

Via Federal Express

January 25, 2016

Ms. Laura Cooper  
Office of Oil & Gas  
601 57<sup>th</sup> Street  
Charleston WV 25304

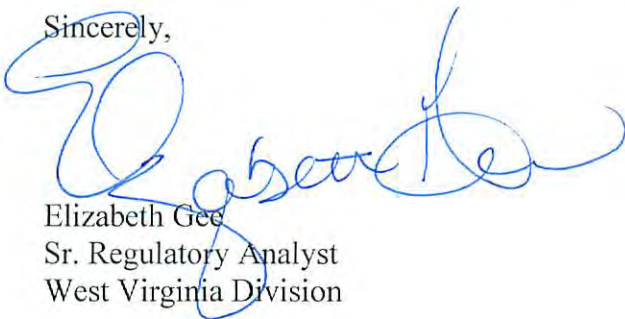
**RE:** Form WR-35 and WR-36 Filing      Well: Alice Edge OHI 6H  
API: 47-069-00184

Dear Ms. Cooper:

Please find enclosed form WR-35 Well Operator's Report of Well Work and WR-36 Well Operator's Report of Initial Gas-Oil Ratio, with supporting documentation for the subject well referenced above.

If you have any questions or require additional information, please contact me via email at [liz\\_gee@swn.com](mailto:liz_gee@swn.com) or telephone at (832) 796-7632.

Sincerely,



Elizabeth Gee  
Sr. Regulatory Analyst  
West Virginia Division

/lg  
Encl.

Received  
Office of Oil & Gas  
JAN 27 2016

*Handwritten initials and date:*  
E. TSO  
2.22.16

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

API 47 - 069 - 00184 County OHIO District LIBERTY  
Quad VALLEY GROVE Pad Name ALICE EDGE-OHI-PAD1 Field/Pool Name PANHANDLE  
Farm name ALICE MAE EDGE Well Number ALICE EDGE OHI 6H  
Operator (as registered with the OOG) SWN PRODUCTION COMPANY LLC  
Address PO BOX 12359 City SPRING State TX Zip 77397-2359

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4438933.608 Easting 537469.383  
Landing Point of Curve Northing 4438602.673 Easting 537361.800  
Bottom Hole Northing 4435341.929 Easting 538804.263

Elevation (ft) 1199' 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 11/20/2014 Date drilling commenced 04/07/2015 Date drilling ceased 05/16/2015  
Date completion activities began 08/11/2015 Date completion activities ceased 11/03/2015  
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 400' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 737' Void(s) encountered Received N  
Coal depth(s) ft 589' Cavern(s) encountered (Y/N) depths Office of Oil & Gas N  
Is coal being mined in area (Y/N) N

JAN 27 2016

Reviewed by:

*CB*

03/04/2016

API 47-069 - 00184 Farm name ALICE MAE EDGE Well number ALICE EDGE OHI 6H

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'	N	J-55/ 94#		Y
Surface	17.5	13.375	667'	N	J-55/ 54.50#		Y
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	2124'	N	J-55/ 40#		Y, 32 BBLS TO SURFACE
Intermediate 2							
Intermediate 3							
Production	8.75 TO 8.50	5.5	18596'	N	P-110/23#		Y, 50 BBLS TO SURFACE
Tubing		2.375	6763'	N	L-80/4.70#		N
Packer type and depth set		N/A					

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	A	GROUT	19.3	1.20		SURFACE	24
Surface	A	608	15.6	1.20	729.6	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	A	802	15.7	1.19	954.38	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	A	962/2767	15.3/15.6	1.20/1.19	1154.4/3292.73	SURFACE	24
Tubing							

Drillers TD (ft) 18596' Loggers TD (ft) 18596'

Deepest formation penetrated MARCELLUS Plug back to (ft) NA

Plug back procedure NA

Kick off depth (ft) 5855'

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 \_\_\_\_\_

ALL CASING STRINGS RAN WITH A CENTRALIZER AT A MINIMUM OF 1 PER EVERY 3RD JOINT OF CASING

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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API 47- 069 - 00184 Farm name ALICE MAE EDGE Well number ALICE EDGE OHI 6H

PERFORATION RECORD

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

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	ATTACHED					
					Received Office of Oil & Gas			

Please insert additional pages as applicable.

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API 47- 069 - 00184 Farm name ALICE MAE EDGE Well number ALICE EDGE OHI 6H

PRODUCING FORMATION(S)	DEPTHS		
MARCELLUS	6402.38'	TVD	6709.59' MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface \_\_\_\_\_ psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST NO TEST PERFORM \_\_\_\_\_ hrs

OPEN FLOW Gas 4220 mcfpd Oil 391 bpd NGL \_\_\_\_\_ bpd Water 491 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		
		SEE ATTACHED			

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Please insert additional pages as applicable.

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

Logging Company NINE ENERGY SERVICES  
Address 16945 NORTHCHASE DR, STE 1600 City HOUSTON State TX Zip 77060

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

Stimulating Company DOWELL SCHLUMBERGER  
Address 1121 BUSCHONG ST City HOUSTON State TX Zip 77039

Please insert additional pages as applicable.

Completed by ELIZABETH GEE Telephone 832-796-7632  
Signature  Title SR. REGULATORY ANALYST Date 01/25/2016

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

03/04/2016

**ALICE EDGE OHI 6 - PERFORATION RECORD**

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	8/10/2015	18,334	18,467	33
2	8/10/2015	18,137	18,270	33
3	8/11/2015	17,940	18,073	33
4	8/11/2015	17,743	17,875	33
5	8/11/2015	17,546	17,677	33
6	8/12/2015	17,349	17,482	33
7	8/12/2015	17,086	17,285	42
8	8/13/2015	16,824	17,023	42
9	8/13/2015	16,560	16,760	42
10	8/14/2015	16,295	16,496	42
11	8/14/2015	16,031	16,231	42
12	8/15/2015	15,767	15,967	42
13	8/15/2015	15,502	15,703	42
14	8/16/2015	15,238	15,438	42
15	8/16/2015	14,972	15,179	42
16	8/16/2015	14,709	14,914	42
17	8/17/2015	14,445	14,645	42
18	8/17/2015	14,181	14,381	42
19	8/18/2015	13,916	14,117	42
20	8/19/2015	13,652	13,852	42
21	8/19/2015	13,394	13,588	42
22	8/20/2015	13,123	13,324	42
23	8/20/2015	12,859	13,059	42
24	8/20/2015	12,593	12,795	42
25	8/21/2015	12,330	12,530	42
26	8/21/2015	12,068	12,266	42
27	8/21/2015	11,802	12,002	42
28	8/22/2015	11,537	11,737	42
29	8/23/2015	11,273	11,473	42
30	8/23/2015	11,009	11,209	42
31	8/24/2015	10,744	10,944	42
32	8/24/2015	10,480	10,680	42
33	8/24/2015	10,215	10,416	42
34	8/24/2015	9,951	10,151	42
35	8/25/2015	9,687	9,887	42
36	8/25/2015	9,422	9,628	42
37	8/25/2015	9,158	9,358	42
38	8/26/2015	8,899	9,094	42
39	8/26/2015	8,629	8,830	42
40	8/26/2015	8,365	8,565	42
41	8/26/2015	8,101	8,301	42
42	8/27/2015	7,836	8,037	42
43	8/27/2015	7,572	7,772	42
44	8/27/2015	7,308	7,508	42
45	8/27/2015	7,043	7,244	42
46	8/28/2015	6,779	6,979	42

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**ALICE EDGE OHI 6 - STIMULATION INFORMATION**

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	8/10/2015	2	8,480	9,190	3,816	274,760	5,597	
2	8/10/2015	2	7,852	9,162	3,653	562,800	9,014	
3	8/11/2015	2	8,064	9,004	4,445	563,320	8,939	
4	8/11/2015	2	8,305	9,250	4,678	562,440	9,623	
5	8/11/2015	2	8,000	9,269	4,368	564,300	9,504	
6	8/12/2015	2	7,958	9,147	4,300	558,220	8,633	
7	8/12/2015	2	8,725	9,239	4,764	753,940	11,030	
8	8/13/2015	2	8,723	9,278	4,513	747,500	12,040	
9	8/13/2015	2	8,635	9,274	4,685	752,200	10,431	
10	8/14/2015	2	8,721	9,254	4,669	750,320	10,869	
11	8/14/2015	2	8,447	9,249	4,462	751,960	10,102	
12	8/15/2015	2	8,730	9,206	4,576	755,320	10,448	
13	8/15/2015	2	8,584	9,296	4,486	544,840	9,119	
14	8/16/2015	2	8,409	9,029	4,576	743,160	11,456	
15	8/16/2015	2	8,652	9,259	4,986	748,660	10,294	
16	8/16/2015	2	8,708	9,261	4,806	749,280	10,177	
17	8/17/2015	2	8,465	9,206	4,771	750,920	10,188	
18	8/17/2015	2	8,488	9,292	4,437	671,840	9,700	
19	8/18/2015	2	8,418	9,212	4,463	753,240	12,296	
20	8/19/2015	2	8,348	9,232	4,804	750,100	10,678	
21	8/19/2015	2	8,588	9,330	4,704	750,800	10,570	
22	8/20/2015	2	8,514	9,278	4,685	639,400	9,396	
23	8/20/2015	2	8,493	9,199	4,898	749,820	10,575	
24	8/20/2015	2	8,455	9,290	4,810	753,560	10,488	
25	8/21/2015	2	8,340	9,217	4,853	747,220	9,907	
26	8/21/2015	2	8,070	9,198	4,768	751,080	10,325	
27	8/21/2015	2	8,263	9,183	4,774	751,100	9,793	
28	8/22/2015	2	8,107	9,265	4,644	751,260	10,669	
29	8/23/2015	2	8,203	9,280	4,892	752,080	10,077	
30	8/23/2015	2	8,178	9,181	4,630	720,400	10,549	
31	8/24/2015	2	8,082	9,102	4,892	749,440	10,130	
32	8/24/2015	2	7,789	8,874	4,862	758,680	10,715	
33	8/24/2015	2	7,970	8,953	4,778	750,320	10,218	
34	8/24/2015	2	8,056	9,049	4,968	747,240	10,097	
35	8/25/2015	2	7,951	9,082	4,968	749,500	10,124	
36	8/25/2015	2	7,656	8,352	4,685	752,220	10,272	
37	8/25/2015	2	7,608	7,912	4,778	752,600	10,657	
38	8/26/2015	2	7,645	8,768	4,704	750,040	10,126	
39	8/26/2015	2	7,573	8,472	4,849	752,760	10,153	
40	8/26/2015	2	7,960	8,873	4,625	750,180	10,424	
41	8/26/2015	2	7,580	9,067	4,628	751,920	10,217	

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42	8/27/2015	2	7,509	8,537	4,739	740,820	9,870	
43	8/27/2015	2	7,445	8,900	4,722	751,380	9,970	
44	8/27/2015	2	7,557	9,182	4,704	751,280	10,209	
45	8/27/2015	2	7,336	9,101	4,666	749,880	10,009	
46	8/28/2015	2	7,268	8,643	4,536	755,840	10,130	
Grand total			8,150	9,330	4,653	32,689,940	465,808	

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### ALICE EDGE OHI 6H

LITHOLOGY/FORMATION	TOP DEPTH, TVD (FT)	BOTTOM DEPTH, TVD (FT)	TOP DEPTH, MD (FT)	BOTTOM DEPTH, MD (FT)	QUANTITY AND TYPE OF FLUID
Base of Fresh Water	N.A.	400.00	N.A.	400.00	
Top of Salt Water	737.00	N.A.	737.00	N.A.	
Pittsburgh Coal	588.99	594.99	589.00	595.00	
Big Injun (ss)	1828.98	2284.75	1835.00	2295.00	
Berea (siltstone)	2284.75	5782.98	2295.00	5836.00	
Rhinestreet (shale)	5782.98	6061.12	5836.00	6128.33	
Cashaqua (shale)	6061.12	6132.58	6128.33	6209.57	
Middlesex (shale)	6132.58	6210.69	6209.57	6307.54	
Burket (shale)	6210.69	6231.64	6307.54	6335.92	
Tully (ls)	6231.64	6266.96	6335.92	6386.96	
Mahantango (shale)	6266.96	6402.38	6386.96	6709.59	
Marcellus (shale)	6402.38	N.A.	6709.59	N.A.	

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/10/2015
Job End Date:	8/28/2015
State:	West Virginia
County:	Ohio
API Number:	47-069-00184-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	Alice Edge 6H
Longitude:	-80.56040200
Latitude:	40.09986000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	6,556
Total Base Water Volume (gal):	19,566,993
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
Ingredients shown above are subject to 29 CFR 1910.1200(f) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
PROPPANT TRANSPORT	Schlumberger	Corrosion Inhibitor, Acid, Breaker, Gelling Agent, Friction Reducer, Propping Agent, Fluid Loss Additive					
			Water (Including Mix Water Supplied by Client)*	NA		83.14155	
			Quartz, Crystalline silica	14808-60-7	98.66688	16.63370	
			Hydrochloric acid	7647-01-0	0.92372	0.15573	
			Ammonium sulfate	7783-20-2	0.21044	0.03548	
			Acrylamide, 2-acrylamido-2-methylpropanesulfonic acid, sodium salt polymer	38193-60-1	0.15532	0.02619	
			Polymer of 2-acrylamido-2-methylpropanesulfonic acid sodium salt and methyl acrylate	136793-29-8	0.01664	0.00281	
			Urea	57-13-6	0.01022	0.00172	
			Guar gum	9000-30-0	0.00631	0.00106	
			Sodium sulfate	7757-82-6	0.00238	0.00040	
			Non-crystalline silica (impurity)	7631-86-9	0.00214	0.00036	
			Methanol	67-56-1	0.00149	0.00025	

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		Fatty acids, tall-oil	61790-12-3	0.00104	0.00018
		Thiourea, polymer with formaldehyde and 1-phenylethanone	68527-49-1	0.00086	0.00014
		2-Propenamid (impurity)	79-06-1	0.00051	0.00009
		Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.00041	0.00007
		Propargyl alcohol	107-19-7	0.00027	0.00005
		Tetrasodium ethylenediaminetetraacetate	64-02-8	0.00026	0.00004
		Diammonium peroxidisulphate	7727-54-0	0.00019	0.00003
		Dimethyl siloxanes and silicones	63148-62-9	0.00015	0.00002
		Hexadec-1-ene	629-73-2	0.00009	0.00002
		1-Octadecene (C18)	112-88-9	0.00005	0.00001
		Decamethyl cyclopentasiloxane	541-02-6	0.00001	
		Octamethylcyclotetrasiloxane	556-67-2	0.00002	
		Dodecamethylcyclohexasiloxane	540-97-6	0.00001	
		Siloxanes and silicones, dimethyl, reaction products with silica	67762-90-7	0.00002	
		Formaldehyde	50-00-0		
		Copper(II) sulfate	7758-98-7	0.00001	

\* 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.

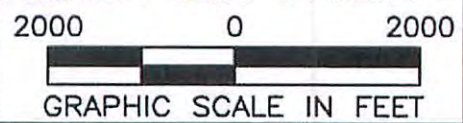
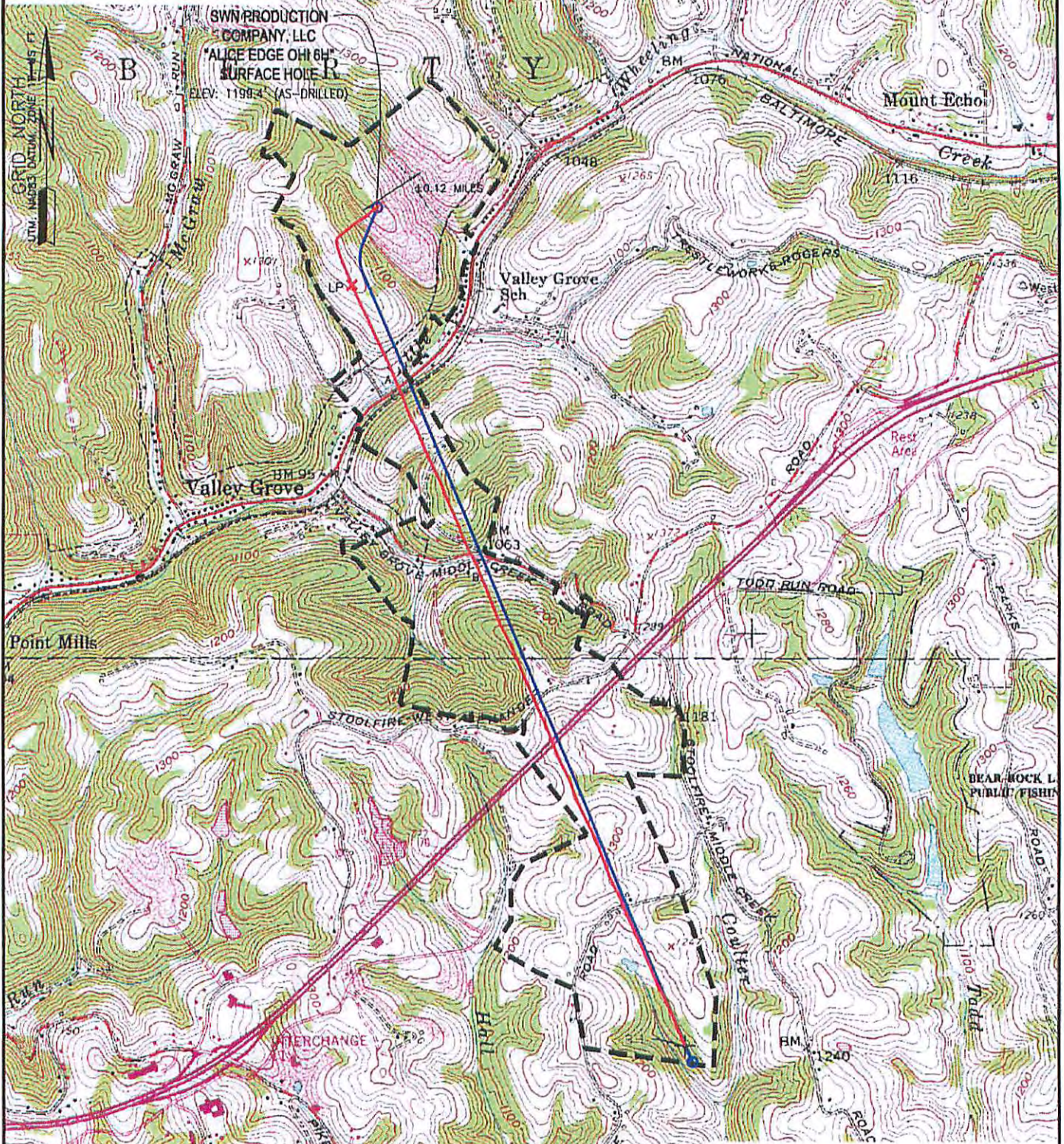
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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# THRASHER

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

**AS-DRILLED**



WELL ALICE EDGE OHI 6H AS-DRILLED  
QUAD, VALLEY GROVE, WV

<b>NAME AND DISTANCE TO THE NEAREST STREAM:</b> AN UNNAMED TRIBUTARY TO LITTLE WHEELING CREEK IS LOCATED ±0.12 MILES (NE) OF THE CENTER OF THE DRILL PAD.		<b>STREAM CROSSING COORDINATES (NAD 83):</b> A. LAT: 40.093083° / LONG: -80.559471° B. LAT: 40.086257° / LONG: -80.555573°		<b>COMPANY:</b> 	
<b>WELL RESTRICTIONS:</b> WELL PAD, LOD, & E & S CONTROL FEATURES TO PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND: >100 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO NATURALLY PRODUCING TROUT STREAM: >300 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY: >1000 FEET WELL SHL TO EXISTING WATER WELL OR DEVELOPED SPRING: >250 FEET CENTER OF PAD TO OCCUPIED DWELLING STRUCTURE: >625 FEET CENTER OF PAD TO AGRICULTURAL BUILDINGS LARGER THAN 2500 SQ FT: >625 FEET		<b>OPERATOR'S:</b> ALICE EDGE			
<b>FEMA FLOOD INFORMATION:</b> NO FLOOD ZONES.		<b>WELL #:</b> OHI 6H		<b>LOCATION:</b> LIBERTY DISTRICT, OHIO, WEST VIRGINIA	
<b>LEGEND:</b> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ✱ EXISTING / PRODUCING WELLHEAD ✕ ABANDONED WELL ✕ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR ○ EXISTING SPRING ○ EXISTING WATER WELL — ACCESS ROAD — ACCESS ROAD TO PREV. SITE — HIGHWAY/INTERSTATE — COUNTY ROAD		<b>AS-DRILLED SURFACE HOLE LOCATION:</b> GEOGRAPHIC (NAD83): LATITUDE: 40.080463° LONGITUDE: -80.500121°		DATE: 01-25-2016	
JAN 27 2016		<b>AS-DRILLED BOTTOM HOLE LOCATION:</b> GEOGRAPHIC (NAD83): LATITUDE: 40.078080° LONGITUDE: -80.499994°		DRAWN BY: KJP SCALE: 1" = 2000' DRAWING NO: 030-2725 TOPOGRAPHIC MAP	
<b>REVISIONS:</b>		03/04/2016		PROPERTY NUMBER 2501161724 PAD ID 3001155602	

Latitude: N 40°07'30"

5340'

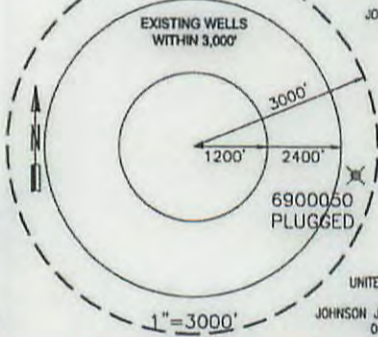
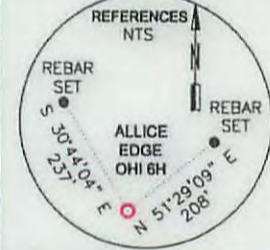
# THRASHER

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 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.

TRACT	SURFACE OWNER(S) / ROYALTY OWNER(S)	TAX PARCEL	ACRES	LEASE NO.
1	ALICE MAE EDGE	03-L11-23	103.0	1-292590-000
2	LYNN & YVONNE REUSSER	03-L11-21	70.90	47-000579-000
3	KENNETH LEE COOPER C/D REUSSER	08-VG4-3	16.59	47-000579-000
4	DONALD & PEGGY PLETCHER	03-L14-56	7.473	47-000029-001
5	DOUGLAS EDWARD FARMER	03-L14-57	50.56	1-292587-000
6	DOUGLAS EDWARD FARMER	03-L14-57.1	0.539	47-000365-000
7	MARY RUTH FISHER	03-L14-57.4	6.90	47-002569-000
8	NANCY L & JOHN W GEARY	03-L14-15.2	5.957	47-000407-000
9	EARL F & GERALDINE PARSONS	03-L14-15	52.08	1-256025-000
10	JAMES N AND ANNA M SENGEWALT	03-L14-15.6	0.347	47-000392-000
11	PATRICIA A ROSENSTEIN ET AL	03-L14-16	19.290	47-002005-001-3
12	THOMAS R MILLER ET AL	03-L14-26	26.15	1-329207-000
13	STEPHEN L & TAMMY J MILLER	03-L14-26.3	1.15	1-313826-000
14	SCOTT A BLACK	06-14-7	36.707	1-385579-000
15	FREDERICK W DAGUE	06-19-45.1	4.7272	1-385595-001
16	JOHN M & DAVID L HENDERSON	06-19-34.3	51.00	47-000085-001-2
17	FREDERICK W DAGUE	06-13-45	114.7878	1-385595-001



**AS-DRILLED**  
SURFACE HOLE LOCATION (SHL):  
UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,438,933.608  
EASTING: 537,469.383

**AS-DRILLED**  
LANDING POINT LOCATION (LPL):  
UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,438,602.673  
EASTING: 537,361.800

**AS-DRILLED**  
BOTTOM HOLE LOCATION (BHL):  
UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,435,341.929  
EASTING: 538,804.263

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 *NOTS. W.P. 11/29/16*



(+) 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 SURVEY SOURCE OF ELEVATION: GRADE GPS (NAVD 88, US FT)

COMPANY: BHL SWN Production Company, LLC

ALICE EDGE OPERATOR'S WELL #: OHI 6H

API WELL #: 47 STATE 069 COUNTY 00184 PERMIT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1199.4 BHL

DISTRICT: LIBERTY COUNTY: OHIO QUADRANGLE: VALLEY GROVE

SURFACE OWNER: ALICE MAE EDGE ACREAGE: 103±

OIL & GAS ROYALTY OWNER: ALICE MAE EDGE ACREAGE: 576.051±

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

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,390 TVD

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:  
 ○ PROPOSED SURFACE HOLE / BOTTOM HOLE  
 \* EXISTING / PRODUCING WELLHEAD  
 ✕ ABANDONED WELL  
 ✕ PLUGGED & ABANDONED WELL  
 △ CUT CONDUCTOR

REVISIONS:  
 --- LEASE BOUNDARY  
 --- DESIGN DHP  
 --- AS-DRILLED DHP  
 --- ABANDONED PATH

DATE: 01-25-2016  
 DRAWN BY: KJP  
 SCALE: 1" = 2000'  
 DRAWING NO: 030-2725  
 WELL LOCATION PLAT

# THRASHER

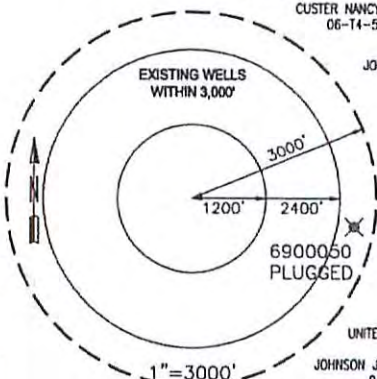
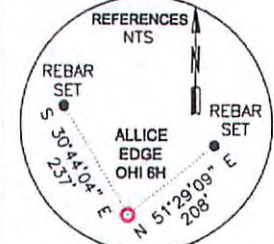
THE THRASHER GROUP, INC.  
600 WHITE OAKS BLVD.  
BRIDGEPORT, WV 26330  
PHONE 304-624-4108

**NOTES ON SURVEY**

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**SWN PRODUCTION COMPANY, LLC**  
**"ALICE EDGE OHI 6H"**  
**SURFACE HOLE**  
ELEV: 1199.4' (AS-DRILLED)

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES	LEASE NO.
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5	DOUGLAS EDWARD FARMER	03-L14-57	50.56	1-292587-000
6	DOUGLAS EDWARD FARMER	03-L14-57.1	0.539	47-000365-000
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9	EARL F & GERALDINE PARSONS	03-L14-15	52.08	1-256025-000
10	JAMES N AND ANNA M SENGWALT	03-L14-15.6	0.347	47-000392-000
11	PATRICIA A ROSENSTEIN ET AL	03-L14-16	19.280	47-002005-001-3
12	THOMAS R MILLER ET AL	03-L14-26	26.15	1-329207-000
13	STEPHEN L & TAMMY J MILLER	03-L14-26.3	1.15	1-313826-000
14	SCOTT A BLACK	06-T4-7	36.707	1-385579-000
15	FREDERICK W DAGUE	06-T9-45.1	4.7272	1-385595-001
16	JOHN M & DAVID L HENDERSON	06-T9-34.3	51.00	47-000085-001-2
17	FREDERICK W DAGUE	06-T9-45	114.7878	1-385595-001

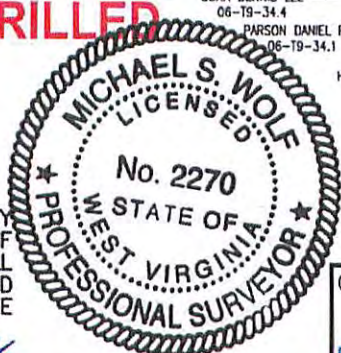


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**BOTTOM HOLE LOCATION (BHL):**  
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**AS-DRILLED**



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P.S. 2270 *MSW* 1/25/16



(+) 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 SURVEY GRADE GPS ELEVATION: (NAVD 88, US FT)

COMPANY: BHL **SWN** Production Company, LLC  
ALICE EDGE OHI 6H  
OPERATOR'S WELL #: OHI 6H  
API WELL #: 47 069 00184  
STATE COUNTY PERMIT

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

WATERSHED: UPPER OHIO SOUTH  
DISTRICT: LIBERTY COUNTY: OHIO  
SURFACE OWNER: ALICE MAE EDGE  
OIL & GAS ROYALTY OWNER: ALICE MAE EDGE

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

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,390 TVD

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:	REVISIONS:	DATE:
○ PROPOSED SURFACE HOLE / BOTTOM HOLE		01-25-2016
⊗ EXISTING / PRODUCING WELLHEAD	--- LEASE BOUNDARY	
⊗ ABANDONED WELL	--- DESIGN DHP	
⊗ PLUGGED & ABANDONED WELL	--- AS-DRILLED DHP	
△ CUT CONDUCTOR	--- ABANDONED PATH	
		DRAWN BY: KJP
		SCALE: 1" = 2000'
		DRAWING NO: 030-2725
		WELL LOCATION PLAT