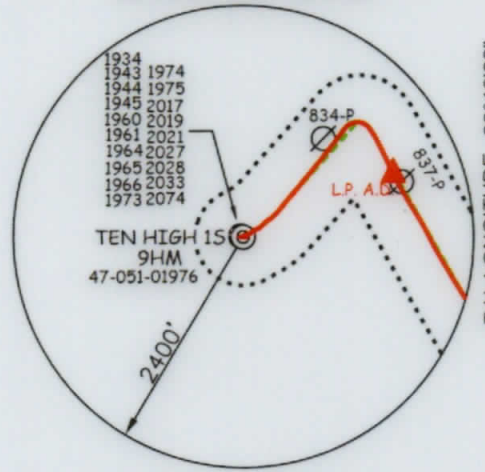


**TEN HIGH 1S LEASE  
WELL 9HM  
TUG HILL OPERATING**

9,332' B.H. AS DRILLED

3,932' 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"

2,130' B.H. A.D.  
9,685' T.H. AS DRILLED

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

NAD'83 S.P.C.(FT) N. 478,137.92 E. 1,636,818.78  
NAD'83 GEO. LAT-(N) 39.826747 LONG-(W) 80.680663  
NAD'83 UTM (M) N. 4,406,357.15 E. 527,335.20

**LANDING POINT**

NAD'83 S.P.C.(FT) N. 478,836.5 E. 1,638,376.3  
NAD'83 GEO. LAT-(N) 39.828121 LONG-(W) 80.675152  
NAD'83 UTM (M) N. 4,406,577.9 E. 527,806.1

**BOTTOM HOLE**

NAD'83 S.P.C.(FT) N. 470,438.7 E. 1,643,039.6  
NAD'83 GEO. LAT-(N) 39.735934 LONG-(W) 80.658169  
NAD'83 UTM (M) N. 4,404,043.2 E. 529,269.6

**AS DRILLED COORDINATES  
FOR WELL NO. 9HM**

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

NAD'83 S.P.C.(FT) N. 478,137.92 E. 1,636,818.78  
NAD'83 GEO. LAT-(N) 39.826747 LONG-(W) 80.680663  
NAD'83 UTM (M) N. 4,406,357.15 E. 527,335.20

**LANDING POINT**

NAD'83 S.P.C.(FT) N. 478,786.4 E. 1,638,385.2  
NAD'83 GEO. LAT-(N) 39.828121 LONG-(W) 80.675115  
NAD'83 UTM (M) N. 4,406,577.9 E. 527,809.4

**BOTTOM HOLE**

NAD'83 S.P.C.(FT) N. 470,432.7 E. 1,643,028.5  
NAD'83 GEO. LAT-(N) 39.735934 LONG-(W) 80.658208  
NAD'83 UTM (M) N. 4,404,043.2 E. 529,266.3

**NOTES ON SURVEY**

1. 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.
2. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'
3. AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
4. PLAT UPDATED TO SHOW AS-DRILLED PATH.



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26039 | 4462.5634  
1412 Kanawha Boulevard, East | Charleston, WV 25304 | 346.3952  
254 East Beckley Bypass | Beckley, WV 25801 | 55.5296  
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-9HM  
API WELL NO. 47 - 051 - 1976  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 8655P9HMAD.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 \_\_\_\_\_ LIQUID WASTE IF  
GAS X INJECTION \_\_\_\_\_ DISPOSAL \_\_\_\_\_ "GAS" PRODUCTION X STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW X

LOCATION: GROUND = 1,317.00'  
ELEVATION 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 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: 17,101'

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



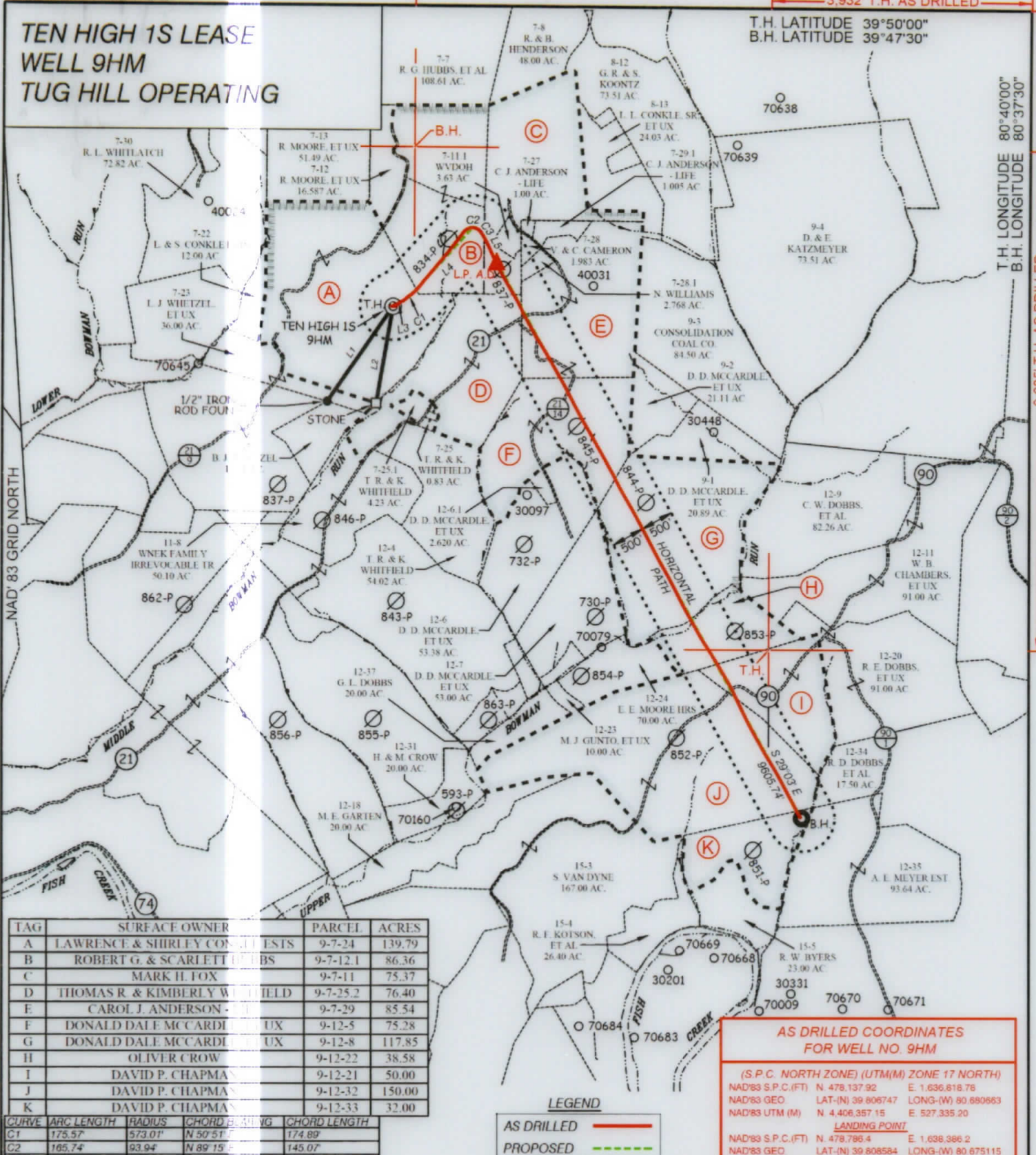
9,332' B.H. AS DRILLED

3,932' T.H. AS DRILLED

**TEN HIGH 1S LEASE  
WELL 9HM  
TUG HILL OPERATING**

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

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



TAG	SURFACE OWNER	PARCEL	ACRES
A	LAWRENCE & SHIRLEY CONNORS ESTATE	9-7-24	139.79
B	ROBERT G. & SCARLETT HUBBS	9-7-12.1	86.36
C	MARK H. FOX	9-7-11	75.37
D	THOMAS R. & KIMBERLY WHITFIELD	9-7-25.2	76.40
E	CAROL J. ANDERSON - LIFE	9-7-29	85.54
F	DONALD DALE MCCARDLE ET UX	9-12-5	75.28
G	DONALD DALE MCCARDLE ET UX	9-12-8	117.85
H	OLIVER CROW	9-12-22	38.58
I	DAVID P. CHAPMAN	9-12-21	50.00
J	DAVID P. CHAPMAN	9-12-32	150.00
K	DAVID P. CHAPMAN	9-12-33	32.00

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	175.57'	573.01'	N 50° 51' E	174.89'
C2	165.74'	93.94'	N 89° 15' E	145.07'
C3	84.34'	314.07'	S 35° 33' E	84.09'

LINE	BEARING	DISTANCE
L1	S 34° 46' W	1739.30'
L2	S 09° 48' W	1473.18'
L3	N 60° 57' E	203.25'
L4	N 42° 13' E	1254.70'
L5	S 29° 03' E	426.90'

**AS DRILLED COORDINATES FOR WELL NO. 9HM**

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

NAD'83 S.P.C.(FT)	N 478,137.92	E 1,636,818.78
NAD'83 GEO.	LAT-(N) 39.806747	LONG-(W) 80.680663
NAD'83 UTM (M)	N 4,406,357.15	E 527,335.20

**LANDING POINT**

NAD'83 S.P.C.(FT)	N 478,786.4	E 1,638,386.2
NAD'83 GEO.	LAT-(N) 39.808584	LONG-(W) 80.675115
NAD'83 UTM (M)	N 4,406,562.7	E 527,809.4

**BOTTOM HOLE**

NAD'83 S.P.C.(FT)	N 470,433.5	E 1,643,028.5
NAD'83 GEO.	LAT-(N) 39.785820	LONG-(W) 80.658208
NAD'83 UTM (M)	N 4,404,041.6	E 529,268.3

**LEGEND**

AS DRILLED ——— (Red line)

PROPOSED - - - - - (Green dashed line)

12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26034 | 462.5634

1412 Kanawha Boulevard, East | Charleston, WV 25301 | 346.3952

254 East Beckley Bypass | Beckley, WV 25801 | 5396

slswww.com

P.S. 849 *C. Victor Moyers*

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

NAD'83 S.P.C.(FT)	N 478,137.92	E 1,636,818.78
NAD'83 GEO.	LAT-(N) 39.806747	LONG-(W) 80.680663
NAD'83 UTM (M)	N 4,406,357.15	E 527,335.20

**LANDING POINT**

NAD'83 S.P.C.(FT)	N 478,836.6	E 1,638,376.3
NAD'83 GEO.	LAT-(N) 39.808721	LONG-(W) 80.675152
NAD'83 UTM (M)	N 4,406,577.9	E 527,806.1

**BOTTOM HOLE**

NAD'83 S.P.C.(FT)	N 470,433.7	E 1,643,039.6
NAD'83 GEO.	LAT-(N) 39.785834	LONG-(W) 80.658169
NAD'83 UTM (M)	N 4,404,042.2	E 529,269.6

**VICTOR MOYERS**  
LICENSED  
No. 849  
STATE OF  
WEST VIRGINIA  
PROFESSIONAL SURVEYOR

(+) 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
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE WW-6A1)

SCALE 1" = 2000' FILE NO. 8655P9HMAD.dwg

DATE MARCH 24, 2020

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

OPERATORS WELL NO. TEN HIGH 1S-9HM

API WELL NO. 47 — 051 — 1976

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  
ADDRESS CT CORPORATION SYSTEM 5400 D BIG TYLER ROAD CHARLESTON, WV 25313