

**TEN HIGH 1S LEASE
UTICA UNIT - 328.13 AC. ±
WELL 14HU
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. 478,158.76	E. 1,636,733.80
NAD'83 GEO.	LAT-(N) 39.806801	LONG-(W) 80.680967
NAD'83 UTM (M)	N. 4,406,363.07	E. 527,309.20

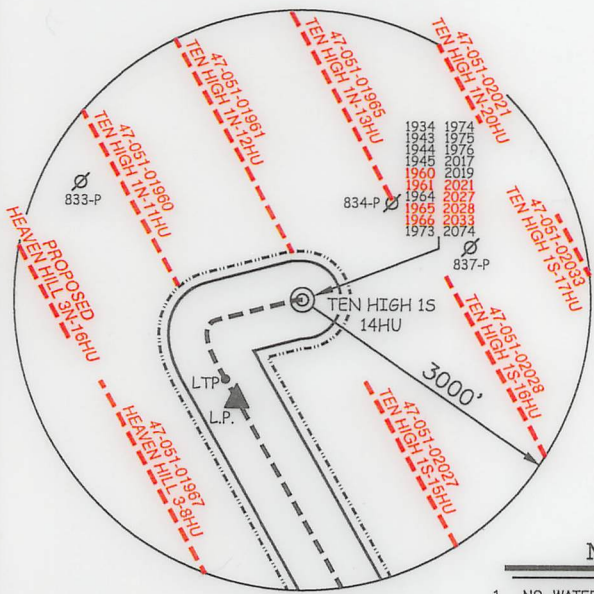
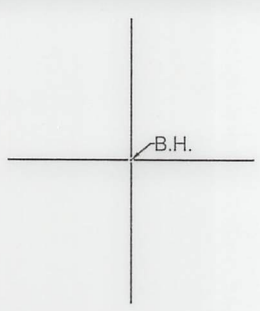
LANDING POINT

NAD'83 S.P.C.(FT)	N. 477,129.6	E. 1,636,050.8
NAD'83 GEO.	LAT-(N) 39.803951	LONG-(W) 80.683349
NAD'83 UTM (M)	N. 4,406,046.0	E. 527,106.4

BOTTOM HOLE

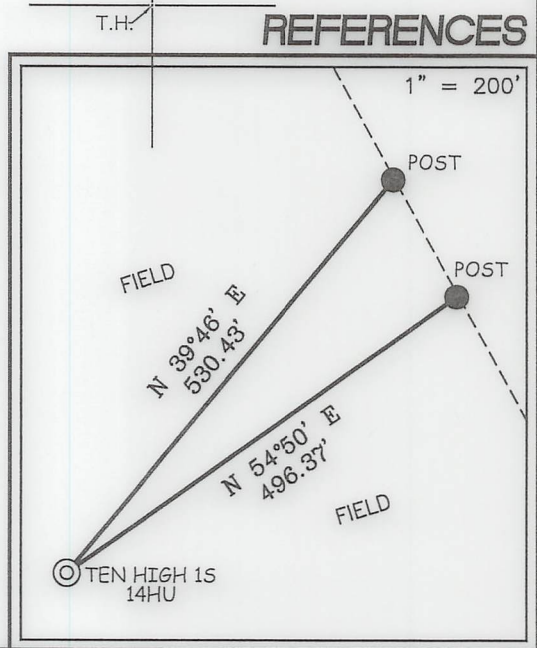
NAD'83 S.P.C.(FT)	N. 468,971.9	E. 1,640,646.1
NAD'83 GEO.	LAT-(N) 39.781722	LONG-(W) 80.666617
NAD'83 UTM (M)	N. 4,403,584.1	E. 528,547.9

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"
3,622' B.H.
9,665' T.H.



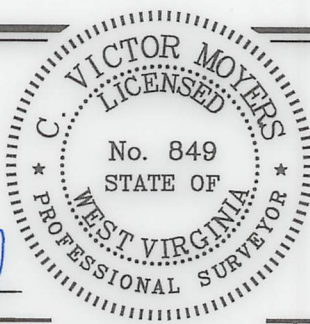
NOTES ON SURVEY

- 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-14HU (47-051-01966) IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF THE FOLLOWING:
HEAVEN HILL 3-6HU (47-051-01968),
HEAVEN HILL 3-7HU (47-051-01969),
HEAVEN HILL 3-8HU (47-051-01967),
HEAVEN HILL 3-10HU (47-051-02016),
PROPOSED HEAVEN HILL 3N-15HU,
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-15HU (47-051-02027),
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 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slsvv.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 14, 20 17
REVISED 01/12/18, 03/22/18, 04/05/18, 10/01/19, 11/12/19, 07/08/20
OPERATORS WELL NO. TEN HIGH 1S-14HU
API WELL NO. 47 - 051 - 01966 *Med*
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P14HUR6.dwg
TEN HIGH 1S-14HU 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 INJECTION WASTE DISPOSAL "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: GROUND = 1,322.30' 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: 21,605'

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

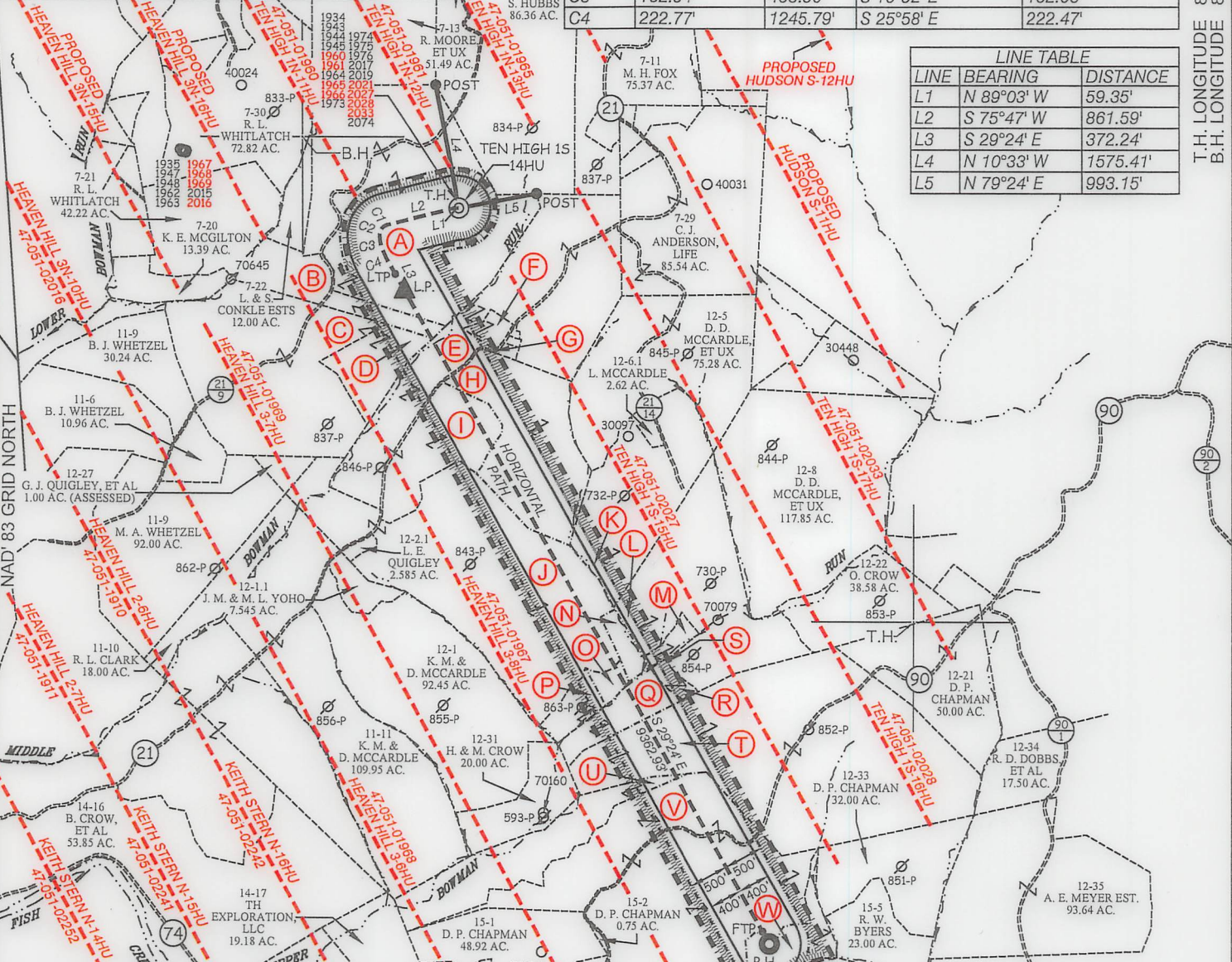
COUNTY NAME
PERMIT

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UTICA UNIT - 328.13 AC. ±
WELL 14HU
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T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°47'30"

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	85.10'	129.73'	S 57°48' W	83.59'
C2	96.33'	162.55'	S 17°21' W	94.92'
C3	162.94'	458.50'	S 10°52' E	162.08'
C4	222.77'	1245.79'	S 25°58' E	222.47'

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 89°03' W	59.35'
L2	S 75°47' W	861.59'
L3	S 29°24' E	372.24'
L4	N 10°33' W	1575.41'
L5	N 79°24' E	993.15'



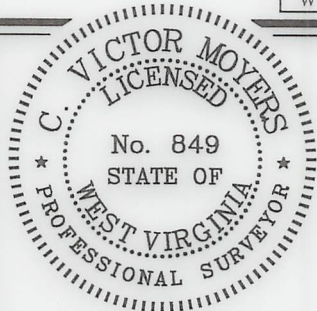
TAG	SURFACE OWNER	PARCEL	ACRES
A	LAWRENCE & SHIRLEY CONKLE ESTS	9-7-24	139.79
B	LARRY J. WHETZEL, ET UX	9-7-23	36.00
C	BRENDA J. WHETZEL	9-11-7	82.85
D	BRENDA J. WHETZEL	9-11-7.1	17.81
E	THOMAS R. & KIMBERLY WHITFIELD	9-7-25.2	76.40
F	THOMAS R. & KIMBERLY WHITFIELD	9-7-25.1	4.23
G	THOMAS R. & KIMBERLY WHITFIELD	9-7-25	0.83
H	THOMAS R. & KIMBERLY WHITFIELD	9-12-4	54.02

TAG	SURFACE OWNER	PARCEL	ACRES
I	WNEK FAMILY IRREVOCABLE TR	9-11-8	50.10
J	GERALD W. QUIGLEY, ET AL	9-12-2	139.79
K	DONALD DALE MCCARDLE, ET UX	9-12-6	53.38
L	DONALD DALE MCCARDLE, ET UX	9-12-7	53.00
M	ROBERT MCCARDLE, ET UX	9-12-29	7.50
N	TAMMY L. MITCHELL	9-12-25	5.00
O	MYRTLE ELIZABETH GARTEN	9-12-28	4.00
P	MYRTLE ELIZABETH GARTEN	9-12-30	7.26
Q	GARY L. DOBBS	9-12-37	20.00
R	MICHAEL J. GUNTO, ET UX	9-12-23	10.00
S	EVERETT F. MOORE HEIRS	9-12-24	70.00
T	DAVID P. CHAPMAN	9-12-32	150.00
U	MYRTLE ELIZABETH GARTEN	9-14-18	20.00
V	SUSAN VAN DYNE	9-15-3	167.00
W	ROBERT FRANK KOTSON, ET AL	9-15-4	26.40



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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. 8655P14HUR6.dwg
TEN HIGH 1S-14HU Rev4
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API WELL NO. 47 - 051 - 01966
NO. STATE COUNTY PERMIT

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



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

DESIGNATED AGENT DIANNA STAMPER
ADDRESS 5400 D BIG TYLER ROAD
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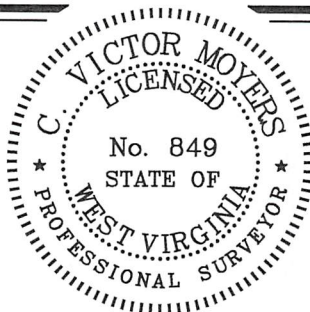
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No.	Lease Name or No.	Tag	Parcel	Grantors, Lessors, etc.	Deed Book/Page	
1	10*15662	A	9-7-24	LARRY LEE CONKLE, ET AL	863	354
2	10*15746	B	9-7-23	BRUCE D SCHURR, ET AL	921	478
3	10*15746	C	9-11-7	BRUCE D SCHURR, ET AL	921	478
4	10*15746	D	9-11-7.1	BRUCE D SCHURR, ET AL	921	478
5	10*15481	E	9-7-25.2	DEAN P RIGBY AND SUSAN RIGBY, ET AL	908	197
6	10*47051.303.1	F	9-7-25.1	THOMAS R WHITFIELD, ET AL	890	401
7	10*47051.303.1	G	9-7-25	THOMAS R WHITFIELD, ET AL	890	401
8	10*15481	H	9-12-4	DEAN P RIGBY AND SUSAN RIGBY, ET AL	908	197
9	10*15481	I	9-11-8	DEAN P RIGBY AND SUSAN RIGBY, ET AL	908	197
10	10*15606	J	9-12-2	CHK-MAC LLC, ET AL	798	150
11	10*47051.222.1	K	9-12-6	DONALD D MCCARDLE AND LUCY MCCARDLE	879	314
12	10*16056	L	9-12-7	JEFFREY A LAUSIN AND KATHLEEN R LAUSIN, ET AL	942	443
13	10*15484	M	9-12-29	LISA R IMHOFF AND CHAD IMHOFF, ET AL	913	552
14	10*17831	N	9-12-25	TAMMY L MITCHELL AND ADAM J MITCHELL	921	131
15	10*16145	O	9-12-28	CHARLES STEVEN JOHNSON AND SHIRLEY LOUISE JOHNSON, ET AL	924	612
16	10*15461	P	9-12-30	SANDRA SUE HALL AND DAVID HALL, ET AL	905	622
17	10*47051.312.0	Q	9-12-37	JAN GRIMES SIMNACHER LEONARD A SIMNACHER	904	472
18	10*47051.311.0	R	9-12-23	MICHAEL J GUNTO AND ROSEMARY GUNTO	905	16
19	10*19724	S	9-12-24	VENABLE ROYALTY LTD A TEXAS LIMITED PARTNERSHIP	935	216
20	10*47051.140.1	T	9-12-32	DAVID P CHAPMAN & DEBORAH BORCK-CHAPMAN, ET AL	866	318
21	10*15477	U	9-14-18	RONALD A WYCINSKI, ET AL	906	241
22	10*15752	V	9-15-3	KIM O CHAMBERS AND DEBRA CHAMBERS, ET AL	906	258
23	10*16402	W	9-15-4	VALERIE L WAGNER, ET AL	921	464

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