

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

API 47 - 069 - 00214 County OHIO District TRIADELPHIA
Quad VALLEY GROVE Pad Name DEBORAH CRAIG-OHI-PAD1 Field/Pool Name PANHANDLE
Farm name CRAIG, DEBORAH ANN Well Number DEBORAH CRAIG OHI 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 4,433,160.614 Easting 535,412.717
Landing Point of Curve Northing 4,433,272.781 Easting 535,131.383
Bottom Hole Northing 4,435,070.674 Easting 534,040.773

Elevation (ft) 1329.3 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 2/16/2017 Date drilling commenced 05/06/2017 Date drilling ceased 06/17/2017
Date completion activities began 9/17/2017 Date completion activities ceased 10/14/2017
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 560' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 812' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 687' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed

C. BLO 5.10.18

Reviewed by: _____

API 47-069 - 00214 Farm name CRAIG, DEBORAH ANN Well number DEBORAH CRAIG OHI 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	24	20	126'	NEW	J-55/94#		Y
Surface	17.5	13.375	736'	NEW	J-55/48#		Y, 25BBLs
Coal	SEE INTERMEDIATE						
Intermediate 1	12.25	9.625	2146'	NEW	J-55/36#		Y, 33 BBLs
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	13928'	NEW	HCP-110/20#		Y
Tubing		2.375	6884'	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	GROUT TO SURFACE				SURFACE	24
Surface	CLASS A	580	15.60	1.20	696	SURFACE	8
Coal	SEE INTERMEDIATE						
Intermediate 1	CLASS A	804	15.60	1.19	956.76	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	760/1697	15.60	1.21/1.19	919.6/2019.43	SURFACE	24
Tubing							

Drillers TD (ft) 13928' Loggers TD (ft) 13928'
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5768'

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

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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 _____

DEBORAH CRAIG OHI 1H
PERF SUMMARY

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	8/5/2017	13,747	13,819	72
2	9/19/2017	13,642	13,714	72
3	9/19/2017	13,537	13,609	72
4	9/19/2017	13,432	13,504	72
5	9/19/2017	13,327	13,399	72
6	9/19/2017	13,222	13,294	72
7	9/19/2017	13,117	13,189	72
8	9/19/2017	13,012	13,084	72
9	9/20/2017	12,907	12,979	72
10	9/20/2017	12,802	12,874	72
11	9/20/2017	12,697	12,767	72
12	9/20/2017	12,592	12,664	72
13	9/20/2017	12,487	12,559	72
14	9/21/2017	12,382	12,454	72
15	9/21/2017	12,277	12,349	72
16	9/21/2017	12,172	12,244	72
17	9/21/2017	12,067	12,139	72
18	9/21/2017	11,962	12,034	72
19	9/21/2017	11,857	11,929	72
20	9/22/2017	11,752	11,824	72
21	9/22/2017	11,647	11,719	72
22	9/23/2017	11,542	11,614	72
23	9/23/2017	11,437	11,509	72
24	9/23/2017	11,332	11,404	72
25	9/23/2017	11,227	11,299	72
26	9/23/2017	11,122	11,194	72
27	9/23/2017	11,017	11,089	72
28	9/24/2017	10,912	10,984	72
29	9/24/2017	10,807	10,879	72
30	9/24/2017	10,702	10,774	72
31	9/24/2017	10,597	10,669	72
32	9/24/2017	10,492	10,564	72
33	9/24/2017	10,387	10,459	72
34	9/24/2017	10,282	10,354	72
35	9/25/2017	10,177	10,249	72
36	9/25/2017	10,072	10,144	72
37	9/25/2017	9,967	10,039	72
38	9/25/2017	9,862	9,934	72
39	9/25/2017	9,757	9,829	72
40	9/25/2017	9,652	9,724	72
41	9/25/2017	9,547	9,619	72
42	9/26/2017	9,442	9,514	72
43	9/26/2017	9,337	9,409	72
44	9/26/2017	9,232	9,304	72
45	9/26/2017	9,127	9,199	72
46	9/26/2017	9,022	9,094	72
47	9/26/2017	8,917	8,989	72

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DEBORAH CRAIG OHI 1H
PERF SUMMARY

48	9/27/2017	8,812	8,884	72
49	9/27/2017	8,707	8,779	72
50	9/27/2017	8,602	8,672	72
51	9/27/2017	8,497	8,569	72
52	9/27/2017	8,392	8,464	72
53	9/27/2017	8,287	8,359	72
54	9/28/2017	8,182	8,254	72
55	9/28/2017	8,077	8,149	72
56	9/28/2017	7,972	8,044	72
57	9/28/2017	7,867	7,939	72
58	9/28/2017	7,765	7,834	72
59	9/28/2017	7,657	7,729	72
60	9/28/2017	7,552	7,624	72
61	9/29/2017	7,447	7,519	72
62	9/29/2017	7,342	7,414	72
63	9/29/2017	7,237	7,309	72
64	9/29/2017	7,132	7,204	72
65	9/29/2017	7,027	7,099	72
66	9/30/2017	6,922	6,994	72

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DEBORAH CRAIG OHI 1H
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	8/5/2017	69	8,205	8,780	4,143	742,080	17,664	
2	9/19/2017	85	7,280	7,502	4,527	744,980	12,194	
3	9/19/2017	88	7,443	7,826	4,714	742,110	11,794	
4	9/19/2017	89	8,180	9,128	4,448	742,600	12,202	
5	9/19/2017	98	8,186	8,466	4,447	743,120	11,856	
6	9/19/2017	87	7,647	7,810	4,646	745,670	11,740	
7	9/19/2017	95	7,859	8,338	4,805	746,540	11,004	
8	9/19/2017	93	7,741	7,900	4,756	752,940	11,774	
9	9/20/2017	96	7,792	8,232	4,953	751,680	11,256	
10	9/20/2017	95	7,945	8,407	4,558	751,360	11,454	
11	9/20/2017	94	8,044	8,473	4,920	750,040	11,584	
12	9/20/2017	90	7,786	8,013	4,866	750,800	11,542	
13	9/20/2017	98	7,825	8,273	5,030	750,880	11,392	
14	9/21/2017	97	7,703	8,101	5,285	757,040	11,906	
15	9/21/2017	96	8,258	8,393	4,750	743,040	11,842	
16	9/21/2017	99	7,797	8,075	4,497	747,440	11,838	
17	9/21/2017	93	8,002	8,835	4,642	742,240	12,170	
18	9/21/2017	88	7,828	8,270	4,717	749,200	11,496	
19	9/21/2017	97	7,588	7,879	5,072	751,880	11,572	
20	9/22/2017	97	7,643	8,010	5,288	747,960	11,448	
21	9/22/2017	95	7,582	7,935	5,161	749,320	12,210	
22	9/23/2017	97	7,607	8,299	5,088	755,560	11,050	
23	9/23/2017	94	7,739	8,452	4,613	751,600	11,218	
24	9/23/2017	96	7,925	8,680	5,081	723,640	11,214	
25	9/23/2017	95	7,791	8,258	5,227	748,600	11,194	
26	9/23/2017	93	7,741	8,042	5,009	748,200	11,308	
27	9/23/2017	94	7,772	8,430	5,149	747,880	11,364	
28	9/24/2017	96	7,598	8,091	5,139	746,080	11,394	
29	9/24/2017	97	7,541	7,853	5,740	747,920	11,018	
30	9/24/2017	97	7,841	8,267	4,672	752,520	11,140	
31	9/24/2017	95	963	8,284	4,333	755,040	11,038	
32	9/24/2017	95	7,585	7,975	4,712	747,440	11,340	
33	9/24/2017	91	7,889	8,255	4,632	745,000	11,206	
34	9/24/2017	97	7,628	8,016	4,724	754,400	11,144	
35	9/25/2017	99	7,611	8,046	4,934	750,980	11,214	
36	9/25/2017	94	7,607	8,120	3,230	749,320	10,910	RECEIVED Office of Oil and Gas
37	9/25/2017	96	7,820	8,084	4,626	746,560	10,836	
38	9/25/2017	94	7,728	8,100	4,878	748,200	10,836	JAN 5 2018
39	9/25/2017	98	7,653	7,902	4,613	747,440	11,012	
40	9/25/2017	98	7,542	8,051	5,144	750,160	10,928	WV Department of Environmental Protection
41	9/25/2017	98	7,394	7,733	4,711	749,760	11,012	
42	9/26/2017	98	7,434	7,698	4,826	749,000	10,908	
43	9/26/2017	87	7,127	7,604	4,673	746,680	10,858	
44	9/26/2017	90	7,349	7,550	4,935	753,440	10,738	
45	9/26/2017	89	7,783	8,872	4,583	758,680	11,010	
46	9/26/2017	99	7,623	7,950	4,369	756,220	10,886	
47	9/26/2017	96	7,634	7,929	5,228	752,700	10,808	
48	9/27/2017	99	7,249	7,526	4,682	750,100	11,512	
49	9/27/2017	95	7,168	7,497	4,654	752,440	11,294	
50	9/27/2017	91	7,283	7,640	4,781	751,040	10,652	
51	9/27/2017	97	7,628	8,006	5,354	754,160	10,686	
52	9/27/2017	99	7,478	8,019	4,773	749,640	10,590	
53	9/27/2017	98	7,682	8,149	4,898	748,680	10,630	
54	9/28/2017	98	7,667	8,332	4,802	754,960	10,688	
55	9/28/2017	98	7,631	8,125	4,962	752,720	10,598	

DEBORAH CRAIG OHI 1H
FRAC STAGE SUMMARY

56	9/28/2017	98	7,314	7,601	4,496	754,480	10,612
57	9/28/2017	97	7,651	8,459	4,485	759,400	10,520
58	9/28/2017	98	7,620	8,503	5,126	753,000	10,558
59	9/28/2017	98	7,666	8,108	4,696	751,600	10,584
60	9/28/2017	93	7,719	8,676	4,777	757,400	11,316
61	9/29/2017	92	7,028	7,381	4,709	760,720	10,466
62	9/29/2017	98	7,181	8,236	4,991	756,220	10,490
63	9/29/2017	98	7,061	7,786	4,400	748,920	10,434
64	9/29/2017	98	7,079	7,321	4,833	758,200	11,578
65	9/29/2017	85	7,303	9,175	4,902	749,800	10,862
66	9/30/2017	98	6,773	7,158	4,796	749,400	10,526

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Well Name:

DEBORAH CRAIG OHI 1H

47069002140000

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.	560.00	560.00	
Top of Salt Water	812.00	812.00	N.A.	N.A.	
Pittsburgh Coal	687.00	687.00	690.00	690.00	
Big Injun (ss)	1940.00	1940.00	2054.00	2054.00	
Berea (siltstone)	2447.00	2447.00	5941.00	5901.00	
Rhinestreet (shale)	5941.00	5901.00	6261.00	6192.00	
Cashaqua (shale)	6261.00	6192.00	6361.00	6268.00	
Middlesex (shale)	6361.00	6268.00	6479.00	6347.00	
Burket (shale)	6479.00	6347.00	6511.00	6368.00	
Tully (ls)	6511.00	6368.00	6575.00	6406.00	
Mahantango (shale)	6575.00	6406.00	6881.00	6519.00	
Marcellus (shale)	6881.00	6519.00	N.A.	N.A.	GAS

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Deborah Craig OHI 1H
Ohio County, WV
SDC 40
Plan vs Actual

Plan Data for Deborah Craig OHI 1H

DogLeg Severity Unit: °/100.00ft

MD Inc	Az	TVD	+N/-S	+E/-W	USec	DLS	Toolface	Comments
(USft)	(°)	(USft)	(USft)	(USft)	(USft)	(DLSU)	(°)	(°)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0
2250.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0 Nudge KOP
2698.95	8.98	239.55	2697.11	-17.79	-30.26	0.51	2.00	239.6 Hold
5759.21	8.98	239.55	5719.87	-259.83	-442.01	7.45	0.00	0.0 Curve KOP
6761.80	70.00	329.08	6484.56	158.26	-797.08	549.12	7.00	92.8 Build/Turn
6990.85	90.61	328.72	6522.93	350.54	-913.10	773.69	9.00	359.0 Landing Point
13910.85	90.61	328.72	6449.00	6264.38	-4505.79	7693.29	0.00	0.0 PBHL DC1H

Target Set Information:

Name: Deborah Craig OHI 1H

Name	TVD	+N/-S	+E/-W	Northing	Easting	Lat	Long
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(°)	(°)
LP DC1H	6525.00	184.23	-812.06	14544645.38	1755787.74	40.048456	-80.587744
PBHL DC1H	6449.00	6264.38	-4505.79	14550725.53	1752094.01	40.065199	-80.600846

Plan Data for Deborah Craig OHI 1H

Field: SOUTHWESTERN_OHIO CO, WV UTM MAD 83 (17N)
Map Unit: USFT
Vertical Reference Datum (VRD): Mean Sea Level
Projected Coordinate System: NAD83 / UTM zone 17N

Site: Deborah Craig Pad

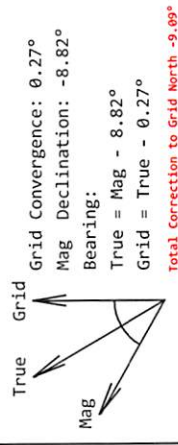
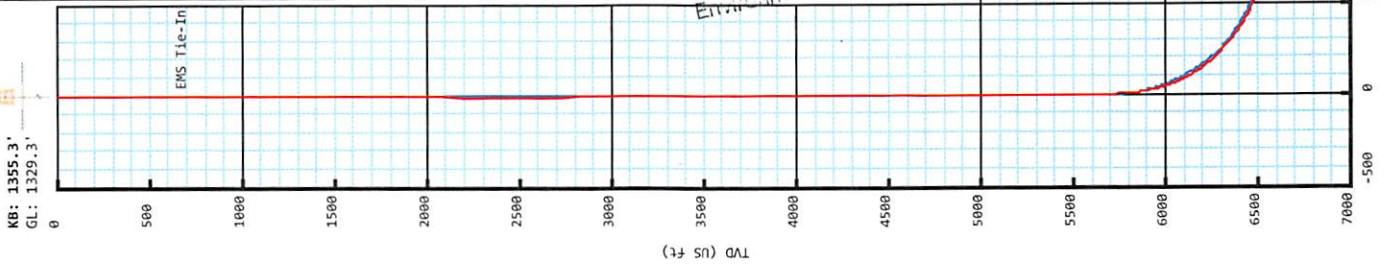
Unit: USFeet
Company Name: SOUTHWESTERN ENERGY
North Reference: Grid
Elevation Above VRD: 1329.30USft

Position:
Offset is from Site centre
North Reference: Grid
Elevation Above VRD: 1329.30USft

Slot: Deborah Craig OHI 1H

Plan Folder: PI
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft
+E/-W: 0.00USft

Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
biggm2017 52375(nt) -8.82° 67.15° 2017-05-22



Weatherford

Drawing By: GWR Date: 05/23/2017
Weatherford Drilling Services
7725 N. Reno, Ste. #220
Oklahoma City, OK 73127
+1.405.773.1100 Main
+1.405.773.1887 Fax

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SURVEY REPORT

Report Date: 6/14/2017
 Customer: SWN Production Co., LLC Field: Panhandle
 Job Name: NE-12532405 Rig: SDC 40
 Well Name: Deborah Craig OHI 1H Rig Loc: Ohio County, WV

Survey Calculation Method: Minimum Curvature						
Magnetic Reference	Target Direction	Total Magnetic Field	Magnetic Dip Angle	Magnetic Declination	Grid Convergence	Total Correction
Grid North	324.27 deg	52376 nT	67.15 deg	-8.82 deg	0.27 deg	-9.09 deg
Survey Tie-On	Depth	INC	AZ	TVD	NS	EW
	0.00 ft	0.00 deg	0.00 deg	0.00 ft	0.00 ft	0.00 ft

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head			Vsect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)			
173.00	0.40	27.65	173.00	0.53	0.28	0.27	0.23	
264.00	0.04	340.85	264.00	0.85	0.42	0.44	0.41	
356.00	0.00	24.25	356.00	0.88	0.41	0.47	0.04	
463.00	0.20	0.15	463.00	1.06	0.41	0.63	0.19	
556.00	0.30	92.95	556.00	1.21	0.65	0.60	0.40	
649.00	0.10	336.25	649.00	1.27	0.86	0.53	0.38	
692.00	0.30	318.35	692.00	1.39	0.77	0.68	0.48	
781.00	0.47	266.59	780.99	1.55	0.25	1.11	0.41	
874.00	0.36	247.77	873.99	1.41	-0.40	1.38	0.19	
963.00	0.43	228.40	962.99	1.09	-0.91	1.41	0.17	
1056.00	0.36	259.39	1055.99	0.80	-1.46	1.50	0.24	
1149.00	0.48	295.62	1148.99	0.91	-2.09	1.97	0.31	
1241.00	0.40	297.07	1240.98	1.23	-2.73	2.59	0.09	
1334.00	0.35	295.61	1333.98	1.50	-3.27	3.13	0.05	
1427.00	0.38	326.27	1426.98	1.88	-3.70	3.68	0.21	
1520.00	0.28	316.78	1519.98	2.30	-4.03	4.22	0.12	
1613.00	0.22	40.56	1612.98	2.60	-4.07	4.49	0.36	
1705.00	0.14	204.94	1704.98	2.63	-4.00	4.47	0.39	
1795.00	0.27	143.05	1794.98	2.36	-3.92	4.21	0.26	
1885.00	0.54	122.90	1884.97	1.96	-3.43	3.60	0.33	
1975.00	0.80	101.52	1974.97	1.61	-2.46	2.74	0.40	
2067.00	0.86	120.64	2066.96	1.13	-1.24	1.64	0.31	
2078.00	1.05	124.71	2077.96	1.03	-1.09	1.47	1.83	
2193.00	0.94	118.53	2192.94	-0.02	0.61	-0.37	0.13	
2286.00	0.44	203.80	2285.93	-0.71	1.14	-1.24	1.08	
2375.00	1.88	231.76	2374.91	-1.93	-0.15	-1.48	1.69	
2465.00	3.89	236.96	2464.79	-4.51	-3.87	-1.40	2.25	
2558.00	6.06	242.45	2557.44	-8.50	-10.87	-0.55	2.39	
2651.00	8.19	241.92	2649.72	-13.89	-21.06	1.03	2.29	
2741.00	8.54	241.36	2738.76	-20.11	-32.58	2.70	0.40	
2833.00	8.68	240.84	2829.72	-26.77	-44.64	4.34	0.17	
2926.00	8.64	239.17	2921.66	-33.77	-56.77	5.74	0.27	
3019.00	8.31	237.95	3013.65	-40.91	-68.46	6.77	0.40	
3112.00	8.57	238.58	3105.64	-48.09	-80.07	7.72	0.30	
3201.00	8.93	240.05	3193.60	-55.00	-91.72	8.92		

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Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
3294.00	8.65	239.62	3285.51	-62.14	-104.00	10.29	0.31
3387.00	8.45	239.44	3377.48	-69.15	-115.92	11.56	0.22
3480.00	8.82	242.75	3469.42	-75.89	-128.14	13.23	0.67
3572.00	8.69	244.08	3560.35	-82.15	-140.67	15.45	0.26
3665.00	9.05	241.15	3652.24	-88.75	-153.39	17.53	0.62
3758.00	9.02	240.53	3744.08	-95.87	-166.14	19.20	0.11
3851.00	8.71	240.34	3835.97	-102.94	-178.61	20.74	0.33
3944.00	8.52	239.68	3927.92	-109.90	-190.68	22.13	0.23
4036.00	8.74	239.60	4018.88	-116.88	-202.59	23.42	0.24
4129.00	8.53	239.20	4110.83	-123.99	-214.61	24.67	0.23
4222.00	7.93	237.84	4202.87	-130.93	-225.96	25.66	0.68
4315.00	8.34	239.13	4294.93	-137.81	-237.18	26.64	0.48
4407.00	8.95	240.89	4385.89	-144.71	-249.16	28.03	0.72
4500.00	8.57	240.39	4477.80	-151.66	-261.51	29.60	0.42
4593.00	9.22	238.98	4569.68	-158.92	-273.92	30.95	0.74
4686.00	9.04	237.54	4661.51	-166.68	-286.47	31.98	0.31
4779.00	8.53	235.43	4753.42	-174.52	-298.31	32.53	0.65
4872.00	8.80	233.93	4845.35	-182.62	-309.74	32.63	0.38
4964.00	8.69	237.57	4936.29	-190.49	-321.29	32.99	0.61
5057.00	8.88	245.20	5028.20	-197.27	-333.74	34.76	1.27
5147.00	8.76	242.67	5117.13	-203.33	-346.14	37.07	0.45
5240.00	8.53	239.01	5209.08	-210.13	-358.34	38.68	0.64
5332.00	9.03	238.44	5300.00	-217.42	-370.34	39.77	0.55
5425.00	9.19	242.24	5391.83	-224.70	-383.13	41.33	0.67
5518.00	8.58	240.73	5483.71	-231.55	-395.75	43.14	0.70
5611.00	9.30	241.69	5575.58	-238.51	-408.42	44.89	0.79
5724.00	7.58	240.72	5687.35	-246.48	-422.96	46.91	1.53
5771.00	6.54	253.29	5734.00	-248.77	-428.23	48.13	3.95
5817.00	7.27	272.65	5779.67	-249.39	-433.65	50.79	5.27
5863.00	8.64	283.39	5825.23	-248.45	-439.92	55.21	4.38
5910.00	10.92	289.67	5871.54	-246.14	-447.54	61.54	5.35
5956.00	13.24	295.23	5916.52	-242.43	-456.41	69.73	5.64
6003.00	16.13	299.43	5961.99	-236.92	-466.97	80.37	6.55
6049.00	19.87	302.86	6005.73	-229.54	-479.11	93.45	8.45
6095.00	23.53	305.50	6048.46	-219.96	-493.16	109.43	8.23
6142.00	27.24	307.96	6090.92	-207.89	-509.28	128.64	8.20
6188.00	30.84	310.16	6131.13	-193.81	-526.60	150.19	8.16
6234.00	34.59	312.18	6169.83	-177.43	-545.29	174.40	8.49
6281.00	38.17	313.66	6207.66	-158.44	-565.69	201.73	7.84
6327.00	41.71	314.94	6242.92	-137.81	-586.81	230.81	7.90
6374.00	45.14	316.65	6277.06	-114.64	-609.32	262.76	7.71
6420.00	47.93	320.10	6308.70	-89.68	-631.48	295.96	8.15
6466.00	49.74	321.88	6338.98	-62.77	-653.26	330.53	4.90
6513.00	51.61	323.44	6368.76	-33.86	-675.31	366.87	4.74
6559.00	54.00	325.14	6396.57	-4.11	-696.69	403.51	5.97
6606.00	57.40	326.15	6423.05	27.94	-718.59	442.32	7.45
6652.00	62.39	326.17	6446.12	60.99	-740.74	482.08	10.85
6698.00	66.57	326.01	6465.93	95.43	-763.90	523.56	9.09
6745.00	70.27	326.29	6483.22	131.72	-788.24	567.23	7.89
6791.00	73.61	327.81	6497.48	168.42	-812.02	610.91	

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Depth (ft)	Inc (deg)	Azimuth (deg)	TVD (ft)	Well Head		Vsect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
6838.00	76.12	329.49	6509.75	207.16	-835.61	656.14	6.36
6884.00	78.88	331.09	6519.70	246.16	-857.86	700.79	6.89
6930.00	82.57	331.97	6527.12	286.06	-879.50	745.82	8.24
6977.00	86.85	332.09	6531.45	327.39	-901.45	792.18	9.11
7023.00	90.80	331.96	6532.39	368.00	-923.01	837.74	8.59
7116.00	90.68	328.32	6531.19	448.63	-969.31	930.23	3.92
7209.00	90.56	328.61	6530.18	527.89	-1017.94	1022.97	0.34
7302.00	90.62	329.65	6529.23	607.71	-1065.66	1115.63	1.12
7394.00	90.68	329.44	6528.18	687.01	-1112.29	1207.24	0.24
7487.00	91.05	328.74	6526.78	766.79	-1160.05	1299.90	0.85
7580.00	90.80	327.11	6525.28	845.58	-1209.43	1392.69	1.77
7673.00	90.92	326.14	6523.88	923.24	-1260.59	1485.60	1.05
7765.00	90.86	324.56	6522.45	998.91	-1312.89	1577.57	1.72
7858.00	90.86	325.35	6521.06	1075.04	-1366.28	1670.56	0.85
7951.00	90.92	327.73	6519.61	1152.61	-1417.55	1763.46	2.56
8044.00	90.99	331.72	6518.06	1232.90	-1464.42	1856.01	4.29
8137.00	90.74	329.80	6516.66	1314.04	-1509.84	1948.40	2.08
8229.00	90.86	330.88	6515.37	1393.97	-1555.36	2039.88	1.18
8322.00	90.80	331.55	6514.03	1475.47	-1600.14	2132.18	0.72
8415.00	90.86	330.49	6512.68	1556.82	-1645.19	2224.53	1.14
8508.00	90.93	333.94	6511.22	1639.07	-1688.53	2316.61	3.71
8600.00	90.97	333.28	6509.70	1721.48	-1729.42	2407.38	0.72
8693.00	90.93	330.03	6508.16	1803.30	-1773.56	2499.58	3.49
8786.00	91.05	328.44	6506.55	1883.20	-1821.12	2592.21	1.71
8879.00	90.62	327.13	6505.19	1961.87	-1870.69	2685.03	1.48
8968.00	90.68	326.26	6504.19	2036.25	-1919.56	2773.94	0.98
9058.00	90.43	326.36	6503.31	2111.13	-1969.48	2863.88	0.30
9151.00	90.37	326.30	6502.66	2188.53	-2021.04	2956.82	0.09
9240.00	90.43	327.00	6502.04	2262.87	-2069.96	3045.74	0.79
9332.00	90.80	328.73	6501.06	2340.77	-2118.90	3137.55	1.92
9425.00	90.86	330.92	6499.71	2421.15	-2165.63	3230.10	2.36
9518.00	90.86	331.29	6498.31	2502.57	-2210.57	3322.42	0.40
9610.00	90.19	329.49	6497.47	2582.54	-2256.02	3413.89	2.09
9703.00	90.49	327.31	6496.92	2661.75	-2304.75	3506.64	2.37
9796.00	90.56	328.29	6496.06	2740.44	-2354.30	3599.46	1.06
9889.00	90.49	326.95	6495.21	2818.97	-2404.10	3692.30	1.44
9981.00	90.56	325.00	6494.37	2895.22	-2455.58	3784.25	2.12
10074.00	90.93	325.01	6493.16	2971.40	-2508.91	3877.23	0.40
10167.00	90.74	324.93	6491.81	3047.54	-2562.29	3970.21	0.22
10259.00	90.68	326.01	6490.66	3123.33	-2614.43	4062.19	1.18
10352.00	90.74	324.93	6489.51	3199.94	-2667.14	4155.16	1.16
10445.00	90.80	329.38	6488.26	3278.04	-2717.56	4248.01	4.78
10537.00	91.17	332.29	6486.68	3358.36	-2762.39	4339.38	3.19
10630.00	90.80	333.58	6485.08	3441.16	-2804.69	4431.30	1.44
10722.00	90.93	332.28	6483.69	3523.07	-2846.56	4522.24	1.42
10815.00	90.92	329.82	6482.19	3604.43	-2891.56	4614.57	2.64
10908.00	90.92	330.83	6480.70	3685.22	-2937.60	4707.04	1.09
11000.00	90.49	331.08	6479.57	3765.65	-2982.26	4798.41	0.54
11093.00	90.99	332.43	6478.36	3847.56	-3026.27	4890.61	1.55
11186.00	90.56	330.45	6477.11	3929.24	-3070.72	4982.87	2.18

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Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
11275.00	90.86	329.76	6476.00	4006.39	-3115.08	5071.40	0.85
11368.00	90.93	329.15	6474.55	4086.47	-3162.34	5164.00	0.66
11461.00	90.43	327.13	6473.45	4165.45	-3211.42	5256.78	2.24
11554.00	90.43	326.93	6472.75	4243.47	-3262.03	5349.67	0.22
11647.00	90.68	326.62	6471.85	4321.26	-3312.98	5442.58	0.43
11739.00	90.80	328.05	6470.66	4398.70	-3362.63	5534.43	1.56
11832.00	90.68	328.54	6469.46	4477.82	-3411.50	5627.20	0.54
11925.00	90.25	327.21	6468.70	4556.57	-3460.96	5720.01	1.50
12018.00	90.62	326.73	6468.00	4634.54	-3511.65	5812.90	0.65
12110.00	90.31	327.28	6467.25	4711.70	-3561.74	5904.79	0.69
12203.00	90.62	327.82	6466.50	4790.18	-3611.64	5997.64	0.67
12296.00	90.49	329.23	6465.60	4869.49	-3660.20	6090.37	1.52
12389.00	90.80	331.88	6464.55	4950.46	-3705.91	6182.80	2.87
12482.00	90.86	332.48	6463.20	5032.70	-3749.31	6274.91	0.65
12574.00	90.19	330.95	6462.36	5113.71	-3792.90	6366.12	1.82
12667.00	90.25	330.19	6462.00	5194.71	-3838.59	6458.56	0.82
12760.00	90.62	330.28	6461.30	5275.44	-3884.76	6551.05	0.41
12853.00	90.62	330.49	6460.29	5356.29	-3930.72	6643.52	0.23
12946.00	90.68	329.05	6459.23	5436.63	-3977.53	6736.08	1.55
13038.00	90.62	327.09	6458.19	5514.70	-4026.19	6827.87	2.13
13131.00	90.74	326.21	6457.09	5592.38	-4077.31	6920.78	0.95
13224.00	90.43	324.35	6456.14	5668.82	-4130.27	7013.76	2.03
13317.00	90.68	326.68	6455.24	5745.46	-4182.92	7106.73	2.52
13410.00	90.49	327.30	6454.29	5823.45	-4233.59	7199.62	0.70
13503.00	90.37	326.06	6453.59	5901.16	-4284.67	7292.53	1.34
13592.00	90.37	326.42	6453.01	5975.15	-4334.13	7381.48	0.40
13682.00	90.55	329.92	6452.29	6051.60	-4381.58	7471.25	3.89
13775.00	90.12	331.17	6451.75	6132.57	-4427.31	7563.69	1.42
13868.00	90.56	331.17	6451.20	6214.04	-4472.16	7656.01	0.47
13905.00	90.12	331.13	6450.98	6246.45	-4490.01	7692.75	1.19
Projected to Total Depth:							
13928.00	90.12	331.13	6450.93	6266.59	-4501.12	7715.58	0.00

* SWN surveys from 173.00 ft MD to 692.00 ft MD *
 * Weatherford surveys from 781.00 ft MD to 13905.00 ft MD *
 * TD at 13928 ft MD *
 * The total correction is -9.09 deg relative to Grid North *

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	9/18/2017
Job End Date:	9/30/2017
State:	West Virginia
County:	Ohio
API Number:	47-069-00214-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	Deborah Craig OHI 1H
Latitude:	40.04794000
Longitude:	-80.58484600
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,532
Total Base Water Volume (gal):	15,425,621
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	82.82835	
Sand	U.S. Well Services, LLC	Proppant	Crystalline Silica, quartz	14808-60-7	100.00000	15.93438	
HCL Acid (12.6%-17.5%)	U.S. Well Services, LLC	Bulk Acid	Water	7732-18-5	87.40000	0.59084	
			Hydrogen Chloride	7647-01-0	17.50000	0.13737	
HCL Acid (3% to 7.5%)	U.S. Well Services, LLC	Bulk Acid	Water	7732-18-5	97.00000	0.39024	
			Hydrogen Chloride	7647-01-0	7.50000	0.03504	
WFRA-2000	U.S. Well Services, LLC	Friction Reducer	Water	7732-18-5	60.00000	0.02808	
			2-Propenoic acid, polymer with 2-propenamide	9003-06-9	30.00000	0.01404	
			Hydrated light distillate (petroleum)	64742-47-8	30.00000	0.01151	

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WFRA-1000	U.S. Well Services, LLC	Friction Reducer					
			2-Propenoic acid, polymer with 2-propenamide	9003-06-9	30.00000	0.00964	
			Hydrated light distillate (petroleum)	64742-47-8	30.00000	0.00790	
BIOC11139A	Nalco Champion	Anti-Bacterial Agent					
			Benzyl-(C12-C16 Alkyl)-Dimethyl-Ammonium Chloride	68424-85-1	30.00000	0.00602	
			Glutaraldehyde	111-30-8	10.00000	0.00201	
			Ethanol	64-17-5	5.00000	0.00078	
SCAL16486A	Nalco Champion	Scale Inhibitor					
			Ethylene Glycol	107-21-1	30.00000	0.00171	
			Amine Triphosphate	Proprietary	30.00000	0.00153	
AI-303	U.S. Well Services, LLC	Acid Corrosion Inhibitors					
			Ethylene glycol	107-21-1	40.00000	0.00025	
			Cinnamaldehyde	104-55-2	20.00000	0.00009	
			Formic acid	64-18-6	20.00000	0.00009	
			Butyl cellosolve	111-76-2	20.00000	0.00008	
			Polyether	60828-78-6	10.00000	0.00004	
			Acetophenone,thiourea,formaldehyde polymer	68527-49-1	5.00000	0.00002	

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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JACKSON SURVEYING

INC.

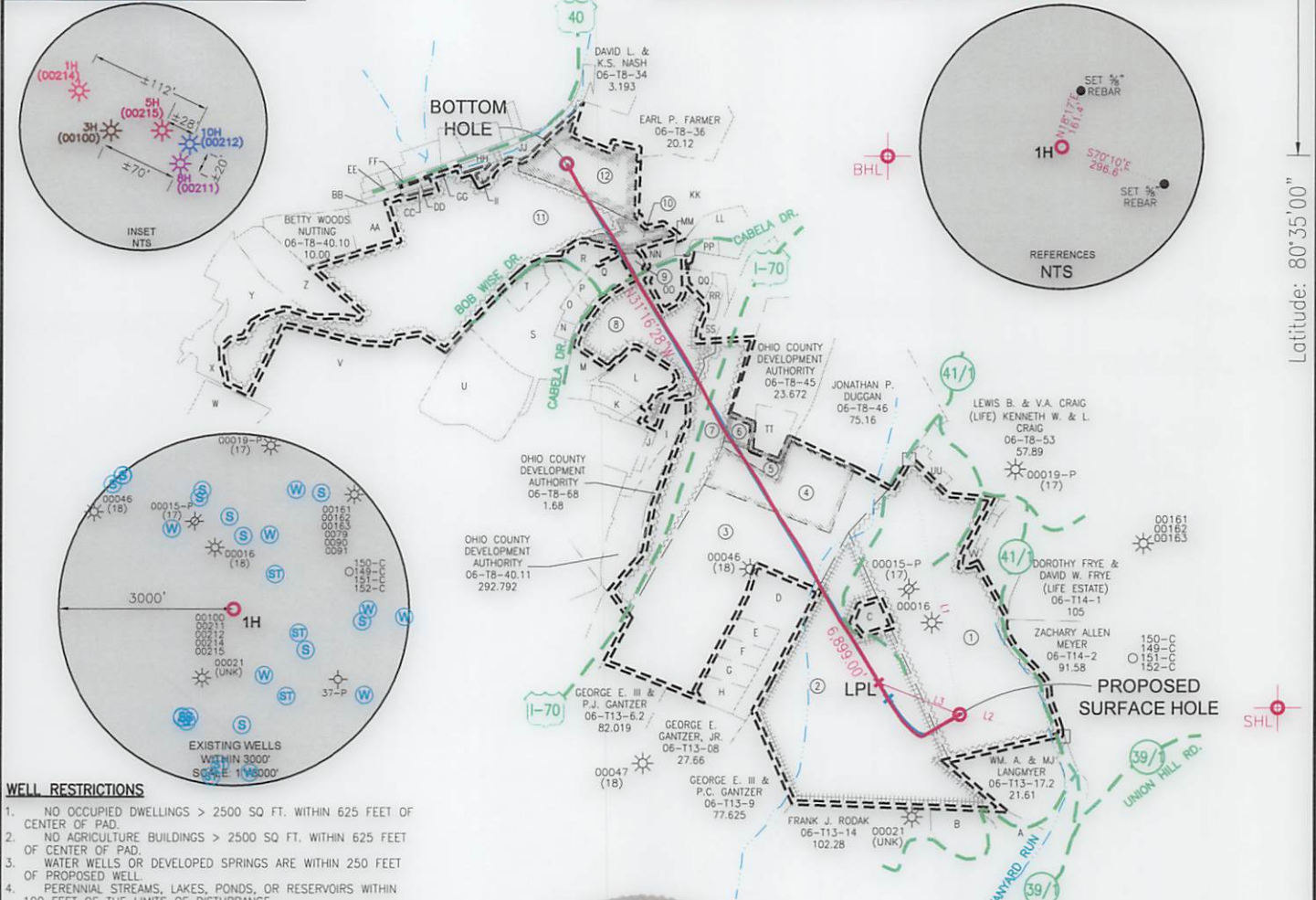
P.O. Box 1460
677 W. Main St.
Clarksburg, WV 26302
304-623-5851

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,160.625 EASTING: 535,412.690
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,216.778 EASTING: 535,165.173
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,435,070.012 EASTING: 534,039.322



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,160.614 EASTING: 535,412.717
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,272.781 EASTING: 535,131.383
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,435,070.674 EASTING: 534,040.773

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 11°19'51" W	2969.44'	SHL TO LANDMARK	SPIKE FOUND
L2	S 77°59'02" E	1210.94'	SHL TO LANDMARK	CORNER FENCE POST
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 68°15'47" W	993.67'	1316.70'	SHL TO LP



WELL RESTRICTIONS

- NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
- PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
- 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

- 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.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- 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. 708

David L. Jackson



2000 0 2000

GRAPHIC SCALE IN FEET

COMPANY: **SWN** Production Company, LLC

(+) 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)

DEBORAH CRAIG OHIO

OPERATOR'S WELL #: 1H

API WELL #: 47 STATE 069 COUNTY 00214 PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: TANYARD RUN OF MIDDLE WHEELING CREEK ELEVATION: 1329.3'

DISTRICT: TRIADELPHIA COUNTY: OHIO QUADRANGLE: VALLEY GROVE, WV

SURFACE OWNER: DEBORAH ANN CRAIG AND SETH COLLIN CRAIG ACREAGE: ±85.045

OIL & GAS ROYALTY OWNER: DEBORAH ANN CRAIG AND SETH COLLIN CRAIG ACREAGE: ±85.045

DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) ASDRILLED

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,532 TVD 13,928 TMD

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

LEGEND:	— SURVEYED BOUNDARY	— DRILLING UNIT
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— LEASE BOUNDARY	— ASDRILLED PATH
★ EXISTING / PRODUCING WELLHEAD	— PROPOSED PATH	
LPL★ LANDING POINT LOCATION		
⊙ EXISTING WATER WELL		
⊙ EXISTING SPRING		



REVISIONS:	DATE: 09-08-2017
	DRAWN BY: N. MANO
	SCALE: 1" = 2000'
	DRAWING NO:
	WELL LOCATION PLAT

**JACKSON SURVEYING
INC.**

P.O. Box 1460
677 W. Main St.
Clarksburg, WV 26302
304-623-5851

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS			
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	DEBORAH ANN CRAIG & SETH COLLIN CRAIG (S/R)	06-T13-16	85.045
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
2	JOHN M. REIHNER & ROBYN R. REIHNER (S)	06-T13-15	96.955
3	GREGORY R. GANTZER & MARY REBECCA GANTZER (S)	06-T13-07	66.030
4	GEORGE E. III & PATRICIA C. GANTZER (S)	06-T8-49	18.400
5	OHIO COUNTY DEVELOPMENT AUTHORITY (S)	06-T8-49.2	2.350
6	OHIO COUNTY DEVELOPMENT AUTHORITY (S)	06-T8-49.1	2.990
7	GREGORY R. GANTZER & MARY REBECCA GANTZER, GEORGE E. III & PATRICIA C. GANTZER, OHIO COUNTY DEVELOPMENT AUTHORITY & CABELLAS WHOLESale, INC. (S)	1-70	25.725
8	CABELAS WHOLESale, INC. (S)	06-T8-40.17	30.520
9	OHIO COUNTY DEVELOPMENT AUTHORITY (S)	06-T8-40.38	1.160
10	OHIO COUNTY DEVELOPMENT AUTHORITY (S)	06-T8-40.20	6.590
11	OHIO COUNTY DEVELOPMENT AUTHORITY (S)	06-T8-40	97.780
12	GAIL W. KAHLE (S)	06-T8-38	19.028

ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	WILLIAM & MARY J. LANGMYER	06-T13-14.1	3.60
B	BRIANNA DAWN RODAK	06-T13-14.2	8.117
C	TIMOTHY J. FEIOCK	06-T13-15.1	2.045
D	GEORGE E. III & PATRICIA C. GANTZER	06-T13-27	16.288
E	RUSSELL & AMY GANTZER	06-T13-7.2	2.8
F	WILLIAM A. ISALY, JR.	06-T13-7.1	2.8
G	GREGORY R. GANTZER & MARY REBECCA GANTZER	06-T13-7.3	2.8
H	RUSSELL F. GANTZER	06-T13-7.4	2.8
I	OHIO COUNTY DEVELOPMENT AUTHORITY	06-T8-40.13	5.15
J	OHIO COUNTY DEVELOPMENT AUTHORITY	06-T8-40.18	3.34
K	OHIO COUNTY DEVELOPMENT AUTHORITY	06-T8-40.50	LOT 3A
L	OHIO COUNTY DEVELOPMENT AUTHORITY	06-T8-40.51	6.39
M	OHIO COUNTY DEVELOPMENT AUTHORITY	06-T8-40.48	LOT 1A
N	WENDY'S EASTERN MGT GP INC.	06-T8-40.37	1.06
O	MCDONALD'S USA LLC	06-T8-40.36	1.2
P	BOB EVANS FARMS	06-T8-40.33	1.6
Q	GREER LAND CO.-WHEELING LLC	06-T8-40.39	LOT 3C
R	OHIO COUNTY DEVELOPMENT AUTHORITY	06-T8-40.44	LOT 3D
S	OHIO COUNTY DEVELOPMENT AUTHORITY	06-T8-40.11	292.792
T	RSV WHEELING LLC	06-T8-40.58	2.96
U	WALMART REAL ESTATE	06-T8-40.30	21.61
V	OHIO COUNTY DEVELOPMENT AUTHORITY	06-T8-40.5	174.636
W	THOMAS J. HOWARD	06-T8-42	11.29
X	CHRISTOPHER PAGANO & ALYCE F. PAGANO	06-T8-62	5.169
Y	MARCIA KIRKLAND	06-T8-41.1	12.437
Z	MICHAEL E. RICHARDS & LEROY E. RICHARDS	06-T8-41.2	13.3245
AA	BETTY WOODS NUTTING	06-T8-40.62	4.925
BB	CONTRACT DEVELOPMENT, INC.	06-T8-57.1	1.008
CC	PHK LLC.	06-T8-57	0.332
DD	PHK LLC.	06-T8-55	0.8
EE	CONTRACT DEVELOPMENT CO.	06-T8-51	0.615
FF	PHK LLC.	06-T8-3.11	0.506
GG	PHK LLC.	06-T8-3.13	0.4176
HH	L.D. REALTY, INC.	06-T8-58.1	1.0615
II	PHK LLC.	06-T8-59	0.537
JJ	PHK LLC.	06-T8-58	2.65
KK	OHIO COUNTY COMMISSION	06-T8-40.1	19.14
LL	BROWNSVILLE CENTURY LLC	06-T8-40.66	2.00
MM	OHIO COUNTY DEVELOPMENT AUTHORITY	06-T8-40.16	0.125
NN	WESBANCO	06-T8-40.43	LOT 3A
OO	P.T.M. L.P.	06-T8-40.59	2.53
PP	O.C.D.A. BUILDING ONE	06-T8-40.34	0.85
QQ	APPALACHIAN LAND & LEASING COMPANY LLC	06-T8-40.25	1.82
RR	RUSSELL STOVER CANDIES, INC.	06-T8-40.24	1.25
SS	CABELAS VENTURES, INC.	06-T8-40.19	1.85
TT	WV DOT	06-T8-45.8	4.39
UU	KENNETH BRYAN CRAIG	06-T8-53.2	2.0
VV	DEBORAH ANN CRAIG & SETH COLLIN CRAIG	06-T8-50	1.924

REVISIONS:	COMPANY:	 	
	OPERATOR'S	DEBORAH CRAIG OHI	
	WELL #:	1H	
	DISTRICT:	COUNTY:	STATE:
	TRIADELPHIA	OHIO	WV
			DATE: 09-08-2017
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 2