

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

API 47 - 051 - 02464 County MARSHALL District LIBERTY
Quad LITTLETON, WV Pad Name YOCUM MSH - PAD-1 Field/Pool Name VICTORY FIELD WET
Farm name SWN PRODUCTION COMPANY, LLC Well Number YOCUM MSH 206H
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 4,398,185.42 Easting 535,657.34
Landing Point of Curve Northing 4,397,772.49 Easting 535,418.05
Bottom Hole Northing 4,394,815.35 Easting 538,561.07

Elevation (ft) 1052.6' 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

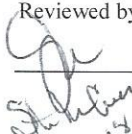
Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s) SOBM

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Date permit issued 9/2/2022 Date drilling commenced 1/14/2023 Date drilling ceased 2/7/2023
Date completion activities began 5/1/2023 Date completion activities ceased 6/18/2023
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 437' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 894' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 876' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

10-18-2023

03/15/2024

API 47-051 - 02464 Farm name SWN PRODUCTION COMPANY, LLC Well number YOCUM MSH 206H

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	533' ✓	NEW	J-55/54.5#		Y; 22 BBLS
Coal	SEE INTERMEDIATE						
Intermediate 1	12.25	9.625	2,630'	NEW	J-55/36#		Y; 36 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75	5.5	22,108' ✓	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	638	15.60	1.19	759.22	SURFACE	8
Coal	SEE INTERMEDIATE						
Intermediate 1	CLASS A	513 / 602	15.60 / 16.00	1.18 / 1.12	605.34 / 674.24	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	5,301	15.00	1.29	6,838.29	626'	24
Tubing							

Drillers TD (ft) 22,108' Loggers TD (ft) 22,108'
 Deepest formation penetrated MARCELLUS Plug back to (ft) 21,909'
 Plug back procedure N/A

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Kick off depth (ft) 6,610' MD

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Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature

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Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

SURFACE: 7 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 INTERMEDIATE: 45 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 PRODUCTION: 439 CENTRALIZERS - EVERY THIRD JOINT FROM SURFACE TO TOP OF CURVE, THEN EVERY JOINT UNTIL TD

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

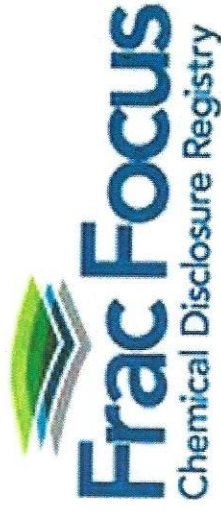
WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/30/2023
Job End Date:	5/15/2023
State:	West Virginia
County:	Marshall
API Number:	47-051-02464-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	YOCUM MSH 206
Latitude:	39.73281203
Longitude:	-80.58388756
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,219
Total Base Water Volume (gal):	24,303,756
Total Base Non Water Volume:	0



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	90.25881	Density = 8.345
Ingredients	Listed Above	Listed Above					
	Listed Above		Water	7732-18-5	85.00000	0.28658	

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			Water		7732-18-5	85.00000	0.28658
			Water		7732-18-5	85.00000	0.28658
Tolicide 4Frac	SWN Well Services	Biocide			Listed Below		
Ferriplex 80	SWN Well Services	Iron Control			Listed Below		
FSTI-CI-02	SWN Well Services	Corrosion Inhibitor			Listed Below		
Plexslick V996	SWN Well Services	Friction Reducer			Listed Below		
HCL	SWN Well Services	Solvent			Listed Below		
Sand	SWN Well Services	Proppant			Listed Below		
Plexaid 655NM	SWN Well Services	Scale Inhibitor			Listed Below		
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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	9.34788
			Hydrochloric Acid		7647-01-0	15.00000	0.04274

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Well Name: Yocum MSH 206H

47051024640000

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	437.00	437.00	
Top of Salt Water	894.00	894.00	NA	NA	
Pittsburgh Coal	876.00	876.00	887.00	887.00	
Pottsville (ss)	978.00	978.00	1003.00	1003.00	
Raven Cliff (ss)	1506.00	1501.00	1630.00	1622.00	
Maxton (ss)	1878.00	1860.00	2021.00	1997.00	
Big Injun (ss)	2080.00	2053.00	2355.00	2317.00	
Berea (siltstone)	2717.00	2670.00	2745.00	2698.00	
Rhinestreet (shale)	6565.00	6368.00	6909.00	6695.00	
Cashaqua (shale)	6909.00	6695.00	7058.00	6823.00	
Middlesex (shale)	7058.00	6823.00	7204.00	6931.00	
Burket (shale)	7204.00	6931.00	7245.00	6957.00	
Tully (ls)	7245.00	6957.00	7288.00	6983.00	
Mahantango (shale)	7288.00	6983.00	7566.00	7092.00	
Marcellus (shale)	7566.00	7092.00	NA	NA	GAS

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YOCUM MSH 206H

ATTACHMENT 1

PERF REPORT

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	4/27/2023	22,024	21,933	36
2	4/30/2023	21,902	21,725	36
3	5/1/2023	21,692	21,515	36
4	5/1/2023	21,482	21,304	36
5	5/1/2023	21,271	21,094	36
6	5/1/2023	21,061	20,884	36
7	5/2/2023	20,851	20,674	36
8	5/2/2023	20,641	20,464	36
9	5/3/2023	20,431	20,253	36
10	5/3/2023	20,220	20,043	36
11	5/3/2023	20,010	19,833	36
12	5/3/2023	19,800	19,623	36
13	5/4/2023	19,590	19,413	36
14	5/4/2023	19,380	19,203	36
15	5/4/2023	19,169	18,992	36
16	5/4/2023	18,959	18,782	36
17	5/4/2023	18,749	18,572	36
18	5/5/2023	18,539	18,362	36
19	5/5/2023	18,329	18,152	36
20	5/5/2023	18,119	17,941	36
21	5/5/2023	17,908	17,731	36
22	5/5/2023	17,698	17,521	36
23	5/6/2023	17,488	17,311	36
24	5/6/2023	17,278	17,101	36
25	5/6/2023	17,068	16,890	36
26	5/6/2023	16,857	16,680	36
27	5/6/2023	16,647	16,470	36
28	5/7/2023	16,437	16,260	36
29	5/7/2023	16,227	16,050	36
30	5/7/2023	16,017	15,839	36
31	5/7/2023	15,806	15,629	36
32	5/7/2023	15,596	15,419	36
33	5/8/2023	15,386	15,209	36
34	5/8/2023	15,176	14,999	36
35	5/8/2023	14,966	14,788	36
36	5/8/2023	14,755	14,578	36
37	5/8/2023	14,545	14,368	36
38	5/9/2023	14,335	14,158	36
39	5/9/2023	14,125	13,948	36
40	5/9/2023	13,915	13,738	36
41	5/9/2023	13,704	13,527	36
42	5/9/2023	13,494	13,317	36

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STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
43	5/10/2023	13,284	13,107	36
44	5/10/2023	13,074	12,897	36
45	5/10/2023	12,864	12,687	36
46	5/10/2023	12,654	12,476	36
47	5/10/2023	12,443	12,266	36
48	5/10/2023	12,233	12,056	36
49	5/11/2023	12,023	11,846	36
50	5/11/2023	11,813	11,636	36
51	5/11/2023	11,603	11,425	36
52	5/11/2023	11,392	11,215	36
53	5/11/2023	11,182	11,005	36
54	5/12/2023	10,972	10,795	36
55	5/12/2023	10,762	10,585	36
56	5/12/2023	10,552	10,374	36
57	5/12/2023	10,341	10,164	36
58	5/12/2023	10,131	9,954	36
59	5/12/2023	9,921	9,744	36
60	5/13/2023	9,711	9,534	36
61	5/13/2023	9,501	9,323	36
62	5/13/2023	9,290	9,113	36
63	5/13/2023	9,080	8,903	36
64	5/14/2023	8,870	8,693	36
65	5/14/2023	8,660	8,483	36
66	5/14/2023	8,450	8,272	36
67	5/14/2023	8,239	8,062	36
68	5/14/2023	8,029	7,852	36
69	5/14/2023	7,819	7,642	36

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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/othr
1	4/30/2023	78.3	10,209	7,791	5,049	177,960	6,149	0
2	4/30/2023	86.2	9,991	6,950	5,850	310,020	9,570	0
3	5/1/2023	89.3	9,936	9,047	5,752	303,940	11,750	0
4	5/1/2023	95.4	9,817	7,279	5,643	308,820	8,715	0
5	5/1/2023	94.6	10,017	6,920	5,325	303,800	8,815	0
6	5/2/2023	98.5	9,882	6,715	6,100	303,820	8,561	0
7	5/2/2023	97.3	10,001	7,118	5,720	304,070	10,103	0
8	5/2/2023	98.6	9,958	7,015	5,790	301,860	8,799	0
9	5/3/2023	88.7	9,571	6,850	5,912	304,260	8,552	0
10	5/3/2023	83.2	9,099	6,842	6,000	301,180	8,736	0
11	5/3/2023	98.5	9,966	6,715	5,965	296,620	8,540	0
12	5/4/2023	99	10,133	6,700	6,120	301,860	8,673	0
13	5/4/2023	93.4	10,048	7,005	6,011	300,360	8,606	0
14	5/4/2023	95.6	9,697	3,667	6,351	305,040	8,745	0
15	5/4/2023	79.1	9,200	9,677	5,641	300,840	8,360	0
16	5/4/2023	96.1	9,939	6,785	5,100	307,270	8,689	0
17	5/5/2023	90	9,027	6,700	6,100	307,380	8,549	0
18	5/5/2023	95.8	10,148	6,705	5,341	303,370	8,481	0
19	5/5/2023	91.9	10,082	5,447	5,768	304,160	8,535	0
20	5/5/2023	98.5	9,817	7,177	5,230	302,330	8,524	0
21	5/5/2023	95.2	10,159	6,740	5,320	309,310	8,608	0
22	5/5/2023	93.6	9,460	6,410	5,900	308,090	8,557	0
23	5/6/2023	98.2	10,235	6,870	6,100	309,510	8,578	0
24	5/6/2023	96.8	10,280	7,089	5,557	309,290	7,640	0
25	5/6/2023	98.8	9,719	6,984	5,606	304,210	8,568	0
26	5/6/2023	98.3	10,048	6,710	5,615	309,070	8,639	0
27	5/6/2023	89.6	9,211	7,020	5,580	297,110	8,177	0
28	5/7/2023	99.5	9,728	6,825	6,581	303,230	8,317	0
29	5/7/2023	95.3	9,051	7,137	6,015	303,540	9,442	0
30	5/7/2023	93.5	8,962	6,457	6,114	306,400	8,494	0
31	5/7/2023	99.9	9,102	6,740	6,230	302,900	8,374	0
32	5/7/2023	99.9	9,049	6,600	6,000	306,050	8,370	0
33	5/8/2023	99.6	9,241	6,965	6,000	311,120	8,302	0
34	5/8/2023	99	9,158	6,771	5,702	308,250	8,443	0
35	5/8/2023	96.9	8,803	6,888	5,177	299,200	8,107	0
36	5/8/2023	93.4	8,826	6,485	5,500	307,440	9,759	0
37	5/9/2023	99.9	9,174	6,200	5,600	306,100	8,528	0
38	5/9/2023	98.6	9,414	5,269	5,636	299,940	8,373	0
39	5/9/2023	98.5	9,122	7,035	5,119	311,200	8,369	0
40	5/9/2023	95.6	9,016	6,535	5,830	307,580	8,204	0
41	5/9/2023	87	8,286	6,375	5,480	308,760	8,202	0
42	5/10/2023	99.9	9,370	6,605	5,800	309,620	8,231	0
43	5/10/2023	100.1	9,272	6,784	5,697	316,340	8,538	0
44	5/10/2023	99.1	8,559	6,857	5,733	311,240	8,232	0
45	5/10/2023	96.9	8,592	6,544	5,184	307,790	8,239	0
46	5/10/2023	82.7	7,750	6,279	5,436	305,200	8,379	0
47	5/10/2023	93.9	8,025	6,081	5,785	304,540	8,204	0
48	5/11/2023	99.9	8,531	3,181	4,953	310,460	8,353	0
49	5/11/2023	99.2	8,226	6,394	6,052	312,040	8,434	0
50	5/11/2023	99.9	8,216	7,338	5,775	305,500	8,138	0
51	5/11/2023	97	8,133	6,795	6,023	307,320	8,018	0
52	5/11/2023	74.2	7,215	6,304	5,144	305,190	8,126	0
53	5/11/2023	99.9	8,027	6,012	5,647	307,370	8,272	0

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ATTACHMENT 2

STIM REPORT

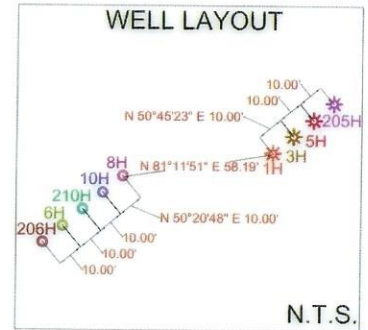
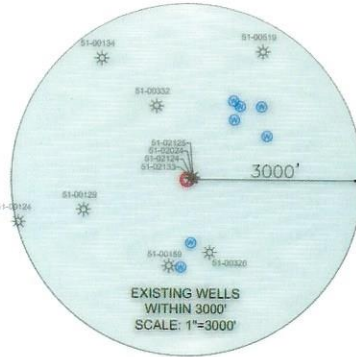
STAGE NUM	Stim Date	Ave Pump Rate (BPM)	Ave Treatment	Max Breakdown	ISIP (PSI)	Amount of Proppant (lbs)	Amount of water bbls	Amount of nitrogen/othr
54	5/12/2023	69.6	7,336	6,075	5,119	310,000	8,266	0
55	5/12/2023	82	6,886	5,785	5,398	309,610	7,878	0
56	5/12/2023	100	7,764	5,988	5,610	306,390	7,989	0
57	5/12/2023	100	8,060	6,318	5,215	305,300	7,946	0
58	5/12/2023	90	7,685	6,187	5,055	314,000	8,148	0
59	5/13/2023	100	7,950	5,535	5,319	308,740	8,113	0
60	5/13/2023	100	8,032	6,321	4,978	313,580	8,120	0
61	5/13/2023	100	7,920	6,530	5,167	306,440	7,887	0
62	5/13/2023	100	8,289	5,954	5,330	307,780	8,143	0
63	5/13/2023	100	7,921	5,905	5,907	308,320	8,181	0
64	5/14/2023	100	8,078	5,878	5,430	307,540	7,932	0
65	5/14/2023	100	7,765	5,954	5,029	304,060	7,852	0
66	5/14/2023	100	7,498	6,237	5,120	310,780	7,792	0
67	5/14/2023	91.8	7,729	6,652	5,224	305,260	7,783	0
68	5/14/2023	98	7,558	6,085	5,122	302,030	7,838	0
69	5/15/2023	95.1	7,990	6,256	5,224	305,320	7,836	0

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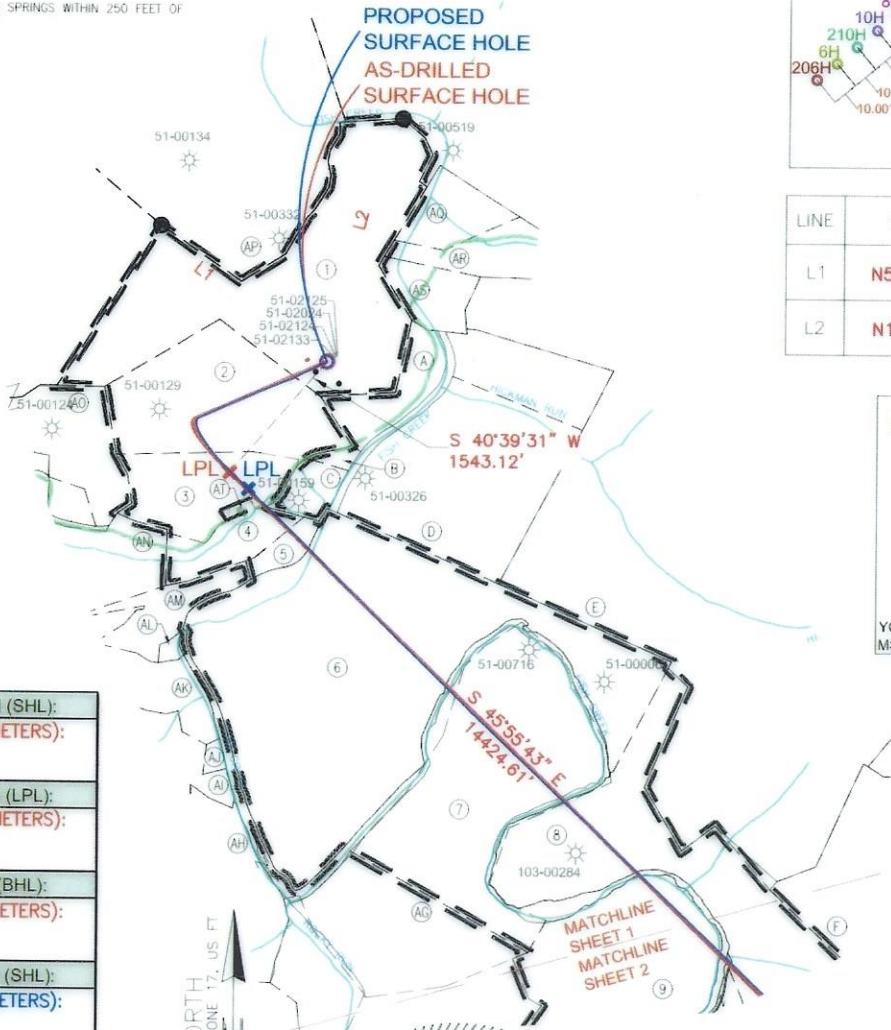
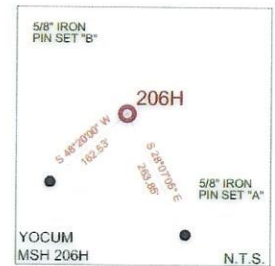
NOTES ON SURVEY

1. COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
5. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
6. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
7. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.

LATITUDE: 39°45' SURFACE HOLE (2000' SCALE) 126'
 LATITUDE: 39°42'30" BOTTOM HOLE (2000' SCALE) 2327'

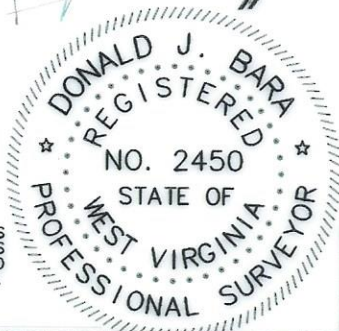


LINE	BEARING	DISTANCE
L1	N51°19'40\"/>	
L2	N15°17'19\"/>	



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4398185.42
EASTING: 535657.34
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4397772.49
EASTING: 535418.05
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4394815.35
EASTING: 538561.07
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4398185.59
EASTING: 535657.52
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4397823.83
EASTING: 535357.17
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4394819.88
EASTING: 538565.68

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. 2450

COMPANY:
SWN **swn** *R-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 SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)	YOCUM MSH OPERATOR'S WELL #: 206H API WELL #: 47 051 02464 STATE COUNTY PERMIT
	WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/>	WATERSHED: UPPER OHIO SOUTH DISTRICT: LIBERTY COUNTY: MARSHALL SURFACE OWNER: JOSEPH LEE AND MICHAEL D. YOCUM OIL & GAS ROYALTY OWNER: JOSEPH LEE AND MICHAEL D. YOCUM DRILL <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/>

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) **AS-DRILLED** 03/15/2024
 TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,282' TVD 22,121' TMD

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

LEGEND: ○ EXISTING BOTTOM HOLE ☆ EXISTING / PRODUCING WELLHEAD LPL☆ EXISTING LANDING POINT LOCATION ○ PROPOSED SURFACE HOLE / BOTTOM HOLE LPL☆ PROPOSED LANDING POINT LOCATION — ACCESS ROAD — PUBLIC ROAD — FLOOD PLAIN — LEASE BOUNDARY — AS DRILLED PATH — PROPOSED PATH	REVISIONS: DATE: 05-03-2023 API NO: 47-051-02464 DRAWN BY: Z. WOOD SCALE: 1" = 2000' DRAWING NO: 2017-154 WELL LOCATION PLAT
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2041'
 6013'
 LONGITUDE: 80°32'30" BOTTOM HOLE (2000' SCALE)
 LONGITUDE: 80°35' SURFACE HOLE (2000' SCALE)



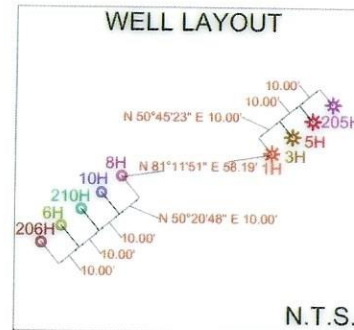
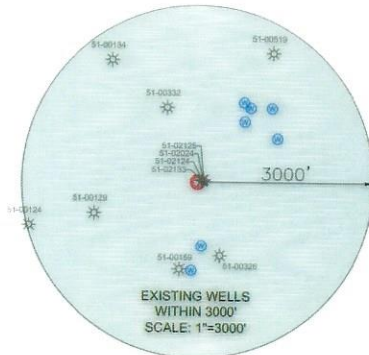
www.jhacompanies.com

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

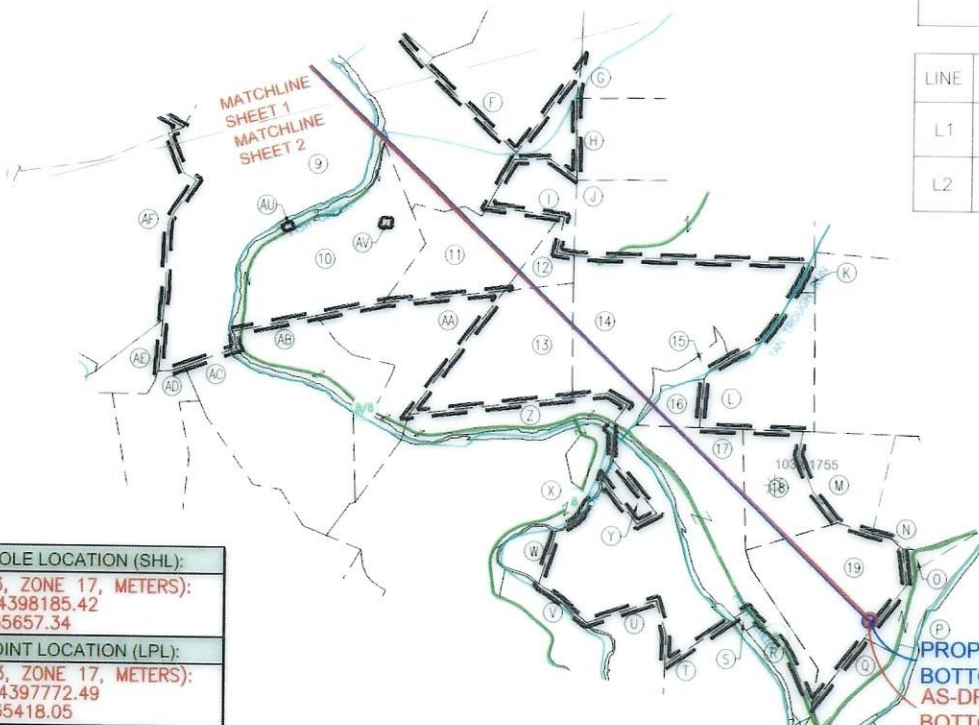
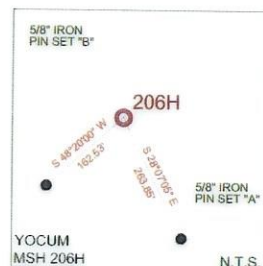
NOTES ON SURVEY

1. COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
5. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
6. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
7. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.

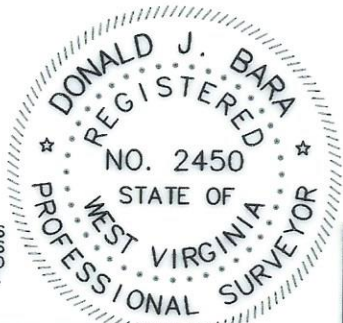
LATITUDE: 39°45' SURFACE HOLE (2000' SCALE) 126'
LATITUDE: 39°42'30" BOTTOM HOLE (2000' SCALE) 2327'



LINE	BEARING	DISTANCE
L1	N51°19'40"W	2230.01'
L2	N15°17'19"E	2590.04'



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4398185.42 EASTING: 535657.34
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4397772.49 EASTING: 535418.05
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4394815.35 EASTING: 538561.07
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4398185.59 EASTING: 535657.52
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4397823.83 EASTING: 535357.17
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4394819.88 EASTING: 538565.68



COMPANY: **SWN** Production Company, LLC

YOCUM MSH
OPERATOR'S WELL #: 206H
API WELL #: 47 051 02464
STATE COUNTY PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW
WATERSHED: UPPER OHIO SOUTH
DISTRICT: LIBERTY COUNTY: MARSHALL
SURFACE OWNER: JOSEPH LEE AND MICHAEL D. YOCUM
OIL & GAS ROYALTY OWNER: JOSEPH LEE AND MICHAEL D. YOCUM
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 03/15/2024
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,282' TVD 22,121' TMD

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

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



(+) 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 SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

LEGEND:



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

REVISIONS:

NO.	DATE	DESCRIPTION
1	05-03-2023	DATE: 05-03-2023
2		API NO: 47-051-02464
3		DRAWN BY: Z. WOOD
4		SCALE: 1" = 2000'
5		DRAWING NO: 2017-154
6		WELL LOCATION PLAT

WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	YOCUM JOSEPH LEE & MICHAEL D	7-26-9
TRACT	SURFACE OWNER	TAX PARCEL
2	YOCUM JOSEPH LEE & MICHAEL D	7-27-4
3	YOCUM JOSEPH LEE & MICHAEL D	7-27-5
4	OCHSENBEIN RICHARD L	7-27-9
5	BURGE DELORES E ET AL	7-27-10
6	VELLEKOOP PETER B ET UX - TOD	7-27-13
7	WV STATE COMMERCE BUREAU OF	1-2-6
8	SEIDLER EARL DALE & NETTIE	1-2-6.1
9	SEIDLER E DALE & NETTIE L	1-2-6.2
10	SEIDLER E DALE & NETTIE L	1-5-10
11	BLACKROCK ENTERPRISES LLC	1-6-1
12	UNKNOWN	UNKNOWN
13	WILLIAMS JOHN E HRS	1-6-4
14	MCGUFFIE ARCH	1-6-5
15	MILLIKEN KEVIN R ETAL	1-6-6
16	CONSOLIDATED GAS TRANS CORP	3-1-7
17	S&R INVESTMENTS	3-1-23
18	PHILLIPS JR CHARLES R	3-1-22
19	CONSOLIDATED GAS TRANSMISSION	3-1-29
ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	STIPETICH SUSAN F & FRANK R	7-27-4.2
B	YOCUM MICHAEL DAVID ET AL	7-27-4.1
C	HIGH PHILIP D	7-27-8
D	VELLEKOOP PETER B ET UX - TOD	7-27-11
E	W VA WILDLIFE RESOURCES	7-24-1
F	WILLIAMS KATHERINE E TRUST	1-3-1
G	ABEREGG D W EST & ABEREGG WILLIAM D ETAL L/E ABEREGG DA	1-3-2
H	WILLIAMS LONNIE L	1-3-7
I	CONSOLIDATED GAS TRANSMISSION	1-3-5
J	WILLIAMS JOHN EDWARD	1-3-8
K	CBC HOLDINGS LLC	3-1-8.1
L	MILLIKEN KEVIN R ETAL	3-1-8
M	CONSOLIDATED GAS TRANS CORP	3-1-21
N	CONSOLIDATED GAS TRANS CORP	3-1-20
O	CONSOLIDATED GAS TRANSMISSION	3-1-31
P	CONSOLIDATED GAS TRANSMISSION	3-1-32
Q	CONSOLIDATED GAS TRANS CORP	3-1-30
R	CONSOLIDATED GAS TRANS CORP	3-1-28
S	CONSOLIDATED GAS TRANS CORP	3-1-27
T	CONSOLIDATED GAS TRANS CORP	3-1-26
U	S&R INVESTMENTS	3-1-25
V	S&R INVESTMENTS	1-6-11
W	SHOWALTER THOMAS HRS	3-1-24
X	BLAKE GAY KAREN & JOSEPH F	1-6-7
Y	S&R INVESTMENTS	1-6-10
Z	BERRY LAWRENCE C & DOROTHY J	1-6-8
AA	SEIDLER E DALE & NETTIE L	1-6-3
AB	SEIDLER E DALE & NETTIE L	1-5-11
AC	CONSOLIDATED GAS TRANSMISSION	1-5-18
AD	CONSOLIDATED GAS TRANSMISSION	1-5-17.1
AE	BROWN NEIL A	1-5-9
AF	WV STATE OF COMM BUREAU OF	1-5-9.1
AG	WV STATE COMMERCE BUREAU OF	1-2-12
AH	MCINTIRE STEPHEN ROSS	1-2-5
AI	FERDA BRIAN T ET UX	7-27-15
AJ	FITZSIMMONS SCOTT M ET AL	7-27-14
AK	FERDA BRIAN T ET UX	7-27-16
AL	FERDA BRIAN T ET UX	7-27-16.1
AM	GEHO ANNIE L EST	7-27-21
AN	SCHANCK JOSEPH L	7-27-18
AO	HORNER DELORSE A	7-26-10
AP	CONSOLIDATED GAS SUPPLY CORP	7-26-8
AQ	GEDEON DANIEL D ET UX	7-26-6
AR	VELLEKOOP PETER B ET UX - TOD	7-26-6.1
AS	VELLEKOOP PETER B ET UX - TOD	7-26-6.2
AT	MEADOWDALE UNITED METH CH CEM	7-27-6
AU	SEIDLER E DALE & NETTIE L	1-5-10.1
AV	UNKOWN	UNKNOWN

03/15/2024

REVISIONS:	 		DATE: 05-03-2023
	COMPANY:	OPERATOR'S	DRAWN BY: Z. WOOD
		WELL #:	SCALE: N/A
	DISTRICT:	COUNTY:	DRAWING NO: 2017-154
	LIBERTY	MARSHALL	WELL LOCATION PLAT
		STATE:	
		WV	