



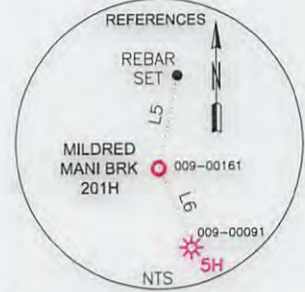
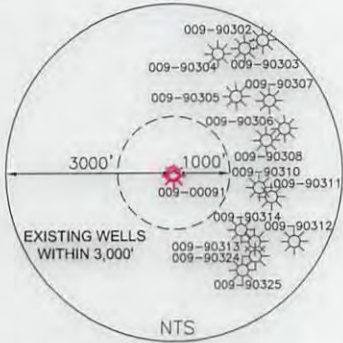
320 O'Bryan Lane • Van Buren, AR 72956
Office: 479.474.7916 • Fax: 479.474.2450
Surveying • handa-inc.com

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 89°04'17" E	1450.71'	SHL TO LANDMARK	FOUND IRON PIPE
L2	S 47°56'26" E	995.76'	SHL TO LANDMARK	FOUND IRON PIPE
L3	S 74°14'35" W	2132.46'	SHL TO LPL	
L4	N 21°23'41" W	6636.61'	LPL TO BHL	
L5	S 23°02'35" E	24.86'	SHL TO REF. PNT.	1/2"Ø REBAR SET
L6	S 23°20'24" E	24.51'	SHL TO REF. PNT.	MILDRED MANI BRK 5H WELL HEAD 009-00091

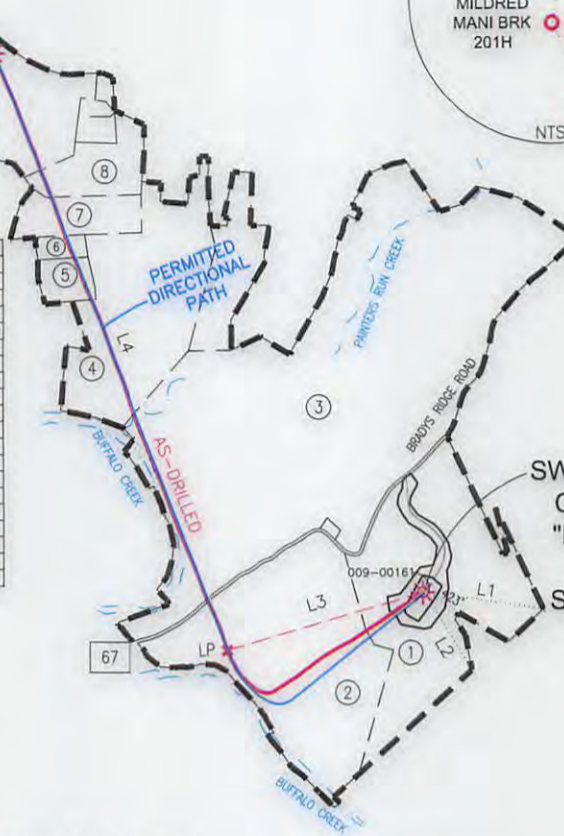
Latitude: 40°17'30"

Longitude: 80°35'00"

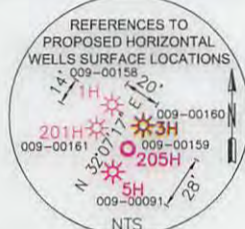
GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT



TRACT	SURFACE OWNER (S) ROYALTY OWNER (R)	TAX PARCEL	ACRES	LEASE NUMBER
1	ERIC PHILIP BAUER (S/R)	B27-26	95.00	1-329350-002
1	MILDRED MANI (S/R)	B27-26	95.00	1-324207-001
1	MILES BAUER (R)	B27-26	95.00	1-324207-002
2	STARVAGGI INDUSTRIES (S)	B27-27	62.61	
2	CORNELIA JEAN WAUGH (R)	B27-27	62.61	47-000527-000
3	ERIC PHILIP BAUER (S/R)	B27-21	204.94	1-329350-002
3	MILDRED MANI (S/R)	B27-21	204.94	1-324207-001
3	MILES BAUER (R)	B27-21	204.94	1-324207-002
4	DELIA DAVIS BALLOG (S/R)	B27G-15	75.84	47-000554-001
4	THOMAS A. LOVE (S/R)	B27G-15	75.84	47-000554-002
5	BONNIE LEE LUKACENA ET AL (S)	B27L-24	9.22	
5	SHANNON SCHUETZNER (R)	B27L-24	9.22	1-382416-001
5	BONNIE LEE LUKACENA & JOHN N. LUKACENA (R)	B27L-24	9.22	1-382416-002
5	SHEY SCHUETZNER (R)	B27L-24	9.22	1-382416-003
5	SHAYNE SCHUETZNER (R)	B27L-24	9.22	1-382416-004
5	SHELBY CARRELL (R)	B27L-24	9.22	1-382416-005
6	JAMES HENRY SCHAEFFER, JR (S/R)	B27L-23	3.30	1-358179-000
7	DAVID M. HUBBARD & NANCY L. HUBBARD (S/R)	B27G-60	15.25	1-325792-000
8	DAVID M. HUBBARD & NANCY L. HUBBARD (S/R)	B27G-64	13.14	1-329395-000
9	SAMUEL H. HUBBARD & SHELBA HUBBARD (S/R)	B27-2	43.74	1-325799-000



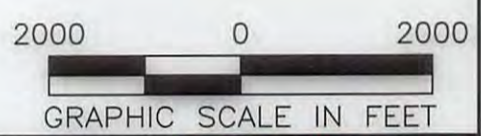
SWN PRODUCTION COMPANY, LLC
"MILDRED MANI BRK 201H"
SURFACE HOLE
ELEV. 1073.0'



SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,456,024.670 EASTING: 534,899.662
LANDING POINT (LP): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,455,848.165 EASTING: 534,274.111
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,457,731.669 EASTING: 533,536.176

- 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 PAD.
 - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
 - NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 1000 FEET OF THE LIMITS OF DISTURBANCE.
 - NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

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. 2315 *[Signature]*

(+) 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 MILDRED MANI BRK OPERATOR'S WELL #: 201H API WELL #: 47 09 00161 STATE COUNTY PERMIT
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WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: BUFFALO CREEK ELEVATION: 1073.0'

DISTRICT: BUFFALO COUNTY: BROOKE QUADRANGLE: STUEBENVILLE EAST WV.

SURFACE OWNER: MILDRED MANI & ERIK PHILIP BAUER ACREAGE: 95.00±

OIL & GAS ROYALTY OWNER: MILDRED MANI & ERIK PHILIP BAUER ACREAGE: 95.00±

DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) AS-DRILLED

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,675' TVD 13,172' 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

LEGEND:	REVISIONS:	DATE: 10-21-2015
<ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊗ EXISTING / PRODUCING WELLHEAD ⊗ ABANDONED WELL ⊗ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR 	<ul style="list-style-type: none"> --- LEASE BOUNDARY --- AS-DRILLED PATH --- PERMITTED DIRECTIONAL PATH --- ABANDONED PATH 	<ul style="list-style-type: none"> △ REVISED TVD & TMD, 07-22-2015 △ REVISED SHL, LP, TVD, TMD & BHL FOR ASDRILLED DIRECTIONAL PATH, 01-22-2016 △ REVISED ASDRILLED & PERMITTED DIRECTIONAL PATH COLOR, ADDED LP COORDINATES, 01-29-2016
		DRAWN BY: J. HARNESS SCALE: 1" = 2000' DRAWING NO: 59393 WELL LOCATION PLAT