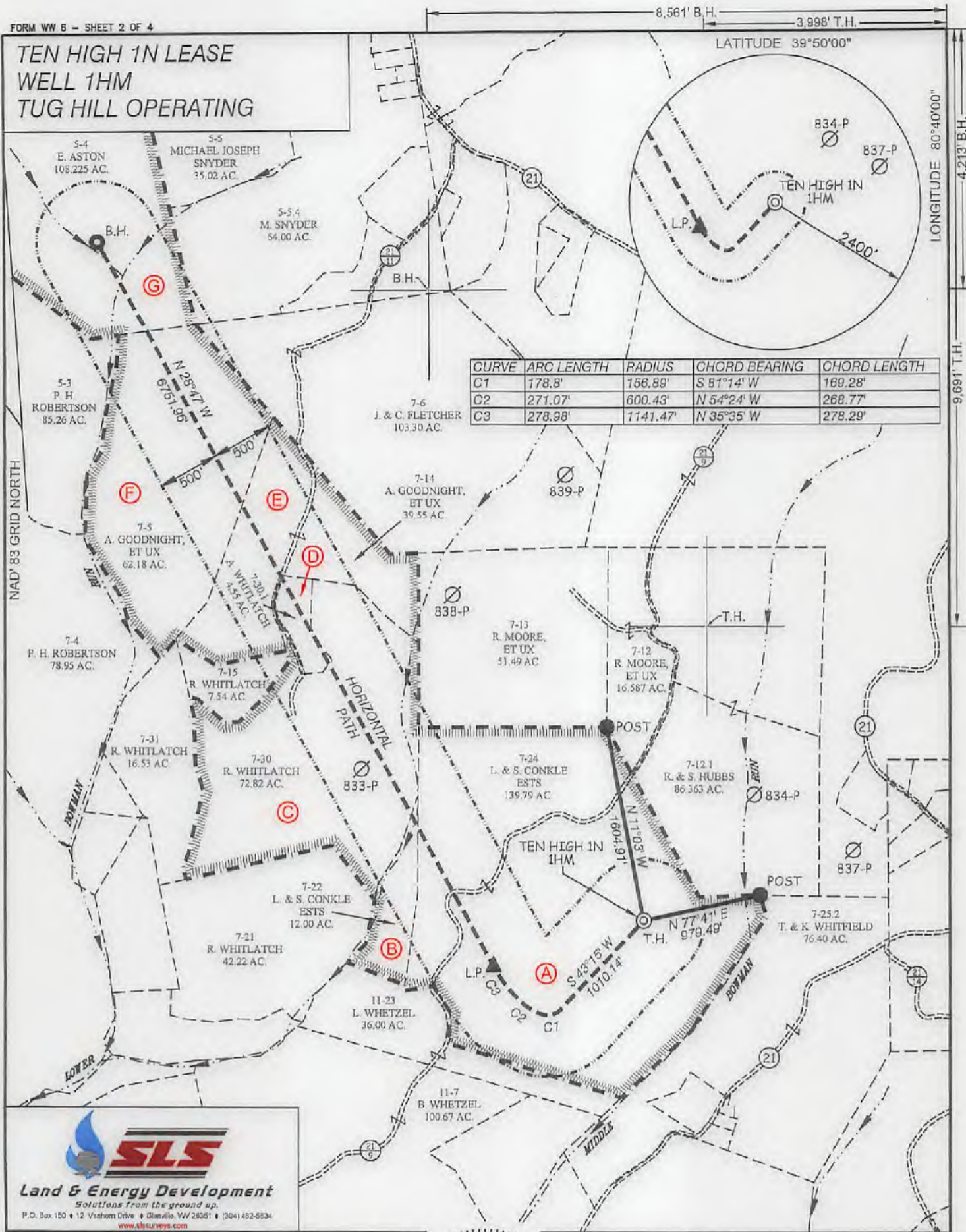


**TEN HIGH 1N LEASE
WELL 1HM
TUG HILL OPERATING**



SLS
Land & Energy Development
Solutions from the ground up.
P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 26031 • (304) 482-8534
www.slsurveys.com

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

NAD83 S.P.C. (FT)	N. 478,132.41	E. 1,836,783.07
NAD83 GEO.	LAT-(N) 39.809729	LONG-(W) 80.980997
NAD83 UTM (M)	N. 4,406,955.14	E. 527,315.21

LANDING POINT

NAD83 S.P.C. (FT)	N. 477,753.6	E. 1,835,513.2
NAD83 GEO.	LAT-(N) 39.805645	LONG-(W) 80.985292
NAD83 UTM (M)	N. 4,406,233.4	E. 526,999.4

BOTTOM HOLE

NAD83 S.P.C. (FT)	N. 483,670.8	E. 1,632,261.3
NAD83 GEO.	LAT-(N) 39.821770	LONG-(W) 80.997147
NAD83 UTM (M)	N. 4,408,019.6	E. 525,918.6



(+) 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
LEASE # (SEE PAGES 1,3,4)	(A)

SCALE 1" = 1000' FILE NO. 8655P1HMR.dwg

DATE JUNE 15, 2017

REVISED SEPTEMBER 12, 2017

OPERATORS WELL NO. TEN HIGH 1N-1HM

API WELL NO. 47-051-01943

NO. STATE COUNTY PERMIT

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

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

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

COUNTY NAME PERMIT

09/22/2017

8,561' B.H.

3,998' T.H.

LATITUDE 39°50'00"

TEN HIGH 1N LEASE
WELL 1HM
TUG HILL OPERATING

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	178.8'	156.89'	S 81°14' W	169.28'
C2	271.07'	600.43'	N 54°24' W	268.77'
C3	278.98'	1141.47'	N 35°35' W	278.29'

B.H.

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'83 S.P.C.(FT) N. 476,132.41 E. 1,636,753.07
 NAD'83 GEO. LAT-(N) 39.806729 LONG-(W) 80.680897
 NAD'83 UTM (M) N. 4,406,355.14 E. 527,315.21
LANDING POINT
 NAD'83 S.P.C.(FT) N. 477,753.6 E. 1,635,513.2
 NAD'83 GEO. LAT-(N) 39.805645 LONG-(W) 80.685292
 NAD'83 UTM (M) N. 4,406,233.4 E. 526,939.4
BOTTOM HOLE
 NAD'83 S.P.C.(FT) N. 489,670.9 E. 1,632,261.3
 NAD'83 GEO. LAT-(N) 39.821770 LONG-(W) 80.697147
 NAD'83 UTM (M) N. 4,408,019.6 E. 525,918.6

LONGITUDE 80°40'00"
4,213' B.H.
9,691' T.H.

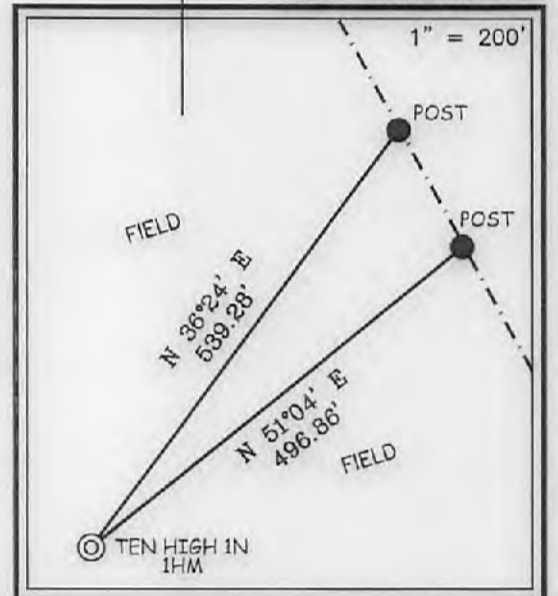
No.	Lease Name or No.	Tag	Parcel	Oil & Gas Royalty Owner	Deed Book/Page
1	10*15662	A	9-7-24	LARRY LEE CONKLE	863 354
2	10*15663	A	9-7-24	ROY A CONKLE SR	863 311
3	10*15664	A	9-7-24	THERESA ANNE HUGHES	863 343
4	10*15666	A	9-7-24	BRENDA J WHETZEL	863 635
5	10*16049	A	9-7-24	DANNY SHAWN KERNS AND AMY LYNN KERNS	905 518
6	10*16820	A	9-7-24	ROBERTA ANN AND DAVID S GIBB	919 237
7	10*17965	A	9-7-24	MVSTI JOANNE GOODMAN	927 468
8	10*17370	A	9-7-24	KELLY JUNE GOODMAN	927 470
9	10*47051.295.10	A	9-7-24	DEENA J PALOMO	905 470
10	10*47051.295.11	A	9-7-24	REGINA D FIGUEROA AND DAVID FIGUEROA	905 435
11	10*47051.295.12	A	9-7-24	EARL D WELLMAN	905 432
12	10*47051.295.13	A	9-7-24	THE DOLLY F WOOD REVOCABLE TRUST BY NICHOLAS CHARLES WOOD AS TRUSTEE	904 641
13	10*47051.295.3	A	9-7-24	HAZEL ARIZONA MOORE REYNOLDS	904 632
14	10*47051.295.4	A	9-7-24	LLOYD D MOORE	904 459
15	10*47051.295.5	A	9-7-24	DALE R MOORE	904 635
16	10*47051.295.6	A	9-7-24	MARY I BURKHART	904 638
17	10*47051.295.7	A	9-7-24	JEANNE V MELCHIORI	904 462
18	10*47051.295.9	A	9-7-24	JAMES E HIMELRICK JR AND KAREN HIMELRICK	904 465
19	10*15486	B	9-7-22	RICHARD NEAL NORRIS AND CAROL NORRIS	850 403
20	10*15487	B	9-7-22	WILLIAM C RUTAN	905 430
21	10*15489	B	9-7-22	DONALD T SNODGRASS AND LILA F SNODGRASS	915 189
22	10*15492	B	9-7-22	HEATHER WHORTON STILLION AND CHRISTOPHER STILLION	905 473
23	10*15609	B	9-7-22	MICHELLE R WILHELM	834 456
24	10*15610	B	9-7-22	SARAH STEVENS	834 432
25	10*15611	B	9-7-22	ROBERT S ZEHNDER	834 437
26	10*15612	B	9-7-22	VERA SHIRLENE & ARTHUR WORKMAN	837 361
27	10*15613	B	9-7-22	THOMAS L STEVENS	836 290
28	10*15614	B	9-7-22	DAVID F RINE	837 130
29	10*15615	B	9-7-22	PAUL WAYNE RINE	837 131
30	10*15616	B	9-7-22	PHILIP C RINE	836 332
31	10*15617	B	9-7-22	GLADYS M RINE	836 329
32	10*15618	B	9-7-22	CHARLES A RINE	835 22
33	10*15619	B	9-7-22	SHARON M REYNOLDS	840 322
34	10*15620	B	9-7-22	GLADYS RUCKMAN	840 319
35	10*15621	B	9-7-22	KATHERINE A STALNAKER	840 325
36	10*15622	B	9-7-22	JAY LEROY RINE	840 351
37	10*15623	B	9-7-22	SUSAN JANE WHEELER	847 473
38	10*15624	B	9-7-22	RONALD A ZEHNDER	847 213
39	10*15625	B	9-7-22	LAWRENCE W STIRLING	852 384
40	10*15626	B	9-7-22	ROBERT J SEAVER	854 77

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'

T.H.

REFERENCES



Handwritten signature and date: gm 6/19/17

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. 677

Handwritten signature: Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE JUNE 15, 20 17
 REVISED _____, 20 ____
 OPERATORS WELL NO. TEN HIGH 1N-1HM
 API WELL NO. 47 - 051 - 01943
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P1HM.dwg
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 1000'

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 = 1,320.70' 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 - SEE TABLE ABOVE 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: 14,098'

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

09/22/2017