

Latitude: N 40°07'30"

5320'

THRASHER

SWN PRODUCTION COMPANY, LLC

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

"ALICE EDGE OHI 10H"
SURFACE HOLE
ELEV: 1199.4' (AS-DRILLED)

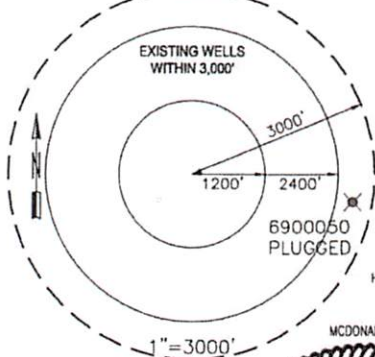
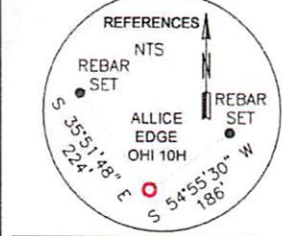
AS-DRILLED

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	W W S & MARG E PATTERSON	08-VG2-3	N/A	N/A
3	JOSEPH L & S R REED	08-VG2-2	47-000240-000	0.51
4	FLORENCE CROFT	08-VG2-57	1-313856-000	N/A
5	JOSEPH KLUISKY	08-VG5-24	47-000315-000	1.54
6	N/A	08-VG5-9999.9999	N/A	N/A
7	CARL J & GRACE A ROTTER	03-L11-64	1-265462-000	43.5
8	WILLIAM C III & D B LADERER	03-L11-34.1	47-0000562-000	3.88
9	WILLIAM C III & D B LADERER	03-L11-35.1	47-003335-000	1.33
10	WILLIAM C III & D B LADERER	03-L11-35	47-003335-000	4.89
11	ROSEMARY GRIFFITH	03-L11-59	47-002716-000	1.928
12	CHRISTOPHER E NEIDHARDT	03-L11-38.2	1-268382-000	32.365
13	CHARLES H GUTHOERL JR	03-L14-50	47-000785-000	48.816
14	SCOTT C & ALICIA PEKUNSKY	03-L14-52.5	03-L14-52.5	12.809
15	CHARLES H & SHELLY L GUTHOERL	03-L14-27.1	47-000785-000	4.602
16	CHRIS BESCHNER	03-L14-27.35	47-000241-000	5.18
17	JULIE MANNING	03-L14-27.4	47-000986-000	2.00
18	RICHARD HESTER	03-L14-27.28	47-000986-000	0.864
19	JANE W & RICHARD HESTER	03-L14-27.14	47-001452-000	1.474
20	SCOTT A BLACK	06-14-7	1-385579-000	36.707
21	FREDRICK W DAGUE	06-14-11	1-385595-001	13.354
22	JAMES F & ANN C ROSE	06-14-12	1-385577-000	1.0
23	JOHN A & JAMES E KOZIK	06-T9-49	1-292592-000	128.09



AS-DRILLED
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,438,940.392
EASTING: 537,472.247
AS-DRILLED
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,438,826.110
EASTING: 537,881.067
AS-DRILLED
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,435,389.895
EASTING: 539,147.940

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.* 1/14/16



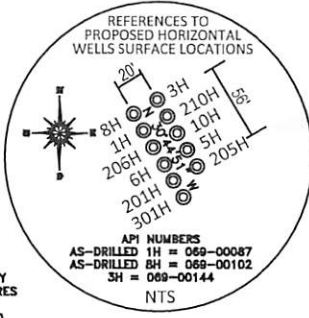
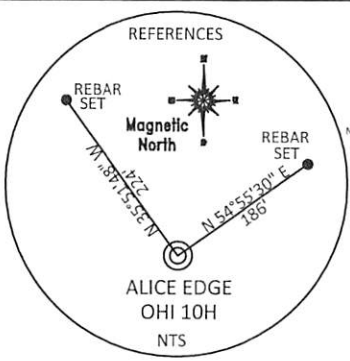
COMPANY: BHL
SWN Production Company, LLC
SWN Production Company™

(+) 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)	OPERATOR'S WELL #: ALICE EDGE OHI 10H API WELL #: 47 069 00186 STATE COUNTY PERMIT
	WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input 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"/>	WATERSHED: UPPER OHIO SOUTH DISTRICT: LIBERTY COUNTY: OHIO SURFACE OWNER: ALICE MAE EDGE OIL & GAS ROYALTY OWNER: ALICE MAE EDGE

DRILL <input checked="" type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" 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 type="checkbox"/> (SPECIFY) TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,400 TVD 19,675 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
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LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ● EXISTING / PRODUCING WELLHEAD ⊗ ABANDONED WELL ⊕ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR	--- LEASE BOUNDARY --- DESIGN DHP --- AS-DRILLED DHP --- ABANDONED PATH	REVISIONS: DATE: 01-11-2016 DRAWN BY: KJP SCALE: 1" = 2000' DRAWING NO: 030-2725 WELL LOCATION PLAT
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SWN
Production Co., LLC.
 Proposed
Alice Edge OHI 10H
 Liberty District
 Ohio County, WV

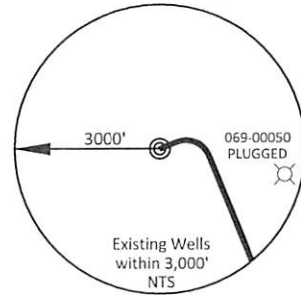


LESSOR	PARCEL	ACREAGE	LEASE NUMBER
A JOSEPH L. & S.R. REED	V62-2	0.51 ACRES	47-000240-000
B JOHN J. MOSA	V62-1	1.01 ACRES	47-000332-000
C NANCY LOUISE FREEMAN	V65-1	0.23 ACRES	47-000158-000
D FLORENCE CROFT	V62-57	2.018 ACRES	01-313856-000
E JOSEPH KLUSKEY	V65-24	1.54 ACRES	47-000315-000
F WILLIAM C. III, & D.B. LADERER	L11-34.1	3.68 ACRES	47-0000562-000
G WILLIAM C. III, & D.B. LADERER	L11-35.1	1.33 ACRES	47-003335-000
H WILLIAM C. III, & D.B. LADERER	L11-35	4.99 ACRES	47-003335-000
I ROSEMARY E. GRIFFITH	L11-59	1.93 ACRES	47-000363-000
J PAUL ROBERT LESHUK	L11-38.1	1.32 ACRES	47-002716-000
K CHARLES H. & SHELLY L. GUTHOERL	L14-27.10	4.60 ACRES	47-000785-000
L CHRIS BEISWENGER	L14-27.35	5.18 ACRES	47-000241-000
M JULIE MANNING	L14-27.40	2.00 ACRES	47-000988-000
N KATHLEEN K. CROCKARD	L14-27.30	0.763 ACRES	47-001364-000
O JUNE M. & RICHARD HESTER	L14-27.14	1.474 ACRES	47-001452-000
P FREDERICK E. & DELLA E. WISENHELDER	L14-27.12	0.432 ACRES	47-000785-000
Q ANDREW & CONNIE BURRIS	L14-27.13	2.55 ACRES	UNLEASED
R JAMES F. & ANH C. ROSE	T4-12	1.00 ACRES	01-385577-000
S RICHARD HESTER	L14-27.28	.505 ACRES	47-000988-000
T WEST VIGNIA D.O.H.	RT. 40	N/A	01-357838-000

TOP HOLE (NAD 83) N) 584503.4 E) 1671871.9 LAT.) 40°05'59.7" LONG.) 80°33'37.3" DEC. LAT.) 40.099922 DEC. LONG.) 80.560368	KOP (NAD 83) N) 584785.8 E) 1672964.6 LAT.) 40°06'02.6" LONG.) 80°33'23.3" DEC. LAT.) 40.100733 DEC. LONG.) 80.556474
TOP HOLE (NAD 27) N) 584466.4 E) 1703306.3 LAT.) 40°05'59.5" LONG.) 80°33'38.1" DEC. LAT.) 40.099849 DEC. LONG.) 80.560573	KOP (NAD 27) N) 584748.8 E) 1704399.0 LAT.) 40°06'02.4" LONG.) 80°33'24.0" DEC. LAT.) 40.100660 DEC. LONG.) 80.556680
TP (NAD 83) N) 584312.5 E) 1673125.8 LAT.) 40°05'58.0" LONG.) 80°33'21.2" DEC. LAT.) 40.099439 DEC. LONG.) 80.555878	WAY POINT 1 (NAD 83) N) 580147.9 E) 1674544.2 LAT.) 40°05'17.0" LONG.) 80°33'02.3" DEC. LAT.) 40.088053 DEC. LONG.) 80.550634
TP (NAD 27) N) 584275.5 E) 1704560.2 LAT.) 40°05'57.7" LONG.) 80°33'21.9" DEC. LAT.) 40.099366 DEC. LONG.) 80.556084	WAY POINT 1 (NAD 27) N) 580110.7 E) 1705978.5 LAT.) 40°05'16.7" LONG.) 80°33'03.0" DEC. LAT.) 40.087980 DEC. LONG.) 80.550840
WAY POINT 2 (NAD 83) N) 577672.6 E) 1675185.6 LAT.) 40°04'52.6" LONG.) 80°32'53.7" DEC. LAT.) 40.081279 DEC. LONG.) 80.548239	BOTTOM HOLE (NAD 83) N) 572758.8 E) 1677164.4 LAT.) 40°04'04.3" LONG.) 80°32'27.5" DEC. LAT.) 40.067854 DEC. LONG.) 80.540964
WAY POINT 2 (NAD 27) N) 577635.6 E) 1706619.9 LAT.) 40°04'52.3" LONG.) 80°32'54.4" DEC. LAT.) 40.081206 DEC. LONG.) 80.548445	BOTTOM HOLE (NAD 27) N) 572721.8 E) 1708598.7 LAT.) 40°04'04.0" LONG.) 80°32'28.2" DEC. LAT.) 40.067780 DEC. LONG.) 80.541170

TOP HOLE (UTM NAD 83) METER N) 4438940.3 E) 537472.2
BOTTOM HOLE (UTM NAD 83) METER N) 4435389.3 E) 539144.4
TOP HOLE (UTM NAD 83) FEET N) 14563423.4 E) 1763356.6
BOTTOM HOLE (UTM NAD 83) FEET N) 14551773.2 E) 1768843.0

REFERENCE LINES RL #1 S 81°20'44" E 1,268'
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REFERENCE NOTES
 Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records OH90 County, West Virginia JUNE 2013
 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS
 Drafted by: E.A.H.

BOORD, BENCHEK and ASSOC., INC.
 Engineering, Surveying, Construction,
 and Mining Services
 Southpointe, PA 15317 Phone: 724-746-1055

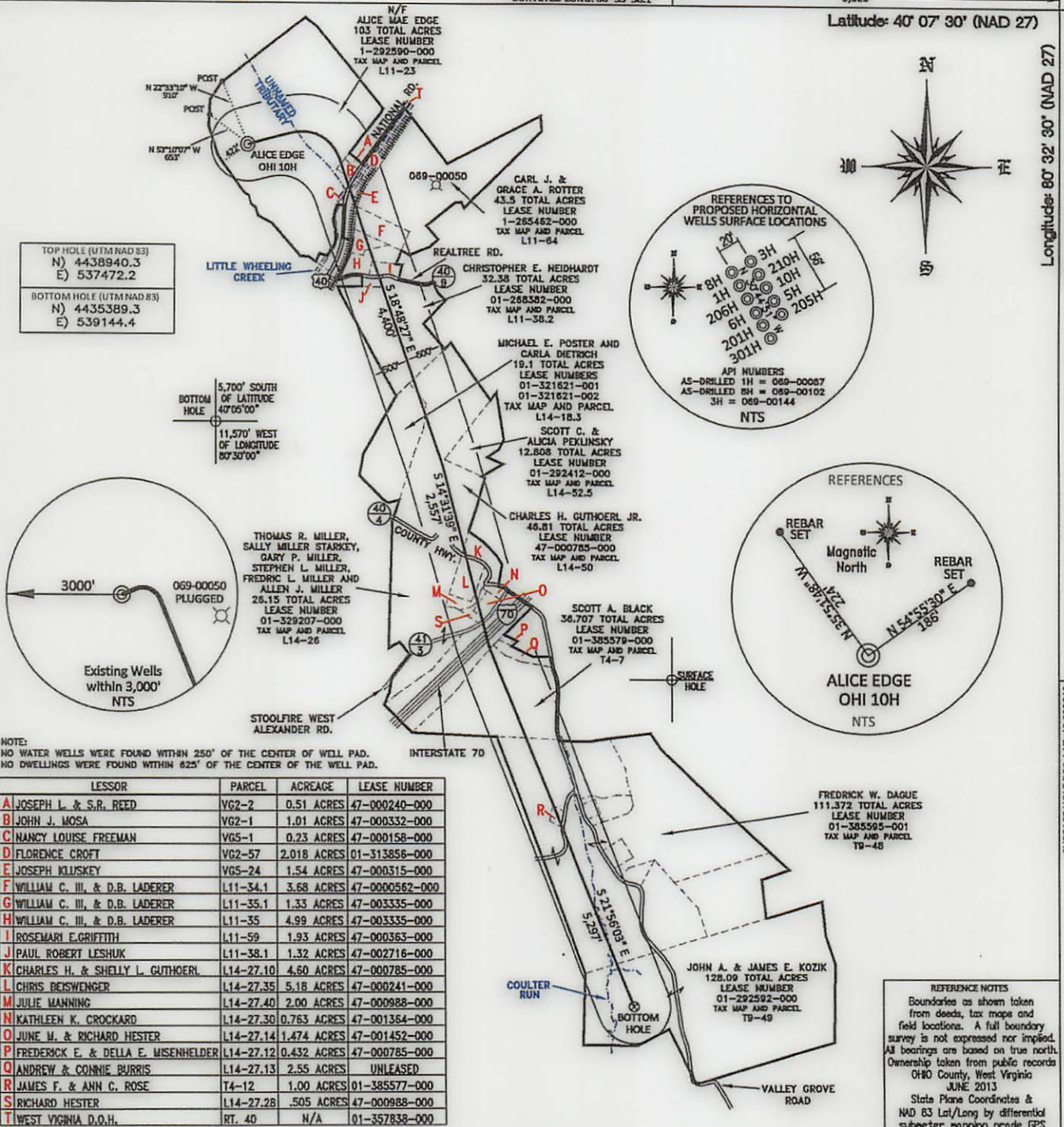
NOTE:
 NO WATER WELLS WERE FOUND WITHIN 250' OF THE CENTER OF WELL PAD.
 NO DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF THE WELL PAD.

FEBRUARY 26, 2015
SCALE 1"=2,000'

SURFACE HOLE DEC. LONG: 80.560573
SURVEYED LONG: 80° 33' 38.1"

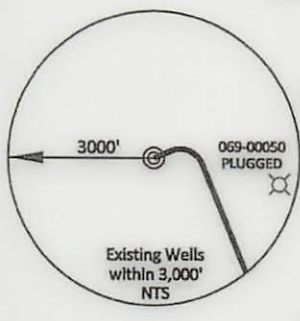
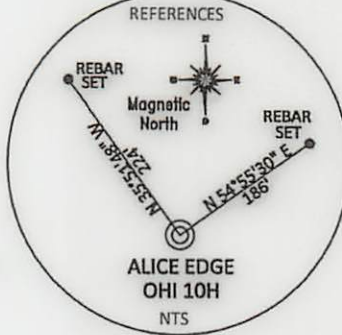
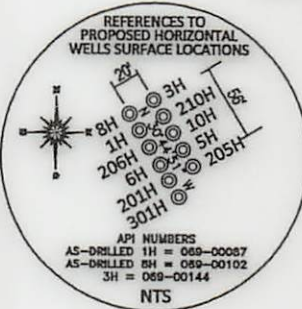
Latitude: 40° 07' 30" (NAD 27)

Longitude: 80° 32' 30" (NAD 27)



TOP HOLE (UTM NAD 83)
N) 4438940.3
E) 537472.2

BOTTOM HOLE (UTM NAD 83)
N) 4435389.3
E) 539144.4



NOTE:
NO WATER WELLS WERE FOUND WITHIN 250' OF THE CENTER OF WELL PAD.
NO DWELLINGS WERE FOUND WITHIN 825' OF THE CENTER OF THE WELL PAD.

LESSOR	PARCEL	ACREAGE	LEASE NUMBER
A JOSEPH L. & S.R. REED	VG2-2	0.51 ACRES	47-000240-000
B JOHN J. MOSA	VG2-1	1.01 ACRES	47-000332-000
C NANCY LOUISE FREEMAN	VG5-1	0.23 ACRES	47-000158-000
D FLORENCE CROFT	VG2-57	2.018 ACRES	01-313856-000
E JOSEPH KLUSKEY	VG5-24	1.54 ACRES	47-000315-000
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G WILLIAM C. III, & D.B. LADERER	L11-35.1	1.33 ACRES	47-0003335-000
H WILLIAM C. III, & D.B. LADERER	L11-35	4.99 ACRES	47-0003335-000
I ROSEMARY E. GRIFFITH	L11-59	1.93 ACRES	47-000363-000
J PAUL ROBERT LESHUK	L11-38.1	1.32 ACRES	47-002716-000
K CHARLES H. & SHELLY L. GUTHOERL	L14-27.10	4.60 ACRES	47-000785-000
L CHRIS BEISWENGER	L14-27.35	5.18 ACRES	47-000241-000
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N KATHLEEN K. CROCKARD	L14-27.30	0.763 ACRES	47-001364-000
O JUNE H. & RICHARD HESTER	L14-27.14	1.474 ACRES	47-001452-000
P FREDERICK E. & DELLA E. WISENHEDLER	L14-27.12	0.432 ACRES	47-000785-000
Q ANDREW & CONNIE BURRIS	L14-27.13	2.55 ACRES	UNLEASED
R JAMES F. & ANN C. ROSE	T4-12	1.00 ACRES	01-385577-000
S RICHARD HESTER	L14-27.28	.505 ACRES	47-000988-000
T WEST VIRGINIA D.O.H.	RT. 40	N/A	01-357838-000

REFERENCE NOTES
Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records OHIO County, West Virginia JUNE 2013
State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS
Drafted by: EJM

FILE #: CHE 036
DRAWING #: 1657
SCALE: PLAT: 1" = 2000'
TICK MARK: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE: SUBMETER MAPPING GRADE GPS

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 THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: *[Signature]*
L.L.S. #2124: Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

Well Type: Oil Waste Diposal Production Deep
 Gas Liquid Injection Storage Shallow

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

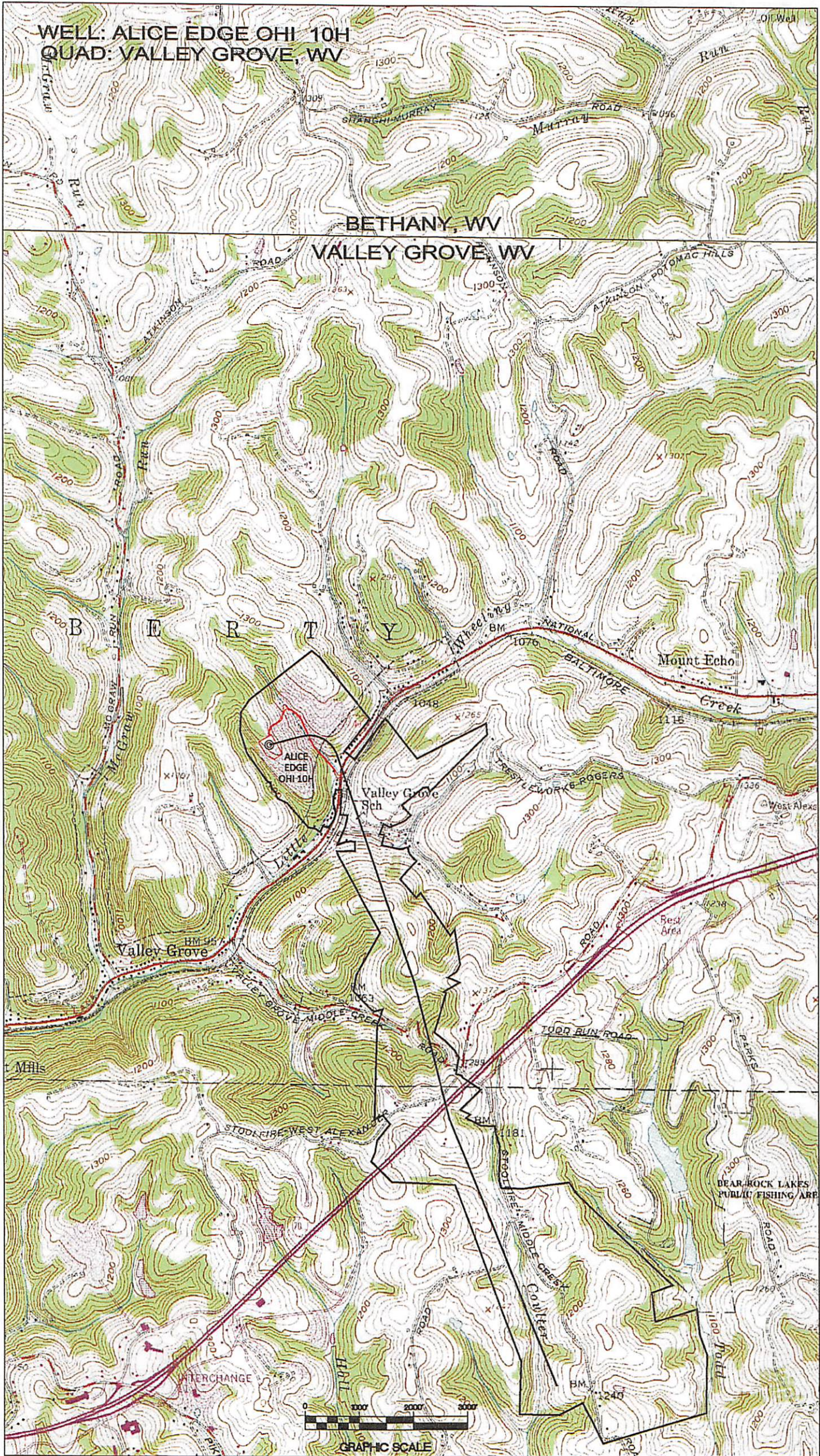
DATE: JANUARY 16, 2015
OPERATOR'S WELL #: ALICE EDGE OHI 10H
API WELL #: 47 69
STATE COUNTY PERMIT

ELEVATION: 1,198'
QUADRANGLE: VALLEY GROVE, WV
ACREAGE: 103 +/-
ACREAGE: 498.478 +/-

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY):

TARGET FORMATION: MARCELLUS
ESTIMATED DEPTH: TVD: 6,400' TMD: 19,675'
WELL OPERATOR: SWN Production Co., LLC.
DESIGNATED AGENT: Dee Southall
ADDRESS: PO BOX 1300
ADDRESS: PO BOX 6070
CITY: Jane Lew STATE: WV ZIP CODE: 26378
CITY: Jane Lew STATE: WV ZIP CODE: 26378

WELL: ALICE EDGE OHI 10H
QUAD: VALLEY GROVE, WV



BETHANY, WV

VALLEY GROVE, WV

ALICE EDGE
OHI 10H

Valley Grove
Sch

Valley Grove

Mount Echo

NATIONAL BALTIMORE
Creek

1000 RUN ROAD

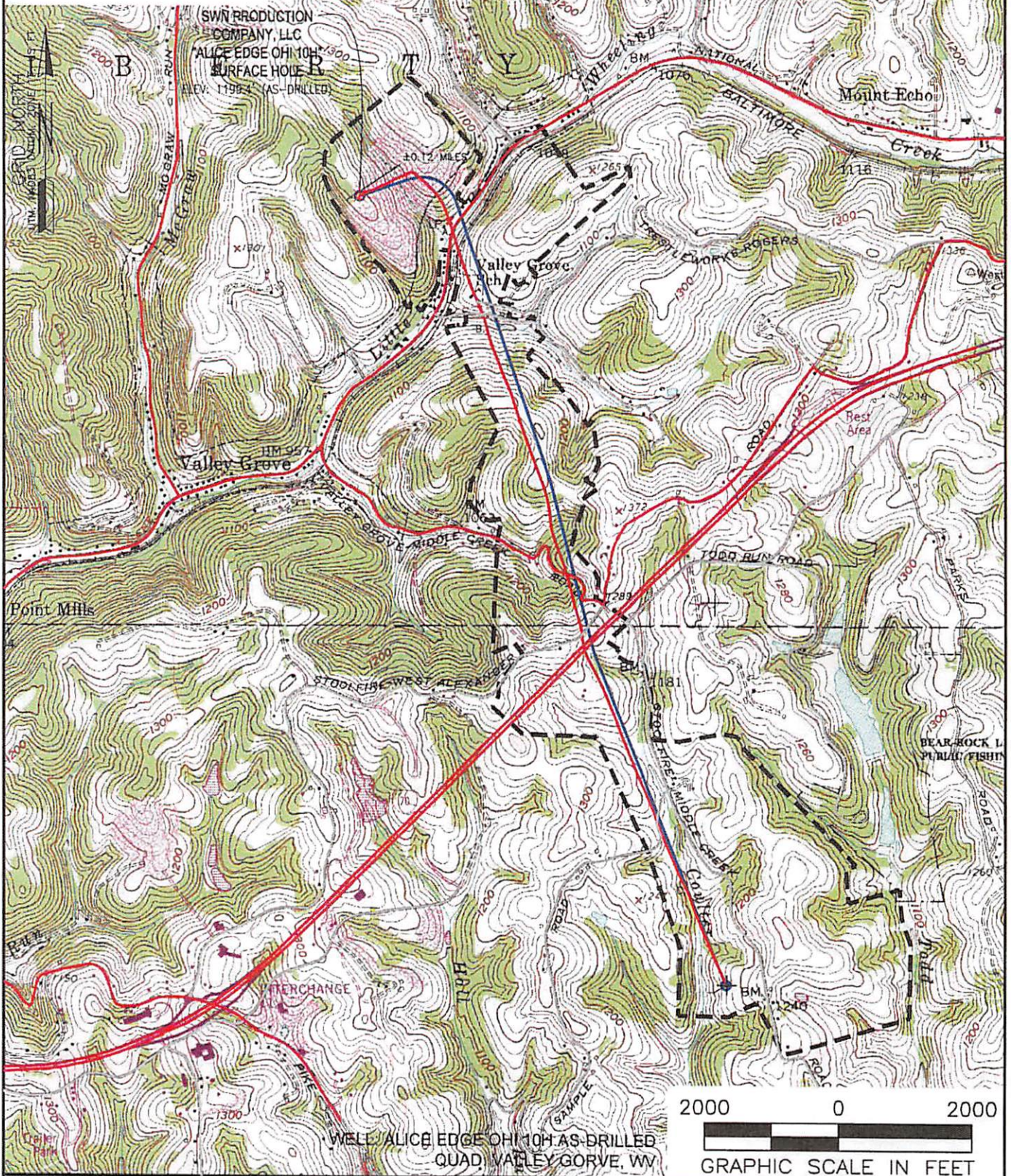


GRAPHIC SCALE

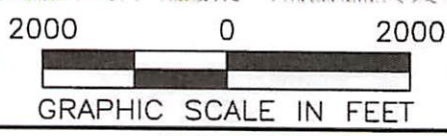
THRASHER

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

AS-DRILLED



WELL ALICE EDGE OHI 10H AS-DRILLED
QUAD, VALLEY GROVE, 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: 40.098413' / LONG: -80.555387' B. LAT: 40.094740' / LONG: -80.553675' C. LAT: 40.070751' / LONG: -80.542518'		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.		WELL #: OHI 10H		LOCATION: LIBERTY DISTRICT, OHIO, WEST VIRGINIA	
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: 40.099923' LONGITUDE: -80.560367'		AS-DRILLED BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.067859' LONGITUDE: -80.540923'	
REVISIONS:		DATE: 01-11-2016		DRAWN BY: KJP SCALE: 1" = 2000' DRAWING NO: 030-2725 TOPOGRAPHIC MAP	