

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

API 47 - 069 - 00187 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 210H
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 4438944.044 Easting 537470.013
Landing Point of Curve Northing 4438968.434 Easting 538147.789
Bottom Hole Northing 4435777.489 Easting 539333.396

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 04/09/2015 Date drilling ceased 06/18/2015
Date completion activities began 09/21/2015 Date completion activities ceased 11/06/2015
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 _____
Salt water depth(s) ft 737' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 589' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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Reviewed by
EB 2-22-16
03/04/2016

API 47-069 - 00187 Farm name ALICE MAE EDGE Well number ALICE EDGE OHI 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'	N	J-55/ 94#		Y
Surface	17.5	13.375	630'	N	J-55/ 54.50#		Y, 52 BBLS TO SURFACE
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	2148'	N	J-55/ 40#		Y, 39 BBLS TO SURFACE
Intermediate 2							
Intermediate 3							
Production	8.75 TO 8.50	5.5	18490'	N	P-110/23#		Y
Tubing		2.375	7256'	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 ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	A	GROUT	19.3	1.19		SURFACE	24
Surface	A	579	15.6	1.19	689.01	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	A	793	15.7	1.19	943.67	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	A	960/2886	15.6	1.20/1.19	961.2/3434.34	SURFACE	24
Tubing							

Drillers TD (ft) 18490' Loggers TD (ft) 18490'
 Deepest formation penetrated MARCELLUS Plug back to (ft) NA
 Plug back procedure NA

Kick off depth (ft) 6032'

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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PRODUCING FORMATION(S)	DEPTH(S)		
MARCELLUS	6425.22'	TVD	7179.96' 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 3667 mcfpd Oil 242 bpd NGL _____ bpd Water 476 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)
	0		0		
		SEE ATTACHED			

Please insert additional pages as applicable.

Drilling Contractor SWN DRILLING
Address PO BOX 12359 City SPRING State OK 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 01/26/2016

ALICE EDGE OHI 210 - PERFORATION RECORD

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	9/22/2015	18,243	18,375	33
2	9/22/2015	18,049	18,180	33
3	9/22/2015	17,854	17,986	33
4	9/22/2015	17,659	17,791	33
5	9/23/2015	17,400	17,596	42
6	9/23/2015	17,140	17,332	42
7	9/23/2015	16,879	17,077	42
8	9/24/2015	16,621	16,818	42
9	9/24/2015	16,364	16,558	42
10	9/24/2015	16,102	16,299	42
11	9/25/2015	15,843	16,039	42
12	9/25/2015	15,583	15,780	42
13	9/25/2015	15,323	15,520	42
14	9/25/2015	15,064	15,261	42
15	9/26/2015	14,804	15,001	42
16	9/26/2015	14,545	14,742	42
17	9/26/2015	14,285	14,484	42
18	9/27/2015	14,026	14,222	42
19	9/27/2015	13,766	13,963	42
20	9/27/2015	13,509	13,703	42
21	9/27/2015	13,247	13,444	42
22	9/28/2015	12,988	13,184	42
23	9/28/2015	12,728	12,925	42
24	9/28/2015	12,469	12,665	42
25	9/28/2015	12,204	12,406	42
26	9/29/2015	11,950	12,146	42
27	9/29/2015	11,690	11,882	42
28	9/29/2015	11,431	11,627	42
29	9/30/2015	11,171	11,368	42
30	9/30/2015	10,911	11,108	42
31	9/30/2015	10,652	10,849	42
32	10/1/2015	10,392	10,589	42
33	10/1/2015	10,133	10,330	42
34	10/1/2015	9,873	10,070	42
35	10/1/2015	9,614	9,810	42
36	10/2/2015	9,354	9,551	42
37	10/2/2015	9,095	9,291	42
38	10/2/2015	8,835	9,032	42
39	10/2/2015	8,576	8,772	42
40	10/2/2015	8,316	8,513	42
41	10/2/2015	8,057	8,253	42
42	10/3/2015	7,797	7,994	42
43	10/3/2015	7,538	7,734	42
44	10/3/2015	7,278	7,475	42

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ALICE EDGE OHI 210 - 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
42	10/3/2015	2	7,417	8,501	4,577	492,020	7,117	
43	10/3/2015	2	7,190	8,606	4,269	501,480	7,514	
44	10/3/2015	2	7,259	8,786	4,267	500,440	7,153	
Grand total		2	8,153	9,240	4,456	21,143,180	321,126	

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Hydraulic Fracturing Fluid Product Component Information Disclosure



Job Start Date:	9/22/2015
Job End Date:	10/3/2015
State:	West Virginia
County:	Ohio
API Number:	47-069-00187-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	ALICE EDGE OHI 210H
Longitude:	-80.56039300
Latitude:	40.09995500
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	6,576
Total Base Water Volume (gal):	13,487,292
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(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Proppant Transport	Schlumberger	Corrosion Inhibitor, Acid Corrosion Inhibitor, Acid, Friction Reducer, Fluid Loss Additive					
			Water (Including Mix Water Supplied by Client)*	NA		81.03798	
			Quartz, Crystalline silica	14808-60-7	98.34433	18.64807	
			Hydrochloric acid	7647-01-0	1.28268	0.24322	
			Ammonium sulfate	7783-20-2	0.19424	0.03683	
			Acrylamide, 2-acrylamido-2-methylpropanesulfonic acid, sodium salt polymer	38193-60-1	0.14337	0.02719	
			Polymer of 2-acrylamido-2-methylpropanesulfonic acid sodium salt and methyl acrylate	136793-29-8	0.01536	0.00291	
			Urea	57-13-6	0.00943	0.00179	
			Sodium sulfate	7757-82-6	0.00220	0.00042	
			Propan-2-ol	67-63-0	0.00224	0.00042	
			Silicon Dioxide	7631-86-9	0.00196	0.00037	
			Fatty acid, tall-oil reaction products with acetophenone	68188-40-9	0.00087	0.00017	
			Alcohols, C12-C16, ethoxylated	68551-12-2	0.00073	0.00014	

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		2-Propenamid (impurity)	79-06-1	0.00047	0.00009
		Isodecanol w/6-7 Moles Ethylene Oxide	26183-52-8	0.00049	0.00009
		Cinnamaldehyde	104-55-2	0.00032	0.00006
		Tetrasodium ethylenediaminetetraacetate	64-02-8	0.00024	0.00005
		Dimethyl siloxanes and silicones	63148-62-9	0.00013	0.00003
		Methanol	67-56-1	0.00014	0.00003
		Amines, tallow alkyl, ethoxylated	61791-26-2	0.00009	0.00002
		Thiourea, polymer with formaldehyde and 1-phenylethanone	68527-49-1	0.00008	0.00002
		Fatty acids, tall-oil	61790-12-3	0.00010	0.00002
		Glycols, polyethylene, monotetradecyl ether	27306-79-2	0.00003	0.00001
		Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.00004	0.00001
		Dodecyl poly(oxyethylene) ether	9002-92-0	0.00004	0.00001
		Octamethylcyclotetrasiloxane	556-67-2	0.00001	
		Copper(II) sulfate	7758-98-7	0.00001	
		Propargyl alcohol	107-19-7	0.00003	
		Dodecamethylcyclohexasiloxane	540-97-6	0.00001	
		1-Octadecene (C18)	112-88-9		
		Siloxanes and silicones, dimethyl, reaction products with silica	67762-90-7	0.00002	
		Formaldehyde	50-00-0		
		Decamethyl cyclopentasiloxane	541-02-6	0.00001	
		Hexadec-1-ene	629-73-2	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

SWN PRODUCTION COMPANY, LLC
 "ALICE EDGE OHI 210H"
 SURFACE HOLE
 ELEV: 1199.4' (AS-DRILLED)

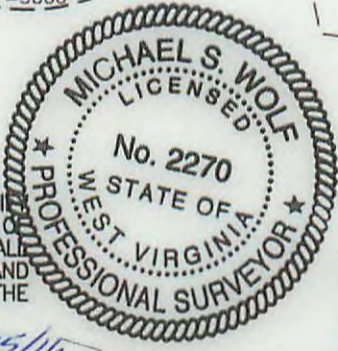
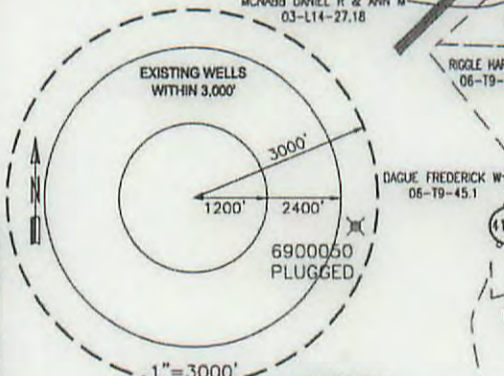
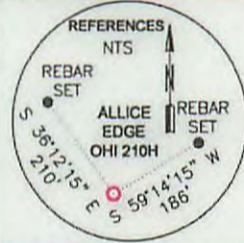
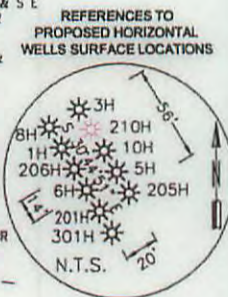
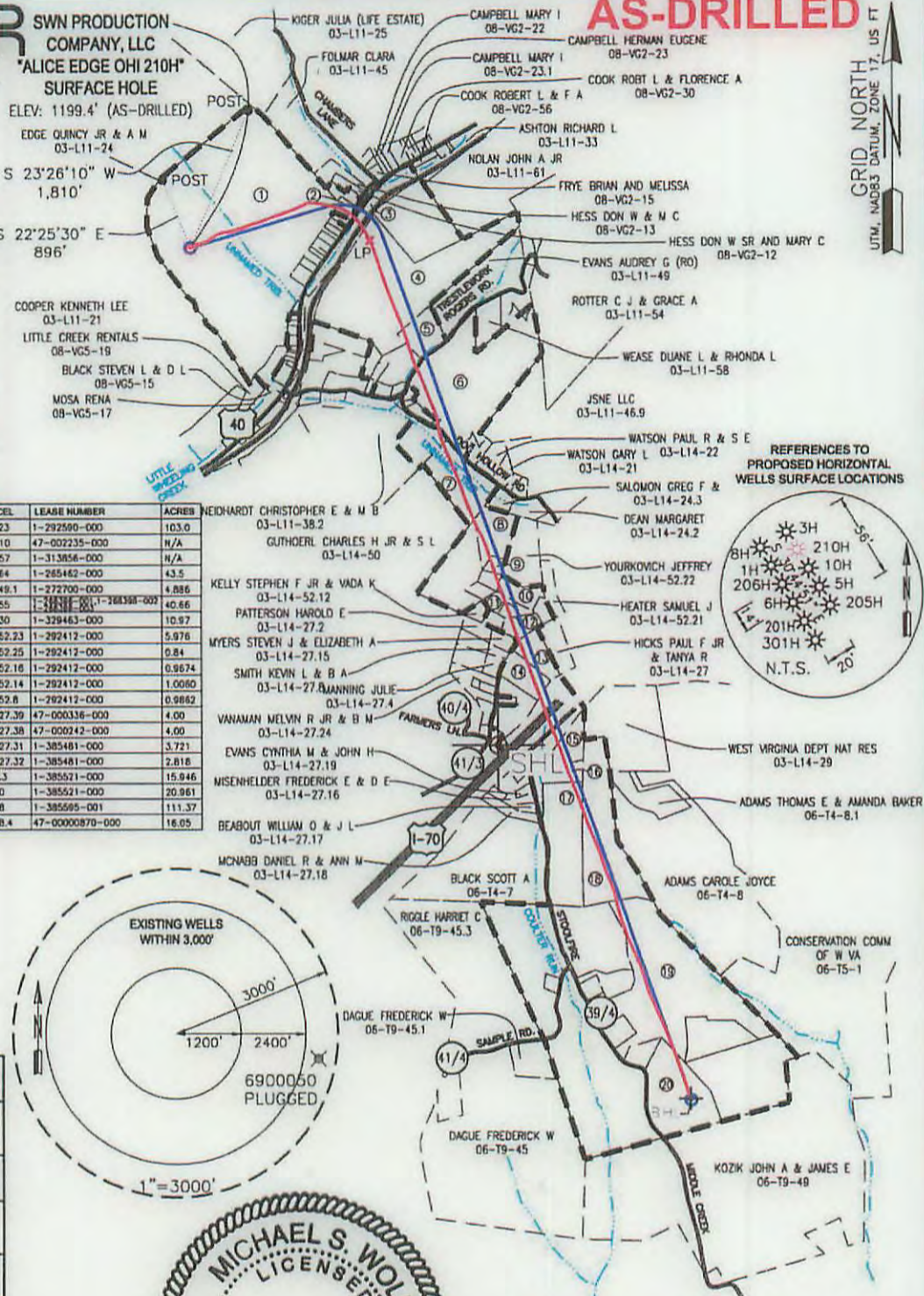
AS-DRILLED

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

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 (R)	TAX PARCEL	LEASE NUMBER	ACRES
1	ALICE MAE EDGE	03-L11-23	1-292590-000	103.0
2	JOHN O JR & CLARA STOLLAR	08-VG2-10	47-002235-000	N/A
3	FLORENCE CROFT	08-VG2-57	1-313856-000	N/A
4	CAFL J & GRACE A ROTTER	03-L11-64	1-285462-000	43.5
5	MARK A SLOAT	03-L11-49.1	1-272700-000	4.886
6	MICHAEL KILAWY	03-L11-55	1-313856-000	40.66
7	TERRY L WILLIAMSON	03-L14-30	1-329463-000	10.97
8	CHARLES & MARGARET JONES	03-L14-52.23	1-292412-000	5.976
9	CHARLES T & MARGARET E JONES	03-L14-52.25	1-292412-000	0.84
10	ROBERT H REPLY & MARGARET A SMITH	03-L14-52.16	1-292412-000	0.9674
11	ANDREA L LINDNER	03-L14-52.14	1-292412-000	1.0060
12	RONALD L & NORA M BLACK	03-L14-52.8	1-292412-000	0.9862
13	JEROME D HARRIS	03-L14-27.39	47-000336-000	4.00
14	GERALD J & SUSAN A HENDERSHOT	03-L14-27.38	47-000424-000	4.00
15	BETH A BLAZIER	03-L14-27.31	1-385481-000	3.721
16	BETH A BLAZIER	03-L14-27.32	1-385481-000	2.816
17	FREDERICK M & JANE L LEWTON	06-14-7.3	1-385521-000	15.946
18	FREDERICK M & JANE L LEWTON	06-14-10	1-385521-000	20.961
19	FREDERICK W DAGUE	06-T9-48	1-385595-001	111.37
20	PAUL & KIMBERLY RIDDLE	06-T9-48.4	47-0000879-000	16.05



AS-DRILLED

SURFACE HOLE LOCATION (SHL):
 UTM (NAD83, ZONE 17, METERS):
 NORTHING: 4,438,944.044
 EASTING: 537,470.013

AS-DRILLED

LANDING POINT LOCATION (LPL):
 UTM (NAD83, ZONE 17, METERS):
 NORTHING: 4,438,968.434
 EASTING: 538,147.789

AS-DRILLED

BOTTOM HOLE LOCATION (BHL):
 UTM (NAD83, ZONE 17, METERS):
 NORTHING: 4,435,777.489
 EASTING: 539,333.396

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 *M.S.W.* 1/25/16

COMPANY: BHL SWN Production Company, LLC

ALICE EDGE OHI 210H

OPERATOR'S WELL #: 47 069 00187

STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

MINIMUM DEGREE OF ACCURACY: 1/200

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

WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1199.4'

DISTRICT: LIBERTY COUNTY: OHIO QUADRANGLE: VALLEY GROVE

SURFACE OWNER: ALICE MAE EDGE ACREAGE: 103±

OIL & GAS ROYALTY OWNER: ALICE MAE EDGE ACREAGE: 451.2775±

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 TYP

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: DATE: 01-25-2016

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

03/04/2016

Latitude: N 40°07'30" 5330'

THRASHER SWN PRODUCTION COMPANY, LLC

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

"ALICE EDGE OHI 210H"
SURFACE HOLE
ELEV: 1199.4' (AS-DRILLED)

AS-DRILLED

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

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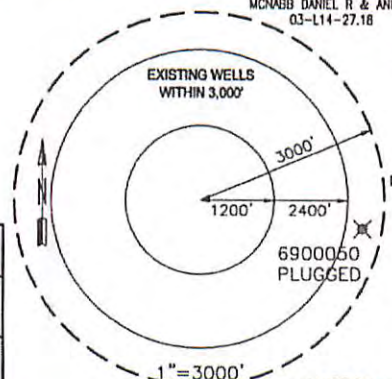
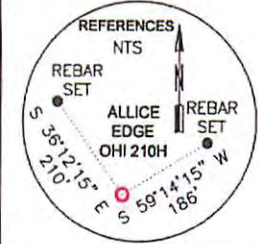
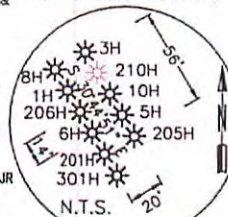
S 23°26'10" W 1,810'
S 22°25'30" E 896'

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4	CARL J & GRACE A ROTTER	03-L11-64	1-265462-000	43.5
5	MARK A SLOAT	03-L11-49.1	1-272700-000	4.886
6	MICHAEL KOLANY	03-L11-55	1-288380-000	40.66
7	TERRY L WILLIAMSON	03-L14-30	1-329463-000	10.07
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12	RONALD L & NORA M BLACK	03-L14-52.8	1-292412-000	0.8862
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18	FREDERICK M & JANE L LEWTON	06-14-10	1-385521-000	20.981
19	FREDERICK M DAGUE	06-19-48	1-385585-001	111.37
20	PAUL & KIMBERLY RIGGLE	06-19-48.4	47-00000870-000	18.05

NEIDHARDT CHRISTOPHER E & M B
03-L11-38.2
GUTHOERL CHARLES H JR & S L
03-L14-50
KELLY STEPHEN F JR & VADA K
03-L14-52.12
PATTERSON HAROLD E
03-L14-27.2
MYERS STEVEN J & ELIZABETH A
03-L14-27.15
SMITH KEVIN L & B A
03-L14-27.15
VANAMAN MELVIN R JR & B M
03-L14-27.24
EVANS CYNTHIA M & JOHN H
03-L14-27.19
MISENHOLDER FREDERICK E & D E
03-L14-27.16
BEABOUT WILLIAM O & J L
03-L14-27.17
MCNABB DANIEL R & ANH M
03-L14-27.18
BLACK SCOTT A
06-14-7
RIGGLE HARRIET C
06-19-45.3
DAGUE FREDERICK W
06-19-45.1
DAGUE FREDERICK W
06-19-45

CAMPBELL MARY I 08-VG2-22
CAMPBELL HERMAN EUGENE 08-VG2-23
CAMPBELL MARY I 08-VG2-23.1
COOK ROBERT L & F A 08-VG2-56
ASHTON RICHARD L 03-L11-33
NOLAN JOHN A JR 03-L11-61
FRYE BRIAN AND MELISSA 08-VG2-15
HESS DON W & M C 08-VG2-13
HESS DON W SR AND MARY C 08-VG2-12
EVANS AUDREY G (RO) 03-L11-49
ROTTER C J & GRACE A 03-L11-54
WEASE DUANE L & RHONDA L 03-L11-58
JSNE LLC 03-L11-46.9
WATSON GARY L 03-L14-22
03-L14-21
SALOMON GREG F & 03-L14-24.3
DEAN MARGARET 03-L14-24.2
YOURKOVICH JEFFREY 03-L14-52.72
HEATER SAMUEL J 03-L14-52.21
HICKS PAUL F JR & TANYA R 03-L14-27
WEST VIRGINIA DEPT NAT RES 03-L14-29
ADAMS THOMAS E & AMANDA BAKER 06-14-8.1
ADAMS CAROLE JOYCE 06-14-8
CONSERVATION COMM OF W VA 06-15-1
KOZIK JOHN A & JAMES E 06-19-49

REFERENCES TO PROPOSED HORIZONTAL WELLS SURFACE LOCATIONS



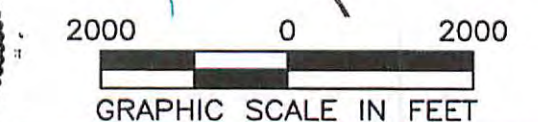
AS-DRILLED
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,438,944.044
EASTING: 537,470.013

AS-DRILLED
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,438,968.434
EASTING: 538,147.789

AS-DRILLED
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,435,777.489
EASTING: 539,333.396



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 *M.S.W. 1/25/16*



COMPANY: BHL SWN Production Company, LLC
ALICE EDGE OHI 210H

(+) 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)

OPERATOR'S WELL #: ALICE EDGE OHI 210H
API WELL #: 47 STATE 069 COUNTY 00187 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 18,464 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

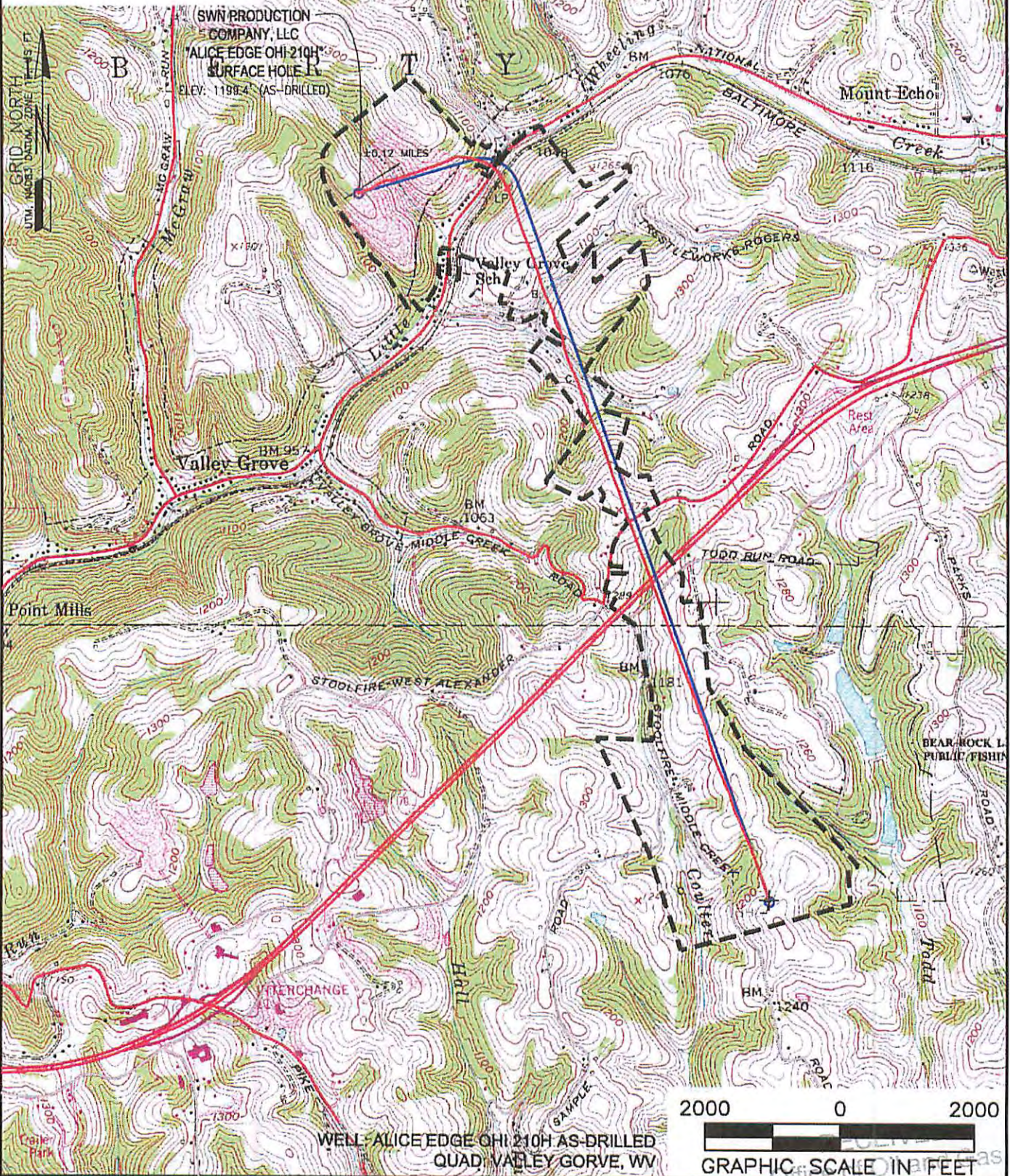
LEGEND:
○ PROPOSED SURFACE HOLE / BOTTOM HOLE
⊗ EXISTING / PRODUCING WELLHEAD
⊗ ABANDONED WELL
⊗ PLUGGED & ABANDONED WELL
△ CUT CONDUCTOR

REVISIONS:
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

AS-DRILLED



WELL- ALICE EDGE OHI 210H AS-DRILLED
QUAD: VALLEY GORVE, WV



NAME AND DISTANCE TO THE NEAREST STREAM: AN UNNAMED TRIBUTARY TO LITTLE WHEELING CREEK IS LOCATED ±0.12 MILES (NE) OF THE CENTER OF THE DRILL PAD.		STREAM CROSSING COORDINATES (NAD 83): A. LAT: 40.100894° / LONG: -80.553060° B. LAT: 40.095942° / LONG: -80.550514° C. LAT: 40.092802° / LONG: -80.549022°		COMPANY: 	
WELL RESTRICTIONS: 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		OPERATOR'S: ALICE EDGE			
FEMA FLOOD INFORMATION: NO FLOOD ZONES.		LOCATION: LIBERTY DISTRICT, OHIO, WEST VIRGINIA		WV Department of Environmental Protection	
LEGEND: ○ 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		AS-DRILLED SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.099956° LONGITUDE: -80.560393°		03/04/2016	
		AS-DRILLED BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.071342° LONGITUDE: -80.538725°		REVISIONS:	
		DATE: 01-25-2016		DRAWN BY: KJP	
		SCALE: 1" = 2000'		DRAWING NO: 030-2725	
		TOPOGRAPHIC MAP		PROPERTY NUMBER: 2501161730	