

10,613' B.H. AS DRILLED

3,949' T.H. AS DRILLED

TEN HIGH 1S LEASE  
WELL 7HM  
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. 478,120.50	E. 1,636,801.64
NAD'83 GEO.	LAT-(N) 39.806699	LONG-(W) 80.680724
NAD'83 UTM (M)	N. 4,406,351.76	E. 527,330.06
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 478,010.7	E. 1,637,089.8
NAD'83 GEO.	LAT-(N) 39.806408	LONG-(W) 80.679693
NAD'83 UTM (M)	N. 4,406,319.8	E. 527,418.4
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 469,702.5	E. 1,641,731.9
NAD'83 GEO.	LAT-(N) 39.783767	LONG-(W) 80.662788
NAD'83 UTM (M)	N. 4,403,812.3	E. 528,874.9

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

B.H.

AS DRILLED COORDINATES  
FOR WELL NO. 7HM

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)		
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NAD'83 UTM (M)	N. 4,406,351.76	E. 527,330.06
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 477,838.0	E. 1,637,249.5
NAD'83 GEO.	LAT-(N) 39.805939	LONG-(W) 80.679116
NAD'83 UTM (M)	N. 4,406,268.0	E. 527,468.0
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 469,706.7	E. 1,641,738.9
NAD'83 GEO.	LAT-(N) 39.783779	LONG-(W) 80.662783
NAD'83 UTM (M)	N. 4,403,813.6	E. 528,877.0

T.H.

2,873' B.H. AS DRILLED  
9,702' T.H. AS DRILLED

NOTES ON SURVEY

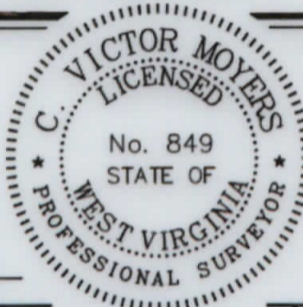
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS > 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPD MARK SCALE IS 1"=2000'
- AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
- PLAT UPDATED TO SHOW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



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26034 | 486.25634  
1412 Kanawha Boulevard, East | Charleston, WV 25304 | 346.3952  
254 East Beckley Bypass | Beckley, WV 25801 | 35.5298  
slswv.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, 20 20

REVISED \_\_\_\_\_, 20 \_\_\_\_\_

OPERATORS WELL NO. TEN HIGH 1S-7HM

API WELL NO. 47 - 051 - 1974  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 8655P7HMAD.dwg  
HORIZONTAL & VERTICAL CONTROL DETERMINED BY GPS (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 X LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_ IF "GAS" PRODUCTION X STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW X

LOCATION: GROUND = 1,315.70' 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 FALL & JACKIE KUHN, ET AL - WW-6A1 ACREAGE 139.79±

PROPOSED WORK:  
DRILL X CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE X 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: 16,649'

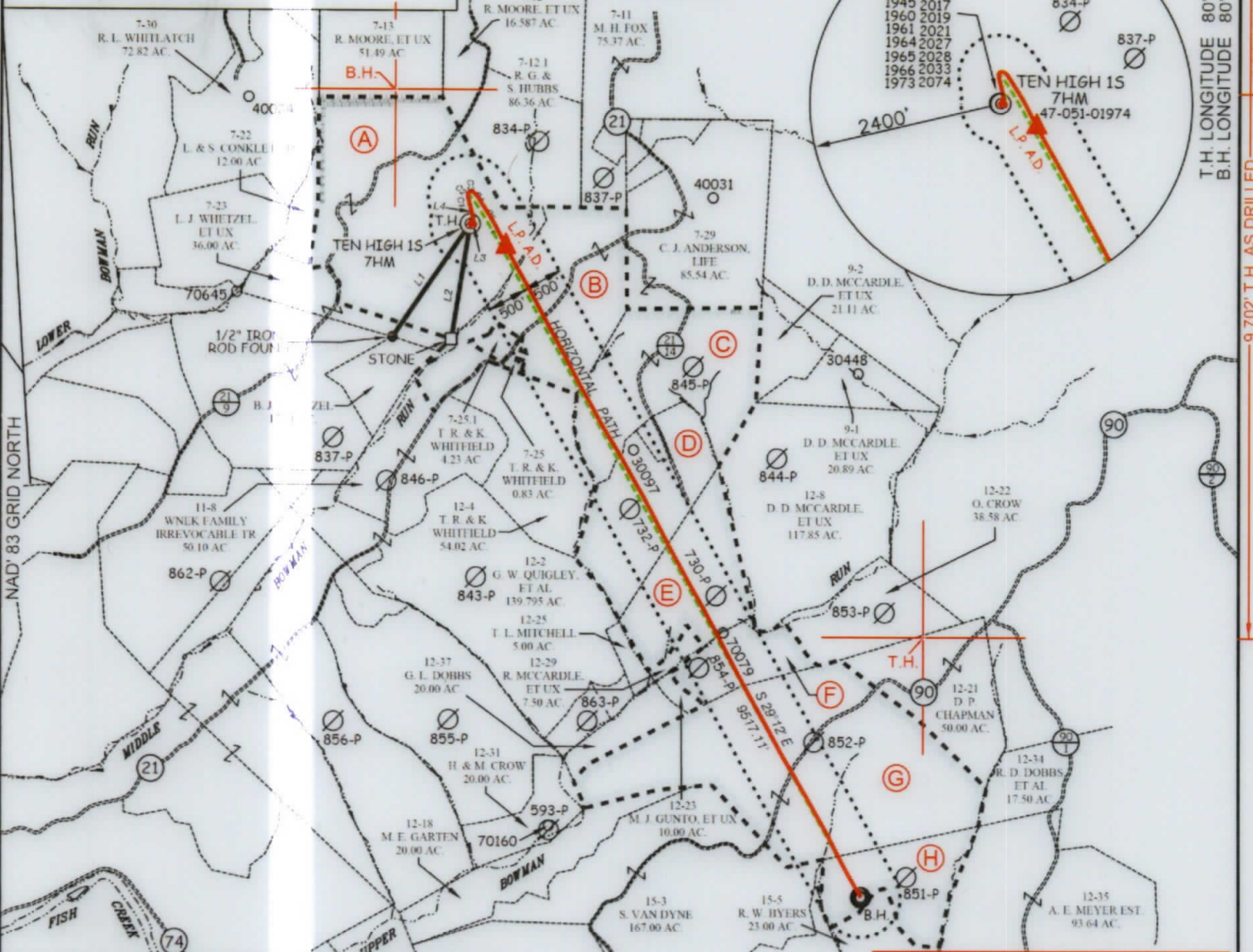
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER  
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS CT CORPORATION SYSTEM  
FORT WORTH, TX 76107 ADDRESS 5400 D BIG TYLER ROAD  
CHARLESTON, WV 25313

COUNTY NAME PERMIT

**TEN HIGH 1S LEASE  
WELL 7HM  
TUG HILL OPERATING**

LINE	BEARING	DISTANCE
L1	S 34°38' W	1715.22'
L2	S 09°15' W	1453.16'
L3	S 77°44' E	76.50'
L4	N 16°07' W	354.75'

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



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

**AS DRILLED COORDINATES FOR WELL NO. 7HM**

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CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	27.17'	136.56'	N 10°59' W	27.13'
C2	10.46'	9.47'	N 24°38' E	9.94'
C3	14.20'	25.69'	S 63°47' E	14.02'
C4	169.77'	902.92'	S 37°19' E	169.52'
C5	383.86'	5588.20'	S 30°59' E	383.78'



**LEGEND**

- AS DRILLED (Red solid line)
- PROPOSED (Green dashed line)

P.S. 849

*C. Victor Moyers*

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

**LEGEND**

- LEASE LINE (Dashed line)
- SURFACE LINE (Dotted line)
- WELL LATERAL (Dashed line)
- OFFSET LINE (Dotted line)
- TIE LINE (Solid line)
- CREEK (Line with arrows)
- ROAD (Line with double arrows)
- COUNTY ROUTE (Circle with number)
- PROPOSED WELL (Circle with cross)
- EXISTING WELL (Circle with dot)
- PERMITTED WELL (Circle with star)
- TAX MAP-PARCEL (Circle with number)
- SURFACE OWNER (SEE TABLE) (Circle with letter)
- LEASE # (SEE WW-6A1) (Circle with number)

SCALE 1" = 2000' FILE NO. 8655P7HMAD.dwg

DATE MARCH 24, 20 20

REVISED \_\_\_\_\_, 20 \_\_\_\_\_

OPERATORS WELL NO. TEN HIGH 1S-7HM

API WELL NO. 47 - 051 - 1974

NO. STATE COUNTY PERMIT

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

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

COUNTY NAME PERMIT