

**OLD CROW N LEASE
UTICA UNIT - 494.33 AC±
WELL 17HU
TUG HILL OPERATING**

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

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

NAD'83 S.P.C.(FT) N. 468,139.24 E. 1,613,525.64
NAD'83 GEO. LAT-(N) 39.778430 LONG-(W) 80.763067
NAD'83 UTM (M) N. 4,403,192.43 E. 520,289.72

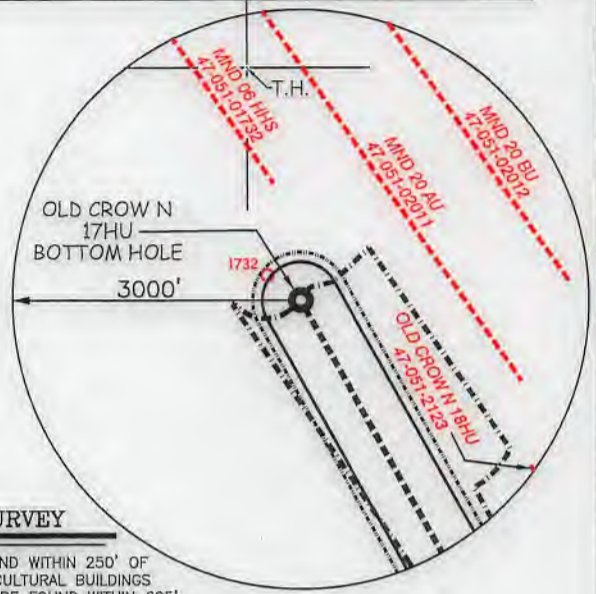
LANDING POINT

NAD'83 S.P.C.(FT) N. 468,471.2 E. 1,613,749.9
NAD'83 GEO. LAT-(N) 39.779350 LONG-(W) 80.762286
NAD'83 UTM (M) N. 4,403,294.7 E. 520,356.4

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 462,294.4 E. 1,606,073.6
NAD'83 GEO. LAT-(N) 39.816996 LONG-(W) 80.790303
NAD'83 UTM (M) N. 4,407,466.9 E. 517,947.4

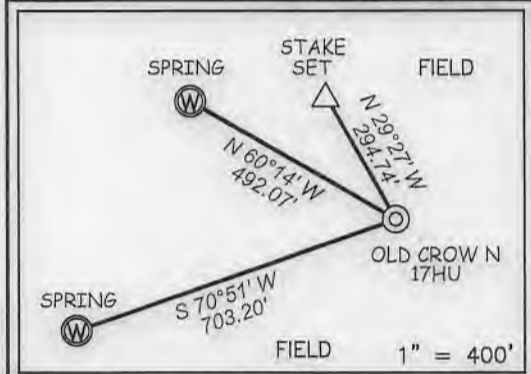
TAG	SURFACE OWNER	PARCEL	ACRES
A	JOHN SWIERKOS	5-16-25	79.04
B	DONNA VIVIAN YOHO - TOD	5-16-3	71.205
C	JOHN SWIERKOS	5-16-5	52.07
D	JOHN SWIERKOS	5-10-14	100.00
E	JIMMY OSTRANDER, SR., ET UX	5-16-3.2	1.435
F	PAUL ANDREW & DEBRA A. RINE	5-10-15	120.80
G	DONALD T. MILLER	5-10-15.1	2.095
H	TIMOTHY SR. & LINDA MCGINNIS	5-10-16	30.87
I	MELVIN E. JR., & ELIZABETH FERGUSON	5-10-16.4	30.87
J	WILLIAM A. PRASCIK, ET AL	5-10-2	52.00
K	ALVIN A. YODER	5-10-17	57.28
L	WESLEY R. BRYAN & WESLEY R. BRYAN, II	5-11-11.2	25.03
M	ALVIN A. YODER	5-11-10	31.91
N	JACK S. HUGGINS, ET UX	5-11-9.4	4.129
O	JACK SHEPARD HUGGINS, JR., ET AL	5-11-9.1	10.92
P	EDWIN C. MILLER	5-10-1	49.96
Q	SEAN F. MOORE	5-11-9.7	2.03
R	EDWIN C. & KIMBERLY A. MILLER	5-11-9	54.625
S	SEAN F. MOORE	5-11-9.8	2.070
T	JAMES M. & ROBERT L. STERN	5-9-29	3.1777
U	TRUSTEES OF LIGHTHOUSE TABERNACLE CHURCH	5-9-30.2	1.954
V	JOHN D. & MARSHA J. ROBERTS	5-9-38.6	0.719
W	JOHN D. & MARSHA J. ROBERTS	5-9-38.7	0.795
X	JOHN D. & MARSHA J. ROBERTS	5-9-38.5	0.619
Y	JOHN D. & MARSHA J. ROBERTS	5-9-38.4	0.669
Z	FISH CREEK-WV DIVISION OF NATURAL RESOURCES	N/A	N/A
AA	DAVID ARRICK, ET UX	5-11-4	31.5
BB	SHELVA G. SMITH, ET UX	5-9-38.3	0.706
CC	SHELVA G. SMITH, ET UX	5-9-38.2	0.735
DD	JOHN H. LONG, ET UX	5-9-38.1	0.815
EE	ROBERT S. COWGILL	5-9-38.10	0.920
FF	DALISON LUMBER COMPANY	5-9-31	32.10
GG	JOHN D. ROBERTS, ET UX	5-9-38.8	0.903
HH	JOHN D. ROBERTS, ET UX	5-9-38.9	1.017
II	SHIRLEY A. HILL ESTATE	5-9-38	3.331
JJ	FRANK T. & ANNA M. WALKER	5-9-37	10.857
KK	RUBY M. HENRY ESTATE (C/O GEORGE E. HENRY)	5-9-32.4	0.379
LL	JOHN DRAKE ALBAUGH	5-9-32.12	1.09
MM	JOHN DRAKE ALBAUGH	5-9-32.1	1.002
NN	JOHN DRAKE ALBAUGH	5-9-32.2	0.231
OO	RUBY M. HENRY ESTATE (C/O GEORGE E. HENRY)	5-9-32.6	0.474
PP	JOHN D. ALBAUGH	5-9-32.13	0.848
QQ	JOHN D. ALBAUGH	5-9-32.7	0.729
RR	SANDRA J. BONETTE	5-9-32	2.321
SS	JAMES EDWARD FRANCIS, ET UX	5-8-8	28.3
TT	JAMES B. JACKSON, JR., ET UX	5-8-9	89.723
UU	EDWIN C. MILLER	5-8-7	180.31
VV	RICHARD L. GATTS (LIFE)	5-8-5	97.819
WW	WAYNE C. BERISFORD	5-8-4	23.355
XX	JARED C. SELLS	5-8A-35	2.78
YY	JOHN F. ARRUDA, ET UX	5-5-4.1	1.399
ZZ	TAMMY L. MITCHELL	5-8-3	35.07
A1	ROBERT L. & DONALD SHIELDS	5-8-23	48 POLES
A2	BOARD OF EDUCATION	5-8A-14	137 9/2 RODS
A3	LETHA I. RUCKMAN	5-8A-13	2.993
A4	MARY D. RUCKMAN	5-8A-12	1.137



NOTES ON SURVEY

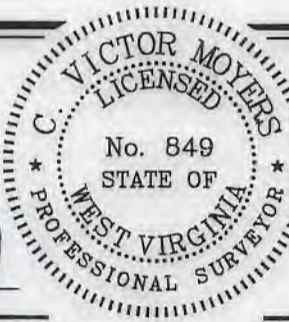
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1"=2000'
- PROPOSED LATERAL OR TOP HOLE OF OLD CROW N-17HU (47-051-02122) IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF EXISTING WELLS BRYAN N 13HU (47-051-02030), BRYAN N 14HU (47-051-02031), OLD CROW N-18HU (47-051-02123), & PROPOSED OLD CROW N-19HU (47-051-02190), MND 06 HHS (47-051-01732), MND 20AU (47-051-02011), MND 20BU (47-051-02012).

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 OCTOBER 3, 20 18
REVISED 03/05/19, 04/25/19, 05/14/19, 07/24/19, 08/27/19
OPERATORS WELL NO. OLD CROW N-17HU
API WELL NO. 47 - 051 - 02122
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8796P17HUR5.dwg
OLD CROW NORTH 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 LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: GROUND = 1286.73' ELEVATION PROPOSED = 1264.99' WATERSHED TRIBUTARY OF FISH CREEK (HUC-10)
DISTRICT FRANKLIN COUNTY MARSHALL QUADRANGLE POWHATAN POINT 7.5'

SURFACE OWNER DONNA VIVIAN YOHO (TOD) GARY LANCE YOHO ACREAGE 71.205±
ROYALTY OWNER DONNA VIVIAN YOHO, ET AL - SEE ADDITIONAL SHEETS ACREAGE 71.205±

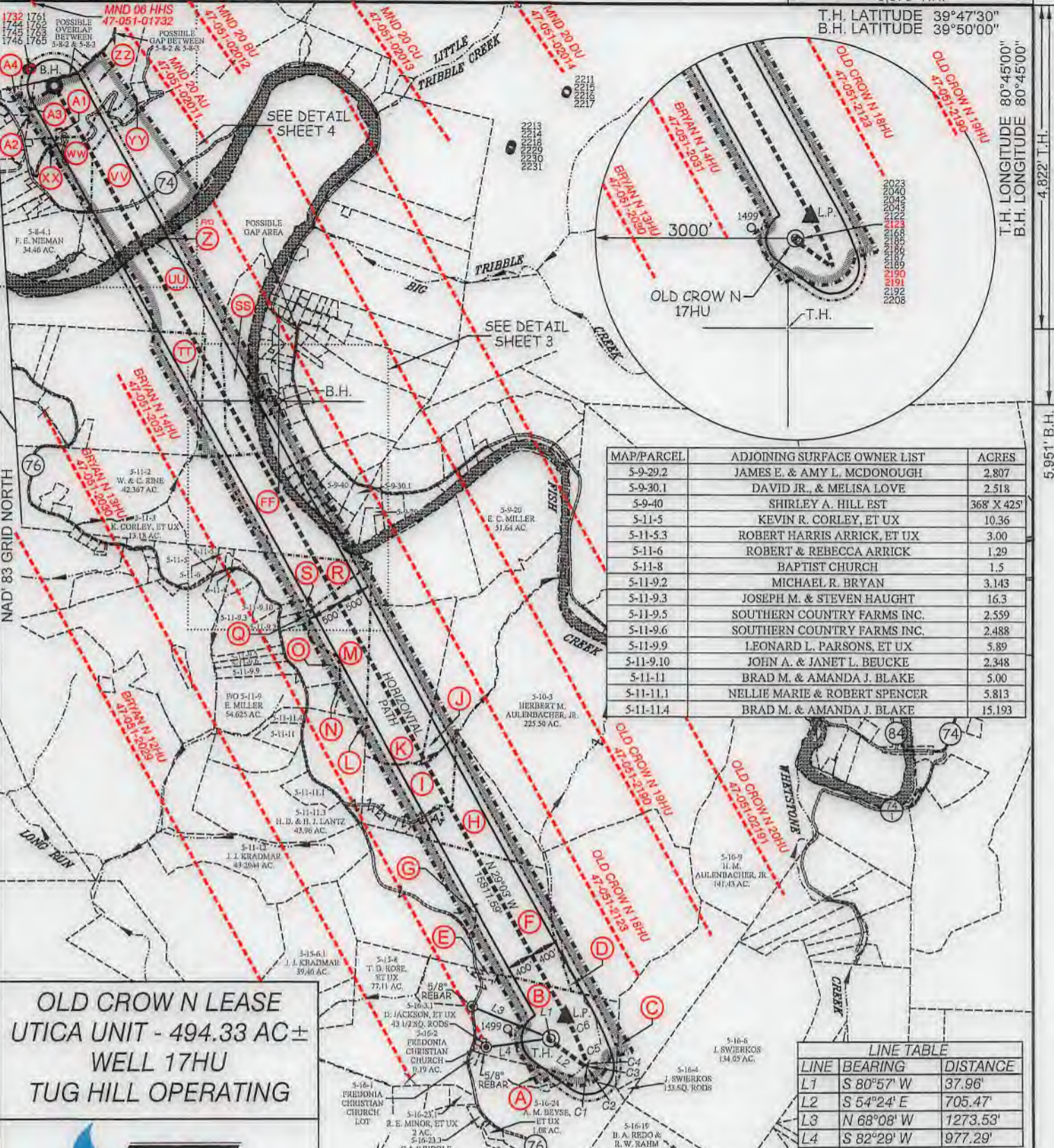
PROPOSED WORK: LEASE NO. SEE ADDITIONAL SHEETS
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION POINT PLEASANT
ESTIMATED DEPTH TVD: 11,592' / TMD: 27,659'

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
CHARLESTON, WV 25313

COUNTY NAME PERMIT



MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
5-9-29.2	JAMES E. & AMY L. MCDONOUGH	2.807
5-9-30.1	DAVID JR., & MELISA LOVE	2.518
5-9-40	SHIRLEY A. HILL EST	368' X 425'
5-11-5	KEVIN R. CORLEY, ET UX	10.36
5-11-5.3	ROBERT HARRIS ARRICK, ET UX	3.00
5-11-6	ROBERT & REBECCA ARRICK	1.29
5-11-8	BAPTIST CHURCH	1.5
5-11-9.2	MICHAEL R. BRYAN	3.143
5-11-9.3	JOSEPH M. & STEVEN HAUGHT	16.3
5-11-9.5	SOUTHERN COUNTRY FARMS INC.	2.559
5-11-9.6	SOUTHERN COUNTRY FARMS INC.	2.488
5-11-9.9	LEONARD L. PARSONS, ET UX	5.89
5-11-9.10	JOHN A. & JANET L. BEUCKE	2.348
5-11-11	BRAD M. & AMANDA J. BLAKE	5.00
5-11-11.1	NELLIE MARIE & ROBERT SPENCER	5.813
5-11-11.4	BRAD M. & AMANDA J. BLAKE	15.193

LINE TABLE		
LINE	BEARING	DISTANCE
L1	S 80°57' W	37.96'
L2	S 54°24' E	705.47'
L3	N 68°08' W	1273.53'
L4	S 82°29' W	977.29'

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	9.12'	16.72'	S 68°45' E	9.01'
C2	7.58'	5.63'	N 43°28' E	7.02'
C3	19.28'	51.10'	N 01°20' W	19.16'
C4	62.62'	479.64'	N 15°00' W	62.57'
C5	259.22'	3170.98'	N 21°33' W	259.14'
C6	476.67'	5125.24'	N 26°36' W	476.49'

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Solutions from the ground up.
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www.slsww.com

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VICTOR MOYERS
LICENSED
No. 849
STATE OF
WEST VIRGINIA
PROFESSIONAL SURVEYOR

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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
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE ADDITIONAL SHEETS)

SCALE 1" = 2000' FILE NO. 8798P17HU5.dwg
DATE OCTOBER 3, 2018
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OFFICE OF OIL AND GAS
MOD

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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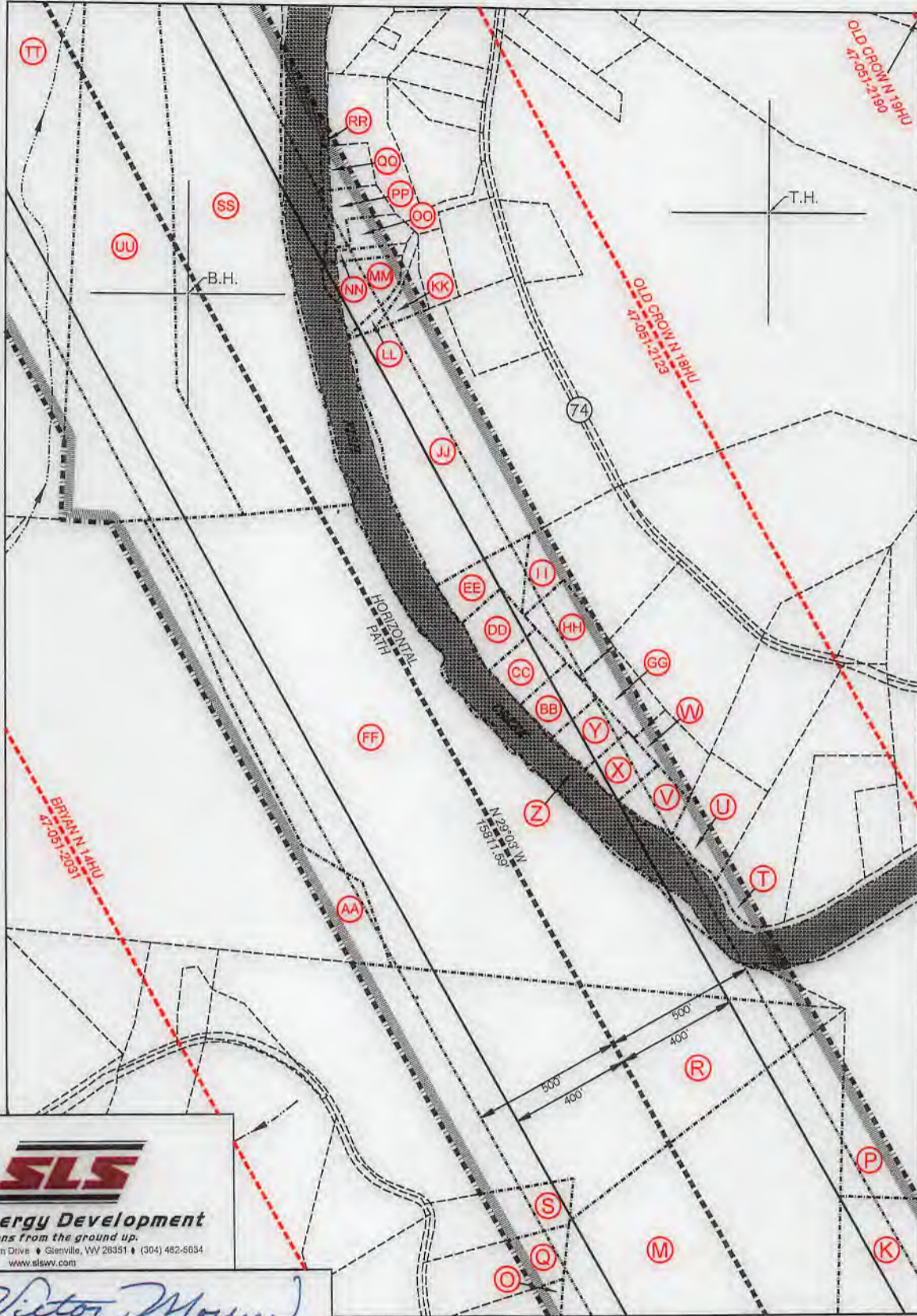
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B.H. LATITUDE 39°50'00"

T.H. LONGITUDE 80°45'00"
B.H. LONGITUDE 80°45'00"

SHEET 2 DETAIL
SCALE - 1" = 500'

NAD '83 GRID NORTH



5,951' B.H.

4,822' T.H.



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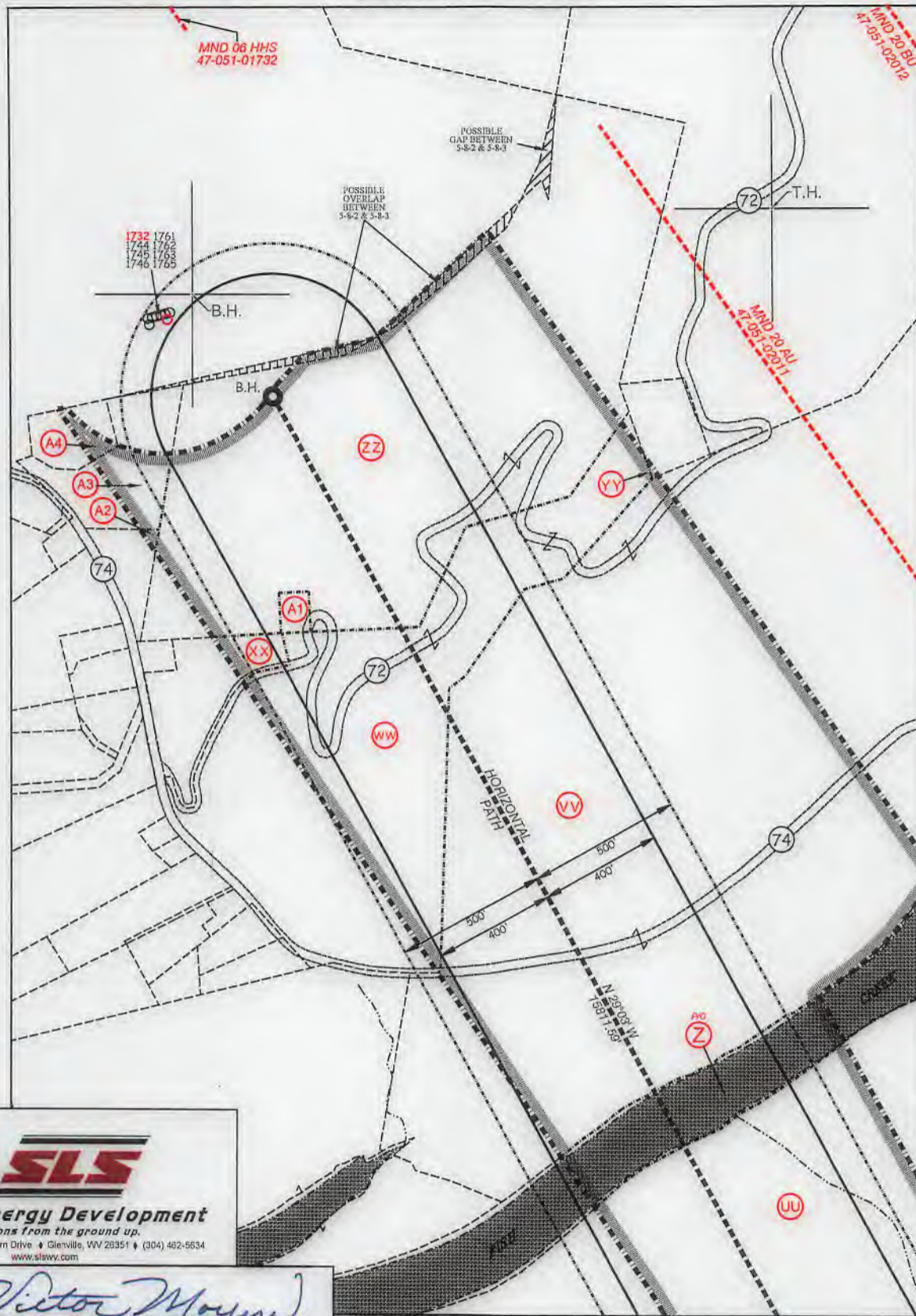
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 MDD

COUNTY NAME PERMIT

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ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500	ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107	CHARLESTON, WV 25313

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SHEET 2 DETAIL
SCALE - 1" = 500'

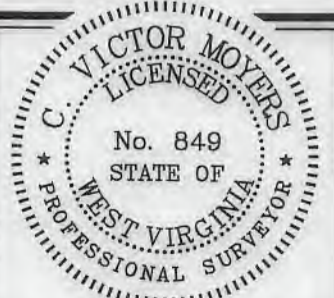


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LEASED TRACTS INSIDE	-----
UNIT BOUNDARY	-----
SURFACE LINE	-----
PROPOSED UTICA	-----
WELL LATERAL	-----
400' OFFSET LINE	-----
500' OFFSET LINE	-----
TIE LINE	-----
CREEK	-----
ROAD	-----
COUNTY ROUTE	-----
PROPOSED WELL	⊙
EXISTING WELL	⊙
PERMITTED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

SCALE 1" = 2000' FILE NO. 8796P17HUR5.dwg
 OLD CROW NORTH 17HU REV7
 DATE OCTOBER 3, 2018
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 OFFICE OF OIL AND GAS
 MDD

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

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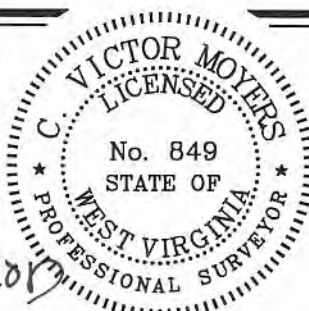
NO.	Lease ID	Tag	Parcel	Grantor, Lessor, Etc.	Deed Book/Page
1	10*21468	A	5-16-25	JOHN A SWIERKOS	953 317
2	10*19340	B	5-16-3	DONNA V YOHO	665 407
3	10*14919	C	5-16-5	CHESTNUT HOLDINGS INC	836 117
4	10*14920	D	5-10-14	CHESTNUT HOLDINGS INC	836 119
5	10*19340	E	5-16-3.2	DONNA V YOHO	665 407
6	10*19017	F	5-10-15	PAULA RINE AND DEBRA A RINE	796 24
7	10*19223	G	5-10-15.1	DONALD T MILLER	737 284
8	10*19126	H	5-10-16	KEVIN R. CORLEY AND ANITA L. CORLEY, HUSBAND AND WIFE	859 44
9	10*19109	I	5-10-16.4	JOHN W. MILLER AND MARY ALICE MILLER, HUSBAND AND WIFE	863 275
10	10*47051.260.0	J	5-10-2	WILLIAM A PRASCIK, ET AL	879 302
11	10*19021	K	5-10-17	MARCELLUS TX MINERAL PARTNERS LTD, et al	800 216
12	10*19336	L	5-11-11.2	BONNIE JEAN DAWSON	665 397
13	10*19021	M	5-11-10	MARCELLUS TX MINERAL PARTNERS LTD, et al	800 216
14	10*19153	N	5-11-9.4	JACK S HUGGINS JR AND TERRY L HUGGINS	700 396
15	10*19153	O	5-11-9.1	JACK S HUGGINS JR	700 396
16	10*18970	P	5-10-1	DONALD E BERISFORD, et al	941 287
17	10*14099	Q	5-11-9.7	SOUTHERN COUNTRY FARMS INC	666 489
18	10*14099	R	5-11-9	SOUTHERN COUNTRY FARMS INC	666 489
19	10*19172	S	5-11-9.8	SEAN F MOORE LINDA MOORE	706 581
20	10*17512	T	5-9-29	BONNIE LOU POSTLEWAIT, et al	917 68
21	10*21547	U	5-9-30.2	GARY A MILLER AND MARCELLE T MILLER, et al	952 370
22	CVX935271	V	5-9-38.6	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
23	CVX935271	W	5-9-38.7	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
24	CVX935271	X	5-9-38.5	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
25	CVX935271	Y	5-9-38.4	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
26	Q091960000	Z	FISH CREEK	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	865 558
27	10*19098	AA	5-11-4	DAVID H ARRICK AND LELAH M ARRICK, et al	800 505
28	CVX935271	BB	5-9-38.3	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
29	CVX935271	CC	5-9-38.2	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
30	CVX935271	DD	5-9-38.1	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
31	CVX935271	EE	5-9-38.10	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
32	10*19217	FF	5-9-31	JAY DEE DALLISON EDDIE D DALLISON	676 463
33	CVX935271	GG	5-9-38.8	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
34	CVX935271	HH	5-9-38.9	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
35	CVX935271	II	5-9-38	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
36	CVX935271	JJ	5-9-37	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
37	CVX935271	KK	5-9-32.4	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
38	CVX935271	LL	5-9-32.12	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
39	CVX935271	MM	5-9-32.1	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
40	CVX935271	NN	5-9-32.2	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
41	CVX935271	OO	5-9-32.6	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
42	CVX935271	PP	5-9-32.13	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
43	CVX935271	QQ	5-9-32.7	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
44	CVX935271	RR	5-9-32	CHARLES W. MILLER AND ESTHER JEAN MILLER, et al	853 59
45	10*25370	SS	5-8-8	JAMES EDWARD & LAURA J FRANCIS et al	1030 377
46	10*47051.105.0	TT	5-8-9	JAMES B JACKSON JR AND MARION L JACKSON	859 478
47	10*21546	UU	5-8-7	EDWIN C MILLER AND KIMBERLY ANN MILLER	957 257
48	CVX946510	VV	5-8-5	NICOLE GATTS-SFX	899 470
49	CVX866629	WW	5-8-4	FRANCES E NIEMAN ET AL	685 283
50	10*26024	XX	5-8A-35	WILLIAM MCGLUMPHY	752 370
51	CVX920045	YY	5-5-4.1	GENEVA BASSETT SANCHEZ AKA GENEVA A BASSETT SANCHEZ	813 593
52	Q081033000	ZZ	5-8-3	TAMMY L MITCHELL ET VIR	816 176
53	Q077350000	A1	5-8-23	ROBERT SHIELDS AND REBECCA A SHIELDS	806 355
54	Q092606000	A2	5-8A-14	THE BOARD OF EDUCATION OF COUNTY OF MARSHALL	896 501
55	Q088946000	A3	5-8A-13	LETHA I RUCKMAN	765 219
56	Q083860000	A4	5-8A-12	MARY D RUCKMAN	765 224

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OPERATORS WELL NO. OLD CROW N-17HU
API WELL NO. 47 — 051 — 02122
STATE COUNTY PERMIT



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



P.S.
849

C. Victor Moyers

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