

JACKSON SURVEYING INC.

P.O. Box 1460
677 W. Main St.
Clarksburg, WV 26302
304-623-5851

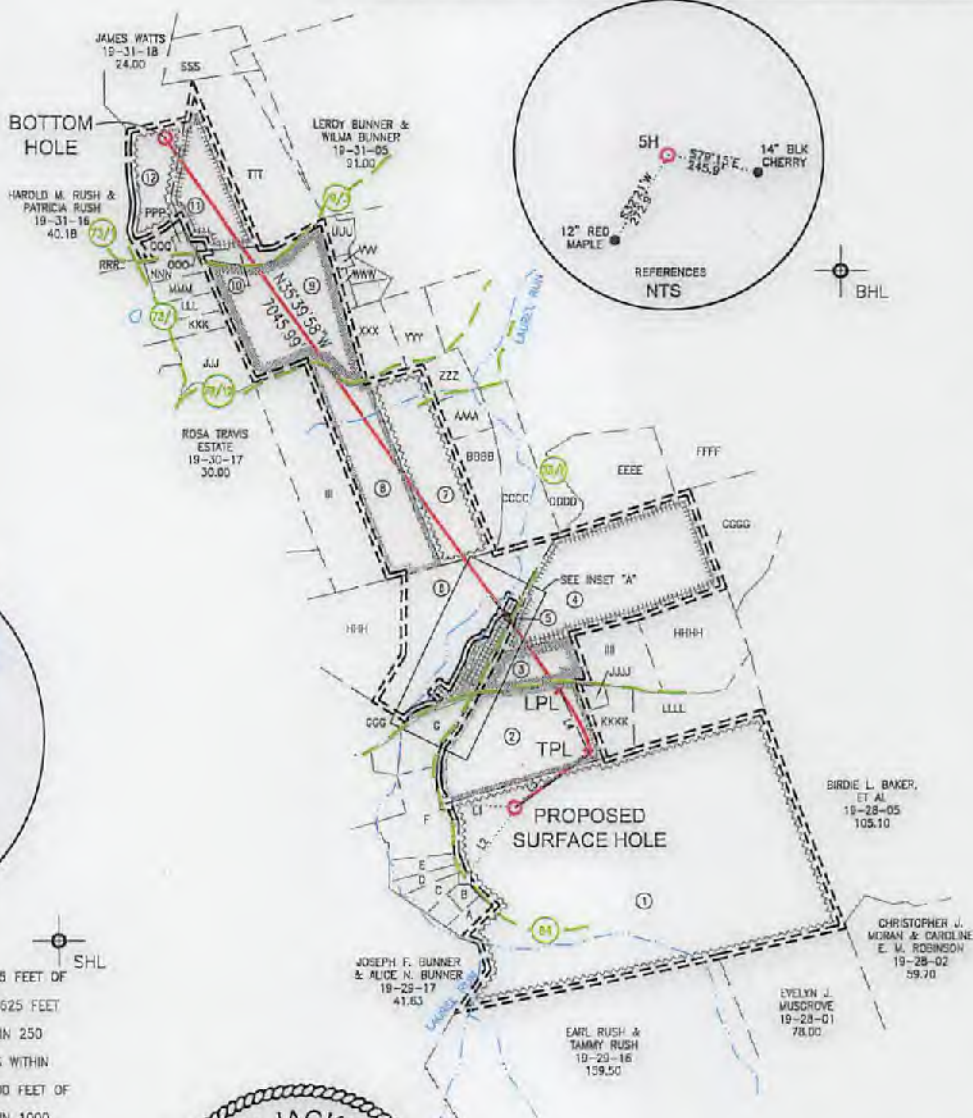
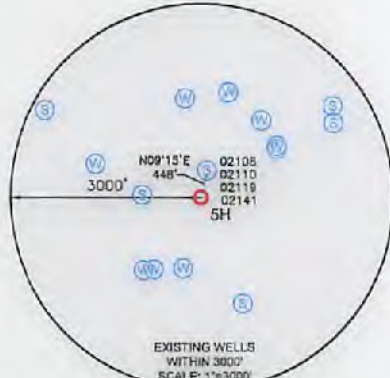
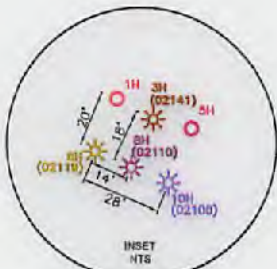
GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,368,546.175 EASTING: 585,504.039
TURNING POINT LOCATION (TPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,368,714.172 EASTING: 586,738.132
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,368,916.816 EASTING: 586,645.442
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,370,661.604 EASTING: 585,393.245

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 86°46'42" W	731.04'	SHL TO LANDMARK	1/2" REBAR FOUND
L2	S 36°14'20" W	913.51'	SHL TO LANDMARK	1/2" REBAR FOUND
L3	N 54°20'06" E	945.33'	SHL TO LANDMARK	TPL
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L4	N 24°34'46" W	731.09'	753.07'	TPL TO LPL

BOTTOM HOLE 6805'
SURFACE HOLE 13788'

(FAIRMONT EAST) Longitude: 80°00'00"
(GLADESVILLE) Longitude: 79°57'30"



WELL RESTRICTIONS

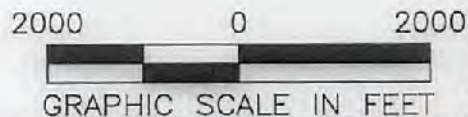
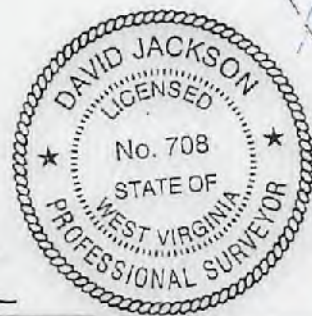
- NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
- PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 1000 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
- 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

- 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.
 - THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 - 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



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

EDWIN BUNNER MRN
OPERATOR'S WELL #: 5H
API WELL #: 47 STATE 049 COUNTY 02461 PERMIT HGA

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

WATERSHED: LAUREL RUN OF WHITEDAY CREEK OF UPPER MONONGAHELA RIVER (HUC-10) ELEVATION: 1466.9'

DISTRICT: WINFIELD COUNTY: MARION QUADRANGLE: GLADESVILLE, WV

SURFACE OWNER: SEE TRACT 1 ON PAGE 2 ACREAGE: ±193.25

OIL & GAS ROYALTY OWNER: SEE TRACT 1 ON PAGE 2 ACREAGE: ±193.25

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: 7,317' **09/22/2017**

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:	— SURVEYED BOUNDARY	REVISIONS:	DATE: 07-05-2017
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— DRILLING UNIT		
⊙ EXISTING / PRODUCING WELLHEAD	== LEASE BOUNDARY		
LPL* LANDING POINT LOCATION	— PROPOSED PATH		
⊕ EXISTING WATER WELL			
⊙ EXISTING SPRING			
			DRAWN BY: N. MANO
			SCALE: 1" = 2000'
			DRAWING NO:
			WELL LOCATION PLAT



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WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS			
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	EDWIN L. BUNNER & SANDRA J. BUNNER, BERNICE E. MILLER, BARBARA A. GREENE, MYRON R. MILLER, RICHARD T. MORGAN, JR., RICHARD EARL HUGHES, KENITA K. MASSARO & EUGENE J. MASSARO, CATHY JO KELLEY, CRYSTAL D. HAYNES, LUCILLE MCKINNEY, STEPHEN DWIGHT HUGHES, PAMELA ROSE SNYDER, JASON MULIK, CHRYSTLE DAWN BOLYARD, JUDITH JEANNETTE CLINE, TERESA WILLIAMS, VALERIE D. BOLTON, LESTER PRICE LAKE, NANCY L. HILL, A.K.A. NANCY L. SOSSOMAN, NAOMI CLAUDINE LAKE, RANDY WAYNE LAKE, LARRY JACKSON SHUTTLEWORTH, TERRY ROBERTS SHUTTLEWORTH, DARRELL L. SHUTTLESWORTH, JIMMY EUGENE LAKE, JUDY STAINBROOK, KENNETH LEO LAKE, JR., WILLIAM E. LAKE & JOYCE E. LAKE, RICHARD A. LAKE, JR., CRYSTAL LAKE BOUND, MICHAEL R. LAKE (S)/(R)	19-28-8	193.25
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
2	LUELLA M. ROBE (S)	19-28-7	33.66
3	FRANKLIN T. BUNNER & VIRGINIA K. BUNNER (S)	19-30-3.1	10.00
4	EDWIN D. BUNNER (S)	19-30-2	50.84
5	DEANNA F. HUMPHREY & JAMES R. HUMPHREY	19-30A-05	0.057
6	ROBERT LEE HARR & DORIS GLENNA HARR, TRUSTEES OF THE ROBERT LEE HARR & DORIS GLENNA HARR TRUST (S)	19-30-01	53.13
7	GARY RUSSELL RUSH (S)	19-30-16.3	28.79
8	PATRICK W. KNIGHT & MEREDITH B. KNIGHT (S)	19-30-16.2	30.60
9	JOHN R. PHEASANT (S)	19-31-4	38.75
10	LUTHER HUFFMAN; MELONY A. (HUFFMAN) COLLINSWORTH(S)	19-31-12.4	3.03
11	LUTHER HUFFMAN; MELONY A. (HUFFMAN) COLLINSWORTH(S)	19-31-12.1	21.89
12	NANCY ALICE COTTRELL & LEO EUGENE COTTRELL (S)	19-31-13	14.10

ADJOINING OWNERS TABLE				ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES	TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	MISTY FLUHARTY	19-29-19.7	2.00	VV	EVERETT E. WATKINS, JR.	19-30A-57	0.057
B	LEAH A. HARLOW	19-29-19.11	1.50	WW	WINFORD C. MCHENRY & RUSSELL A. MCHENRY & VIRGINIA D. SHAW	19-30A-68	0.057
C	VIRGINIA K. BUNNER & FRANKLIN BUNNER	19-29-19.5	2.452	XX	ROBERT B. STEVENSON & SUSAN L. STEVENSON	19-30A-69	0.057
D	FRANKLIN T. BUNNER & VIRGINIA K. BUNNER	19-29-19.6	2.452	YY	ROBERT B. STEVENSON & SUSAN L. STEVENSON	19-30A-70	0.057
E	EARL F. HUFFMAN, JR. & CAROL A. HUFFMAN	19-29-19.9	2.452	ZZ	LARRY K. TROUT & JOANNE TROUT	19-30A-71	0.057
F	EARL V. RUSH, JR. & TAMMY S. RUSH	19-29-19.4	12.355	AAA	EARL F. HUFFMAN, JR. & STEPHEN V. HIXENBAUGH	19-30A-72	0.052
G	LINDA PERKINS	19-29-18	6.62	BBB	EARL F. HUFFMAN, JR. & STEPHEN V. HIXENBAUGH	19-30A-73	0.057
H	ROBERT L. HARR & DORIS G. HARR, TRUSTEES	19-30A-22	0.057	CCC	ROBERT L. HARR & DORIS G. HARR, TRUSTEES	19-30A-74	0.057
I	ROBERT L. HARR & DORIS G. HARR, TRUSTEES	19-30A-21	0.057	DDD	ROBERT L. HARR & DORIS G. HARR, TRUSTEES	19-30A-75	0.052
J	ROBERT L. HARR & DORIS G. HARR, TRUSTEES	19-30A-20	0.057	EEE	ROBERT L. HARR & DORIS G. HARR, TRUSTEES	19-30A-76	0.052
K	ROBERT L. HARR & DORIS G. HARR, TRUSTEES	19-30A-19	0.057	FFF	ROBERT L. HARR & DORIS G. HARR, TRUSTEES	19-30A-77	0.046
L	ROBERT L. HARR & DORIS G. HARR, TRUSTEES	19-30A-18	0.057	GGG	ANITA C. PRIEST	19-29-19	12.355
M	ROBERT L. HARR & DORIS G. HARR, TRUSTEES	19-30A-17	0.057	HHH	JOHN R. MERRIFIELD & CHRISTIE G. MERRIFIELD	19-30-1.1	25.544
N	NANCY C. WELCH & MELINDA J. BRAGG	19-30A-16	0.057	III	CHARLES B. HULDERMAN & RACHEL A. HULDERMAN	19-30-16.1	30.5
O	NANCY C. WELCH & MELINDA J. BRAGG	19-30A-15	0.057	JJJ	LEO L. MORRIS	19-31-3.1	8.945
P	NANCY C. WELCH & MELINDA J. BRAGG	19-30A-14	0.057	KKK	WILLIAM R. LAYMAN & DEBORAH J. LAYMAN	19-31-15.1	2.933
Q	ROBERT L. HARR & DORIS G. HARR, TRUSTEES	19-30A-13	0.057	LLL	WILLIAM R. LAYMAN & DEBORAH J. LAYMAN	19-31-15.2	2.933
R	THOMAS G. EVERLY & CINDY L. EVERLY	19-30A-12	0.057	MMM	JENNIFER L. COTTRELL	19-31-15.3	2.933
S	THOMAS G. EVERLY & CINDY L. EVERLY	19-30A-11	0.057	NNN	JENNIFER L. COTTRELL	19-31-15.4	2.933
T	THOMAS G. EVERLY & CINDY L. EVERLY	19-30A-10	0.057	OOO	LUTHER HUFFMAN C/O JAMES HUFFMAN	19-31-14	0.50
U	CHRISTOPHER L. EDDY & TAMMY R. EDDY	19-30A-09	0.057	PPP	ELIZABETH A. RAMSEY	19-31-12.2	0.21
V	CHRISTOPHER L. EDDY & TAMMY R. EDDY	19-30A-08	0.057	QQQ	LEO E. COTTRELL & NANCY A. COTTRELL	19-31-13.1	1.90
W	ROBERT R. CLARK & PAUL R.W. CLARK	19-30A-07	0.057	RRR	CARL M. RUSH & SUE RUSH	19-31-16.1	1.15
X	ROBERT R. CLARK & ARMELLA J.F. CLARK	19-30A-6	0.057	SSS	DONALD HAYHURST, JANE HAYHURST, PAUL HAYHURST & EDITH HAYHURST	19-31-12.3	6.00
Y	ROGER A. SANDERS & BETTY M. SANDERS	19-30A-03	0.057	TTT	HENRY HUFFMAN	19-31-12	26.13
Z	ROGER A. SANDERS & BETTY M. SANDERS	19-30A-04	0.057	UUU	BARBARA E. HUFFMAN & KENNETH HUFFMAN	19-30-16.6	26.91
AA	ROBERT W. BENSON & BOBBI J. BENSON	19-30A-79	0.14	VVV	KENNETH HUFFMAN, JR.	19-30-16.1B	0.58
BB	WAYNE SANDERS & MYRTLE SANDERS	19-30A-01	0.044	WWW	STEPHEN HIXENBAUGH, SR. & CONNIE HIXENBAUGH	19-30-16.11	1.00
CC	ROBERT W. BENSON & BOBBI J. BENSON	19-30A-02	0.044	XXX	STEVEN A. RUSH & CONNIE C. RUSH	19-30-16.13	7.08
DD	JAMES R. HUMPHREY & DEANNA F. CLARK	19-30A-39	0.04	YYY	JASON L. RUSH	19-30-16.29	7.70
EE	ROBERT R. CLARK & ARMELLA J.F. CLARK	19-30A-38	0.052	ZZZ	RUSSELL RUSH & KATHARINA E. RUSH	19-30-16.12	3.47
FF	ROBERT R. CLARK & PAUL R.W. CLARK	19-30A-37	0.057	AAAA	RUSSELL RUSH & KATHARINA E. RUSH	19-30-16.19	3.47
GG	CHRISTOPHER L. EDDY & TAMMY R. EDDY	19-30A-36	0.057	BBBB	GARY R. BIDDLE, SR. & WILMA J. BIDDLE	19-30-16.22	8.31
HH	CHRISTOPHER L. EDDY & TAMMY R. EDDY	19-30A-35	0.057	CCCC	WILMA BIDDLE & GARY BIDDLE, SR.	19-30-16	11.52
II	THOMAS G. EVERLY & CINDY L. EVERLY	19-30A-34	0.057	DDDD	GARY R. BIDDLE, SR. & WILMA J. BIDDLE	19-30-15	3.42
JJ	BETTY PIER	19-30A-40	0.049	EEEE	CHRISTOPHER T. SHAFFER & DIANE M. SHAFFER	19-30-14.1	20.36
KK	ROBERT L. BENSON	19-30A-41	0.077	FFFF	HAROLD E. LANGLEY & ELEANOR E. LANGLEY & DEBORAH K. LANGLEY	19-30-11	28.50
LL	ROBERT L. BENSON & ETHEL L. BENSON	19-30A-67	0.056	GGGG	ALBERT L. LANGLEY & ANNA M. LANGLEY, C/O A. LEE LANGLEY III	19-30-05	23.60
MM	RONALD E. YOUNG & DOUGLAS A. YOUNG	19-30A-66	0.057	HHHH	EDWIN D. BUNNER & SANDRA BUNNER	19-30-04	20.00
NN	SHARON A. SYMENSKI	19-30A-65	0.057	IIII	SETH A. KLINE	19-30-03	10.00
OO	RICHARD LESSON	19-30A-64	0.057	JJJJ	ROBERT F. DONALDSON & MICHELE DONALDSON	19-28-6.2	1.301
PP	RICHARD LESSON	19-30A-63	0.051	KKKK	SALLY A. DONALDSON	19-28-6.1	6.199
QQ	KIMBERLY WELLS	19-30A-62	0.057	LLLL	EDWIN D. BUNNER & LANA J. BUNNER	19-28-06	12.50
RR	KIMBERLY WELLS	19-30A-61	0.057				
SS	MARJORIE W. CASSELL & DAVID B. CASSELL	19-30A-60	0.057				
TT	FRANCINE R. WILLIAMS	19-30A-59	0.057				
UU	WINFORD C. MCHENRY & DONNA J. MCHENRY	19-30A-58	0.057				

09/22/2017

REVISIONS:	COMPANY:	 	
	OPERATOR'S	EDWIN BUNNER MRN	
	WELL #:	5H	
	DISTRICT:	COUNTY:	STATE:
	WINFIELD	MARION	WV
			DATE: 07-05-2017
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 2