

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

API 47 - 051 - 02434 County MARSHALL District LIBERTY
Quad CAMERON Pad Name CHARLES JAMISON MSH PAD Field/Pool Name NORTH VICTORY WET
Farm name CHARLES AND JEAN JAMISON Well Number CHARLES JAMISON MSH 406H
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 4,404,734.847 Easting 533,585.581
Landing Point of Curve Northing 4,404,987.245 Easting 532,638.468
Bottom Hole Northing 4,401,324.332 Easting 534,922.863

Elevation (ft) 1,337.50 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

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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 2/14/2022 Date drilling commenced 6/02/2022 Date drilling ceased 6/27/2022
Date completion activities began 7/30/2022 Date completion activities ceased 9/25/2022
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 322' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1,195' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1,086' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

APPROVED

Reviewed by:
[Signature]
01/20/2023
01/04/23

API 47- 051 - 02434 Farm name CHARLES AND JEAN JAMISON Well number CHARLES JAMISON MSH 406H

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#		
Surface	17.5	13.375	394	NEW	J-55/54.5#		Y; 34 BBLs
Coal	SEE INTERMEDIATE						
Intermediate 1	12.25	9.625	2,802'	NEW	J-55/40.0#		Y; 25 BBLs
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	22,806'	NEW	P-110 HP/20#		N
Tubing							
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	462	15.6	1.21	559.02	SURFACE	8
Coal	SEE INTERMEDIATE						
Intermediate 1	CLASS A	345/752	15.6/16.0	1.18/1.12	407.1/842.24	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	4,145	15.0	1.29	5347.05	2,950'	24
Tubing							

Drillers TD (ft) 22,806' Loggers TD (ft) 22,806' RECEIVED
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Deepest formation penetrated MARCELLUS Plug back to (ft) 22,715'
Plug back procedure N/A **DEC 15 2022**

Kick off depth (ft) 6,041' TVD WV Department of Environmental Protection

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: 38 CENTRALIZERS - EVERY THIRD JOINT OF CASING
PRODUCTION: 440 CENTRALIZERS - EVERY THIRD JOINT FROM SURFACE TO TOP OF CURVE, THEN EVERY JOINT UNTIL TD

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

API 47- 051 - 02434 Farm name CHARLES AND JEAN JAMISON Well number CHARLES JAMISON MSH 406H

PRODUCING FORMATION(S)	DEPTHS	
MARCELLUS	7,088'	TVD 8,511' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2,834 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 25,137 mcfpd Oil 36 bpd NGL _____ bpd Water 665 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		

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Please insert additional pages as applicable.

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

Logging Company BAKER HUGHES
Address 9110 GROGANS MILL RD City THE WOODLANDS State TX Zip 77380

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

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

Please insert additional pages as applicable.

Completed by DENISE GRANTHAM Telephone 832.796.6139
Signature Denise Grantham Title REGULATORY SPECIALIST Date 12.14.2022

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/31/2022
Job End Date:	9/24/2022
State:	West Virginia
County:	Marshall
API Number:	47-051-02434-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	CHARLES JAMISON MSH 406
Latitude:	39.79190752
Longitude:	-80.60772804
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,120
Total Base Water Volume (gal):	24,354,278
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	90.33719	Density = 8.345
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	85.00000	0.26432	

			Water	7732-18-5	45.00000	0.26432	
			Water	7732-18-5	100.00000	0.26432	
Sand	SWN Well Services	Proppant					
				Listed Below			
Plexslick 930	SWN Well Services	Friction Reducer					
				Listed Below			
FSTI-CI-02	SWN Well Services	Corrosion Inhibitor					
				Listed Below			
Plexaid 655NM	SWN Well Services	Scale Inhibitor					
				Listed Below			
HCL	SWN Well Services	Solvent					
				Listed Below			
Tolicide 4Frac	SWN Well Services	Biocide					
				Listed Below			
Ferriplex 80	SWN Well Services	Iron Control					
				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	9.31748	
			Hydrochloric Acid	7647-01-0	15.00000	0.03676	

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			Tetrakis(Hydroxymethyl) Phosphonium Sulfate	55566-30-8	45.00000	0.00400	
			Sodium Erythorbate	6381-77-7	100.00000	0.00131	
			Quaternary ammonium compounds	68424-85-1	7.50000	0.00067	
			Ethanol	64-17-5	2.50000	0.00022	
			Ethylene glycol	107-21-1	40.00000	0.00015	
			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	
			Cinnamaldehyde	104-55-2	10.00000	0.00004	
			benzyl chloridequaternized	72480-70-7	5.00000	0.00002	
			1-Decanol	112-30-1	5.00000	0.00002	
			Triethyl phosphate	78-40-0	5.00000	0.00002	
			1-Octanol	111-87-5	5.00000	0.00002	
			Isopropyl alcohol	67-63-0	5.00000	0.00002	
			2-Butoxyethanol	111-76-2	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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Well Name:

Charles Jamison MSH 406H

47051024340000

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	322.00	322.00	
Top of Salt Water	1195.00	1195.00	NA	NA	
Pittsburgh Coal	1086.00	1086.00	1096.00	1096.00	
Pottsville (ss)	1194.00	1194.00	1214.00	1213.00	
Raven Cliff (ss)	1614.00	1635.00	1774.00	1761.00	
Maxton (ss)	2089.00	2050.00	2306.00	2245.00	
Big Injun (ss)	2306.00	2245.00	2585.00	2492.00	
Berea (siltstone)	2976.00	2839.00	3005.00	2865.00	
Rhinestreet (shale)	7574.00	6411.00	8085.00	6854.00	
Middlesex (shale)	8085.00	6854.00	8207.00	6940.00	
Burket (shale)	8207.00	6940.00	8241.00	6963.00	
Tully (ls)	8241.00	6963.00	8283.00	6987.00	
Mahantango (shale)	8283.00	6987.00	8511.00	7088.00	
Marcellus (shale)	8511.00	7088.00	NA	NA	GAS

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CHARLES JAMISON MSH 406H
ATTACHMENT 1
PERF REPORT

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	7/30/2022	22,715	22,619	36
2	9/1/2022	22,585	22,408	36
3	9/1/2022	22,375	22,198	36
4	9/1/2022	22,165	21,989	36
5	9/1/2022	21,956	21,779	36
6	9/2/2022	21,746	21,569	36
7	9/2/2022	21,536	21,359	36
8	9/3/2022	21,326	21,149	36
9	9/3/2022	21,116	20,940	36
10	9/3/2022	20,907	20,730	36
11	9/4/2022	20,697	20,520	36
12	9/5/2022	20,487	20,310	36
13	9/5/2022	20,277	20,100	36
14	9/6/2022	20,067	19,890	36
15	9/6/2022	19,858	19,681	36
16	9/6/2022	19,648	19,471	36
17	9/7/2022	19,438	19,261	36
18	9/7/2022	19,228	19,051	36
19	9/8/2022	19,018	18,841	36
20	9/8/2022	18,808	18,632	36
21	9/9/2022	18,599	18,422	36
22	9/10/2022	18,389	18,212	36
23	9/10/2022	18,179	18,002	36
24	9/10/2022	17,969	17,792	36
25	9/11/2022	17,759	17,583	36
26	9/11/2022	17,550	17,373	36
27	9/12/2022	17,340	17,163	36
28	9/12/2022	17,130	16,953	36
29	9/13/2022	16,920	16,743	36
30	9/13/2022	16,710	16,533	36
31	9/13/2022	16,501	16,324	36
32	9/14/2022	16,291	16,114	36
33	9/14/2022	16,081	15,904	36
34	9/14/2022	15,871	15,694	36
35	9/14/2022	15,661	15,485	36
36	9/15/2022	15,452	15,275	36
37	9/15/2022	15,242	15,065	36
38	9/15/2022	15,032	14,855	36
39	9/15/2022	14,822	14,645	36
40	9/16/2022	14,612	14,436	36
41	9/16/2022	14,403	14,226	36
42	9/16/2022	14,193	14,016	36
43	9/17/2022	13,983	13,806	36

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**CHARLES JAMISON MSH 406H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
44	9/17/2022	13,773	13,596	36
45	9/18/2022	13,563	13,387	36
46	9/18/2022	13,354	13,177	36
47	9/18/2022	13,144	12,967	36
48	9/18/2022	12,934	12,757	36
49	9/19/2022	12,724	12,547	36
50	9/19/2022	12,514	12,337	36
51	9/19/2022	12,305	12,128	36
52	9/20/2022	12,095	11,918	36
53	9/20/2022	11,885	11,708	36
54	9/20/2022	11,675	11,498	36
55	9/21/2022	11,465	11,288	36
56	9/21/2022	11,255	11,079	36
57	9/21/2022	11,046	10,869	36
58	9/22/2022	10,836	10,659	36
59	9/22/2022	10,626	10,449	36
60	9/22/2022	10,416	10,239	36
61	9/22/2022	10,206	10,030	36
62	9/23/2022	9,997	9,820	36
63	9/23/2022	9,787	9,610	36
64	9/23/2022	9,577	9,400	36
65	9/23/2022	9,367	9,190	36
66	9/24/2022	9,157	8,981	36
67	9/24/2022	8,948	8,771	36
68	9/24/2022	8,738	8,561	36

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CHARLES JAMISON MSH 406H

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	8/31/2022	75.7	9,106	9,395	3,799	178,050	5,465	0
2	9/1/2022	86.7	9,407	10,132	4,611	310,640	9,753	0
3	9/1/2022	88.5	9,789	9,275	4,788	311,220	9,209	0
4	9/1/2022	88.2	9,159	6,899	5,475	314,830	9,472	0
5	9/2/2022	83.3	8,957	6,524	5,012	316,610	9,216	0
6	9/2/2022	83.6	9,284	6,466	5,189	320,640	14,890	0
7	9/3/2022	88.4	9,201	6,788	5,123	314,720	9,278	0
8	9/3/2022	93.2	9,456	5,306	5,613	314,390	9,192	0
9	9/3/2022	87.6	9,656	5,291	5,408	309,980	9,978	0
10	9/4/2022	87	9,159	6,369	4,562	307,740	9,184	0
11	9/4/2022	93.7	9,187	6,457	4,819	311,280	9,306	0
12	9/5/2022	92.9	9,382	6,516	4,622	314,400	8,969	0
13	9/5/2022	81.8	8,344	5,694	4,501	310,440	9,052	0
14	9/6/2022	74.4	7,577	5,511	5,225	318,450	9,257	0
15	9/6/2022	99	9,579	7,003	5,102	312,630	9,222	0
16	9/7/2022	99.3	9,182	6,597	5,120	310,580	9,045	0
17	9/7/2022	97.1	9,388	7,027	4,939	312,380	9,136	0
18	9/8/2022	93.1	9,068	6,448	4,563	311,090	9,175	0
19	9/8/2022	95	9,267	5,106	5,385	309,520	9,062	0
20	9/9/2022	85.5	8,403	7,438	4,914	308,790	8,844	0
21	9/10/2022	87.1	8,744	7,435	5,431	309,850	9,019	0
22	9/10/2022	85.9	8,530	6,443	4,780	321,810	8,918	0
23	9/10/2022	85.8	8,363	6,056	4,649	312,560	8,968	0
24	9/11/2022	86.9	8,333	6,233	5,130	317,430	8,997	0
25	9/11/2022	90.1	9,042	6,709	4,953	310,150	9,000	0
26	9/12/2022	97.3	9,437	6,074	5,222	308,550	8,826	0
27	9/12/2022	89.4	9,116	6,602	5,214	308,610	8,813	0
28	9/13/2022	93.6	9,026	6,550	5,116	314,800	8,977	0
29	9/13/2022	92	9,141	6,295	4,843	312,550	8,925	0
30	9/13/2022	88.5	8,740	6,818	4,775	307,770	8,677	0
31	9/14/2022	91.9	8,629	6,790	4,865	307,330	8,708	0
32	9/14/2022	97	8,957	7,120	5,430	311,506	8,812	0
33	9/14/2022	99	8,900	6,857	5,973	314,220	8,646	0
34	9/14/2022	89.2	8,503	6,945	5,585	315,100	8,714	0
35	9/14/2022	99.5	8,971	6,770	5,696	314,960	8,677	0
36	9/15/2022	98.6	8,847	6,182	6,354	309,030	8,622	0
37	9/15/2022	97.6	8,954	6,058	6,910	309,740	8,746	0
38	9/15/2022	98.2	8,870	6,671	5,744	306,860	8,489	0
39	9/16/2022	88.6	8,511	6,529	5,893	312,440	8,548	0
40	9/16/2022	90.7	8,555	6,816	5,788	320,670	8,660	0
41	9/16/2022	96.5	8,554	6,641	5,850	316,591	8,868	0
42	9/17/2022	87.1	8,579	6,548	5,667	316,730	8,594	0
43	9/17/2022	86.9	8,088	6,303	6,013	320,540	7,854	0
44	9/18/2022	86.7	8,362	6,050	5,698	311,950	8,404	0
45	9/18/2022	98.1	8,729	6,302	5,580	312,730	8,011	0
46	9/18/2022	90.7	8,159	5,856	5,840	317,140	7,980	0
47	9/18/2022	87.1	7,792	6,895	4,913	320,640	7,935	0
48	9/19/2022	98.9	8,739	6,809	5,542	315,520	7,850	0
49	9/19/2022	98	8,594	6,243	5,830	312,820	8,076	0
50	9/19/2022	95.5	8,283	5,900	5,649	312,180	7,859	0
51	9/20/2022	90.4	8,035	5,719	5,245	308,240	7,783	0
52	9/20/2022	96	8,234	6,141	5,816	315,760	7,632	0
53	9/20/2022	97.2	8,566	5,972	5,199	310,140	7,602	0

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CHARLES JAMISON MSH 406H

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	9/20/2022	96.3	8,268	5,790	4,860	314,500	7,931	0
55	9/21/2022	93.9	8,337	5,800	5,398	311,680	7,658	0
56	9/21/2022	88.4	7,833	6,725	5,565	310,340	7,026	0
57	9/21/2022	84	7,677	5,856	5,874	314,650	7,871	0
58	9/22/2022	97.9	8,326	5,850	5,556	306,750	7,489	0
59	9/22/2022	94	8,198	5,740	6,355	313,450	7,535	0
60	9/22/2022	98.8	8,418	6,705	5,655	313,560	8,390	0
61	9/23/2022	98.4	8,282	6,509	5,576	309,970	7,549	0
62	9/23/2022	99	8,364	6,832	6,680	311,700	7,546	0
63	9/23/2022	99	8,129	6,637	5,518	310,730	7,607	0
64	9/23/2022	99.4	8,315	6,783	5,762	308,170	7,554	0
65	9/24/2022	94.8	8,110	6,691	5,425	314,400	7,461	0
66	9/24/2022	89.4	7,522	6,986	5,840	315,900	8,255	0
67	9/24/2022	92.5	8,313	7,062	5,671	314,570	7,534	0
68	9/24/2022	34.2	3,686	6,835	5,657	136,370	7,035	0

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Latitude: 39°50'00" (SHL)

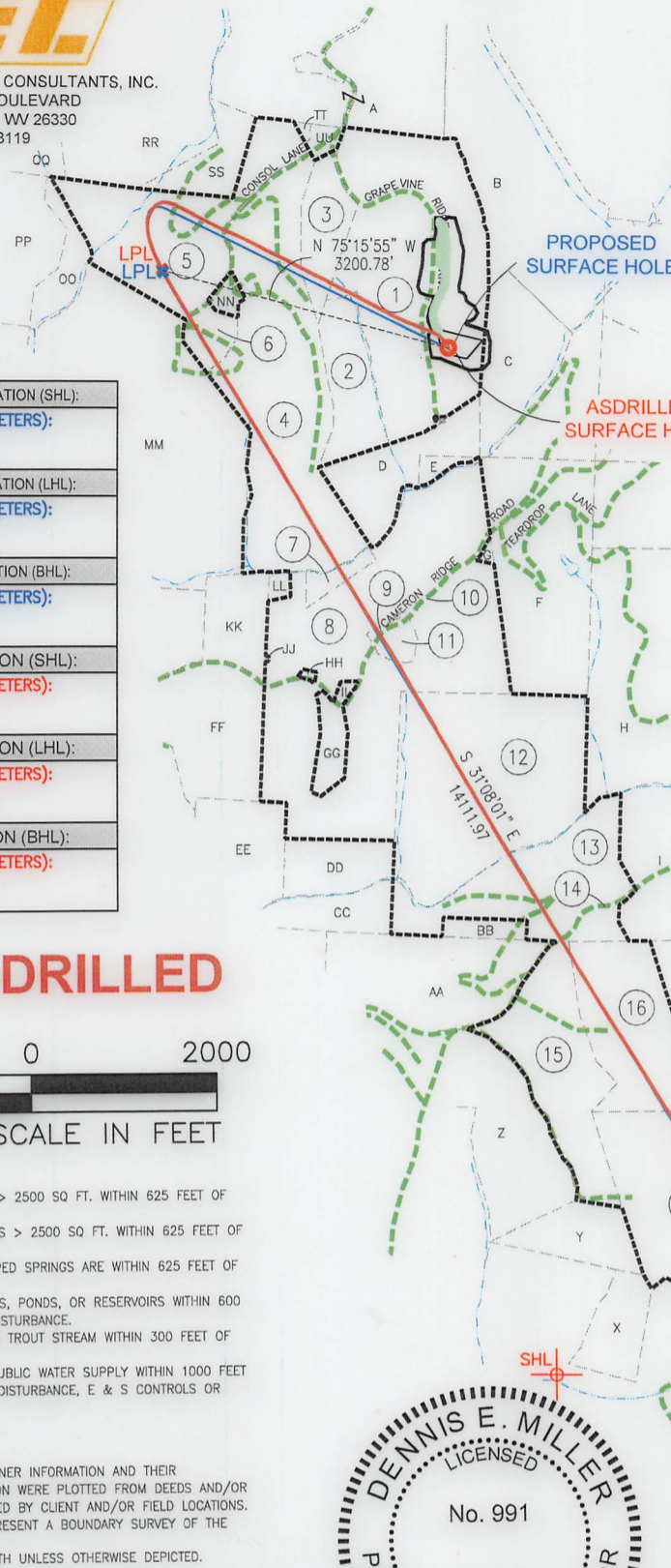
SURFACE HOLE 6,855'

BOTTOM HOLE 2,518'

Latitude: 39°47'30" (BHL)



CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
120 GENESIS BOULEVARD
BRIDGEPORT, WV 26330
304-933-3119



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

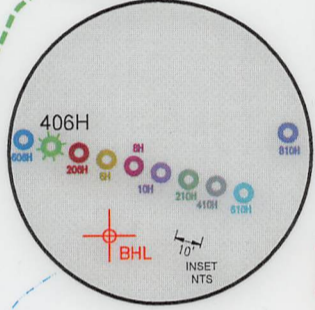
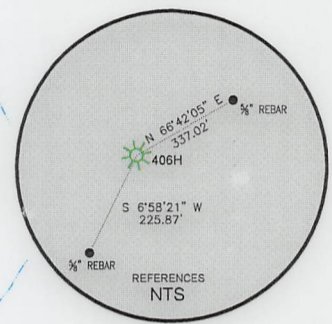
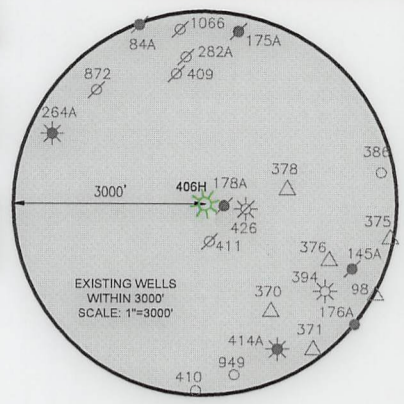
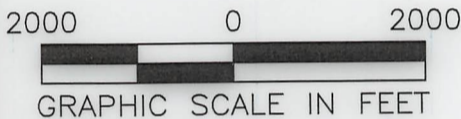


Table with 4 columns: Location Type, UTM (NAD83, Zone 17, Meters), Northing, and Easting. Rows include Permit Surface Hole (SHL), Permit Landing Point (LHL), Permit Bottom Hole (BHL), and Surface Hole (SHL).

AS-DRILLED



WELL RESTRICTIONS

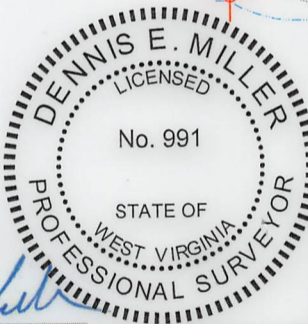
- 1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 625 FEET OF PROPOSED WELL.
4. PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 600 FEET OF THE LIMITS 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. 991



COMPANY: SWN Production Company, LLC

CHARLES JAMISON MSH
OPERATOR'S WELL #: 406H
API WELL #: 47 STATE 051 COUNTY 02434 PERMIT

(+) 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)

WELL TYPE: OIL [] WASTE DISPOSAL [] PRODUCTION [X] DEEP [] GAS [X] LIQUID INJECTION [] STORAGE [] SHALLOW [X]
WATERSHED: MAGGOTY RUN
DISTRICT: LIBERTY DISTRICT COUNTY: MARSHALL
SURFACE OWNER: CHARLES AND JEAN JAMISON
OIL & GAS ROYALTY OWNER: CHARLES AND JEAN JAMISON
DRILL [] DRILL DEEPER [] REDRILL [] FRACTURE OR STIMULATE [] PLUG OFF OLD FORMATION [] PERFORATE NEW FORMATION []
CONVERT [] PLUG & ABANDON [] CLEAN OUT & REPLUG [] OTHER CHANGE [X] (SPECIFY) AS-DRILLED
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,130.62 TVD 22,806 TMD

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

Table with 2 columns: Legend and Revisions. Legend includes Proposed Surface Hole, Existing Well, Landing Point, Existing Water Well, Existing Spring, Surveyed Boundary, Drilling Unit, Lease Boundary, Asdrilled Path, Proposed Path. Revisions table includes Date (08-05-2022), Drawn By (K.E.S.), Scale (1" = 2000'), Drawing No (170-426), Well Location Plat.



CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
 120 GENESIS BOULEVARD
 BRIDGEPORT, WV 26330
 304-933-3119

WELL BORE TABLE FOR SURFACE OWNERS		
TRACT	SURFACE OWNER	TAX PARCEL
1	CHARLES AND JEAN JAMISON	07-007-0006
2	TIMOTHY R. CAIN	07-007-0006.2
3	MARSHALL COUNTY COAL RESOURCES INC.	07-007-0006.3
4	MARSHALL COUNTY COAL RESOURCES INC.	07-007-0005.3
5	WAYNE E. GRAHAM JR. & GWENDOLYN L. GRAHAM	07-007-0005
6	WAYNE E. GRAHAM JR. & GWENDOLYN L. GRAHAM	07-007-0005.1
7	G. & JAN DOBBS FAMILY TRUST; ERIC SCOTT DOBBS; AND DOROTHY VESS	07-010-0017
8	G. & JAN DOBBS FAMILY TRUST; ERIC SCOTT DOBBS; AND DOROTHY VESS	07-010-0018
9	G. & JAN DOBBS FAMILY TRUST; ERIC SCOTT DOBBS; AND DOROTHY VESS	07-010-0018.6
10	CO. RT. 23 ROW (CAMERON RIDGE ROAD)	
11	G. & JAN DOBBS FAMILY TRUST & ERIC SCOTT DOBBS	07-010-0018.7
12	G. & JAN DOBBS FAMILY TRUST; ERIC SCOTT DOBBS; AND DOROTHY VESS	07-010-0022
13	HAROLD E. & ANITA RUSH	07-010-0023
14	FISH RIDGE ROAD ROW	
15	STEPHANIE F. YEATER	07-016-0029.3
16	ROBERT D. WILLIAMS	07-016-0030
17	RUSSELL ALLEN DOTSON JR. & JODI D. DOTSON	07-016-0028
18	JOHN M. BUTLER AND DAVID R. BUTLER	07-016-0026.1
19	CO. RT. 96 ROW	
20	DAVID T. BUTLER - LIFE	07-016-0026
21	JOHN BUTLER AND BENJAMIN BUTLER	07-016-0039

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	KENNETH WAYNE STEELE REVOCABLE LIVING TRUST AGREEMENT	07-007-0008.1
B	KENNETH WAYNE STEELE REVOCABLE LIVING TRUST AGREEMENT	07-007-0011
C	GAIL ZWICK - LIFE	07-007-0012
D	TIMOTHY R. CAIN	07-007-0006.1
E	CHARLES & JEAN JAMISON	07-007-0013
F	MARSHALL COUNTY COAL RESOURCE INC	07-010-0019
G	JEFFREY A. MURRAY	07-010-0018.2
H	G. & JAN DOBBS FAMILY TRUST & ERIC SCOTT DOBBS	07-010-0021
I	HOWARD E. WILLIAMS	07-010-0025.1
J	RUSSELL ALLEN DOTSON JR. & JODI D. DOTSON	07-016-0031
K	ELLEN MARIE QUIGLEY	07-016-0033
L	JEREMIAH N. & ANDREA J. MAGERS	07-016-0033.1
M	DAVID L. ELSON AND DEBBIE L. ELSON, HIS WIFE, AS JOINT TENANTS WITH THE RIGHT OF SURVIVORSHIP	07-016-0034
N	ELLEN MARIE QUIGLEY	07-016-0036
O	BARBARA R. ARDENO, ET AL	07-016-0037
P	JOHN E. RIGGS JR. AND DALENA RIGGS, HIS WIFE	07-016-0038
Q	JOHN E. RIGGS JR.	07-016-0041
R	JUDITH ANN BURGE, VIRGINIA L. BAILEY, AND SUELLEN MARLING, AS TENANTS IN COMMON	07-016-0040
S	CHARLES ALLEN UNDERDONK, ALSO KNOWN AS ALAN UNDERDONK	07-016-0025.1
T	GAIL K. CUMPSTON PORTER	07-019-0020
U	GEORGE R. CUMPSTON AND NANCY K. CUMPSTON, HIS WIFE; AND GAIL K. PORTER, AS JOINT TENANTS WITH THE RIGHT OF SURVIVORSHIP	07-016-0024
V	BEN F. ALLMAN AND ELLEN ALLMAN, HIS WIFE, AS JOINT TENANTS WITH THE RIGHT OF SURVIVORSHIP	07-016-0025
W	LEVI M. LOGSDON AND BRIANNE N. LOGSDON HUSBAND AND WIFE, AS JOINT TENANTS WITH THE RIGHT OF SURVIVORSHIP	07-016-0025.2
X	GEORGE R. CUMPSTON AND NANCY K. CUMPSTON, HIS WIFE; AND GAIL K. PORTER, AS JOINT TENANTS WITH THE RIGHT OF SURVIVORSHIP	07-016-0027
Y	RICHARD M. YEATER AND DEBRA S. YEATER, HIS WIFE, AS JOINT TENANTS WITH THE RIGHT OF SURVIVORSHIP	07-016-0029.1
Z	SUSAN JANE YEATER, JOSEPH EDWARD YEATER, AND PRESTON A. YEATER AND HEATHER L. YEATER	07-016-0029
AA	VINCENT E. LEMASTERS	07-010-0024
BB	HAROLD E. & ANITA RUSH	07-010-0023.1
CC	JAMES M. CLARK	07-010-0009
DD	JAMES M. CLARK	07-010-0010
EE	CHARLES R. CLARK & MARILYN V. WHIPKEY	07-010-0011
FF	CHARLES R. CLARK & MARILYN V. WHIPKEY	07-010-0012
GG	ERIC SCOTT & TIFFANY J. DOBBS	07-010-0018.4
HH	JERRY S. & CYNTHIA C. WHORTON	07-010-0018.3
II	HAZEN B. PYLES	07-010-0018.1
JJ	ERIC SCOTT & TIFFANY J. DOBBS	07-010-0018.5
KK	PAMELA J. HOWARD AND SCOTT MICHAEL OWEN WHITE	07-010-0015
LL	G. & JAN DOBBS FAMILY TRUST; ERIC SCOTT DOBBS; AND DOROTHY VESS	07-010-0016
MM	WAYNE E. GRAHAM JR. & GWENDOLYN L. GRAHAM	07-007-0004
NN	WAYNE E. GRAHAM JR. & GWENDOLYN L. GRAHAM	07-007-0005.2
OO	CONSOLIDATED COAL COMPANY / MURRAY ENERGY CO LAND DEPARTMENT	07-007-0003
PP	BLAINE E. STERN JR.	07-008-0013
QQ	GEORGE. A. BURRIS AND PAUL J. BURRIS	07-008-0014
RR	KAREN S. EVANS & JUDY K. MATTHEWS	07-007-0001
SS	KAREN S. EVANS & JUDY K. MATTHEWS	07-007-0002
TT	CONSOLIDATED COAL COMPANY / MURRAY ENERGY CO LAND DEPARTMENT	07-007-0007.1
UU	MARSHALL COUNTY COAL RESOURCE INC	07-007-0007

AS-DRILLED

API WELL #: **47** **051** **02434**
 STATE COUNTY PERMIT

01/20/2023

REVISIONS:	COMPANY:			
	OPERATOR'S		CHARLES JAMISON MSH	
	WELL #:		406H	
	DISTRICT:	COUNTY:	STATE:	DATE: 08-05-2022
	LIBERTY DISTRICT	MARSHALL	WV	DRAWN BY: K.E.S.
				SCALE: N/A
				DRAWING NO: 170-426
				WELL LOCATION PLAT 2