

Latitude: 40°20'00"

SURFACE HOLE 10,530'

BOTTOM HOLE 1,373'

JACKSON SURVEYING Latitude: 40°15'00"

INC.

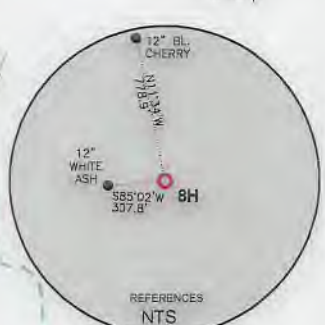
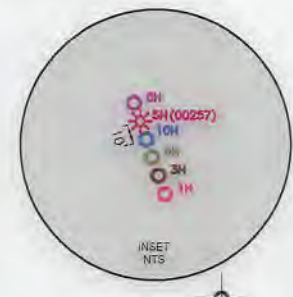
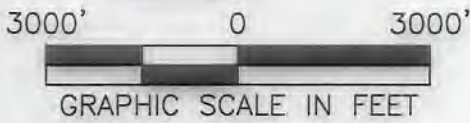
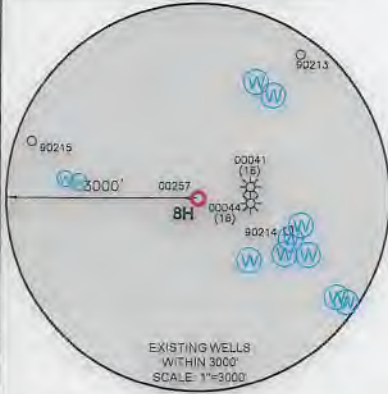
2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,461,423.234
EASTING: 539,281.417

LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,461,343.934
EASTING: 539,417.681

BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,454,491.462
EASTING: 542,111.811

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



LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 67°58'24" W	1281.56'	SHL TO LANDMARK	2" IRON PIPE FOUND
L2	N 36°30'24" W	988.12'	SHL TO LANDMARK	STONE FOUND

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 59°48'09" E	517.25'	1094.15'	SHL TO LP

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 300 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.
3. 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



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

COMPANY: **SWN** Production Company, LLC
SWN ^{R₂-V₁+}_A Production Company™

STATE OF WV DNR C BRK
OPERATOR'S WELL #: 8H
API WELL #: 47 009 00310
STATE COUNTY PERMIT

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

WATERSHED: NORTH FORK CROSS CREEK - CROSS CREEK (HUC-10) ELEVATION: 990.0'

DISTRICT: CROSS CREEK COUNTY: BROOKE QUADRANGLE: STEUBENVILLE EAST, WV

SURFACE OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION ACREAGE: ±83.858

OIL & GAS ROYALTY OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION ACREAGE: ±83.858

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: 5,918 TVD 30,196 TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508



DESIGNATED AGENT: BRITTANY WOODY
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:	REVISIONS:	DATE:
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— DRILLING UNIT	03-12-2020
★ EXISTING / PRODUCING WELLHEAD	— LEASE BOUNDARY	
LPL★ LANDING POINT LOCATION	— PROPOSED PATH	DRAWN BY: N. MANO
⊙ EXISTING WATER WELL	AZL★ AZIMUTH POINT LOCATION	SCALE: 1" = 3000'
⊙ EXISTING SPRING		DRAWING NO:
		WELL LOCATION PLAT

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

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
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	SUSAN KAY PRONCHIK (S)	4-CC20-08
3	BARBARA J. MCCONNELL (S)	4-CC20-10
4	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION (S)	4-CC19-169
5	NICKOLES 3, LLC (S)	4-CC20-33
6	NORFOLK & WESTERN RAILWAY CO. (S)	4-C19K-18
7	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION (S)	4-CC23-325
8	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION (S)	4-CC24-03
9	MICHAEL OBER (S)	4-CC24-07
10	DEAN SMITH (S)	4-CC24-98
11	DEAN SMITH (S)	4-CC24-99
12	JOHN R. COOK & BEVERLY A. COOK (S)	04-CC24-97
13	WILLIAM L. MONK & TINA M. MONK (S)	4-CC24-99.4
14	BRIAN M. TAYLOR (S)	04-CC24-100
15	BRIAN TAYLOR (S)	4-CC24-99.5
16	BRIAN TAYLOR (S)	4-CC24-133
17	COREY T. CARROLL & KATELYN N. SWAGER (S)	4-CC24-134
18	RYAN E. HALL & NICOLE M. STANLEY (S)	4-CC24-137
19	JASON MICHAEL KUSIC & ALICIA RENEE KUSIC (S)	4-CC24-136
20	JOHN L. DAVIS & F. LYNN DAVIS (S)	4-CC24-145
21	MICHAEL D. JONES & LOIS J. JONES (S)	4-CC24-128
22	JOSEPH M. WHITE & RACHEL E. WHITE (S)	4-CC29-39.19
23	JOSEPH M. WHITE & RACHEL E. WHITE (S)	4-CC29-39.18
24	ELLEN CATTARUZZA (S)	4-CC29-39
25	JOSEPH E. CROSS JR. & JENNIFER L. CROSS (S)	4-CC29-39.17
26	JOSEPH E. CROSS JR. & JENNIFER L. CROSS (S)	4-CC29-39.21
27	DAVID H. MCCLAIN & KAREN MCCLAIN (S)	4-CC29-39.7
28	DEBRA CYPHERT, MATTHEW FAIR & SUSAN BRUFFY (S)	4-CC29-57
29	STATE LINE REAL ESTATE LLC (S)	370-004-00-00-0001-00
30	NICOLE R. SMITH & NEAL E. SMITH (S)	370-007-00-00-0001-02
31	RYAN M. SMITH & BROOKE N. SMITH (S)	370-007-00-00-0001-01
32	JOSEPH D. DEPETRO III (S)	370-007-00-00-0001-00
33	CHERYL BUTYA (S)	370-007-00-00-0002-01
34	ROBERT G. BRIGGS & NANCY L. BRIGGS (S)	370-007-00-00-0002-00
35	ROBERT G. McALPINE & RHONDA McALPINE (S)	370-007-00-00-0002-04
36	BROWNLEE LAND VENT LP (S)	370-007-00-00-0005-00
37	JOSEPH J. DEPETRO III (S)	370-011-00-00-0009-00

ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
A	LINDY L. BLACK	04-CC20-07	Z	GREG NICKOLES & CAROL NICKOLES	04-C24B-14
B	JUDITH ANN BERNARDINI	04-CC20-09	A2	H3, LLC.	04-C24B-15
C	MICHAEL LEE BERNARDINI & JULIE LYNN BERNARDINI	04-CC20-44	B2	GREG NICKOLES & CAROL NICKOLES	04-C24B-16
D	LARRY E. REED	04-CC24-02	C2	RANDY L. NICKOLES	04-C24B-33
E	MICHAEL L. OBER	04-CC24-01	D2	RANDY L. NICKOLES	04-C24B-08
F	WILLIAM MORGAN ROUSE & DORIS J. ROUSE	04-CC20-20	E2	ANNETTE MILLER & FRANK MCQUILLIAN & ANNA MAE MCQUILLIAN	04-C24B-07
G	LINDY L. GALIANO & SANTY GALIANO	04-CC20-19.1	F2	GREGORY NICKOLES	04-C24B-06
H	EDWARD L. CARTER & DEBORAH C. CARTER	04-CC20-18	G2	DEBRA MCQUILLIAN & ANNETTE MILLER	04-C24B-27
I	EDWARD L. CARTER & DEBORAH C. CARTER	04-CC20-17	H2	DEBRA MCQUILLIAN & ANNETTE MILLER	04-C24B-28
J	ERIC T. GALIANO	04-CC20-16	I2	JANE KIERCE	04-C24B-04
K	ERIC T. GALIANO	04-CC20-14	J2	WVA DEPARTMENT OF HIGHWAYS	04-C24B-03
L	ERIC T. GALIANO	04-CC20-19	K2	EDWARD L. THOMPSON & CAROL J. THOMPSON	04-C24B-02
M	KEVIN MCCONNELL	04-CC20-11	L2	JEFFERY NICKOLES, RANDY NICKOLES & GREGORY NICKOLES	04-C24B-01
N	NORFOLK & WESTERN RAILWAY CO.	04-C24B-29	M2	JEFFERY O. NICKOLES	04-CC20-33.1
O	MICHAEL L. OBER	04-C24F-01	N2	JAMES JOHNSON & CHARLENE JOHNSON	04-CC20-43
P	MICHAEL L. OBER	04-C24F-10	O2	TIMOTHY J. DISERIO	04-CC20-42
Q	MICHAEL L. OBER	04-C24F-09	P2	ROBERT G. HIGGINBOTHAM JR.	04-CC20-41
R	JOSEPH SANTORO & LINA SANTORO	04-C24F-08	Q2	RON GASPARENE	04-CC20-40
S	ROBERT ANKROM & PEGGY ANKROM	04-C24F-12	R2	WILLIAM & MILDRED T. MARINO	04-CC20-35
T	ROBERT ANKROM & PEGGY ANKROM	04-C24F-13	S2	ROBERT & DELORIS CLINE	04-CC20-34
U	NORFOLK & WESTERN RAILWAY CO.	04-C19K-18	T2	WILLIAM MORGAN ROUSE & DORIS J. ROUSE	04-CC20-20
V	JAMES JOHNSON & CHARLENE JOHNSON	04-C24B-10	U2	DEBORAH K. SLIDAY	04-CC20-32
W	GREG NICKOLES & CAROL NICKOLES	04-C24B-11	V2	STATE OF WV DNR	04-CC20-25
X	GREG NICKOLES & CAROL NICKOLES	04-C24B-12	W2	CALVIN H. MYERS JR.	380-014-00-00-0002-00
Y	GREG NICKOLES & CAROL NICKOLES	04-C24B-13			

REVISIONS:	COMPANY:	 	
	OPERATOR'S	STATE OF WV DNR C BRK	
	WELL #:	47-009-00310 8H	
	DISTRICT:	COUNTY:	STATE:
	CROSS CREEK	BROOKE	WV
			DATE: 03-12-2020
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 3

