

**TEN HIGH 1N LEASE  
UTICA UNIT - 537.97 AC±  
WELL 11HU  
TUG HILL OPERATING**

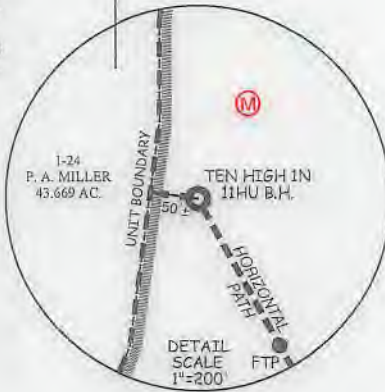
LATITUDE 39°50'00"

LONGITUDE 80°40'00"

9,688' 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 1N-11HU (47-051-01960) 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 3N-10HU (47-051-02016),  
PROPOSED HEAVEN HILL 3N-15HU,  
PROPOSED HEAVEN HILL 3N-16HU,  
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 1S-17HU (47-051-02033),  
TEN HIGH 1N-20HU (47-051-02021).



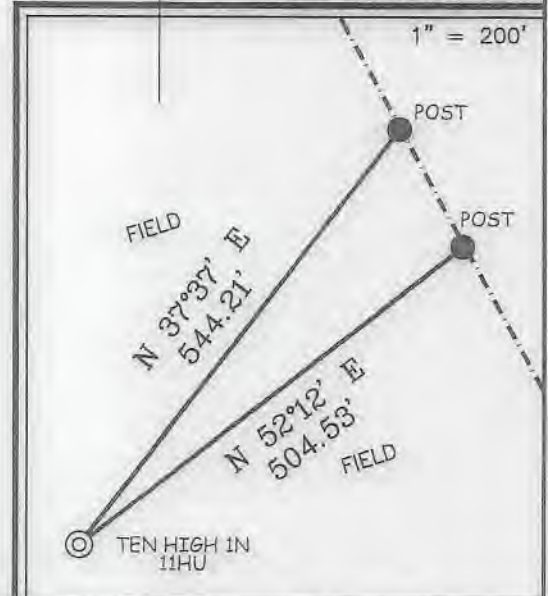
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'83 S.P.C.(FT)	N. 478,135.39	E. 1,636,740.94
NAD'83 GEO.	LAT-(N) 39.806737	LONG-(W) 80.680940
NAD'83 UTM (M)	N. 4,406,355.98	E. 527,311.49
<b>LANDING POINT</b>		
NAD'83 S.P.C.(FT)	N. 478,310.3	E. 1,635,442.0
NAD'83 GEO.	LAT-(N) 39.807170	LONG-(W) 80.685572
NAD'83 UTM (M)	N. 4,406,402.7	E. 526,914.9
<b>BOTTOM HOLE</b>		
NAD'83 S.P.C.(FT)	N. 486,117.2	E. 1,631,103.9
NAD'83 GEO.	LAT-(N) 39.828443	LONG-(W) 80.701384
NAD'83 UTM (M)	N. 4,408,759.0	E. 525,553.5

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-1-13.1	BURDETTE L. BEUCKE	14.236
9-1-13.3	CNX LAND LLC	8.127
9-1-13.4	MACK L. CROW	4.273
9-1-13.5	MACK L. CROW	2.491
9-1-13.6	GERALD E. LOGSDON, ET UX	7.621
9-1-13.7	SHARON D. TUCKER	7.817
9-5-5.1	DAVID M. TOLER, ET UX	0.985
9-5-6.1	JON B. CRAWFORD	4.679
9-5-6.4	NANCY L. SNYDER	0.694
9-5-6.6	NANCY L. SNYDER	0.420
9-5-6.7	NANCY L. SNYDER	0.678
9-5-6.8	NANCY L. SNYDER	0.691
9-5-10	BETTY R. OTT	0.933
9-5-20	KEITH WILSON - DONALD E. LEACH (LIFE ESTATE)	6.924
9-5-21	RALPH E. WELLMAN, ET UX	1.00
9-5-22	RALPH E. WELLMAN, ET UX	0.5
9-5-23	RALPH E. WELLMAN, ET UX	1.00
9-5-24	ALVIE & MARCELLA DARRAH	1.986

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	RONALD MOORE, ET UX	9-7-12	16.587
D	LAWRENCE & SHIRLEY CONKLE ESTS	9-7-22	12.00
E	RICKY L. WHITLATCH	9-7-30	72.82
F	ANDREW COREY WHITLATCH	9-7-30.1	4.55
G	RONALD MOORE, ET UX	9-7-13	51.49
H	RICKY L. WHITLATCH	9-7-15	7.54
I	ARNIE GOODNIGHT, ET UX	9-7-14	39.55
J	TERESA L. HORNER WITH JERRY G. & CAROLYN K. FLETCHER (LIFE ESTATE)	9-7-6	103.30
K	ARNIE GOODNIGHT, ET UX	9-7-5	62.18
L	HELEN ROBERTSON PAYNE	9-3-3	85.26
M	ELMER ASTON	9-5-4	108.225
N	MICHAEL JOSEPH SNYDER	9-5-5.4	64.00
O	KELLY WILSON WITH DONALD E. LEACH (LIFE ESTATE)	9-5-18	5.807
P	CARLA SUE CROW	9-5-17	6.341
Q	MICHAEL JOSEPH SNYDER	9-5-5	35.02
R	CONSOLIDATION COAL COMPANY	9-5-4.1	22.775
S	MICHAEL JOSEPH SNYDER & NANCY L. SNYDER	9-5-5.3	1.870
T	LINDA GORBY DELBERT	9-5-6.5	1.087
U	DEUTSCHE BANK NATIONAL TRUST CO.	9-5-6.3	1.391
V	PETER PARKER	9-5-5.2	0.873
W	ALICIA JANE MARTIN	9-1-14	2.4602
X	ALICE J. & DOUGLAS J. MARTIN	9-1-14.1	0.905
Y	NANCY L. SNYDER	9-5-6	82.858
Z	MICHAEL JOSEPH SNYDER	9-5-6.2	2.82
AA	BOARD OF EDUCATION	NOT ASSD	NOT ASSD
BB	BOARD OF EDUCATION	NOT ASSD	NOT ASSD
CC	RANDALL A. KEREKES	9-1-13.2	1.518
DD	CNX LAND RESOURCES	NOT ASSD	10+/-

**REFERENCES**



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. *C. Victor Moyers*  
849

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE JULY 21, 2017  
REVISED 01/10/18, 02/08/18, 02/20/18, 03/29/18, 09/26/18, 09/19/19, 10/23/19, 11/12/19, 07/08/20  
OPERATORS WELL NO. TEN HIGH 1N-11HU  
API WELL NO. 47 - 051 - 01960  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8655P11HUR10.dwg  
TEN HIGH 1N 11HU Rev9  
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 = 1,321.10' 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 LARRY LEE CONKLE, 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: 21,195'

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

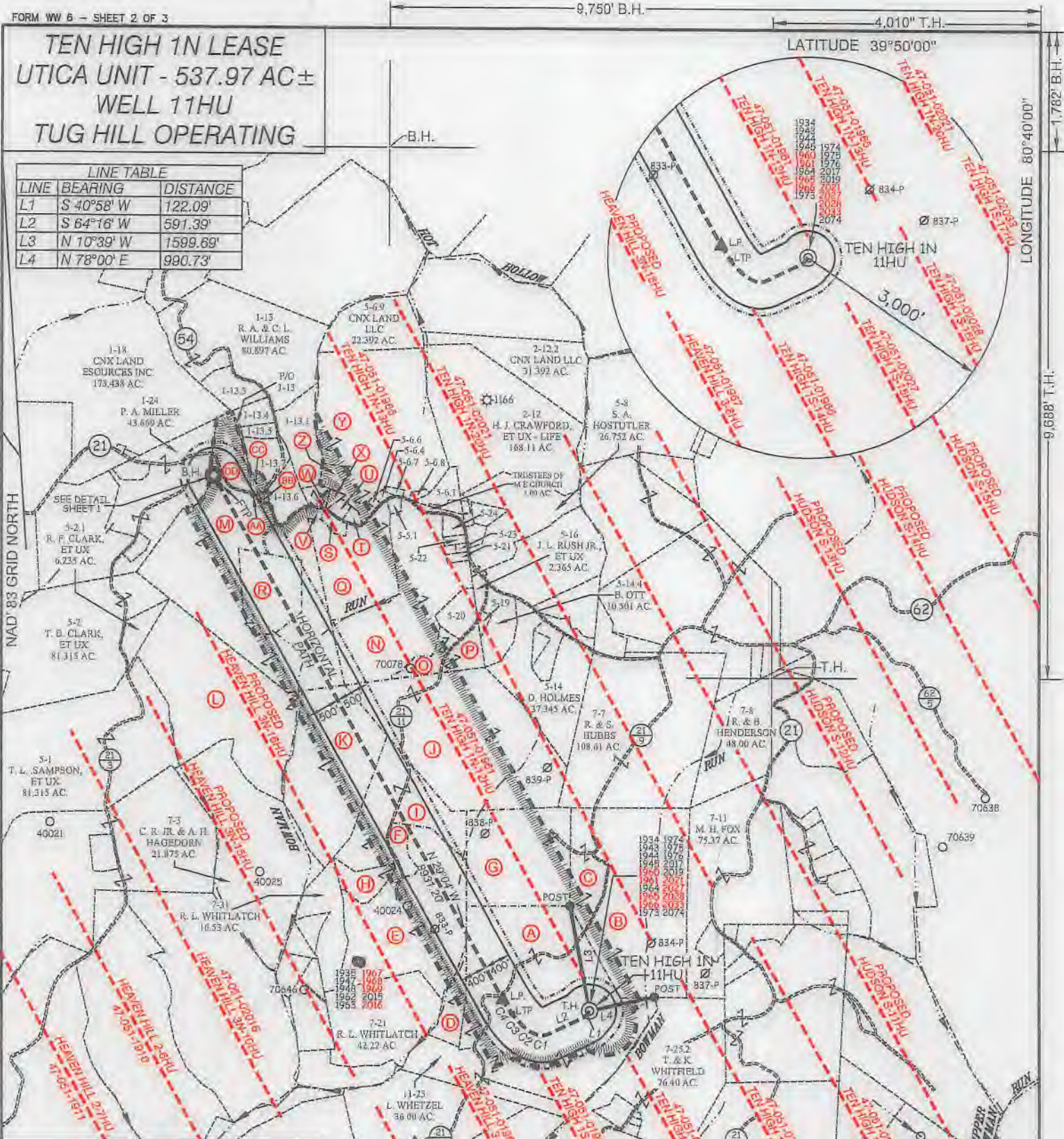
COUNTY NAME PERMIT



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UTICA UNIT - 537.97 AC±  
WELL 11HU  
TUG HILL OPERATING**

**LINE TABLE**

LINE	BEARING	DISTANCE
L1	S 40°58' W	122.09'
L2	S 64°16' W	591.39'
L3	N 10°39' W	1599.69'
L4	N 78°00' E	990.73'



NAD'83 GRID NORTH

LONGITUDE 80°40'00"

9,688' T.H.

COUNTY NAME

PERMIT



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1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952  
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
slsvv.com

**CURVE TABLE**

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	188.38'	246.91'	S 87°45' W	183.84'
C2	183.64'	504.97'	N 60°08' W	182.63'
C3	253.98'	1200.49'	N 43°36' W	253.51'
C4	307.59'	1990.90'	N 33°25' W	307.29'

P.S. 849 *C. Victor Moyers*



(+) 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. 8655P11HUR10.dwg  
DATE JULY 21, 2017  
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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



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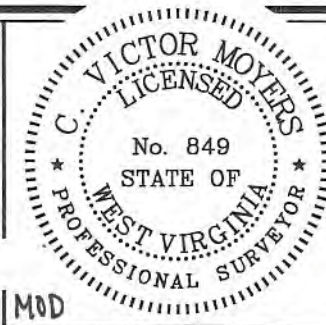
slswv.com

No.	Lease Name or No.	Tag	Parcel	Grantors, Lessors, etc.	Deed Book/Page
1	10*15562	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*15501	C	9-7-12	RONALD AND EDNA MOORE	661 449
4	10*15486	D	9-7-22	RICHARD NEAL NORRIS AND CAROL NORRIS, ET AL	905 430
5	10*15557	E	9-7-30	RICKY L WHITLATCH ET AL	780 226
6	10*15557	F	9-7-30.1	RICKY L WHITLATCH ET AL	780 226
7	10*15501	G	9-7-13	RONALD AND EDNA MOORE	661 449
8	10*15557	H	9-7-15	RICKY L WHITLATCH ET AL	780 226
9	10*15558	I	9-7-14	ARNIE AND BOBBIE B GOODNIGHT	777 59
10	10*15500	J	9-7-6	JERRY FLETCHER AND CAROLYN FLETCHER, HUSBAND AND WIFE	661 154
11	10*15502	J	9-7-6	SHERWOOD YEATER	748 268
12	10*15558	K	9-7-5	ARNIE AND BOBBIE B GOODNIGHT	777 59
13	10*21588	L	9-5-3	LAWRENCE ALLEN WAYT, ET AL	687 233
14	10*15481	M	9-5-4	DEAN P RIGBY AND SUSAN RIGBY, ET AL	908 197
15	10*15481	N	9-5-5.4	DEAN P RIGBY AND SUSAN RIGBY, ET AL	908 197
16	10*15481	O	9-5-18	DEAN P RIGBY AND SUSAN RIGBY, ET AL	908 197
17	10*15481	P	9-5-17	DEAN P RIGBY AND SUSAN RIGBY, ET AL	908 197
18	10*15481	Q	9-5-5	DEAN P RIGBY AND SUSAN RIGBY, ET AL	908 197
19	10*15482	R	9-5-4.1	SUSAN NELSON, ET AL	908 203
20	10*15482	S	9-5-5.3	SUSAN NELSON, ET AL	908 203
21	10*16448	T	9-5-6.5	RALPH L AND JUANITA L CRIM, ET AL	908 584
22	10*16448	U	9-5-6.3	RALPH L AND JUANITA L CRIM, ET AL	908 584
23	10*15482	V	9-5-5.2	SUSAN NELSON, ET AL	908 203
24	10*16448	W	9-1-14	RALPH L AND JUANITA L CRIM, ET AL	908 584
25	10*16448	X	9-1-14.1	RALPH L AND JUANITA L CRIM, ET AL	908 584
26	10*16448	Y	9-5-6	RALPH L AND JUANITA L CRIM, ET AL	908 584
27	10*16448	Z	9-5-6.2	RALPH L AND JUANITA L CRIM, ET AL	908 584
28	10*24536	AA	NOT ASSD	MARSHALL COUNTY BOARD OF EDUCATION	1026 67
29	10*24536	BB	NOT ASSD	MARSHALL COUNTY BOARD OF EDUCATION	1026 67
30	10*15482	CC	9-1-13.2	SUSAN NELSON, ET AL	908 203
31	10*21695	DD	NOT ASSD	ROBERT A WILLIAMS & CHERLY L WILLIAMS	947 521

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