

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

API 47 - 095 - 02495 County TYLER District ELLSWORTH  
Quad PADEN CITY Pad Name SPENCER Field/Pool Name \_\_\_\_\_  
Farm name ANN SPENCER Well Number SPENCER 1UH  
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 4,372,419.23 Easting 507,986.77  
Landing Point of Curve Northing 4,372,075.81 Easting 507,758.60  
Bottom Hole Northing 4,374,031.93 Easting 506,585.25

Elevation (ft) 703 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 5/31/2018 Date drilling commenced 6/29/2018 Date drilling ceased 7/25/2018  
Date completion activities began 8/3/2018 Date completion activities ceased 8/16/2018  
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 300' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1,100' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 1,300' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by:  
\_\_\_\_\_

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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	30	24	163	NEW			Y
Surface	24	20	376	NEW	J-55/94.00#		Y; 23 BBLS
Coal	SEE INTERMEDIATE						
Intermediate 1	17.50	13.375	2,099	NEW	J-55/61.0#		Y; 2 BBLS
Intermediate 2	12.250	9.675	9,541	NEW	H-P110/40.0#		Y: 23 BBLS
Intermediate 3							
Production	8.50	5.5	18,795	NEW	P-110/23.0#		N
Tubing		2.875	11,187	NEW	L-80/6.50#		N
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	GROUT TO SURFACE				SURFACE	24
Surface	CLASS A	500	15.60	1.19	595.0	SURFACE	8
Coal	SEE INTERMEDIATE						
Intermediate 1	CLASS H	1,550	2.00	2.00	3100.0	SURFACE	8
Intermediate 2	CLASS H	1,350	15.00	1.17	1580.0	SURFACE	8
Intermediate 3							
Production	CLASS H	3796	15.00	1.19	4517.24	2,940'	24
Tubing							

Drillers TD (ft) 18,795'      Loggers TD (ft) 18,795'  
 Deepest formation penetrated UTICA      Plug back to (ft) \_\_\_\_\_  
 Plug back procedure N/A

Kick off depth (ft) 10,392'

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: 4 CENTRALIZERS - EVERY THIRD JOINT OF CASING  
 INTERMEDIATE: 135 CENTRALIZERS - EVERY THIRD JOINT OF CASING  
 PRODUCTION: 120 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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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE	ATTACHMENT	1		

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
			48 STAGES					
			357,982 BBLS					
			17,827,520 LBS					

Please insert additional pages as applicable.

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>UTICA</u>	<u>10,663'</u> TVD	<u>10,942'</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 6,100 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 19,220 mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water 385 bpd  
 GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	0		0		
BASE FRESHWATER	300'	300'			
SALTWATER	1,100'	2,000'			
COAL	1,300'	1,800'			
UTICA	10,663'		10,942'		

Please insert additional pages as applicable.

Drilling Contractor H & P #611  
 Address 5401 S. HATTIE AVE. City OKLAHOMA CITY State OK Zip 73129

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 STINGRAY ENERGY SERVICES  
 Address 66680 EXECUTIVE DR. City BELMONT State OH Zip 43718

Please insert additional pages as applicable.

Completed by CAROL A. PRUITT Telephone 832-796-3007  
 Signature *Carol A. Pruitt* Title SR. REGULATORY SPECIALIST Date 10/21/2024