

TEN HIGH 1S LEASE  
 UTICA UNIT - 623.86 AC. ±  
 WELL 15HU  
 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. 478,155.79	E. 1,636,745.94
NAD'83 GEO.	LAT-(N) 39.806793	LONG-(W) 80.680923
NAD'83 UTM (M)	N. 4,406,362.22	E. 527,312.91

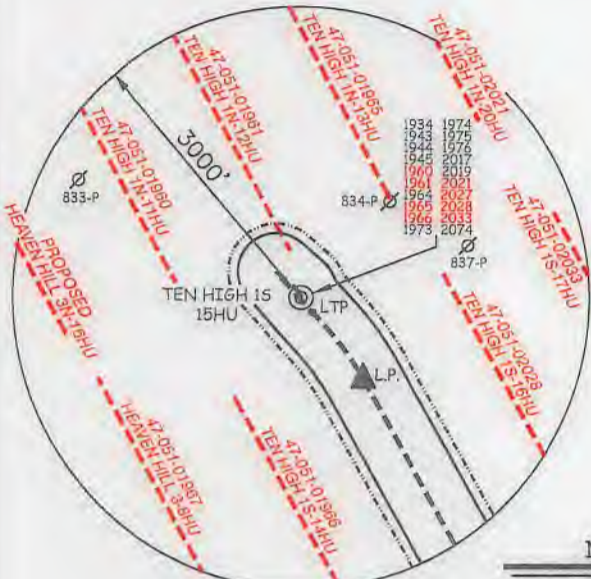
LANDING POINT

NAD'83 S.P.C.(FT)	N. 477,317.7	E. 1,637,390.8
NAD'83 GEO.	LAT-(N) 39.804516	LONG-(W) 80.678589
NAD'83 UTM (M)	N. 4,406,110.2	E. 527,513.6

BOTTOM HOLE

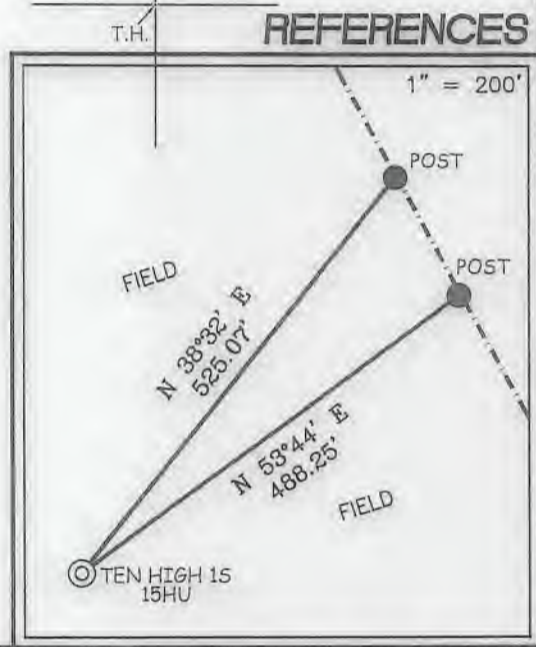
NAD'83 S.P.C.(FT)	N. 469,988.5	E. 1,641,509.0
NAD'83 GEO.	LAT-(N) 39.784544	LONG-(W) 80.663594
NAD'83 UTM (M)	N. 4,403,898.3	E. 528,805.6

T.H. LONGITUDE 80°40'00"  
 B.H. LONGITUDE 80°37'30"  
 2,595' B.H.  
 9,668' T.H.



NOTES ON SURVEY

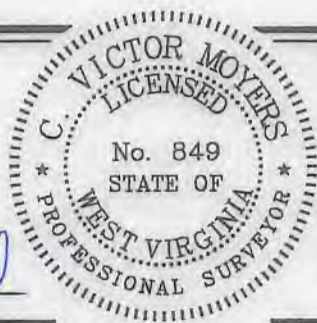
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. WERE FOUND WITHIN 825' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.
- PROPOSED LATERAL OR TOP HOLE OF TEN HIGH 1S-15HU (47-051-02027) IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF THE FOLLOWING:  
 HEAVEN HILL 3-8HU (47-051-01967),  
 PROPOSED HEAVEN HILL 3N-16HU,  
 TEN HIGH 1N-11HU (47-051-01960),  
 TEN HIGH 1N-12HU (47-051-01961),  
 TEN HIGH 1N-13HU (47-051-01965),  
 TEN HIGH 1S-14HU (47-051-01966),  
 TEN HIGH 1S-16HU (47-051-02028),  
 TEN HIGH 1S-17HU (47-051-02033),  
 TEN HIGH 1N-20HU (47-051-02021).



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.6634  
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952  
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
 slsw.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 AUGUST 29, 20 17  
 REVISED 09/01/17, 01/12/18, 03/22/18, 04/05/18, 10/01/19, 11/12/19, & 07/08/20  
 OPERATORS WELL NO. TEN HIGH 1S-15HU  
 API WELL NO. 47 - 051 - 02027 MOD  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P15HUR7.dwg  
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'  
 TEN HIGH 1S-15HU Rev4

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 = 1,323.00' 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 - SEE ADDITIONAL SHEETS ACREAGE 139.79±

PROPOSED WORK: LEASE NO. SEE ADDITIONAL SHEETS  
 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: 11,897' / TMD: 21,170'

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

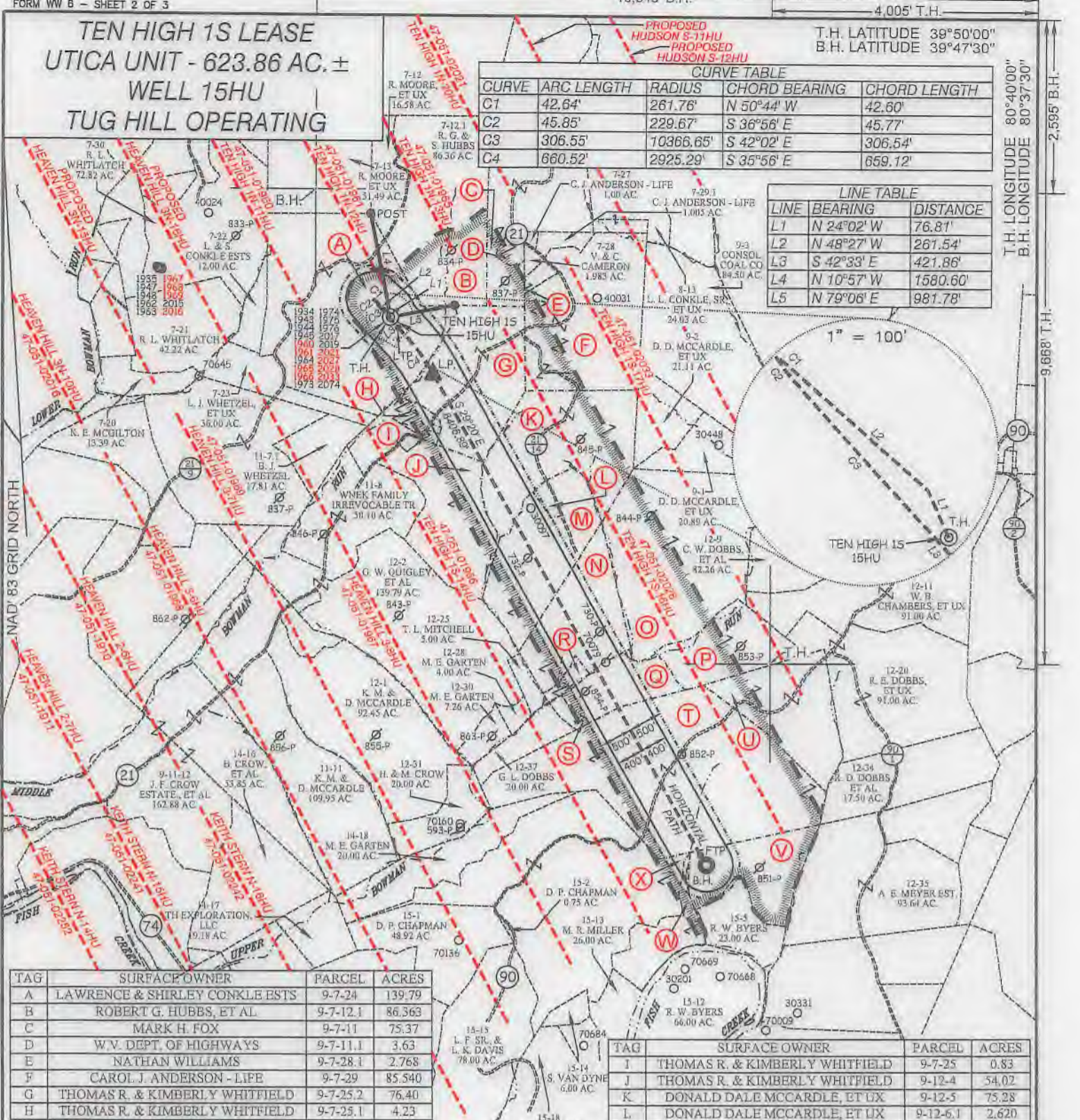
COUNTY NAME PERMIT

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WELL 15HU  
TUG HILL OPERATING**

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

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	42.64'	261.76'	N 50°44' W	42.60'
C2	45.85'	229.67'	S 36°56' E	45.77'
C3	306.55'	10366.65'	S 42°02' E	306.54'
C4	660.52'	2925.29'	S 35°56' E	659.12'

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 24°02' W	76.81'
L2	N 48°27' W	261.54'
L3	S 42°33' E	421.86'
L4	N 10°57' W	1580.60'
L5	N 79°06' E	981.78'



TAG	SURFACE OWNER	PARCEL	ACRES
A	LAWRENCE & SHIRLEY CONKLE ESTS	9-7-24	139.79
B	ROBERT G. HUBBS, ET AL	9-7-12.1	86.363
C	MARK H. FOX	9-7-11	75.37
D	W.V. DEPT. OF HIGHWAYS	9-7-11.1	3.63
E	NATHAN WILLIAMS	9-7-28.1	2.768
F	CAROL J. ANDERSON - LIFE	9-7-29	85.540
G	THOMAS R. & KIMBERLY WHITFIELD	9-7-25.2	76.40
H	THOMAS R. & KIMBERLY WHITFIELD	9-7-25.1	4.23

TAG	SURFACE OWNER	PARCEL	ACRES
I	THOMAS R. & KIMBERLY WHITFIELD	9-7-25	0.83
J	THOMAS R. & KIMBERLY WHITFIELD	9-12-4	54.02
K	DONALD DALE MCCARDLE, ET UX	9-12-5	75.28
L	DONALD DALE MCCARDLE, ET UX	9-12-6.1	2.620
M	DONALD DALE MCCARDLE, ET UX	9-12-6	53.38
N	DONALD DALE MCCARDLE, ET UX	9-12-7	53.00
O	DONALD DALE MCCARDLE, ET UX	9-12-8	117.85
P	OLIVER CROW	9-12-22	38.58
Q	EVERETT F. MOORE HEIRS	9-12-24	70.00
R	ROBERT MCCARDLE, ET UX	9-12-29	7.50
S	MICHAEL J. GUNTO, ET UX	9-12-33	10.00
T	DAVID P. CHAPMAN	9-12-32	150.00
U	DAVID P. CHAPMAN	9-12-21	50.00
V	DAVID P. CHAPMAN	9-12-33	32.00
W	ROBERT FRANK KOTSON, ET AL	9-15-4	26.40
X	SUSAN VAN DYNE	9-15-3	167.00



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**LEGEND**

- UNIT BOUNDARY
- LEASED TRACTS INSIDE UNIT BOUNDARY
- SURFACE LINE
- PROPOSED UTICA
- WELL LATERAL
- 400' OFFSET LINE
- 500' OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- PROPOSED FIRST TAKE POINT
- PROPOSED LAST TAKE POINT
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE ADDITIONAL SHEETS)

SCALE 1" = 2000' FILE NO. 8655P15HUR7.dwg  
TEN HIGH 1S-15HU Rev4  
DATE AUGUST 29, 2017  
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OPERATORS WELL NO. TEN HIGH 1S-15HU  
API WELL NO. 47-051-02027  
NO. STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
*M&D*

DIANNA STAMPER  
CT CORPORATION SYSTEM  
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

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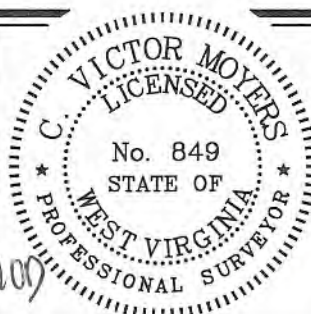
No.	Lease Name or No.	Tag	Parcel	Grantors, Lessors, etc.	Deed Book/Page
1	10*15662	A	9-7-24	LARRY LEE CONKLE, ET AL	863 354
2	10*15501	B	9-7-12.1	RONALD AND EDNA MOORE	661 449
3	10*47051.094.0	C	9-7-11	MARK H FOX	864 163
4	10*19565	D	9-7-11.1	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS	947 566
5	10*19183	E	9-7-28.1	EVELYN M WILLIAM	720 180
6	10*15524	F	9-7-29	CAROL J ANDERSON ETAL	901 563
7	10*15481	G	9-7-25.2	DEAN P RIGBY AND SUSAN RIGBY, ET AL	908 197
8	10*47051.303.1	H	9-7-25.1	THOMAS R WHITFIELD, ET AL	890 401
9	10*47051.303.1	I	9-7-25	THOMAS R WHITFIELD, ET AL	890 401
10	10*15481	J	9-12-4	DEAN P RIGBY AND SUSAN RIGBY, ET AL	908 197
11	10*47051.222.1	K	9-12-5	DONALD D MCCARDLE AND LUCY MCCARDLE	879 314
12	10*47051.222.1	L	9-12-6.1	DONALD D MCCARDLE AND LUCY MCCARDLE	879 314
13	10*47051.222.1	M	9-12-6	DONALD D MCCARDLE AND LUCY MCCARDLE	879 314
14	10*16056	N	9-12-7	JEFFREY A LAUSIN AND KATHLEEN R LAUSIN, ET AL	942 443
15	10*47051.289.1	O	9-12-8	JANICE M HIXSON AND HARRY C HIXSON, ET AL	898 461
16	10*15474	P	9-12-22	CLARK C SAMPSON, ET AL	907 495
17	10*19724	Q	9-12-24	VENABLE ROYALTY LTD A TEXAS LIMITED PARTNERSHIP	935 216
18	10*15484	R	9-12-29	LISA R IMHOFF AND CHAD IMHOFF, ET AL	913 552
19	10*47051.311.0	S	9-12-23	MICHAEL J GUNTO AND ROSEMARY GUNTO	905 16
20	10*47051.140.1	T	9-12-32	DAVID P CHAPMAN & DEBORAH BORCK-CHAPMAN, ET AL	866 318
21	10*47051.140.1	U	9-12-21	DAVID P CHAPMAN & DEBORAH BORCK-CHAPMAN, ET AL	866 318
22	10*47051.140.1	V	9-12-33	DAVID P CHAPMAN & DEBORAH BORCK-CHAPMAN, ET AL	866 318
23	10*16402	W	9-15-4	VALERIE L WAGNER, ET AL	921 464
24	10*15752	X	9-15-3	KIM O CHAMBERS AND DEBRA CHAMBERS, ET AL	906 258

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