

JACKSON SURVEYING INC.
 P.O. Box 1480
 677 W. Main St.
 Clarksburg, WV 26302
 304-623-5851

| LINE | BEARING | DISTANCE | DESCRIPTION |
|------|---------------|-----------|---------------------------|
| L1 | S 64°25'30" W | 736.89' | SHL TO CNR FP |
| L2 | N 26°00'43" E | 1,720.89' | SHL TO ROOFBOLT |
| L3 | S 12°49'45" W | 1,102.92' | SHL TO LPL |
| L4 | S 51°41'21" W | 480.85' | SHL TO 12" TREE OF HEAVEN |
| L5 | S 49°04'37" E | 177.06' | SHL TO 18" LOCUST |
| L6 | N 55°22'28" W | 361.70' | SHL TO WATER RESERVOIR |

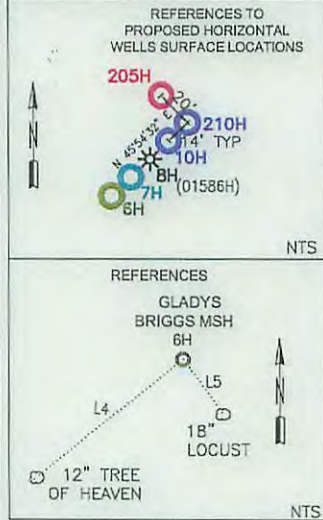
| TRACT | SURFACE OWNER (S) / ROYALTY OWNER (R) | TAX PARCEL | ACRES |
|-------|---|--------------------|--------|
| 1 | JAMES RODNEY BRIGGS, ROGER JACOB BRIGGS & JOHN DEAN BRIGGS (S) / DAVID BONAR, HARRISON J. BRIGGS, & GLADYS R. BRIGGS (R) | 7-16-02 | 121.43 |
| 2 | MASON DIXON FARMS LLC (S) / W. H. LOPER & BERTIE LOPER (R) | 7-16-06 | 69.72 |
| 3 | JACK J. BRIGGS (S) / T.D. EMERY & SADIE B. EMERY (R) | 7-16-05 | 37.88 |
| 4 | MASON DIXON FARMS LLC (S) / JANET L. POCHAN, PATRICIA PHILLIPS & EDWARD S. PHILLIPS, MARY IRENE CRUMLEY DODD, A/K/A IRENE CRUMLEY, ARTHUR LAVERNE GRAY, C. DWAIN GRAY AND VIRGINIA W. GRAY, CARL E. SCHONER JR., CLARK RICHARD GRAY AND LILLIAN GRAY, MARGARET A. GOETZ, F/K/A MARGARET A. GRAY, MERLE M. HINKLE (LIFE ESTATE) BY HER ATTORNEY-IN-FACT, WILLIAM F. HINKLE AND WILLIAM F. HINKLE (REMAINDER), MARILYN J. MINCKS AND EUGENE F. MINCKS, DAVY LOU ASHTON, JOSEPH ASHTON, HAYHURST COMPANY, PAUL DOUGLAS GRAY AND SALLY S. GRAY, JOHN LEWIS GRAY AND JUDY GRAY (R) | 7-16-07 | 64.73 |
| 5 | COLUMBIA GAS TRANSMISSION CORP. (S) / WILMA M. GATTEN A/K/A WILMA G. KESTNER BY HER ATTORNEY-IN-FACT MARGARET A. FALLOVA (R) | 7-19-10 7-16-08 | 55.15 |
| 6 | JOHN DEAN BRIGGS & PATTY KAY BRIGGS (S) / W.H. LOPER & BERTIE LOPER (R) | 7-16-04 | 81.25 |
| 7 | EDWARD SILCOX (S) / D.E. BURGE & SARAH BURGE A/K/A SARAH L. BURGE (R) | 7-16-09 | 11.21 |
| 8 | ROBERT M. SCHIFFER (S) / D.E. BURGE & SARAH BURGE A/K/A SARAH L. BURGE (R) | 7-16-19 | 0.22 |
| 9 | ROBERT M. SCHIFFER & SANDRA L. SCHIFFER (S) / D.E. BURGE & SARAH BURGE A/K/A SARAH L. BURGE (R) | 7-16-20 | 0.79 |
| 10 | WILLIAM ZERVOS JR. (S) / THE TRUST OF HAROLD L. YEATER A/K/A THE LIVING TRUST OF HAROLD L. YEATER DATED 1/29/1990 BY STEPHEN L. YEATER AND DEBORAH Y. SHAW ACTING AS CO-TRUSTEES, RICHARD LEE PARRISH AND TERI LEE PARRISH, ALLEN L. YEATER, RACHEL A. YEATER, KAREN Y. JONES, CHESTNUT HOLDINGS INC., CHEASAPEAKE APPALACHIA LLC (R) | 7-16-21 | 3.00 |

SURFACE HOLE LOCATION (SHL):
 UTM (NAD83, ZONE 17, METERS):
 NORTHING: 4,401,970.552
 EASTING: 532,895.802

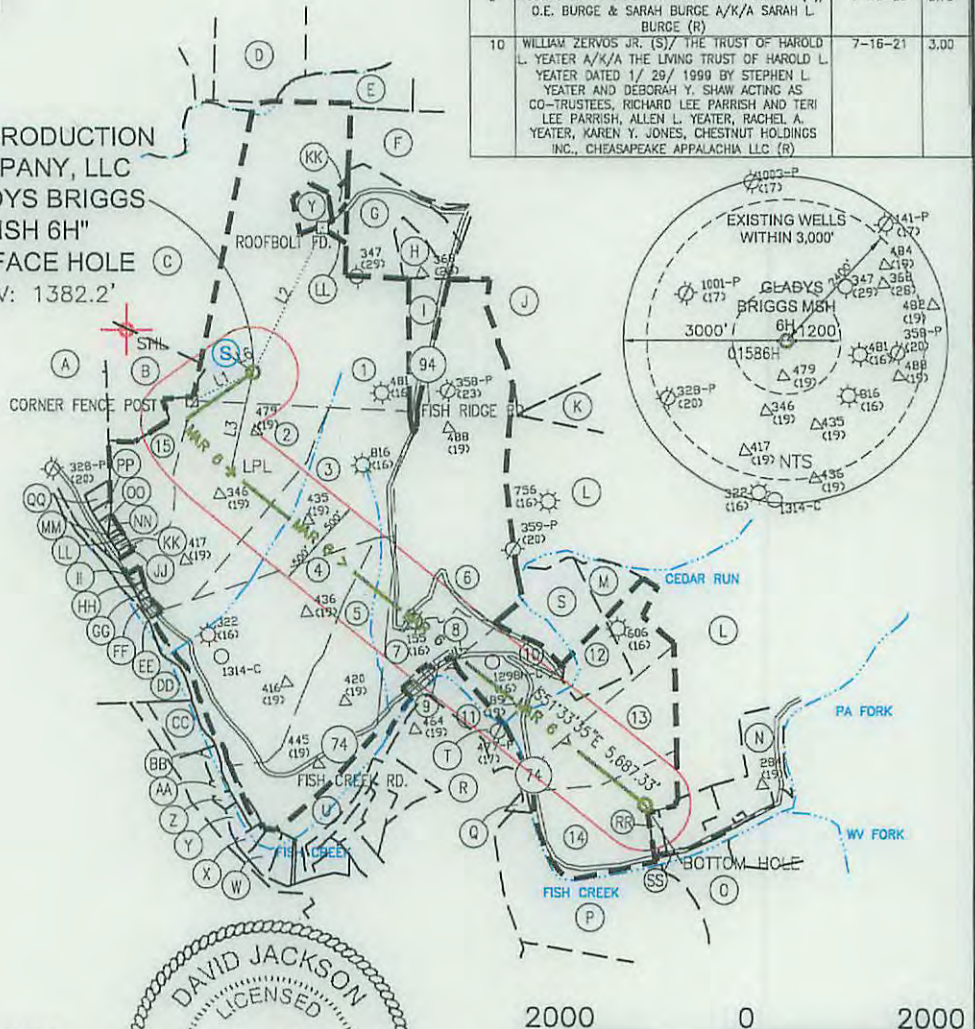
LANDING POINT LOCATION (LPL):
 UTM (NAD83, ZONE 17, METERS):
 NORTHING: 4,401,642.773
 EASTING: 532,821.156

BOTTOM HOLE LOCATION (BHL):
 UTM (NAD83, ZONE 17, METERS):
 NORTHING: 4,400,565.056
 EASTING: 534,178.933

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



SWN PRODUCTION COMPANY, LLC
"GLADYS BRIGGS MSH 6H"
SURFACE HOLE
 ELEV: 1382.2'



- 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 100 FEET OF THE LIMITS OF DISTURBANCE.
 - NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
 - ALL WELLS WITHIN 500' OF THE HORIZONTAL LEG ARE SHOWN ON THIS PLAT BASED UPON INFORMATION TAKEN FROM DEP MAPPING AND AERIAL PHOTOS

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

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| (+) 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 OPERATOR'S WELL #: 6H API WELL #: 47 051 0178846A STATE COUNTY PERMIT |
| | WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> | WATERSHED: FISH CREEK OF UPPER OHIO RIVER 2 DISTRICT: LIBERTY COUNTY: MARSHALL SURFACE OWNER: JAMES RODNEY BRIGGS, ROGER JACOB BRIGGS & JOHN DEAN BRIGGS OIL & GAS ROYALTY OWNER: DAVID BONAR; HARRISON J. BRIGGS & GLADYS R. BRIGGS |

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

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

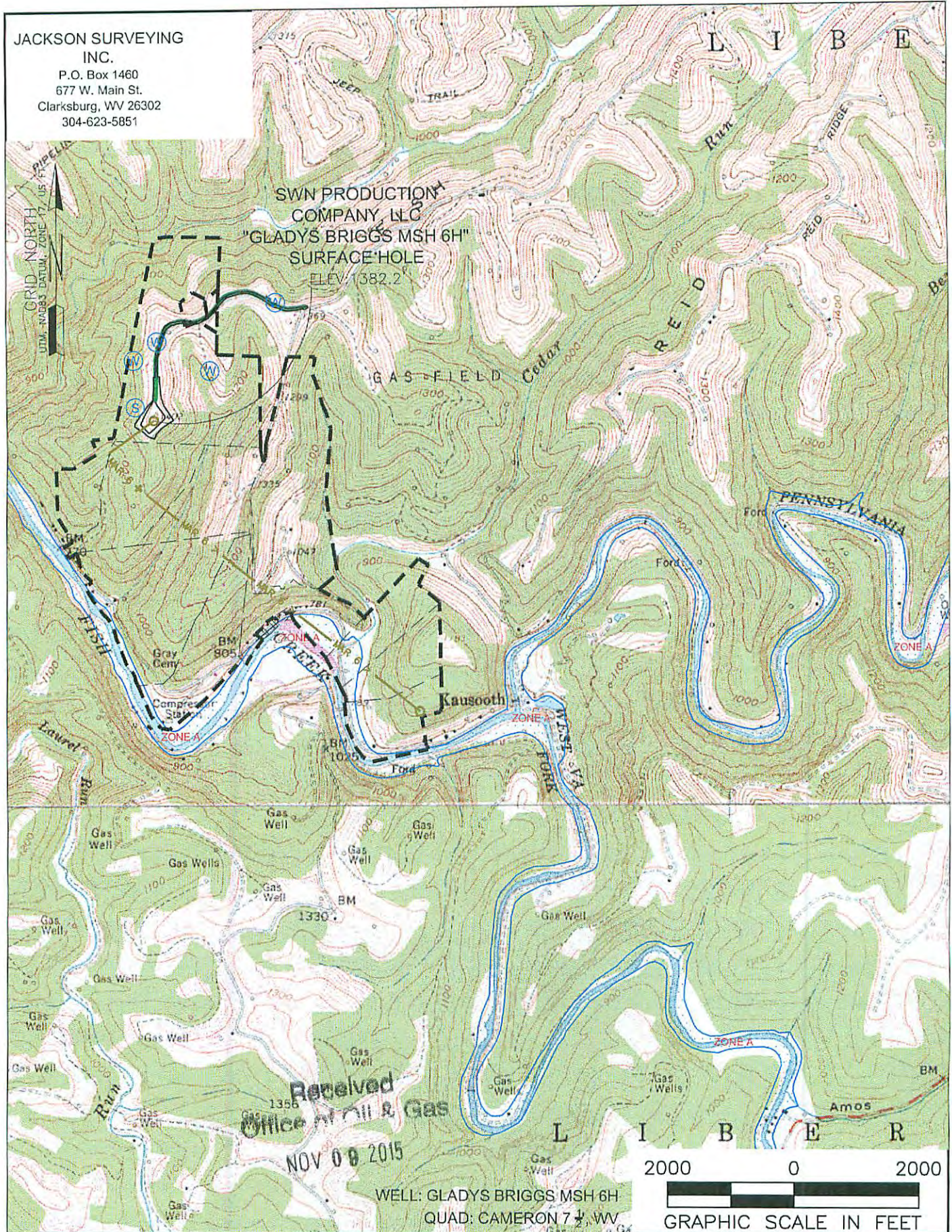
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,161' TWD 13,766' TWD

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: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD ⊗ ABANDONED WELL ⊗ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR | --- LEASE BOUNDARY --- 500' DHP BUFFER --- MAR 6 --- MARCELLUS DUFF --- ABANDONED PATH | REVISIONS: △ 11-02-2015 BOTTOM HOLE ADJUSTED. DATE: 11-05-2015 DRAWN BY: N. MANO SCALE: 1" = 2000' DRAWING NO: WELL LOCATION PLAT |
|---|---|--|

47-051-01788

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



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|--|--|---|--|---|--|
| NAME AND DISTANCE TO THE NEAREST STREAM: FISH CREEK IS LOCATED ±0.49 MILES SW OF THE CENTER OF THE DRILL PAD. | | STREAM CROSSING COORDINATES (NAD 83): NO NEW CROSSINGS. | | COMPANY: | |
| WELL RESTRICTIONS: WELL PAD, LOD, & E & S CONTROL FEATURES TO PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND: >100 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO NATURALLY PRODUCING TROUT STREAM: >300 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY: >1000 FEET WELL SHL TO EXISTING WATER WELL OR DEVELOPED SPRING: >250 FEET CENTER OF PAD TO OCCUPIED DWELLING STRUCTURE: >625 FEET CENTER OF PAD TO AGRICULTURAL BUILDINGS LARGER THAN 2500 SQ FT: >625 FEET | | OPERATOR'S GLADYS BRIGGS MSH | | WELL #: 6H | |
| FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF MARSHALL COUNTY, WEST VIRGINIA; MAP NUMBER 54051C0200 E; EFFECTIVE DATE: SEPTEMBER 25, 2009. | | LOCATION: LIBERTY DISTRICT, MARSHALL COUNTY, WEST VIRGINIA | | SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 39.767027° LONGITUDE: -80.615924° | |
| LEGEND: | | BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 39.754313° LONGITUDE: -80.601016 | | REVISIONS: Δ 11-02-2015 BOTTOM HOLE ADJUSTED. | |
| | | DATE: 11-05-2015 | | DRAWN BY: N. MANO SCALE: 1" = 2000' DRAWING NO: TOPOGRAPHIC MAP | |

01/08/2016