

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

API 47-069-00334 County OHIO District RICHLAND
Quad WHEELING 7.5', WV Pad Name SHANNON FIELDS-OHI-PAD1 Field/Pool Name PANHANDLE FIELD WET
Farm name SWN PRODUCTION COMPANY, LLC Well Number SHANNON FIELDS OHI 210H
Operator (as registered with the OOG) SWN PRODUCTION COMPANY, LLC
Address PO BOX 12359 City SPRING State TX Zip 77391-2359

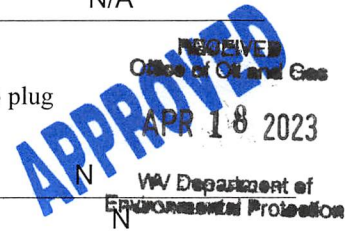
As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,437,624.262 Easting 529,174.040
Landing Point of Curve Northing 4,437,407.116 Easting 528,770.941
Bottom Hole Northing 4,433,510.188 Easting 530,515.961

Elevation (ft) 1,235.8' 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 3/21/2022 Date drilling commenced 10/1/2022 Date drilling ceased 10/22/2022
Date completion activities began 12/16/2022 Date completion activities ceased 1/30/2023
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 352' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 602' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 504' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N



Reviewed by: [Signature]
5/09/23
09/15/2023

API 47-069 - 00334 Farm name SWN PRODUCTION COMPANY, LLC Well number SHANNON FIELDS OHI 210H

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	136'	NEW	J-55/94#		Y
Surface	17.5	13.375	555'	NEW	J-55/54.5#	467.8' / 436.5'	Y; 30 BBLS
Coal	SEE INTERMEDIATE						
Intermediate 1	12.25	9.625	1,900'	NEW	J-55/36#		Y; 44 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75	5.5	20,859'	NEW	P-110 HP/24#		Y; 15 BBLS
Tubing		2.875	6,710'	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	694	15.60	1.19	825.86	SURFACE	8
Coal	SEE INTERMEDIATE						
Intermediate 1	CLASS A	748	15.60	1.19	890.12	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3,783	14.50	1.29	4,880.07	3,150'	24
Tubing							

Drillers TD (ft) 20,859' Loggers TD (ft) 20,859'
 Deepest formation penetrated MARCELLUS Plug back to (ft) 20,768'
 Plug back procedure N/A

Kick off depth (ft) 5,560' MD

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: 6 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 INTERMEDIATE: 25 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 PRODUCTION: 427 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 _____

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SHANNON FIELDS OHI 210H

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	12/16/2022	84.4	8,842	6,790	3,600	199,780	6,376	0
2	12/17/2022	93.1	9,039	4,929	4,062	364,060	8,825	0
3	12/17/2022	98	8,571	4,346	4,458	368,260	8,736	0
4	12/17/2022	93.8	8,683	4,373	4,152	366,660	8,666	0
5	12/18/2022	95.2	8,763	4,089	4,320	368,300	8,765	0
6	12/18/2022	98.1	8,874	5,005	4,458	371,640	8,922	0
7	12/18/2022	93.1	8,833	5,230	4,420	367,540	8,330	0
8	12/19/2022	93.5	8,667	5,518	4,156	365,840	8,171	0
9	12/19/2022	97.2	8,972	5,283	4,585	367,740	8,484	0
10	12/19/2022	98	9,217	5,173	4,352	366,980	8,587	0
11	12/20/2022	95.2	9,047	5,125	4,560	366,200	8,818	0
12	12/20/2022	97.9	9,012	5,029	4,752	363,140	8,472	0
13	12/20/2022	96.9	9,056	5,556	4,421	364,980	8,600	0
14	12/20/2022	94.8	9,103	4,146	4,491	365,080	8,224	0
15	12/20/2022	94.4	8,843	4,938	4,430	368,100	8,198	0
16	12/21/2022	93.8	8,921	5,508	4,696	366,320	8,049	0
17	12/21/2022	98.3	8,991	5,998	4,623	362,260	7,881	0
18	12/22/2022	92.8	8,841	6,098	4,492	367,740	8,200	0
19	12/22/2022	92.9	8,830	6,296	4,623	367,600	8,070	0
20	12/22/2022	63.6	5,821	6,346	4,718	369,660	14,498	0
21	12/29/2022	98.4	8,415	5,578	4,985	365,180	8,058	0
22	12/29/2022	95.1	8,086	6,138	4,786	368,060	8,158	0
23	12/29/2022	98.6	8,863	6,186	4,811	363,620	7,931	0
24	12/30/2022	98.9	8,711	6,211	4,689	366,600	7,898	0
25	12/30/2022	94.9	8,750	6,640	4,537	374,140	8,241	0
26	12/30/2022	94.6	8,808	6,444	4,598	367,680	8,167	0
27	12/30/2022	98.9	8,371	5,498	4,821	366,880	7,931	0
28	12/31/2022	96.3	8,247	6,321	5,102	366,280	7,928	0
29	12/31/2022	90.2	7,564	5,987	4,847	365,380	8,199	0
30	1/1/2023	97.6	8,086	5,736	4,547	366,900	8,090	0
31	1/1/2023	95.3	7,956	6,246	4,861	368,520	8,343	0
32	1/1/2023	93.7	8,262	6,709	4,765	368,140	8,290	0
33	1/2/2023	95.3	8,433	6,710	4,471	366,760	8,043	0
34	1/2/2023	97.7	8,067	6,251	4,621	368,760	7,845	0
35	1/3/2023	98.8	8,029	6,248	5,124	364,760	7,866	0
36	1/3/2023	87.9	6,989	6,230	4,521	368,780	8,886	0
37	1/3/2023	96	7,934	5,903	4,247	364,200	7,748	0
38	1/3/2023	98	7,930	6,292	4,456	364,880	7,749	0
39	1/4/2023	95.6	7,508	6,030	4,340	366,680	7,945	0
40	1/4/2023	95.5	7,764	6,186	4,565	368,280	7,729	0
41	1/4/2023	99.6	7,989	6,220	4,359	366,840	7,807	0
42	1/4/2023	98.8	7,663	5,411	4,452	369,060	7,648	0
43	1/4/2023	97.2	7,374	4,200	4,210	367,340	7,869	0
44	1/5/2023	99.2	7,611	5,758	4,428	363,780	7,252	0
45	1/5/2023	95.8	7,524	4,561	4,326	363,820	7,638	0
46	1/5/2023	96.3	7,768	5,556	3,920	365,580	7,665	0
47	1/5/2023	98	7,726	5,910	4,852	378,940	7,754	0
48	1/6/2023	98	7,438	5,550	4,225	370,700	7,839	0
49	1/6/2023	96.8	7,258	6,075	4,201	363,020	7,928	0
50	1/6/2023	98	7,349	4,652	4,422	367,400	7,858	0
51	1/7/2023	98.7	7,644	5,409	4,301	363,080	7,084	0
52	1/7/2023	95.9	7,354	6,320	4,312	366,000	7,625	0
53	1/7/2023	97	7,352	6,153	4,457	367,560	7,714	0

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SHANNON FIELDS OHI 210H
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	1/8/2023	98.8	7,591	5,297	4,458	367,820	7,460	0
55	1/8/2023	96.6	7,444	5,989	4,254	366,980	7,824	0
56	1/8/2023	96.4	7,348	6,156	4,390	368,000	7,598	0
57	1/8/2023	97.6	7,065	4,620	4,362	366,960	7,186	0
58	1/9/2023	97	7,170	5,308	4,508	368,180	8,002	0
59	1/9/2023	96	6,918	5,974	4,250	363,660	7,544	0
60	1/9/2023	97.5	7,430	5,269	4,352	365,180	7,455	0
61	1/10/2023	97.8	7,160	4,452	4,589	365,940	7,650	0
62	1/10/2023	96.8	6,430	5,501	4,520	366,380	7,461	0
63	1/10/2023	97.8	6,677	4,852	4,253	363,140	7,576	0
64	1/10/2023	97.6	6,891	5,320	4,598	371,260	7,810	0
65	1/11/2023	97.4	6,544	5,130	4,525	360,980	7,483	0
66	1/11/2023	96.8	6,497	5,525	4,002	365,560	7,432	0
67	1/11/2023	95.8	6,346	5,046	4,785	365,960	7,221	0

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**SHANNON FIELDS OHI 210H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	12/7/2022	20,768	20,676	36
2	12/17/2022	20,642	20,464	36
3	12/17/2022	20,431	20,253	36
4	12/17/2022	20,220	20,042	36
5	12/17/2022	20,009	19,831	36
6	12/18/2022	19,798	19,620	36
7	12/18/2022	19,587	19,409	36
8	12/18/2022	19,376	19,198	36
9	12/19/2022	19,165	18,987	36
10	12/19/2022	18,954	18,776	36
11	12/20/2022	18,743	18,565	36
12	12/20/2022	18,532	18,354	36
13	12/20/2022	18,321	18,143	36
14	12/20/2022	18,110	17,932	36
15	12/20/2022	17,899	17,721	36
16	12/21/2022	17,688	17,510	36
17	12/21/2022	17,477	17,299	36
18	12/22/2022	17,266	17,088	36
19	12/22/2022	17,054	16,877	36
20	12/22/2022	16,843	16,666	36
21	12/26/2022	16,632	16,455	36
22	12/29/2022	16,421	16,244	36
23	12/29/2022	16,210	16,033	36
24	12/29/2022	15,999	15,821	36
25	12/30/2022	15,788	15,610	36
26	12/30/2022	15,577	15,399	36
27	12/30/2022	15,366	15,188	36
28	12/31/2022	15,155	14,977	36
29	12/31/2022	14,944	14,766	36
30	12/31/2022	14,733	14,555	36
31	1/1/2023	14,522	14,344	36
32	1/1/2023	14,311	14,133	36
33	1/2/2023	14,100	13,922	36
34	1/2/2023	13,889	13,711	36
35	1/2/2023	13,678	13,500	36
36	1/3/2023	13,467	13,289	36
37	1/3/2023	13,256	13,078	36
38	1/3/2023	13,045	12,867	36
39	1/4/2023	12,834	12,656	36
40	1/4/2023	12,623	12,445	36
41	1/4/2023	12,412	12,234	36
42	1/4/2023	12,201	12,023	36
43	1/4/2023	11,990	11,812	36

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Environmental Protection

**SHANNON FIELDS OHI 210H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
44	1/5/2023	11,779	11,601	36
45	1/5/2023	11,568	11,390	36
46	1/5/2023	11,357	11,179	36
47	1/5/2023	11,146	10,968	36
48	1/6/2023	10,935	10,757	36
49	1/6/2023	10,724	10,546	36
50	1/6/2023	10,513	10,335	36
51	1/6/2023	10,302	10,124	36
52	1/7/2023	10,090	9,913	36
53	1/7/2023	9,879	9,702	36
54	1/7/2023	9,668	9,491	36
55	1/8/2023	9,457	9,280	36
56	1/8/2023	9,246	9,069	36
57	1/8/2023	9,035	8,857	36
58	1/8/2023	8,824	8,646	36
59	1/9/2023	8,613	8,435	36
60	1/9/2023	8,402	8,224	36
61	1/9/2023	8,191	8,013	36
62	1/10/2023	7,980	7,802	36
63	1/10/2023	7,769	7,591	36
64	1/10/2023	7,558	7,380	36
65	1/11/2023	7,347	7,169	36
66	1/11/2023	7,136	6,958	36
67	1/11/2023	6,925	6,747	36

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/16/2022
Job End Date:	1/11/2023
State:	West Virginia
County:	Ohio
API Number:	47-069-00334-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	SHANNON FIELDS OHI 210
Latitude:	40.08839394
Longitude:	-80.65778099
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,206
Total Base Water Volume (gal):	22,582,400
Total Base Non Water Volume:	0



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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					
			Water	7732-18-5	100.00000	88.18598	Density = 8.345
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	85.00000	0.30071	

			Water	7732-18-5	100.00000	0.30071	
			Water	7732-18-5	45.00000	0.30071	
Plexaid 655WG	SWN Well Services	Scale Inhibitor					
				Listed Below			
Ferriplex 80	SWN Well Services	Iron Control					
				Listed Below			
PLEXSLICK 930	SWN Well Services	Friction Reducer					
				Listed Below			
FSTI-CI-02	SWN Well Services	Corrosion Inhibitor					
				Listed Below			
HCL	SWN Well Services	Solvent					
				Listed Below			
Sand	SWN Well Services	Proppant					
				Listed Below			
Tolicide 4Frac	SWN Well Services	Biocide					
				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	11.42158	
			Hydrochloric Acid	7647-01-0	15.00000	0.04275	

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			Tetrakis(Hydroxymethyl) Phosphonium Sulfate	55566-30-8	45.00000	0.00466	
			Sodium Erythorbate	6381-77-7	100.00000	0.00152	
			Quaternary ammonium compounds	68424-85-1	7.50000	0.00078	
			Ethanol	64-17-5	2.50000	0.00026	
			Ethylene glycol	107-21-1	40.00000	0.00017	
			Cinnamaldehyde	104-55-2	10.00000	0.00004	
			N,N-Dimethylformamide	68-12-2	10.00000	0.00004	
			Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)- .omega.-hydroxy-	9016-45-9	10.00000	0.00004	
			benzyl chloridequaternized	72480-70-7	5.00000	0.00002	
			Isopropyl alcohol	67-63-0	5.00000	0.00002	
			1-Octanol	111-87-5	5.00000	0.00002	
			2-Butoxyethanol	111-76-2	5.00000	0.00002	
			Triethyl phosphate	78-40-0	5.00000	0.00002	
			1-Decanol	112-30-1	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%

*** 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)

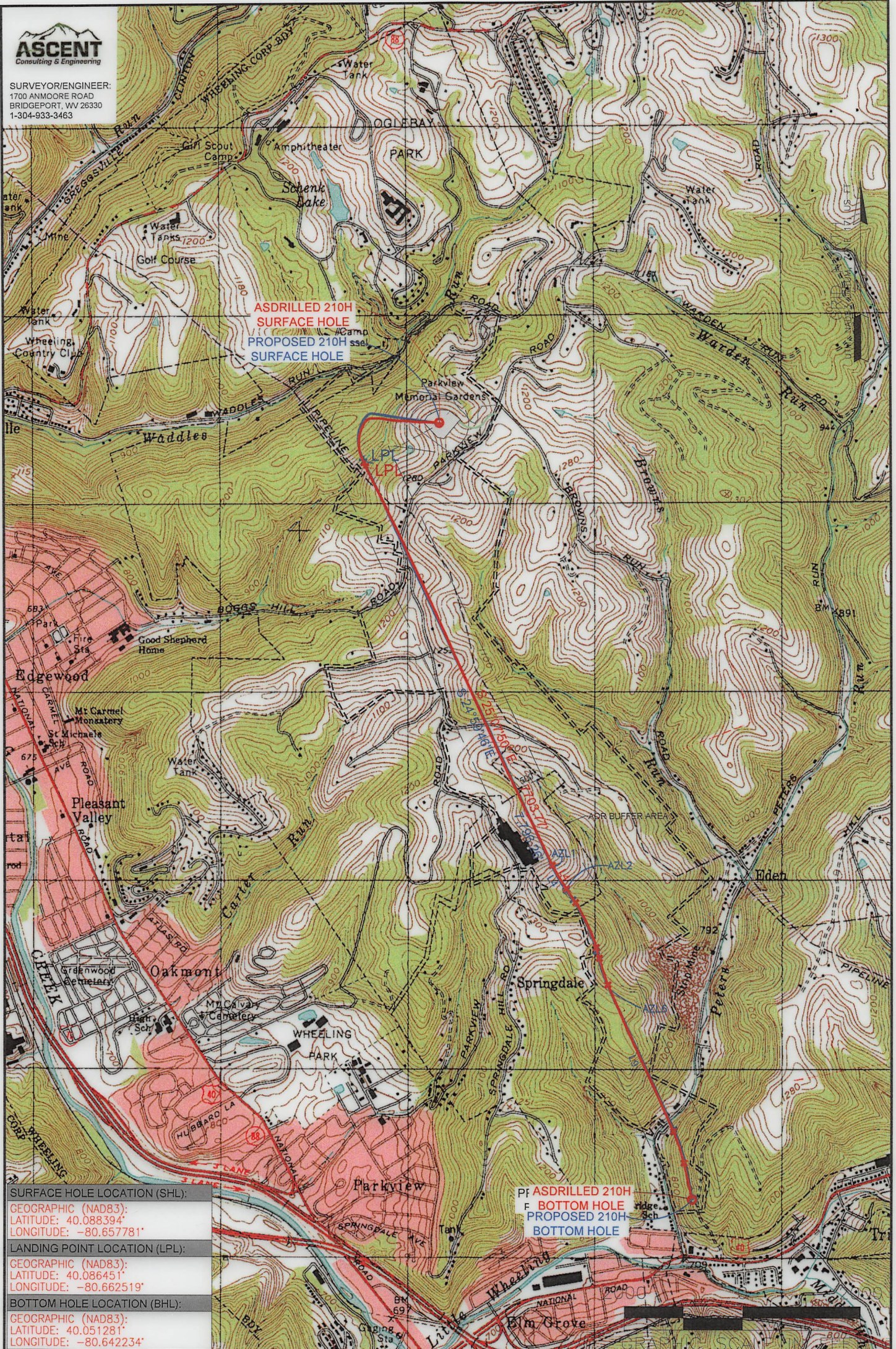
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Environmental Protection



SURVEYOR/ENGINEER:
1700 ANMOORE ROAD
BRIDGEPORT, WV 26330
1-304-933-3463



ASDRILLED 210H
SURFACE HOLE
PROPOSED 210H
SURFACE HOLE

Pf ASDRILLED 210H
F BOTTOM HOLE
PROPOSED 210H
BOTTOM HOLE

SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.088394°
LONGITUDE: -80.657781°

LANDING POINT LOCATION (LPL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.086451°
LONGITUDE: -80.662519°

BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.051281°
LONGITUDE: -80.642234°

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
- Ⓜ EXISTING WATER WELL
- Ⓢ EXISTING SPRING

- 09/15/2023
 - DRILLING UNIT
 - LEASE BOUNDARY
 - ASDRILLED PATH
 - PROPOSED PATH
 - DHP BUFFER
- 400' 1,500' 3,000'

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: SHANNON FIELDS OHI	WELL # 210H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201	COUNTY - CODE OHIO - 35	DISTRICT; RICHLAND	
SURFACE OWNER: SHANNON FIELDS, LLC	USGS 7 1/2 QUADRANGLE MAP NAME WHEELING, WV		

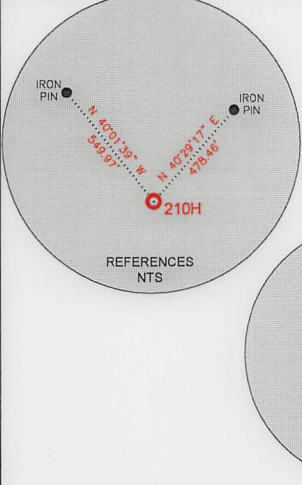
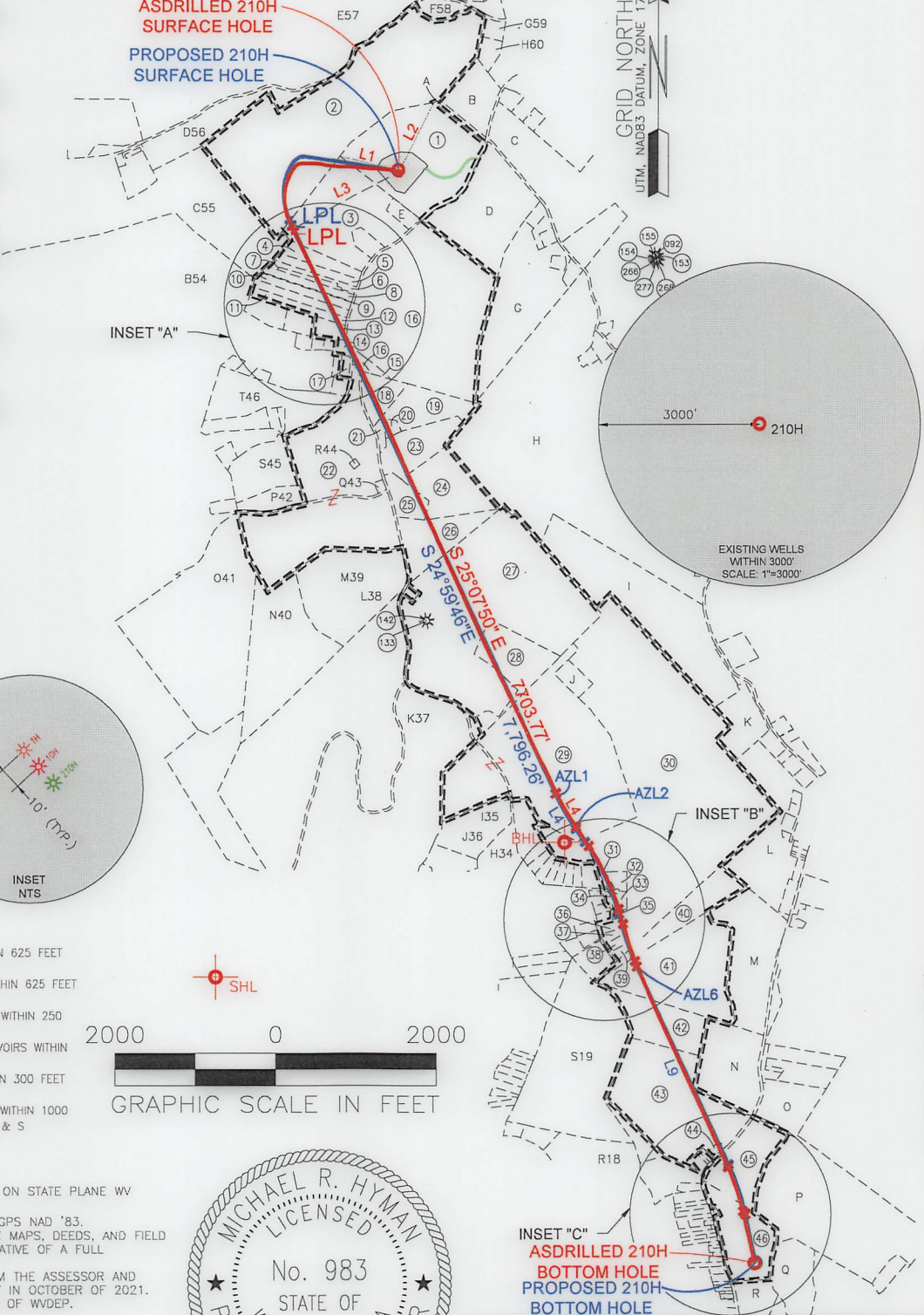


SURVEYOR/ENGINEER:
1700 ANMOORE ROAD
BRIDGEPORT, WV 26330
1-304-933-3463

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 76°23'22" W	761.25'	SHL TO LANDMARK	STONE FOUND
L2	N 26°42'58" E	958.48'	SHL TO LANDMARK	CONCRETE MONUMENT

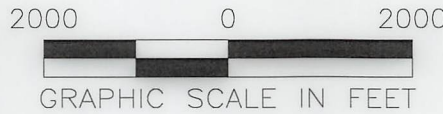
LATITUDE: 40°07'30" SURFACE HOLE 9,169' BOTTOM HOLE 4,823'

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,437,624.262 EASTING: 529,174.040
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,437,407.116 EASTING: 528,770.941
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,510.188 EASTING: 530,515.961
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,437,623.793 EASTING: 529,174.074
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,437,432.881 EASTING: 528,761.965
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,511.331 EASTING: 530,519.104



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.
- 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

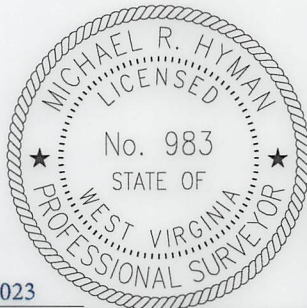
- TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE WV NORTH ZONE NAD '83.
- WELL LAT./LONG ESTABLISHED BY DIRECT GPS NAD '83.
- BOUNDARIES SHOWN ARE TAKEN FROM TAX MAPS, DEEDS, AND FIELD SURVEY. THIS DRAWING IS NOT REPRESENTATIVE OF A FULL BOUNDARY SURVEY.
- SURFACE OWNER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF OHIO COUNTY IN OCTOBER OF 2021.
- WELLS SHOWN ARE TAKEN FROM RECORDS OF WDPEP.

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 STATE OF WEST VIRGINIA.

P.S. 983

Michael R. Hyman

04/12/2023



COMPANY:



(+) = T- -TI - 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)

SHANNON FIELDS OHI
OPERATOR'S WELL #: 210H
API WELL #: 47 069 00334
STATE COUNTY PERMIT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1235.8
DISTRICT: RICHLAND COUNTY: OHIO QUADRANGLE: WHEELING 7.5', WV
SURFACE OWNER: SHANNON FIELDS, LLC ACREAGE: ±35.07
OIL & GAS ROYALTY OWNER: SHANNON FIELDS, LLC ACREAGE: ±35.07

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: 6,091.15/2023 MDM

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

LEGEND:

	PROPOSED SURFACE HOLE / BOTTOM HOLE		SURVEYED BOUNDARY
	EXISTING / PRODUCING WELLHEAD		DRILLING UNIT
	LANDING POINT LOCATION		LEASE BOUNDARY
	EXISTING WATER WELL		ASDRILLED PATH
	EXISTING SPRING		PROPOSED PATH
			DHP BUFFER

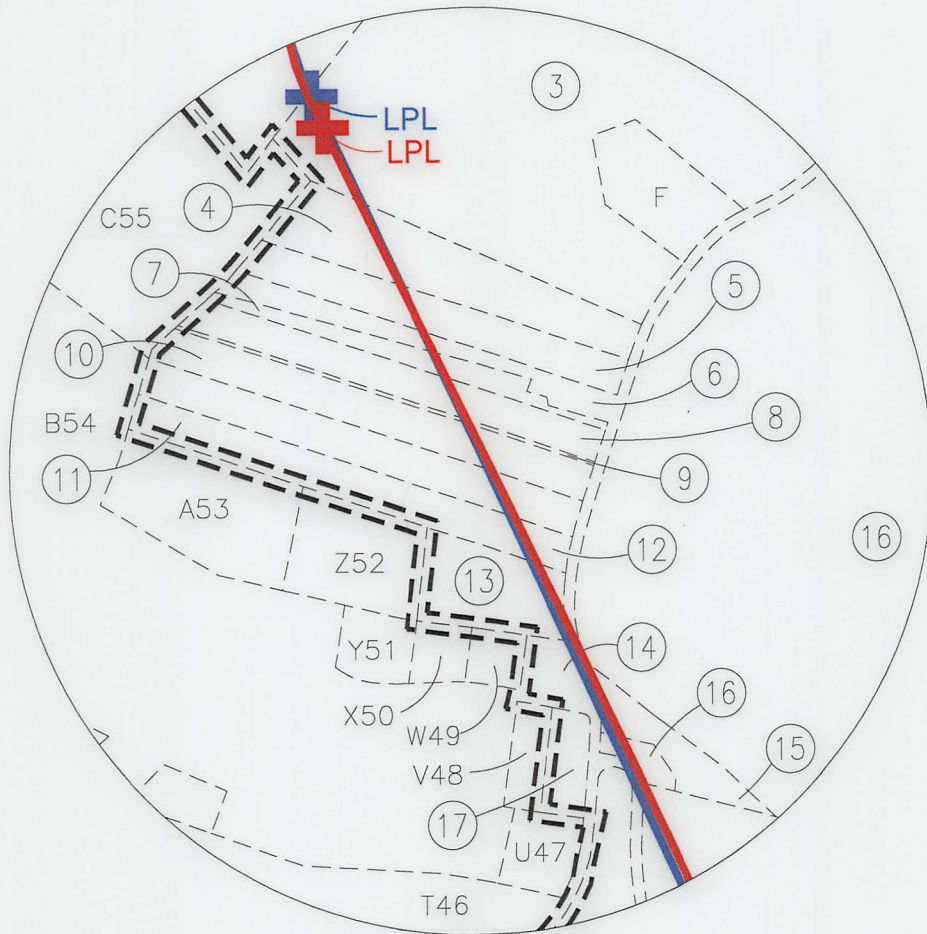
400' 1,500' 3,000'

REVISIONS:	DATE: 04/12/2023
	DRAWN BY: TMF
	SCALE: 1" = 2000'
	DRAWING NO: ACE-2326
	WELL LOCATION PLAT

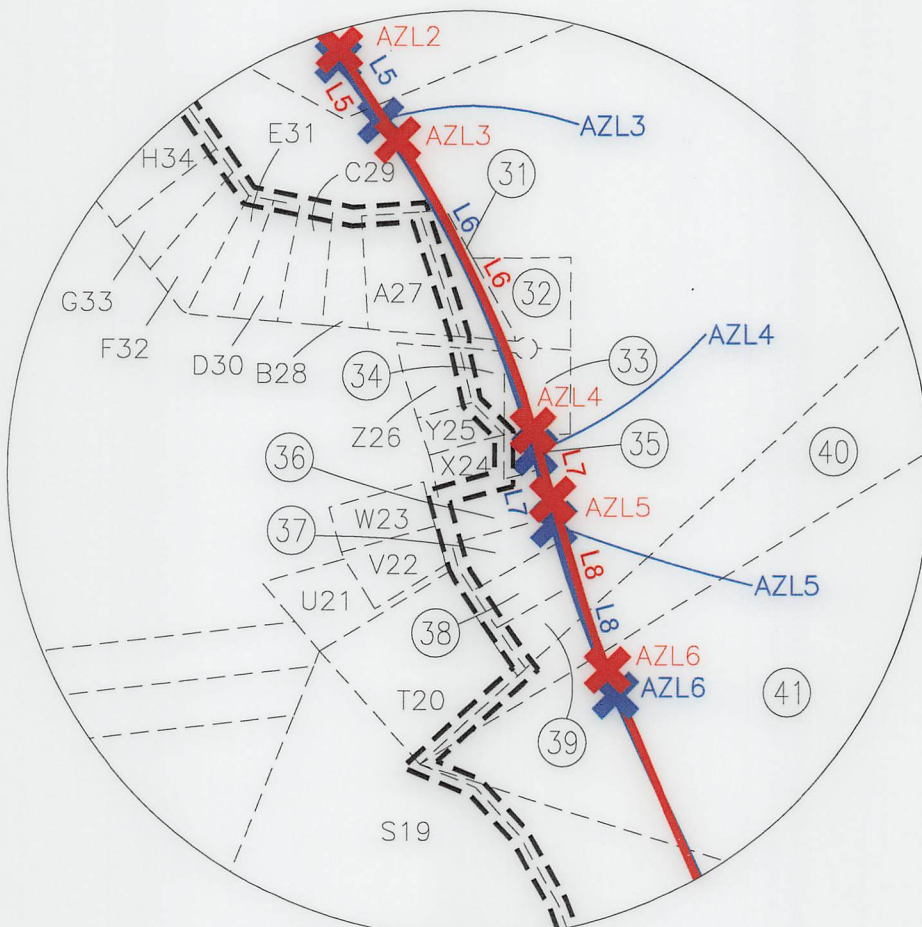
LONGITUDE: 80°37'30" SURFACE HOLE 13,334' BOTTOM HOLE 11,675'



SURVEYOR/ENGINEER:
1700 ANMOORE ROAD
BRIDGEPORT, WV 26330
1-304-933-3463



BLOW UP INSET A
SCALE: 1"=500'



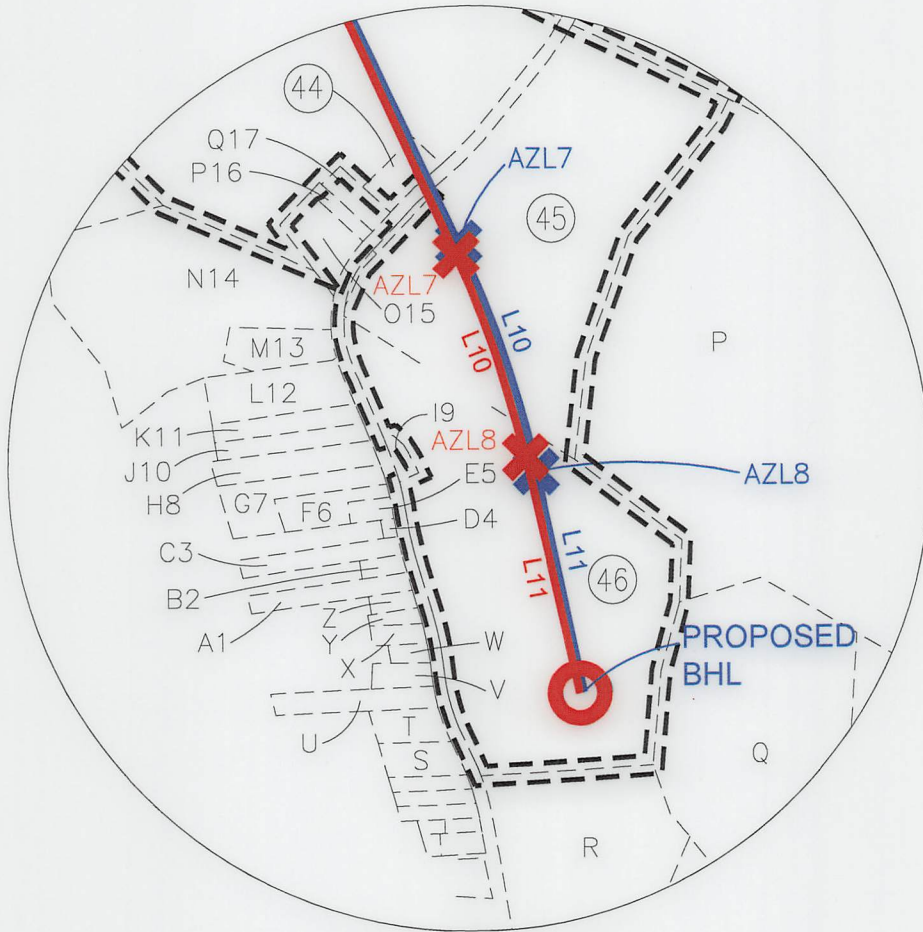
BLOW UP INSET B
SCALE: 1"=500'

09/15/2023

REVISIONS:	COMPANY:				
	OPERATOR'S				DATE: 04/12/2023
	WELL #:		SHANNON FIELDS OHI		DRAWN BY: TMF
	DISTRICT:	COUNTY:	STATE:	WV	SCALE: N/A
RICHLAND		OHIO	WV	DRAWING NO: ACE-2326	WELL LOCATION PLAT



SURVEYOR/ENGINEER:
1700 ANMOORE ROAD
BRIDGEPORT, WV 26330
1-304-933-3463



BLOW UP INSET C
SCALE: 1"=500'

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 61°41'20" W	1502.18'	2158.93'	SHL TO LPL
L4	S 30°44'19" E	480.30'	480.45'	AZL1 TO AZL2
L5	S 33°15'35" E	289.83'	289.83'	AZL2 TO AZL3
L6	S 25°09'50" E	864.42'	868.11'	AZL3 TO AZL4
L7	S 16°00'05" E	192.88'	192.88'	AZL4 TO AZL5
L8	S 17°59'02" E	481.56'	482.55'	AZL5 TO AZL6
L9	S 24°20'51" E	2795.58'	2795.58'	AZL6 TO AZL7
L10	S 18°35'15" E	577.00'	578.02'	AZL7 TO AZL8
L11	S 12°41'19" E	651.71'	651.71'	AZL8 TO BHL

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 65°08'38" W	1,490.09'	2,196.98'	SHL TO LPL
L4	S 29°59'53" E	499.27'	499.91'	AZL1 TO AZL2
L5	S 34°59'55" E	199.91'	199.91'	AZL2 TO AZL3
L6	S 25°05'35" E	986.25'	990.66'	AZL3 TO AZL4
L7	S 15°11'00" E	200.26'	200.26'	AZL4 TO AZL5
L8	S 20°03'20" E	488.67'	489.27'	AZL5 TO AZL6
L9	S 24°55'41" E	2,698.71'	2,698.71'	AZL6 TO AZL7
L10	S 18°24'51" E	649.64'	650.50'	AZL7 TO AZL8
L11	S 11°53'59" E	607.67'	607.67'	AZL8 TO BHL

09/15/2023

REVISIONS:

COMPANY:

SWN
Production Company, LLC

SWN *R₂ V⁺*
Production Company™

OPERATOR'S SHANNON FIELDS OHI
WELL #: 210H

DATE: 04/12/2023

DISTRICT: RICHLAND COUNTY: OHIO STATE: WV

DRAWN BY: TMF
SCALE: N/A
DRAWING NO: ACE-2326
WELL LOCATION PLAT



SURVEYOR/ENGINEER:
1700 ANMOORE ROAD
BRIDGEPORT, WV 26330
1-304-933-3463

WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS		
TRACT	SURFACE OWNER (S)/ROYALTY OWNER (R)	TAX PARCEL
1	SHANNON FIELDS, LLC (S/R)	4-R17-23.2
TRACT	SURFACE OWNER	TAX PARCEL
2	PARK VIEW MEMORIAL GARDENS, INC.	4-R17-8
3	NADA E. BENEKE, ET AL	4-R17-19
4	CRAIG V. & EMMA L. OLEARY	4-R17-17
5	JERMEY A. SCHREIBER & ELIZABETH PHILBRICK	4-R17-16
6	GUNTHER F. & M.E. HEMPELMAN	4-R17-14
7	COLUMBIA GAS TRANSMISSION CORP.	4-R17-15
8	GUNTHER F. & M.E. HEMPELMAN	4-R17-13
9	CARL D. III & JOLIN H. BURKLAND	4-R17-13.1
10	CARL D. III & JOLIN H. BURKLAND	4-R17-12
11	HARRY S. & BARBARA J. FISHER	4-R17-11
12	HARRY S. & BARBARA J. FISHER	4-R17-11.1
13	MATTHEW & VICTORIA GOMPERS	4-R17-10.2
14	SHASHI R & MONISHA URVAL	6-T2J-1
15	RICHARD P. & KIM M. CARTER	4-R17-23.1
16	RICHARD P. CARTER	4-R17-23.3
17	DAVID N. GAUDINO & ANN C. HOGE	6-T2J-2
18	ERICA D. & WARREN C. III WILCOX	6-T2-14
19	RODD A. & LISA R. FRANKE	6-T2-15.3
20	RODD A. & LISA R. FRANKE	6-T2-15.4
21	MICHAEL W. WILHELM	6-T2-15
22	CATHOLIC DIOCESE OF WHEELING - CHARLESTON	6-T2-11
23	DONALD G. & BECKY J. VILLANOVA	6-T2-15.2
24	DONALD G. & BECKY J. VILLANOVA	6-T2-16
25	LUANN & ARTHUR W. Jr. DANEHART	6-T2-16.1
26	LUANN & ARTHUR W. Jr. DANEHART	6-T2-16.2
27	WHEELING PARK COMMISSION	6-T7-95
28	BOARD OF EDUCATION	10-W56-1
29	BOARD OF EDUCATION	10-W56-2
30	FRANCES L. BRADEN - IRREVOC TRUST	6-T7-97
31	KENNETH & STEPHANIE SPENCER	6-T7-67.6
32	JONATHAN BRUCE WHARTON	6-T7-97.3
33	KEITH A. & WENDY J. POOLE	6-T7-97.2
34	W. C. & K. D. HAUGHT	6-T7-67.14
35	FRANCES L. BRADEN	6-T7-67
36	THOMAS L. & DONNA LYNNE FOLMAR	6-T7-67.18
37	WILLIAM O. IV & CANDICE M. LEWIS	6-T7-67.19
38	TODD M. & JENNY S. SCHIRTZINGER	6-T7-67.17
39	CHAD W. & REBECCA L. BROADWATER	6-T7-67.16
40	JAMES D. Jr. & CAROLINE K. MILLER	6-T7-117.2
41	JAMES D. Jr. & CAROLINE K. MILLER	6-T7-117.1
42	JAMES D. Jr. & CAROLINE K. MILLER	6-T7-117.3
43	PETERS RUN LAND Co., INC	6-T7-119
44	JOHN BUCHANAN	6-T7-121
45	JAY A. & LISA P. POWELL	6-T7-157
46	JANET NOEL	6-T7-126.3
ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	EARL P. HUFFNER	4-R17-24.1
B	JAMES R. MULL	4-R17-24
C	ROBERT W. MINCH, Jr. & HERBERT P. MINCH	4-R17-57
D	RUTH CARTER LEWIS, REVOCABLE TRUST	4-R17-23
E	NADA E. BENEKE	4-R17-22
F	THOMAS J. & MICHELLE N. JOHN	4-R17-20
G	CHARLES & DOLORES MONFRADI	4-R17-58
H	TIMMY B. & AMY L. MINCH	6-T2-18
I	WILLIAM A. & CYNTHIA ORUM	6-T7-178
J	DONALD A. & RHONDA L. BRADEN	6-T7-97.1
K	RALPH L., II & MELISSA E. FRITTER	6-T7-111
L	JAMES D., Jr. & CAROLINE K. MILLER	6-T7-112
M	JAMES D., Jr. & CAROLINE K. MILLER	6-T7-117
N	PETERS RUN LAND Co., INC.	6-T7-118
O	DANIEL F. OCH	6-T7-156

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
P	LUCKY FARMS, LLC	6-T12-5
Q	BDDE PROPERTIES, LLC	6-T12-4
R	PAJASA LIMITED LIABILITY Co.	6-T12-2.1
S	OHIO VALLEY REALTY COMPANY	6-T12B-13.1
T	OHIO VALLEY REALTY COMPANY	6-T12B-13
U	JOYCE A. TSORAS	6-T12B-12
V	MARK D. PANEPINTO	6-T12B-11
W	MICHAEL M. & CATHY McCULLEY	6-T12B-8
X	MARY L. QUIGLEY	6-T12B-7
Y	DENNIS THORN	6-T12B-6
Z	JEFFERY D. GIUSTINIANI & JAMACA S. DOFKA	6-T12B-4
A1	TABATHA WILSON	6-T12B-3
C3	DENNIS R. THORN, ET AL	6-T12B-1
D4	JEFFREY D. & FRANCES M. MCKENZIE	6-T12B-1.1
E5	GRETA M. GATES & R. A. FOOSE	6-T7-133
F6	SCOTT R. STEWART & MICHELLE L. NICHOLSON	6-T7-132
G7	HAROLD H. & MARY K. BELL	6-T7-131
H8	CHRISTINA M. MARTIN	6-T7-130
I9	POPCORN PROPERTIES, LLC	6-T7-126.1
J10	ROGER L. KENT, Jr.	6-T7-129.1
K11	ROGER L. KENT, Jr.	6-T7-129
L12	CARL W. & CHRISTINE S. McCARDLE	6-T7-128
M13	CARL W. McCARDLE	6-T7-127
N14	JOSEPHINE L. TAGGART	6-T7-125
O15	CHRISTINE M. POWELL	6-T7-124
P16	JAYME E. TIMBERLAKE	6-T7-123
Q17	JOHN BUCHANAN	6-T7-122
R18	PETERS RUN LAND Co., INC.	6-T7-125.1
S19	JOSEPHINE L. TAGGART	6-T7-125
T20	JAMES D., Jr. & CAROLINE K. MILLER	6-T7-67.1
U21	JOHN P. & MEREDITH L. TRISCHLER	6-T7-75.4
V22	JOHN P. & MEREDITH L. TRISCHLER	6-T7-75.3
W23	JOHN P. & MEREDITH L. TRISCHLER	6-T7-75.2
X24	KEVIN L. & MICHELLE J. HEILMAN	6-T7-67.15
Y25	RYAN P. & MICHELLE M. HUNKER	6-T7-67.20
Z26	SCOTT L. & DEANNA L. NESTOR	6-T7-67.3
A27	GERALD & ROSETTA J. BISCHOF	6-T7-67.7
B28	DEEDRA DAVIS	6-T7-67.5
C29	RONALD A. & PATRICIA L. ZANDRON	6-T7-67.8
D30	DALE A. & CAROL ANN FORESTER	6-T7-67.9
E31	MARIO B. & LOIS R. JULIAN	6-T7-67.13
F32	BENJAMIN & DANIELLE ELLWOOD	6-T7-67.23
G33	CAYLA J. & MATTHEW D. BLACK	6-T7-67.10
H34	FRANCES L. BRADEN, IRREVOC TRUST	10-W56-3
I35	VINCENET J. MAGNONE	6-T7-6
J36	BRIAN M. HINDERLITER	6-T7-6.4
K37	WHEELING PARK COMMISSION	6-T7-1
L38	WHEELING PARK COMMISSION	6-T2-17
M39	STEPHEN T. & MICHELLE L. VOGRIN	6-T2-13
N40	RCK 2 GROUP, LLC	6-T2-13.1
O41	CATHOLIC DIOCESE OF WHEELING - CHARLESTON	6-T6-1
P42	WM & P.M. HESLOP	6-T2-8
Q43	D.A. & M.R. BECKER	6-T2-10
R44	CITY OF WHEELING	6-T2-11.1
S45	MARGUERITE M. CERRA - TOD	6-T2-7
T46	KAREN A. & VARONE K.J. PACHUTA	6-T2-3
U47	ROBERT J. & TAMI L. SEEVERS, WESBANCO TRUST	6-T2-2
V48	ROY ROGER SMITH - TOD	6-T2J-4
W49	JAMES C. & MARY E. WRIGHT	6-T2J-3
X50	ROBERT B. & K.S. NELSON	6-T2J-5
Y51	MICHAEL J. & SUSAN J. BAKER	6-T2J-7
Z52	MICHAEL J. & SUSAN J. BAKER	4-R17-10
A53	ATTILA A. LENKEY	4-R17-10.1
B54	WHEELING PARK COMMISSION	6-T1-2
C55	WHEELING PARK COMMISSION	4-R17-6.1
D56	GACS LP	10-W27A-1
E57	CITY OF WHEELING	4-R14-15
F58	SAM HINEBAUGH	4-R17-8.1
G59	KENDRA L. TAYLOR	4-R17-59.1
H60	DONALD R. & M.M. EDDY	6-T7-56

09/15/2023

REVISIONS:	COMPANY:			DATE: 04/12/2023
				DRAWN BY: TMF
	OPERATOR'S	SHANNON FIELDS OHI		SCALE: N/A
	WELL #:	210H		DRAWING NO: ACE-2326
	DISTRICT:	COUNTY:	STATE:	WELL LOCATION PLAT
	RICHLAND	OHIO	WV	