

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

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Office of Oil and Gas

JUN 9 2017

WV Department of
Environmental Protection

API 47 - 009 - 00165 County BROOKE District BUFFALO
Quad STEBENVILLE EAST & BETHANY Pad Name BROOKE COUNTY PARKS-BRK-PAD1 Field/Pool Name PANHANDLE FIELD
Farm name BROOKE CO. PARKS COMMISSION Well Number BROOKE COUNTY PARKS 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 4,456,762.235 Easting 538,454.038
Landing Point of Curve Northing 4,456,839.182 Easting 538,905.893
Bottom Hole Northing 4,455,525.574 Easting 539,377.371

Elevation (ft) 1206' 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 12/10/2015 Date drilling commenced 11/17/2016 Date drilling ceased 11/28/2016
Date completion activities began 03/02/2017 Date completion activities ceased 03/31/2017
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 250' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1126' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 316' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

APPROVED

NAME: Eric Beard Reviewed by:
DATE: 11-8-17 01/05/2018

API 47-009 - 00165 Farm name BROOKE CO. PARKS COMMISSION Well number BROOKE COUNTY PARKS 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	J-55/94#		Y
Surface	17.5	13.375	356	NEW	H-40/48#		Y
Coal	SURFACE						
Intermediate 1	12.25	9.625	1688	NEW	J-55/36#		Y
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	11269	NEW	HCP-110/20#		Y
Tubing		2.375	6424	NEW	L-80/4.7#		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	17.0		150	SURFACE	24
Surface	CLASS A	390	15.6	1.20	468	SURFACE	8
Coal	SURFACE						
Intermediate 1	CLASS A	660	15.6	1.2	792	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	866/1130	15.60	1.23/1.19	1065.18/1344.70	SURFACE	24
Tubing							

Drillers TD (ft) 11269' Loggers TD (ft) 11269'
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure _____

Kick off depth (ft) 5481'

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 _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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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)
		SEE	ATTACHMENT	2				
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Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS	
<u>MARCELLUS</u>	<u>5932.72'</u> TVD	<u>6366.77'</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1300 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 1748 mcfpd Oil 236 bpd NGL _____ bpd Water 283 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 ₂ S, ETC)
	<u>0</u>		<u>0</u>		
	<u>SEE</u>	<u>ATTACHMENT</u>	<u>3</u>		
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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 GROGAN MILLS 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 US WELL SERVICES
Address 770 S POST OAK LN #405 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 6/8/2017

Well Name:

BROOKE COUNTY PARKS BRK 210H

47009001650000

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	N/A	N/A	250.00	250.00	
Top of Salt Water	1126.00	1126.00	N/A	N/A	
Pittsburgh Coal	316.00	316.00	321.00	321.00	
Big Injun (ss)	1425.00	1421.86	1632.00	1626.26	
Berea (siltstone)	1976.00	1962.99	5592.13	5374.34	
Rhinestreet (shale)	5592.13	5374.34	5854.04	5613.96	
Cashaqua (shale)	5854.04	5613.96	5921.72	5670.90	
Middlesex (shale)	5921.72	5670.90	5995.17	5728.52	
Burket (shale)	5995.17	5728.52	6018.10	5745.14	
Tully (ls)	6018.10	5745.14	6107.66	5807.00	
Mahantango (shale)	6107.66	5807.00	6366.77	5932.72	
Marcellus (shale)	6366.77	5932.72	N/A	N/A	GAS

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BROOKE COUNTY PARKS BRK 210H
PERF SUMMARY

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	3/2/2017	10,964	11,164	42
2	3/14/2017	10,700	10,902	42
3	3/14/2017	10,436	10,636	42
4	3/14/2017	10,172	10,372	42
5	3/15/2017	9,908	10,108	42
6	3/15/2017	9,644	9,844	42
7	3/15/2017	9,380	9,580	42
8	3/16/2017	9,116	9,316	42
9	3/16/2017	8,852	9,052	42
10	3/16/2017	8,588	8,788	42
11	3/16/2017	8,324	8,524	42
12	3/16/2017	8,060	8,260	42
13	3/18/2017	7,796	7,996	42
14	3/19/2017	7,532	7,732	42
15	3/19/2017	7,268	7,868	103
16	3/19/2017	7,001	7,204	42
17	3/19/2017	6,740	6,940	42
18	3/19/2017	6,476	6,676	42

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BROOKE COUNTY PARKS 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	3/2/2017	97	7,337	8,331	3,819	500,560	8,140	
2	3/14/2017	96	7,486	7,879	4,267	507,800	7,219	
3	3/14/2017	92	7,003	7,482	4,095	507,680	7,031	
4	3/14/2017	98	7,358	7,771	4,442	506,060	6,989	
5	3/15/2017	99	7,815	8,562	4,195	491,020	7,303	
6	3/15/2017	100	7,606	8,318	4,320	498,500	6,951	
7	3/15/2017	96	7,143	7,453	4,674	501,220	6,930	
8	3/16/2017	98	7,330	7,682	4,456	503,320	6,936	
9	3/16/2017	96	7,348	8,733	4,159	509,220	6,807	
10	3/16/2017	99	7,653	8,225	4,284	505,040	6,815	
11	3/16/2017	100	7,129	7,596	4,066	501,720	6,790	
12	3/16/2017	100	6,821	7,267	4,410	494,520	6,829	
13	3/18/2017	95	6,602	6,888	4,610	496,240	6,730	
14	3/19/2017	100	6,960	7,192	4,417	503,960	6,678	
15	3/19/2017	101	6,963	7,410	4,070	510,640	6,662	
16	3/19/2017	101	7,149	8,057	4,256	509,500	6,647	
17	3/19/2017	100	6,937	8,025	4,399	509,640	6,591	
18	3/19/2017	100	6,485	7,263	4,195	495,980	6,673	

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/2/2017
Job End Date:	3/19/2017
State:	West Virginia
County:	Brooke
API Number:	47-009-00165-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	Brook County BRK 210H
Latitude:	40.26044000
Longitude:	-80.54778400
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,030
Total Base Water Volume (gal):	5,159,334
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
Water	Southwestern Energy	Carrier/Base Fluid	Water	7732-18-5	100.00000	81.51084	
Sand	U.S. Well Services, LLC	Proppant	Crystalline Silica, quartz	14808-60-7	100.00000	17.14865	
HCL Acid (12.6%-17.5%)	U.S. Well Services, LLC	Bulk Acid	Water	7732-18-5	87.40000	1.03457	
			Hydrogen Chloride	7647-01-0	17.50000	0.24054	
WFRA-2000	U.S. Well Services, LLC	Friction Reducer	Water	7732-18-5	60.00000	0.03385	
			2-Propenoic acid, polymer with 2 propenamide	9003-06-9	30.00000	0.01693	
			Hydrated light distillate (petroleum)	64742-47-8	30.00000	0.01388	
AI-303	U.S. Well Services, LLC	Acid Corrosion Inhibitors	Ethylene glycol	107-21-1	40.00000	0.00033	
			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
			Polyether	30828-78-6	10.00000	0.00006
			Acetophenone,thiourea,formaldehyde polymer	68527-49-1	5.00000	0.00003
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.						

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

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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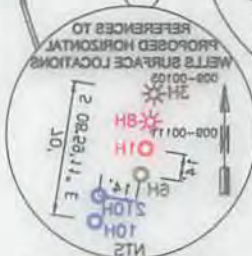
THRASHER

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

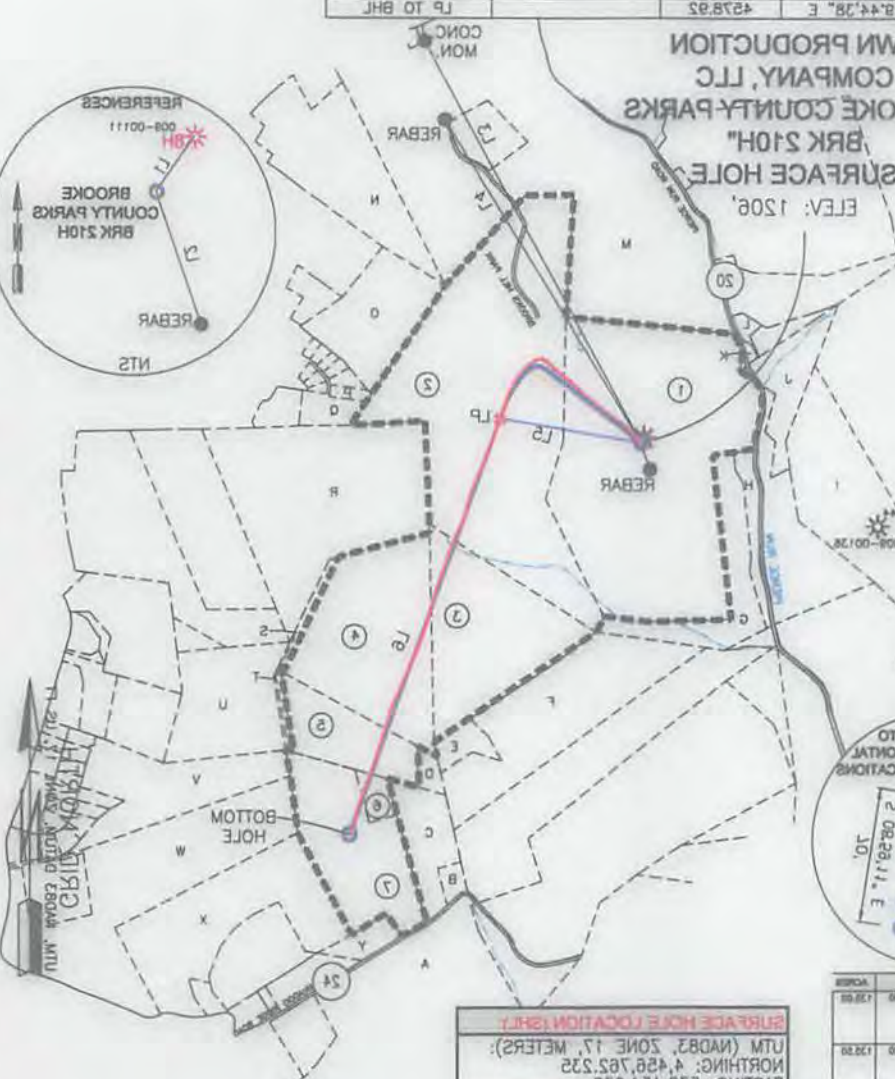
- NOTES ON SURVEY**
- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
 - SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
 - THIS PLAN DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 - NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED 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.

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 24°29'22" W	48.89'	SHL TO REF. PNT. BRK BH 408-00111	
L2	S 18°21'58" W	292.97'	SHL TO REF. PNT. REBAR SET	
L3	N 28°36'23" E	478.27'	SHL TO LANDMARK CONG. MONUMENT	
L4	N 31°30'28" E	288.02'	SHL TO LANDMARK REBAR FOUND	
LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L5	N 80°20'09" E	1503.80'	SHL TO LP	
L6	S 18°44'28" E	427.92'	LP TO BHL	

**"BROOK COUNTY PARKS"
SURFACE HOLE**
BRK 210H
ELEV: 1206'



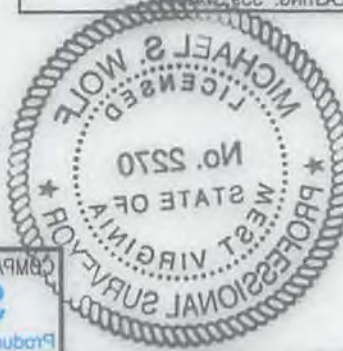
11'380.248' BHL
80.30.00' BOUNDARY



LOCATION	EASTING	NORTHING	UTM (NAD83, ZONE 17, METERS)
BOTTOM HOLE LOCATION (BHL)	238,886.198	4,456,882.210	UTM (NAD83, ZONE 17, METERS)
LANDING POINT LOCATION (LPL)	238,886.198	4,456,882.210	UTM (NAD83, ZONE 17, METERS)
SURFACE HOLE LOCATION (SHL)	238,886.198	4,456,882.210	UTM (NAD83, ZONE 17, METERS)

LOCATION	EASTING	NORTHING	UTM (NAD83, ZONE 17, METERS)
BOTTOM HOLE LOCATION (BHL)	238,886.198	4,456,882.210	UTM (NAD83, ZONE 17, METERS)
LANDING POINT LOCATION (LPL)	238,886.198	4,456,882.210	UTM (NAD83, ZONE 17, METERS)
SURFACE HOLE LOCATION (SHL)	238,886.198	4,456,882.210	UTM (NAD83, ZONE 17, METERS)

WELL #	WELL TYPE	STATUS	DATE
001	WASTE DISPOSAL	PLUGGED & ABANDONED	05-22-01
002	WASTE DISPOSAL	PLUGGED & ABANDONED	05-22-01
003	WASTE DISPOSAL	PLUGGED & ABANDONED	05-22-01
004	WASTE DISPOSAL	PLUGGED & ABANDONED	05-22-01
005	WASTE DISPOSAL	PLUGGED & ABANDONED	05-22-01
006	WASTE DISPOSAL	PLUGGED & ABANDONED	05-22-01
007	WASTE DISPOSAL	PLUGGED & ABANDONED	05-22-01
008	WASTE DISPOSAL	PLUGGED & ABANDONED	05-22-01
009	WASTE DISPOSAL	PLUGGED & ABANDONED	05-22-01
010	WASTE DISPOSAL	PLUGGED & ABANDONED	05-22-01



I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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.

SWN COMPANY
Production Company, LLC Production Company™

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	ADDRESS: P.O. BOX 1300	CITY: JANE LEW	STATE: WV	ZIP CODE: 26328
DESIGNATED AGENT: DEE SOUTHALE	DATE: 05-11-2017	SHEET 1 OF 3	DRAWN BY: K. POTH	SCALE: 1" = 2000'
WELL LOCATION PLAN	DRAWING NO: 050-5523	PROPERTY NUMBER: 2501162308	PHD ID: 2001162823	

WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input type="checkbox"/> DEEP <input type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/>	WATERSHED: BUFFALO CREEK	DISTRICT: BUFFALO	COUNTY: BROOKE	ELEVATION: 1206'
QUADRANGLE: STEUBENSVILLE EAST & BETHWY	SURFACE OWNER: BROOKE COUNTY PARKS COMMISSION	OIL & GAS ROYALTY OWNER: RICHARD P. GIST, VIRGINIA GIST ABLITT, ANN GIST LEVIN	ACREAGE: ±438.27	ACREAGE: ±132.00
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"/>	PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE (SPECIFY) AS-DRILLED <input checked="" type="checkbox"/>	ESTIMATED DEPTH: 2981' TVD (±259' TMD)		

LEGEND:	PROPOSED SURFACE HOLE / BOTTOM HOLE
EXISTING / PRODUCING WELLS	
ABANDONED WELL	
PLUGGED & ABANDONED WELL	
CUT CONDUCTOR	
LEASE BOUNDARY	
PROPOSED PATH	
AS-DRILLED PATH	
ABANDONED PATH	

REVISIONS:	DATE: 05-11-2017
	SHEET 1 OF 3
	DRAWN BY: K. POTH
	SCALE: 1" = 2000'
	DRAWING NO: 050-5523
	PROPERTY NUMBER: 2501162308
	PHD ID: 2001162823

01/05/2018

THRASHER

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

TRACT	ADJOINER	TAX PARCEL
A	JOHN C WALES SR AND BARBARA A WALES	05-03-B34-0017-0000
B	BRIAN SMITH	05-03-B33-0114-0001
C	KEITH R SMITH AND KATHY J SMITH	05-03-B33-0114-0000
D	KEITH SMITH AND KATHY SMITH	05-03-B34-0016-0001
E	BROOKE COUNTY PARK AND RECREATION COMMISSION	05-03-B33-0117-0000
F	BROOKE COUNTY PARK AND RECREATION COMMISSION	05-03-B28-0060-0000
G	STARVAGGI INDUSTRIES	05-03-B28-0063-0000
H	STARVAGGI INDUSTRIES INC.	05-03-B28-0062-0000
I	RUSSELL D HERVEY	05-03-B28-0045-0000
J	BERNARD J. KNORR III & NICHOLE C. KNORR	05-03-B28-0059-0000
K	RUBY FAYE KNORR & BERNARD JOHN KNORR JR	05-03-B28-0058-0000
L	BERNARD J. KNORR JR & RUBY F KNORR	05-03-B28-0057-0001
M	BROOKE COUNTY COURT	05-03-B28-0066-0000
N	JOHN PAUL POTTER; PENNY POTTER SUAVE; JAY M POTTER II	05-03-B29E-0001-0000
O	JOHN G RADVANSKY AND BARBARA J RADVANSKY	05-03-B29J-0007-0000
P	GEORGE GIPALO AND RHODA GIPALO	05-03-B29J-0024-0000
Q	GEORGE GIPALO AND RHODA GIPALO	05-03-B29J-0025-0000
R	BROOKE COUNTY COURT	05-03-B29-0014-0000
S	DAVID L RAGAN	05-03-B34-0001-0001
T	DAVID L RAGAN	05-03-B34-0016-0004
U	WILLOW SPRINGS INC	05-03-B34-0010-0002
V	WILLIAM CURTIS HUNT & SUSAN L HUNT	05-03-B34-0007-0000
W	DELORES JEANNE BUYAN; SARAH LYNN LYCANS STENGER; JUDITH LEE BRINKLEY	05-03-B34-0010-0000
X	NANCY J AMBROSE	05-03-B34-0011-0000
Y	DAVID L RAGAN	05-03-B34-0016-0000

01/05/2018

COMPANY:
SWN **SWN** ^{RE}/_A → V+⁺
Production Company, LLC Production Company™

REVISIONS:	DATE: 05-11-2017
	SHEET 2 OF 3
	DRAWN BY: K. POTH
	SCALE: 1" = 2000'
	DRAWING NO: 050-5525
	WELL LOCATION PLAT