

**HEAVEN HILL 2W LEASE
UTICA UNIT - 572.54 AC. ±
WELL 13HU
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. 479,470.78 E. 1,627,756.58
NAD'83 GEO. LAT-(N) 39.810074 LONG-(W) 80.712982
NAD'83 UTM (M) N. 4,406,717.08 E. 524,567.56

LANDING POINT
NAD'83 S.P.C.(FT) N. 475,955.7 E. 1,625,337.6
NAD'83 GEO. LAT-(N) 39.800335 LONG-(W) 80.721422
NAD'83 UTM (M) N. 4,405,633.9 E. 523,848.5

BOTTOM HOLE
NAD'83 S.P.C.(FT) N. 470,411.6 E. 1,628,411.1
NAD'83 GEO. LAT-(N) 39.785230 LONG-(W) 80.710218
NAD'83 UTM (M) N. 4,403,960.5 E. 524,813.1

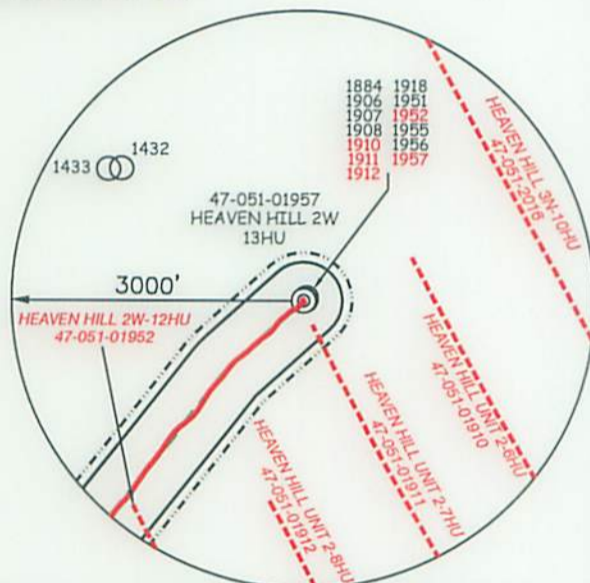
AS-DRILLED B.H.
B.H.

T.H. LONGITUDE 80°42'30"
B.H. LONGITUDE 80°42'30"
2,344' AS-DRILLED B.H.
2,345' B.H.

No.	Lease Name or No.	Tag	Parent	Grantor, Lessor, etc.	Deed Book/Page
1	10*15521	A	9-7-3	VENANGO 21ST CENTURY ENERGY INC	722 281
2	10*15608	A	9-7-3	CHARLES R HAGEDORN JR	826 423
3	10*42051.073.1	A	9-7-3	VENANGO 21ST CENTURY ENERGY INC	868 618
4	10*42051.073.2	A	9-7-3	PATRIOT RESTORATIONS LLC	908 541
5	10*42051.073.3	A	9-7-3	TRIENERGY HOLDINGS, LLC	878 330
6	10*17229	B	9-4-9	STEPHEN MENENDEZ	513 66
7	10*15661	C	9-4-5	CHESTNUT HOLDINGS LLC	839 170
8	10*15510	D	9-4-4	ROBERT LEE CARNEY AND BONNIE ANNE CARNEY	682 205
9	10*15530	E	9-4-9	ELAINE PHELPS ET VIR	718 326
10	10*15511	E	9-4-9	DAVID E CROW	718 376
11	10*15512	E	9-4-9	FRANCES COFFEY	718 378
12	10*15513	E	9-4-9	KAY KEYS	718 330
13	10*15514	E	9-4-9	L PAUL CROW	718 336
14	10*15515	E	9-4-9	DESIRE L CROW	718 334
15	10*15516	E	9-4-9	ROSE MARIE KIELGCZEWSKI	718 354
16	10*15517	E	9-4-9	DIANNE GELLNER & GARY GELLNER	718 345
17	10*15518	E	9-4-9	JAMES P HOLLIDAY AND JACQUELINE HOLLIDAY	718 347
18	10*15519	E	9-4-9	JOHN CROW	726 580
19	10*15520	E	9-4-9	TIMOTHY CROW	726 582
20	10*42051.123.1	E	9-4-9	LLOYD G BAKER	865 389
21	10*42051.123.2	E	9-4-9	JAMES P HOLLIDAY AND JACQUELINE HOLLIDAY	873 143
22	10*15525	F	9-6-12	RONALD KEITH MASON ET UX	722 445
23	10*15541	F	9-6-12	MARY RUTH FROHNAPFEL	785 312
24	10*15542	F	9-6-12	KENNETH D SIBURT	785 218
25	10*15543	F	9-6-12	SANDRA FROWEN	785 307
26	10*15544	F	9-6-12	VICKI J CHERRY A/K/A VICKIE L CHERRY	793 318
27	10*15545	F	9-6-12	JAMES B SIBURT ET UX	793 312
28	10*15546	F	9-6-12	ALAN K SIBURT ET UX	793 325
29	10*15547	F	9-6-12	RODNEY L SIBURT	793 346
30	10*15507	G	9-4-15	RAY C HARTZELL AND CAROL J HARTZELL, HUSBAND AND WIFE	689 162
31	10*15504	H	9-4-14	JAMES MASON ET AL	692 461
32	10*15510	I	9-4-15	ELAINE PHELPS ET VIR	718 326
33	10*15511	I	9-4-15	DAVID E CROW	718 376
34	10*15512	I	9-4-15	FRANCES COFFEY	718 378
35	10*15513	I	9-4-15	KAY KEYS	718 330
36	10*15514	I	9-4-15	L PAUL CROW	718 336
37	10*15515	I	9-4-15	DESIRE L CROW	718 334
38	10*15516	I	9-4-15	ROSE MARIE KIELGCZEWSKI	718 354
39	10*15517	I	9-4-15	DIANNE GELLNER & GARY GELLNER	718 345
40	10*15518	I	9-4-15	JAMES P HOLLIDAY AND JACQUELINE HOLLIDAY	718 347
41	10*15519	I	9-4-15	JOHN CROW	726 580
42	10*15520	I	9-4-15	TIMOTHY CROW	726 582
43	10*42051.123.1	I	9-4-15	LLOYD G BAKER	865 389
44	10*42051.123.2	I	9-4-15	JAMES P HOLLIDAY AND JACQUELINE HOLLIDAY	873 143
45	10*15510	J	9-6-11	ELAINE PHELPS ET VIR	718 326
46	10*15511	J	9-6-11	DAVID E CROW	718 376
47	10*15512	J	9-6-11	FRANCES COFFEY	718 378
48	10*15513	J	9-6-11	KAY KEYS	718 330
49	10*15514	J	9-6-11	L PAUL CROW	718 336
50	10*15515	J	9-6-11	DESIRE L CROW	718 334
51	10*15516	J	9-6-11	ROSE MARIE KIELGCZEWSKI	718 354
52	10*15517	J	9-6-11	DIANNE GELLNER & GARY GELLNER	718 345
53	10*15518	J	9-6-11	JAMES P HOLLIDAY AND JACQUELINE HOLLIDAY	718 347
54	10*15519	J	9-6-11	JOHN CROW	726 580
55	10*15520	J	9-6-11	TIMOTHY CROW	726 582
56	10*42051.123.1	J	9-6-11	LLOYD G BAKER	865 389
57	10*42051.123.2	J	9-6-11	JAMES P HOLLIDAY AND JACQUELINE HOLLIDAY	873 143
58	10*15510	K	9-4-10	ELAINE PHELPS ET VIR	718 326
59	10*15511	K	9-4-10	DAVID E CROW	718 376
60	10*15512	K	9-4-10	FRANCES COFFEY	718 378
61	10*15513	K	9-4-10	KAY KEYS	718 330
62	10*15514	K	9-4-10	L PAUL CROW	718 336
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64	10*15516	K	9-4-10	ROSE MARIE KIELGCZEWSKI	718 354
65	10*15517	K	9-4-10	DIANNE GELLNER & GARY GELLNER	718 345
66	10*15518	K	9-4-10	JAMES P HOLLIDAY AND JACQUELINE HOLLIDAY	718 347
67	10*15519	K	9-4-10	JOHN CROW	726 580
68	10*15520	K	9-4-10	TIMOTHY CROW	726 582
69	10*42051.123.1	K	9-4-10	LLOYD G BAKER	865 389
70	10*42051.123.2	K	9-4-10	JAMES P HOLLIDAY AND JACQUELINE HOLLIDAY	873 143
71	10*42051.365.0	L	9-10-10	RALPH MARTIN TAYLOR	865 386
72	10*15510	M	9-10-9	ELAINE PHELPS ET VIR	718 326
73	10*15511	M	9-10-9	DAVID E CROW	718 376
74	10*15512	M	9-10-9	FRANCES COFFEY	718 378
75	10*15513	M	9-10-9	KAY KEYS	718 330

NOTES ON SURVEY

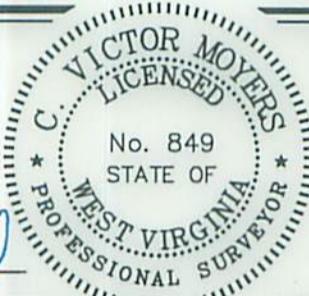
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS > 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'
- ROYALTY OWNERSHIP PROVIDED BY TUG HILL OPERATING, LLC.
- SURFACE OWNERSHIP PROVIDED WAS NOT ADDRESSED
- AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
- PLAT UPDATED TO SHOW AS-DRILLED PATH.
- THE LATERAL OR TOP OF HEAVEN HILL 2W-13HU (47-051-01957) IS LOCATED WITHIN 3000' OF THE FOLLOWING:
HEAVEN HILL UNIT 2-6HU (47-051-01910),
HEAVEN HILL UNIT 2-7HU (47-051-01911),
HEAVEN HILL UNIT 2-8HU (47-051-01912),
HEAVEN HILL 2W-12HU (47-051-01952),
HEAVEN HILL 3-10HU (47-051-02016),
PROPOSED KEITH STERN N-13HU,
KEITH STERN N-14HU (47-051-02252),
PROPOSED KNOB CREEK N-11HU,
PROPOSED KNOB CREEK N-12HU,
PROPOSED KNOB CREEK N-13HU.



SLS
Land & Energy Development
Solutions from the ground up.
P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 26351 • (304) 462-5634
www.slsurveyors.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 OCTOBER 17, 20 18
REVISED SEPTEMBER 6, 20 19
OPERATORS WELL NO. HEAVEN HILL 2W-13HU
API WELL NO. 47-51-01957
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8703AD13HUR.dwg
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 = 1,350.0' PROPOSED = 1,331.26' WATERSHED WEST FORK OF LOWER BOWMAN RUN OF FISH CREEK (HUC 10)
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER C.R. JR. & A.H. HAGEDORN ACREAGE 203.07±
ROYALTY OWNER C.R. JR. & A.H. HAGEDORN ET AL (SEE ABOVE) ACREAGE 203.07±

PROPOSED WORK: LEASE NO. SEE PAGES 1 & 3
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

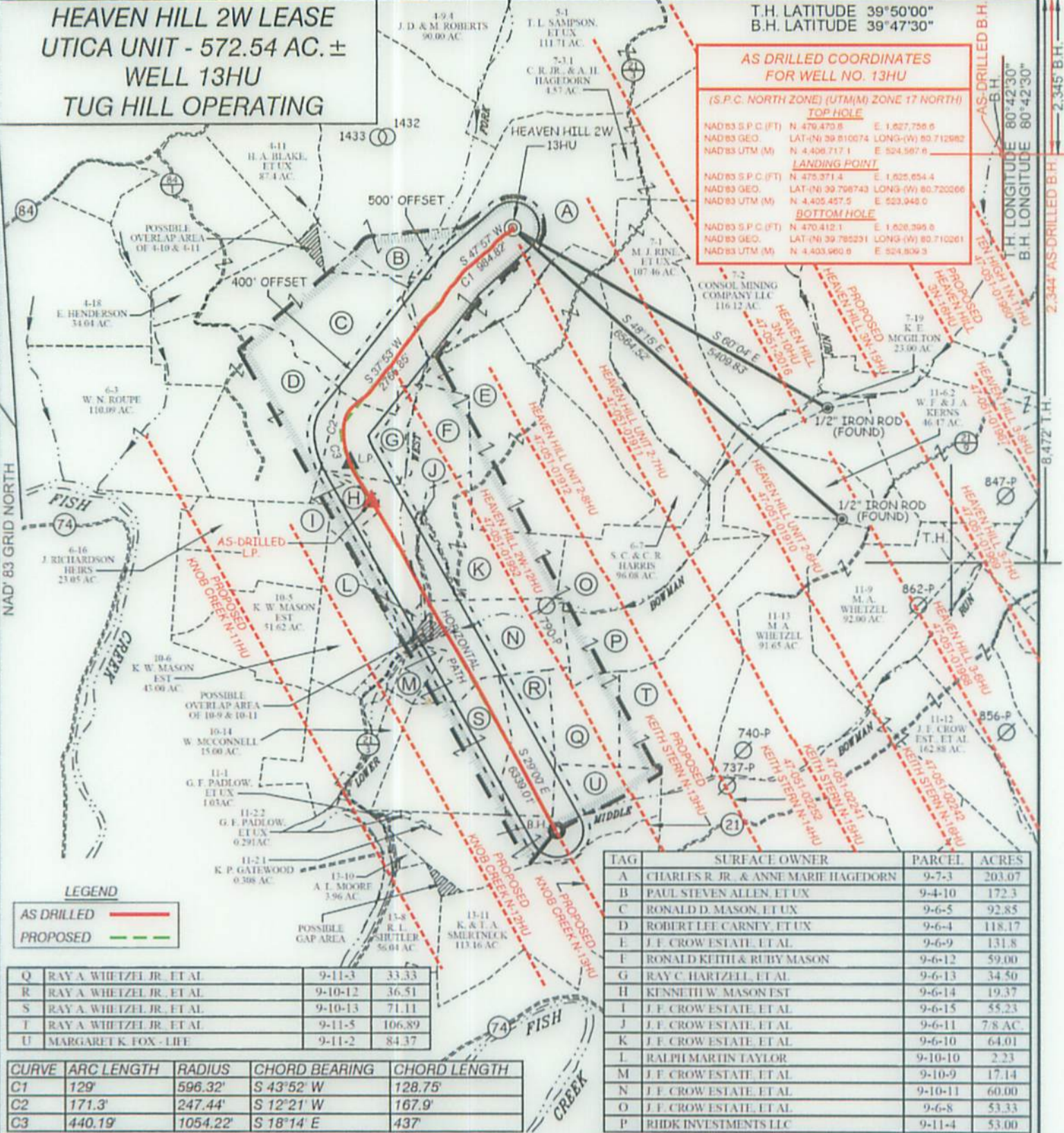
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION POINT PLEASANT
ESTIMATED DEPTH TVD: 11,789' / TMD: 19,218'

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

COUNTY NAME PERMIT

**HEAVEN HILL 2W LEASE
UTICA UNIT - 572.54 AC. ±
WELL 13HU
TUG HILL OPERATING**

AS DRILLED COORDINATES FOR WELL NO. 13HU
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
TOP HOLE
NAD83 S.P.C. (FT) N 476,470.8 E 1,627,756.6
NAD83 GEO. LAT-(N) 39.810074 LONG-(W) 80.712982
NAD83 UTM (M) N 4,406,717.1 E 524,567.6
LANDING POINT
NAD83 S.P.C. (FT) N 475,371.4 E 1,625,654.4
NAD83 GEO. LAT-(N) 39.796743 LONG-(W) 80.720266
NAD83 UTM (M) N 4,405,457.5 E 523,949.0
BOTTOM HOLE
NAD83 S.P.C. (FT) N 470,412.1 E 1,626,395.0
NAD83 GEO. LAT-(N) 39.785231 LONG-(W) 80.710261
NAD83 UTM (M) N 4,403,960.5 E 524,809.3



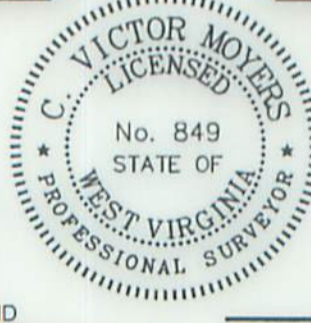
TAG	SURFACE OWNER	PARCEL	ACRES
A	CHARLES R. JR. & ANNE MARIE HAGEDORN	9-7-3	203.07
B	PAUL STEVEN ALLEN, ET UX	9-4-10	172.3
C	RONALD D. MASON, ET UX	9-6-5	92.85
D	ROBERT LEE CARNY, ET UX	9-6-4	118.17
E	J.F. CROWESTATE, ET AL.	9-6-9	131.8
F	RONALD KEITH & RUBY MASON	9-6-12	59.00
G	RAY C. HARTZELL, ET AL.	9-6-13	34.50
H	KENNETH W. MASON EST	9-6-14	19.37
I	J.F. CROWESTATE, ET AL.	9-6-15	55.23
J	J.F. CROWESTATE, ET AL.	9-6-11	7.8 AC.
K	J.F. CROWESTATE, ET AL.	9-6-10	64.01
L	RALPH MARTIN TAYLOR	9-10-10	2.23
M	J.F. CROWESTATE, ET AL.	9-10-9	17.14
N	J.F. CROWESTATE, ET AL.	9-10-11	60.00
O	J.F. CROWESTATE, ET AL.	9-6-8	53.33
P	RHDK INVESTMENTS LLC	9-11-4	53.00

Q	RAY A. WHEITZEL JR., ET AL.	9-11-3	33.33
R	RAY A. WHEITZEL JR., ET AL.	9-10-12	36.51
S	RAY A. WHEITZEL JR., ET AL.	9-10-13	71.11
T	RAY A. WHEITZEL JR., ET AL.	9-11-5	106.89
U	MARGARET K. FOX - LIFE	9-11-2	84.37

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	129'	596.32'	S 43°52' W	128.75'
C2	171.3'	247.44'	S 12°21' W	167.9'
C3	440.19'	1054.22'	S 18°14' E	437'

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
FILE NO. 8703AD13HUR.dwg SCALE 1" = 2000'
DATE OCTOBER 17, 2018
REVISED SEPTEMBER 6, 2019
OPERATORS WELL NO. HEAVEN HILL 2W-13HU
API WELL NO. 47 - 51 - 01957
STATE COUNTY PERMIT

P.O. Box 150 | 12 Veterans Drive | Glenview, WV 26031 | (304) 462-9634
www.slsurvey.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*

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

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NAD83 UTM (M) N 4,403,960.5 E 524,813.1

LEGEND

LEASE LINE	--- --- --- --- ---	COUNTY ROUTE	00-00
SURFACE LINE	---	PROPOSED WELL	⊙
DEEP WELL LATERAL WITHIN 3,000'	---	EXISTING WELL	⊙
WELL LATERAL	---	PERMITTED WELL	⊙
OFFSET LINE	---	TAX MAP-PARCEL	⊙
TIE LINE	---	LEASE # (SEE PGS. 1 & 3)	⊙
CREEK	→	SURFACE OWNER (SEE TABLE)	⊙
ROAD	---		

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

FOBI NORTH TX 20101

CHARLESTON WV 25313

ADDRESS 1350 SOUTH UNIVERSITY DRIVE SUITE 200
MEG OPERATOR THE HIGG OPERATING LLC

ADDRESS 2400 D BIG LAGER ROAD
DESIGNATED AGENT CI CORPORATION SYSTEM
DANNA STAMBER

NAD83 UTM (N) I: 47008002 E: 25481374
 NAD83 GEO: UTM (N) 38188530 GONG (M) 80311018
 NAD83 SFC (E) I: 47008000 E: 470524114
 BOTTOM HOLE
 NAD83 UTM (N) I: 47008000 E: 25388492
 NAD83 GEO: UTM (N) 38188530 GONG (M) 80311455
 NAD83 SFC (E) I: 47008000 E: 470523330
 FLOWING POINT
 NAD83 UTM (N) I: 47008000 E: 25482128
 NAD83 GEO: UTM (N) 38188530 GONG (M) 80311585
 NAD83 SFC (E) I: 47008000 E: 470523288
 (SFC NORTH ZONE) (UTM(N) ZONE 17 NORTH)

ROAD: - - - - -
 CREEK: ~ ~ ~ ~ ~
 DIE PINE: - - - - -
 OFFSET PINE: - - - - -
 METT GATEWAY: - - - - -
 WITHIN 2000: - - - - -
 DEEP METT GATEWAY: - - - - -
 SURFACE PINE: - - - - -
 GEYSE PINE: - - - - -

SURFACE OWNERS (SEE TABLE)
 GEYSE # (SEE PAGE 1 & 2)
 TAX MAP-BYSET
 EXISTING METT
 PROPOSED METT
 COUNTY ROUTE

LEGEND

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



STATE: 21
COUNTY: 21
PERMIT NO: 47-21-01827

OPERATORS METT NO: HEAVEN HIGG SW-13HU
REVISED: SEPTEMBER 8, 2018
DATE: OCTOBER 11, 2018
FILE NO: 03A03478



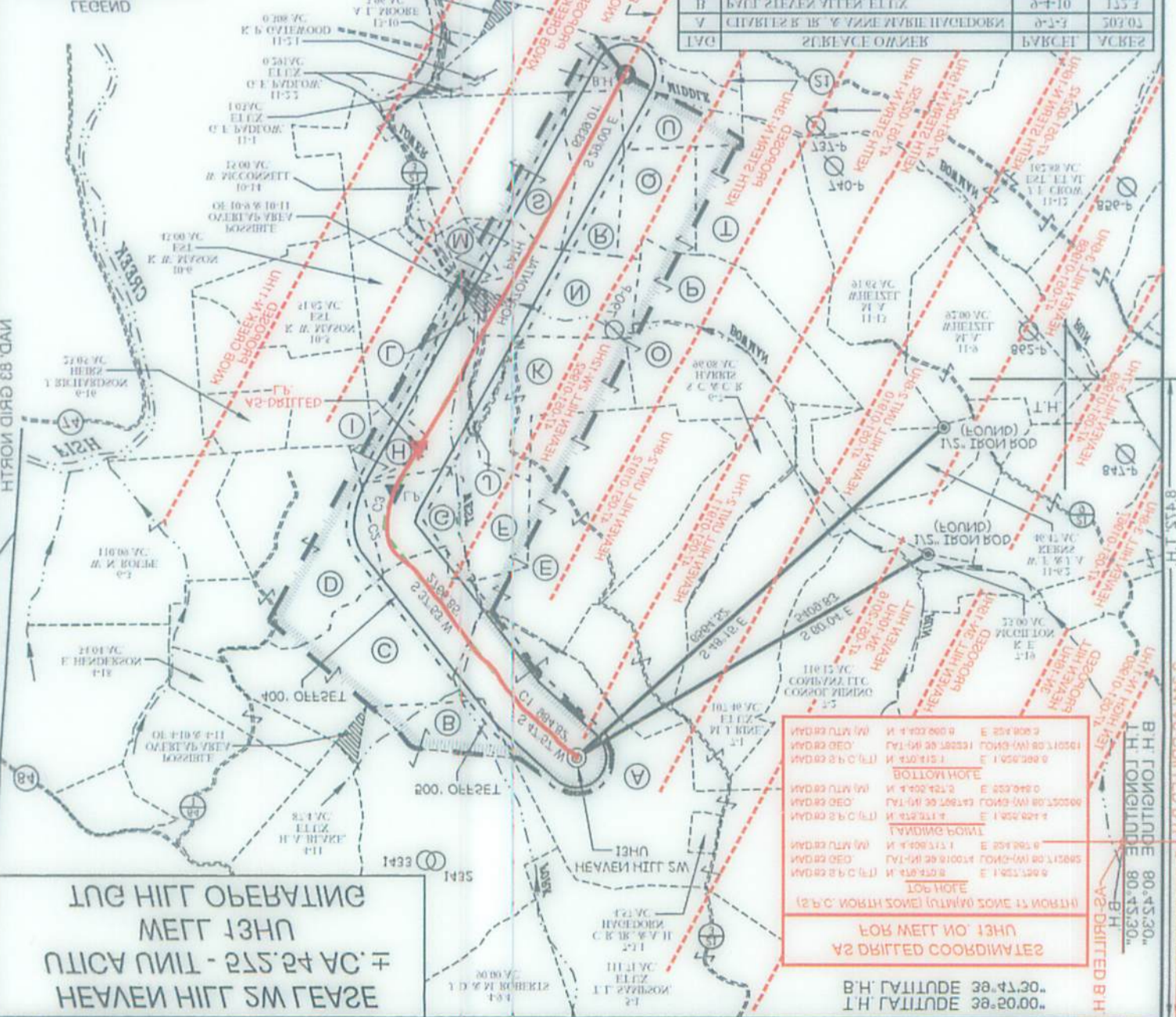
848
82'
PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION
REQUIRING BY GWM AND THE REGULATIONS ISSUED AND
AND BEGINS AND SHOWS ALL THE INFORMATION
THAT IS CORRECT TO THE BEST OF MY KNOWLEDGE
I THE UNDERSIGNED HEREBY CERTIFY THAT THIS



C3	440'±	1024'±	2 18.14' E	431'
C5	111'±	541'±	2 15.51' W <td>101'±</td>	101'±
C1	158'	288'±	2 43.25' W <td>158'±</td>	158'±

LINE	DESCRIPTION	DATE	BY
1	BY A. H. HIGGINS	8-11-12	100380
2	BY A. H. HIGGINS	8-10-12	11111
3	BY A. H. HIGGINS	8-10-12	20111
4	BY A. H. HIGGINS	8-11-12	22111

PROPOSED: - - - - -
AS DRILLED: - - - - -



LINE	DESCRIPTION	DATE	BY
1	BY D. KELLY & B. R. HIGGINS	8-9-15	2400
2	BY D. KELLY & B. R. HIGGINS	8-9-15	2400
3	BY D. KELLY & B. R. HIGGINS	8-9-15	2400
4	BY D. KELLY & B. R. HIGGINS	8-9-15	2400
5	BY D. KELLY & B. R. HIGGINS	8-9-15	2400
6	BY D. KELLY & B. R. HIGGINS	8-9-15	2400
7	BY D. KELLY & B. R. HIGGINS	8-9-15	2400
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47	BY D. KELLY & B. R. HIGGINS	8-9-15	2400
48	BY D. KELLY & B. R. HIGGINS	8-9-15	2400
49	BY D. KELLY & B. R. HIGGINS	8-9-15	2400
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99	BY D. KELLY & B. R. HIGGINS	8-9-15	2400
100	BY D. KELLY & B. R. HIGGINS	8-9-15	2400

THE HIGG OPERATING
METT 13HU
UTICA UNIT - 27.24 AC ±
HEAVEN HIGG SW GEYSE

NAD83 UTM (N) I: 47008000 E: 25481374
 NAD83 GEO: UTM (N) 38188530 GONG (M) 80311018
 NAD83 SFC (E) I: 47008000 E: 470524114
 BOTTOM HOLE
 NAD83 UTM (N) I: 47008000 E: 25388492
 NAD83 GEO: UTM (N) 38188530 GONG (M) 80311455
 NAD83 SFC (E) I: 47008000 E: 470523330
 FLOWING POINT
 NAD83 UTM (N) I: 47008000 E: 25482128
 NAD83 GEO: UTM (N) 38188530 GONG (M) 80311585
 NAD83 SFC (E) I: 47008000 E: 470523288
 (SFC NORTH ZONE) (UTM(N) ZONE 17 NORTH)

B.H. LONGITUDE 80.4530.
 T.H. LONGITUDE 80.4530.
 B.H. LATITUDE 38.4130.
 T.H. LATITUDE 38.2000.

**HEAVEN HILL 2W LEASE
UTICA UNIT - 572.54 AC. ±
WELL 13HU
TUG HILL OPERATING**

No.	Lease Name or No.	Tag	Parcel	Grantor, Lessee, etc.	Continued	Deed Book/Page
76	10*15514	M	9-10-9	FALL CROW		718 336
77	10*15515	M	9-10-9	DEBURE CROW		718 334
78	10*15516	M	9-10-9	ROSE MARIE KRUGOWSKI		718 334
79	10*15517	M	9-10-9	DIANNE GELNER & GARY GELNER		718 345
80	10*15518	M	9-10-9	JAMES F HOLIDAY AND JACQUELINE HOLIDAY		718 347
81	10*15519	M	9-10-9	JOHN CROW		726 580
82	10*15520	M	9-10-9	TIMOTHY CROW		726 582
83	10*47051 123.1	M	9-10-9	LOYD G BAKER		865 389
84	10*47051 123.2	M	9-10-9	JAMES F HOLIDAY AND JACQUELINE HOLIDAY		873 143
85	10*15530	N	9-10-11	FLAINE PHILIPS TVR		718 376
86	10*15531	N	9-10-11	DAVID E CROW		718 376
87	10*15532	N	9-10-11	FRANCES COFFEY		718 378
88	10*15533	N	9-10-11	KAY KEYS		718 330
89	10*15534	N	9-10-11	FALL CROW		718 336
90	10*15535	N	9-10-11	DEBURE CROW		718 334
91	10*15536	N	9-10-11	ROSE MARIE KRUGOWSKI		718 334
92	10*15537	N	9-10-11	DIANNE GELNER & GARY GELNER		718 345
93	10*15538	N	9-10-11	JAMES F HOLIDAY AND JACQUELINE HOLIDAY		718 347
94	10*15539	N	9-10-11	JOHN CROW		726 580
95	10*15540	N	9-10-11	TIMOTHY CROW		726 582
96	10*47051 123.1	N	9-10-11	LOYD G BAKER		865 389
97	10*47051 123.2	N	9-10-11	JAMES F HOLIDAY AND JACQUELINE HOLIDAY		873 143
98	10*15540	O	9-6-8	FLAINE PHILIPS TVR		718 376
99	10*15541	O	9-6-8	DAVID E CROW		718 376
100	10*15542	O	9-6-8	FRANCES COFFEY		718 378
101	10*15543	O	9-6-8	KAY KEYS		718 330
102	10*15544	O	9-6-8	FALL CROW		718 336
103	10*15545	O	9-6-8	DEBURE CROW		718 334
104	10*15546	O	9-6-8	ROSE MARIE KRUGOWSKI		718 334
105	10*15547	O	9-6-8	DIANNE GELNER & GARY GELNER		718 345
106	10*15548	O	9-6-8	JAMES F HOLIDAY AND JACQUELINE HOLIDAY		718 347
107	10*15549	O	9-6-8	JOHN CROW		726 580
108	10*15550	O	9-6-8	TIMOTHY CROW		726 582
109	10*47051 123.1	O	9-6-8	LOYD G BAKER		865 389
110	10*47051 123.2	O	9-6-8	JAMES F HOLIDAY AND JACQUELINE HOLIDAY		873 143
111	10*15557	P	9-11-4	RHEG INVESTMENTS LLC WITH R KIMBLE		867 550
112	10*15561	Q	9-11-3	VICKIE MASON		682 413
113	10*15562	Q	9-11-3	MARY A SOUTH		682 411
114	10*15563	Q	9-11-3	MARIE L WHITZEL		682 564
115	10*15564	Q	9-11-3	RAY A WHITZEL JR		682 566
116	10*15565	Q	9-11-3	ROBERT L WHITZEL		682 552
117	10*15566	Q	9-11-3	SHARON L WHITZEL		682 556
118	10*47051 108.1	Q	9-11-3	MICHAEL A WHITZEL		885 51
119	10*47051 108.5	Q	9-11-3	BRENDA J WHITZEL		885 55
120	10*47051 108.6	Q	9-11-3	TERRI MCCARDELE		895 21
121	10*47051 108.7	Q	9-11-3	GARY FRANCIS WHITZEL		895 26
122	10*15571	R	9-10-17	VICKIE MASON		682 405
123	10*15572	R	9-10-17	MARY A SOUTH		682 414
124	10*15573	R	9-10-17	MARIE L WHITZEL		682 564
125	10*15574	R	9-10-17	RAY A WHITZEL JR		682 566
126	10*15575	R	9-10-17	ROBERT L WHITZEL		682 552
127	10*15576	R	9-10-17	SHARON L WHITZEL		682 560
128	10*15724	R	9-10-12	JAMES RODNEY BRIGGS		901 325
129	10*15725	R	9-10-12	ROGER JACOB BRIGGS		901 318
130	10*15726	R	9-10-12	JOHN DEAN BRIGGS AND PATTY KAY BRIGGS		901 321
131	10*16079	R	9-10-12	LENN ASTON DIVOR		904 365
132	10*16236	R	9-10-12	FRANCIS F RUSSELL		907 196
133	10*16237	R	9-10-12	GREGORY J ASTON AND TAMMY E ASTON		907 149
134	10*16275	R	9-10-12	JEFFREY A ASTON		907 183
135	10*47051 108.1	R	9-10-12	MICHAEL A WHITZEL		885 51
136	10*47051 108.25	R	9-10-12	PATRICIA ANN MCCOUGAL		901 306
137	10*47051 108.35	R	9-10-12	STEVEN L ASTON		901 306
138	10*47051 108.51	R	9-10-12	FRED YERNS		901 296
139	10*47051 108.56	R	9-10-12	YVONNE K BOBERT		901 300
140	10*47051 108.57	R	9-10-12	CARL E ASTON		901 304
141	10*47051 108.78	R	9-10-12	CAROLYN SUE WELLS		901 310
142	10*47051 108.41	R	9-10-12	ELMER ASTON		901 296
143	10*47051 108.48	R	9-10-12	WILLIAM ASTON		901 312
144	10*47051 108.5	R	9-10-12	BRENDA J WHITZEL		885 55
145	10*47051 108.52	R	9-10-12	DAVID U ASTON ESTATE BY EXECUTOR DAWN R MARKS		901 314
146	10*47051 108.52	R	9-10-12	CONNIE N ASTON		901 316
147	10*47051 108.53	R	9-10-12	MARY JANE KYLE		901 339
148	10*47051 108.56	R	9-10-12	PAULA HURDL		901 347
149	10*47051 108.57	R	9-10-12	ROBERT B KERNS		901 349
150	10*47051 108.58	R	9-10-12	RONALD W KERNS		901 341
151	10*47051 108.59	R	9-10-12	PAUL UYSES KERNS ESTATE SALVATORE P PUGUSI EXECUTOR		901 343
152	10*47051 108.6	R	9-10-12	TERRI MCCARDELE		895 21
153	10*47051 108.61	R	9-10-12	AMANDA FEIGH		895 25
154	10*47051 108.7	R	9-10-12	GARY FRANCIS WHITZEL		895 26
155	10*47051 108.73	R	9-10-12	JOHN ASTON JR		901 351
156	10*47051 108.77	R	9-10-12	SHONDA WOOD		901 356
157	10*47051 108.78	R	9-10-12	DONNA WOODS MOODY		901 354
158	10*47051 108.79	R	9-10-12	MARK A ASTON		901 358
159	10*47051 108.81	R	9-10-12	KENNETH CHEPPS		899 20
160	10*15567	S	9-10-13	VICKIE MASON		682 409
161	10*15568	S	9-10-13	MARY A SOUTH		682 410
162	10*15569	S	9-10-13	MARIE L WHITZEL		682 564
163	10*15570	S	9-10-13	RAY A WHITZEL JR		682 566
164	10*15571	S	9-10-13	SHARON L WHITZEL		682 560
165	10*15572	S	9-10-13	ROBERT L WHITZEL		682 552
166	10*15724	S	9-10-13	JAMES RODNEY BRIGGS		901 325
167	10*15725	S	9-10-13	ROGER JACOB BRIGGS		901 318
168	10*15726	S	9-10-13	JOHN DEAN BRIGGS AND PATTY KAY BRIGGS		901 321
169	10*16079	S	9-10-13	LENN ASTON DIVOR		904 365
170	10*16236	S	9-10-13	FRANCIS F RUSSELL		907 196
171	10*16237	S	9-10-13	GREGORY J ASTON AND TAMMY E ASTON		907 149
172	10*16275	S	9-10-13	JEFFREY A ASTON		907 183
173	10*47051 108.1	S	9-10-13	MICHAEL A WHITZEL		885 51
174	10*47051 108.29	S	9-10-13	PATRICIA ANN MCCOUGAL		901 306
175	10*47051 108.35	S	9-10-13	STEVEN L ASTON		901 306

No.	Lease Name or No.	Tag	Parcel	Grantor, Lessee, etc.	Continued	Deed Book/Page
176	10*47051 108.31	S	9-10-13	FRED YERNS		901 298
177	10*47051 108.36	S	9-10-13	YVONNE K BOBERT		901 300
178	10*47051 108.37	S	9-10-13	CARL E ASTON		901 304
179	10*47051 108.38	S	9-10-13	CAROLYN SUE WELLS		901 310
180	10*47051 108.41	S	9-10-13	ELMER ASTON		901 296
181	10*47051 108.48	S	9-10-13	WILLIAM ASTON		901 312
182	10*47051 108.5	S	9-10-13	BRENDA J WHITZEL		885 55
183	10*47051 108.52	S	9-10-13	DAVID U ASTON ESTATE BY EXECUTOR DAWN R MARKS		901 314
184	10*47051 108.52	S	9-10-13	CONNIE N ASTON		901 316
185	10*47051 108.53	S	9-10-13	MARY JANE KYLE		901 339
186	10*47051 108.56	S	9-10-13	PAULA HURDL		901 347
187	10*47051 108.57	S	9-10-13	ROBERT B KERNS		901 349
188	10*47051 108.58	S	9-10-13	RONALD W KERNS		901 341
189	10*47051 108.59	S	9-10-13	PAUL UYSES KERNS ESTATE SALVATORE P PUGUSI EXECUTOR		901 343
190	10*47051 108.6	S	9-10-13	TERRI MCCARDELE		895 21
191	10*47051 108.61	S	9-10-13	AMANDA FEIGH		901 25
192	10*47051 108.7	S	9-10-13	GARY FRANCIS WHITZEL		895 26
193	10*47051 108.73	S	9-10-13	JOHN ASTON JR		901 351
194	10*47051 108.77	S	9-10-13	SHONDA WOOD		901 356
195	10*47051 108.78	S	9-10-13	DONNA WOODS MOODY		901 354
196	10*47051 108.79	S	9-10-13	MARK A ASTON		901 358
197	10*47051 108.81	S	9-10-13	KENNETH CHEPPS		899 20
198	10*15564	T	9-11-3	VICKIE MASON		682 409
199	10*15565	T	9-11-3	MARY A SOUTH		682 410
200	10*15566	T	9-11-3	MARIE L WHITZEL		682 564
201	10*15567	T	9-11-3	RAY A WHITZEL JR		682 566
202	10*15568	T	9-11-3	SHARON L WHITZEL		682 560
203	10*15569	T	9-11-3	ROBERT L WHITZEL		682 552
204	10*47051 108.1	T	9-11-3	MICHAEL A WHITZEL		885 51
205	10*47051 108.5	T	9-11-3	BRENDA J WHITZEL		885 55
206	10*47051 108.52	U	9-11-2	MARY A FOX		870 222
207	10*47051 108.53	U	9-11-2	PAUL G FOX		870 225
208	10*47051 108.53	U	9-11-2	MARIE L FOX		870 228
209	10*47051 108.54	U	9-11-2	DAVID E FOX		870 23
210	10*47051 108.55	U	9-11-2	LOUIS T FOX		870 26
211	10*47051 108.6	U	9-11-2	THOMAS J FOX		870 21

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JUL 10 2020
WV Department of
Environmental Protection

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Solutions from the ground up.
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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
FILE NO. 8703AD13HUR.dwg SCALE 1" = 200'
DATE OCTOBER 17, 20 18
REVISED SEPTEMBER 6, 20 19
OPERATORS WELL NO. HEAVEN HILL 2W-13HU
API WELL NO. 47 - 51 - 01957
STATE COUNTY PERMIT

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

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

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
DIANNA STAMPER
DESIGNATED AGENT CT CORPORATION SYSTEM
ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

COUNTY NAME
PERMIT