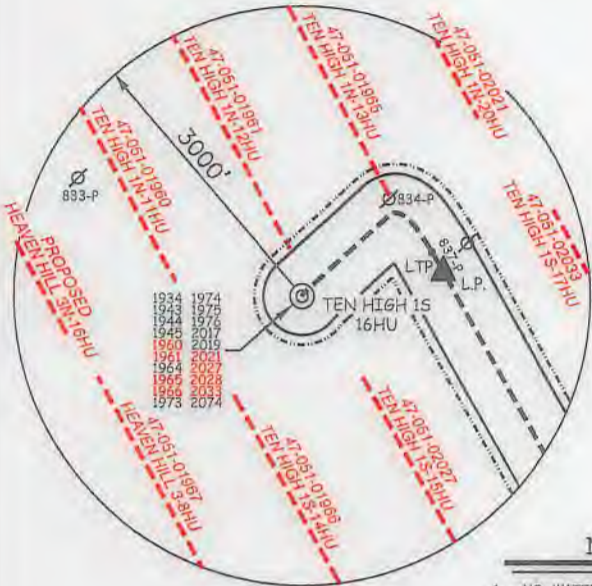


**TEN HIGH 1S LEASE
UTICA UNIT - 623.86 AC. ±
WELL 16HU
TUG HILL OPERATING**

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

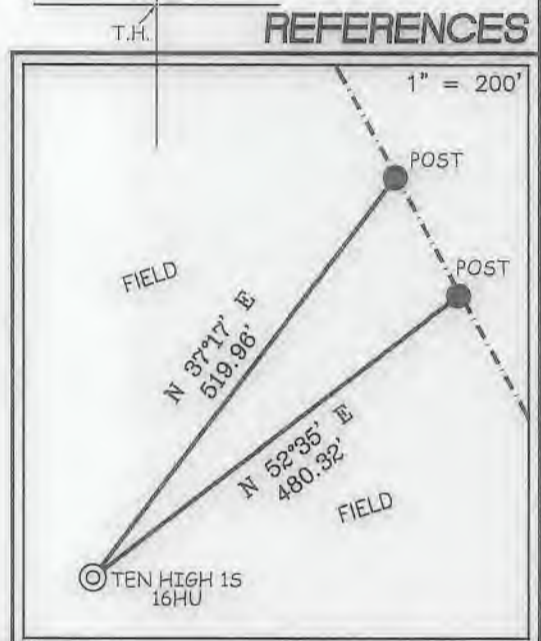
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)			
NAD'83 S.P.C.(FT)	N. 478,152.80	E. 1,636,758.08	
NAD'83 GEO.	LAT-(N) 39.806786	LONG-(W) 80.680880	
NAD'83 UTM (M)	N. 4,406,361.38	E. 527,316.63	
LANDING POINT			
NAD'83 S.P.C.(FT)	N. 478,411.4	E. 1,638,227.1	
NAD'83 GEO.	LAT-(N) 39.807548	LONG-(W) 80.675663	
NAD'83 UTM (M)	N. 4,406,447.6	E. 527,762.9	
BOTTOM HOLE			
NAD'83 S.P.C.(FT)	N. 470,467.8	E. 1,642,674.0	
NAD'83 GEO.	LAT-(N) 39.785901	LONG-(W) 80.659471	
NAD'83 UTM (M)	N. 4,404,050.2	E. 529,158.1	

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"
2,101' B.H.
9,671' T.H.



NOTES ON SURVEY

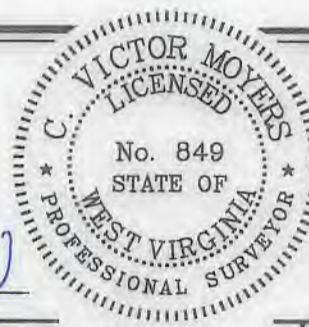
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.
- PROPOSED LATERAL OR TOP HOLE OF TEN HIGH 1S-16HU (47-051-02028) IS WITHIN 3000' OF THE 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-15HU (47-051-02027),
TEN HIGH 1S-17HU (47-051-02033),
TEN HIGH 1N-20HU (47-051-02021),
PROPOSED HUDSON S-11HU.



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1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
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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-16HU
API WELL NO. 47 - 051 - 02028
STATE COUNTY PERMIT

MOD HeA

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P16HUR7.dwg
TEN HIGH 1S-16HU Rev4
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 GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: GROUND = 1,322.90' 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: 11,911' / TMD: 21,437'

COUNTY NAME PERMIT

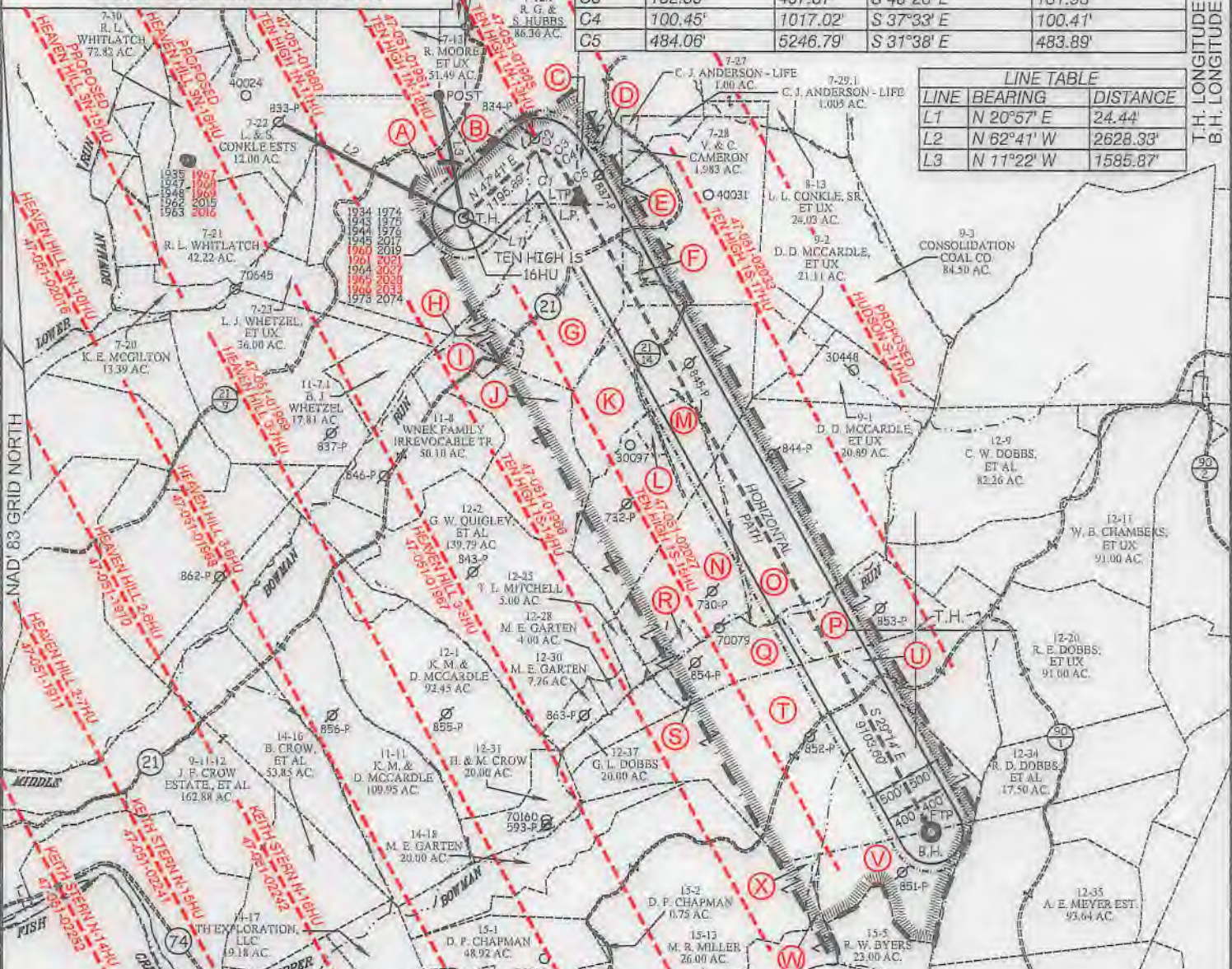
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 CHARLESTON, WV 25313

**TEN HIGH 1S LEASE
UTICA UNIT - 623.86 AC. ±
WELL 16HU
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	83.53'	115.72'	N 63°42' E	81.73'
C2	94.07'	161.56'	S 73°31' E	92.75'
C3	132.39'	457.37'	S 48°26' E	131.93'
C4	100.45'	1017.02'	S 37°33' E	100.41'
C5	484.06'	5246.79'	S 31°38' E	483.89'

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 20°57' E	24.44'
L2	N 62°41' W	2628.33'
L3	N 11°22' W	1585.87'



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	9-12-23	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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NAD'83 UTM (M) N. 4,404,050.2 E. 529,158.1



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

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. 8655P16HUR7.dwg
TEN HIGH 1S-16HU Rev4
DATE AUGUST 29 20 17
REVISED 09/01/17, 01/12/18, 03/22/18, 04/05/18, 10/01/19,
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OPERATORS WELL NO. TEN HIGH 1S-16HU
API WELL NO. 47 — 051 — 02028
NO. STATE COUNTY PERMIT

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



HGA
MOD

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ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
FORT WORTH, TX 76107

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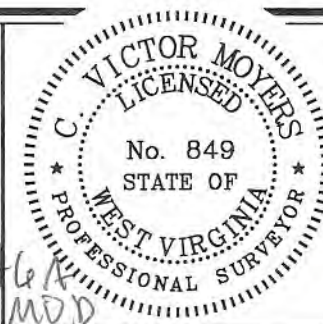
No.	Lease Name or No.	Tag	Parcel	Grantors, Lessors, etc.	Deed Book/Page	
1	10*15662	A	9-7-24	LARRY LEE CONKLE, ET AL	863	354
2	10*15501	B	9-7-12.1	RONALD AND EDNA MOORE	661	449
3	10*47051.094.0	C	9-7-11	MARK H FOX	864	163
4	10*19565	D	9-7-11.1	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS	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*47051.303.2	I	9-7-25	KIMBERLY A WHITFIELD	890	403
11	10*15481	J	9-12-4	DEAN P RIGBY AND SUSAN RIGBY, ET AL	908	197
12	10*47051.222.1	K	9-12-5	DONALD D MCCARDLE AND LUCY MCCARDLE	879	314
13	10*47051.222.1	L	9-12-6.1	DONALD D MCCARDLE AND LUCY MCCARDLE	879	314
14	10*47051.222.1	M	9-12-6	DONALD D MCCARDLE AND LUCY MCCARDLE	879	314
15	10*16056	N	9-12-7	JEFFREY A LAUSIN AND KATHLEEN R LAUSIN, ET AL	942	443
16	10*47051.289.1	O	9-12-8	JANICE M HIXSON AND HARRY C HIXSON, ET AL	898	461
17	10*15474	P	9-12-22	CLARK C SAMPSON, ET AL	907	495
18	10*19724	Q	9-12-24	VENABLE ROYALTY LTD A TEXAS LIMITED PARTNERSHIP	935	216
19	10*15484	R	9-12-29	LISA R IMHOFF AND CHAD IMHOFF, ET AL	913	552
20	10*47051.311.0	S	9-12-23	MICHAEL J GUNTO AND ROSEMARY GUNTO	905	16
21	10*47051.140.1	T	9-12-32	DAVID P CHAPMAN & DEBORAH BORCK-CHAPMAN, ET AL	866	318
22	10*47051.140.1	U	9-12-21	DAVID P CHAPMAN & DEBORAH BORCK-CHAPMAN, ET AL	866	318
23	10*47051.140.1	V	9-12-33	DAVID P CHAPMAN & DEBORAH BORCK-CHAPMAN, ET AL	866	318
24	10*16402	W	9-15-4	VALERIE L WAGNER, ET AL	921	464
25	10*15752	X	9-15-3	KIM O CHAMBERS AND DEBRA CHAMBERS, ET AL	906	258

FILE NO. 8655P16HUR7.dwg
 TEN HIGH 1S-16HU Rev4

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