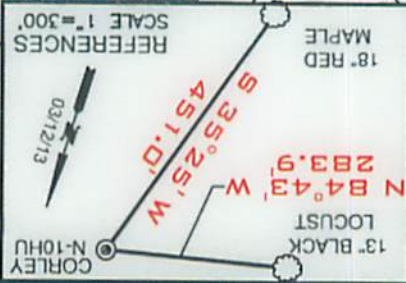


**CORLEY LEASE**  
**UTICA UNIT - 354.194 AC±**  
**TUG HILL OPERATING**  
**WELL N-10HU**  
 01340



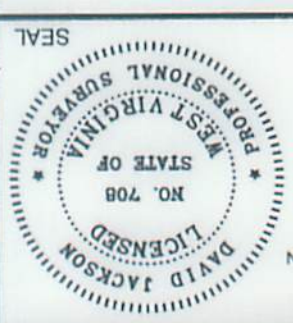
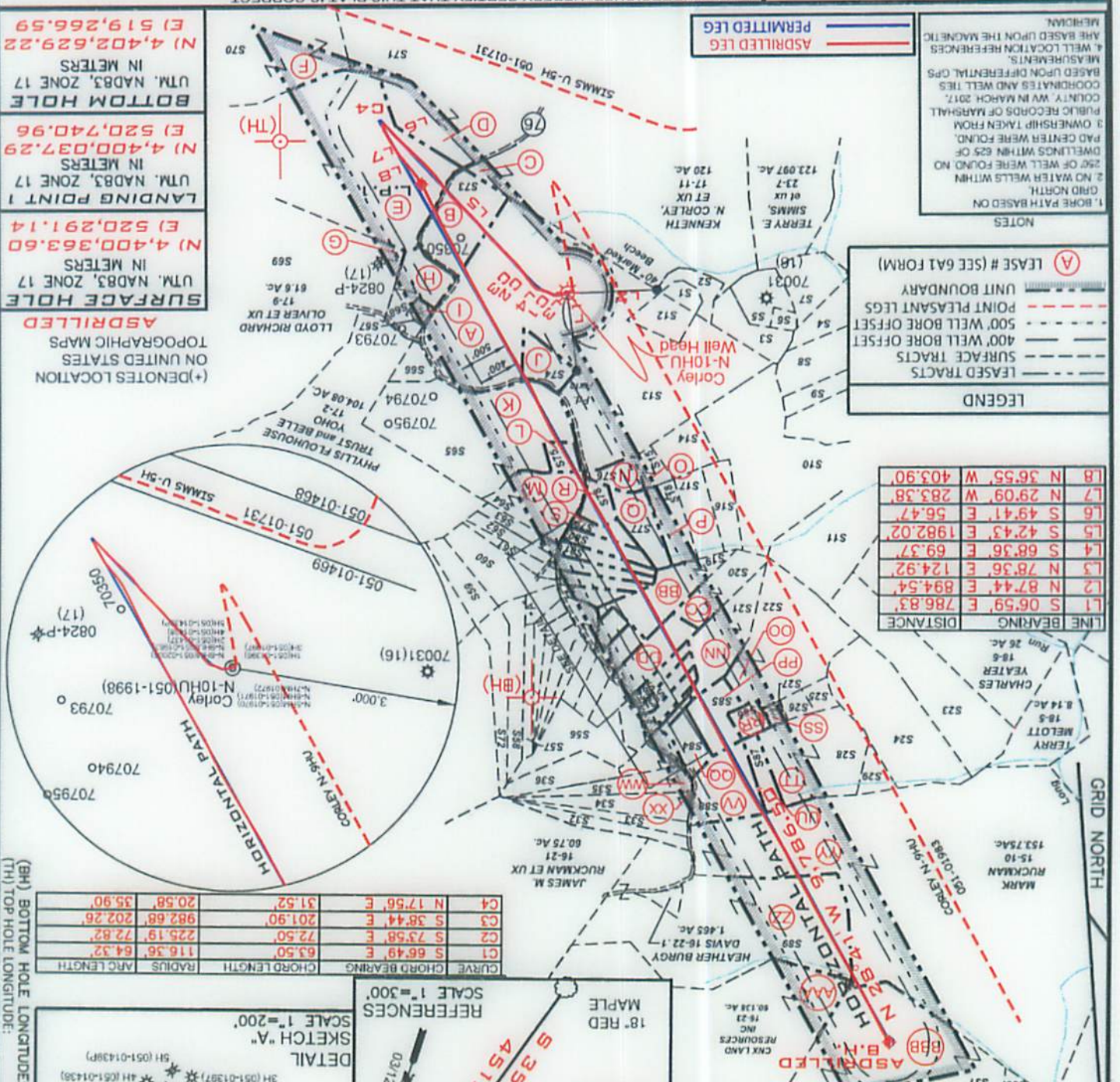
TOP HOLE LATITUDE: 39°47'30"  
 BOTTOM HOLE LATITUDE: 39°47'30"  
 TOP HOLE LONGITUDE: 80°45'00"  
 BOTTOM HOLE LONGITUDE: 80°45'00"

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 66°49' E	63.50	116.56	64.32
C2	S 73°58' E	72.50	225.19	72.82
C3	S 38°44' E	201.90	982.68	202.26
C4	N 17°56' E	31.52	20.58	35.90

DETAIL SKETCH "A"  
 SCALE 1"=200'

REFERENCES: N-7H/M051-01872, N-8H/M051-02005, N-8H/M051-01927, N-8H/M051-1998, N-10HU051-1998, N-8H/M051-01437, N-8H/M051-01963, N-8H/M051-01397, N-8H/M051-01438, N-8H/M051-01439, N-8H/M051-01437, N-8H/M051-01437, N-8H/M051-01438, N-8H/M051-01439

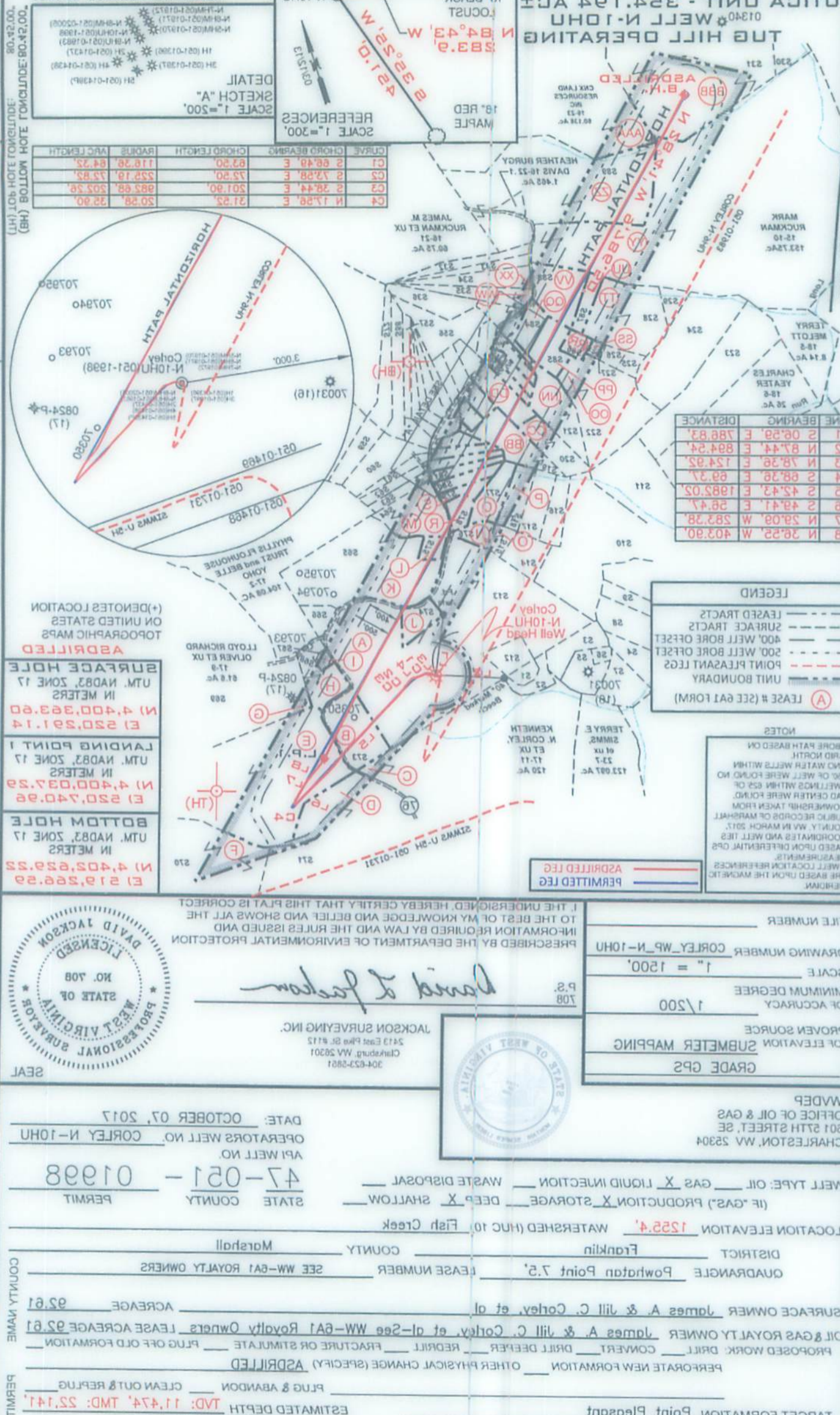
LINE BEARING	DISTANCE
L1	S 06°59' E 786.83'
L2	N 87°44' E 894.54'
L3	N 78°36' E 124.92'
L4	S 68°36' E 69.37'
L5	S 42°45' E 1982.02'
L6	S 49°41' E 56.47'
L7	N 29°09' W 283.38'
L8	N 36°55' W 403.90'



*David Jackson*  
 JACKSON SURVEYING INC.  
 2413 East Pike St. #112  
 Clarksburg, WV 26301  
 304-623-5851

FILE NUMBER	CORLEY_WP_N-10HU
DRAWING NUMBER	CORLEY_WP_N-10HU
SCALE	1" = 1500'
MINIMUM DEGREE	1/200
OF ACCURACY	
PROVEN SOURCE	GRADE GPS
OF ELEVATION	SUBMETER MAPPING

DATE: OCTOBER 07, 2017  
 OPERATORS WELL NO. CORLEY N-10HU  
 API WELL NO. 47-051-01998  
 WELL TYPE: OIL GAS & LIQUID INJECTION WASTE DISPOSAL  
 (IF GAS) PRODUCTION & STORAGE DEEP & SHALLOW  
 LOCATION ELEVATION 1255.4' WATERSHED (HUC 10) Fish Creek  
 DISTRICT Franklin COUNTY Marshall  
 QUADRANGLE Powhatan Point 7.5' LEASE NUMBER SEE WW-6A1 ROYALTY OWNERS  
 SURFACE OWNER James A. & Jill C. Corley, et al ACREAGE 92.61  
 OIL & GAS ROYALTY OWNER James A. & Jill C. Corley, et al - See WW-6A1 Royalty Owners LEASE ACREAGE 92.61  
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) ASDRILLED  
 PLUG & ABANDON CLEAN OUT & REFLUG  
 ESTIMATED DEPTH TVD: 11,474' TMD: 22,141'  
 TARGET FORMATION Point Pleasant  
 WELL OPERATOR TUG HILL OPERATING, LLC  
 DESIGNATED AGENT DIANNA STAMPER  
 CT CORPORATION SYSTEM  
 ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107  
 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313



LINE	BEARING	DISTANCE
L1	S 08°59' E	788.83
L2	N 87°44' E	894.54
L3	N 78°36' E	124.92
L4	S 88°38' E	89.37
L5	S 42°43' E	1982.02
L6	S 29°41' E	58.47
L7	N 29°08' W	283.28
L8	N 38°25' W	403.90

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 88°49' E	83.50	118.28	84.32
C2	S 73°88' E	73.50	328.19	73.83
C3	S 38°44' E	201.90	982.88	202.28
C4	N 17°58' E	21.52	20.28	32.90

UTM. NAD83, ZONE 17	IN METERS
(E) 212,266.22	(N) 4,402,822.22
(E) 220,740.99	(N) 4,400,037.22
(E) 220,291.14	(N) 4,400,363.60

UTM. NAD83, ZONE 17	IN METERS
(E) 220,291.14	(N) 4,400,363.60
(E) 220,740.99	(N) 4,400,037.22

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS  
 ADRILLED  
 SURFACE HOLE  
 UTM. NAD83, ZONE 17  
 IN METERS  
 (E) 220,291.14 (N) 4,400,363.60  
 LANDING POINT 1  
 UTM. NAD83, ZONE 17  
 IN METERS  
 (E) 220,740.99 (N) 4,400,037.22  
 BOTTOM HOLE  
 UTM. NAD83, ZONE 17  
 IN METERS  
 (E) 212,266.22 (N) 4,402,822.22

LEGEND  
 LEASE # (SEE 6A1 FORM)  
 UNIT BOUNDARY  
 POINT PLEASANT LEGS  
 200' WELL BORE OFFSET  
 400' WELL BORE OFFSET  
 SURFACE TRACTS  
 LEASED TRACTS

NOTES  
 1. BORE PATH BASED ON GRID NORTH  
 2. NO WATER WELLS WITHIN 200' OF WELL WERE FOUND NO DWELLINGS WITHIN 625' OF PAD CENTER WERE FOUND  
 3. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN MARCH 2017  
 4. COORDINATES AND WELL LEGS BASED UPON DIFFERENTIAL GPS MEASUREMENTS  
 5. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN

CORLEY LEASE  
 UTICA UNIT - 324.194 AC ±  
 WELLS N-10HU  
 TUG HILL OPERATING  
 01340

CORLEY N-10HU  
 18° RED MAPLE  
 18° BLACK LOCUST  
 N 84°43' W 283.9'  
 B 32°51' W 421.0'

HEATHER BURG  
 DAVIS 18-23-1  
 1.402 AC  
 JAMES M. RUCKMAN ET UX  
 18-21 18-21  
 60.73 AC  
 MARK RUCKMAN  
 12-10 12-10  
 122.22 AC  
 TERRY METT  
 18-3 18-3  
 8.14 AC  
 CHARLES YEATER  
 18-2 18-2  
 26 AC

PHYLIS F. ROUSHOUSE  
 YOMO  
 11-2 11-2  
 104.08 AC  
 LLOYD RICHARD OLIVER ET UX  
 11-9 11-9  
 81.8 AC  
 TERRY E. SIMMS, N. CORLEY, ET UX  
 11-11 11-11  
 120 AC  
 KENNETH TERRY  
 11-11 11-11  
 123.087 AC

STAMPS U-9H 001-01731  
 STAMPS U-9H 001-01488  
 STAMPS U-9H 001-01488  
 STAMPS U-9H 001-01488  
 STAMPS U-9H 001-01488

ADRILLED LEG  
 PERMITTED LEG

FILE NUMBER  
 DRAWING NUMBER CORLEY\_WP-N-10HU  
 SCALE 1" = 1200'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION SUBMETER MAPPING  
 GRADE GPS

WVDPE  
 OFFICE OF OIL & GAS  
 601 27TH STREET, SE  
 CHARLESTON, WV 25304

WELLS TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF GAS) PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
 LOCATION ELEVATION 1252.4' WATERSHED (HUC 10) Fish Creek  
 DISTRICT Franklin  
 QUADRANGLE Powhatan Point 7.5'  
 SURFACE OWNER James A. & Jill C. Corley, et al  
 OIL & GAS ROYALTY OWNER James A. & Jill C. Corley, et al - See WW-6A1 Royalty Owners LEASE ACREAGE 92.61  
 ACREAGE 92.61  
 COUNTY NAME Marshall COUNTY  
 LEASE NUMBER SEE WW-6A1 ROYALTY OWNERS  
 PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_  
 PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE (SPECIFY) ADRILLED  
 TARGET FORMATION Point Pleasant  
 WELL OPERATOR TUG HILL OPERATING, LLC  
 ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 200 FORT WORTH, TX 76107  
 DESIGNATED AGENT DIANNA STAMPER  
 CT CORPORATION SYSTEM  
 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313  
 ESTIMATED DEPTH TVD: 11,474' TMD: 22,141'  
 PLUG & ABANDON \_\_\_ CLEAN OUT & REPLUG \_\_\_  
 PERMIT

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

DAVID JACKSON  
 LICENSED  
 NO. 708  
 STATE OF WEST VIRGINIA  
 PROFESSIONAL SURVEYOR  
 SEAL

JACKSON SURVEYING INC.  
 2413 East Park Dr. #175  
 Charleston, WV 25301  
 304-623-2881

P. S. 708  
 1/200

PG 1 OF 3

**CORLEY LEASE  
UTICA UNIT - 354.194 AC±  
WELL N-10HU  
TUG HILL OPERATING**

FORM WWS



**TUG HILL OPERATING**

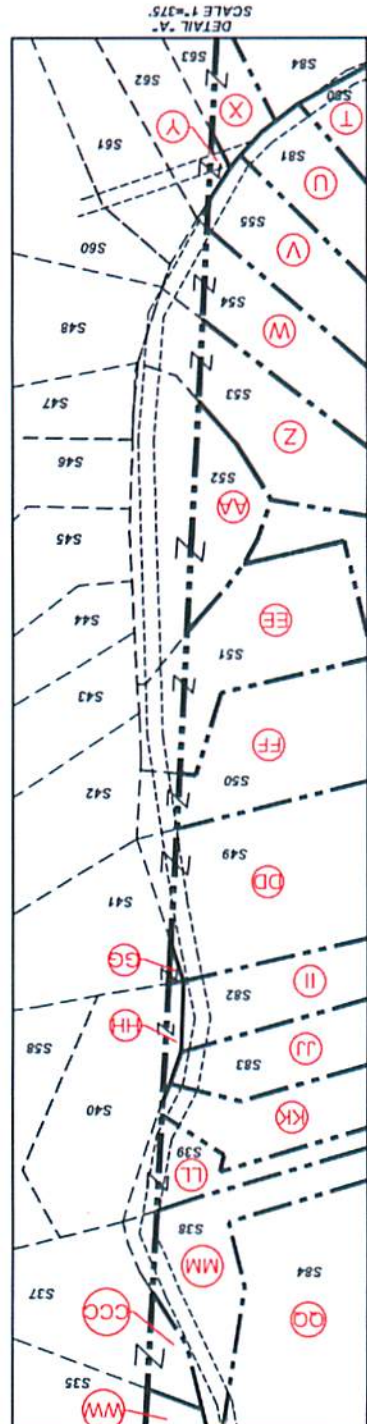
OPERATORS  
WELL #: Corley N-10HU  
DISTRICT: Franklin  
COUNTY: Marshall  
STATE: WV  
API #: 47-051-01998

WELL PLAT  
PAGE 2 OF 3  
DATE: 10/07/2019



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JUL 10 2020  
WV Department of  
Environmental Protection

*David Jackson*  
P.S. 708



Number	TAX MAP -PARCEL	SURFACE OWNER	ACRES
S1	17-12.1	Williams Ohio Valley Midstream LLC	1.67
S2	17-12	James A. & Jill C. Corley	3.33
S3	18-13.8	Lord D. Carpenter	5.45
S4	18-29	Carl G. Berg	5.319
S5	18-32	Kenneth E. Raslall	5.335
S6	18-32.1	Lord D. Carpenter	1.165
S7	18-31	Kenneth E. Raslall	6.94
S8	18-13.10	Carl Berg	10.88
S9	18-30	John Schmidt et al	5.46
S10	18-13	Southern Country Farm Inc.	24,724
S11	18-16	Charles Yeater	17,768
S12	17-10.5	Williams Ohio Valley Midstream LLC	4.24
S13	17-10	James A. Corley & Jill C. Corley, et al	92.61
S14	18-33	Sandra K. & Glenn E. Whisler	5.343
S15	18-13.14	Glenn E. & Sandra K. Whisler	2.116
S16	18-34	Jodi A. & Gary A. Hall	5.002
S17	18-13.13	Glenn E. & Sandra K. Whisler	5.59
S18	18-13.6	Glenn Eugene Whisler Et Ux	5.384
S19	18-13.1	Cory A. Holt	9.248
S20	18-17	Michael Fincham & Kezia Winters	6.555
S21	18-13.3	Robert G. Closterman	9.813
S22	18-15.5	Darrell Boley & Teresa Boley	23,547
S23	18-15.3	Charles Yeater	26.44
S24	18-15.4	Edward Lee Burge Jr.	22.34
S25	18-10.1	David Anderson et ux	1.65
S26	18-10.2	David Anderson et ux	1.377
S27	18-10	David & Nancy Anderson	0.907
S28	18-11.1	Edward Lee Burge Jr.	18.0
S29	18-15	Edward Lee Burge Jr.	2.495
S30	15-13	CNX Land Resources Inc.	11.0
S31	15-09	CNX Land Resources Inc.	81.98
S32	18-56	William E. O'Hara	3.965
S33	18-55	William E. O'Hara	3.202
S34	18-28	Dotson Harrison et ux	6.36
S35	18-28.1	Carol Diane Helmick	5.696
S36	18-13.2	Steven G. Bortford	6.023
S37	18-50	Steven G. Bortford	2.170
S38	18-36	Ruth Mulligan Est.	2.003
S39	18-13.5	Bryan Wesley	1.023
S40	18-49	Tanner Butler	2.023
S41	18-37	John Wetzel	2.064
S42	18-38	Marton Connor	2.231
S43	18-39	Marton R. Connor	2.001
S44	18-27.1	Marton R. Connor	2.003
S45	18-27.2	Linda L. Moore	3.009
S46	18-27	Linda L. Moore	2.447
S47	18-26	Linda L. Moore	2.624
S48	18-53	Christopher M. Previtera	2.00
S49	18-14	Michael Fincham & Kezia Winters	6.386
S50	18-40	Cory A. Holt	2.237
S51	18-41	Cory A. Holt	2.308
S52	18-25	Charles & Martha Rayl	2.521
S53	18-44	Renee Straight	2.133
S54	18-43	Roy Butler	2.532
S55	18-51	Roger Hall Jr.	2.505
S56	18-13	Southern Country Farms, Inc.	11.054
S57	18-13.11	Linda L. Moore	3.156
S58	18-53.1	Christopher M. Previtera	6.283
S59	17-01	Southern Country Farms, Inc.	5.03
S60	18-13	Southern Country Farms Inc	11.054
S61	18-58	Kevin Roberts	2.635
S62	18-35	Mary Anderson	2.308
S63	18-42	Roger Howard Hall Jr.	2.383
S64	18-19	Roger White Jr.	10.0
S65	17-10.3	James & Jill Corley	37.39
S66	17-10.2	Sidney Pozell et ux Ests.	2.6
S67	17-9.1	Linda L. Moore	1.0
S68	17-9.2	Jeri J. White	7.136
S69	17-9.4	Vicki Bowen	60.3
S70	24-01	Linda Hendrickson & Donald Pickering	175.0
S71	17-11.1	Randy Francis et ux	67.0
S72	18-60	Christopher M. Previtera	6,297
S73	17-9.3	James Corley et ux	12,478
S74	17-10.1	James & Jill Corley	4.51
S75	17-10.4	Ron Murn et al	2.01
S76	18-48	Marvin Dean Roberts et al	2,920
S77	18-13.7	Victor Woods, Jr. & Jessica Woods	5,255
S78	18-18	Linda Coen	3.0
S79	18-57	Marvin Roberts	2,228
S80	18-61	Roger White, Jr.	2,984
S81	18-52	Roger Hall	2,536
S82	18-45	Michael Fincham & Kezia Winters	2.07
S83	18-46	Dale & Patricia Gardener	2,030
S84	18-15.2	Edward Burge	4,171
S85	18-15.1	Jason Blair	5,948
S86	18-12	William Wayne et ux	2,270
S87	18-11.2	Edward Lee Burge, Jr.	2.00
S88	18-11	Benjamin Robinson	12,883
S89	16-22	James M. Ruckman et ux	54,605

**CORLEY LEASE  
UTICA UNIT - 354.194 AC±  
WELL N-10HU  
TUG HILL OPERATING**

GRID NORTH

NUMBER	LEASE NAME OR NO.	TAG	PARCEL	OIL & GAS ROYALTY OWNER	DEED BOOK	PAGE
1	10*14095	A	5-17-10	JAMES A CORLEY AND JILL C CORLEY	666	545
2	10*14096	A	5-17-10	RUTH A CORLEY	666	545
3	10*14095	B	5-17-9.3	JAMES A CORLEY AND JILL C CORLEY	666	545
4	10*14126	C	5-17-11	SHARON MIDCAP	697	152
5	10*14126	D	5-17-11.1	SHARON MIDCAP	697	152
6	10*14066	E	5-17-9.4	VICKI L BOWEN	665	375
7	10*14138	F	5-24-1	LINDA AND DONALD HENDRICKSON	666	528
8	10*14139	G	5-17-9	LLOYD RICHARD OLIVER AND DEANN	666	49
9	10*14135	H	5-17-9.2	GEORGE A WHITE AND JERI J WHITE	706	132
10	10*14135	I	5-17-9.1	GEORGE A WHITE AND JERI J WHITE	706	132
11	10*14096	J	5-17-10.1	RUTH A CORLEY	666	545
12	10*14095	K	5-17-10.3	JAMES A CORLEY AND JILL C CORLEY	666	545
13	10*14095	L	5-17-10.4	JAMES A CORLEY AND JILL C CORLEY	666	545
14	10*14298	M	5-18-19	MICHAEL L WEST	702	115
15	10*14299	M	5-18-19	CONRAD A. FLOUHOUSE	735	271
16	10*18898	N	5-18-48	COLBY ANN FLOUHOUSE HOMER AND THE ESTATE OF PHYLLIS J FLOUHOUSE	940	427
17	10*14099	N	5-18-48	SOUTHERN COUNTRY FARMS INC	666	489
18	10*14099	O	5-18-13.14	SOUTHERN COUNTRY FARMS INC	666	489
19	10*18898	O	5-18-13.14	COLBY ANN FLOUHOUSE HOMER AND THE ESTATE OF PHYLLIS J FLOUHOUSE	940	427
20	10*14099	P	5-18-13.6	SOUTHERN COUNTRY FARMS INC	666	489
21	10*18898	P	5-18-13.6	COLBY ANN FLOUHOUSE HOMER AND THE ESTATE OF PHYLLIS J FLOUHOUSE	940	427
22	10*14099	Q	5-18-13.7	SOUTHERN COUNTRY FARMS INC	666	489
23	10*14099	R	5-18-18	SOUTHERN COUNTRY FARMS INC	666	489
24	10*14099	S	5-18-57	SOUTHERN COUNTRY FARMS INC	666	489
25	10*18898	S	5-18-57	COLBY FLOUHOUSE	940	266
26	10*18898	T	5-18-61	COLBY FLOUHOUSE	940	266
27	10*18143	T	5-18-61	ROGER D WHITE JR	940	279
28	10*17644	U	5-18-52	ROGER HALL	942	404
29	10*18898	U	5-18-52	COLBY FLOUHOUSE	940	266
30	10*17644	V	5-18-51	ROGER HALL	942	404
31	10*18898	V	5-18-51	COLBY FLOUHOUSE	940	266
32	10*14099	W	5-18-43	SOUTHERN COUNTRY FARMS INC	666	489
33	10*14099	W	5-18-43	SOUTHERN COUNTRY FARMS INC	666	489
34	10*17826	X	5-18-42	ALLDALE MINERALS II, LP	940	439
35	10*17812	X	5-18-42	POTOMAC MINERAL GROUP, LLC	940	437
36	10*21463	X	5-18-42	MOLLY D. ASTON, ET VIR	954	131
37	10*21460	X	5-18-42	MAGGY D. ASTON, ET VIR	954	125
38	10*14914	X	5-18-42	CHESTNUT HOLDINGS INC	827	548
39	10*14099	X	5-18-42	SOUTHERN COUNTRY FARMS INC	666	489
40	10*14099	Y	5-18-35	SOUTHERN COUNTRY FARMS INC	666	489
41	10*14099	Z	5-18-44	SOUTHERN COUNTRY FARMS INC	666	489
42	10*17618	AA	5-18-25	CHARLES H RAYL AND MARIA A RAYL	942	329
43	10*19341	BB	5-18-13.1	FRANKLIN BOYD TAGG ET UX	936	569
44	10*19342	BB	5-18-13.1	SONNY MICHAEL TAGG ET UX	936	521
45	10*19343	BB	5-18-13.1	SUZANNA LYNETT GUSEMAN ET CON	936	537
46	10*19222	CC	5-18-17	CHARLES E. GALLOWAY SR. AND LINDA S. GALLOWAY	737	437
47	10*19222	DD	5-18-14	CHARLES E. GALLOWAY SR. AND LINDA S. GALLOWAY	737	437
48	10*14099	EE	5-18-41	SOUTHERN COUNTRY FARMS INC	666	489
49	10*14099	FF	5-18-40	SOUTHERN COUNTRY FARMS INC	666	489
50	10*14099	GG	5-18-37	SOUTHERN COUNTRY FARMS INC	666	489
51	10*14099	HH	5-18-49	SOUTHERN COUNTRY FARMS INC	666	489
52	10*14099	II	5-18-45	SOUTHERN COUNTRY FARMS INC	666	489
53	10*14099	JJ	5-18-46	SOUTHERN COUNTRY FARMS INC	666	489
54	10*14099	KK	5-18-47	SOUTHERN COUNTRY FARMS INC	666	489
55	10*14099	LL	5-18-13.5	SOUTHERN COUNTRY FARMS INC	666	489
56	10*14099	MM	5-18-36	SOUTHERN COUNTRY FARMS INC	666	489
57	10*14099	NN	5-18-13.3	SOUTHERN COUNTRY FARMS INC	666	489
58	10*14503	OO	5-18-15.5	IMA LEE YOHO	756	85
59	10*19155	PP	5-18-15.1	JAMES A WAYNE AND BETTY LUE WAYNE	701	78
60	10*19188	QQ	5-18-15.2	BURGE EDWARD L	781	437
61	10*19145	RR	5-18-12	WILLIAM WAYNE, ET UX	706	87
62	10*19160	SS	5-18-10	ANDERSON DAVID V ET UX	704	319
63	10*19218	TT	5-18-11.1	ROBINSON BENJAMIN	727	211
64	10*19218	UU	5-18-11.2	ROBINSON BENJAMIN	727	211
65	10*19218	VV	5-18-11	ROBINSON BENJAMIN	727	211
66	10*14099	WW	5-18-28.1	SOUTHERN COUNTRY FARMS INC	666	489
67	10*47051.104.0	XX	5-18-28	DOTSON GALE AND DOLLY MARIE HARRISON	873	48
68	10*19339	YY	5-15-10	MARK STANLEY RUCKMAN	664	495
69	10*19338	ZZ	5-16-22	JAMES M AND KIMBERLY L RUCKMAN	741	72
70	10*19294	AAA	5-16-23	BRENDA K BRYAN, ET AL	741	78
71	10*19295	BBB	5-15-9	BRENDA K BRYAN, ET AL	741	78
72	10*14099	CCC	5-18-50	SOUTHERN COUNTRY FARMS INC	666	489

**PERMITTED**  
**SURFACE HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,400,363.58  
E) 520,291.13

**LANDING POINT 1**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,399,995.90  
E) 520,783.72

**BOTTOM HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,402,628.19  
E) 519,263.80



P.S. 708 *David L Jackson*

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Office of Oil and Gas  
JUL 10 2020  
WV Department of  
Environmental Protection



**TUG HILL  
OPERATING**

OPERATOR'S  
WELL #: Corley N-10HU  
DISTRICT: Franklin  
COUNTY: Marshall  
STATE: WV  
API #: 47-051-01998

WELL PLAT  
PAGE 3 OF 3  
DATE: 10/07/2019