

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

API 47 - 009 - 00193 County BROOKE District BUFFALO
Quad BETHANY Pad Name ALAN H. DEGARMO BRK PAD Field/Pool Name PANHANDLE FIELD WET
Farm name ALAN & MARY KAY DEGARMO Well Number ALAN H. DEGARMO BRK 1H
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 4,455,195.736 Easting 536,377.763
Landing Point of Curve Northing 4,455,191.666 Easting 535,992.230
Bottom Hole Northing 4,456,882.560 Easting 535,205.663

Elevation (ft) 1204 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 Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
SOBM

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Date permit issued 5/31/2017 Date drilling commenced 10/04/2017 Date drilling ceased 12/15/2017
Date completion activities began 02/14/2018 Date completion activities ceased 2/27/2018
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 212 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 428 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 271 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed

[Handwritten signature] 6-11-18

Reviewed by:
[Handwritten signature]
07/20/2018

API 47-009 - 00193 Farm name ALAN & MARY KAY DEGARMO Well number ALAN H. DEGARMO BRK 1H

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	26	20	126	NEW	J-55/94#		Y
Surface	17.5	13.375	373	NEW	J-55/54.50#	264.4' & 245'	Y, 15 BBLs
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	1686	NEW	J-55/36#		Y, 10 BBLs
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	13267	NEW	HCP-110/20#		Y
Tubing		2.375	6665	NEW	P-110/4.7#		N
Packer type and depth set							

Comment Details Packer Element - 257.8'. Packer Element below - 261'

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	247/297	15.60	1.20/1.19	296.4/353.43	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	963	15.60	1.20	1155.6	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2443	15.60	1.19	2907.17	SURFACE	24
Tubing							

Drillers TD (ft) 13267 Loggers TD (ft) 13267
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5080

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 _____

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ALAN H DEGARMO BRK 1H

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	2/14/2018	12,958	13,140	42
2	2/15/2018	12,698	12,895	42
3	2/16/2018	12,438	12,635	42
4	2/16/2018	12,178	12,375	42
5	2/17/2018	11,915	12,115	42
6	2/17/2018	11,658	11,855	42
7	2/18/2018	11,398	11,595	42
8	2/18/2018	11,138	11,335	42
9	2/18/2018	10,878	11,075	42
10	2/18/2018	10,618	10,815	42
11	2/19/2018	10,358	10,555	42
12	2/19/2018	10,098	10,295	42
13	2/19/2018	9,838	10,035	42
14	2/20/2018	9,578	9,775	42
15	2/20/2018	9,318	9,515	42
16	2/20/2018	9,061	9,255	42
17	2/20/2018	8,798	8,995	42
18	2/20/2018	8,538	8,735	42
19	2/20/2018	8,278	8,475	42
20	2/21/2018	8,018	8,215	42
21	3/30/2018	7,758	7,955	42
22	3/30/2018	7,498	7,695	42
23	3/30/2018	7,238	7,435	42
24	2/21/2018	6,978	7,175	42
25	2/21/2018	6,718	6,915	42

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ALAN H DEGARMO BRK 1H
ATTACHMENT 2
STIM REPORT

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	2/15/2018	97	7,855	8,950	4,293	504,020	10,201	
2	2/15/2018	99	8,188	8,649	4,291	496,580	7,492	
3	2/16/2018	100	7,564	8,315	4,395	501,680	7,901	
4	2/17/2018	98	7,858	9,084	4,195	496,820	7,752	
5	2/17/2018	96	7,655	8,646	4,522	505,020	8,706	
6	2/17/2018	98	7,684	8,757	4,413	501,660	7,070	
7	2/18/2018	99	7,597	8,304	4,204	506,980	7,217	
8	2/18/2018	99	7,618	8,714	4,020	492,040	7,390	
9	2/18/2018	98	7,720	9,013	4,276	511,000	8,258	
10	2/19/2018	96	7,126	7,914	4,191	497,900	7,763	
11	2/19/2018	99	7,727	8,631	4,143	490,920	7,632	
12	2/19/2018	98	7,560	8,687	4,238	492,180	7,766	
13	2/20/2018	100	7,490	8,116	4,318	497,020	7,024	
14	2/20/2018	100	7,252	7,581	4,332	497,400	7,208	
15	2/20/2018	100	7,456	8,491	4,051	500,180	7,446	
16	2/20/2018	98	7,252	8,181	4,068	502,280	7,187	
17	2/20/2018	100	7,051	7,960	4,028	507,880	7,318	
18	2/20/2018	100	6,911	7,374	4,418	496,240	6,054	
19	2/21/2018	100	6,654	7,774	4,503	502,340	6,252	
20	2/21/2018	100	6,543	7,025	4,096	500,320	6,222	
21	2/21/2018	99	6,915	9,184	3,944	510,640	7,277	
22	2/21/2018	100	6,664	7,251	3,873	506,820	7,084	
23	2/21/2018	100	6,683	7,171	4,092	494,860	6,904	
24	2/21/2018	100	6,415	7,253	4,272	498,020	6,984	
25	2/22/2018	99	6,755	8,060	4,346	504,340	7,221	

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Well Name: Alan H Degarmo BRK 1H

47009001930000

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	212.00	212.00	
Top of Salt Water	428.00	428.00	NA	NA	
Pittsburgh Coal	271.00	271.00	NA	NA	
Pottsville (ss)	420.00	420.00	499.00	499.00	
Mauch Chunk (shale)	501.00	501.00	1279.00	1279.00	
Raven Cliff (ss)	755.00	755.00	951.00	951.00	
Maxton (ss)	1144.00	1144.00	1205.00	1205.00	
Greenbriar (ls)	1279.00	1279.00	1458.00	1458.00	
Big Injun (ss)	1458.00	1458.00	1601.00	1601.00	
Berea (siltstone)	1948.00	1948.00	1999.00	1999.00	
Rhinestreet (shale)	5625.00	5381.00	5852.00	5578.00	
Cashaqua (shale)	5852.00	5578.00	5916.00	5630.00	
Middlesex (shale)	5916.00	5630.00	5995.00	5690.00	
Burket (shale)	5995.00	5690.00	6015.00	5705.00	
Tully (ls)	6015.00	5705.00	6098.00	5762.00	
Mahantango (shale)	6098.00	5762.00	6305.00	5874.00	
Marcellus (shale)	6305.00	5874.00	NA	NA	GAS

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	2/15/2018
Job End Date:	2/22/2018
State:	West Virginia
County:	Brooke
API Number:	47-009-00197-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	Alan H DeGarmo BRK 1H
Latitude:	40.24642047
Longitude:	-80.57228869
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,864
Total Base Water Volume (gal):	7,715,901
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
Fresh Water	Operator	Base Fluid					
			Water	7732-18-5	100.00000	82.76660	Density = 8.330
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	1.02157	

BIOC11219A	Nalco Champion	Biocide					
				Listed Below			
HAI-150E	Halliburton	Corrosion Inhibitor					
				Listed Below			
SCAL16486A	Nalco Champion	Scale Inhibitor					
				Listed Below			
FDP-S1176-15	Halliburton	Friction Reducer					
				Listed Below			
SAND-COMMON WHITE-100 MESH, SSA-2, BULK (100003676)	Halliburton	Proppant					
				Listed Below			
SAND-PREMIUM WHITE-40/70, BULK	Halliburton	Proppant					
				Listed Below			
HYDROCHLORIC ACID	Halliburton	Solvent					
				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	16.15595	
			Hydrochloric acid	7647-01-0	15.00000	0.14708	

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			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.02053	
			Polyacrylate	Proprietary	30.00000	0.02053	
			Menthanol	67-56-1	60.00000	0.01374	
			Benzyl-(C12-C16 Alkyl)-Dimethyl-Ammonium	68424-85-1	30.00000	0.00687	
			Sodium chloride	7647-14-5	5.00000	0.00342	
			Sobitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00342	
			9-Octadecenamide, n,n-bis-2(hydroxy-ethyl)-,(Z)	93-83-4	5.00000	0.00342	
			Ammonium chloride	12125-02-9	5.00000	0.00342	
			Castor oil, ethoxylated	61791-12-6	5.00000	0.00342	
			Glutaraldehyde	111-30-8	10.00000	0.00229	
			Ethylene Glycol	107-21-1	30.00000	0.00160	
			Amine Triphosphate	Proprietary	30.00000	0.00160	Denise Tuck, Halliburton, 3000 N. Sam Houston Pkwy E., Houston, TX 77032, 281-871-6226
			Non-hazardous food substance	Proprietary	100.00000	0.00029	

* 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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 600 MARKETPLACE AVENUE, SUITE 200
 BRIDGEPORT, WV 26330
 304-933-3119

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS			
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
	ALAN H. DEGARMO & MARY KAY DEGARMO LIFE ESTATE KATHRYN A. DEGARMO AND PATRICK A. DEGARMO REMAINDER	3-B33-20	140.97
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
1	CHRISTY A. CYBULSKI	3-B33-10	87.12

ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	CHARLES STEWART	3-B33-55.1	1.01
B	JEFFERY L. MARTINDILL	3-B33-9	1.6
C	RICHARD C. & BONNIE OLENICK	3-B33-8	1.4
D	EDWARD FRANK MARKER III & TERESA ANN MARKER	3-B33-11	1.68
E	JOHN WILLIAM & HELEN DARLENE MCGOWAN	3-B33-15	2.49
F	JOHN WILLIAM & HELEN DARLENE MCGOWAN	3-B33-16	2.5
G	ROBERT ANTILL, JR & CYNTHIA ANTILL	3-B33-17.2	1.0530
H	JOANN MYERS LIFE ESTATE & JAMES W. MYERS REMAINDER	3-B33-19	2.40
I	THOMAS M. & DEBORAH J. OLDAKER	3-B33-1	2.39
J	MICHEAL W. SOMON	3-B27-25	3.12
K	LARRY B. & SHELLY D. ARACICH	3-B27-23	5.01
L	ZACCHEUS PROPERTIES	3-B27-20	0.459
M	KATHRYN DEGARMO	3-B33-20.1	2.5
N	MARY ANN CHARLTON & DAVID M. EDWARDS	3-B33-21	1.5329
O	PARTICK DEGARMO	3-B33-20.2	1.53

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07/20/2018

REVISIONS:	COMPANY:			
	OPERATOR'S		ALAN H DEGARMO BRK	
	WELL #:		1H	
	DISTRICT:	COUNTY:	STATE:	DATE: 04-18-2018
	BUFFALO	BROOKE	WV	DRAWN BY: K.E.S.
				SCALE: N/A
				DRAWING NO: 164-764
				WELL LOCATION PLAT 2

Longitude: 80°32'30"

SURFACE HOLE 8563'

Longitude: 80°35'00" BOTTOM HOLE

870'

Latitude: 40°15'00" SURFACE HOLE 1203'

BOTTOM HOLE 10919'

Latitude: 40°17'30"

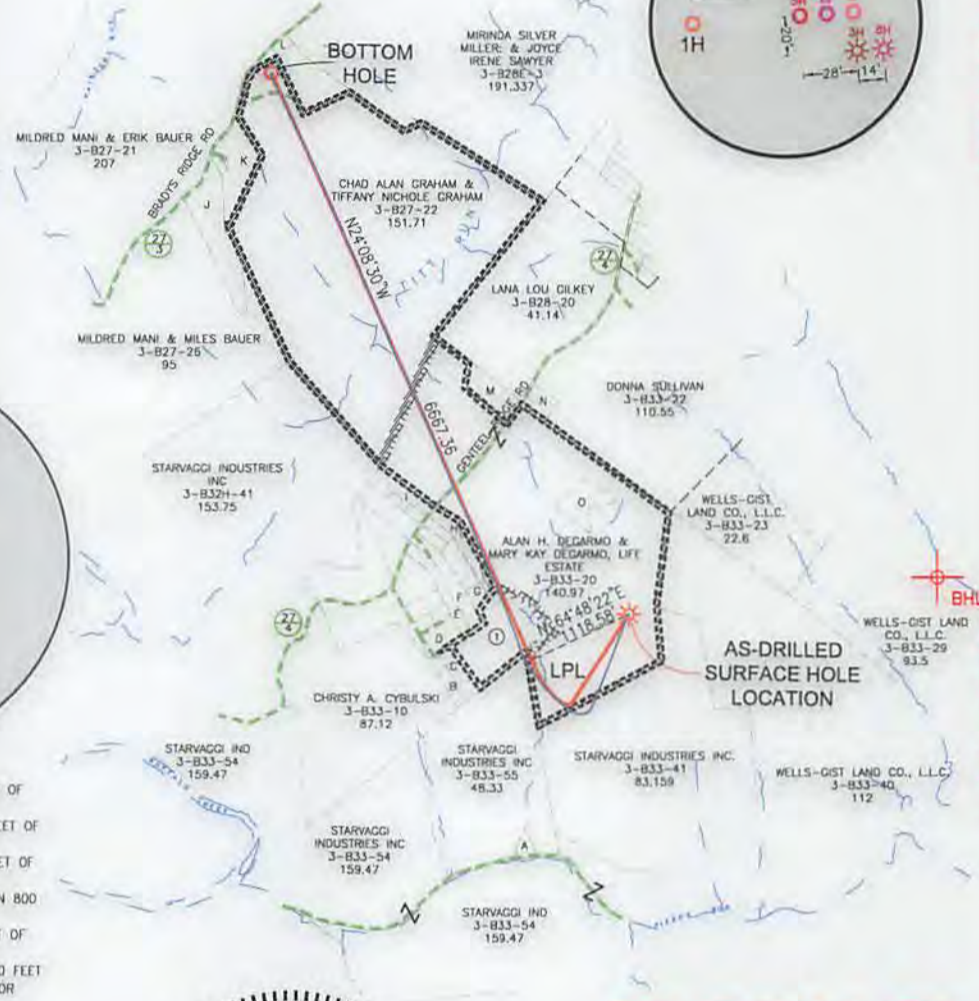
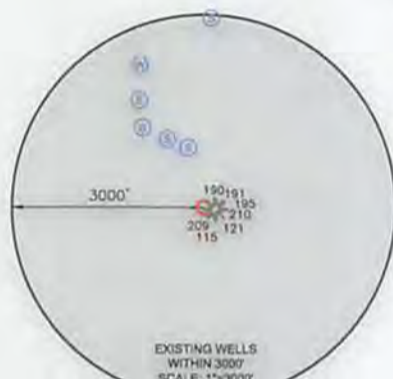


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GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,455,195.736 EASTING: 536,377.763
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,455,191.666 EASTING: 535,992.230
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,456,882.560 EASTING: 535,205.663
PERMIT SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,455,195.789 EASTING: 536,377.789
PERMIT LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,455,045.562 EASTING: 536,071.870
PERMIT BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,456,885.134 EASTING: 535,210.074



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 957 FEET OF PROPOSED WELL.
4. PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 800 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

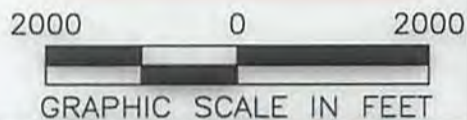
1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

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



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COMPANY: **SWN** Production Company, LLC

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	ALAN H DEGARMO BRK
WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	PROVEN SURVEY SOURCE OF ELEVATION: (NAVD 88, US FT)	OPERATOR'S WELL #: 1H
		API WELL #: 47 009 00193
		STATE COUNTY PERMIT



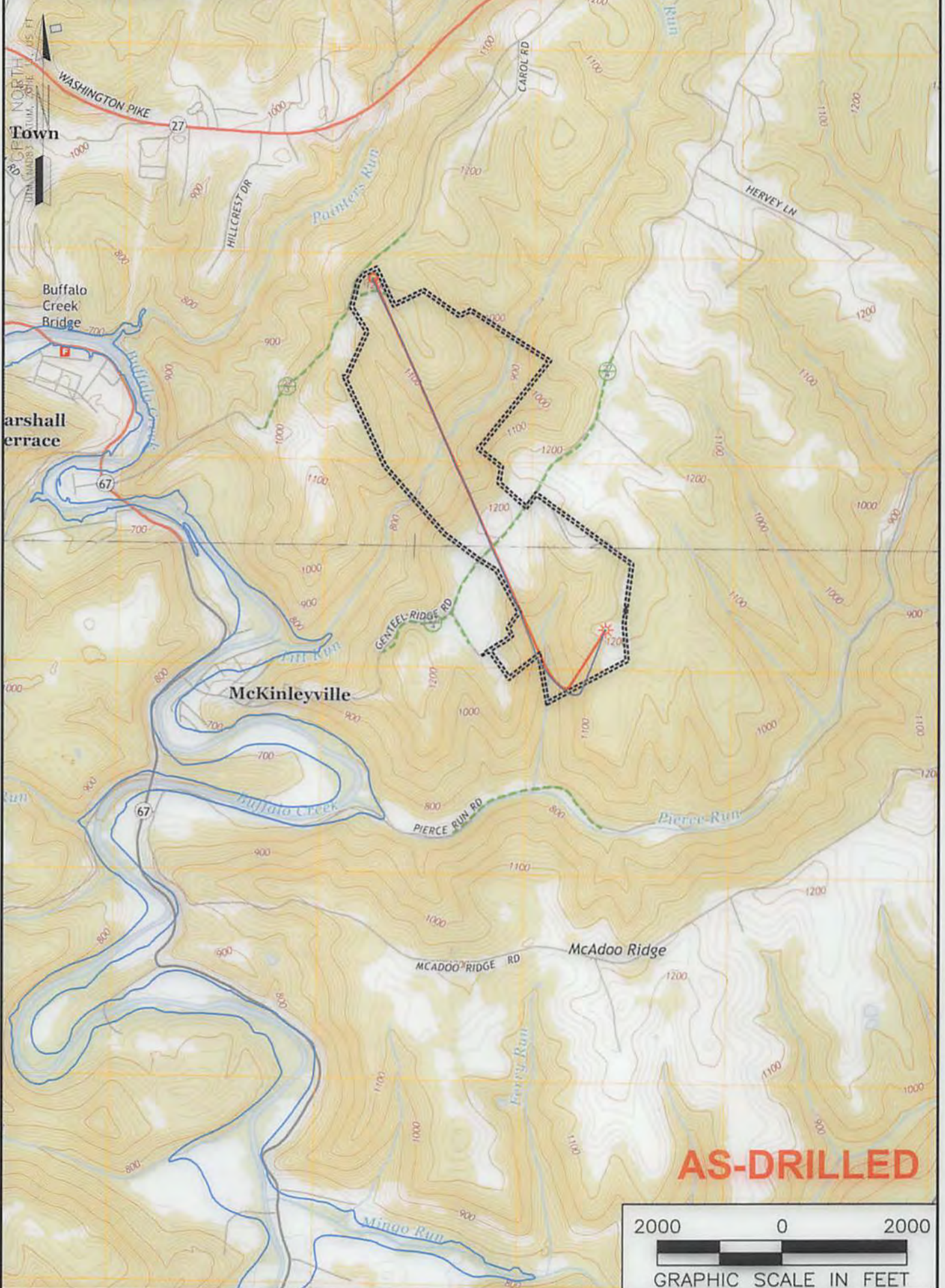
WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/>	ELEVATION: 1204.0
WATERSHED: UPPER OHIO SOUTH	QUADRANGLE: BETHANY
DISTRICT: BUFFALO COUNTY: BROOKE	ACREAGE: 140.97±
SURFACE OWNER: ALAN H DEGARMO & MARY KAY DEGARMO, LIFE ESTATE	ACREAGE: 140.97±
OIL & GAS ROYALTY OWNER: ALAN H DEGARMO	
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 <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input checked="" type="checkbox"/> (SPECIFY) ASDRILLED	07/20/2018
TARGET FORMATION: MARCELLUS	ESTIMATED DEPTH: 5,828.01 TVD 13,267 TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	DESIGNATED AGENT: DEE SOUTHALL
ADDRESS: P.O. BOX 1300	ADDRESS: P.O. BOX 1300
CITY: JANE LEW STATE: WV ZIP CODE: 26378	CITY: JANE LEW STATE: WV ZIP CODE: 26378

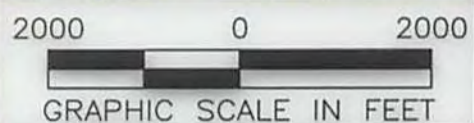
LEGEND:	SURVEYED BOUNDARY	REVISIONS:	DATE: 04-18-2018
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— DRILLING UNIT		
⊙ EXISTING / PRODUCING WELLHEAD	==== LEASE BOUNDARY		
LPL* LANDING POINT LOCATION	— ASDRILLED PATH		
⊕ EXISTING WATER WELL	— PROPOSED PATH		
⊕ EXISTING SPRING			
			DRAWN BY: K.E.S.
			SCALE: 1" = 2000'
			DRAWING NO: 164-764
			WELL LOCATION PLAT



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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.
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LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- ⊙ EXISTING / PRODUCING WELLHEAD
- LPL* LANDING POINT LOCATION
- ⊞ FLOOD PLAN
- ACCESS ROAD
- - - PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- - - LEASE BOUNDARY
- PROPOSED PATH

07/20/2018

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: ALAN H DEGARMO BRK	WELL # 1H	SERIAL # XXXX
ADDRESS: P.O. BOX 1300 JANE LEW, WV 26378	COUNTY - CODE BROOKE - 009	DISTRICT; BUFFALO	
SURFACE OWNER: ALAN H DEGARMO & MARY KAY DEGARMO, LIFE ESTATE	USGS 7 1/2 QUADRANGLE MAP NAME BETHANY, WV		