

Latitude: 40°20'00"

SURFACE HOLE 10514'

Latitude: 40°22'30"

BOTTOM HOLE 4993'

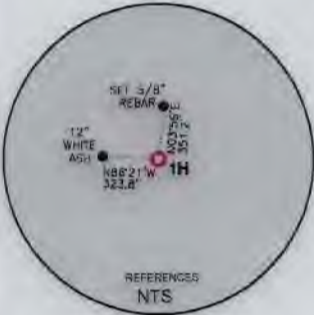
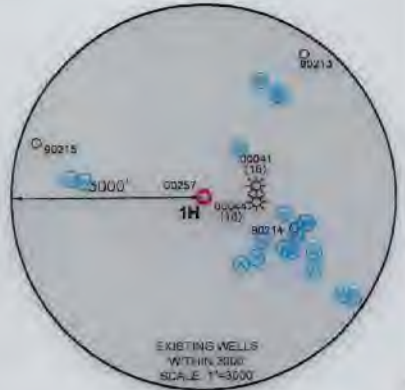
JACKSON SURVEYING INC.

2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851

Table with columns: LINE, BEARING, DISTANCE, DESCRIPTION, MONUMENT. Contains data for lines L1-L5 and L3-L5.

Table listing SURFACE HOLE LOCATION (SHL), LANDING POINT LOCATION (LPL), ZIMUTH POINT LOCATION-1 (AZL1), ZIMUTH POINT LOCATION-2 (AZL2), ZIMUTH POINT LOCATION-3 (AZL3), ZIMUTH POINT LOCATION-4 (AZL4), and BOTTOM HOLE LOCATION (BHL) with TM, ORTHING, and ASTING coordinates.

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



WELL RESTRICTIONS

- 1. NO OCCUPIED DWELLINGS > 2500 SQ FT WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT WITHIN 625 FEET OF CENTER OF PAD.
3. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
4. NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 200 FEET OF LIMITS OF DISTURBANCE.
6. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

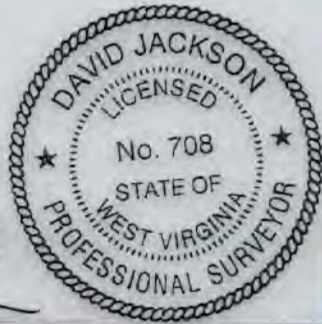
NOTES ON SURVEY

- 1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 708

David L Jackson



3000 0 3000

GRAPHIC SCALE IN FEET

COMPANY: SWN Production Company, LLC



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)

STATE OF WV DNR C BRK
OPERATOR'S WELL #: 1H
API WELL #: 47 STATE COUNTY PERMIT 009 00315

Form with fields for WELL TYPE (Oil, Gas, etc.), WATERSHED, DISTRICT, SURFACE OWNER, OIL & GAS ROYALTY OWNER, DRILL type, TARGET FORMATION, and ESTIMATED DEPTH.

Form with fields for WELL OPERATOR (SWN PRODUCTION COMPANY, LLC), ADDRESS, CITY, STATE, ZIP CODE, and DESIGNATED AGENT (BRITTANY WOODY).

Table with columns: LEGEND (PROPOSED SURFACE HOLE, EXISTING WELLHEAD, etc.), REVISIONS, DATE (05-07-2020), DRAWN BY (N. MANO), SCALE (1\"/>



47-009-00315

REVISIONS:
REVISED REFERENCES 06-05-2020

COMPANY:	SWN Production Company, LLC
OPERATOR'S	STATE OF WV DNR C BRK
WELL #:	1H
DISTRICT:	CROSS CREEK
COUNTY:	BROOKE
STATE:	WV

SWN <i>R-V+</i>	DATE: 05-07-2020
Production Company™	DRAWN BY: N. MANO
	SCALE: N/A
	DRAWING NO:
	WELL LOCATION PLAT 2

**JACKSON SURVEYING
INC.**

2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851

Well Bore Tracts

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION (S/R)	4-CC20-06
TRACT	SURFACE OWNER	TAX PARCEL
2	GRETCHEN MOORE LANGEVIN, TRUSTEE & WESTBANCO BANK, INC. (S)	4-CC20-05
3	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION (S)	4-CC19-168
4	JASON P. NUZUM (S)	4-CC19-114
5	JASON P. NUZUM (S)	4-CC15-70
6	PETER D. BLASKOVICH & RUTH M. BLASKOVICH (S)	4-CC15-71
7	RUTH M. BLASKOVICH (S)	4-CC15-69
8	EVA B. CATLETT (S)	4-CC15-68
9	FRANK REED LARKEY (S)	4-CC15-68.2
10	LARRY E. REED (S)	4-C15L-45
11	LARRY REED (S)	4-CC15-67
12	LARRY E. REED (S)	4-C15G-33
13	GEORGE C. STAATS & FRANCIS M. STAATS (S)	4-C15G-40
14	BOBBY MILLER (S)	4-C15G-47
15	LEE ELTRINGHAM (S)	4-C15G-63
16	THOMAS RAY GOFF (S)	4-C15C-31
17	WILLIAM DONALD ELTRINGHAM JR. & BONNIE LUCILLE ELTRINGHAM (S)	4-C15C-29
18	BONNIE LUCILLE ELTRINGHAM (S)	4-C15C-30.1
19	GERALD C. BRADY & CARLA L. BRADY (S)	4-C15C-25
20	GERALD C. BRADY & CARLA L. BRADY (S)	4-C15C-24
21	CHARLES DAVID JOHNSON & SANDRA K. JOHNSON (S)	4-C15C-22
22	FRED WELSHANS JR. & CHRIS E. WELSHANS (S)	4-CC11-95



ADJOINING OWNERS TABLE

TRACT	Surface owners	TAX PARCEL
A	RONALD A. REED	4-CC15-68.3
B	LENORA J. RINEHART	4-CC15-74
C	RYAN POWELL, & KELLY POWELL	4-CC15-73
D	PETER D. BLAKOVICH & HELEN S. BLASKOVICH	4-CC15-72
E	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	4-CC16-06
F	JASON P. NUZUM	4-CC19-113
G	SUSAN BREEN & KELLY HANNAOUI, TRUSTEES OF THE WILLIAM C. SAUNDERS 2019 IRREVOCABLE TRUST DATED NOVEMBER 21, 2019	4-CC20-02
H	STACI BREEN & PATRICIA BREEN	4-CC20-03
I	SUSAN BREEN & KELLY HANNAOUI, TRUSTEES OF THE WILLIAM C. SAUNDERS 2019 IRREVOCABLE TRUST DATED NOVEMBER 21, 2019	4-CC20-23
J	JOHN ERNEST MILLER & JESSE ANDREW MILLER	4-CC20-04
K	SUSAN D. BREEN & DENNIS M. BREEN	4-CC20-22
L	COLLIER'S SPORTSMAN CLUB	4-CC20-21
M	WILLIAM MORGAN ROUSE & DORIS J. ROUSE	4-CC20-20
N	LINDY L. BLACK	4-CC20-07
O	LINDY L. GALIANO & SANTY GALIANO	4-CC20-19.1
P	EDWARD L. CARTER & DEBORAH C. CARTER	4-CC20-18
Q	EDWARD L. CARTER & DEBORAH C. CARTER	4-CC20-17
R	ERIC T. GALIANO	4-CC20-16
S	ERIC T. GALIANO	4-CC20-14
T	ERIC T. GALIANO	4-CC20-19
U	KEVIN MCCONNELL	4-CC20-11
V	SUSAN KAY PRONCHIK	4-CC20-08
W	BARBARA J. MCCONNELL	4-CC20-10

ADJOINING OWNERS TABLE

TRACT	Surface owners	TAX PARCEL
X	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	4-CC19-169
Y	DOUGLAS P. EMMERTH & PAMELA L. EMMERTH	4-CC19-165
Z	DOUGLAS P. EMMERTH & PAMELA L. EMMERTH	4-CC19-166
A2	DOUGLAS P. EMMERTH & PAMELA L. EMMERTH	4-CC19-167.1
B2	DOUGLAS P. EMMERTH & PAMELA L. EMMERTH	4-CC19-167
C2	ERIC M. WILSON	4-CC19-155.2
D2	SANDRA DEMARK ZINK	4-CC19-145
E2	MELANIE DIANE CHEEK	4-CC19-141
F2	MELANIE DIANE CHEEK	4-CC19-142
G2	PITTSBURGH & WV RAILWAY	4-CC19-134
H2	LONNIE V. BLAKE, CARRIE R. BLAKE, SUSAN MAIN & SANDRA I. WYSATSKI	4-CC19-139
I2	RONALD L. LAW	4-CC19-122
J2	SETH R. PARR & CHRISTIAN D. PARR (LE - RAYMOND J. PARR & SARA E PARR)	4-CC19-119.3
K2	OKEY TREDWAY JR. & CONSTANCE FAITH BEATTY BUCY	4-CC19-117
L2	SARAH ELIZABETH PARR	4-CC19-119
M2	CLARENCE I. JONES & DORIS JONES	4-CC19-112
N2	CLARENCE I. JONES & DORIS JONES	4-CC19-111
O2	GERALD E. GOURLEY	4-CC19-103
P2	GARY LEE LOAR & SANDRA L. LOAR	4-CC15-52
Q2	RONALD A REED	p/o 4-C15L-45
R2	KAREN SUE REED - GEHRLING, TRUSTEE OF THE REED- GERHLING FAMILY TRUST DATED OCTOBER 17, 2008	4-C15L-45.11
S2	LARRY REED	4-C15L-51
T2	JOSEPH EDWARD REED III	4-C15L-45.6

47-009-00315

REVISIONS:	COMPANY:	 	
REVISED REFERENCES 06-05-2020			
OPERATOR'S		STATE OF WV DNR C BRK	
WELL #:		1H	
DISTRICT:	COUNTY:	STATE:	DATE: 05-07-2020
CROSS CREEK	BROOKE	WV	DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 3

**JACKSON SURVEYING
INC.**

2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851



ADJOINING OWNERS TABLE

TRACT	Surface owners	TAX PARCEL
U2	JOHN W. GARRETT & MELISSA A GARRETT	4-C15L-70
V2	SEAN T. STOLL & DANA M. STOLL	4-C15L-06
W2	CINDY BATES & THERESA J. HERVEY (LE - ELENTA JANE DUELEY & ERMEL DUELEY)	4-C15L-05
X2	MICHAEL KURT FLOYD & KAREN ANN FLOYD	4-C15L-04
Y2	DAVID R. BUFFINGTON & BETTY JANE BEEMAN	4-C15L-03
Z2	MICHAEL L. MCCARTHY & SHARON MCCARTHY	4-C15L-02
A3	LADONNA A. WARRICK	4-C15L-65
B3	LADONNA A. WARRICK	4-C15L-66
C3	JAMIE E. GOVEY & TIM A. GOVEY	4-C15L-64
D3	JAMIE E. GOVEY & TIM A. GOVEY	4-C15L-61
E3	JAMIE E. GOVEY & TIM A. GOVEY	4-C15L-60
F3	DIANE MERRILL, TRUSTEE OF GUNDRUM IRREVOCABLE TRUST DATED AUGUST 8, 2019	4-C15L-47
G3	DIANE MERRILL, TRUSTEE OF GUNDRUM IRREVOCABLE TRUST DATED AUGUST 8, 2019	4-C15L-45.3
H3	JJOSEPH E. REED & MELISSA REED	4-C15L-48
I3	ALECIA L. ELSON	4-C15G-38
J3	ALECIA L. ELSON	4-C15G-39.1
K3	GARY C. CARMAN & SANDRA CARMAN	4-C15G-37
L3	JACK R. MINGER JR. & BONNIE J MINGER	4-C15G-65
M3	CHARLES A. BOMBORIS	4-C15G-27
N3	PETER A. ERROR	4-C15G-42
O3	GEORGE C. STAATS & FRANCIS M. STAATS	4-C15G-41
P3	GEORGE C. STAATS & FRANCIS M. STAATS	4-C15G-39
Q3	DREAMA M. THOMPSON	4-C15G-47.2
R3	DAVID M. BRULA & LINDA BRULA	4-C15G-47.1
S3	PHILLIP E. JOHNSON & ADELINA M. JOHSON	4-C15G-49
T3	DAVID BRUCE LANCASTER & VIOLET L. LANCASTER	4-C15G-50.1
U3	GARY STRAKA & BETTY STRAKA	4-C15G-52
V3	GARY STRAKA & BETTY D. STRAKA	4-C15G-51
W3	LEE ELTRINGHAM	4-C15G-68
X3	JOHN W. BENNETT JR. & CONNIE R. BENNETT	4-C15G-03
Y3	JOHN W. BENNETT JR. & CONNIE R. BENNETT	4-C15G-02
Z3	RONALD L. LANCASTER & VIOLET LANCASTER	4-C15G-01
A4	RONALD L. LANCASTER & JAMIE L. LANCASTER	4-C15C-28.2
B4	JOHN E. DOAK & LINDSAY A. DOAK	4-C15C-27
C4	JOHN E. DOAK & LINDSAY A. DOAK	4-C15C-26
D4	JOHN BENNETT & CONNIE BENNETT	4-C15C-28
E4	CHARLES D. JOHNSON & SANDRA K. JOHNSON	4-C15C-23
F4	FRED WELSHANS JR. & CHRIS E. WELSHANS	4-C15B-29
G4	CHARLES F. BAKER & SHERYL L. BAKER	4-C15B-28
H4	DONALD UTZ & JANE UTZ	4-C15B-28.4
I4	PATRICIA CROSS, JOHN PATTERSON, ET AL	4-C11P-64
J4	GAIL L. TENNANT	4-C11L-80
K4	GAIL L. TENNANT	4-C11L-79
L4	JACQUELYN J. WILLIAMSON & JAMES E. MILLER	4-C11L-78
M4	TOMMY GASPARINE	4-C11L-77
N4	WILLIAM C. PHILLIPS II	4-C11L-76
O4	GARY L. HELMS & KIMBERLY HELMS	4-C11L-74

ADJOINING OWNERS TABLE

TRACT	Surface owners	TAX PARCEL
P4	CHRISTINE DERBER, ET AL	4-C11L-75
Q4	MICHAEL D. LANCE	4-C11L-15
R4	OREN W. LITTLE	4-C11L-87
S4	DWIGHT & MARY DICKEY	4-C11L-14
T4	DONALD G. CONAWAY	4-CC11-92
U4	RAMON L. BOWEN, TRUSTEE OF THE RAMON L. BOWEN IRREVOCABLE TRUST DATED FEBRUARY 3, 2020	4-CC11-91
V4	DONALD E. SIPPEL & DOREEN E. SIPPEL	4-CC11-93
W4	DONALD E. SIPPEL & DOREEN E. SIPPEL	4-CC11-94
X4	RAYMOND MARSHALL BOWEN	4-C15C-01
Y4	CHAD A. RICCELLI	4-C15C-22.1
Z4	GARY E. DENNIS & LORI ANN DENNIS	4-C15C-06
A5	GARY A. DENNIS & LORI ANN DENNIS	4-C15C-05
B5	THOMAS G. MOORE & KATHY J MOORE	4-C15C-04
C5	ALBERT C. BARTON	4-C15C-16.1
D5	LARRY TOMSHACK	4-C15C-10
E5	SHERIL WILLIAM LEMASTERS & BRENDA SUE LEMASTERS	4-C15C-11
F5	SHERIL WILLIAM LEMASTERS & BRENDA S. LEMASTERS	4-C15C-12
G5	VERNA FLUHARTY & SANDRA SUMMERS	4-C15C-19
H5	VERNA FLUHARTY & SANDRA SUMMERS	4-C15C-20
I5	VERNA FLUHARTY & SANDRA SUMMERS	4-C15C-21
J5	MICHAEL R. FABIAN & JODY L. FABIAN	4-C15C-32
K5	DONALD J. BARTOLETTI	4-C15G-58
L5	RICHARD L. LANTZ	4-C15G-62
M5	LEE ELTRINGHAM	4-C15G-63
N5	JOHN MESTER	4-C15H-5
O5	CHARLIE I. DULANEY & ANGELA J. DULANEY	4-C15H-8
P5	LARRY E. REED	4-C15H-20
Q5	LARRY REED	4-C15H-09
R5	ROSE VAN HEMERT	4-C15H-12
S5	LARRY E. REED	4-CC15-68.1

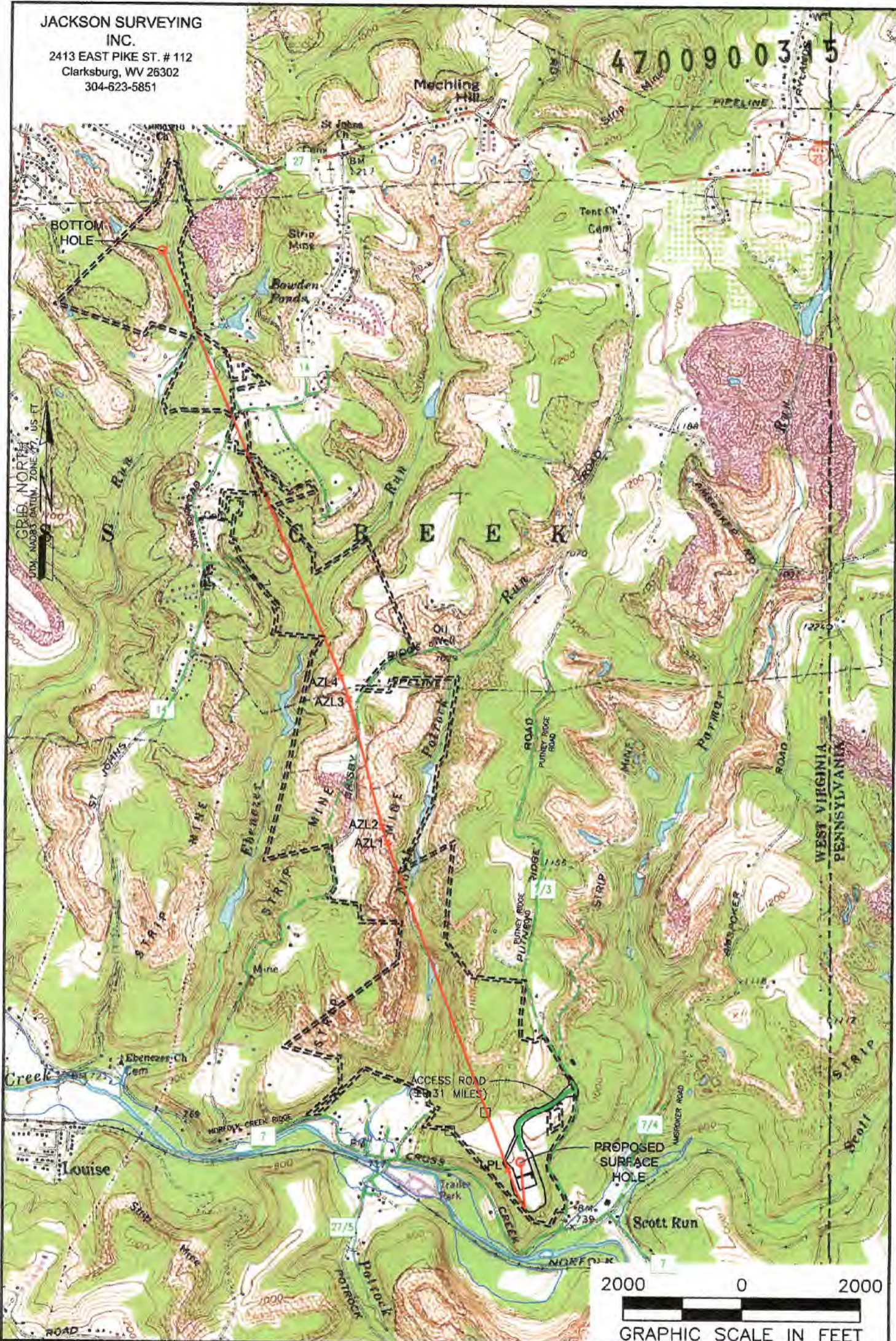
47-009-00315

REVISIONS: Δ REVISED REFERENCES 06-05-2020	COMPANY: 	
OPERATOR'S WELL #:	STATE OF WV DNR C BRK 1H	DATE: 05-07-2020
DISTRICT: CROSS CREEK	COUNTY: BROOKE	STATE: WV
		DRAWN BY: N. MANO SCALE: N/A DRAWING NO: WELL LOCATION PLAT 4

**JACKSON SURVEYING
INC.**

2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851

4700900315



NOTES ON SURVEY

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LANDING POINT LOCATION
- FLOOD PLAIN
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH
- AZL* AZIMUTH POINT LOCATION

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC		WELL (FARM) NAME: STATE OF WV DNR C BRK		WELL # 1H	SERIAL #
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WV 26508		COUNTY - CODE BROOKE - 009	DISTRICT: CROSS CREEK		
SURFACE OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION		USGS 7 1/2 QUADRANGLE MAP NAME STUEBENVILLE EAST, WV			