

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

API 47-069-00179 County OHIO District LIBERTY
Quad VALLEY GROVE Pad Name ALICE EDGE OHI Field/Pool Name PANHANDLE FIELD
Farm name ALICE MAE EDGE Well Number 205H
Operator (as registered with the OOG) SWN PRODUCTION CO., LLC
Address 10000 ENERGY DRIVE City SPRING State TX Zip 77389

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4438932.98 Easting 537476.89
Landing Point of Curve Northing 4439276.82 Easting 537965.66
Bottom Hole Northing 4441332.14 Easting 537050.90

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 8/28/14 Date drilling commenced 9/26/14 Date drilling ceased 10/16/14
Date completion activities began 7/20/15 Date completion activities ceased 10/14/15
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

RECEIVED
Office of Oil and Gas
JAN 12 2016

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

Freshwater depth(s) ft 393 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 730 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 582 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) Y

Reviewed by:
03/04/2016
2-22-16
WS AX 02/29/16

API 47- 069 - 00179 Farm name ALICE MAE EDGE Well number 205H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	26	20	101	N	94/J-55		Y
Surface	17.5	13.375	626	N	54.5/J-55		Y
Coal	17.5	13.375	626	N	54.5/J-55		Y
Intermediate 1	12.250	9.625	2086	N	40/J-55		Y
Intermediate 2							
Intermediate 3							
Production	8.75/8.5	5.5	14496	N	20/P-110		N
Tubing		2.375	7005	N	4.7/P-110		NA
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	A		15.6			GTS	GTS
Surface	A	610	15.6	1.2	732	7.6	8
Coal	A	610	15.6	1.2	732	7.6	8
Intermediate 1	A	805	15.6	1.19	958	7.3	8
Intermediate 2							
Intermediate 3							
Production	A	3259	15.6	1.19	3878	603	24
Tubing							

Drillers TD (ft) 14426 Loggers TD (ft) 14515
 Deepest formation penetrated MARCELLUS Plug back to (ft) NA
 Plug back procedure NA

Kick off depth (ft) 6160

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 will be run with a centralizer at a minimum of 1 per every 3 joints of casing.

RECEIVED
Office of Oil and Gas

JAN 12 2016

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WV Department of
Environmental Protection

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

API 47- 069 - 00179 Farm name ALICE MAE EDGE Well number 205H

PRODUCING FORMATION(S)	DEPTHS	
MARCELLUS	7264	TVD 14338 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 NA hrs
 OPEN FLOW Gas 1210 mcfpd Oil 6 bpd NGL _____ bpd Water 12 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 NOMAC DRILLING
 Address 3400 South Radio Road El Reno, OK 73036 City EL RENO State OK Zip 73036

Logging Company NINE ENERGY SERVICES
 Address 8885 State Hwy 21 E, Bryan, TX 77808 City BRYAN State TX Zip 77808

Cementing Company SCHLUMBERGER WELL SERVICES
 Address 1121 Buschong St, Houston, TX 77039 City HOUSTON State TX Zip 77039

Stimulating Company DOWELL SCHLUMBERGER
 Address 1121 Buschong St, Houston, TX 77039 City HOUSTON State TX Zip 77039

Please insert additional pages as applicable.

Completed by CODY MAGBY Telephone 832-796-6215
 Signature  Title SR. STAFF REGULATORY Date 1/11/16

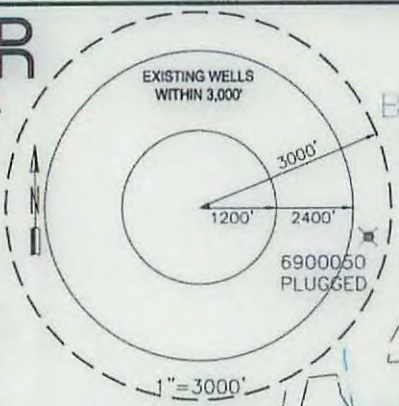
RECEIVED
 Office of Oil and Gas
 JAN 12 2016
 Zip 77039
 WV Department of Environmental Protection

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.

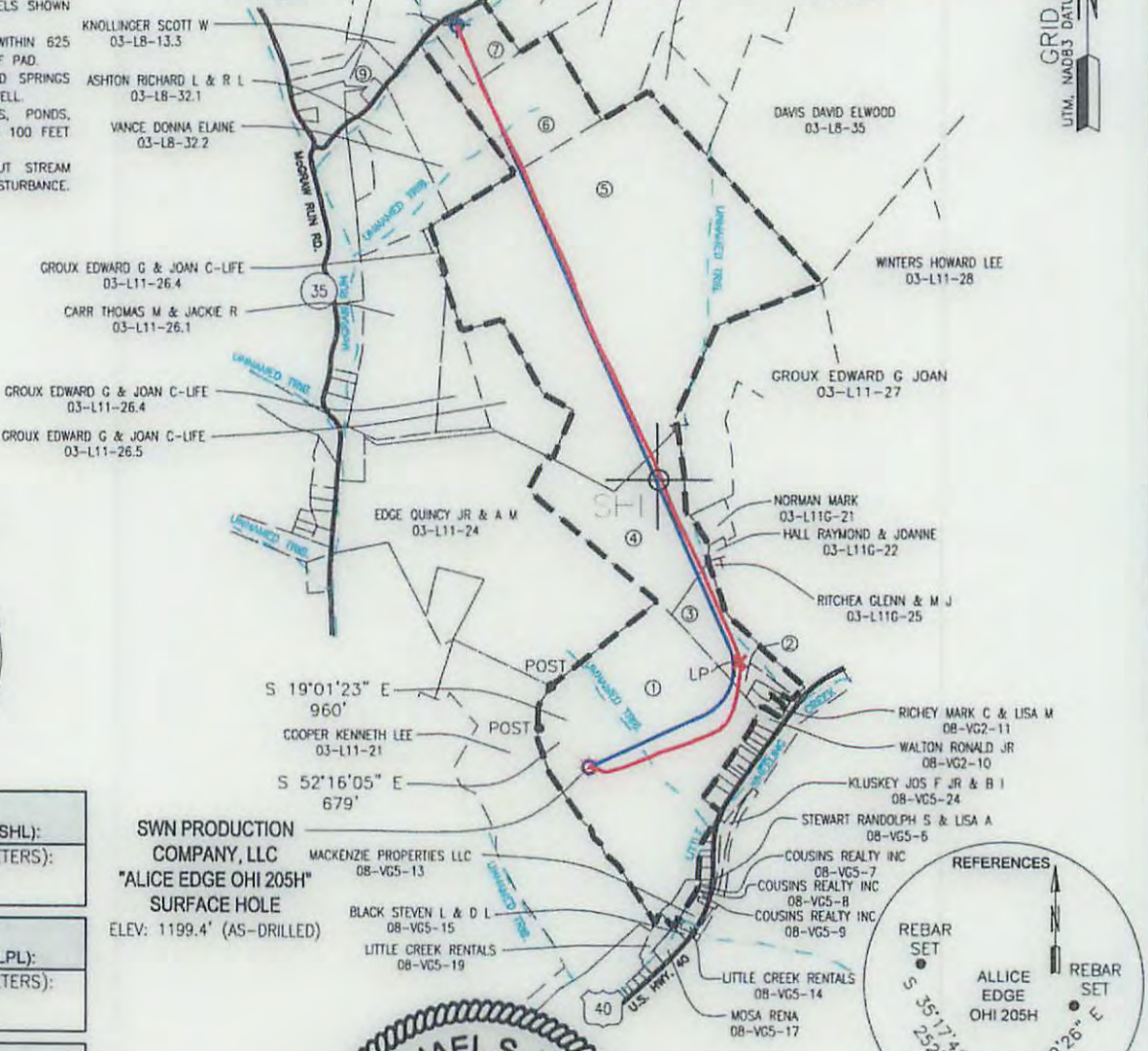


	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	LEASE NUMBER	ACRES
1	N/F ALICE MAE EDGE	3-L11-23	1-292390-000	103.0
2	DON W HESS	08-VG2-13	47-001598-000	2.00
3	CLARA W FOLMAR	3-L11-45	47-005332-000	14.21
4	JULIA A KIGER	3-L11-25	1-304360-000	40.436
5	J&F CHAMBERS HOLDINGS, LLC	3-L11-26	47-000606-000	194.84
6	JEFFREY H KNOLLINGER	03-LB-33.7	47-001874-000	29.419
7	RICHARD WILLIAM JR & LINDA SUE NOHMAN	3-LB-33.13	1-384432-000	10.908
8				

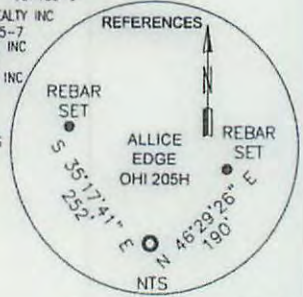
AS-DRILLED

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

Longitude: W 80°32'30"

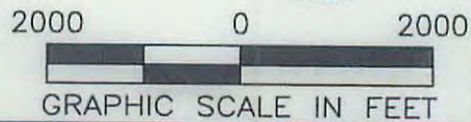
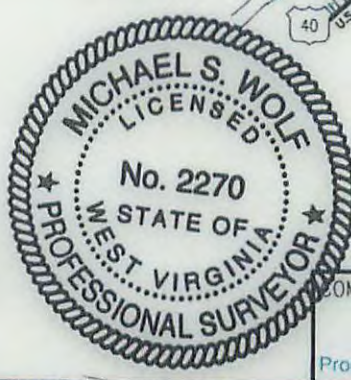


REFERENCES TO PROPOSED HORIZONTAL WELLS SURFACE LOCATIONS



AS-DRILLED
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,438,932.978
EASTING: 537,476.887
AS-DRILLED
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,439,276.815
EASTING: 537,965.662
AS-DRILLED
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,441,332.137
EASTING: 537,050.904

SWN PRODUCTION COMPANY, LLC
"ALICE EDGE OHI 205H"
 SURFACE HOLE
 ELEV: 1199.4' (AS-DRILLED)



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.Wolf 1/11/16*

COMPANY: **SWN** Production Company, LLC

	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	ALICE EDGE		
	WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)	OPERATOR'S WELL #:	OHI 205H	
			API WELL #:	47	069 00179
				STATE	COUNTY PERMIT

WELL TYPE: OIL	WASTE DISPOSAL	PRODUCTION	DEEP	GAS <input checked="" type="checkbox"/>	LIQUID INJECTION	STORAGE	SHALLOW <input checked="" type="checkbox"/>
WATERSHED: UPPER OHIO SOUTH				ELEVATION: 1199.4			
DISTRICT: LIBERTY				COUNTY: OHIO			
SURFACE OWNER: ALICE MAE EDGE				QUADRANGLE: VALLEY GROVE			
OIL & GAS ROYALTY OWNER: ALICE MAE EDGE				ACREAGE: 103±			
				ACREAGE: 103±			
DRILL <input checked="" type="checkbox"/>	DRILL DEEPER	REDRILL	FRACTURE OR STIMULATE <input checked="" type="checkbox"/>	PLUG OFF OLD FORMATION	PERFORATE NEW FORMATION		
CONVERT	PLUG & ABANDON	CLEAN OUT & REPLUG	OTHER CHANGE (SPECIFY)				
TARGET FORMATION: MARCELLUS				ESTIMATED DEPTH: 6,385 TVD 14,418 TMD			

03/04/2016

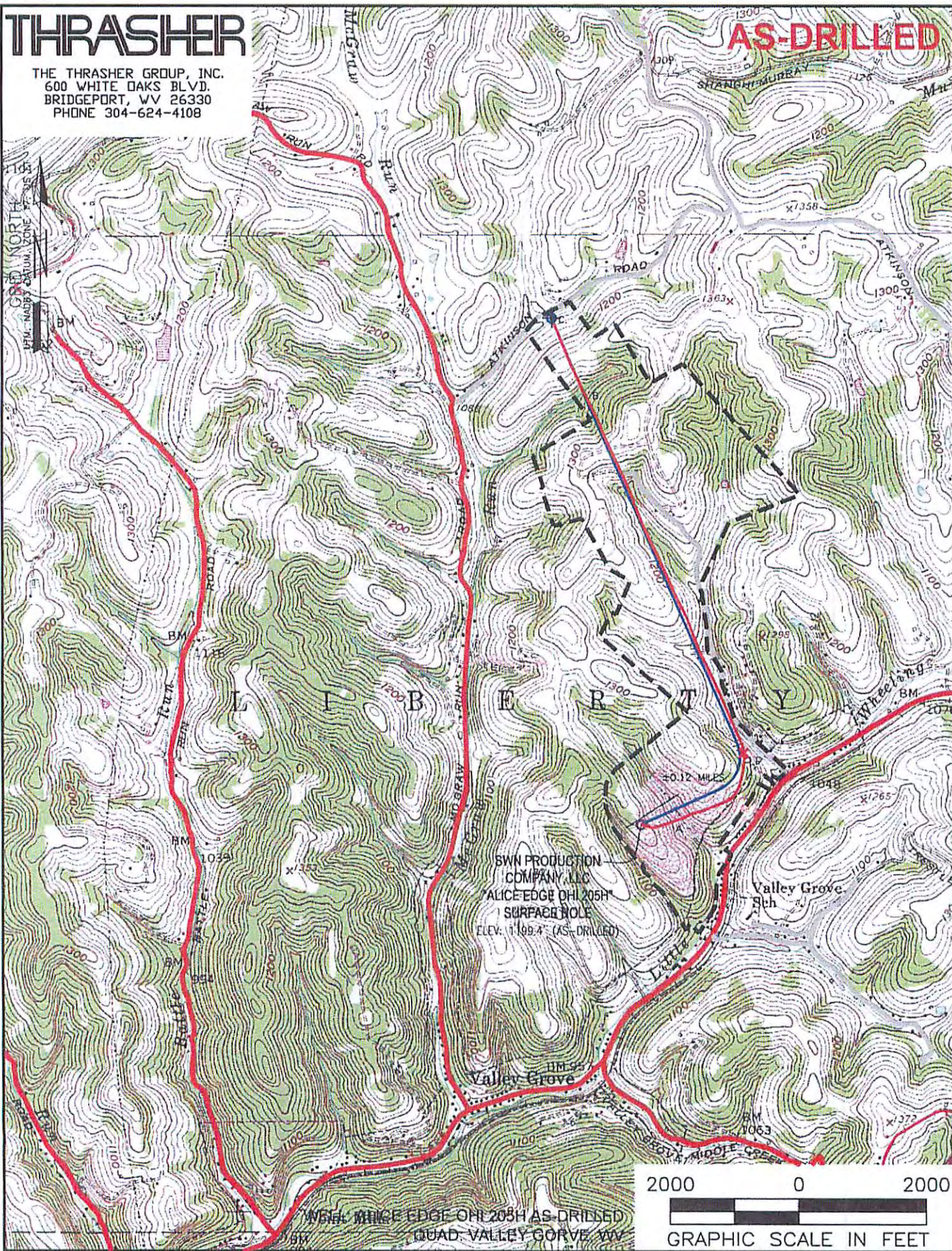
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	DESIGNATED AGENT: DEE SOUTHALL
ADDRESS: P.O. BOX 1300	ADDRESS: P.O. BOX 1300
CITY: JANE LEW STATE: WV ZIP CODE: 26378	CITY: JANE LEW STATE: WV ZIP CODE: 26378

LEGEND:	REVISIONS:	DATE: 01-11-2016
<ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD ⊗ ABANDONED WELL ⊗ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR --- LEASE BOUNDARY --- DESIGN DHP --- AS-DRILLED DHP --- ABANDONED PATH 		DRAWN BY: KJP SCALE: 1" = 2000' DRAWING NO: 030-2725 WELL LOCATION PLAT

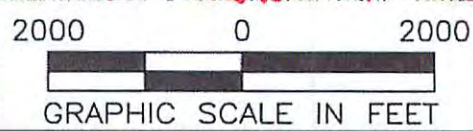
THRASHER

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

AS-DRILLED



SWN PRODUCTION COMPANY, LLC
ALICE EDGE OHI 205H
SURFACE HOLE
ELEV: 1109.4' (AS-DRILLED)



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: 40.100124' / LONG: -80.558063' B. LAT: 40.118347' / LONG: -80.563352' C. LAT: 40.121490' / LONG: -80.565173'		COMPANY: SWN Production Company, LLC	
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		WELL #: OHI 205H	
FEMA FLOOD INFORMATION: NO FLOOD ZONES.		LOCATION: LIBERTY DISTRICT, OHIO, WEST VIRGINIA		AS-DRILLED SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.099856° LONGITUDE: -80.560313°	
LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ✖ EXISTING / PRODUCING WELLHEAD ✖ ABANDONED WELL ✖ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR		AS-DRILLED BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.121490° LONGITUDE: -80.565173°		REVISIONS: DATE: 01-11-2016	
(S) EXISTING SPRING (W) EXISTING WATER WELL — ACCESS ROAD — ACCESS ROAD TO PREV. SITE — HIGHWAY/INTERSTATE — COUNTY ROAD		RECEIVED Office of Oil and Gas JAN 12 2016 WV Department of Environmental Protection 03/04/2016		DRAWN BY: KJP SCALE: 1" = 2000' DRAWING NO: 030-2725 TOPOGRAPHIC MAP	

THRASHER

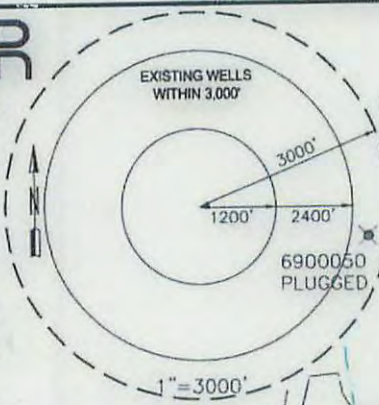
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	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	LEASE NUMBER	ACRES
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AS-DRILLED

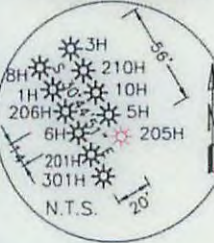
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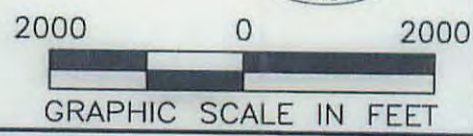
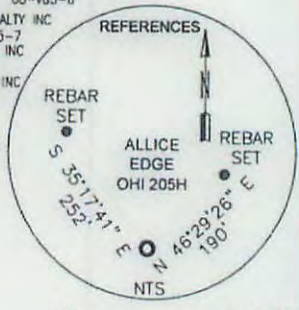
GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT

REFERENCES TO PROPOSED HORIZONTAL WELLS SURFACE LOCATIONS



AS-DRILLED
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,438,932.978
EASTING: 537,476.887
AS-DRILLED
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
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AS-DRILLED
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SWN PRODUCTION COMPANY, LLC
"ALICE EDGE OHI 205H"
SURFACE HOLE
ELEV: 1199.4' (AS-DRILLED)



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.* 1/11/16

(+) 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 ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)	OPERATOR'S WELL #: ALICE EDGE OHI 205H API WELL #: 47 069 00179 STATE COUNTY PERMIT
	WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS <input checked="" type="checkbox"/> LIQUID INJECTION STORAGE 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 REDRILL FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION PERFORATE NEW FORMATION CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,385 TVD 14,418 TMD	ELEVATION: 1199.4 QUADRANGLE: VALLEY GROVE ACREAGE: 103± ACREAGE: 103±

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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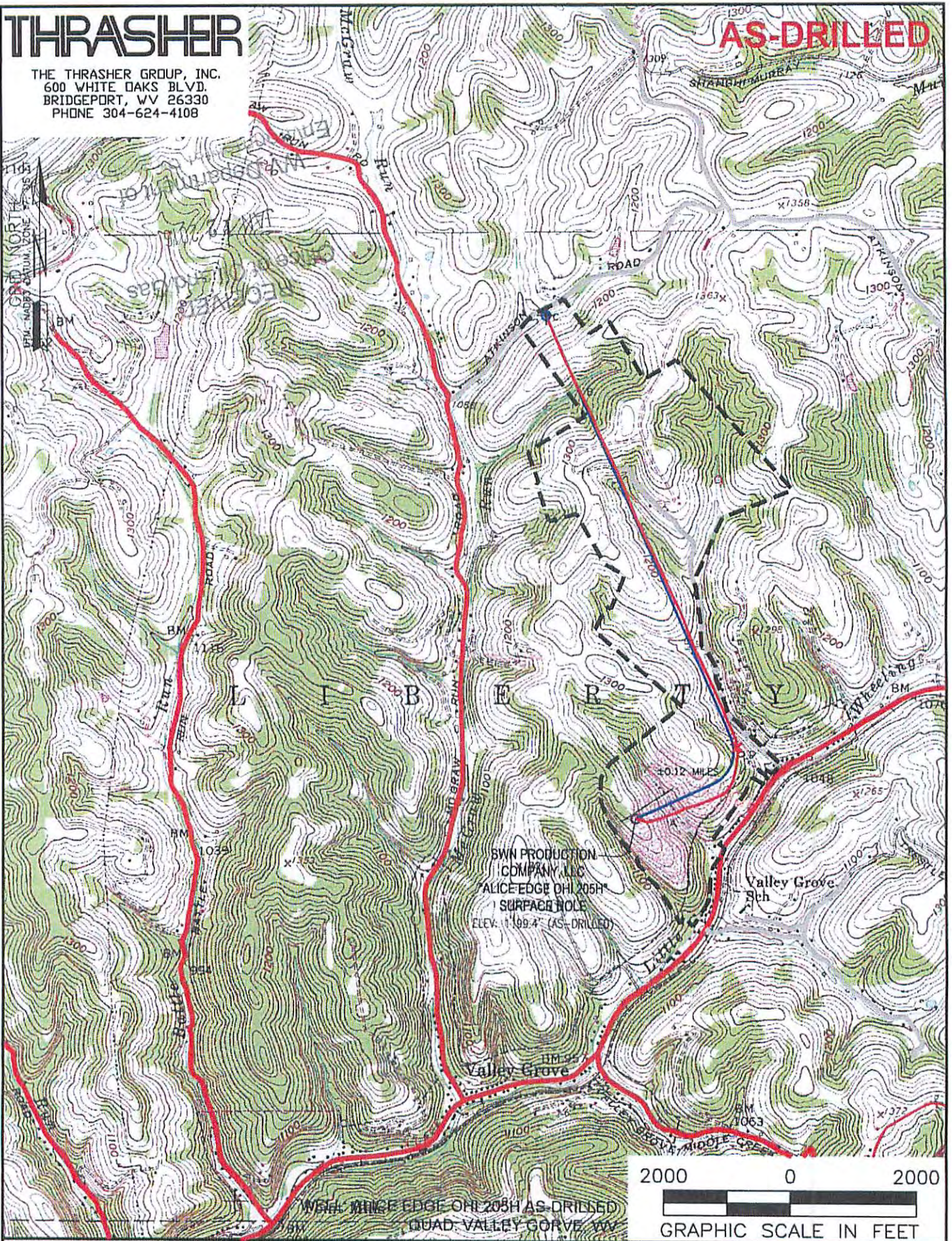
LEGEND: ● PROPOSED SURFACE HOLE / BOTTOM HOLE ✱ EXISTING / PRODUCING WELLHEAD ✕ ABANDONED WELL ✕ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR	REVISIONS: --- LEASE BOUNDARY --- DESIGN DHP --- AS-DRILLED DHP --- ABANDONED PATH	DATE: 01-11-2016 DRAWN BY: KJP SCALE: 1" = 2000' DRAWING NO: 030-2725 WELL LOCATION PLAT
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03/04/2016

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AS-DRILLED

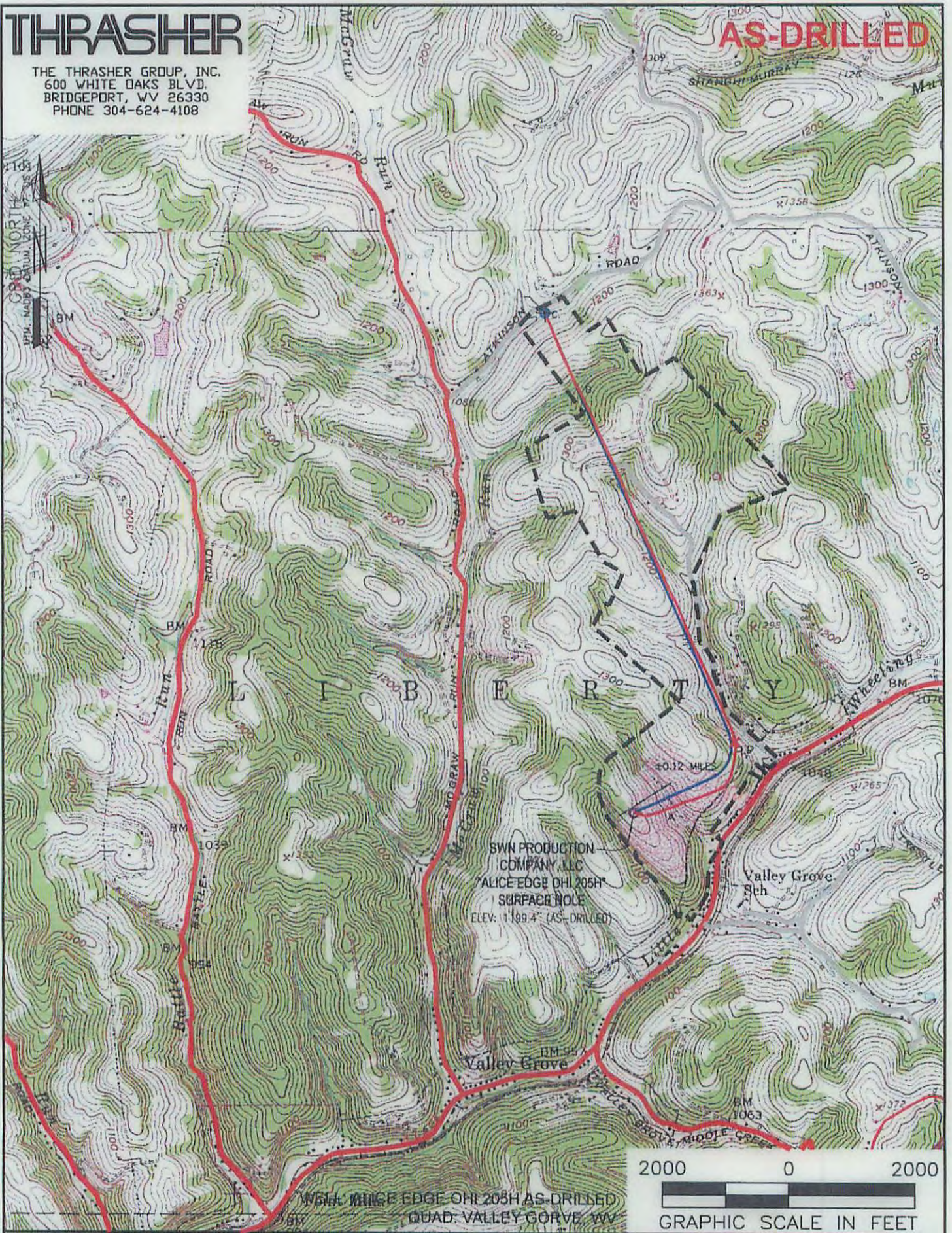


NAME AND DISTANCE TO THE NEAREST STREAM: AN UNNAMED TRIBUTARY TO LITTLE WHEELING CREEK IS LOCATED ±0.12 MILES (NE) OF THE CENTER OF THE DRILL PAD.		STREAM CROSSING COORDINATES (NAD 83): A. LAT: 40.100124' / LONG: -80.558063' B. LAT: 40.118347' / LONG: -80.563352' C. LAT: 40.121490' / LONG: -80.565173'		COMPANY:  	
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FEMA FLOOD INFORMATION: NO FLOOD ZONES.		AS-DRILLED SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.099856' LONGITUDE: -80.560313'		03/04/2016	
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 BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.121490' LONGITUDE: -80.565173'	
REVISIONS:		DATE: 01-11-2016		DRAWN BY: KJP SCALE: 1" = 2000' DRAWING NO: 030-2725 TOPOGRAPHIC MAP	

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AS-DRILLED



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SURFACE HOLE
ELEV: 1199.4' (AS-DRILLED)



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FEMA FLOOD INFORMATION: NO FLOOD ZONES.		WELL #: OHI 205H		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: 40.099856° LONGITUDE: -80.560313°		03/04/2016	
		AS-DRILLED BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.121490° LONGITUDE: -80.565173°		REVISIONS:	
		DATE: 01-11-2016		DRAWN BY: KJP SCALE: 1" = 2000' DRAWING NO: 030-2725 TOPOGRAPHIC MAP	

THRASHER

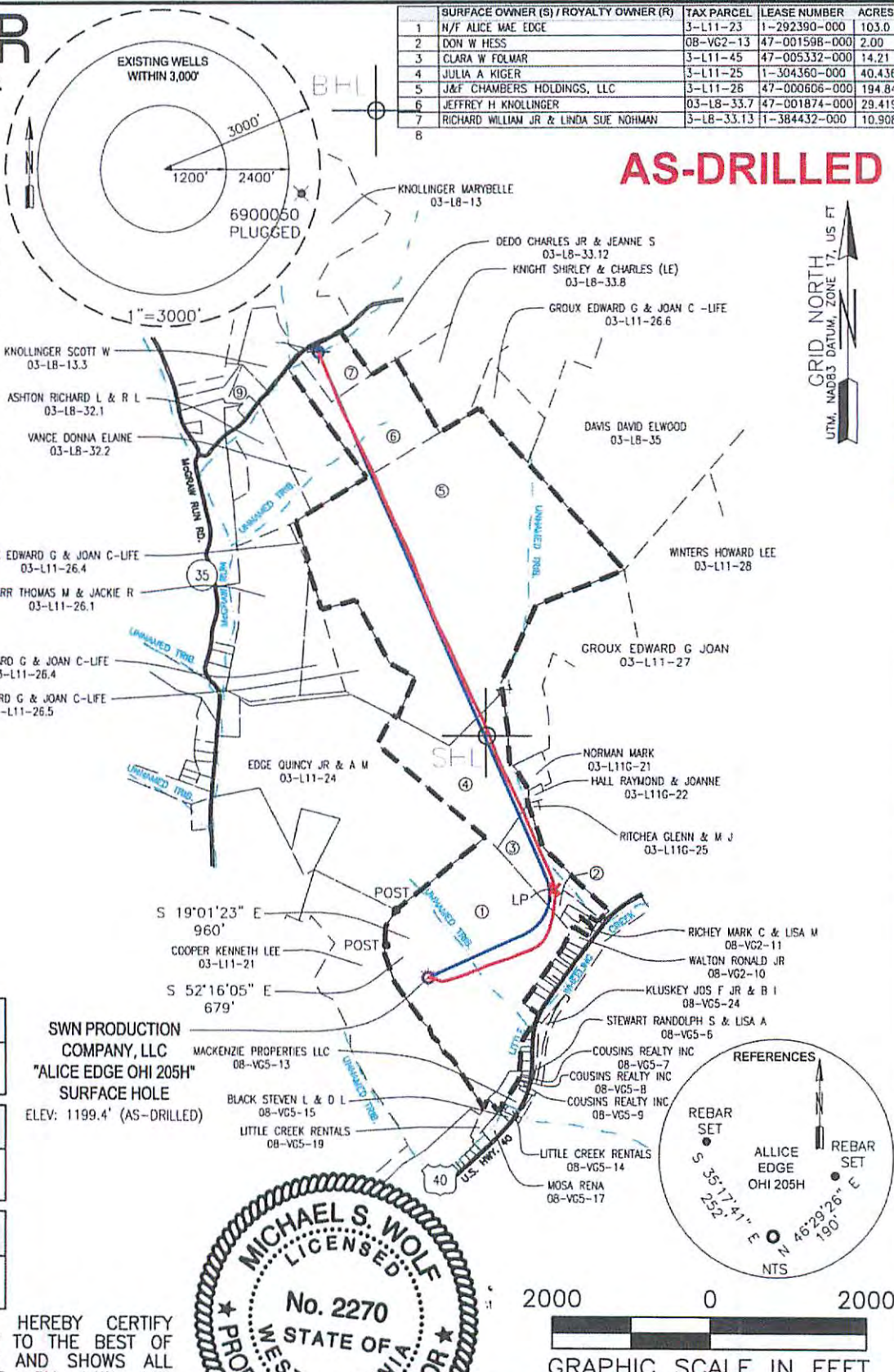
THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
PHONE 304-624-4108

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 OF 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.

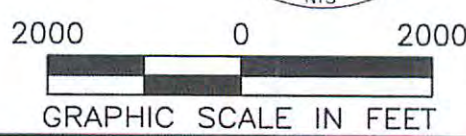
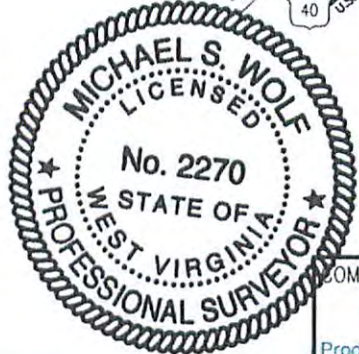
	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	LEASE NUMBER	ACRES
1	N/F ALICE MAE EDGE	3-L11-23	1-292390-000	103.0
2	DON W HESS	08-VG2-13	47-001598-000	2.00
3	CLARA W FOLMAR	3-L11-45	47-005332-000	14.21
4	JULIA A KIGER	3-L11-25	1-304360-000	40.436
5	J&F CHAMBERS HOLDINGS, LLC	3-L11-26	47-000606-000	194.84
6	JEFFREY H KNOLLINGER	03-LB-33.7	47-001874-000	29.419
7	RICHARD WILLIAM JR & LINDA SUE NOHMAN	3-LB-33.13	1-384432-000	10.908
8				

AS-DRILLED



AS-DRILLED
SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,438,932.978 EASTING: 537,476.887
AS-DRILLED
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,439,276.815 EASTING: 537,965.662
AS-DRILLED
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,441,332.137 EASTING: 537,050.904

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.* 1/11/16

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)</p>	<p>COMPANY: SWN Production Company, LLC</p> <p>OPERATOR'S WELL #: ALICE EDGE OHI 205H</p> <p>API WELL #: 47 069 00179</p> <p>STATE COUNTY PERMIT</p>
	<p>WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS <input checked="" type="checkbox"/> LIQUID INJECTION STORAGE SHALLOW <input checked="" type="checkbox"/></p> <p>WATERSHED: UPPER OHIO SOUTH</p> <p>DISTRICT: LIBERTY COUNTY: OHIO</p> <p>SURFACE OWNER: ALICE MAE EDGE</p> <p>OIL & GAS ROYALTY OWNER: ALICE MAE EDGE</p> <p>DRILL <input checked="" type="checkbox"/> DRILL DEEPER REDRILL FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION PERFORATE NEW FORMATION</p> <p>CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)</p> <p>TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,385 TVD 14,418 TMD</p>	<p>WELL OPERATOR: SWN PRODUCTION COMPANY, LLC</p> <p>ADDRESS: P.O. BOX 1300</p> <p>CITY: JANE LEW STATE: WV ZIP CODE: 26378</p> <p>DESIGNATED AGENT: DEE SOUTHALL</p> <p>ADDRESS: P.O. BOX 1300</p> <p>CITY: JANE LEW STATE: WV ZIP CODE: 26378</p>
<p>LEGEND:</p> <ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD ⊗ ABANDONED WELL ⊕ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR --- LEASE BOUNDARY --- DESIGN DHP --- AS-DRILLED DHP --- ABANDONED PATH 	<p>REVISIONS:</p> <p>DATE: 01-11-2016</p> <p>DRAWN BY: KJP</p> <p>SCALE: 1" = 2000'</p> <p>DRAWING NO: 030-2725</p> <p>WELL LOCATION PLAT</p>	

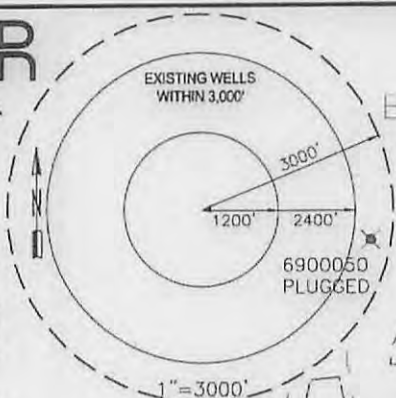
03/04/2016

THRASHER

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

NOTES ON SURVEY

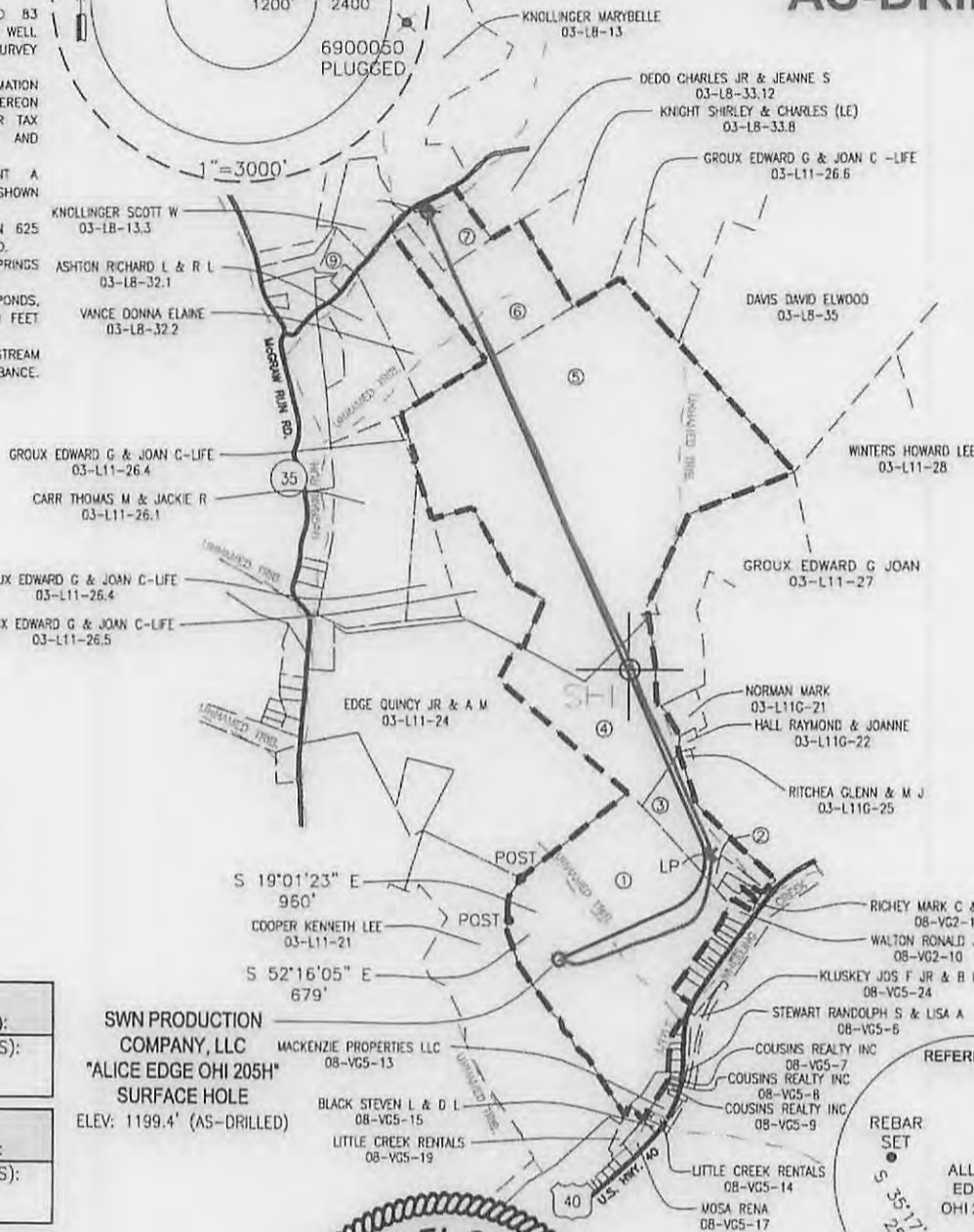
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	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	LEASE NUMBER	ACRES
1	N/F ALICE MAE EDGE	3-L11-23	1-292390-000	103.0
2	DON W HESS	08-VG2-13	47-001598-000	2.00
3	CLARA W FOLMAR	3-L11-45	47-005332-000	14.21
4	JULIA A KIGER	3-L11-25	1-304360-000	40.436
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6	JEFFREY H KNOLLINGER	03-LB-33.7	47-001874-000	29.419
7	RICHARD WILLIAM JR & LINDA SUE NOHMAN	3-LB-33.13	1-384432-000	10.908
8				

AS-DRILLED

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

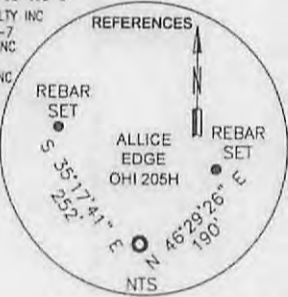


REFERENCES TO PROPOSED HORIZONTAL WELLS SURFACE LOCATIONS



AS-DRILLED
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,438,932.978
EASTING: 537,476.867
AS-DRILLED
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,439,276.815
EASTING: 537,965.662
AS-DRILLED
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,441,332.137
EASTING: 537,050.904

SWN PRODUCTION COMPANY, LLC
"ALICE EDGE OHI 205H"
SURFACE HOLE
ELEV: 1199.4' (AS-DRILLED)



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P.S. 2270 *M.S.W.* 1/11/16

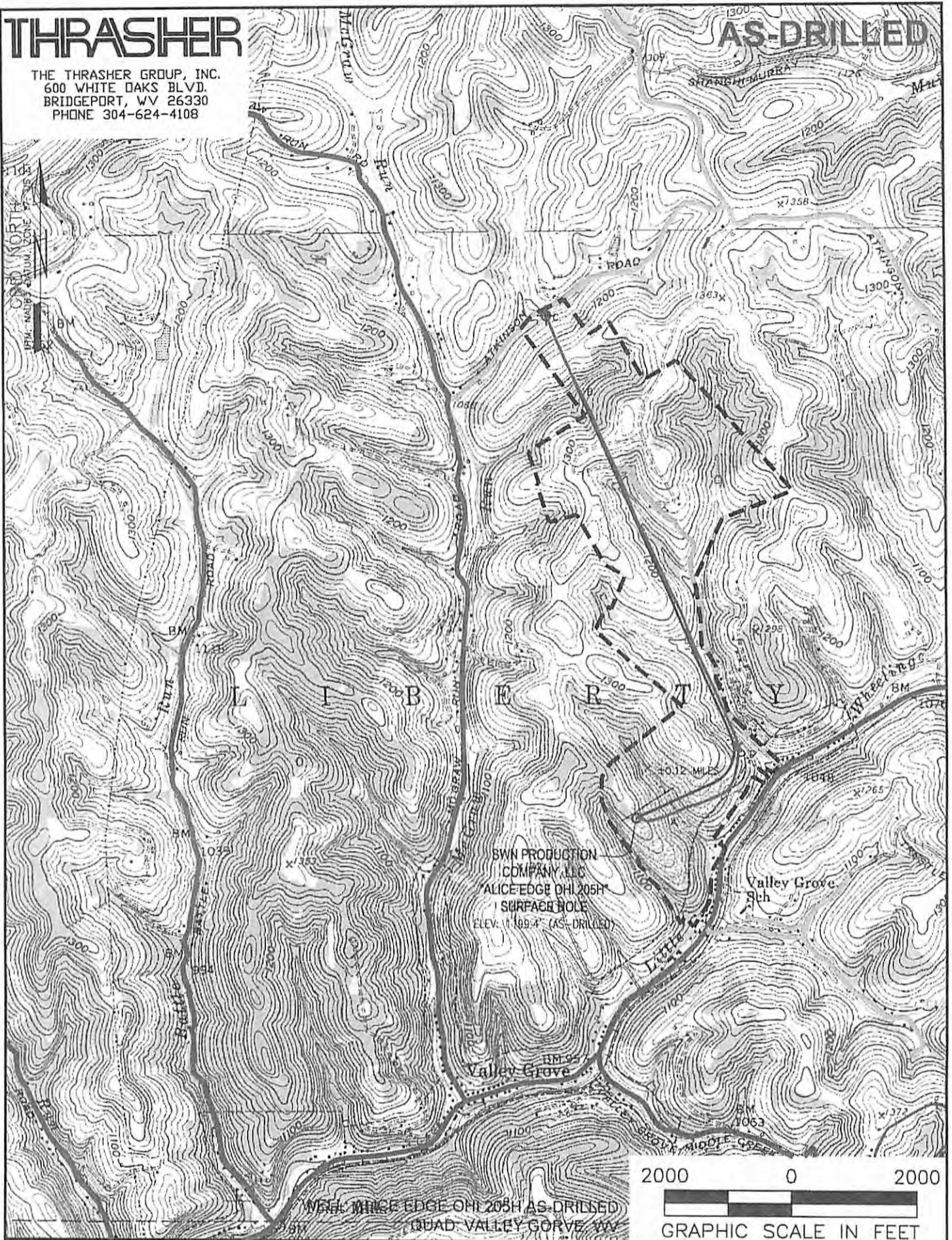
<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)</p>	<p>COMPANY: SWN Production Company LLC</p> <p>ALICE EDGE</p> <p>OPERATOR'S WELL #: OHI 205H</p> <p>API WELL #: 47 069 00179</p> <p>STATE COUNTY PERMIT</p>
	<p>WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS <input checked="" type="checkbox"/> LIQUID INJECTION STORAGE SHALLOW <input checked="" type="checkbox"/></p> <p>WATERSHED: UPPER OHIO SOUTH</p> <p>DISTRICT: LIBERTY COUNTY: OHIO</p> <p>SURFACE OWNER: ALICE MAE EDGE</p> <p>OIL & GAS ROYALTY OWNER: ALICE MAE EDGE</p> <p>DRILL <input checked="" type="checkbox"/> DRILL DEEPER REDRILL FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION PERFORATE NEW FORMATION</p> <p>CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)</p> <p>TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,385 TVD 14,418 TMD</p>	<p>WELL OPERATOR: SWN PRODUCTION COMPANY, LLC</p> <p>ADDRESS: P.O. BOX 1300</p> <p>CITY: JANE LEW STATE: WV ZIP CODE: 26378</p> <p>DESIGNATED AGENT: DEE SOUTHALL</p> <p>ADDRESS: P.O. BOX 1300</p> <p>CITY: JANE LEW STATE: WV ZIP CODE: 26378</p>
<p>LEGEND:</p> <ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD ⊗ ABANDONED WELL ⊕ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR --- LEASE BOUNDARY - - - DESIGN DHP — AS-DRILLED DHP - - - ABANDONED PATH 	<p>REVISIONS:</p> <p>DATE: 01-11-2016</p> <p>DRAWN BY: KJP</p> <p>SCALE: 1" = 2000'</p> <p>DRAWING NO: 030-2725</p> <p>WELL LOCATION PLAT</p>	

03/04/2016

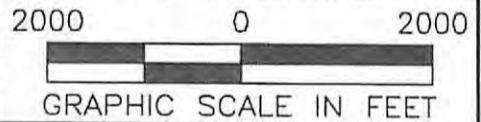
THRASHER

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

AS-DRILLED



WELL: ALICE EDGE OHI 205H 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: 40.100124° / LONG: -80.558063° B. LAT: 40.118347° / LONG: -80.563352° C. LAT: 40.121490° / LONG: -80.565173°		COMPANY: SWN Production Company LLC		RECEIVED Office of Oil and Gas 03/04/2016 WV Department of Economic Development JAN 12 2016	
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		WELL #: OHI 205H		LOCATION: LIBERTY DISTRICT, OHIO, WEST VIRGINIA	
FEMA FLOOD INFORMATION: NO FLOOD ZONES.		AS-DRILLED SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.099856° LONGITUDE: -80.560313°		AS-DRILLED BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.121490° LONGITUDE: -80.565173°		REVISIONS:	
LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD ✕ ABANDONED WELL ⊠ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR		(S) EXISTING SPRING (W) EXISTING WATER WELL — ACCESS ROAD — ACCESS ROAD TO PREV. SITE — HIGHWAY/INTERSTATE — COUNTY ROAD		DATE: 01-11-2016 DRAWN BY: KJP SCALE: 1" = 2000' DRAWING NO: 030-2725 TOPOGRAPHIC MAP			

THRASHER

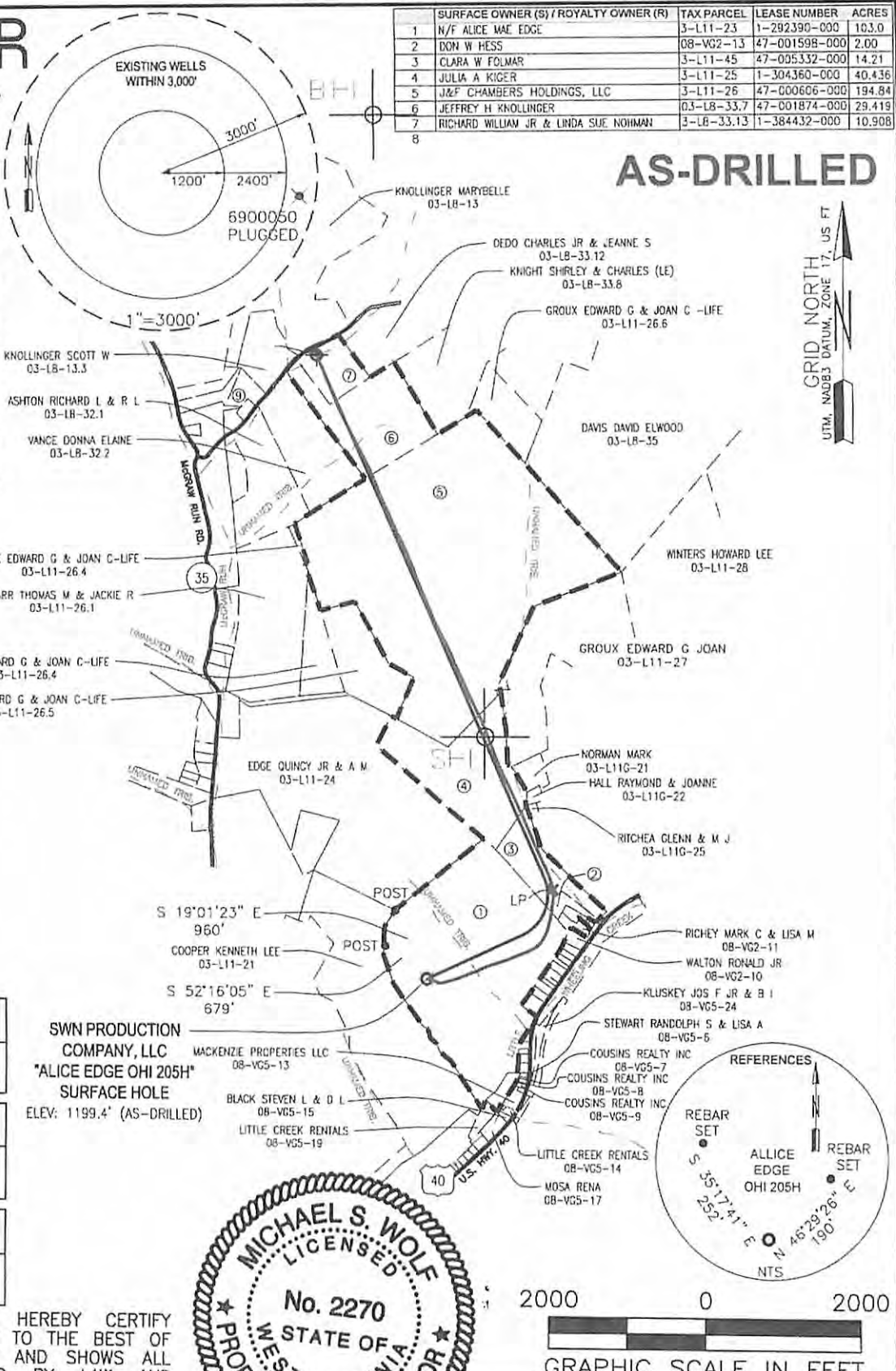
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	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	LEASE NUMBER	ACRES
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2	DON W HESS	08-VG2-13	47-001598-000	2.00
3	CLARA W FOLMAR	3-L11-45	47-005332-000	14.21
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5	J&F CHAMBERS HOLDINGS, LLC	3-L11-26	47-000606-000	194.84
6	JEFFREY H KNOLLINGER	03-LB-33.7	47-001874-000	29.419
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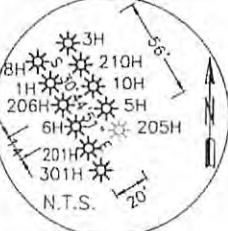
AS-DRILLED



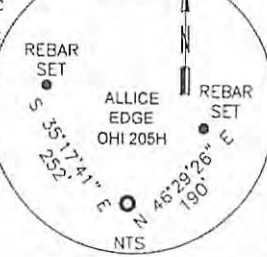
GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT

Longitude: W 80°32'30"

REFERENCES TO PROPOSED HORIZONTAL WELLS SURFACE LOCATIONS



REFERENCES

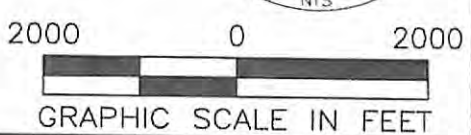


AS-DRILLED
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,438,932.978
EASTING: 537,476.887

AS-DRILLED
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,439,276.815
EASTING: 537,965.662

AS-DRILLED
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,441,332.137
EASTING: 537,050.904

SWN PRODUCTION COMPANY, LLC
"ALICE EDGE OHI 205H" SURFACE HOLE
ELEV: 1199.4' (AS-DRILLED)



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P.S. 2270 *M.S. Wolf 1/11/16*

(+) 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: SWN Production Company, LLC OPERATOR'S WELL #: ALICE EDGE OHI 205H API WELL #: 47 STATE COUNTY PERMIT
	WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS <input checked="" type="checkbox"/> LIQUID INJECTION STORAGE 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 REDRILL FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION PERFORATE NEW FORMATION CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,385 TVD 14,418 TMD	ELEVATION: 1199.4 QUADRANGLE: VALLEY GROVE ACREAGE: 103± ACREAGE: 103±

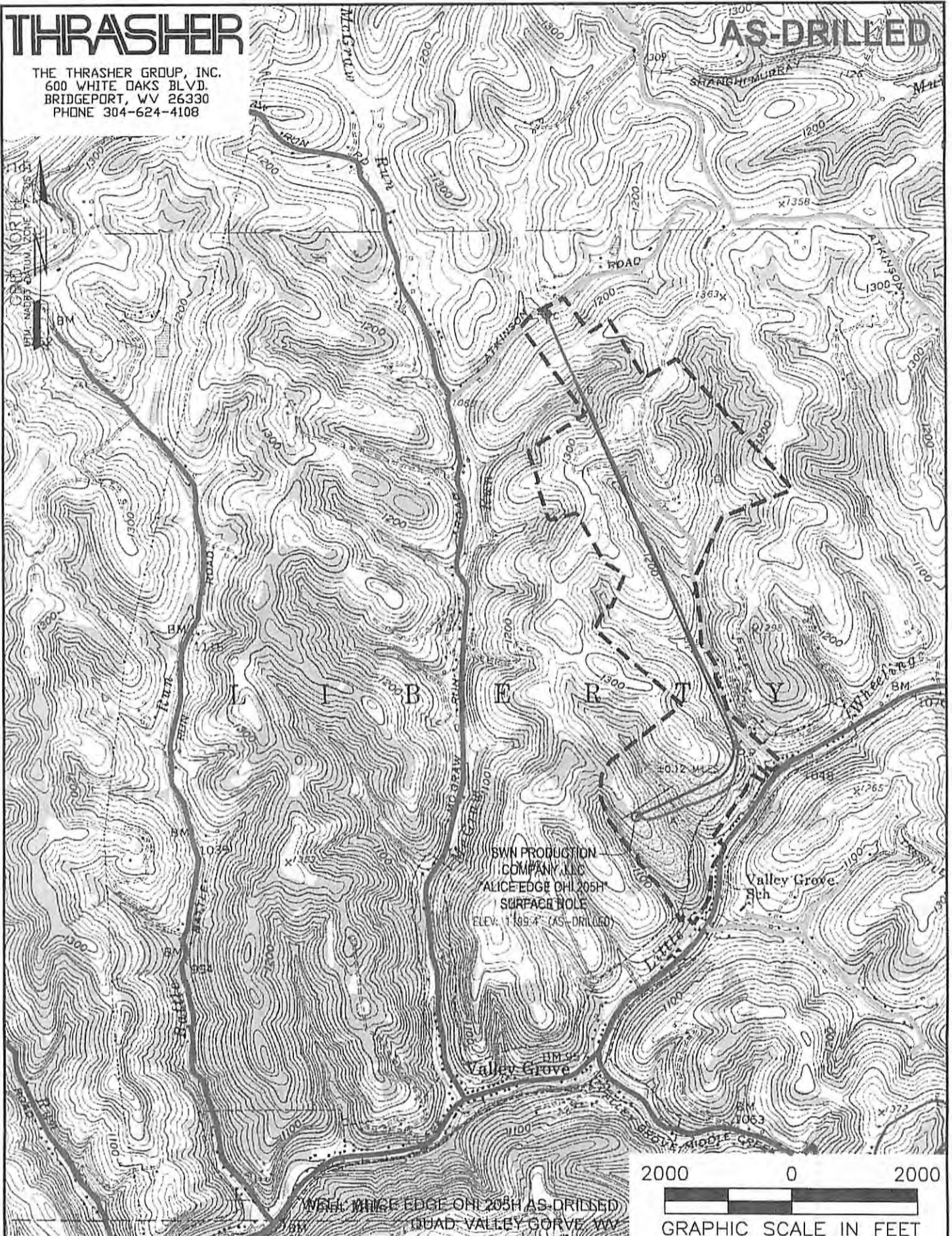
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: P.O. BOX 1300 CITY: JANE LEW STATE: WV ZIP CODE: 26378	DESIGNATED AGENT: DEE SOUTHALL ADDRESS: P.O. BOX 1300 CITY: JANE LEW STATE: WV ZIP CODE: 26378
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LEGEND: ● PROPOSED SURFACE HOLE / BOTTOM HOLE ☼ EXISTING / PRODUCING WELLHEAD ✕ ABANDONED WELL ▣ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR	REVISIONS: --- LEASE BOUNDARY --- DESIGN DHP --- AS-DRILLED DHP --- ABANDONED PATH
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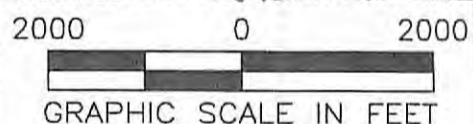
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AS-DRILLED



WELL: ALICE EDGE OHI 205H 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: 40.100124' / LONG: -80.558063' B. LAT: 40.118347' / LONG: -80.563352' C. LAT: 40.121490' / LONG: -80.565173'		COMPANY: <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> SWN Production Company, LLC </div> <div style="text-align: center;"> Production Company™ </div> </div>	
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FEMA FLOOD INFORMATION: NO FLOOD ZONES.		LOCATION: LIBERTY DISTRICT, OHIO, WEST VIRGINIA		AS-DRILLED SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.099856° LONGITUDE: -80.560313°	
LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD ✕ ABANDONED WELL ⊗ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR (S) EXISTING SPRING (W) EXISTING WATER WELL — ACCESS ROAD — ACCESS ROAD TO PREV. SITE — HIGHWAY/INTERSTATE — COUNTY ROAD		AS-DRILLED BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.121490° LONGITUDE: -80.565173°		REVISIONS:	
				DATE: 01-11-2016 DRAWN BY: KJP SCALE: 1" = 2000' DRAWING NO: D30-2725 TOPOGRAPHIC MAP	

03/04/2016

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/12/2015
Job End Date:	8/8/2015
State:	West Virginia
County:	Ohio
API Number:	47-069-00179-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	Alice Edge 205H
Longitude:	-80.56080200
Latitude:	40.09977400
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	6,330
Total Base Water Volume (gal):	15,935,106
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, Breaker, Gelling Agent, Friction Reducer, Iron Control Agent, Fluid Loss Additive, Propping Agent					
			Water (Including Mix Water Supplied by Client)*	NA		83.41254	
			Quartz, Crystalline silica	14808-60-7	98.45937	16.33191	
			Hydrochloric acid	7647-01-0	1.25377	0.20797	
			Ammonium sulfate	7783-20-2	0.14754	0.02447	
			Acrylamide, 2-acrylamido-2-methylpropanesulfonic acid, sodium salt polymer	38193-60-1	0.10890	0.01806	
			Polymer of 2-acrylamido-2-methylpropanesulfonic acid sodium salt and methyl acrylate	136793-29-8	0.01167	0.00194	
			Urea	57-13-6	0.00716	0.00119	
			Methanol	67-56-1	0.00208	0.00034	
			Sodium sulfate	7757-82-6	0.00167	0.00028	
			Non-crystalline silica (impurity)	7631-86-9	0.00149	0.00025	
			Fatty acids, tall-oil	61790-12-3	0.00145	0.00024	

			Thiourea, polymer with formaldehyde and 1-phenylethanone	68527-49-1	0.00119	0.00020	
			Guar gum	9000-30-0	0.00113	0.00019	
			Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.00057	0.00009	
			2-propenamid	79-06-1	0.00036	0.00006	
			Propargyl alcohol	107-19-7	0.00038	0.00006	
			Tetrasodium ethylenediaminetetraacetate	64-02-8	0.00019	0.00003	
			Diammonium peroxidisulphate	7727-54-0	0.00009	0.00002	
			Hexadec-1-ene	629-73-2	0.00013	0.00002	
			Dimethyl siloxanes and silicones	63148-62-9	0.00010	0.00002	
			1-Octadecene (C18)	112-88-9	0.00006	0.00001	
			Sodium erythorbate	6381-77-7	0.00007	0.00001	
			Octamethylcyclotetrasiloxane	556-67-2	0.00001		
			Formaldehyde	50-00-0	0.00001		
			Siloxanes and silicones, dimethyl, reaction products with silica	67762-90-7	0.00001		
			Decamethyl cyclopentasiloxane	541-02-6	0.00001		
			Dodecamethylcyclohexasiloxane	540-97-6			
			Copper(II) sulfate	7758-98-7			

* 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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Field:		Ohio Co. WV										
Map Units:	usft											
Vertical Reference Datum (VRD):	Mean Sea Level											
Projected Coordinate System:	Zone 17N (84 W to 78 W)											
Section: PANHANDLE (ALICE EDGE)												
Company Name:	Southwestern Energy Company											
Units:	Feet											
TVD Reference:	Rotary Table											
Position:	Northings: 14,563,424.930	Latitude: 40.093269770										
	Eastings: 1,763,332.248	Longitude: 80.560455000										
North Reference:	Grid	Grid Convergence:	0.23									
Comment:												
Slot: ALICE EDGE OHI 205												
Position (Relative to SW Corner Of Section)												
N/S	-25.65	Northings: 14,563,399.280	Latitude: 40.098560000									
E/W	39.838	Eastings: 1,763,372.086	Longitude: 80.560313000									
Ground Level Elevation (usft):	Ground Level:											
Comment:												
Well: ALICE EDGE OHI 205												
Type:	Main well	Rig Height (Drill Floor):	20									
KB Elevation:	FKBrew # 1219-40usft (Nomaz 74)											
Closure Distance:	7994.35	Closure Azimuth:	349.932									
Comment:												
Vertical Section:												
Position of Origin (Relative to Slot centre):	N/S	0.00	E/W	0.00								
Vertical Section Azimuth:	336.66											
Survey												
Name:	Definitive Survey	Company:	SWN									
Magnetic Parameters:												
Model:	BGGM2014	Field Strength:	52,590									
Declination:	-8.78	Dip:	67.43									
Date:	10/16/2014											
Survey Tool Ranges:												
Survey Tool	Start MD (ft)	End MD (ft)	Source Survey									
SRG-GYRO-MS	100.00	585.00	NSG/SD/NOMMAC 74 (WB#1)									
MWD	713.00	14515.00	MWD/SD/NOMMAC 74 (WB#1)									
Survey Points: (Relative to Slot Centre, TVD Relative to Slot TVD Reference)												
MD (ft)	Inc	Az	TVD (ft)	+N/-S (ft)	+E/-W (ft)	V Sec (ft)	DLS (deg/100m)	Build Rate (deg/100m)	Turn Rate (deg/100m)	Survey Type	Survey Tool	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Surface		
100.00	0.16	89.47	100.00	0.05	0.13	-0.01	0.16	0.06	0.00	NSG/SD/NOMMAC 74 (WB#1)		
200.00	0.16	90.36	200.00	0.10	0.40	-0.07	0.36	0.00	20.89	NSG/SD/NOMMAC 74 (WB#1)		
300.00	0.17	122.65	300.00	0.07	0.69	-0.21	0.04	0.01	11.69	NSG/SD/NOMMAC 74 (WB#1)		
400.00	0.24	93.20	400.00	0.02	1.04	-0.39	0.06	0.07	-8.85	NSG/SD/NOMMAC 74 (WB#1)		
500.00	0.24	77.75	500.00	0.05	1.45	-0.53	0.06	0.00	-15.45	NSG/SD/NOMMAC 74 (WB#1)		
585.00	0.32	74.70	585.00	0.16	1.86	-0.59	0.10	0.06	-3.59	NSG/SD/NOMMAC 74 (WB#1)		
713.00	0.60	74.24	713.00	0.68	2.31	-0.79	0.29	0.06	-47.00	MWD/SD/NOMMAC 74 (WB#1)		
808.00	0.60	120.64	807.99	0.83	2.86	-0.37	0.80	0.21	101.16	MWD/SD/NOMMAC 74 (WB#1)		
903.00	2.40	83.64	902.96	0.70	5.32	-1.46	1.96	1.89	-23.16	MWD/SD/NOMMAC 74 (WB#1)		
997.00	5.60	98.34	996.72	0.08	11.82	-4.61	3.47	3.40	10.32	MWD/SD/NOMMAC 74 (WB#1)		
1092.00	8.40	98.74	1091.00	-1.65	23.27	-10.73	2.95	2.95	0.42	MWD/SD/NOMMAC 74 (WB#1)		
1187.00	8.60	104.44	1184.96	-4.47	37.01	-18.77	0.91	0.21	6.00	MWD/SD/NOMMAC 74 (WB#1)		
1281.00	8.20	109.24	1277.95	-8.43	50.14	-27.61	0.88	-0.43	5.11	MWD/SD/NOMMAC 74 (WB#1)		
1376.00	8.40	108.14	1371.95	-12.83	63.13	-36.79	0.27	0.21	-1.18	MWD/SD/NOMMAC 74 (WB#1)		
1471.00	8.00	114.04	1465.98	-17.58	75.77	-46.25	0.98	-0.42	6.21	MWD/SD/NOMMAC 74 (WB#1)		
1566.00	8.70	112.04	1559.98	-21.07	88.46	-56.23	0.80	0.74	-2.11	MWD/SD/NOMMAC 74 (WB#1)		
1661.00	8.30	102.14	1653.95	-27.74	101.54	-65.99	0.88	-0.83	-5.21	MWD/SD/NOMMAC 74 (WB#1)		
1756.00	8.60	107.94	1746.91	-31.94	114.65	-74.83	0.34	0.32	0.84	MWD/SD/NOMMAC 74 (WB#1)		
1851.00	7.60	107.34	1840.97	-36.00	127.60	-83.91	1.06	-1.05	-0.63	MWD/SD/NOMMAC 74 (WB#1)		
1946.00	7.80	107.14	1935.11	-39.76	139.76	-91.89	0.21	0.21	-0.21	MWD/SD/NOMMAC 74 (WB#1)		
2041.00	6.50	110.84	2029.37	-43.59	150.64	-99.83	1.45	-1.37	3.89	MWD/SD/NOMMAC 74 (WB#1)		
2136.00	7.00	105.34	2133.64	-47.46	162.65	-108.02	0.73	0.48	-4.87	MWD/SD/NOMMAC 74 (WB#1)		
2231.00	10.20	92.24	2227.57	-49.38	176.63	-115.32	3.98	3.37	-14.42	MWD/SD/NOMMAC 74 (WB#1)		
2326.00	11.70	80.34	2319.87	-48.21	194.36	-121.26	2.78	1.60	-13.02	MWD/SD/NOMMAC 74 (WB#1)		
2421.00	10.90	75.54	2413.03	-44.45	212.59	-125.63	1.40	0.64	-8.64	MWD/SD/NOMMAC 74 (WB#1)		
2516.00	13.00	72.64	2405.96	-39.21	231.47	-127.53	2.30	2.21	-3.05	MWD/SD/NOMMAC 74 (WB#1)		
2611.00	15.20	72.54	2397.13	-32.28	253.35	-130.02	2.34	2.34	0.53	MWD/SD/NOMMAC 74 (WB#1)		
2706.00	17.60	74.94	2388.18	-24.88	278.38	-133.53	2.88	2.84	1.89	MWD/SD/NOMMAC 74 (WB#1)		
2801.00	20.70	71.14	2378.89	-15.75	309.25	-136.91	3.26	2.98	4.04	MWD/SD/NOMMAC 74 (WB#1)		
2896.00	22.20	74.74	2365.32	-5.60	342.26	-140.74	2.10	1.58	3.79	MWD/SD/NOMMAC 74 (WB#1)		
2991.00	21.50	71.84	2353.45	4.55	376.12	-144.83	1.35	-0.74	-3.05	MWD/SD/NOMMAC 74 (WB#1)		
3086.00	20.20	71.04	3041.34	15.19	409.84	-147.63	1.42	-1.38	-0.85	MWD/SD/NOMMAC 74 (WB#1)		
3181.00	18.90	68.84	3129.92	25.99	437.38	-149.45	1.56	-1.38	-2.34	MWD/SD/NOMMAC 74 (WB#1)		
3276.00	20.10	67.64	3218.52	37.63	465.52	-150.59	1.35	1.28	-1.28	MWD/SD/NOMMAC 74 (WB#1)		
3371.00	21.40	68.74	3307.36	50.10	497.77	-151.22	1.43	1.39	1.18	MWD/SD/NOMMAC 74 (WB#1)		
3466.00	20.70	67.84	3396.02	62.72	529.47	-152.19	0.81	-0.74	-0.65	MWD/SD/NOMMAC 74 (WB#1)		
3561.00	22.10	69.74	3484.47	75.24	561.79	-153.49	1.64	1.47	2.00	MWD/SD/NOMMAC 74 (WB#1)		
3656.00	22.00	68.44	3572.52	87.66	593.10	-155.01	0.52	-1.17	-1.37	MWD/SD/NOMMAC 74 (WB#1)		
3751.00	20.50	70.34	3660.16	99.95	626.91	-155.60	1.85	-1.70	2.02	MWD/SD/NOMMAC 74 (WB#1)		
3846.00	19.50	69.64	3749.46	111.81	659.05	-157.66	1.63	-0.95	-3.89	MWD/SD/NOMMAC 74 (WB#1)		
3941.00	18.80	66.64	3839.20	124.65	686.45	-157.12	1.01	-0.74	-2.11	MWD/SD/NOMMAC 74 (WB#1)		
4036.00	18.80	63.34	3928.19	137.46	712.59	-156.23	0.24	0.00	0.74	MWD/SD/NOMMAC 74 (WB#1)		
4131.00	18.80	61.54	4017.85	150.33	741.45	-155.64	1.65	1.65	0.11	MWD/SD/NOMMAC 74 (WB#1)		
4226.00	21.40	69.54	4106.84	163.14	772.00	-155.06	2.23	1.70	4.36	MWD/SD/NOMMAC 74 (WB#1)		
4321.00	21.80	73.24	4194.17	174.29	802.13	-158.95	1.49	0.42	3.80	MWD/SD/NOMMAC 74 (WB#1)		
4416.00	20.80	73.04	4287.34	183.44	830.69	-162.41	1.30	-1.00	-2.30	MWD/SD/NOMMAC 74 (WB#1)		
4511.00	21.40	71.94	4375.04	196.21	871.77	-165.23	0.74	0.64	1.06	MWD/SD/NOMMAC 74 (WB#1)		
4606.00	19.80	74.44	4463.66	205.90	903.75	-169.00	1.62	-1.68	2.63	MWD/SD/NOMMAC 74 (WB#1)		
4701.00	18.70	72.44	4553.65	215.32	933.61	-172.19	1.81	-1.16	-4.21	MWD/SD/NOMMAC 74 (WB#1)		
4800.00	18.70	72.24	4643.97	224.77	962.14	-174.81	0.59	0.63	2.63	MWD/SD/NOMMAC 74 (WB#1)		
4894.00	15.30	73.74	4732.78	233.42	991.09	-178.83	1.23	1.17	5.85	MWD/SD/NOMMAC 74 (WB#1)		
4989.00	18.00	69.34	4822.80	242.85	1019.95	-181.11	1.87	-1.37	-4.00	MWD/SD/NOMMAC 74 (WB#1)		
5084.00	19.70	68.24	4912.70	251.83	1048.61	-182.39	1.88	1.79	-1.79	MWD/SD/NOMMAC 74 (WB#1)		
5179.00	16.80	64.84	5001.44	261.14	1077.03	-182.35	1.53	-0.96	-3.62	MWD/SD/NOMMAC 74 (WB#1)		
5274.00	19.60	67.54	5091.16	270.74	1105.92	-182.10	1.26	0.84	2.84	MWD/SD/NOMMAC 74 (WB#1)		
5369.00	20.30	69.74	5179.52	280.41	1135.48	-183.22	1.09	0.74	2.34	MWD/SD/NOMMAC 74 (WB#1)		
5464.00	21.00	63.64	5268.43	301.67	1166.20	-183.21	2.38	0.74	-6.42	MWD/SD/NOMMAC 74 (WB#1)		
5559.00	16.50	75.54	5357.57	316.52	1196.41	-183.39	2.97	-1.58	7.26	MWD/SD/NOMMAC 74 (WB#1)		
5654.00	15.00	67.44	5447.26	329.78	1225.94	-184.67	1.30	-0.53	-3.26	MWD/SD/NOMMAC 74 (WB#1)		
5749.00	20.20	69.74	5535.81	339.22	1255.20	-185.75	1.52	1.28	2.45	MWD/SD/NOMMAC 74 (WB#1)		
5844.00	19.80	64.34	5625.09	351.87	1284.80	-185.58	1.99	-0.42	5.68	MWD/SD/NOMMAC 74 (WB#1)		
5939.00	21.60	63.84	5713.95	366.55	1315.20	-185.47	1.90	1.80	0.53	MWD/SD/NOMMAC 74 (WB#1)		
6034.00	22.30	64.94	5774.24	377.05	1347.00	-185.51	1.25	1.06	1.69	MWD/SD/NOMMAC 74 (WB#1)		
6092.00	22.70	67.04	5821.36	384.88	1354.83	-183.28	1.76	0.78	4.12	MWD/SD/NOMMAC 74 (WB#1)		
6084.00	24.20	61.54	5853.72	390.52	1356.28	-182.74	8.29	4.69	-17.19	MWD/SD/NOMMAC 74 (WB#1)		

WELL NAME	STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
ALICE EDGE OHI 205	1	7/20/2015	14,252	14,337	42
ALICE EDGE OHI 205	2	7/20/2015	14,114	14,219	42
ALICE EDGE OHI 205	3	7/20/2015	13,976	14,081	42
ALICE EDGE OHI 205	4	7/21/2015	13,838	13,943	42
ALICE EDGE OHI 205	5	7/21/2015	13,700	13,800	42
ALICE EDGE OHI 205	6	7/21/2015	13,562	13,667	42
ALICE EDGE OHI 205	7	7/22/2015	13,429	13,529	42
ALICE EDGE OHI 205	8	7/22/2015	13,271	13,366	42
ALICE EDGE OHI 205	9	7/22/2015	13,141	13,240	42
ALICE EDGE OHI 205	10	7/23/2015	13,011	13,110	42
ALICE EDGE OHI 205	11	7/23/2015	12,881	12,980	42
ALICE EDGE OHI 205	12	7/23/2015	12,751	12,850	42
ALICE EDGE OHI 205	13	7/24/2015	12,621	12,720	42
ALICE EDGE OHI 205	14	7/24/2015	12,491	12,590	42
ALICE EDGE OHI 205	15	7/24/2015	12,361	12,460	42
ALICE EDGE OHI 205	16	7/25/2015	12,231	12,326	42
ALICE EDGE OHI 205	17	7/25/2015	12,101	12,200	42
ALICE EDGE OHI 205	18	7/25/2015	11,971	12,066	42
ALICE EDGE OHI 205	19	7/26/2015	11,837	11,940	42
ALICE EDGE OHI 205	20	7/26/2015	11,699	11,805	42
ALICE EDGE OHI 205	21	7/26/2015	11,561	11,667	42
ALICE EDGE OHI 205	22	7/28/2015	11,423	11,529	42
ALICE EDGE OHI 205	23	7/28/2015	11,285	11,391	42
ALICE EDGE OHI 205	24	7/28/2015	11,147	11,253	42
ALICE EDGE OHI 205	25	7/31/2015	11,009	11,115	42
ALICE EDGE OHI 205	26	7/31/2015	10,871	10,977	42
ALICE EDGE OHI 205	27	7/31/2015	10,733	10,839	42
ALICE EDGE OHI 205	28	8/1/2015	10,595	10,701	42
ALICE EDGE OHI 205	29	8/1/2015	10,457	10,563	42
ALICE EDGE OHI 205	30	8/2/2015	10,319	10,425	42
ALICE EDGE OHI 205	31	8/2/2015	10,181	10,287	42
ALICE EDGE OHI 205	32	8/3/2015	10,043	10,149	42
ALICE EDGE OHI 205	33	8/3/2015	9,905	10,011	42
ALICE EDGE OHI 205	34	8/3/2015	9,767	9,873	42
ALICE EDGE OHI 205	35	8/4/2015	9,629	9,735	42
ALICE EDGE OHI 205	36	8/4/2015	9,491	9,599	42
ALICE EDGE OHI 205	37	8/4/2015	9,353	9,459	42
ALICE EDGE OHI 205	38	8/5/2015	9,215	9,321	42
ALICE EDGE OHI 205	39	8/5/2015	9,077	9,183	42
ALICE EDGE OHI 205	40	8/5/2015	8,944	9,045	42
ALICE EDGE OHI 205	41	8/5/2015	8,798	8,907	42
ALICE EDGE OHI 205	42	8/6/2015	8,663	8,769	42
ALICE EDGE OHI 205	43	8/6/2015	8,525	8,625	42
ALICE EDGE OHI 205	44	8/6/2015	8,387	8,493	42
ALICE EDGE OHI 205	45	8/7/2015	8,249	8,355	42
ALICE EDGE OHI 205	46	8/7/2015	8,108	8,217	42

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ALICE EDGE OHI 205	47	8/7/2015	7,973	8,079	42
ALICE EDGE OHI 205	48	8/7/2015	7,835	7,941	42
ALICE EDGE OHI 205	49	8/8/2015	7,697	7,803	42
ALICE EDGE OHI 205	50	8/8/2015	7,559	7,665	42
ALICE EDGE OHI 205	51	8/8/2015	7,421	7,527	42
ALICE EDGE OHI 205	52	8/9/2015	7,283	7,389	42

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