

**TEN HIGH 1S LEASE
UTICA UNIT - 303.40 AC±
WELL 17HU
TUG HILL OPERATING**

B.H.

9,443' B.H.

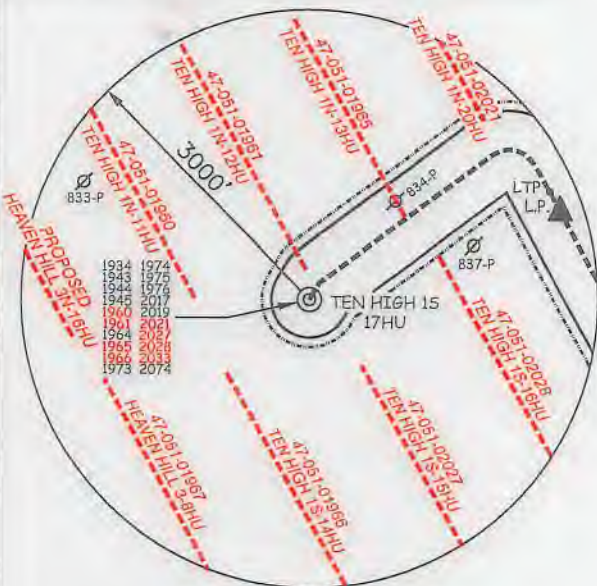
3,981' T.H.

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. 478,149.83 | E. 1,636,770.22 | |
| NAD'83 GEO. | LAT-(N) 39.806778 | LONG-(W) 80.680837 | |
| NAD'83 UTM (M) | N. 4,406,360.53 | E. 527,320.34 | |
| <u>LANDING POINT</u> | | | |
| NAD'83 S.P.C.(FT) | N. 479,052.8 | E. 1,639,379.1 | |
| NAD'83 GEO. | LAT-(N) 39.809350 | LONG-(W) 80.671593 | |
| NAD'83 UTM (M) | N. 4,406,648.9 | E. 528,110.5 | |
| <u>BOTTOM HOLE</u> | | | |
| NAD'83 S.P.C.(FT) | N. 472,540.4 | E. 1,642,943.5 | |
| NAD'83 GEO. | LAT-(N) 39.791600 | LONG-(W) 80.658607 | |
| NAD'83 UTM (M) | N. 4,404,683.0 | E. 529,229.6 | |

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"

9,674' T.H.



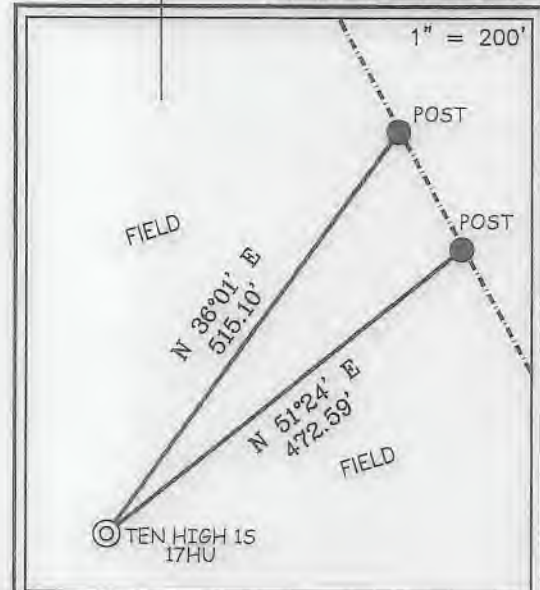
NOTES ON SURVEY

- 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-17HU (47-051-02033) 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-16HU (47-051-02028),
TEN HIGH 1N-20HU (47-051-02021),
PROPOSED HUDSON S-11HU,
PROPOSED HUDSON S-12HU.



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5554
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
sllsv.com

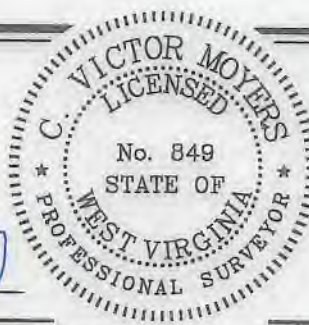
REFERENCES



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.
849

C. Victor Moyers



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE AUGUST 29, 20 17
REVISED 01/15/18, 02/15/19, 09/18/19, 11/12/19, 07/08/20
OPERATORS WELL NO. TEN HIGH 1S-17HU
API WELL NO. 47 - 051 - 02033
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P17HUR6.dwg
TEN HIGH 1S-17HU Rev7
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 IF "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: 11,927' / TMD: 20,410'

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

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

COUNTY NAME

PERMIT

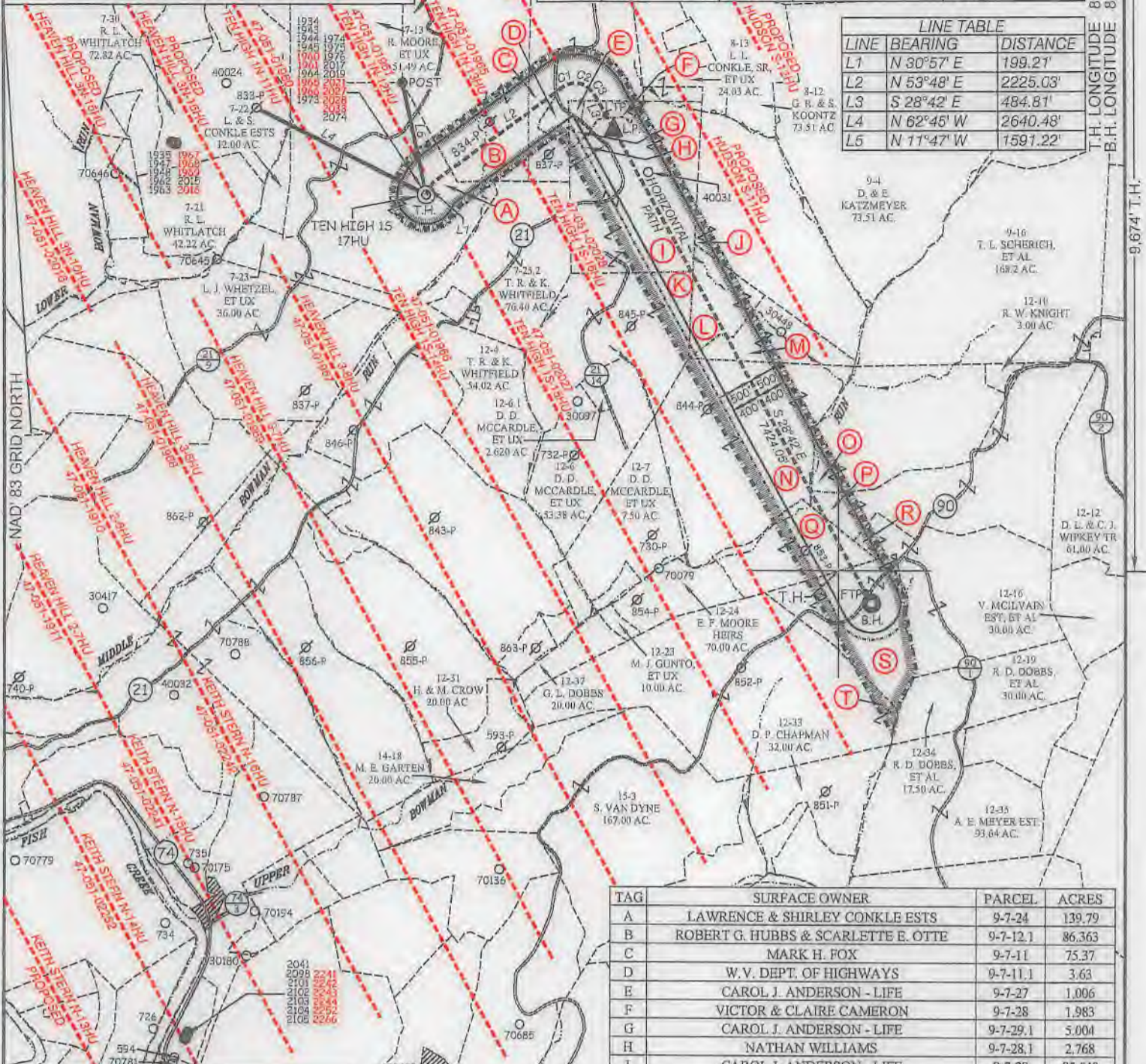
TEN HIGH 1S LEASE
UTICA UNIT - 303.40 AC±
WELL 17HU
TUG HILL OPERATING

9,443' B.H. 3,981' T.H.

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

| CURVE | ARC LENGTH | RADIUS | CHORD BEARING | CHORD LENGTH |
|-------|------------|---------|---------------|--------------|
| C1 | 173.12' | 354.47' | N 69°54' E | 171.40' |
| C2 | 214.51' | 276.77' | S 71°51' E | 209.18' |
| C3 | 192.66' | 493.63' | S 38°11' E | 191.44' |

| LINE | BEARING | DISTANCE |
|------|------------|----------|
| L1 | N 30°57' E | 199.21' |
| L2 | N 53°48' E | 2225.03' |
| L3 | S 28°42' E | 484.81' |
| L4 | N 62°45' W | 2640.48' |
| L5 | N 11°47' W | 1591.22' |



| TAG | SURFACE OWNER | PARCEL | ACRES |
|-----|-------------------------------------|----------|--------|
| A | LAWRENCE & SHIRLEY CONKLE ESTS | 9-7-24 | 139.79 |
| B | ROBERT G. HUBBS & SCARLETTE E. OTTE | 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 | CAROL J. ANDERSON - LIFE | 9-7-27 | 1.006 |
| F | VICTOR & CLAIRE CAMERON | 9-7-28 | 1.983 |
| G | CAROL J. ANDERSON - LIFE | 9-7-29.1 | 5.004 |
| H | NATHAN WILLIAMS | 9-7-28.1 | 2.768 |
| I | CAROL J. ANDERSON - LIFE | 9-7-29 | 85.540 |
| J | CONSOLIDATION COAL COMPANY | 9-9-3 | 84.50 |
| K | DONALD DALE MCCARDLE, ET UX | 9-9-2 | 21.11 |
| L | DONALD DALE MCCARDLE, ET UX | 9-12-5 | 75.28 |
| M | DONALD DALE MCCARDLE, ET UX | 9-9-1 | 20.89 |
| N | DONALD DALE MCCARDLE, ET UX | 9-12-8 | 117.85 |
| O | CHARLES WILLIAM DOBBE, ET AL. | 9-12-9 | 82.26 |
| P | WARREN B. CHAMBERS, ET UX | 9-12-11 | 91.00 |
| Q | OLIVER CROW | 9-12-22 | 38.58 |
| R | RONALD EUGENE DOBBES, ET UX | 9-12-20 | 91.00 |
| S | DAVID P. CHAPMAN | 9-12-21 | 50.00 |
| T | DAVID P. CHAPMAN | 9-12-32 | 150.00 |

SLS
FROM THE GROUND UP

12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304-462-5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304-346-2952
254 East Beckley Bypass | Beckley, WV 25801 | 304-255-5296
slsvv.com

P.S. 849 *C. Victor Moyers*

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| LANDING POINT | | | |
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| NAD83 UTM (M) | N. 4,406,646.9 | E. 528,110.5 | |
| BOTTOM HOLE | | | |
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(+) 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. 8656P17HUR6.dwg
TEN HIGH 1S-17HU Rev7
DATE AUGUST 29, 2017
REVISED 01/15/18, 02/15/19, 09/18/19, 11/12/19, 07/08/20
OPERATORS WELL NO. TEN HIGH 1S-17HU
API WELL NO. 47-051-02033 MOD
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
CT CORPORATION SYSTEM
ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

25' B.H. 9,674' T.H. T.H. LONGITUDE 80°40'00" B.H. LONGITUDE 80°37'30"

TEN HIGH 1S LEASE
 UTICA UNIT - 303.40 AC ±
 WELL 17HU
 TUG HILL OPERATING



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 slsvv.com

| 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*15524 | E | 9-7-27 | CAROL J ANDERSON ETAL | 901 563 |
| 6 | 10*19143 | F | 9-7-28 | VICTOR CAMERON CLAIRE CAMERON | 872 171 |
| 7 | 10*15524 | G | 9-7-29.1 | CAROL J ANDERSON ETAL | 901 563 |
| 8 | 10*19183 | H | 9-7-28.1 | EVELYN M WILLIAM | 720 180 |
| 9 | 10*15524 | I | 9-7-29 | CAROL J ANDERSON ETAL | 901 563 |
| 10 | 10*47051.304.0 | J | 9-9-3 | UNITED BANK INC | 905 5 |
| 11 | 10*23386 | K | 9-9-2 | UNK HEIRS OF EDITH CARMICHAEL BY HERMAN LANTZ, ESQ AS SPEC COMMISSIONER | 1008 68 |
| 12 | 10*47051.222.1 | L | 9-12-5 | DONALD D MCCARDLE AND LUCY MCCARDLE | 879 314 |
| 13 | 10*23386 | M | 9-9-1 | UNK HEIRS OF EDITH CARMICHAEL BY HERMAN LANTZ, ESQ AS SPEC COMMISSIONER | 1008 68 |
| 14 | 10*47051.289.1 | N | 9-12-8 | JANICE M HIXSON AND HARRY C HIXSON | 898 461 |
| 15 | 10*47051.289.2 | N | 9-12-8 | KENNETH D MCMECHEN | 898 463 |
| 16 | 10*15999 | O | 9-12-9 | CHARLES W DOBBS AND JUDITH M DOBBS | 702 171 |
| 17 | 10*16000 | O | 9-12-9 | DAVID J KLUKAS ET UX | 702 175 |
| 18 | 10*16001 | O | 9-12-9 | MARLENE D GARIN | 702 173 |
| 19 | 10*15494 | P | 9-12-11 | CHRISTOPHER SINGER AND SHEREA SINGER, ET AL | 898 433 |
| 20 | 10*15474 | Q | 9-12-22 | CLARK C SAMPSON, ET AL | 907 495 |
| 21 | 10*24679 | R | 9-12-20 | PIKEWOOD ENERGY CORPORATION AN OHIO CORPORATION, ET AL | 1026 149 |
| 22 | 10*47051.140.1 | S | 9-12-21 | DAVID P CHAPMAN & DEBORAH BORCK-CHAPMAN, ET AL | 866 318 |
| 23 | 10*47051.140.1 | T | 9-12-32 | DAVID P CHAPMAN & DEBORAH BORCK-CHAPMAN, ET AL | 866 318 |

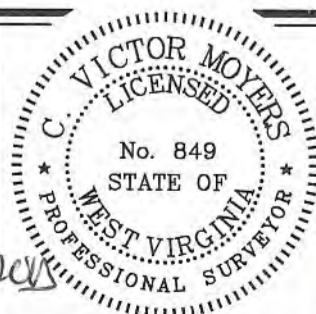
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OPERATORS WELL NO. TEN HIGH 1S-17HU

API WELL NO. 47 — 051 — 02033
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 DIVISION OF
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