

TEN HIGH 1S LEASE
WELL 8HM
TUG HILL OPERATING

T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°47'30"

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)		
NAD'83 S.P.C.(FT)	N. 478,143.88	E. 1,636,794.50
NAD'83 GEO.	LAT-(N) 39.806762	LONG-(W) 80.680750
NAD'83 UTM (M)	N. 4,406,358.84	E. 527,327.77
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 478,376.0	E. 1,637,712.9
NAD'83 GEO.	LAT-(N) 39.807433	LONG-(W) 80.677492
NAD'83 UTM (M)	N. 4,406,434.2	E. 527,606.4
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 469,504.7	E. 1,642,699.8
NAD'83 GEO.	LAT-(N) 39.783258	LONG-(W) 80.659335
NAD'83 UTM (M)	N. 4,403,756.9	E. 529,170.8

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"

B.H.

AS DRILLED COORDINATES
FOR WELL NO. 8HM

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LANDING POINT		
NAD'83 S.P.C.(FT)	N. 478,265.6	E. 1,637,848.9
NAD'83 GEO.	LAT-(N) 39.807135	LONG-(W) 80.677003
NAD'83 UTM (M)	N. 4,406,401.3	E. 527,848.4
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 469,496.2	E. 1,642,687.5
NAD'83 GEO.	LAT-(N) 39.783234	LONG-(W) 80.659378
NAD'83 UTM (M)	N. 4,403,754.3	E. 529,167.1

T.H.

NOTES ON SURVEY

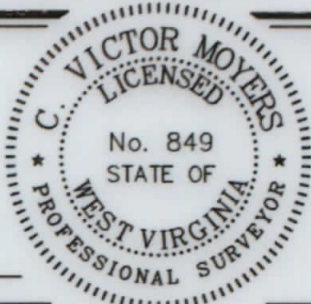
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS > 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'
- AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
- PLAT UPDATED TO SHOW AS-DRILLED PATH.



12 Vashon Drive | P.O. Box 150 | Glenville, WV 26034 | 304-462-3634
1412 Kanawha Boulevard, East | Charleston, WV 25304 | 304-346-3952
254 East Beckley Bypass | Beckley, WV 25801 | 304-255-5296
slsrv.com

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 THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 849 *C. Victor Moyers*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE MARCH 24, 2020
REVISED _____, 20____
OPERATORS WELL NO. TEN HIGH 1S-8HM
API WELL NO. 47 - 051 - 1975
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1" = 2500' FILE NO. 8655P8HMAD.dwg
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS



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

LOCATION: GROUND = 1,320.20' PROPOSED = 1,310.06' WATERSHED MIDDLE BOWMAN RUN OF FISH CREEK (HUC 10)
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER LAWRENCE & SHIRLEY CONKLE ESTS ACREAGE 139.79±
ROYALTY OWNER ANDY PAUL & JACKIE KUHN, ET AL - WW-6A1 ACREAGE 139.79±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
ESTIMATED DEPTH TVD: 6,865' / TMD: 17,364'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 CHARLESTON, WV 25313

COUNTY NAME
PERMIT

**TEN HIGH 1S LEASE
WELL 8HM
TUG HILL OPERATING**

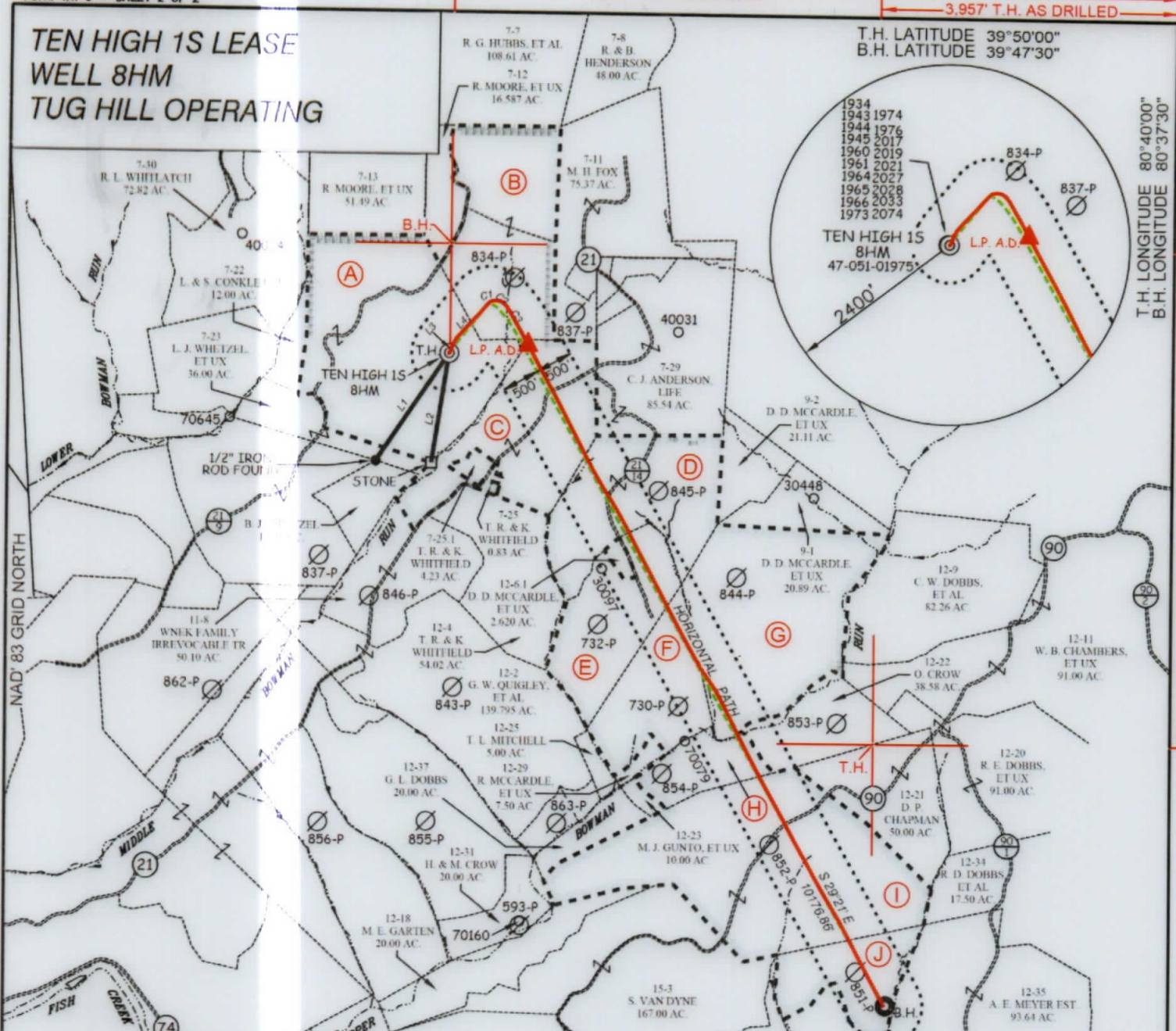
9.661' B.H. AS DRILLED

3.957' T.H. AS DRILLED

T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°47'30"

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"

3.072' B.H. AS DRILLED



TAG	SURFACE OWNER	PARCEL	ACRES
A	LAWRENCE & SHIRLEY COMBES ESTS	9-7-24	139.79
B	ROBERT G. & SCARLETT DOBBS	9-7-12.1	86.36
C	THOMAS R. & KIMBERLY WHITFIELD	9-7-25.2	76.40
D	DONALD DALE MCCARDLE ET UX	9-12-5	75.28
E	DONALD DALE MCCARDLE ET UX	9-12-6	53.38
F	DONALD DALE MCCARDLE ET UX	9-12-7	53.00
G	DONALD DALE MCCARDLE ET UX	9-12-8	117.85
H	EVERETT F. MOORE HUBBS ET UX	9-12-24	70.00
I	DAVID P. CHAPMAN ET UX	9-12-32	150.00
J	DAVID P. CHAPMAN ET UX	9-12-33	32.00

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	38.63'	43.38'	N 51°5' E	37.36'
C2	148.91'	297.14'	S 52°3' E	145.42'
C3	425.89'	1750.31'	S 52°2' E	424.64'

AS DRILLED COORDINATES FOR WELL NO. 8HM

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LEGEND

AS DRILLED ——— (Red line)

PROPOSED - - - - - (Green dashed line)

LINE	BEARING	DISTANCE
L1	S 34°00' W	1730.51'
L2	S 08°50' W	1475.13'
L3	N 31°08' E	106.20'
L4	N 39°28' E	724.85'

P.S. 849 *C. Victor Moyers*

SLS
FROM THE GROUND UP

12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 25854 | 62.5634
1412 Kanawha Boulevard, East | Charleston, WV 25330 | 46.3952
254 East Beckley Bypass | Beckley, WV 25801 | 31.296

slswv.com

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

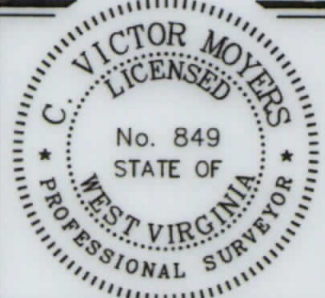
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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

LEGEND

LEASE LINE ———

SURFACE LINE ———

WELL LATERAL ———

OFFSET LINE ———

TIE LINE ———

CREEK ———

ROAD ———

COUNTY ROUTE ———

PROPOSED WELL ———

EXISTING WELL ———

PERMITTED WELL ———

TAX MAP-PARCEL 00-00

SURFACE OWNER (SEE TABLE) (A)

LEASE # (SEE WW-6A1)

SCALE 1" = 2000' FILE NO. 8655P8HMAD.dwg

DATE MARCH 24, 20 20

REVISED _____, 20 _____

OPERATORS WELL NO. TEN HIGH 1S-8HM

API WELL NO. 47 — 051 — 1975

NO. STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

WELL OPERATOR TUG HILL OPERATING, LLC ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107

DESIGNATED AGENT DIANNA STAMPER CT CORPORATION SYSTEM ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

COUNTY NAME PERMIT