



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

| LINE | DESCRIPTION | DISTANCE | DESCRIPTION | MONUMENT |
|------|---------------|----------|------------------|------------|
| L1 | N 73°30'37" W | 1306.84' | SHL TO LANDMARK | 5/8" REBAR |
| L2 | S 47°00'46" W | 846.43' | SHL TO LANDMARK | 5/8" REBAR |
| L3 | S 82°10'37" W | 1363.05' | SHL TO LPL | |
| L4 | N 45°18'05" W | 6707.28' | TPL TO BHL | |
| L5 | N 67°46'20" E | 311.10' | SHL TO REF. PNT. | 5/8" REBAR |
| L6 | S 64°33'26" W | 227.10' | SHL TO REF. PNT. | 5/8" REBAR |

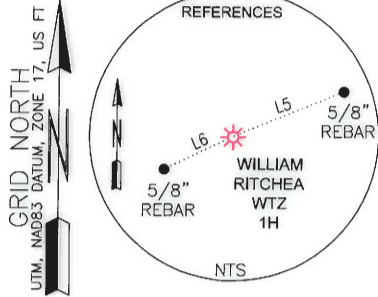
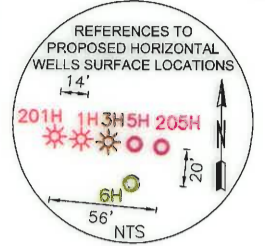
Latitude: 39°42'30"

Longitude: 80°37'30"

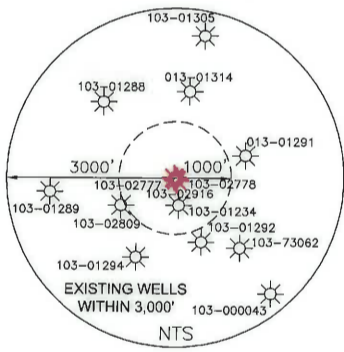
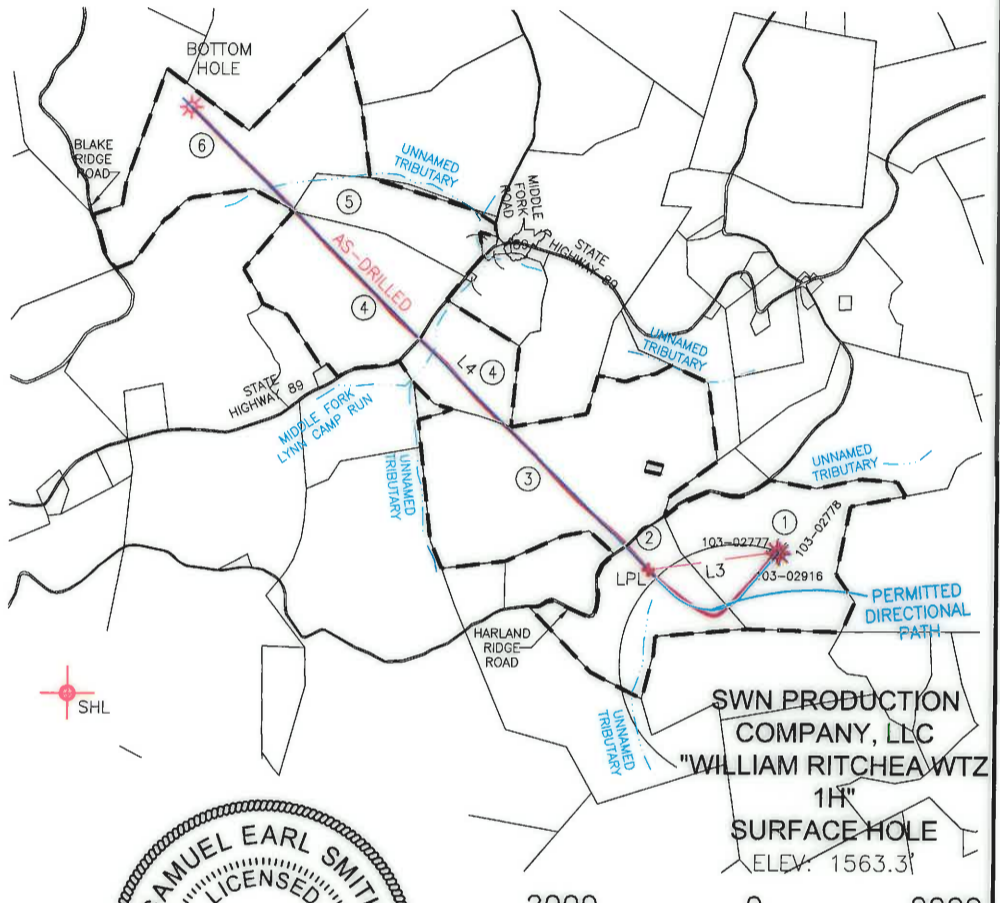
NOTES ON SURVEY

- 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 CENTER 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.

| TRACT | SURFACE OWNER (S) / ROYALTY OWNER (R) | TAX PARCEL | ACRES | LEASE NUMBER |
|-------|--|------------|--------|--|
| 1 | WILLIAM D RITCHEA & SHIRLEY E RITCHEA (S/R) | 12-15-21 | 62.00 | WV-0000113-000 |
| 2 | WILLIAM R PITOSCIA (S) TASA CORPORATION (R) | 12-14-27 | 57.00 | WV-0000109-001 WV-0000109-002 WV-0000109-003 |
| 3 | WILLIAM R PITOSCIA (S) TASA CORPORATION (R) | 12-14-16 | 104.01 | WV-0000109-001 WV-0000109-002 WV-0000109-003 |
| 4 | MICHAEL E LASURE & VELVA C LASURE (S) RAY C HERMAN & DAIL A HERMAN (R) | 12-14-6 | 22.84 | 1-254831-000 |
| 4 | MICHAEL E LASURE & VELVA C LASURE (S) RAY C HERMAN & ROSE M HERMAN (R) DAIL A HERMAN (R) | 12-14-6 | 52.89 | WV-0000128-000 |
| 5 | WAYNE HUGGINS & SANDRA M HUGGINS (S) F E BUCHNER (R), WILLARD HERMAN (R), DALE A HERMAN (R), RAY C HERMAN (R), DORA HALL PALMER (R), & FRANKIE E WOODSTUFF & ALBERT WOODSTUFF (R) | 12-9-46.1 | 25.00 | 1-264519-000 |
| 6 | NORMAN E KEENEY JR & NANCY M KEENEY (S) OTIS SIMMONS & MABEL SIMMONS (R), ETHEL RAMSEY & ELMER RAMSEY (R), & HAROLD SIMMONS & ROXIE SIMMONS (R) | 12-9-45 | 100.00 | 1-254812-000 |



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| SURFACE HOLE LOCATION (SHL) |
| UTM (NAD83, ZONE 17, METERS): NORTHING: 4,391,142.769 EASTING: 529,214.238 |
| LANDING POINT LOCATION (LPL) |
| UTM (NAD83, ZONE 17, METERS): NORTHING: 4,391,085.168 EASTING: 528,802.986 |
| BOTTOM HOLE LOCATION (BHL) |
| UTM (NAD83, ZONE 17, METERS): NORTHING: 4,392,535.626 EASTING: 527,337.794 |



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.



COMPANY: **SWN** Production Company, LLC

P.S. 1333 *Samuel Smith* 08-02-16

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|--|---|---|--|
| | (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS | MINIMUM DEGREE OF ACCURACY: 1/200 | WILLIAM RITCHEA WTZ |
| | WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034 | PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT) | OPERATOR'S WELL #: 1H API WELL #: 47 103 03128 STATE COUNTY PERMIT |

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

WATERSHED: LITTLE FISHING CREEK ELEVATION: 1563.3'

DISTRICT: PROCTOR COUNTY: WETZEL QUADRANGLE: WILEYVILLE, WV

SURFACE OWNER: WILLIAM D & SHIRLEY E RITCHEA ACREAGE: ±62.00

OIL & GAS ROYALTY OWNER: WILLIAM D & SHIRLEY E RITCHEA ACREAGE: ±62.00

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: 7,552' IMD 14953

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

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|---|--|---|
| LEGEND: | REVISIONS: | DATE: 07-20-2016 |
| <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 | DRAWN BY: S SMITH SCALE: 1" = 2000' DRAWING NO: 59480 WELL LOCATION PLAT |