

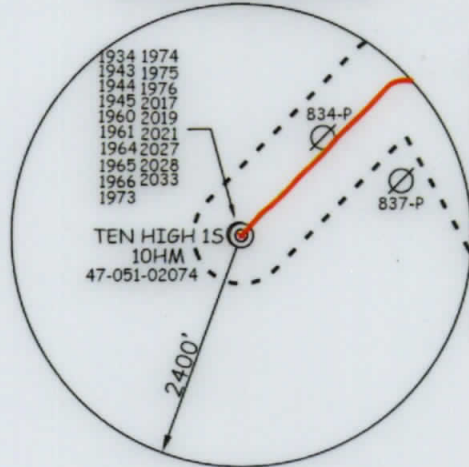
**TEN HIGH 1S LEASE
WELL 10HM
TUG HILL OPERATING**

B.H.

9,021' B.H. AS DRILLED

3,944' 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"

1,134' T.H. AS DRILLED
9,682' T.H. AS DRILLED

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

NAD'83 S.P.C. (FT)	N. 478,140.90	E. 1,636,806.64
NAD'83 GEO.	LAT-(N) 39.806755	LONG-(W) 80.680707
NAD'83 UTM (M)	N. 4,406,358.00	E. 527,331.48
<u>LANDING POINT</u>		
NAD'83 S.P.C. (FT)	N. 479,401.6	E. 1,638,968.1
NAD'83 GEO.	LAT-(N) 39.810293	LONG-(W) 80.673072
NAD'83 UTM (M)	N. 4,406,753.1	E. 527,983.6
<u>BOTTOM HOLE</u>		
NAD'83 S.P.C. (FT)	N. 471,424.4	E. 1,643,350.4
NAD'83 GEO.	LAT-(N) 39.788551	LONG-(W) 80.657108
NAD'83 UTM (M)	N. 4,404,345.1	E. 529,359.3

**AS DRILLED COORDINATES
FOR WELL NO. 10HM**

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

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NAD'83 GEO.	LAT-(N) 39.806755	LONG-(W) 80.680707
NAD'83 UTM (M)	N. 4,406,358.00	E. 527,331.48
<u>LANDING POINT</u>		
NAD'83 S.P.C. (FT)	N. 478,724.1	E. 1,639,335.8
NAD'83 GEO.	LAT-(N) 39.808446	LONG-(W) 80.671732
NAD'83 UTM (M)	N. 4,406,548.5	E. 528,099.0
<u>BOTTOM HOLE</u>		
NAD'83 S.P.C. (FT)	N. 471,425.5	E. 1,643,352.0
NAD'83 GEO.	LAT-(N) 39.788554	LONG-(W) 80.657102
NAD'83 UTM (M)	N. 4,404,345.4	E. 529,359.7

T.H.

NOTES ON SURVEY

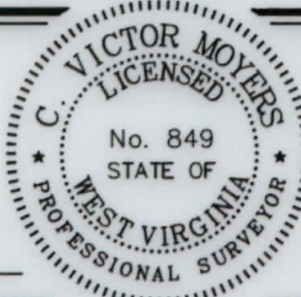
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS > 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'
- AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
- PLAT UPDATED TO SHOW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



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
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. C. Victor Moyers
849



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE MARCH 24, 20 20
REVISED _____, 20 ____
OPERATORS WELL NO. TEN HIGH 1S-10HM
API WELL NO. 47 - 051 - 2074
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P10HMAD.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 <input type="checkbox"/>	GAS <input checked="" type="checkbox"/>	INJECTION <input type="checkbox"/>	WASTE DISPOSAL <input type="checkbox"/>	IF "GAS" PRODUCTION <input checked="" type="checkbox"/>	STORAGE <input type="checkbox"/>	DEEP <input type="checkbox"/>	SHALLOW <input checked="" type="checkbox"/>	
LOCATION:	GROUND = 1,318.60'		PROPOSED = 1,310.06'		WATERSHED <u>MIDDLE BOWMAN RUN OF FISH CREEK (HUC 10)</u>				
	DISTRICT <u>MEADE</u>		COUNTY <u>MARSHALL</u>		QUADRANGLE <u>GLEN EASTON 7.5'</u>				
SURFACE OWNER	<u>LAWRENCE & SHIRLEY CONKLE ESTS</u>				ACREAGE		<u>139.79±</u>		
ROYALTY OWNER	<u>ANDY PAUL & JACKIE KUHN, ET AL - WW-6A1</u>				ACREAGE		<u>139.79±</u>		
PROPOSED WORK:					LEASE NO.		<u>SEE WW-6A1</u>		
DRILL <input checked="" type="checkbox"/>	CONVERT <input type="checkbox"/>	DRILL DEEPER <input type="checkbox"/>	REDRILL <input type="checkbox"/>	FRACTURE OR STIMULATE <input checked="" type="checkbox"/>	PLUG OFF OLD FORMATION <input type="checkbox"/>	PERFORATE NEW FORMATION <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	CLEAN OUT AND REPLUG <input type="checkbox"/>	OTHER <input type="checkbox"/>
PHYSICAL CHANGE IN WELL (SPECIFY) _____				TARGET FORMATION <u>MARCELLUS</u>		ESTIMATED DEPTH <u>TVD: 6,865' / TMD: 17,021'</u>			

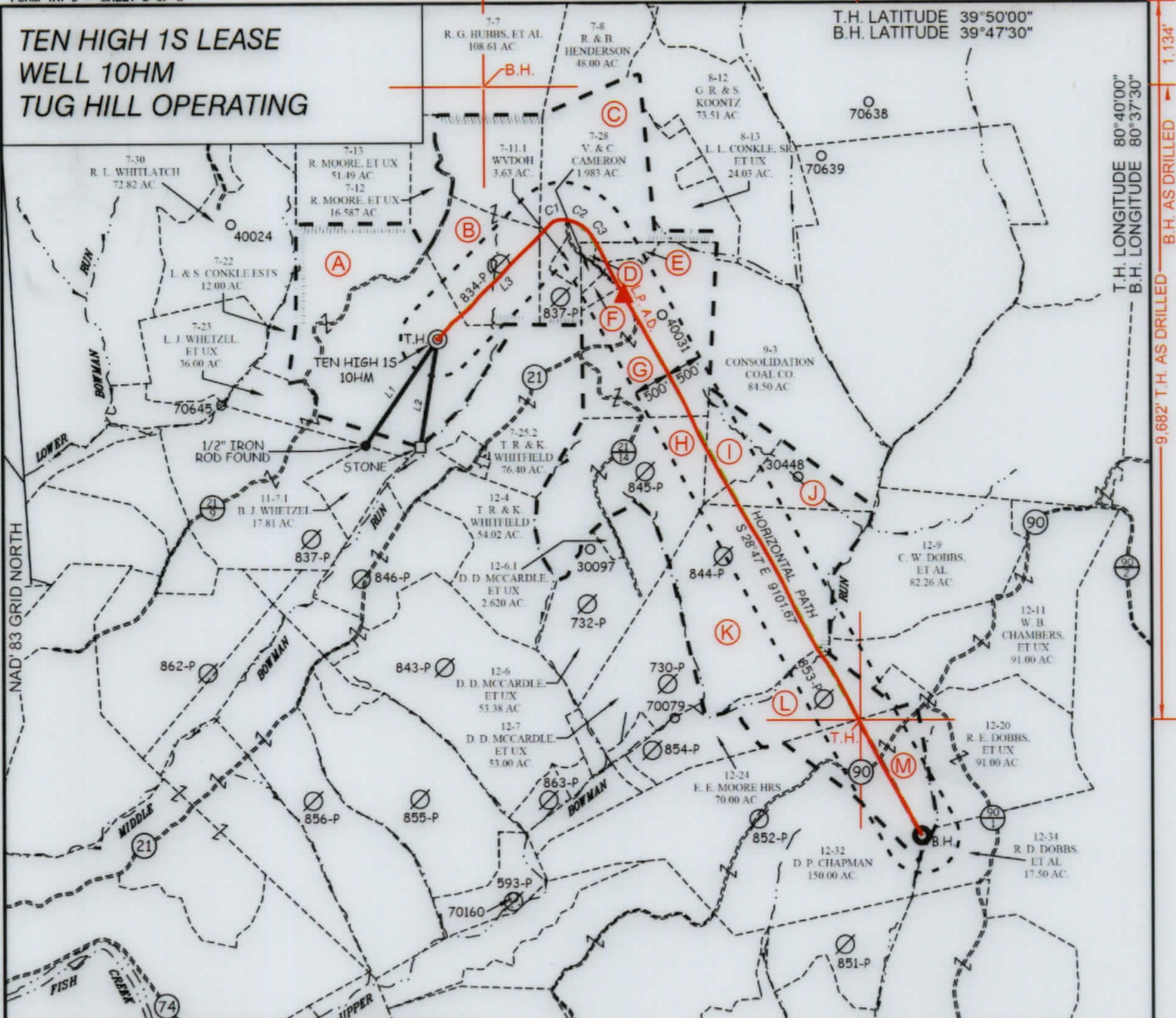
WELL OPERATOR	<u>TUG HILL OPERATING, LLC</u>	DESIGNATED AGENT	<u>DIANNA STAMPER</u>
ADDRESS	<u>1320 SOUTH UNIVERSITY DRIVE, SUITE 500</u>	ADDRESS	<u>CT CORPORATION SYSTEM</u>
	<u>FORT WORTH, TX 76107</u>		<u>5400 D BIG TYLER ROAD</u>
			<u>CHARLESTON, WV 25313</u>

COUNTY NAME
PERMIT

**TEN HIGH 1S LEASE
WELL 10HM
TUG HILL OPERATING**

9,021' B.H. AS DRILLED 3,944' T.H. AS DRILLED

T.H. LATITUDE 39°50'00"
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1,134' B.H. AS DRILLED

TAG	SURFACE OWNER	PARCEL	ACRES
A	LAWRENCE & SHIRLEY CONKLE ESTS	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	CAROL J. ANDERSON - LIFE	9-7-27	1.00
E	CAROL J. ANDERSON - I LIFE	9-7-29.1	5.004
F	NATHAN WILLIAMS	9-7-28.1	2.768
G	CAROL J. ANDERSON - LIFE	9-7-29	85.54
H	DONALD DALE MCCARDLE, ET UX	9-12-5	75.28
I	DONALD DALE MCCARDLE, ET UX	9-9-2	21.11
J	DONALD DALE MCCARDLE, ET UX	9-9-1	20.89
K	DONALD DALE MCCARDLE, ET UX	9-12-8	117.85
L	OLIVER CROW	9-12-22	38.58
M	DAVID P. CHAPMAN	9-12-21	50.00

LEGEND
AS DRILLED ——— (Red line)
PROPOSED - - - - - (Green dashed line)

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	224.63'	240.52'	N 70°13' E	216.55'
C2	280.35'	482.44'	S 64°31' E	276.43'
C3	300.91'	853.76'	S 38°41' E	299.35'

LINE	BEARING	DISTANCE
L1	S 34°23' W	1734.86'
L2	S 09°19' W	1474.10'
L3	N 44°39' E	2164.55'

AS DRILLED COORDINATES FOR WELL NO. 10HM

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

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NAD'83 GEO	LAT-(N) 39.806755	LONG-(W) 80.680707
NAD'83 UTM (M)	N 4,406,358.00	E 527,331.48

LANDING POINT

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BOTTOM HOLE

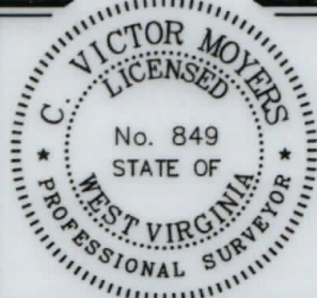
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LEGEND

- 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. 8655P10HMAD.dwg

DATE MARCH 24, 20 20

REVISED _____, 20 _____

OPERATORS WELL NO. TEN HIGH 1S-10HM

API WELL NO. 47 — 051 — 2074

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
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