,596	4,755	366,960	7,097	0
83	3/6/2024	87.8	7,176	4,165	4,788	365,200	6,828	0
84	3/7/2024	86.2	6,769	4,547	4,689	368,640	7,006	0
85	3/7/2024	97.1	6,808	4,341	4,798	365,640	7,438	0

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

RECEIVED
Office Of Oil and Gas

APR 30 2024

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 6,179 TVD feet
Perforation Interval 7,300-25,036 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 4/20/2024	Time 9:00 AM	End of Test Date 4/21/2024	Time 9:00 AM	Duration of Test 24 Hours
Tubing Pressure 1152	Casing Pressure 2075	Separator Pressure 310	Separator Temperature 115	
Oil Production During Test 1633	Gas Production During Test 14054	Water Production During Test 1047		
BBLs	MCF	BBLs	105,000 PPM Chlorides	-Salinity
Oil Gravity 60	API	Producing Method (flowing, pumping, gas lift etc.) Free Flowing Up Tubing		

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 3"	Pipe Diameter (inside) 3"	Nominal Choke Size inches 128/64
Differential Pressure range 250-300	Max. Static pressure range 425	Prover and Orifice diameter - inches 3"
Differential 265	Static 310	
Gas Gravity (Air = 1.0) Measured 0.75	Flowing Temperature 115	Gas Temperature 115
Estimated	24 Hour coefficient pressure PSIA 14.65	
24 Hour Coefficient 1		

TEST RESULTS

Daily Oil 1633	Daily Water 1047	Daily Gas 14054	Gas-Oil Ratio 8.6
--------------------------	----------------------------	---------------------------	-----------------------------

Denise Grantham

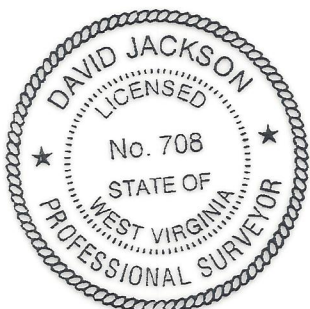
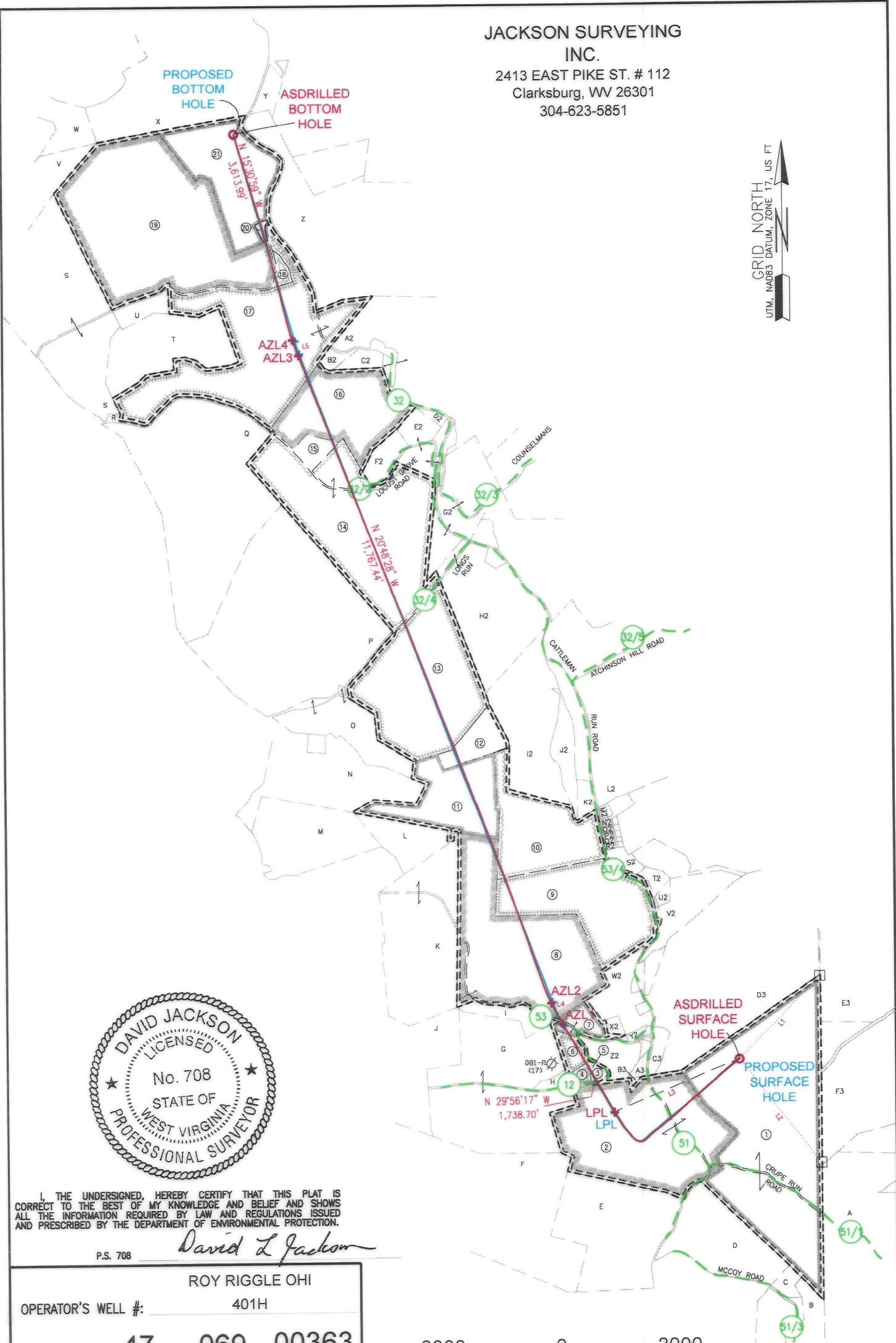
Well Operator
BY DENISE GRANTHAM

ITS: DESIGNATED REPRESENTATIVE

JACKSON SURVEYING

INC.

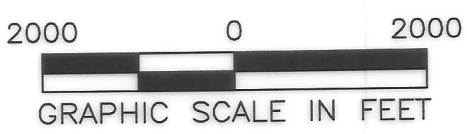
2413 EAST PIKE ST. # 112
 Clarksburg, WV 26301
 304-623-5851



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*

OPERATOR'S WELL #:	ROY RIGGLE OHI		
API WELL #:	47	069	00363
	STATE	COUNTY	PERMIT



06/14/2024

COMPANY: **SWN** Production Company, LLC

LEGEND:	— SURVEYED BOUNDARY
○ 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	

REVISIONS:	DATE: 01-10-2024
	DRAWN BY: J COCKERHAM
	SCALE: 1" = 2000'
	DRAWING NO:
	WELL LOCATION PLAT 2

**JACKSON SURVEYING
INC.**

2413 EAST PIKE ST. # 112
Clarksburg, WV
26301304-623-5851

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	KELLY LYNN A (S)	3-L6-12
4	MONTGOMERY PATRICK J & MONTGOMERY BRENDA LEE (S)	3-L6-11.1
5	CONNER RONALD LEROY (S)	3-L6-11
6	GEAR LURA MARIE (S)	3-L6-9.1
7	ATKINSON GREGORY D; ET AL C/O JENNIFER TUCKER (S)	3-L6-10.2
8	ATKINSON GREGORY D; ET AL C/O JENNIFER TUCKER (S)	3-L6-10
9	STATE OF WV CONSERVATION COMM (S)	3-L3-1.1
10	STATE OF WV CONSERVATION COMM DIV OF NAT RES PUB LAND CORP (S)	3-L3-1
11	GRIMES MICHAEL J (S)	3-L2-10.1
12	GRIMES DONALD; ANTHONY HOUSTON (SURV) (S)	3-B48-39
13	WALDEN WILLIAM K & ANDREA (S)	3-B48-38
14	WALDEN WILLIAM K & FLORENCE ANDREA (SURV) (S)	3-B48-27
15	LYCANS AUDIE (S)	3-B48-26
16	CAMMARATA NICHOLAS J & JENNIFER C (SURV) (S)	3-B48-25
17	CHAMBERS CHARLOTTE A (S)	3-B48-24
18	AYERS ALBERT GLENN & REBECCA ANN (SURV) (S)	3-B43-61
19	JONES SAMUEL E & JUDITH F IRREVOCABLE TRUST (S)	3-B43-60
20	PUSKARICH TRACY T (S)	3-B43-59
21	FONNER MARY LOU (S)	3-B43-58

ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
A	KEENER PRIMARY RES PROTECTOR TRUST JANET F KEENER TRUSTEE	230-15-5	C2	JONES CHARLES H	3-B48-31
B	WILHELM MICHAEL & JULIA E	3-L6-20	D2	TABLE ROCK REALTY LLC	3-B48-30
C	WILHELM JASON MICHAEL & CRYSTAL LOUISE	3-L6-20.6	E2	WOOD RICHARD A & MELANIE	3-B48-29
D	RODGERS LEWIS IRWIN	3-L6-16	F2	WOOD RICHARD A JR & MELANIE (VOYTEK) (SURV)	3-B48-28
E	RODGERS LEWIS I	3-L6-15	G2	MCNICHOLAS JOHN WALTER III	3-B48-36
F	TOMINACK JOHN I JR	3-L5-10	H2	WALDEN DANIEL E & MARY VIRGNIA	3-B48-37
G	KESTNER GARY & TERRY	3-L5-9	I2	WEST VIRGINIA STATE OF - DIVISION OF NATURAL RESOURCES	3-B49-15
H	COWAN CHERYL ANN	3-L6-21	J2	STATE ROAD OF WEST VIRGINIA	3-B49-14
I	ATKINSON GREGORY D; ET AL C/O JENNIFER TUCKER	3-L6-10.1	K2	STATE ROAD OF WEST VIRGINIA	3-B54-1
J	ENNIS MARJORIE G	3-L5-8	L2	RANCH SPORTSMANS CLUB INC	3-B49-12
K	FISH HARRY ALAN FISH R H & P C (RES'V LF EST)	3-L2-13	M2	UNDERWOOD JAMES	3-B54-2
L	FISH HARRY ALAN FISH R H & P C RES'V L/E	3-L2-13.1	N2	FORSHEY PAUL	3-B54-19
M	BREITINGER MICHAEL	3-L2-11	O2	FORSHEY PAUL	3-B54-18
N	OHARA MATTHEW JAMES; OHARA DEIRDRA (LIFE ESTATE)	3-L2-10.2	P2	COVEY CHRISTOPHER J	3-B54-17
O	GRIMES DONALD; ANTHONY HOUSTON (SURV)	3-B48-40	Q2	FORSHEY PAUL	3-B54-16
P	STONE MARION PYLE	3-B48-41	R2	FORSHEY PAUL	3-B54-15
Q	SONDA SCOTT & MARK	3-B48-20	S2	FREEMAN JOHN S & NENITA	3-L3-2.2
R	WINDSOR POWER HOUSE COAL CO	3-B48-21	T2	TUSTIN DANIEL P SR & VICKIE S	3-L3-2.3
S	NORDEN ANNA MAE (TOD) NORDEN - SMITH KATHERINE ETAL	3-B48-22	U2	TUSTIN DANIEL P SR & VICKIE S	3-L3-3.1
T	CHAMBERS HARRY L & BEVERLY R (SURV)	3-B48-24.1	V2	TUSTIN DANIEL P SR & VICKI L	3-L3-3
U	CHAMBERS CHARLOTTE A	3-B48-23	W2	PARRISH EDGAR	3-L6-2.2
V	CORWIN BRIAN DAVID	3-B43-22	X2	ATKINSON GREGORY D; ET AL C/O JENNIFER TUCKER	3-L6-10.3
W	BETHANY COLLEGE	3-B38-31	Y2	SCHLOSSER RONALD E JR	3-L6-6
X	PRESLIE ROWAN LLC	3-B43-33	Z2	GEAR ROBERT L & TAMMY Y	3-L6-9
Y	PRESLIE ROWAN LLC	3-B43-49.3	A3	STRAUSS JOYCE ANN	3-L6-8
Z	WV ST OF DEPT OF COMM DIV OF NAT RE WILDLIFE RES SEC	3-B43-62	B3	ELLIS JOYCE A	3-L6-13.1
A2	HOGAN ANDREW P	3-B48-34	C3	KNICELY AMANDA	3-L6-5
B2	SMITH KAREN K	3-B48-32	D3	RYAN TIMOTHY ALAN	3-L6-4
			E3	ROBERT E JONES TR	230-16-1
			F3	RIGGLE DEBRA R & ROY	230-16-3

06/14/2024

REVISIONS:	COMPANY:		
	OPERATOR'S	ROY RIGGLE OHI	DATE: 01-10-2024
	WELL #:	401H	DRAWN BY: J COCKERHAM
	DISTRICT:	LIBERTY	SCALE: N/A
	COUNTY:	OHIO	DRAWING NO:
	STATE:	WV	WELL LOCATION PLAT 3

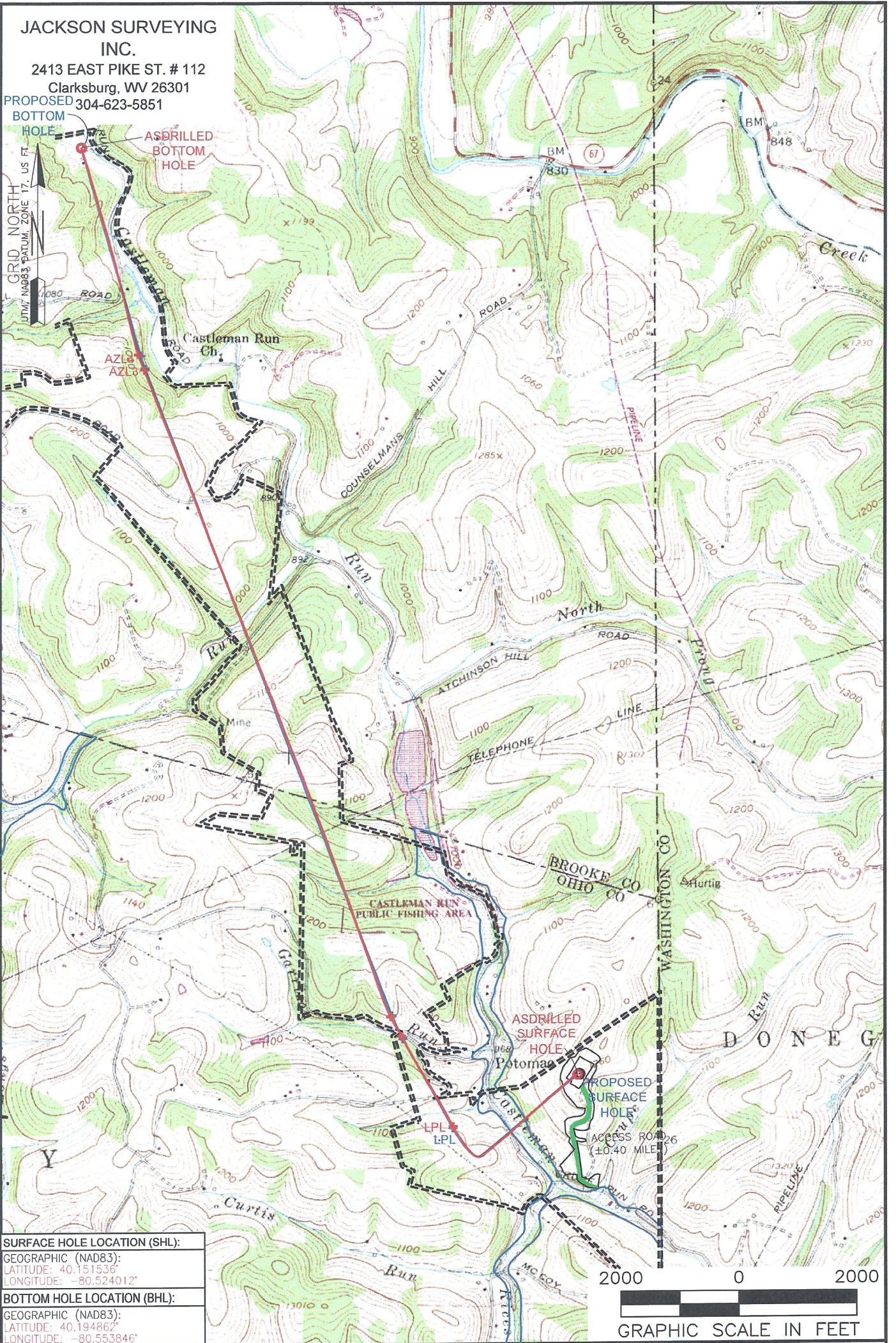
**JACKSON SURVEYING
INC.**

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

PROPOSED
BOTTOM
HOLE

ASDRILLED
BOTTOM
HOLE

GRID NORTH
UTM NAD83 DATUM, ZONE 17, US FT



SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.151536°
LONGITUDE: -80.524012°

BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.194862°
LONGITUDE: -80.553846°

GRAPHIC SCALE IN FEET

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* 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
ADDRESS:
1300 FORT PIERPONT, WV 26508
SURFACE OWNER:
ROY & DEBRA R. RIGGLE

WELL (FARM) NAME:
ROY RIGGLE OHI
COUNTY - CODE:
OHIO - 069
DISTRICT:
LIBERTY
USGS 7 1/2 QUADRANGLE MAP NAME:
BETHANY, WV-PA
API # 47-069-00363

WELL # 401H
SERIAL #