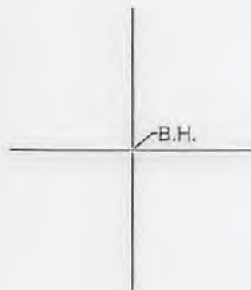


**TEN HIGH 1N LEASE
WELL 13HU
TUG HILL OPERATING**

6,052' B.H. 3,969' T.H.
LATITUDE 39°50'00"

LONGITUDE 80°40'00"
3,481' B.H.
9,676' T.H.

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'83 S.P.C.(FT) N. 473,146.86 E. 1,636,782.34
 NAD'83 GEO. LAT-(N) 39.806770 LONG-(W) 80.680793
 NAD'83 UTM (M) N. 4,408,359.89 E. 527,324.06
LANDING POINT
 NAD'83 S.P.C.(FT) N. 479,000.1 E. 1,637,783.7
 NAD'83 GEO. LAT-(N) 39.809148 LONG-(W) 80.677341
 NAD'83 UTM (M) N. 4,408,624.8 E. 527,618.7
BOTTOM HOLE
 NAD'83 S.P.C.(FT) N. 484,899.1 E. 1,634,779.9
 NAD'83 GEO. LAT-(N) 39.923778 LONG-(W) 80.686213
 NAD'83 UTM (M) N. 4,408,245.1 E. 526,682.3

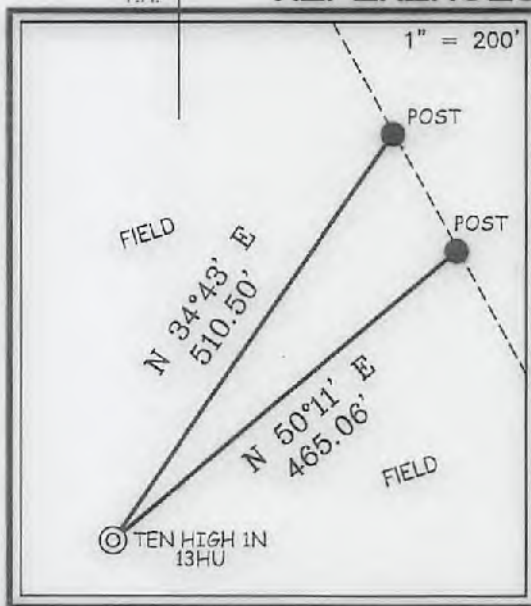


TAG	SURFACE OWNER	PARCEL	ACRES
A	LAWRENCE & SHIRLEY CONKLE ESTS	9-7-24	139.79
B	THOMAS R. & KIMBERLY WHITFIELD	9-7-25.2	76.40
C	MARK H. FOX	9-7-11	75.37
D	ROBERT G. HUBBS, ET AL	9-7-12.1	86.363
E	RONALD MOORE, ET UX	9-7-12	16.587
F	RONALD MOORE, ET UX	9-7-13	51.49
G	ROBERT GLENN HUBBS, ET AL	9-7-7	108.61
H	JERRY G. & CAROLYN K. FLETCHER	9-7-6	103.30
I	DAVID L. HOLMES, ET UX	9-5-14	37.345
J	DAVID L. HOLMES, ET UX	9-5-14.2	4.99
K	DAVID L. HOLMES, ET UX	9-5-14.5	1.66
L	BETTY R. OTT	9-5-14.4	10.50
M	CARLA SUE CROW	9-5-17	6.34
N	DONALD E. LEACH - LIFE	9-5-18	5.80
O	DONALD E. LEACH - LIFE	9-5-20	6.92
P	BETTY R. OTT	9-5-19	0.93
Q	JERRY L. RUSH JR., ET UX	9-5-16	2.36
R	MARK H. FOX, ET UX	9-5-15	36.53
S	SCOTT A. HOSTUTLER	9-5-16.1	0.14
T	SCOTT A. HOSTUTLER	9-5-8	26.75
U	MICHAEL JOSEPH SNYDER	9-5-5.4	64.00

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'

REFERENCES



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 Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE AUGUST 14, 20 17
 REVISED JANUARY 10 & FEBRUARY 8, 20 18
 OPERATORS WELL NO. TEN HIGH 1N-13HU
 API WELL NO. 47 - 051 - 01965 *H6A*
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8855P13HUR2.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 LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: GROUND = 1,321.50' 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 PGS. 3, 4, 5 & 6 ACREAGE 139.79±

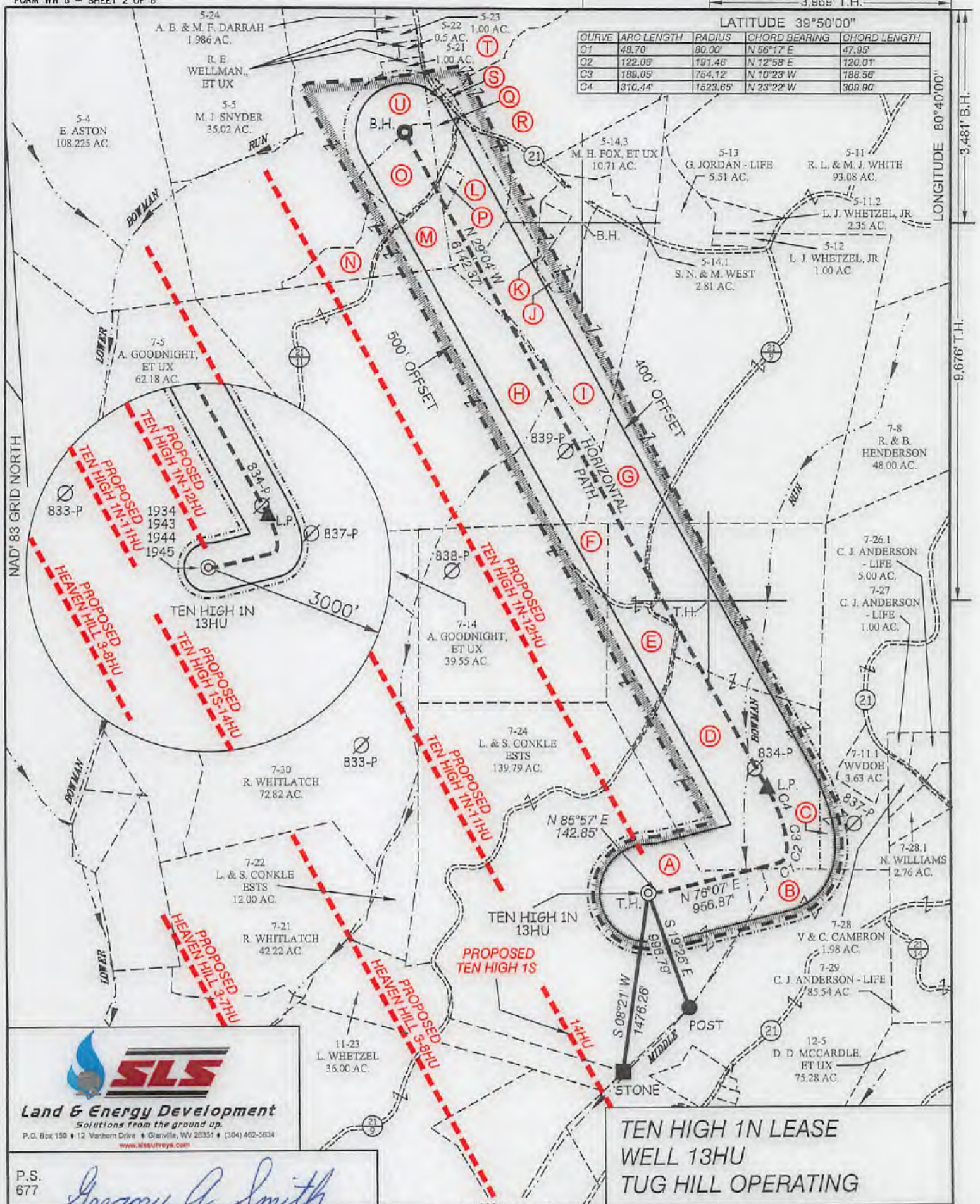
PROPOSED WORK: LEASE NO. SEE PGS. 3, 4, 5 & 6
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION POINT PLEASANT
 ESTIMATED DEPTH TVD: 11,878' / TMD: 18,325'

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

06/15/2018

LATITUDE 39°50'00"				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	48.70	80.00	N 66°17' E	47.95
C2	122.06	191.46	N 12°58' E	120.01
C3	189.05	264.12	N 10°23' W	188.56
C4	310.44	1623.85	N 23°22' W	309.90



**TEN HIGH 1N LEASE
WELL 13HU
TUG HILL OPERATING**

P.S. 677
Gregory A. Smith

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BOTTOM HOLE			
NAD'83 S.P.C.(FT)	N. 484,388.1	E. 1,834,779.9	
NAD'83 GEO.	LAT-(N) 39.823778	LONG-(W) 80.688213	
NAD'83 UTM (M)	N. 4,409,245.1	E. 526,882.3	



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

LEGEND	
UNIT BOUNDARY	
LEASED TRACTS INSIDE	
UNIT BOUNDARY	
SURFACE LINE	
DEED WELL LATERAL WITHIN 3000'	
WELL LATERAL	
400' OFFSET LINE	
500' OFFSET LINE	
TIE LINE	
CREEK	
ROAD	
COUNTY ROUTE	
PROPOSED WELL	
EXISTING WELL	
PERMITTED WELL	
SURFACE OWNER (SEE TABLE-SHEET 1)	
LEASE # (SEE PGS. 3,4,5&6)	

SCALE 1" = 1000' FILE NO. 8655P13HUR2.dwg
 DATE AUGUST 14, 20 17
 REVISED JANUARY 10 & FEBRUARY 8, 20 18
 OPERATORS WELL NO. TEN HIGH 1N-13HU
 API WELL NO. 47 - OS1 - 01965H6A
 NO. STATE COUNTY PERMIT

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

06/15/2018

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	5400 D BIG TYLER ROAD
	CHARLESTON, WV 25313