



320 O'Bryan Lane • Van Buren, AR 72956
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Surveying • handa-inc.com

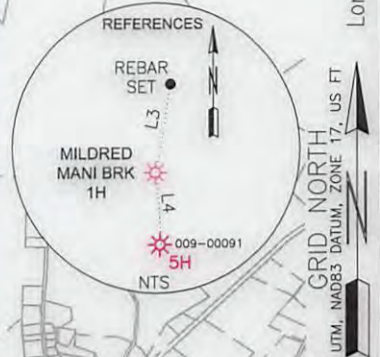
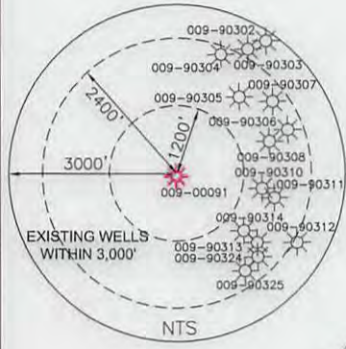
LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 88°37'00" E	1442.87'	SHL TO LANDMARK	FOUND IRON PIPE
L2	S 47°10'13" E	997.48'	SHL TO LANDMARK	FOUND IRON PIPE
L3	N 09°13'57" E	156.22'	SHL TO REF. PNT.	1/2" Ø REBAR SET
L4	S 03°47'37" E	34.27'	SHL TO REF. PNT.	MILDRED MANI BRK 5H WELL HEAD 009-00091
LINE	CHORD BEARING	CHORD DIST.	CURVE LENGTH	DESCRIPTION
L5	S 80°43'44" W	1235.82'		SHL TO LP
L6	N 22°48'29" W	5899.09'		LP TO BHL

Latitude: 40°17'30"

Longitude: 80°35'00"

NOTES ON SURVEY

- COORDINATE 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/OR FIELD LOCATIONS.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO OCCUPIED DWELLINGS AND AGRICULTURE BUILDINGS GREATER THAN 2500 SQ. FT. 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, OR RESERVOIRS WITHIN 100 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.

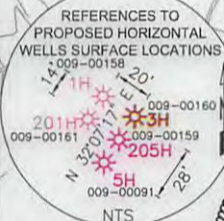


TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	ERIK PHILIP BAUER (S/R) MILDRED MANI (S/R) MILES BAUER (R)	B27-26	95.00
2	STARVAGGI INDUSTRIES (S) CORNELIA JEAN WAUGH (R)	B27-27	62.61
3	ERIK PHILIP BAUER (S/R) MILDRED MANI (S/R) MILES BAUER (R)	B27-21	204.94
4	JAMES L WEAVER (S/R) DAVID E SMITH (S/R)	B27G-40	18.60
5	DELIA DAVIS BALLOG (S/R) THOMAS A LOVE (S/R)	B27G-15	75.84
6	DAVID M. HUBBARD & NANCY L. HUBBARD (S/R)	B27G-60	15.25
7	DAVID M. HUBBARD & NANCY L. HUBBARD (S/R)	B27G-64	13.141
8	JOHN HUBBARD (S/R)	B27G-62	2.678
9	MARIANNA HUBBARD DOUGLAS LIVING TRUST (S/R)	B27G-63	1.228
10	SAMUAL H. HUBBARD & SHELBA HUBBARD (S/R)	B27-2	43.74

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,456,028.124
EASTING: 534,901.935

LANDING POINT (LP):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,455,967.438
EASTING: 534,530.176

BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,457,624.891
EASTING: 533,833.173



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

(+) 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 #: 1H
API WELL #: 47 09 00158
STATE COUNTY PERMIT

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 DEPTH: 5,681' TVD 12,051' IMD

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:
 PROPOSED SURFACE HOLE / BOTTOM HOLE
 EXISTING / PRODUCING WELLHEAD
 ABANDONED WELL
 PLUGGED & ABANDONED WELL
 CUT CONDUCTOR
 LEASE BOUNDARY
 AS-DRILLED PATH
 PERMITTED
 DIRECTIONAL PATH
 ABANDONED PATH

REVISIONS:
 Δ REVISED SHL, LP, & BHL FOR ASDRILLED
 DIRECTIONAL PATH, 11-04-2015
 Δ REVISED ASDRILLED & PERMITTED DIRECTIONAL PATH
 COLOR, ADDED LP COORDINATES. 01-29-2016

DATE: 10-21-2015
 DRAWN BY: J. HARNESS
 SCALE: 1" = 2000'
 DRAWING NO: 59391
 WELL LOCATION PLAT