

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
AUG 03 2017
WV Department of Environmental Protection

API 47-009-00172 County BROOKE District BUFFALO
Quad STEUBENVILLE Pad Name RUSSELL HERVEY-BRK-PAD1 Field/Pool Name PANHANDLE FIELD
Farm name RUSSELL D. HERVEY & LISA K. HERVEY Well Number RUSSELL HERVEY BRK 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 4,456,501.097 Easting 537,713.313
Landing Point of Curve Northing 4,456,492.764 Easting 537,857.197
Bottom Hole Northing 4,453,753.737 Easting 538,764.601

Elevation (ft) 1,166' 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 1/15/2016 Date drilling commenced 7/27/2016 Date drilling ceased 8/25/2016
Date completion activities began 4/05/2017 Date completion activities ceased 5/07/2017
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 221' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 881' Void(s) encountered (Y/N) depths N
Coal depth(s) 25' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

APPROVED

NAME: Eric Bleed
DATE: 9/12/17

Reviewed by: _____

API 47-009 - 00172 Farm name RUSSELL D. HERVEY & LISA K. HERVEY Well number RUSSELL HERVEY BRK 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	126	NEW	K-55/94#		Y; 5 BBLS RETURNED
Surface	17.5	13.375	391	NEW	H-40/48#		Y; 17 BBLS RETURNED
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	2070	NEW	J-55/36#		Y; 41 BBLS RETURNED
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	15644	NEW	HCP-110/20#		Y
Tubing		2.375	6171	NEW	P-110/4.7#		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	150		1.20	180	SURFACE	24
Surface	CLASS A	411	15.60	1.20	493.2	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	800	15.60	1.20	960.	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	810/1990	15.60	1.23/1.19	996.3/2368.1	SURFACE	24
Tubing							

Drillers TD (ft) 15,644' Loggers TD (ft) 15,644'
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure _____

Kick off depth (ft) 5,221'

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: 7 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 INTERMEDIATE: 24 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 PRODUCTION: 181 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- 009 - 00172 Farm name RUSSELL D. HERVEY & LISA K. HERVEY Well number RUSSELL HERVEY BRK 210H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>MARCELLUS</u>	<u>5877.70'</u> TVD	<u>6229.06'</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1150 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 2661 mcfpd Oil 315 bpd NGL _____ bpd Water 17 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	
	<u>0</u>		<u>0</u>		
	<u>SEE</u>	<u>ATTACHMENT</u>	<u>3</u>		

Please insert additional pages as applicable.

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

Logging Company NINE ENERGY
Address 16945 NORTHCASE DRIVE, STE 1600 City HOUSTON State TX Zip 77060

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

Stimulating Company KEANE
Address 2121 SAGE ROAD City HOUSTON State TX Zip 77056

Please insert additional pages as applicable.

Completed by DENISE GRANTHAM Telephone 832-796-6139
Signature *Denise Grantham* Title REGULATORY TECHNICIAN Date 8/2/2017

RUSSELL HERVEY BRK 210H
PERF SUMMARY

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	3/25/2017	14,880	15,064	42
2	3/26/2017	14,624	14,818	42
3	3/26/2017	14,368	14,562	42
4	3/26/2017	14,112	14,306	42
5	3/27/2017	13,856	14,050	42
6	3/27/2017	13,600	13,794	42
7	3/27/2017	13,344	13,538	42
8	3/29/2017	13,088	13,282	42
9	3/29/2017	12,832	13,026	42
10	3/29/2017	12,576	12,770	42
11	3/30/2017	12,320	12,514	42
12	3/30/2017	12,064	12,258	42
13	3/30/2017	11,808	12,002	42
14	3/31/2017	11,552	11,746	42
15	3/31/2017	11,296	11,490	42
16	3/31/2017	11,040	11,234	42
17	3/31/2017	10,784	10,978	42
18	4/1/2017	10,528	10,722	42
19	4/1/2017	10,272	10,466	42
20	4/1/2017	10,016	10,210	42
21	4/2/2017	9,760	9,954	42
22	4/2/2017	9,504	9,698	42
23	4/2/2017	9,248	9,442	42
24	4/2/2017	8,992	9,186	42
25	4/2/2017	8,736	8,930	42
26	4/3/2017	8,480	8,674	42
27	4/3/2017	8,224	8,418	42
28	4/3/2017	7,968	8,162	42
29	4/3/2017	7,712	7,906	42
30	4/3/2017	7,456	7,650	42
31	4/3/2017	7,200	7,394	42
32	4/4/2017	6,944	7,138	42
33	4/4/2017	6,688	6,882	42
34	4/4/2017	6,432	6,626	42

RUSSELL HERVEY BRK 210H
FRAC STAGE SUMMARY

STAGE NUM	Stim 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
1	3/25/2017	92	7,763	8,136	4,374	494,960	9,597	
2	3/26/2017	88	7,698	9,266	4,030	496,160	7,469	
3	3/26/2017	93	7,741	8,243	4,467	501,500	7,501	
4	3/26/2017	99	8,055	8,547	4,463	499,200	7,505	
5	3/27/2017	95	7,716	8,848	4,152	498,730	7,437	
6	3/27/2017	91	7,773	8,572	4,402	494,200	7,822	
7	3/27/2017	99	8,157	8,594	4,320	502,850	7,442	
8	3/29/2017	98	7,961	8,876	4,413	499,420	7,342	
9	3/29/2017	99	7,915	8,765	4,560	500,350	7,409	
10	3/29/2017	96	7,801	9,152	4,556	495,500	7,484	
11	3/30/2017	98	8,252	8,694	4,352	498,120	7,267	
12	3/30/2017	98	7,424	8,655	4,363	500,000	7,283	
13	3/30/2017	99	7,714	8,372	4,402	496,570	7,452	
14	3/31/2017	99	7,356	8,057	4,631	497,130	7,326	
15	3/31/2017	95	8,043	8,862	4,359	500,520	7,091	
16	3/31/2017	100	7,710	8,755	4,392	498,700	7,069	
17	3/31/2017	98	7,591	8,816	4,467	500,160	7,028	
18	4/1/2017	99	7,078	7,364	4,438	495,760	7,170	
19	4/1/2017	100	7,173	8,057	4,610	502,290	7,044	
20	4/1/2017	100	7,240	7,524	4,674	503,690	7,226	
21	4/2/2017	100	7,708	8,830	4,563	501,040	6,863	
22	4/2/2017	101	7,361	8,640	4,907	500,210	6,955	
23	4/2/2017	101	7,557	8,622	4,252	500,440	6,897	
24	4/2/2017	99	6,969	7,803	4,728	500,240	6,998	
25	4/2/2017	97	6,932	7,521	4,481	498,980	6,977	
26	4/3/2017	100	6,998	7,353	4,631	499,520	6,888	
27	4/3/2017	102	6,877	8,607	4,573	495,580	6,871	
28	4/3/2017	101	7,075	8,777	4,627	501,440	6,783	
29	4/3/2017	100	6,632	7,625	4,488	502,330	6,852	
30	4/3/2017	101	6,659	7,732	4,556	502,430	6,831	
31	4/3/2017	101	6,708	7,449	4,928	500,480	7,321	
32	4/4/2017	101	6,573	7,466	4,390	495,140	6,685	
33	4/4/2017	100	6,559	7,792	4,097	502,460	6,632	
34	4/4/2017	98	6,385	8,946	4,401	496,500	6,683	

Well Name:

RUSSELL HERVEY BRK 210H

47009001720000

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	NA	NA	221.00	221.00	
Top of Salt Water	881.00	880.87	NA	NA	
Pittsburgh Coal	255.00	255.00	260.00	255.00	
Big Injun (ss)	1570.00	1567.22	1584.00	1584.14	
Berea (siltstone)	1914.00	1909.19	1932.00	1909.19	
Rhinestreet (shale)	5462.00	5319.16	5719.90	5558.98	
Cashaqua (shale)	5719.90	5558.98	5789.70	5618.34	
Middlesex (shale)	5789.70	5618.34	5863.89	5676.32	
Burket (shale)	5863.89	5676.32	5887.21	5693.67	
Tully (ls)	5887.21	5693.67	5974.86	5754.11	
Mahantango (shale)	5974.86	5754.11	6229.06	5877.70	
Marcellus (shale)	6229.06	5877.70	NA	NA	GAS

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/25/2017
Job End Date:	4/4/2017
State:	West Virginia
County:	Brooke
API Number:	47-009-00172-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	Russel Hervey BRK 210H
Latitude:	40.25808400
Longitude:	-80.55658300
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,043
Total Base Water Volume (gal):	10,159,778
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
Water	Southwestern Energy	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	82.27203	
Sand	U.S. Well Services, LLC	Proppant					
			Crystalline Silica, quartz	14808-60-7	100.00000	16.47974	
HCL Acid (12.6%-17.5%)	U.S. Well Services, LLC	Bulk Acid					
			Water	7732-18-5	87.40000	0.98279	
			Hydrogen Chloride	7647-01-0	17.50000	0.22850	
WFRA-2000	U.S. Well Services, LLC	Friction Reducer					
			2-Propenoic acid, polymer with 2 propenamide	9003-06-9	30.00000	0.01990	
			Hydrated light distillate (petroleum)	64742-47-8	30.00000	0.01632	
AI-303	U.S. Well Services, LLC	Acid Corrosion Inhibitors					
			Ethylene glycol	107-21-1	40.00000	0.00032	
			Cinnamaldehyde	104-55-2	20.00000	0.00012	
			Formic acid	64-18-6	20.00000	0.00011	
			Butyl cellosolve	111-76-2	20.00000	0.00010	

THRASHER

THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
PHONE 304-624-4108

NOTES ON SURVEY

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

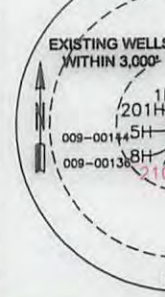
GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT

SWN PRODUCTION COMPANY, LLC
"RUSSELL HERVEY BRK 210H"
SURFACE HOLE
ELEV: 1166'

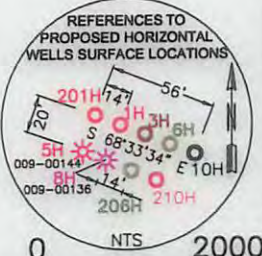
Latitude: 39°14'57" 4,232' 190'

Longitude: 84°50'34" 20,319'

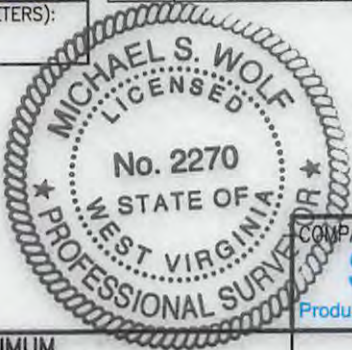
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	(S)RUSSELL D. HERVEY (R)RUSSELL D. HERVEY & LISA K. HERVEY	05-03-828-0045-0000	37.84
2	(S)BROOKE COUNTY PARK COMMISSION (R)RICHARD P. GIST (R)MARGINA GIST ABLITT (R)JANN GIST LEVIN	05-03-828-0064-0000	135.00
3	(S)STARVAGGI INDUSTRIES (R)STARVAGGI INDUSTRIES	05-03-828-0082-0000 05-03-828-0083-0000	3.85 16.88
4	(S)BROOKE COUNTY PARK COMMISSION (R)JAMES ROBERT HERVEY & KAREN L. HERVEY (R)WILLIAM JUDDSON HERVEY II & THERESA J. HERVEY (R)FRED L. HERVEY & CATHY JO HERVEY (R)MARY KATHRYN HERVEY DEGARMO & ALAN H. DEGARMO (R)RUSSELL D. HERVEY & LISA K. HERVEY (R)BROOKE COUNTY PARK & RECREATION COMMISSION	05-03-828-0080-0000	101.81
5	(S)PHOENIX-GREENLAWN PARTNERS (R)JAMES ROBERT HERVEY & KAREN L. HERVEY (R)WILLIAM JUDDSON HERVEY II & THERESA J. HERVEY (R)FRED L. HERVEY & CATHY JO HERVEY (R)MARY KATHRYN HERVEY DEGARMO & ALAN H. DEGARMO (R)RUSSELL D. HERVEY & LISA K. HERVEY	05-30-833-0113-0000	101.55
6	(S)STARVAGGI INDUSTRIES (R)JAMES ROBERT HERVEY & KAREN L. HERVEY (R)WILLIAM JUDDSON HERVEY II & THERESA J. HERVEY (R)FRED L. HERVEY & CATHY JO HERVEY (R)MARY KATHRYN HERVEY DEGARMO & ALAN H. DEGARMO (R)RUSSELL D. HERVEY & LISA K. HERVEY	05-03-833-0026-0000	53.58
7	(S)JAMES H. STEWART (R)JAMES H. STEWART & PAMELA JO STEWART	05-03-833-0031-0000	141.88
8	(S)CHARLES L. & LAURA J. MCGOWAN (R)LAURA G. INMAN AND JAMES C. INMAN JR. (R)KAREN G. YOUNKINS & TERRY D. YOUNKINS	05-03-833-0107-0002	1.01
9	(S)CHARLES L. & LAURA J. MCGOWAN (R)LAURA G. INMAN AND JAMES C. INMAN JR. (R)KAREN G. YOUNKINS & TERRY D. YOUNKINS	05-03-833-0107-0001	1.00
10	(S)JOHN C. WALES, SR. (R)JOHN C. WALES, SR. & BARBARA A. WALES	05-03-833-0110-0000	24.47
11	(S)MARLENE K. HUKILL (R)LAURA G. INMAN AND JAMES C. INMAN JR. (R)KAREN G. YOUNKINS & TERRY D. YOUNKINS	05-03-833-0109-0000	30.00
12	(S)DENZIL H. L. CONLEY & MARY LOU CONLEY (R)LAURA G. INMAN AND JAMES C. INMAN JR. (R)KAREN G. YOUNKINS & TERRY D. YOUNKINS	05-03-833-0108-0000	120.73
13			



LINE	DESCRIPTION	DISTANCE
L1	N 43°04'25" W	38.81'
L2	N 68°10'56" W	36.00'
L3	N 70°19'04" W	3703.74'
L4	N 32°43'01" W	2697.75'
L5	N 84°45'14" E	1090.30'
L6	S 20°21'58" E	8687.40'



LOCATION	UTM (NAD83, ZONE 17, METERS):
SURFACE HOLE LOCATION (SHL):	NORTHING: 4,456,496.949 EASTING: 537,707.098
LANDING POINT LOCATION (LPL):	NORTHING: 4,456,526.710 EASTING: 538,038.087
BOTTOM HOLE LOCATION (BHL):	NORTHING: 4,454,044.313 EASTING: 538,959.612



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. 2270 *MSW 6/20/17*

(+) 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)	RUSSELL HERVEY BRK OPERATOR'S WELL #: 210H API WELL #: 47 009 00172 STATE COUNTY PERMIT
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WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: BUFFALO CREEK ELEVATION: 1166'

DISTRICT: BUFFALO COUNTY: BROOKE QUADRANGLE: STEUBENVILLE EAST

SURFACE OWNER: RUSSELL D. HERVEY ACREAGE: ±37.84

OIL & GAS ROYALTY OWNER: RUSSELL D. HERVEY & LISA K. HERVEY ACREAGE: ±37.84

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: 6,043' TVD 15,182' IMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: P.O. BOX 1300 CITY: JANE LEW STATE: WV ZIP CODE: 26378	DESIGNATED AGENT: DEE SOUTHALL ADDRESS: P.O. BOX 1300 CITY: JANE LEW STATE: WV ZIP CODE: 26378
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LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ✖ EXISTING / PRODUCING WELLHEAD ✖ ABANDONED WELL ✖ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR	REVISIONS: --- LEASE BOUNDARY --- AS-DRILLED PATH --- PROPOSED PATH --- ABANDONED PATH	DATE: 06-27-2017 DRAWN BY: R.DOERR SCALE: 1" = 2000' DRAWING NO: 050-5495 WELL LOCATION PLAT
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THRASHER

THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
PHONE 304-624-4108

TRACT	ADJOINER	PARCEL
A	WILLIAM JUDSON HERVEY, III	05-03-B28-0045-0002
B	DONALD AND JANICE EATON	05-03-B28-0057-0000
C	BERNARD J. KNORR, III AND NICOLE C. KNORR	05-03-B28-0057-0002
D	BERNARD J. KNORR, III AND NICOLE C. KNORR	05-03-B28-0059-0000
E	BROOKE COUNTY COURT	05-03-B28-0065-0000
F	BROOKE COUNTY COURT	05-03-B28-0061-0000
G	BROOKE COUNTY PARK COMMISSION	05-03-B33-0117-0000
H	KEITH R. & KATHY J SMITH	05-03-B34-0016-0001
I	KEITH R. & KATHY J SMITH	05-03-B33-0114-0000
J	BRIAN K. SMITH	05-03-B33-0114-0001
K	BARBARA A WALES	05-03-B34-0017-0000
L	MARK W. OWEN & VIRGINIA B. KREUTZ	05-03-B34-0049-0000
M	CHARLES R. CORBIN, JR., ET AL	05-03-B33-0102-0000
N	CHARLES R. CORBIN, JR.	05-03-B33-0103-0000
O	CHARLES R. CORBIN, JR. & MARGARET L. CORBIN	05-03-B33-0104-0000
P	MARGARET E. CORBIN	05-03-B33-0105-0000
Q	HENRY E. DONLEY, IV & YVONNE CAWTHORNE	05-03-B33-0106-0000
R	SARA M. MAGLIETTA	05-03-B33-0111-0000
S	CARL J. MAGLIETTA, JR. & TINA D. MAGLIETTA	05-03-B33-0111-0001
T	JOHN T. & SALLY J. MILLER	05-03-B33-0112-0000
U	JAMIE D. BURNS	05-03-B33-0107-0006
V	JAMIE D BURNS	05-03-B33-0107-0005
W	DON KOSCEVIC, ET AL	05-03-B33-0107-0000
X	CHARLES L. & LAURA J MCGOWAN	05-03-B33-0107-0004
Y	CHARLES L. & LAURA J MCGOWAN	05-03-B33-0107-0003
Z	MELVIN & DORIS CULBERTSON	05-03-B33-0096-0000
AA	PHOENIX-GREENLAWN PARTNERS, LP	05-03-B33-0035-0000
AB	PHOENIX-GREENLAWN PARTNERS, LP	05-03-B33-0034-0000
AC	SHARON CUNNINGHAM	05-03-B33-0030-0000
AD	DONALD M. & JANICE F. EATON	05-03-B33-0033-0000
AE	SHARON CUNNINGHAM	05-03-B33-0033-0001
AF	SHARON CUNNINGHAM	05-03-B33-0032-0000
AG	PHOENIX-GREENLAWN PARTNERS, LP	05-03-B33-0029-0000
AH	THEODORE E. & MELISSA A. EATON	05-03-B33-0028-0000
AI	STELLA MERWICK	05-03-B33-0027-0000
AJ	STARVAGGI INDUSTRIES	05-03-B33-0025-0000
AK	MICHAEL WHITCO, ET AL	05-03-B28-0043-0000

COMPANY:
SWN **SWN** *R+V+*
Production Company, LLC Production Company™

REVISIONS:	DATE: 06-27-2017
	SHEET 2 OF 2
	DRAWN BY: R.DOERR
	SCALE: 1" = 2000'
	DRAWING NO: 050-5495
	WELL LOCATION PLAT

TRACT	ADJOINER	PARCEL
AK	MICHAEL WHITCO, ET AL	02-03-B28-0043-0000
AJ	STARVAGGI INDUSTRIES	02-03-B33-0025-0000
AI	STELLA MERWICK	02-03-B33-0027-0000
AH	THEODORE E. & MELISSA A. EATON	02-03-B33-0028-0000
AG	PHOENIX-GREENLAW PARTNERS, LP	02-03-B33-0029-0000
AF	SHARON CUNNINGHAM	02-03-B33-0032-0000
AE	SHARON CUNNINGHAM	02-03-B33-0033-0001
AD	DONALD M. & JANICE F. EATON	02-03-B33-0033-0000
AC	SHARON CUNNINGHAM	02-03-B33-0030-0000
AB	PHOENIX-GREENLAW PARTNERS, LP	02-03-B33-0034-0000
AA	PHOENIX-GREENLAW PARTNERS, LP	02-03-B33-0035-0000
AZ	MELVIN & DORIS CULBERTSON	02-03-B33-0086-0000
AY	CHARLES L. & LAURA J MCGOWAN	02-03-B33-0107-0003
AX	CHARLES L. & LAURA J MCGOWAN	02-03-B33-0107-0004
AW	DON KOSCEVIC, ET AL	02-03-B33-0107-0000
AV	JAMIE D BURNS	02-03-B33-0107-0002
AU	JAMIE D BURNS	02-03-B33-0107-0008
AT	JOHN T. & SALLY J. MILLER	02-03-B33-0112-0000
AS	CARL J. MAGLIETTA, JR. & TINA D. MAGLIETTA	02-03-B33-0111-0001
AR	SARA M. MAGLIETTA	02-03-B33-0111-0000
AQ	HENRY E. DONLEY, IV & YVONNE CAWTHORNE	02-03-B33-0108-0000
AP	MARGARET E. CORBIN	02-03-B33-0102-0000
AO	CHARLES R. CORBIN, JR. & MARGARET L. CORBIN	02-03-B33-0104-0000
AN	CHARLES R. CORBIN, JR.	02-03-B33-0103-0000
AM	CHARLES R. CORBIN, JR., ET AL	02-03-B33-0102-0000
AL	MARK W. OWEN & VIRGINIA B. KREUTZ	02-03-B34-0049-0000
AK	BARBARA A WALEZ	02-03-B34-0017-0000
AL	BRIAN K. SMITH	02-03-B33-0114-0001
AI	KEITH R. & KATHY J SMITH	02-03-B33-0114-0000
AH	KEITH R. & KATHY J SMITH	02-03-B34-0016-0001
AG	BROOKE COUNTY PARK COMMISSION	02-03-B33-0117-0000
AF	BROOKE COUNTY COURT	02-03-B28-0061-0000
AE	BROOKE COUNTY COURT	02-03-B28-0065-0000
AD	BERNARD J. KNORR, III AND NICOLE C. KNORR	02-03-B28-0029-0000
AC	BERNARD J. KNORR, III AND NICOLE C. KNORR	02-03-B28-0027-0002
AB	DONALD AND JANICE EATON	02-03-B28-0045-0002
AA	WILLIAM LUDSON HERVEY, III	02-03-B28-0045-0002

COMPANY: **swm** swm
Production Company, LLC Production Company™

REVISIONS:	DATE:
	08-27-2017
	SHEET 2 OF 2
	DRAWN BY: R.DORR
	SCALE: 1" = 200'
	DRAWING NO: 020-2492
	SIT LOCATION PLAN