

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

RECEIVED
Office of Oil and Gas
SEP 30 2022
WV Department of
Environmental Protection

API 47 - 051 - 02242 County Marshall District Mead
Quad Glen Easton 7.5' Pad Name Keith Stern Field/Pool Name _____
Farm name TH Exploration, LLC Well Number Keith Stern N-16HU
Operator (as registered with the OOG) Tug Hill Operating, LLC
Address 380 Southpointe Boulevard, Plaza II, Suite 200 City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,402,814.20 Easting 526,364.33
Landing Point of Curve Northing 4,402,936.5 Easting 526,170.5
Bottom Hole Northing 4,404,694.6 Easting 526,144.8

Elevation (ft) 744.65' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)
SOBM; Base oil, osmotic inhibitor, weighting agent, viscosifier, emulsifier, hardness buffer, fluid loss additive, LCM, Shale inhibitor, de-foamer, soaping agent, coagulant, flocculant; specific additives per WSSP and Permit.

Date permit issued 10/22/2019 Date drilling commenced conductor: 11/6/19, big rig: 3/7/2020 Date drilling ceased 4/21/2020
Date completion activities began 8/17/2021 Date completion activities ceased 9/5/2021
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 426' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 922' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 340-346', 433-439' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

APPROVED
Reviewed by:
SG
10/14/2022
STRADLER GOWEN

API 47-051 - 02242 Farm name TH Exploration, LLC Well number Keith Stern N-16HU

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	36"	30"	120'	NEW	94.5#	N/A	Y
Surface	26"	20"	508'	NEW	106.5#	N/A	Y
Coal							
Intermediate 1	17 1/2"	13 3/8"	2,240'	NEW	54.5#	N/A	Y
Intermediate 2	12 1/4"	9 5/8"	10,585'	NEW	47#	N/A	Y
Intermediate 3							
Production	8 1/2"	5 1/2"	19,124'	NEW	23#	N/A	Y
Tubing		2 7/8"	9,562'	NEW	4.7#	N/A	Y
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	A	400	15.6	1.2	449	0	8
Surface	A	586	15.6	1.2	1,147	0	8
Coal							
Intermediate 1	A	1,864	15.6	1.19	2,200	0	8
Intermediate 2	A	4,259	14.5	1.19	4,962	0	8
Intermediate 3							
Production	A	5,799	16.5	1.17	6,137	0	8
Tubing							

Drillers TD (ft) 19,156' Loggers TD (ft) n/a
 Deepest formation penetrated Trenton Plug back to (ft) n/a
 Plug back procedure n/a

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Kick off depth (ft) 10,767'

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Check all wireline logs run
 caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING 3 centralizers on surface casing at equal distance.
Intermediate - 1 centralizer every other joint.
 Production - one centralizer every other joint in lateral, one centralizer every joint through curve, one centralizer every other joint to surface.

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

Keith Stern N-16HU
STIMULATION INFORMATION PER STAGE

Stage No.	Ave. Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	89.08	11,632	9903	7893	248500	6,595	0
2	90.36	11,499	8265	8046	500900	7,808	0
3	85.86	11,282	9395	8154	503900	7,916	0
4	87.89	11,604	9742	7801	421540	7,289	0
5	84.27	11,366	9406	7575	504100	7,887	0
6	90.13	11,703	9624	8018	494920	7,805	0
7	83.39	11,248	10080	8216	506720	8,129	0
8	84.98	11,113	9406	8239	501660	7,878	0
9	85.36	11,102	10905	8258	506260	8,235	0
10	85.10	11,200	9321	7797	506440	7,867	0
11	87.44	11,252	9202	8188	501280	7,750	0
12	83.57	11,019	9487	7169	507560	7,924	0
13	86.51	11,008	9568	8139	495020	7,719	0
14	88.03	11,149	10193	8244	506960	7,854	0
15	84.90	11,066	10281	8007	508920	7,972	0
16	87.83	11,196	9114	7986	502620	7,718	0
17	88.30	11,022	9540	8598	507820	7,817	0
18	87.68	10,724	8886	8095	504340	7,755	0
19	88.46	10,309	8855	8292	505700	7,748	0
20	85.57	10,320	8990	7848	508420	7,776	0
21	88.09	10,344	9696	8149	500180	7,731	0
22	88.81	10,880	9509	7923	509100	7,769	0
23	88.39	10,583	8638	8186	500240	7,717	0
24	87.15	10,761	10135	7914	510180	7,859	0
25	88.71	10,873	10185	8667	508600	7,809	0
26	87.71	10,881	9930	8185	501300	7,749	0
27	88.52	10,798	10812	8537	502060	7,680	0
28	88.47	11,161	10254	8553	496600	7,620	0
29	89.57	11,123	10110	7902	501100	7,645	0
30	89.06	11,098	10538	7943	507660	7,726	0
31	87.01	10,905	9544	8265	501300	7,602	0
32	88.10	10,939	10250	8200	503960	7,782	0

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Stage No.	Ave. Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
33	87.19	10,838	9742	8496	503900	7,942	0
34	88.69	11,089	10139	8064	500940	7,521	0

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**Keith Stern N-16HU
PEFORATION RECORD**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
1	8/17/2021	9903	7893	48	0
2	8/18/2021	8265	8046	48	0
3	8/18/2021	9395	8154	48	0
4	8/19/2021	9742	7801	48	0
5	8/19/2021	9406	7575	48	0
6	8/20/2021	9624	8018	48	0
7	8/20/2021	10080	8216	48	0
8	8/21/2021	9406	8239	48	0
9	8/21/2021	10905	8258	48	0
10	8/22/2021	9321	7797	48	0
11	8/22/2021	9202	8188	48	0
12	8/23/2021	9487	7169	48	0
13	8/23/2021	9568	8139	48	0
14	8/24/2021	10193	8244	48	0
15	8/24/2021	10281	8007	48	0
16	8/25/2021	9114	7986	48	0
17	8/25/2021	9540	8598	48	0
18	8/26/2021	8886	8095	48	0
19	8/26/2021	8855	8292	48	0
20	8/27/2021	8990	7848	48	0
21	8/28/2021	9696	8149	48	0
22	8/28/2021	9509	7923	48	0
23	8/29/2021	8638	8186	48	0
24	8/29/2021	10135	7914	48	0
25	8/30/2021	10185	8667	48	0
26	8/30/2021	9930	8185	48	0
27	8/31/2021	10812	8537	48	0
28	9/1/2021	10254	8553	48	0
29	9/2/2021	10110	7902	48	0
30	9/2/2021	10538	7943	48	0
31	9/3/2021	9544	8265	48	0
32	9/4/2021	10250	8200	48	0
33	9/4/2021	9742	8496	48	0
34	9/5/2021	10139	8064	48	0

10/14/2022

Keith Stern N-16HU

LITHOLOGY/FORMATION	TOP DEPTH IN FT/ Name TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID
Maxton	1503	1647	1503	1647	Sandstone
Big Lime	1647	1701	1647	1702	Limestone
Big Injun	1701	1960	1702	1961	Sandstone
Weir	1960	2152	1961	2153	Sandstone
Berea	2152	2417	2153	2418	Sandstone
Gordon	2417	2512	2418	2513	Sandstone
Fifty Foot	2512	3148	2513	3151	Sandstone
Speechley	3148	4597	3151	4667	Sandstone
Benson	4597	4990	4667	5083	Sandstone
Alexander	4990	5628	5083	5762	Siltstone
Rhinestreet	5628	6068	5762	6231	Black Shale
Middlesex	6068	6142	6231	6308	Black Shale
Geneseo/Burkett	6142	6173	6308	6340	Black Shale
Tully	6173	6208	6340	6376	Limestone
Hamilton	6208	6278	6376	6448	Gray Shale
Marcellus	6278	6329	6448	6500	Black Shale
Onondaga	6329	6568	6500	6746	Limestone
Oriskany	6568	6678	6746	6860	Sandstone
Helderberg	6678	7054	6860	7264	Limestone
Salina	7054	8107	7264	8426	Salt/Anhydrite/LS
Lockport	8107	8489	8426	8845	Dolomite
Rose Hill	8489	8767	8845	9154	Shale
Packer Shell	8767	8979	9154	9390	Limestone
Clinton/Tuscarora	8979	9092	9390	9514	Sandstone
Juniata/Queenston	9092	9888	9514	10392	Red Shale
Reedsville	9888	10990	10392	11630	Gray Shale
Utica	10990	11252	11630	12130	Black Shale
Point Pleasant	11252	-	12130	-	Shale/Limestone

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/17/2021
Job End Date:	9/5/2021
State:	West Virginia
County:	Marshall
API Number:	47-051-02242-00-00
Operator Name:	Tug Hill Operating, LLC
Well Name and Number:	Keith Sterns N 16HU
Latitude:	39.77485561
Longitude:	-80.69214745
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	11,237
Total Base Water Volume (gal):	11,070,948
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Tug Hill Operating	Carrier/Base Fluid	Water	7732-18-5	100.00000	84.27508	None
Sand (40/70 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	11.96268	None
Sand (100 Mesh Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	3.35372	None
Hydrochloric Acid (7.5%)	CNR	Acidizing	Water	7732-18-5	85.00000	0.24263	None
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.10562	None
StimStream FR 9800	Chemstream	Friction Reducer	Alkanes, C16-20-iso-	90622-59-6	25.00000	0.01963	None
			Butene, homopolymer	9003-29-6	25.00000	0.01963	None
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00236	None
MC MX 9-4743	Multi-Chem	Biocide	Sodium Nitrate	7631-99-4	60.00000	0.02082	None
LD-7750W	Multi-Chem	Scale Inhibitor					

			Methanol	67-56-1	60.00000	0.00476	None
			Phosphonic Acid Salt	Proprietary	5.00000	0.00040	None
ProHib 100	CNR	Acid Inhibitor					
			2-Butoxyethanol	111-76-2	60.00000	0.00053	None
			Proprietary material	Proprietary	30.00000	0.00026	None
			Proprietary non-ionic surfactant	Proprietary	20.00000	0.00018	None
			Proprietary ethoxylated alcohol	Proprietary	10.00000	0.00009	None
			Proprietary corrosion inhibitor	Proprietary	10.00000	0.00009	None
ProFE 105	CNR	Iron Control					
			Citric Acid	77-92-9	20.00000	0.00021	None
			Acetic Acid	64-19-7	5.00000	0.00005	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	85.00000	0.24263	
			Butene, homopolymer	9003-29-6	25.00000	0.01963	
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00236	
			Phosphonic Acid Salt	Proprietary	5.00000	0.00040	
			Proprietary material	Proprietary	30.00000	0.00026	
			Proprietary non-ionic surfactant	Proprietary	20.00000	0.00018	
			Proprietary corrosion inhibitor	Proprietary	10.00000	0.00009	
			Proprietary ethoxylated alcohol	Proprietary	10.00000	0.00009	
			Acetic Acid	64-19-7	5.00000	0.00005	

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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**KEITH STERN N LEASE
UTICA UNIT - 631.99 AC ±
WELL 16HU
TUG HILL OPERATING**

7,859' B.H. A.D.

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. 466,565.03	E. 1,633,438.61
NAD'83 GEO.	LAT-(N) 39.774856	LONG-(W) 80.692147
NAD'83 UTM (M)	N. 4,402,814.20	E. 526,364.33
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 466,820.3	E. 1,636,132.1
NAD'83 GEO.	LAT-(N) 39.775654	LONG-(W) 80.682577
NAD'83 UTM (M)	N. 4,402,905.7	E. 527,183.6
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 472,750.3	E. 1,632,841.9
NAD'83 GEO.	LAT-(N) 39.791813	LONG-(W) 80.694563
NAD'83 UTM (M)	N. 4,404,695.5	E. 526,151.0

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

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-13-11.1	SAMUEL & HEATHER SUHODOLSKI	0.49
9-13-14	MARGARET K. FOX - LIFE	3.00
9-14-1.1	MICHAEL L. ALVAREZ	1.6
9-14-1.2	KENNETH N. & TERESA A. SMERTNECK	1.02
9-14-2	MICHAEL L. ALVAREZ	0.75
9-14-3	MICHAEL L. ALVAREZ	NORTH P/O 3 PCLS
9-14-4	MICHAEL L. ALVAREZ	3 PCLS & 1/8 AC.
9-14-5	MICHAEL L. ALVAREZ	200 X 60 PCL
9-14-6	MICHAEL L. ALVAREZ	120 X 200 PCL
9-14-7	JOHN T. ERAZMUS, III	0.25
9-14-8	JOHNNY C. HOLCOMB & JOHNNY C. HOLCOMB II	2/5 AC.
9-14-9	JOHN E. DUFFY, ET UX	2/5 AC.
9-14-10	ROBERT I. DUFFY - LIFE	25/100 AC.
9-14-11.1	PATRICK J. SCHELLHASE EST - TRUST	7.617
9-14-11.2	LOYE A. BLAKE	4.00
9-14-26	PATRICK J. SCHELLHASE EST - TRUST	12.588
9-14-27	PATRICK J. SCHELLHASE EST - TRUST	3.004
9-14-28	CHARLES R. SCHELLHASE, ET UX	3.029
9-14-45	GEORGE R. TAYLOR, ET UX	10.98
9-14-46.1	MARHA JANE FAZZARO	1.512
9-15-40	ROBERT WILLIAM BERISFORD	13.50
9-15-41	CHARLES RICHARD MCCOY, ET UX	4.50
9-15-42	ROBERT MATHEW MASON	2.63

T.H. A.D.

NOTES ON SURVEY

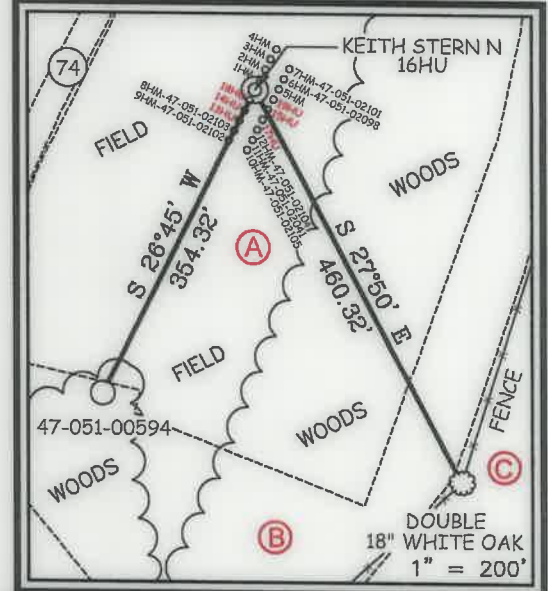
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS > 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1"=2000'
- PROPOSED LATERAL OR TOP HOLE OF THE KEITH STERN N-16HU IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF THE FOLLOWING:
PROPOSED KEITH STERN N-13HU, 14HU & 15HU,
PROPOSED KEITH STERN S-17HU, 18HU & 19HU,
PROPOSED KNOB CREEK N-13HU,
PROPOSED KNOB CREEK S-16HU,
PROPOSED HEAVEN HILL 3-6HU & 7HU,
HEAVEN HILL 2W-12HU (47-051-01952),
HEAVEN HILL 2-6HU (47-051-01910),
HEAVEN HILL 2-7HU (47-051-01911)
& HEAVEN HILL 2-8HU (47-051-01912)
- AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
- PLAT UPDATED TO SHOW AS-DRILLED PATH.

**AS DRILLED COORDINATES
FOR WELL NO. 16HU**

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

NAD'83 S.P.C.(FT)	N. 466,565.03	E. 1,633,438.61
NAD'83 GEO.	LAT-(N) 39.774856	LONG-(W) 80.692147
NAD'83 UTM (M)	N. 4,402,814.20	E. 526,364.33
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 466,922.2	E. 1,636,090.7
NAD'83 GEO.	LAT-(N) 39.775932	LONG-(W) 80.682729
NAD'83 UTM (M)	N. 4,402,836.5	E. 527,170.5
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 472,747.5	E. 1,632,821.2
NAD'83 GEO.	LAT-(N) 39.791805	LONG-(W) 80.694636
NAD'83 UTM (M)	N. 4,404,694.6	E. 526,144.8

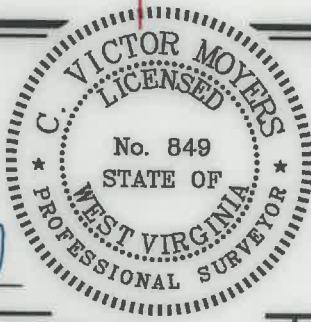
REFERENCES



B.H. A.D.



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. 849 *C. Victor Moyers*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE JUNE 11, 20 20

REVISED _____, 20 _____

OPERATORS WELL NO. KEITH STERN N-16HU

API WELL NO. 47 - 051 - 2242

STATE WEST VIRGINIA COUNTY MARSHALL PERMIT 10/14/2022

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8811P16HUAD.dwg

HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

KEITH STERN N-16HU-REV2

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 = 741.40' ELEVATION PROPOSED = 744.65' WATERSHED FISH CREEK (HUC 10)

DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER TH EXPLORATION, LLC ACREAGE 10.05±

ROYALTY OWNER TH EXPLORATION, LLC, ET AL - SEE WW-6A1 ACREAGE 10.05±

PROPOSED WORK: 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: 11,413' / TMD: 19,148'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER

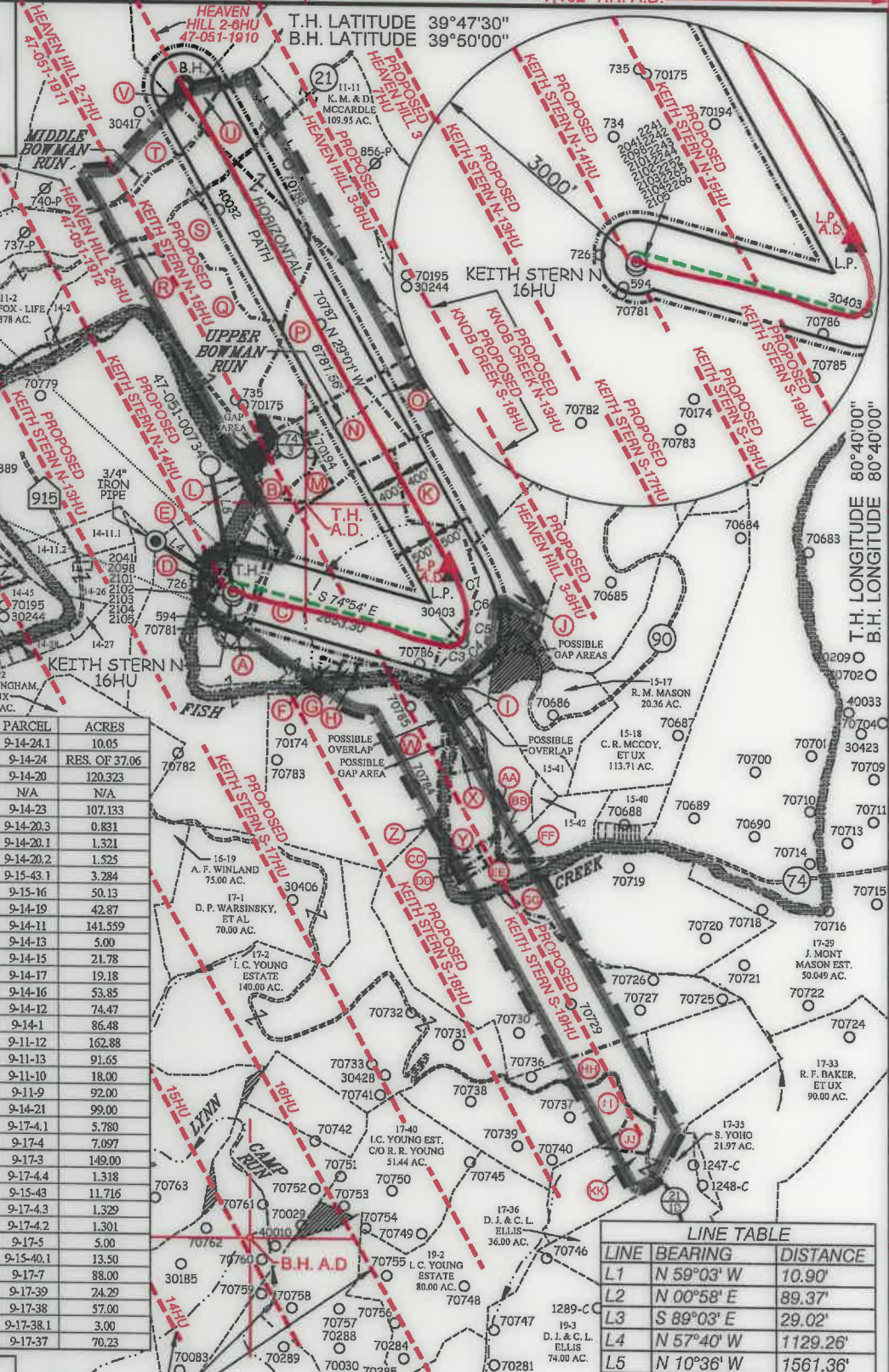
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS CT CORPORATION SYSTEM

FORT WORTH, TX 76107 ADDRESS 5400 D BIG TYLER ROAD

CHARLESTON, WV 25313

COUNTY NAME PERMIT

**KEITH STERN N LEASE
UTICA UNIT - 631.99 AC ±
WELL 16HU
TUG HILL OPERATING**



TAG	SURFACE OWNER	PARCEL	ACRES
A	TH EXPLORATION, LLC	9-14-24.1	10.05
B	WILLIAM K. STERN, ET UX	9-14-24	RES. OF 37.06
C	WILLIAM K. STERN, ET UX	9-14-20	120.323
D	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
E	WILLIAM K. STERN, ET UX	9-14-23	107.133
F	WILLIAM K. STERN, ET UX	9-14-20.3	0.831
G	WILLIAM K. STERN, ET UX	9-14-20.1	1.321
H	WILLIAM K. STERN, ET UX	9-14-20.2	1.525
I	MARGARET A. TOLER - LIFE, ET AL	9-15-43.1	3.284
J	WILLIAM K. & BETTY L. STERN	9-15-16	50.13
K	DAVID P. CHAPMAN	9-14-19	42.87
L	HOY GLENN CROW	9-14-11	141.559
M	JOHN DANIEL DOBBS & GARY LEE DOBBS	9-14-13	5.00
N	JOHN DANIEL DOBBS & GARY LEE DOBBS	9-14-15	21.78
O	TH EXPLORATION, LLC	9-14-17	19.18
P	BRADLEY CROW, ET AL	9-14-16	53.85
Q	CONSOLIDATION COAL COMPANY MURRAY ENERGY	9-14-12	74.47
R	SAMUEL & HEATHER SUHODOLSKI	9-14-1	86.48
S	J. F. CROW ESTATE, ET AL	9-11-12	162.88
T	MICHAEL A. WHETZEL	9-11-13	91.65
U	ROBERT L. CLARK	9-11-10	18.00
V	MICHAEL A. WHETZEL	9-11-9	92.00
W	ELEANORE M. FOX ESTATE	9-14-21	99.00
X	DAVID M. FRABRIZIO	9-17-4.1	5.780
Y	PHILLIP L. MCCABE	9-17-4	7.097
Z	KENNETH E. JANISZEWSKI, ET UX	9-17-3	149.00
AA	MARGARET A. TOLER - LIFE	9-17-4.4	1.318
BB	PHILLIP L. MCCABE	9-15-43	11.716
CC	SYLVIA JEAN NEEHOUSE	9-17-4.3	1.329
DD	RICKY E. DAVIS	9-17-4.2	1.301
EE	KENNETH E. JANISZEWSKI, ET UX	9-17-5	5.00
FF	ADAM WALTER BARTOSZEWICZ	9-15-40.1	13.50
GG	KENNETH E. JANISZEWSKI, ET UX	9-17-7	88.00
HH	KENNETH E. JANISZEWSKI, ET UX	9-17-39	24.29
II	KENNETH E. JANISZEWSKI, ET UX	9-17-38	57.00
JJ	RYAN J. & MICHELLE L. RIDDLE	9-17-38.1	3.00
KK	RYAN J. & MICHELLE L. RIDDLE	9-17-37	70.23

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 | 304.346.3952
294 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296

slsww.com

P.S. 849 *C. Victor Moyers*

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

NAD'83 S.P.C.(FT)	N. 466,565.03	E. 1,633,438.61
NAD'83 GEO.	LAT-(N) 39.774856	LONG-(W) 80.692147
NAD'83 UTM (M)	N. 4,402,814.20	E. 526,364.33

LANDING POINT

NAD'83 S.P.C.(FT)	N. 466,820.3	E. 1,636,132.1
NAD'83 GEO.	LAT-(N) 39.775654	LONG-(W) 80.682577
NAD'83 UTM (M)	N. 4,402,905.7	E. 527,183.6

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 472,750.3	E. 1,632,841.9
NAD'83 GEO.	LAT-(N) 39.791813	LONG-(W) 80.694563
NAD'83 UTM (M)	N. 4,404,695.5	E. 526,151.0

SCALE 1" = 2000' FILE NO. 8811P16HUAD.dwg
KEITH STERN N-16HU-REV2

DATE JUNE 11, 20 20
REVISED, 20

OPERATORS WELL NO. KEITH STERN N-16HU

API WELL NO. 47 - 051 - 2242

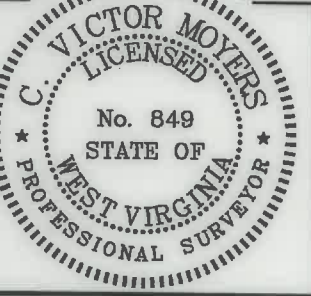
STATE COUNTY PERMIT

LEGEND

AS DRILLED (Red dashed line)
PROPOSED (Green dashed line)

PROPOSED KNOB CREEK S WELLS

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	19.65'	20.03'	N 29°02' W	18.87'
C2	132.04'	730.53'	S 79°59' E	131.86'
C3	102.04'	157.84'	N 88°52' E	100.27'
C4	132.08'	147.80'	N 37°42' E	127.73'
C5	201.00'	537.57'	N 02°22' E	199.83'
C6	283.69'	1219.08'	N 13°48' W	283.05'
C7	309.72'	2015.60'	N 24°39' W	309.42'



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

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

LEGEND

- UNIT BOUNDARY (Dashed line)
- LEASED TRACTS INSIDE (Dotted line)
- UNIT BOUNDARY (Dashed line)
- SURFACE LINE (Dashed line)
- PROPOSED UTICA (Red dashed line)
- WELL LATERAL (Dashed line)
- 400' OFFSET LINE (Dashed line)
- 500' OFFSET LINE (Dashed line)
- TIE LINE (Dashed line)
- CREEK (Dashed line)
- ROAD (Dashed line)
- COUNTY ROUTE (Dashed line)
- PROPOSED WELL (Red circle with cross)
- EXISTING WELL (Black circle with cross)
- PERMITTED WELL (Black circle with cross)
- SURFACE OWNER (SEE TABLE) (Circle with letter)
- LEASE # (SEE ADDITIONAL SHEETS) (Circle with letter)

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

COUNTY NAME PERMIT

**KEITH STERN N LEASE
UTICA UNIT - 631.99 AC ±
WELL 16HU
TUG HILL OPERATING**



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
sfsww.com

NO.	Lease ID	Tag	Parcel	Grantor, Lessor, Etc.	Deed Book/Page
1	10*15605	A	9-14-24.1	ISAAC CROW ET UX	74 394
2	10*15605	B	9-14-24	ISAAC CROW ET UX	74 394
3	10*15609	C	9-14-20	WILLIAM K STERN AND BETTY L STERN	718 320
4	10*23458	D	WV - FISH CREEK	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	1019 373
5	10*15812	E	9-14-23	WILLIAM K STERN AND BETTY L STERN	687 220
6	10*16436	E	9-14-23	REAGAN D YEATTS AND CHRISTOPHER M YEATTS	961 339
7	10*18269	E	9-14-23	GENELDA MASON	942 460
8	10*18299	E	9-14-23	CAROL L BOBBY AND DONALD J BOBBY	929 281
9	10*18354	E	9-14-23	DEBORAH L TURLEY	931 352
10	10*18355	E	9-14-23	JUDITH F TEMPLE AND LOUIS I TEMPLE	931 350
11	10*18356	E	9-14-23	LARRY W ALLEY	931 348
12	10*18357	E	9-14-23	DEBORAH SUE KYLE	931 346
13	10*18358	E	9-14-23	SHARLA ROLLINS AND GARY ROLLINS	931 358
14	10*18419	E	9-14-23	CARLA MAE ALLEY	932 539
15	10*18420	E	9-14-23	VICTOR E ALLEY JR AND DEBRA A ALLEY	932 582
16	10*18421	E	9-14-23	DONNA JUNE STRAIT AND GARY E STRAIT	932 588
17	10*18429	E	9-14-23	GEORGE L DUNN AND NANCY MARIE DUNN	932 601
18	10*18430	E	9-14-23	JAMES DUNN AND DONNA K DUNN	932 604
19	10*18432	E	9-14-23	ROSEMARIE BERISFORD	932 572
20	10*18484	E	9-14-23	BRENDA REED	933 107
21	10*18485	E	9-14-23	BARBARA JO BEVERIDGE	933 109
22	10*18490	E	9-14-23	STACY L BARNHART	933 123
23	10*18491	E	9-14-23	LORI A FARMER AND DANIEL K FARMER	933 131
24	10*18512	E	9-14-23	CHRISTINA NESTELL AND CHARLES E NESTELL III	933 565
25	10*18515	E	9-14-23	WILLIAM P DAUBE	933 573
25	10*18518	E	9-14-23	SUSAN I BAKER	933 580
27	10*18520	E	9-14-23	CHRISTOPHER SAUDERS	933 584
28	10*18612	E	9-14-23	NANNETTE BERLECH	932 542
29	10*18617	E	9-14-23	SHEILA SIMMONS AND JEFFREY R SIMMONS	934 613
30	10*18644	E	9-14-23	FRANK A STORCH JR AND SUSAN STORCH	936 149
31	10*18645	E	9-14-23	SANDRA SUE HALL AND DAVID HALL	936 155
32	10*18647	E	9-14-23	PETER G STORCH AND LAURIE L STORCH	936 152
33	10*18648	E	9-14-23	LAWRENCE E CHIAPPETTA AND PATRICIA A CHIAPPETTA	936 161
34	10*18649	E	9-14-23	RODNEY K BANE AND CATHIE J BANE	936 164
35	10*18652	E	9-14-23	BECKY LANDRIS	936 172
36	10*18653	E	9-14-23	DALE R ALLEY	936 174
37	10*18673	E	9-14-23	RACHEL THORNE AND FRED THORNE JR	938 574
38	10*18674	E	9-14-23	JOHN T CRISWELL AND CATHERINE A CRISWELL	938 579
39	10*18675	E	9-14-23	JEFFREY BRYAN CRISWELL	938 582
40	10*18676	E	9-14-23	JENNIFER SHAWN GLOVER	938 576
41	10*18677	F	9-14-23	PATRICIA DOFKA	938 585
42	10*18678	E	9-14-23	WILLIAM LINSLEY CRISWELL	938 588
43	10*18763	E	9-14-23	VAUGHN HONE SR & UNDA MARIE HONE	938 225
44	10*18766	E	9-14-23	TOM ALLEY	938 223
45	10*18797	E	9-14-23	DORETTA RUSH	937 622
46	10*18808	E	9-14-23	PATRICIA KIRCHNER	937 644
47	10*18809	E	9-14-23	JUDITH C LORADITCH	937 647
48	10*19392	E	9-14-23	RODNEY W RUSH AND CRYSTAL D RUSH	940 396
49	10*19400	E	9-14-23	BULA F YOST	940 342
50	10*19405	E	9-14-23	ANN MARIE STEVENS AND CURTIS STEVENS	939 287
51	10*19417	E	9-14-23	SYLVIA R SPALENY AND ROBERT A SPALENY	939 595
52	10*19423	E	9-14-23	KEITH W STORCH AND DEBORAH A STORCH	934 600
53	10*19477	E	9-14-23	DEBORAH A MILLER	941 320
54	10*19479	E	9-14-23	DENISE WILLIAMSON	941 329
55	10*19510	E	9-14-23	REED O MILLER	933 571
56	10*19525	E	9-14-23	AUGUSTUS R MCMAHON III AND MICHELE M MCMAHON TRUSTEES OF THE AUGUSTUS R MCMAHON III LIVING TRUST	943 509
57	10*19527	E	9-14-23	AUGUSTUS RUSH MCMAHON III TRUSTEE OF THE PAMELA J MCMAHON REVOCBLE TRUST	953 339
58	10*19530	E	9-14-23	SHAROL K CASADA	943 1
59	10*19531	E	9-14-23	DELBERT D RUSH AND BETTY RUTH RUSH	942 615
60	10*19625	E	9-14-23	DURR SUCKEL & ELIZABETH SUCKEL	944 150
61	10*19626	E	9-14-23	LAURIE R BROWN	944 153
62	10*19676	E	9-14-23	RONALD W REINBEAU	944 456
63	10*19677	E	9-14-23	NEIL SCHAFFER AND CHRISTAL L SCHAFFER	944 147
64	10*19681	E	9-14-23	TIMOTHY LEE COLLEY	944 140
65	10*19683	E	9-14-23	TERESA ALLEY	944 145
66	10*19686	E	9-14-23	KAREN J AND MICHAEL E BRUGGEMAN	944 142
67	10*19712	E	9-14-23	CHAZ AARON COLLEY AND DANA COLLINS	957 139
68	10*19723	E	9-14-23	REID ELATTRACHE AND TONYA ELATTRACHE	957 131
69	10*19859	E	9-14-23	ELIZABETH A STARC	945 603
70	10*19860	E	9-14-23	AUCIA N STARC	945 601
71	10*19861	E	9-14-23	JOSEPH F STARC JR AND DONNA STARC	945 605
72	10*19862	E	9-14-23	STACY R BENNETT	945 608
73	10*19864	E	9-14-23	JOE Y KELLER JR AND SHARON MARIE KELLER	945 553
74	10*19935	E	9-14-23	SARA E STARC	948 255
75	10*19936	E	9-14-23	SHERWOOD MASON NILA JUNE MASON	948 551
76	10*19940	E	9-14-23	EMMA JO CRISWELL	948 551
77	10*21028	E	9-14-23	BRENDA GILBERT	951 159
78	10*21094	E	9-14-23	KATHERINE DEGROOT AND DANIEL DEGROOT	951 151
79	10*21111	E	9-14-23	DONNA G AND PAUL L CHMELYSKI	951 154
80	10*21209	E	9-14-23	CHARLES R WILLIAMSON JR	951 157
81	10*21228	E	9-14-23	CHARLES F HORNER & LORAIN G HORNER	952 434
82	10*21279	E	9-14-23	TARA E CAUSEY	952 432
83	10*21395	E	9-14-23	DANIEL L LANDRIS AND JOAN L LANDRIS	956 625
84	10*21396	E	9-14-23	MICHAEL D ZUCKER	956 647
85	10*21441	E	9-14-23	JOSEPH A MURPHY AND VIRGINIA ANNE MURPHY	956 631
86	10*21443	E	9-14-23	ROBERT L LANDRIS AND LIBERTY JANE LANDRIS	956 628
87	10*21490	E	9-14-23	DANIEL E WILLIAMSON AND HEATHER R WILLIAMSON	957 153
88	10*21493	E	9-14-23	DENZIL ALLEY JR	958 64
89	10*21497	E	9-14-23	KATHLEEN G WILLIAMSON	957 324
90	10*21837	E	9-14-23	WILLIAM BRYAN COLLEY	959 627
91	10*21873	E	9-14-23	MICHAEL WAYNE ALLEY AND LINDA ALLEY	953 501
92	10*21961	E	9-14-23	JOHN WILLIAMSON JR	960 24
93	10*21972	E	9-14-23	CATHERINE I AND ERNEST M SILVERIO	950 586
94	10*21979	E	9-14-23	CHARLES C SEAMON	954 340
95	10*21991	E	9-14-23	THE JOANN REILLY TRUST KIMBERLY MAEZ TRUSTEE	953 341
96	10*21997	E	9-14-23	MICHAEL SAUDERS AND AMI SAUDERS	953 505
97	10*22004	E	9-14-23	RALPH EDWARD WILLIAMSON	953 507
98	10*22037	E	9-14-23	JOSHUA W SEAMON	953 509

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Office of Oil and Gas
SEP 30 2022
WV Department of
Environmental Protection

FILE NO. 8811P16HUAD.dwg
KEITH STERN N-16HU-REV2

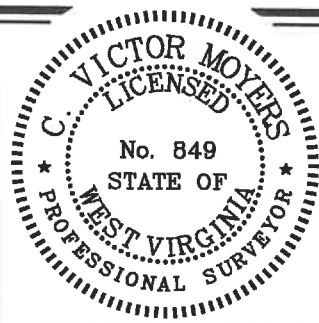
DATE JUNE 11, 20 20

REVISED _____, 20 _____

OPERATORS WELL NO. KEITH STERN N-16HU

API WELL NO. 47 — 051 — 2242

STATE COUNTY PERMIT



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

10/14/2022

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

**KEITH STERN N LEASE
UTICA UNIT - 631.99 AC±
WELL 16HU
TUG HILL OPERATING**



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
slew.com

99	10*22053	E	9-14-23	LARRY R CRANE	953	344
100	10*22089	E	9-14-23	MARCIA A LLKE	961	333
101	10*22110	E	9-14-23	JENNIFER ALLEY FISHER & ROBERT D FISHER	961	347
102	10*22127	E	9-14-23	JUDITH L BENEDICT AND LOUIS G BENEDICT	961	343
108	10*22150	E	9-14-23	CHAD ERIC BENNETT AND MARY A BENNETT	954	338
104	10*22257	E	9-14-23	CHARLES F ALLEY TRUST EMMANUEL PREVOLES TRUSTEE	970	26
105	10*22328	E	9-14-23	JUDITH S KNIGHT	962	276
106	10*22329	E	9-14-23	EARL FRAZIER AND LYDIA ARMENTA	963	128
107	10*22380	E	9-14-23	BRIAN R MORGAN	964	453
108	10*22411	E	9-14-23	DIANNA LEA SHEPARD	970	30
109	10*22461	E	9-14-23	DANNY E COCHRAN AND LORI ANN COCHRAN	972	40
110	10*22501	E	9-14-23	RANDY W MORRIS SR AND CHERYL MORRIS	966	465
111	10*22502	E	9-14-23	JULIA RAE BROOKS	977	30
112	10*22775	E	9-14-23	SUSAN EXLINE	977	32
113	10*22778	E	9-14-23	AUBREY E REILLY	977	26
114	10*22833	E	9-14-23	BRENDAN Q REILLY	977	28
115	10*22848	E	9-14-23	SUSAN L GOLDSBERRY	962	549
116	10*22854	E	9-14-23	SALLY M COTEREL-CHANNEY	962	547
117	10*22878	E	9-14-23	LINDA K AND MICHAEL HUMES	948	372
118	10*22879	E	9-14-23	JAMES P MILLER	946	215
119	10*23148	E	9-14-23	IDA A ALLEY AND J F ALLEY	117	45
120	10*15957	F	9-14-20.3	BRADLEY CROW AND BETTY L CROW	768	350
121	10*15958	F	9-14-20.3	GLADYS CROW	769	609
122	10*15959	F	9-14-20.3	LEWIS M QUIGLEY AND MAXINE V QUIGLEY	769	608
123	10*15960	F	9-14-20.3	CONNIE HECKLE	770	547
124	10*15961	F	9-14-20.3	H GLENN CROW	770	565
125	10*15962	G	9-14-20.1	BRADLEY CROW AND BETTY L CROW	768	362
126	10*15963	G	9-14-20.1	LEWIS M QUIGLEY AND MAXINE V QUIGLEY	769	416
127	10*15964	G	9-14-20.1	GLADYS CROW	769	410
128	10*15965	G	9-14-20.1	H GLENN CROW	770	535
129	10*15966	G	9-14-20.1	CONNIE HECKLE	770	541
130	10*15509	H	9-14-20.2	WILLIAM K STERN AND BETTY L STERN	718	320
131	10*15836	I	9-15-43.1	LUCINDA RAE ALLEN AND DAVID A ALLEN	742	79
132	10*15837	I	9-15-43.1	ANITA DIANE ANTILL AND TERRY ANTILL	742	85
133	10*15842	I	9-15-43.1	HOMER L SIMMONS AND GLADYS R SIMMONS	742	329
134	10*17887	I	9-15-43.1	LEO C HILKE AND BETTY M HILKE	924	531
135	10*22376	I	9-15-43.1	MARGARET KUCHARZ AND JAMES C KUCHARZ	962	270
136	10*47061.219.33	I	9-15-43.1	JOHN H HILKE AND AJDA HILKE	898	602
137	10*47061.219.37	I	9-15-43.1	SUSAN H KEY	898	621
138	10*47061.219.39	I	9-15-43.1	ALICE THIPPHAVONG AND VISITH THIPPHAVONG	902	437
139	10*15813	J	9-15-16	ROBERT B THOMAS	692	235
140	10*15814	J	9-15-16	MARY E BASSETT	694	499
141	10*15815	J	9-15-16	FORREST M THOMAS	694	516
142	10*15816	J	9-15-16	SALLY CYNTHIA HOPKINS	697	116
143	10*15817	J	9-15-16	RUTH MEADOWS	703	583
144	10*15818	J	9-15-16	ELIZABETH ANN STRAUSBAUGH	703	578
145	10*15819	J	9-15-16	JANET LEA BLANKENSHIP	708	114
146	10*17445	J	9-15-16	GENEVA BASSETT SANCHEZ	929	292
147	10*21814	J	9-15-16	STONE HILL MINERALS HOLDINGS LLC	953	335
148	10*21818	J	9-15-16	STONE HILL MINERALS HOLDINGS LLC	953	337
149	10*21862	J	9-15-16	NOBLE MARCELLUS LP	961	641
150	10*15813	K	9-14-19	ROBERT B THOMAS	692	235
151	10*15814	K	9-14-19	MARY E BASSETT	694	499
152	10*15815	K	9-14-19	FORREST M THOMAS	694	516
153	10*15816	K	9-14-19	SALLY CYNTHIA HOPKINS	697	116
154	10*15817	K	9-14-19	RUTH MEADOWS	703	583
155	10*15818	K	9-14-19	ELIZABETH ANN STRAUSBAUGH	703	578
156	10*15819	K	9-14-19	JANET LEA BLANKENSHIP	708	114
157	10*17445	K	9-14-19	GENEVA BASSETT SANCHEZ	929	292
158	10*21814	K	9-14-19	STONE HILL MINERALS HOLDINGS LLC	953	335
159	10*21818	K	9-14-19	STONE HILL MINERALS HOLDINGS LLC	953	337
160	10*21862	K	9-14-19	NOBLE MARCELLUS LP	961	641
161	10*23053	L	9-14-11	CE YOUNG	63	146
162	10*15605	M	9-14-13	ISAAC CROW ET UX	74	394
163	10*15592	N	9-14-15	JOHN DANIEL DOBBS	694	125
164	10*15593	N	9-14-15	GARY L DOBBS	693	289
165	10*18189	N	9-14-15	WILLIAM C WEST AND DEBRA WEST	928	622
166	10*18297	N	9-14-15	ROBERT E WEST	929	279
167	10*19614	N	9-14-15	KAREN SUE BLAKE	937	318
168	10*17929	O	9-14-17	STONE HILL MINERALS HOLDINGS LLC	931	372
169	10*15469	P	9-14-16	HARRIET J ANDERSON	920	11
170	10*15470	P	9-14-16	BETTY L LOSES	921	286
171	10*15473	P	9-14-16	WILLIAM F MCDONALD AND SHIRLEY MCDONALD	921	198
172	10*15476	P	9-14-16	CURITS W WEST JR AND DIANE WEST	921	268
173	10*15488	P	9-14-16	NANCY F FYE & STEPHEN M FYE	921	226
174	10*15495	P	9-14-16	BARBARA BARNHART AND WALTER BARNHART	921	222
175	10*15694	P	9-14-16	DEBORAH L MERCER	921	271
176	10*15695	P	9-14-16	JOHN R AND LOIS L GORBY	929	259
177	10*15696	P	9-14-16	JOSEPH JEREMY PALMER	921	275
178	10*15741	P	9-14-16	LOHRN S GORBY	929	641
179	10*16152	P	9-14-16	CONNIE HECKLE	920	29
180	10*16153	P	9-14-16	LARRY JACK EMERY	920	13
181	10*16186	P	9-14-16	DEBORAH KAY COOLEY AND ROBERT T BECK	920	65
182	10*16187	P	9-14-16	PATRICIA D BABL AND JOHN J BABL	920	31
183	10*16191	P	9-14-16	MADELYN E MOSSOR DO NOT USE	920	76
184	10*16409	P	9-14-16	WILLIAM C EDGAR AND CHRISTY E EDGAR	920	61
185	10*16404	P	9-14-16	KATHRYN M WHIPKEY	921	194
186	10*16406	P	9-14-16	ARELENA B HORNER AND QUAY ALLEN HORNER	921	240
187	10*16407	P	9-14-16	JANICE F BROOKOVER	920	74
188	10*16408	P	9-14-16	KATHLEEN J FRANCIS	921	196
189	10*16409	P	9-14-16	JEANETTE M HEATH	920	72
190	10*16425	P	9-14-16	WILLIAM A MASON JR AND ROBIN MASON	920	25
191	10*16428	P	9-14-16	BRUCE LYNN JOHNSON AND KIMBERLY A JOHNSON	920	50
192	10*16438	P	9-14-16	AUCE MARLENE PERSINGER	921	236
193	10*16468	P	9-14-16	LARRY W JOHNSON	920	57
194	10*16469	P	9-14-16	JAMES EARLAND MARGARET L SIBURT	921	245
195	10*16470	P	9-14-16	CAROLYN SUE FRANKLIN AND RAYMOND EUGENE FRANKLIN	921	219
196	10*16472	P	9-14-16	JUDY DELORIS SIBURT	929	643
197	10*16473	P	9-14-16	LINDA ELAINE AND RICHARD LEROY LITTELL	929	256
198	10*16474	P	9-14-16	BARBARA KAY SIBURT	921	266
199	10*16475	P	9-14-16	MARY LOUISE GORBY	921	234

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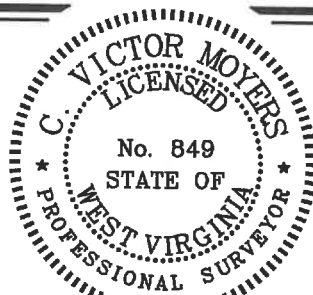
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KEITH STERN N-16HU-REV2

DATE JUNE 11, 20 20

REVISED _____, 20 _____

OPERATORS WELL NO. KEITH STERN N-16HU

API WELL NO. 47 — 051 — 2242
NO. STATE COUNTY PERMIT



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



P.S. 849 *C. Victor Moyers*

COUNTY NAME PERMIT

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

**KEITH STERN N LEASE
UTICA UNIT - 631.99 AC ±
WELL 16HU
TUG HILL OPERATING**



12 Vanhorn Drive | P.O. Box 150 | Gianville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3992
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
stewv.com

200	10*16476	P	9-14-16	ROGER ALLAN AND CYNTHIA L JOHNSON	921	257
201	10*16477	P	9-14-16	BRENDA K YOHO	921	228
202	10*16550	P	9-14-16	CHARLES LEROY LEACH AND MARTHA G LEACH	920	19
203	10*16551	P	9-14-16	JACK L CROW JR AND VIRGINIA L CROW	921	260
204	10*16867	P	9-14-16	APRIL M WEED	921	279
205	10*16883	P	9-14-16	VICKIE LYNN PAPE AND JOHN EDWARD PAPE	921	248
206	10*16884	P	9-14-16	DELORES A BOWERS & LEONARD B BOWERS	921	281
207	10*16916	P	9-14-16	ROGER LEE WEST	921	277
208	10*16971	P	9-14-16	LEONA M SIBURT	921	238
209	10*16972	P	9-14-16	SCOTT BRADLEY GRIMM & SHERRY ANN GRIMM	921	242
210	10*16973	P	9-14-16	NANCY C KESSELRING & CARL E KESSELRING	920	22
211	10*17358	P	9-14-16	KAREN LOUISE AND ROGER L DUNHAM	921	254
212	10*17359	P	9-14-16	JULIA ALLISON CROW	921	224
213	10*17361	P	9-14-16	SHEILA RAMONA CROW	920	78
214	10*17362	P	9-14-16	NILA VIRGINIA AND FREDERICK EUGENE STREIGHT	921	251
215	10*17366	P	9-14-16	SYLVIA DEE WOOD	921	230
216	10*17367	P	9-14-16	JERRY HOWELL	920	37
217	10*17368	P	9-14-16	DONALD PAUL CROW AND CRYSTAL LYNN CROW	921	201
218	10*17369	P	9-14-16	DELORES A WALLACE	920	63
219	10*17371	P	9-14-16	MACK A AND CAROLA CROW	921	204
220	10*17372	P	9-14-16	DONNIE JASON HEDGEPEETH AND KAREN L HEDGEPEETH	920	42
221	10*17373	P	9-14-16	NILA F HEDGEPEETH	920	45
222	10*17374	P	9-14-16	EZRA HOWARD COCHRAN	920	27
223	10*17380	P	9-14-16	DEBORAH IRENE PIERCE AND BARRETT LEE PIERCE	920	34
224	10*17381	P	9-14-16	CINDY J AND DARNELL L FULKS	921	268
225	10*17382	P	9-14-16	HELEN MARIE AND DAVID E MCCRAY	920	47
226	10*17389	P	9-14-16	MELBA EILEEN HUDDLESTUN	920	53
227	10*17390	P	9-14-16	HAROLD B CROW AND CONNIE SUE CROW	921	207
228	10*17391	P	9-14-16	BETTY LOU AND OLLIE CHARLES HUGGINS	921	210
229	10*17397	P	9-14-16	BEVERLY KATHRYN GODDARD	920	55
230	10*17393	P	9-14-16	CHARLIE M TURNER AND BESSIE M TURNER	920	39
231	10*17394	P	9-14-16	JUDY LOUISE GLOVER	921	232
232	10*17397	P	9-14-16	PAT DARRELL TURNER AND TINA DENISE TURNER	925	117
233	10*17399	P	9-14-16	RONALD EDWARD WATSON AND DIANA L WATSON	925	120
234	10*17401	P	9-14-16	JOHN M HAUGHT JR AND CHERYL A HAUGHT	925	182
235	10*17402	P	9-14-16	DIANA LYNN BUMGARDNER	920	68
236	10*17403	P	9-14-16	JAMES B CROW AND PENNY G CROW	925	187
237	10*17404	P	9-14-16	BIJAN K CROW	925	185
238	10*17408	P	9-14-16	WILLIAM JAMES HEDGEPEETH AND ERIN ELIZABETH HEDGEPEETH	924	572
239	10*17409	P	9-14-16	JUDY A AND CLYDE E ELIZEY	924	569
240	10*17410	P	9-14-16	LILLIE L GAREY	924	567
241	10*17420	P	9-14-16	DAVID LEE AND ANN F BAKER	924	564
242	10*17490	P	9-14-16	CONNIE SUE DOUGLAS AND RONNIE J DOUGLAS	924	578
243	10*17491	P	9-14-16	THOMAS LEE AND CLARA J HAUGHT	924	575
244	10*17598	P	9-14-16	TERRY LEE PETTIT AND STEPHANIE LYNN PETTIT	921	288
245	10*17710	P	9-14-16	DEBRA JEAN LANCASTER AND DARRELL R LANCASTER	929	634
246	10*17811	P	9-14-16	PANSY M ASTON AND ELMER L ASTON	921	216
247	10*17821	P	9-14-16	GREGORY S CROW	929	639
248	10*17902	P	9-14-16	SUSAN LYNN SEDGNER	920	59
249	10*17904	P	9-14-16	RICKY LEE AND TAMMY J WATSON	921	213
250	10*17958	P	9-14-16	SANDRA KAY RICHMOND	929	632
251	10*18250	P	9-14-16	BRENDA KAY COFFIELD AND WILLIAM E COFFIELD	928	546
252	10*18251	P	9-14-16	BARBARA JEAN TOMASZCZYK AND LAWRENCE M TOMASZCZYK	928	575
253	10*18252	P	9-14-16	SHARON L AND DONALD N KAISER	928	572
254	10*18253	P	9-14-16	JOAN M SCHRANTZ	928	569
255	10*18285	P	9-14-16	KATHERINE LYNN SMITH	929	637
256	10*18303	P	9-14-16	WILLIAM E MOORE AND CYNTHIA M MOORE	944	438
257	10*18304	P	9-14-16	EVA L FAWCETT	929	321
258	10*18305	P	9-14-16	MARY L WOLFKILL AND HARRY H WOLFKILL	929	324
259	10*18306	P	9-14-16	MILAN B MARINCOV AND ELIZABETH E MARINCOV	929	327
260	10*18307	P	9-14-16	DEBORAH S KACKLEY AND ROBERT A KACKLEY	929	330
261	10*18308	P	9-14-16	LUNDA A DAVIS AND JAMES M DAVIS	929	333
262	10*18309	P	9-14-16	LARRY W HOBOKEN AND KATHRYN J HOBOKEN	929	336
263	10*18310	P	9-14-16	VIRGINIA A PASQUALUCCI	945	478
264	10*18311	P	9-14-16	JOYCE D JONES	929	339
265	10*18347	P	9-14-16	ELMA LOU LADNER	931	397
266	10*18348	P	9-14-16	FORREST N SIBURT AND ARLENE G SIBURT	931	362
267	10*18349	P	9-14-16	DAWN C GOSKY AND GLENN P GOSKY	931	365
268	10*18400	P	9-14-16	CHERYL ANN VYHNAL AND FRANK T VYHNAL	932	609
269	10*18457	P	9-14-16	SHEILA M KRULL AND JAMES W KRULL	933	177
270	10*18459	P	9-14-16	SANDRA K NELSON AND RICKY A NELSON	933	174
271	10*18460	P	9-14-16	ROBERT W CERMAK AND PATRICIA LYNN CERMA	933	171
272	10*18461	P	9-14-16	STEVEN F RUNION AND JAN M RUNION	933	168
273	10*18462	P	9-14-16	NANCY L PAULETTE AND JOSEPH L PAULETTE	933	165
274	10*18463	P	9-14-16	MILANA L REDLINGER AND ROBERT W REDLINGER	933	162
275	10*18464	P	9-14-16	ROBERTA J EDDY AND RONALD D EDDY	933	159
276	10*18465	P	9-14-16	GAYLE C HATHAWAY	933	156
277	10*18466	P	9-14-16	REBECCA M PENNINGTON	933	154
278	10*18467	P	9-14-16	SAMANTHA L BOYLES AND DARRELL L BOYLES	933	145
279	10*18468	P	9-14-16	PATTY J LICITIS AND GEORGE LICITIS	933	142
280	10*18523	P	9-14-16	KENT R HARRIS	933	600
281	10*18525	P	9-14-16	WAYNE M CERMAK	933	594
282	10*18574	P	9-14-16	DAE MARIE WARDEN	935	24
283	10*18575	P	9-14-16	DEAN P PENNINGTON	935	14
284	10*18576	P	9-14-16	SCOTT D VAN NEWHOUSE	935	12
285	10*18577	P	9-14-16	KELLY ANN DENOON	935	10
286	10*18578	P	9-14-16	KIMBERLY ELLEN DENOON	935	8
287	10*18579	P	9-14-16	ROGER EDWARD DENOON JR	935	6
288	10*18580	P	9-14-16	BRADLEY R CROW	935	4
289	10*18611	P	9-14-16	DARYL MCGUFFIN AND NALENA H MCGUFFIN	934	598
290	10*18627	P	9-14-16	GERALDINE MAY SPONAUGLER AND JUNIOR RICHARD SPONAUGLER	936	234
291	10*18629	P	9-14-16	THOMAS D LULLOM AND CATHERINE A LULLOM	936	230
292	10*18630	P	9-14-16	TIMOTHY D LULLOM AND NANCY M LULLOM	936	232
293	10*18634	P	9-14-16	KATHRYN E SIBURT	936	236
294	10*18635	P	9-14-16	GLADYS CROW	936	238
295	10*18705	P	9-14-16	DOLORES JEAN POLAND	938	535
296	10*18708	P	9-14-16	DELORES KOLAKOWSKI	938	540
297	10*18709	P	9-14-16	CONSTANCE M SIMPSON AND DANIEL L SIMPSON	938	537
298	10*18710	P	9-14-16	LEWIS M QUIGLEY AND MAXINE V QUIGLEY	938	267
299	10*18711	P	9-14-16	H GLENN CROW	938	269
300	10*18712	P	9-14-16	KENNETH R BURCH	938	272

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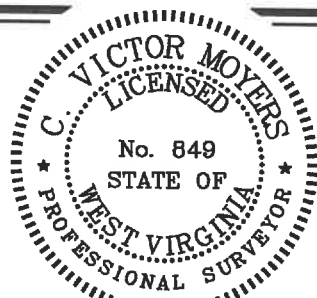
KEITH STERN N-16HU-REV2

DATE JUNE 11, 2020

REVISED _____, 20____

OPERATORS WELL NO. KEITH STERN N-16HU

API WELL NO. 47 — 051 — 2242
STATE COUNTY PERMIT



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



10/14/2022

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
4600 D BIG TYLER ROAD
CHARLESTON, WV 25313

COUNTY NAME PERMIT

**KEITH STERN N LEASE
UTICA UNIT - 631.99 AC±
WELL 16HU
TUG HILL OPERATING**



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
slswv.com

301	10*18713	P	9-14-16	GEORGE A JOHNS JR AND KAREN L JOHNS	938	275
302	10*18830	P	9-14-16	GERALD Q MOORE AND SLYVIA JUDITH MOORE	937	393
303	10*18831	P	9-14-16	JACQUELYN A ROBERTS	937	395
304	10*18832	P	9-14-16	DAN HELTON AND PEGGY ANNA HELTON	937	397
305	10*18833	P	9-14-16	WILLIAM J ULLOM	937	399
306	10*18834	P	9-14-16	JAMES R ROCKEY	938	1
307	10*18939	P	9-14-16	PEGGY J CROW	939	384
308	10*18940	P	9-14-16	STEVEN T JOHNS AND KAREN A JOHNS	939	277
309	10*18941	P	9-14-16	MARGARET E JONES AND CHARLES T JONES	939	393
310	10*18942	P	9-14-16	MARY JO ROCKEY	939	391
311	10*18953	P	9-14-16	CYNTHIA M GROSS AND MICHAEL D GROSS	941	299
312	10*18954	P	9-14-16	ROBERT E TOEPFER JR AND ELIZABETH A TOEPFER	941	295
313	10*18955	P	9-14-16	CHARLES W LADNER	941	293
314	10*18956	P	9-14-16	MICHELE T VALYKO	941	297
315	10*19506	P	9-14-16	MARK R MOORE AND ASHTYN C MOORE	942	610
316	10*19603	P	9-14-16	JAMES KEITH NATIONS BY HIS COURT APPNTD GUARDIAN AD LITEM DAVID C WHITE ESQ	944	134
317	10*19609	P	9-14-16	LOYD T HALL AND LORNA K HALL	937	320
318	10*19664	P	9-14-16	PAUL EUGENE SUTTON JR & NICKIE L SUTTON	944	436
319	10*19665	P	9-14-16	GAIL L SUTTON	944	138
320	10*19836	P	9-14-16	SUSAN E MARTIN	945	582
321	10*19837	P	9-14-16	SHARON K LEONARD	944	440
322	10*19839	P	9-14-16	PAMELA DOYLE BROWN	945	584
323	10*19840	P	9-14-16	PHYLLIS JEAN CROW HEWITT	945	586
324	10*19890	P	9-14-16	JO ANN FORRESTER	948	569
325	10*19891	P	9-14-16	TWILA J GORDON AND ALEXANDER J GORDON	945	475
326	10*19974	P	9-14-16	RONDA L SKILTON AND THOMAS A SKILTON	948	200
327	10*21010	P	9-14-16	LISA A HALL AND KYLE W HALL	951	185
328	10*21038	P	9-14-16	LAURA A WALSH AND MICHAEL P WALSH SR	951	188
329	10*21040	P	9-14-16	VICKIE L POND AND SIDNEY P POND	949	360
330	10*21049	P	9-14-16	JOHN J HENRY III	951	175
331	10*21059	P	9-14-16	JOHN B HIZER AND SONYA L HIZER	951	172
332	10*21060	P	9-14-16	PETER DOMINICK DENOON & DENISE J DENOON	951	170
333	10*21134	P	9-14-16	NANCY J ULLOM	951	179
334	10*21135	P	9-14-16	CHARLES K NATIONS	953	53
335	10*21136	P	9-14-16	STEVEN J KIM AND LUCIA B KIM	953	51
336	10*21137	P	9-14-16	GLORIA JEAN SELMON	951	177
337	10*21187	P	9-14-16	JEFFREY S HIZER AND BONNIE LYNN HIZER	951	183
338	10*21188	P	9-14-16	TERRY S WEEKLEY AND KRISTAL D WEEKLEY	951	181
339	10*21247	P	9-14-16	GLORIA LUCAS	953	57
340	10*21248	P	9-14-16	ESSIE BUCHANAN	953	219
341	10*21249	P	9-14-16	PEGGY HARTLEY	953	55
342	10*21338	P	9-14-16	DOROTHY I WHITE	953	217
343	10*21339	P	9-14-16	MICHAEL W SMITH	953	212
344	10*21340	P	9-14-16	MARY ANN BURNS AND SIDNEY P BURNS	953	214
345	10*21413	P	9-14-16	CHIKAKO YAMASHIRO HIZER	956	598
346	10*21446	P	9-14-16	LAURA L GORBY	956	594
347	10*21447	P	9-14-16	GINA L LUPDEGRAFF	956	596
348	10*21477	P	9-14-16	PAUL EUGENE SUTTON SR	944	136
349	10*21555	P	9-14-16	HOWARD A BLAKE & SHARON ANN BLAKE HOWARD A BLAKE POA FOR SHARON ANN BLAKE	957	390
350	10*21610	P	9-14-16	THERESA E CREEGER AND GREGORY J CREEGER	958	467
351	10*21611	P	9-14-16	KEITH GOUDY AND NANCY GOUDY	959	459
352	10*21612	P	9-14-16	YANCY R ARRINGTON AND TERESA C ARRINGTON	959	457
353	10*21881	P	9-14-16	HELEN LOUISE HUGHES	963	221
354	10*21933	P	9-14-16	BRENDA WEEKLEY BEAVER & DANIEL T BEAVER	960	4
355	10*22151	P	9-14-16	GERALD W LUNA AND CHERI E LUNA	954	342
356	10*22289	P	9-14-16	KAREN ELAINE WOLFE AND JAMES BRENT WOLFE	962	285
357	10*22290	P	9-14-16	DAVID W HUMMEL SR	962	281
358	10*22297	P	9-14-16	MARK L ADAMS	962	283
359	10*22399	P	9-14-16	WILLIAM T SCHMITT AND PENNY E SCHMITT	963	118
360	10*22400	P	9-14-16	NANCY A CHURCH & RALPH E CHURCH	963	115
361	10*22401	P	9-14-16	DEBORAH L ONEAL	963	113
362	10*22402	P	9-14-16	RUSSELL B GODDARD	963	111
363	10*22403	P	9-14-16	DONNA M TAYLOR	963	109
364	10*22409	P	9-14-16	LORI ANN OAKS AND LARRY D OAKS	963	121
365	10*22416	P	9-14-16	ADA M MOORE	963	350
366	10*22456	P	9-14-16	MICHAEL V GODDARD	964	460
367	10*22457	P	9-14-16	CATHERINE M MESSNER	964	462
368	10*22522	P	9-14-16	JAMES D COCHRAN AND LINDA M COCHRAN	966	493
369	10*22523	P	9-14-16	DEBRA E MOORE AND SCOTT MOORE	966	490
370	10*22543	P	9-14-16	MITCHELL FORRESTER AND CECELIA FORRESTER	966	188
371	10*22544	P	9-14-16	MILDIE J HOFF AND DOUGLAS T HOFF	966	191
372	10*22602	P	9-14-16	CYNTHIA JO MOORE	966	484
373	10*22603	P	9-14-16	APRIL BERISFORD AND MICHAEL BERISFORD	966	487
374	10*22628	P	9-14-16	JAMES C BALL	966	586
375	10*22629	P	9-14-16	LISA R GODDARD	966	588
376	10*22782	P	9-14-16	JULIE LYNN SCOTT	972	43
377	10*23005	P	9-14-16	VIRGINIA E SAKALO AND MICHAEL A SAKALO	984	40
378	10*23331	P	9-14-16	JAQUELINE A PATTERSON AND CHARLES ALLEN PATTERSON	983	82
379	10*23453	P	9-14-16	ROGER W RHODES	1008	303
380	10*23457	P	9-14-16	GEORGIA MITCHELL ETAL HERMAN LANTZ, SPECIAL COMMISSIONER	108	305
381	10*23952	P	9-14-16	MATTHEW S BRITTON, A MINOR ERIC GORDON, SPECIAL COMMISSIONER	1020	247
382	10*24083	P	9-14-16	JOSEPH B CROW JR	1021	134
383	10*24240	P	9-14-16	ALF THOMAS MOORE AND CHERYL A MOORE	1022	362
384	10*24275	P	9-14-16	GEORGE B CROW JR AND SHIRLEY CROW	1023	485
385	10*24276	P	9-14-16	MARTHA L PULVER	1023	483
386	10*24277	P	9-14-16	HOWARD L KUHN AND MARY L KUHN	1023	488
387	10*24292	P	9-14-16	MARK CURTIS	1023	520
388	10*24401	P	9-14-16	JOSEPH KOLAKOWSKI JR	1024	322
389	10*24410	P	9-14-16	MICHAEL KOLAKOWSKI AND LEA KOLAKOWSKI	1024	319
390	10*24411	P	9-14-16	MARGIE M MILTON	1025	156
391	10*24412	P	9-14-16	JAMES P DERROW AND CHRISTINE M DERROW	1024	315
392	10*24414	P	9-14-16	ROBERT ALLEN SUTTON AND MICKIE L SUTTON	1024	313
393	10*24435	P	9-14-16	JAMES C ADAMS AND NICOLE D ADAMS	1025	158
394	10*24675	P	9-14-16	MICHELLE M KOLAKOWSKI	1027	126
395	10*24676	P	9-14-16	THERESA THOMAS	1025	338
396	10*24735	P	9-14-16	EARL SELMON	1027	304
397	10*24736	P	9-14-16	SUSAN L SCHULTE	1027	300
398	10*24764	P	9-14-16	MARLENA PENNINGTON ET AL	1027	594
399	10*24765	P	9-14-16	CRYSTAL CURTIS	1027	592

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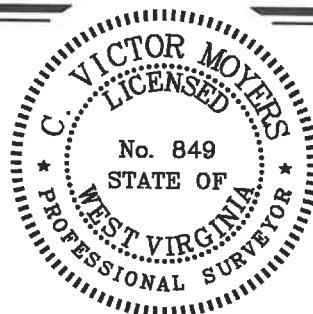
KEITH STERN N-16HU-REV2

DATE JUNE 11, 20 20

REVISED _____, 20 _____

OPERATORS WELL NO. KEITH STERN N-16HU

API WELL NO. 47 — 051 — 2242
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

**KEITH STERN N LEASE
UTICA UNIT - 631.99 AC±
WELL 16HU
TUG HILL OPERATING**



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 | 304.285.5295
slaw.com

400	10*24766	P	9-14-16	LLOYD E YOHO	1027	590
401	10*24857	P	9-14-16	JANET KIMBLE AND JOHN KIMBLE	1028	109
402	10*24873	P	9-14-16	WAYNE PRICE	1028	117
403	10*24874	P	9-14-16	DONALD SMOTHERMAN AND MARGARET SMOTHERMAN	1028	115
404	10*24876	P	9-14-16	JAMES D WHITE AND BRITNEY C WHITE	1028	113
405	10*24877	P	9-14-16	DEBORAH LEDGER AND JOHN H LEDGER	1028	111
406	10*25011	P	9-14-16	JOHN DAVID CROW	1029	537
407	10*25012	P	9-14-16	LARRY B PATTERSON	1029	535
408	10*25219	P	9-14-16	THE ESTATE OF PAUL W BLAKE	1030	125
409	10*25220	P	9-14-16	MISTY MOORE	1030	127
410	10*25221	P	9-14-16	CHARLES ROY SUTTON	1030	129
411	10*25321	P	9-14-16	CINDY L AND KERRY L WINTERS	1031	571
412	10*25498	P	9-14-16	DAN AND SHARON CVETANOVICH	1034	232
413	10*26626	P	9-14-16	MARLENA PENNINGTON	1027	594
414	10*23087	Q	9-14-12	REASON AND CATHERINE V YOUNG	68	69
415	10*19621	R	9-14-1	MARY RUTH FROHNAPPEL	938	596
416	10*19622	R	9-14-1	KENNETH D SIBURT JR AND LORI SIBURT	938	597
417	10*19623	R	9-14-1	SANDRA SIBURT FROWEN & GEORGE FROWEN	938	600
418	10*19627	R	9-14-1	RONALD S YOUNG	944	192
419	10*19655	R	9-14-1	CHESTNUT HOLDINGS INC	949	309
420	10*19678	R	9-14-1	WILLIAM O. JONES	944	188
421	10*19679	R	9-14-1	DAVID A DARRAH SR AND ANITA SLOUGH-DARRAH	946	54
422	10*19725	R	9-14-1	MAMIE V ARNOLD	944	454
423	10*21213	R	9-14-1	JAMES B SIBURT AND DELIA D SIBURT	957	1077
424	10*21214	R	9-14-1	VICKI J CHERRY AND RICKEY E CHERRY	949	139
425	10*21215	R	9-14-1	ALAN K SIBURT ET UX	949	136
426	10*21216	R	9-14-1	RODNEY L SIBURT	949	142
427	10*21859	R	9-14-1	GUY L BUZZARD TRUSTEE THE GUY L BUZZARD 2017 IRREVOCABLE TRUST	957	388
428	10*22464	R	9-14-1	DONNA KYLE	964	470
429	10*22465	R	9-14-1	LOIS KURPIL FKA LOIS HERCULES	964	472
430	10*22466	R	9-14-1	JUDITH MAY CONNER	964	468
431	10*22516	R	9-14-1	SHARON RUSSELL	964	464
432	10*22518	R	9-14-1	GEORGE EDWARDS	964	466
433	10*22856	R	9-14-1	CHARLES W MILLER AND ESTHER JEAN MILLER	977	51
434	10*23435	R	9-14-1	LLOYD C. ARNOLD & JUDITH C. ARNOLD	1008	301
435	10*15510	S	9-11-12	ELAINE PHELPS ET VIR	718	326
436	10*15511	S	9-11-12	DAVID E CROW	718	376
437	10*15512	S	9-11-12	FRANCES COFFEY	718	378
438	10*15513	S	9-11-12	KAY KEYS	718	330
439	10*15514	S	9-11-12	L PAUL CROW	718	336
440	10*15515	S	9-11-12	DESIRE L CROW	718	334
441	10*15516	S	9-11-12	ROSE MARIE KIELGCZEWSKI	718	354
442	10*15517	S	9-11-12	DIANNE GELLNER & GARY GELLNER	718	345
443	10*15518	S	9-11-12	JAMES P HOLLIDAY AND JACQUELINE HOLLIDAY	718	347
444	10*15519	S	9-11-12	JOHN CROW	726	580
445	10*15520	S	9-11-12	TIMOTHY CROW	726	582
446	10*19685	S	9-11-12	MORGAN H MOSSER AND NANCY MOSSER	944	445
447	10*21093	S	9-11-12	DUNCAN S LINN AND POLLY LU BROWN	952	157
448	10*21492	S	9-11-12	JUDITH FISK	957	282
449	10*21494	S	9-11-12	EILEEN M SLATE AND DALE A SLATE	957	284
450	10*21495	S	9-11-12	E JEN BAIRD AND GEORGE S BAIRD AMENDED REVOCABLE TRUST AGREEMENT	966	618
451	10*21843	S	9-11-12	JOHN B HOAGLAND AND PATRICIA A HOAGLAND	959	620
452	10*21923	S	9-11-12	DOROTHY JEAN BURKLE BOYD	953	468
453	10*22090	S	9-11-12	KATHERINE ANN BOYD BLAKE	953	473
454	10*22159	S	9-11-12	JODY A SCHÖTTLER AND THOMAS A SCHÖTTLER	953	470
455	10*22462	S	9-11-12	ROBERT CALDWELL MEAD	964	480
456	10*22608	S	9-11-12	SARAH BAIRD LINN	966	620
457	10*22666	S	9-11-12	JOSEPH W LINN JR AND TAMMY S LINN	968	230
458	10*22771	S	9-11-12	KATHARINE B SILBAUGH AND DANIEL JURAYJ	970	24
459	10*22855	S	9-11-12	KIM O MAGHAN AND JAMES G MAGHAN	977	49
460	10*23024	S	9-11-12	KATHRYN A TAGGART AND EVERETT TAGGART JR	977	289
461	10*23059	S	9-11-12	GAIL W STEWART	977	287
462	10*23165	S	9-11-12	EDITH BOYD ORR AND WENDELL FRANKLIN ORR	984	68
463	10*23389	S	9-11-12	LEESA O THOMPSON	972	45
464	10*23427	S	9-11-12	SANDY VINCENT AND STEVEN VINCENT	1008	307
465	10*23652	S	9-11-12	KATHARINE ATWOOD AND MICHAEL GRITTON	1009	309
466	10*23686	S	9-11-12	RANDALL T LULLOM AND ROSALIE FERMO-LULLOM	1010	400
467	10*23687	S	9-11-12	ELIZABETH F BAIRD	1010	402
468	10*23688	S	9-11-12	MELISSA DUROIS BAIRD	1010	404
469	10*23692	S	9-11-12	WILLIAM ATWOOD AND ELIZABETH ATWOOD	1010	408
470	10*23693	S	9-11-12	JOHN ATWOOD AND ANNETTE ATWOOD	1010	406
471	10*24222	S	9-11-12	SALVATION ARMY	1022	371
472	10*24282	S	9-11-12	CLARA OSBORNE DOUGLAS	1023	481
473	10*24296	S	9-11-12	KATHARINE D LINN	1023	522
474	10*24400	S	9-11-12	JANE W VARDY ET AL	1024	317
475	10*47051.123.1	S	9-11-12	LLOYD G BAKER	865	389
476	10*47051.123.2	S	9-11-12	JAMES P HOLLIDAY AND JACQUELINE HOLLIDAY	873	143
477	10*16258	T	9-11-13	CHESTNUT HOLDINGS INC	848	234
478	10*15582	U	9-11-10	ROBERT L CLARK	685	239
479	10*47051.108.1	V	9-11-9	MICHAEL A WHETZEL	885	51
480	10*47051.243.1	W	9-14-21	MARY A FOX	879	332
481	10*47051.243.2	W	9-14-21	PAUL G FOX	879	335
482	10*47051.243.3	W	9-14-21	MARK H FOX	879	338
483	10*47051.243.4	W	9-14-21	DAVID E FOX	876	55
484	10*47051.243.5	W	9-14-21	LOUIS T FOX AND KAREN A FOX	876	58
485	10*47051.243.6	W	9-14-21	THOMAS J FOX	876	61
486	10*15837	X	9-17-4.1	ANITA DIANE ANTILL AND TERRY ANTILL	742	85
487	10*15836	X	9-17-4.1	LUCINDA RAE ALLEN AND DAVID A ALLEN	742	79
488	10*15842	X	9-17-4.1	HOMER L SIMMONS AND GLADYS R SIMMONS	742	329
489	10*16007	X	9-17-4.1	MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER	799	436
490	10*16008	X	9-17-4.1	DONNA KAY ALLEN AND ROGER ALLEN	801	222
491	10*17500	X	9-17-4.1	TRACY L AND KEITH W BARNBY	916	116
492	10*17666	X	9-17-4.1	LILA FAYE BONAR SNODGRASS AND DONALD T SNODGRASS	949	172
493	10*17673	X	9-17-4.1	JAMES PERRY COCHRAN	932	567
494	10*17707	X	9-17-4.1	JACQUELYN S FERRARI AND JOHN C FERRARI	949	177
495	10*17709	X	9-17-4.1	CAROL GONGOLA	949	167
496	10*17765	X	9-17-4.1	ROBERTA YOUNG	949	163
497	10*17840	X	9-17-4.1	RONALD D KOONTZ & BETH ANN KOONTZ	942	432
498	10*17886	X	9-17-4.1	ANNETTE CAIN HANKINS AND HOWARD RONALD HANKINS	924	536
499	10*17887	X	9-17-4.1	LEO C HILKE AND BETTY M HILKE	924	531
500	10*17977	X	9-17-4.1	BRANNEN DAUGHTERY	925	359

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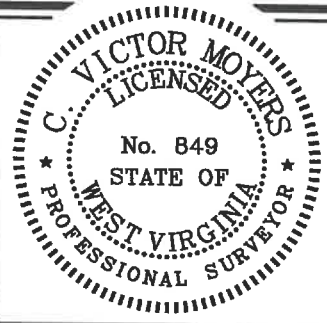
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KEITH STERN N-16HU-REV2

DATE JUNE 11, 20 20

REVISED _____, 20 _____

OPERATORS WELL NO. KEITH STERN N-16HU

API WELL NO. 47 — 051 — 2242
NO. 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 CT CORPORATION SYSTEM ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

COUNTY NAME _____ PERMIT _____

**KEITH STERN N LEASE
UTICA UNIT - 631.99 AC ±
WELL 16HU
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1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slswv.com

501	10*17980	X	9-17-4.1	ANITA RAE MILLER	925	370
502	10*17981	X	9-17-4.1	MICHAEL E SWIFT AND MELODY A SWIFT	925	372
503	10*18031	X	9-17-4.1	LEE ANNE MILLER	927	222
504	10*18092	X	9-17-4.1	DAVID MCDOWELL AND CRYSTAL MCDOWELL	927	283
505	10*18093	X	9-17-4.1	JENNIFER WHEATON	927	289
506	10*18094	X	9-17-4.1	BONNIE GRISELL	927	231
507	10*18095	X	9-17-4.1	TEXYN L MILLER AND GEORGIA A MILLER	927	287
508	10*18098	X	9-17-4.1	LISA ANN MCDOWELL AND ROBERT JOSEPH HILL	939	263
509	10*18099	X	9-17-4.1	RAE ELLEN FLOYD AND KENNETH FLOYD	927	233
510	10*18107	X	9-17-4.1	ANITA MAE MASON	927	238
511	10*18167	X	9-17-4.1	NEIL CALL AND MELINDA CALL	927	492
512	10*18168	X	9-17-4.1	SANDRA YANAGAWA	927	498
513	10*18169	X	9-17-4.1	KAREN K WILLIAMS	927	628
514	10*18170	X	9-17-4.1	KAREN MCDOWELL CECIL AND JAMES E CECIL	927	633
515	10*18192	X	9-17-4.1	STEPHEN S MASON AND CAROLE K MASON	928	625
516	10*18193	X	9-17-4.1	CAROLYN LEE FUREY AND MARTIN J FUREY	949	158
517	10*18194	X	9-17-4.1	PAMELA BEYLER AND CHAD R BEYLER	928	630
518	10*18197	X	9-17-4.1	BARBARA K BURLEY AND DAVID K BURLEY	928	641
519	10*18198	X	9-17-4.1	MARY THERESA SOLEAU AND THOMAS SOLEAU	928	643
520	10*18199	X	9-17-4.1	LAWRENCE J VAUGHN AND GAIL L VAUGHN	928	532
521	10*18260	X	9-17-4.1	GEMMA RUDY AND TIMOTHY RUDY	928	584
522	10*18295	X	9-17-4.1	THOMAS R BAKER AND VICKIE L BAKER	929	262
523	10*18298	X	9-17-4.1	MAUREEN GREGG	929	273
524	10*18300	X	9-17-4.1	ROBERT W ODOM AND CASSANDRA L ODOM	929	283
525	10*18361	X	9-17-4.1	MARY JO GAIN	931	407
526	10*18417	X	9-17-4.1	CHERYLL HILL	932	577
527	10*18487	X	9-17-4.1	NANCY L STANGEL AND JOHN J STANGEL	933	113
528	10*18488	X	9-17-4.1	CHARLINE M ENGLE AND KEVIN E ENGLE	933	118
529	10*18508	X	9-17-4.1	PATRICIA LUANNE BONAR	925	351
530	10*18517	X	9-17-4.1	LOBI SHANAHAN AND PATRICK SHANAHAN	933	575
531	10*18613	X	9-17-4.1	JANE LOUISE CAIN AND DANIEL CARL HOLTZ	934	603
532	10*18655	X	9-17-4.1	PATRICIA L LEHN	936	95
533	10*18656	X	9-17-4.1	PAMELA CALL	936	100
534	10*18658	X	9-17-4.1	ELIZABETH JANE KELLER	936	107
535	10*18659	X	9-17-4.1	CATHERINE P MASON	936	112
536	10*18799	X	9-17-4.1	CHARLES J DARMAFALL DECEASED	937	634
537	10*18805	X	9-17-4.1	CINDY STEVENS TOZIER	937	628
538	10*19373	X	9-17-4.1	JESSICA WHEATON	931	411
539	10*19403	X	9-17-4.1	LAWRENCE R LOTZ	951	114
540	10*19404	X	9-17-4.1	HOWARD M CAIN AND EMMA JEAN CAIN	939	283
541	10*19476	X	9-17-4.1	WINONA RIDDLE	941	331
542	10*19689	X	9-17-4.1	EDMOND TURGEON JR AND CATHY STEVENS TURGEON	944	156
543	10*19718	X	9-17-4.1	CHRISTOPHER DAUGHERTY & JENNIFER R DAUGHERTY	944	412
544	10*19879	X	9-17-4.1	MARY V GILSON AND WALTER M GILSON	945	588
545	10*19933	X	9-17-4.1	MARY ANN GRIFFITH	948	555
546	10*19937	X	9-17-4.1	JAMES D STEVENS AND DOROTHY M STEVENS	949	151
547	10*19938	X	9-17-4.1	JOHN H STEVENS AND LYNDA L STEVENS	949	144
548	10*21026	X	9-17-4.1	NANCY M MORGAN	951	110
549	10*21211	X	9-17-4.1	NILA JEAN BAYLES	951	118
550	10*21841	X	9-17-4.1	ENERGY DEEP RESOURCES INC	959	631
551	10*21842	X	9-17-4.1	JOSEPH NOKOVICH	959	635
552	10*21927	X	9-17-4.1	BLACK GOLD GROUP LTD	964	474
553	10*21940	X	9-17-4.1	ALYSIA JORDAN & TERRY M JORDAN	953	346
554	10*22376	X	9-17-4.1	MARGARET KUCHARZ AND JAMES C KUCHARZ	962	270
555	10*22412	X	9-17-4.1	CHAD E LONGFELLOW	963	124
556	10*22599	X	9-17-4.1	BRYANT R SWIFT AND KATHY SWIFT	966	456
557	10*22776	X	9-17-4.1	JAMES ROBERT WELLS	970	19
558	10*22849	X	9-17-4.1	NEIL MCELROY AND SUE MASON MCELROY	977	44
559	10*22851	X	9-17-4.1	JOHN J HELLSTERN AND LYNN D HELLSTERN	977	39
560	10*22853	X	9-17-4.1	RONALD LEE HENSLEY AND MARY ANN HENSLEY	977	34
561	10*23076	X	9-17-4.1	JACK R BERISFORD AKA RANDY BERISFORD	984	43
562	10*23260	X	9-17-4.1	IDA M TRAVIS ET AL DAVID C WHITE AS SPECIAL COMMISSIONER	988	73
563	10*23668	X	9-17-4.1	THE ESTATE OF RUTH N LUTHER SUZANNE L WOZNIAK EXECUTRIX	1009	286
564	10*47051.219.27	X	9-17-4.1	MARSHA BERISFORD	902	425
565	10*47051.219.33	X	9-17-4.1	JOHN H HILKE AND ALIDA HILKE	896	602
566	10*47051.219.36	X	9-17-4.1	CAREN MCDOWELL AND ELIZABETH MCDOWELL	898	615
567	10*47051.219.37	X	9-17-4.1	SUSAN H KEY	898	621
568	10*47051.219.38	X	9-17-4.1	TIMOTHY MCDOWELL AND CYNTHIA MCDOWELL	902	431
569	10*47051.219.39	X	9-17-4.1	AJICE THIPPHAVONG AND VISITH THIPPHAVONG	902	437
570	10*17169	X	9-17-4.1	ALMA L VAN SCYOC	692	467
571	10*17171	X	9-17-4.1	OPAL MCKEY	690	631
572	10*17173	X	9-17-4.1	LLOYD R. EVANS	694	526
573	10*47051.219.1	X	9-17-4.1	DAVID LEE FRANKLIN	874	312
574	10*19702	X	9-17-4.1	WV MINERALS INC	951	108
575	10*15836	Y	9-17-4	LUCINDA RAE ALLEN AND DAVID A ALLEN	742	79
576	10*15837	Y	9-17-4	ANITA DIANE ANTILL AND TERRY ANTILL	742	85
577	10*15842	Y	9-17-4	HOMER L SIMMONS AND GLADYS R SIMMONS	742	329
578	10*16007	Y	9-17-4	MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER	799	436
579	10*16008	Y	9-17-4	DONNA KAY ALLEN AND ROGER ALLEN	801	222
580	10*17500	Y	9-17-4	TRACY L AND KEITH W BARNBY	916	116
581	10*17666	Y	9-17-4	LILA FAYE BONAR SNODGRASS AND DONALD T SNODGRASS	949	172
582	10*17673	Y	9-17-4	JAMES PERRY COCHRAN	932	567
583	10*17707	Y	9-17-4	JACQUELYN S FERRARI AND JOHN C FERRARI	949	177
584	10*17709	Y	9-17-4	CAROL GONGOLA	949	167
585	10*17765	Y	9-17-4	ROBERTA YOUNG	949	163
586	10*17840	Y	9-17-4	RONALD D KOONTZ & BETH ANN KOONTZ	942	432
587	10*17886	Y	9-17-4	ANNETTE CAIN HANKINS AND HOWARD RONALD HANKINS	924	536
588	10*17887	Y	9-17-4	LEO C HILKE AND BETTY M HILKE	924	531
589	10*17977	Y	9-17-4	BRANNEN DAUGHERTY	925	359
590	10*17980	Y	9-17-4	ANITA RAE MILLER	925	370
591	10*17981	Y	9-17-4	MICHAEL E SWIFT AND MELODY A SWIFT	925	372
592	10*18031	Y	9-17-4	LEE ANNE MILLER	927	222
593	10*18092	Y	9-17-4	DAVID MCDOWELL AND CRYSTAL MCDOWELL	927	283
594	10*18093	Y	9-17-4	JENNIFER WHEATON	927	289
595	10*18094	Y	9-17-4	BONNIE GRISELL	927	231
596	10*18095	Y	9-17-4	TEXYN L MILLER AND GEORGIA A MILLER	927	287
597	10*18098	Y	9-17-4	LISA ANN MCDOWELL AND ROBERT JOSEPH HILL	939	263
598	10*18099	Y	9-17-4	RAE ELLEN FLOYD AND KENNETH FLOYD	927	233
599	10*18107	Y	9-17-4	ANITA MAE MASON	927	238
600	10*18167	Y	9-17-4	NEIL CALL AND MELINDA CALL	927	492
601	10*18168	Y	9-17-4	SANDRA YANAGAWA	927	498

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FILE NO. 8811P16HUAD.dwg
KEITH STERN N-16HU-REV2

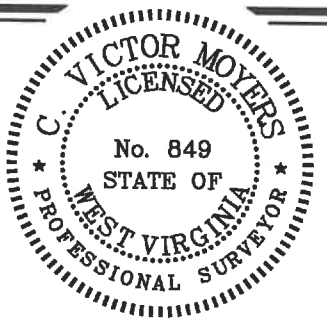
DATE JUNE 11, 2020

REVISED _____, 20____

OPERATORS WELL NO. KEITH STERN N-16HU

API WELL NO. 47 — 051 — 2242

STATE COUNTY PERMIT



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

10/14/2022

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 CT CORPORATION SYSTEM ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

COUNTY NAME PERMIT

**KEITH STERN N LEASE
UTICA UNIT - 631.99 AC±
WELL 16HU
TUG HILL OPERATING**



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 | 304.285.5296
slsvv.com

602	10*18169	Y	9-17-4	KAREN K WILLIAMS	927	628
603	10*18170	Y	9-17-4	KAREN MCDOWELL CECIL AND JAMES E CECIL	927	633
604	10*18192	Y	9-17-4	STEPHEN S MASON AND CAROLE K MASON	928	625
605	10*18193	Y	9-17-4	CAROLYN LEE FUREY AND MARTIN J FUREY	949	158
606	10*18194	Y	9-17-4	PAMELA BEYLER AND CHAD R BEYLER	928	630
607	10*18197	Y	9-17-4	BARBARA K BURLEY AND DAVID K BURLEY	928	641
608	10*18198	Y	9-17-4	MARY THERESA SOLEAU AND THOMAS SOLEAU	928	643
609	10*18199	Y	9-17-4	LAWRENCE J VAUGHN AND GAILL VAUGHN	928	532
610	10*18260	Y	9-17-4	GEMMA RUDY AND TIMOTHY RUDY	928	584
611	10*18295	Y	9-17-4	THOMAS R BAKER AND VICKIE L BAKER	929	262
612	10*18298	Y	9-17-4	MAUREEN GREGG	929	273
613	10*18300	Y	9-17-4	ROBERT W ODOM AND CASSANDRA L ODOM	929	283
614	10*18361	Y	9-17-4	MARY JO CAIN	931	407
615	10*18417	Y	9-17-4	CHERYL L HILL	932	577
616	10*18487	Y	9-17-4	NANCY L STANGEL AND JOHN J STANGEL	933	113
617	10*18488	Y	9-17-4	CHARLINE M ENGLE AND KEVIN E ENGLE	933	118
618	10*18508	Y	9-17-4	PATRICIA LUANNE BONAR	925	351
619	10*18517	Y	9-17-4	LORI SHANAHAN AND PATRICK SHANAHAN	933	575
620	10*18613	Y	9-17-4	JANE LOUISE CAIN AND DANIEL CARL HOLTZ	934	603
621	10*18655	Y	9-17-4	PATRICIA L LEHN	936	95
622	10*18656	Y	9-17-4	PAMELA CALL	936	100
623	10*18658	Y	9-17-4	ELIZABETH JANE KELLER	936	107
624	10*18659	Y	9-17-4	CATHERINE P MASON	936	112
625	10*18799	Y	9-17-4	CHARLES J DARMAFALL DECEASED	937	634
626	10*18806	Y	9-17-4	CINDY STEVENS TOZIER	937	628
627	10*19373	Y	9-17-4	JESSICA WHEATON	931	411
628	10*19403	Y	9-17-4	LAWRENCE R LOTZ	951	114
629	10*19404	Y	9-17-4	HOWARD M CAIN AND EMMA JEAN CAIN	939	283
630	10*19476	Y	9-17-4	WINONA RIDDLE	941	331
631	10*19689	Y	9-17-4	EDMOND TURGEON JR AND CATHY STEVENS TURGEON	944	156
632	10*19718	Y	9-17-4	CHRISTOPHER DAUGHERTY & JENNIFER R DAUGHERTY	944	412
633	10*19879	Y	9-17-4	MARY V GILSON AND WALTER M GILSON	945	588
634	10*19933	Y	9-17-4	MARY ANN GRIFFITH	948	555
635	10*19937	Y	9-17-4	JAMES D STEVENS AND DOROTHY M STEVENS	949	151
636	10*19938	Y	9-17-4	JOHN H STEVENS AND LYNDA L STEVENS	949	144
637	10*21026	Y	9-17-4	NANCY M MORGAN	951	110
638	10*21211	Y	9-17-4	NILA JEAN BAYLES	951	118
639	10*21841	Y	9-17-4	ENERGY DEEP RESOURCES INC	959	631
640	10*21842	Y	9-17-4	JOSEPH NOKOVICH	959	635
641	10*21927	Y	9-17-4	BLACK GOLD GROUP LTD	964	474
642	10*21940	Y	9-17-4	ALYSIA JORDAN & TERRY M JORDAN	953	346
643	10*22376	Y	9-17-4	MARGARET KUCHARZ AND JAMES C KUCHARZ	962	270
644	10*22412	Y	9-17-4	CHAD E LONGFELLOW	963	124
645	10*22599	Y	9-17-4	BRYANT R SWIFT AND KATHY SWIFT	966	456
646	10*22776	Y	9-17-4	JAMES ROBERT WELLS	970	19
647	10*22849	Y	9-17-4	NEIL MCELROY AND SUE MASON MCELROY	977	44
648	10*22851	Y	9-17-4	JOHN J HELSTERN AND LYNN D HELSTERN	977	39
649	10*22853	Y	9-17-4	RONALD LEE HENSLEY AND MARY ANN HENSLEY	977	34
650	10*23076	Y	9-17-4	JACK R BERISFORD AKA RANDY BERISFORD	984	43
651	10*23260	Y	9-17-4	IDA M TRAVIS ET AL DAVID C WHITE AS SPECIAL COMMISSIONER	988	73
652	10*23668	Y	9-17-4	THE ESTATE OF RUTH N LUTHER SUZANNE L WOZNIAR EXECUTRIX	1009	286
653	10*47051.219.27	Y	9-17-4	MARSHA BERISFORD	902	425
654	10*47051.219.33	Y	9-17-4	JOHN H HILKE AND ALIDA HILKE	898	602
655	10*47051.219.36	Y	9-17-4	GAREN MCDOWELL AND ELIZABETH MCDOWELL	898	615
656	10*47051.219.37	Y	9-17-4	SUSAN H KEY	898	621
657	10*47051.219.38	Y	9-17-4	TIMOTHY MCDOWELL AND CYNTHIA MCDOWELL	902	431
658	10*47051.219.39	Y	9-17-4	ALICE THIPPHAVONG AND VISITH THIPPHAVONG	902	437
659	10*17169	Y	9-17-4	ALMA L VAN SCYOC	692	404
660	10*17171	Y	9-17-4	OPAL MICKEY	690	631
661	10*17173	Y	9-17-4	LLOYD R. EVANS	694	526
662	10*47051.219.1	Y	9-17-4	DAVID LEE FRANKLIN	874	312
663	10*19702	Y	9-17-4	WV MINERALS INC	951	108
664	10*15832	Z	9-17-3	ANITA DIANE ANTILL AND TERRY ANTILL	742	121
665	10*15835	Z	9-17-3	LUCINDA RAE ALLEN AND DAVID A ALLEN	742	104
666	10*15847	Z	9-17-3	ROGER BRIGHT AND SUSAN LEIMER - DECEASED	743	285
667	10*15848	Z	9-17-3	HOMER L SIMMONS AND GLADYS R SIMMONS	745	194
668	10*15855	Z	9-17-3	ALICE THIPPHAVONG AND VISITH THIPPHAVONG	747	635
669	10*15856	Z	9-17-3	LEO C HILKE AND BETTY M HILKE	747	629
670	10*15870	Z	9-17-3	JOHN H HILKE AND ALIDA HILKE	750	206
671	10*15872	Z	9-17-3	SUSAN H KEY	751	191
672	10*15836	AA	9-17-4.4	LUCINDA RAE ALLEN AND DAVID A ALLEN	742	79
673	10*15837	AA	9-17-4.4	ANITA DIANE ANTILL AND TERRY ANTILL	742	85
674	10*15842	AA	9-17-4.4	HOMER L SIMMONS AND GLADYS R SIMMONS	742	329
675	10*16007	AA	9-17-4.4	MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER	799	436
676	10*16008	AA	9-17-4.4	DONNA KAY ALLEN AND ROGER ALLEN	801	222
677	10*17500	AA	9-17-4.4	TRACY L AND KEITH W BARNBY	916	116
678	10*17566	AA	9-17-4.4	LILA FAYE BONAR SNODGRASS AND DONALD T SNODGRASS	949	172
679	10*17573	AA	9-17-4.4	JAMES PERRY COCHRAN	932	567
680	10*17707	AA	9-17-4.4	JACQUELYN S FERRARI AND JOHN C FERRARI	949	177
681	10*17709	AA	9-17-4.4	CAROL GONGOLA	949	167
682	10*17765	AA	9-17-4.4	ROBERTA YOUNG	949	163
683	10*17840	AA	9-17-4.4	RONALD D KOONTZ & BETH ANN KOONTZ	942	432
684	10*17886	AA	9-17-4.4	ANNETTE CAIN HANKINS AND HOWARD RONALD HANKINS	924	536
685	10*17887	AA	9-17-4.4	LEO C HILKE AND BETTY M HILKE	924	531
686	10*17977	AA	9-17-4.4	BRANNEN DAUGHERTY	925	359
687	10*17980	AA	9-17-4.4	ANITA RAE MILLER	925	370
688	10*17981	AA	9-17-4.4	MICHAEL SWIFT AND MELODY A SWIFT	925	372
689	10*18613	AA	9-17-4.4	JANE LOUISE CAIN AND DANIEL CARL HOLTZ	934	603
690	10*18031	AA	9-17-4.4	LEE ANNE MILLER	927	222
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692	10*18093	AA	9-17-4.4	JENNIFER WHEATON	927	289
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702	10*18192	AA	9-17-4.4	STEPHEN S MASON AND CAROLE K MASON	928	625

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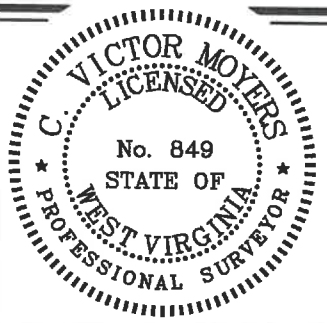
DATE JUNE 11, 20 20

REVISED _____, 20 _____

OPERATORS WELL NO. KEITH STERN N-16HU

API WELL NO. 47 — 051 — 2242

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752	10*47051.219.36	AA	9-17-4.4	GAREN MCDOWELL AND ELIZABETH MCDOWELL	898	615
753	10*47051.219.37	AA	9-17-4.4	SUSAN H KEY	898	621
754	10*47051.219.38	AA	9-17-4.4	TIMOTHY MCDOWELL AND CYNTHIA MCDOWELL	902	431
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764	10*18618	BB	9-15-43	ANITA DIANE ANTILL AND TERRY ANTILL	934	615
765	10*18767	BB	9-15-43	HOMER L SIMMONS AND GLADYS R SIMMONS	938	486
766	10*18767	BB	9-15-43	HOMER L SIMMONS AND GLADYS R SIMMONS	938	486
767	10*47051.219.33	BB	9-15-43	JOHN H HILKE AND ALIDA HILKE	898	602
768	10*47051.219.37	BB	9-15-43	SUSAN H KEY	898	621
769	10*47051.219.39	BB	9-15-43	ALICE THIPPHAVONG AND VISITH THIPPHAVONG	902	437
770	10*15837	CC	9-17-4.3	ANITA DIANE ANTILL AND TERRY ANTILL	742	85
771	10*15836	CC	9-17-4.3	LUCINDA RAE ALLEN AND DAVID A ALLEN	742	79
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783	10*17887	CC	9-17-4.3	LEO C HILKE AND BETTY M HILKE	924	531
784	10*17977	CC	9-17-4.3	BRAUNEN DAUGHERTY	925	359
785	10*17980	CC	9-17-4.3	ANITA RAE MILLER	925	370
786	10*17981	CC	9-17-4.3	MICHAEL E SWIFT AND MELODY A SWIFT	925	372
787	10*18031	CC	9-17-4.3	LEE ANNE MILLER	927	222
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801	10*18194	CC	9-17-4.3	PAMELA BEYLER AND CHAD R BEYLER	928	630
802	10*18197	CC	9-17-4.3	BARBARA K BURLEY AND DAVID K BURLEY	928	641
803	10*18198	CC	9-17-4.3	MARY THERESA SOLEAU AND THOMAS SOLEAU	928	643

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WV Department of
Environmental Protection

FILE NO. 8811P16HUAD.dwg
KEITH STERN N-16HU-REV2

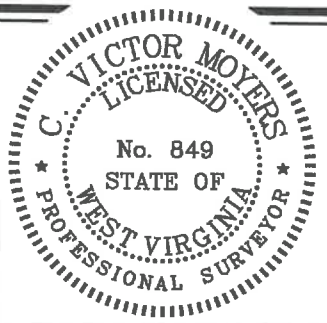
DATE JUNE 11, 20 20

REVISED _____, 20 _____

OPERATORS WELL NO. KEITH STERN N-16HU

API WELL NO. 47 — 051 — 2242

STATE COUNTY PERMIT



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

10/14/2022

P.S. 849 *C. Victor Moyers*

COUNTY NAME _____ PERMIT _____

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

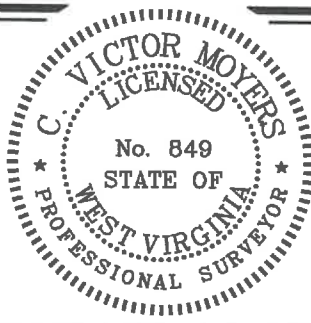
**KEITH STERN N LEASE
UTICA UNIT - 631.99 AC ±
WELL 16HU
TUG HILL OPERATING**



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
slswv.com

804	10*18199	CC	9-17-4.3	LAWRENCE J VAUGHN AND GAIL L VAUGHN	928	532
805	10*18260	CC	9-17-4.3	GEMMA RUDY AND TIMOTHY RUDY	928	584
806	10*18295	CC	9-17-4.3	THOMAS R BAKER AND VICKIE L BAKER	929	262
807	10*18298	CC	9-17-4.3	MAUREEN GREGG	929	273
808	10*18300	CC	9-17-4.3	ROBERT W ODOM AND CASSANDRA L ODOM	929	283
809	10*18361	CC	9-17-4.3	MARY JO CAIN	931	407
810	10*18417	CC	9-17-4.3	CHERYL L HILL	932	577
811	10*18487	CC	9-17-4.3	NANCY L STANGEL AND JOHN J STANGEL	933	113
812	10*18488	CC	9-17-4.3	CHARLINE M ENGLE AND KEVIN E ENGLE	933	118
813	10*18508	CC	9-17-4.3	PATRICIA LUANNE BONAR	925	351
814	10*18517	CC	9-17-4.3	LORI SHANAHAN AND PATRICK SHANAHAN	933	575
815	10*18613	CC	9-17-4.3	JANE LOUISE CAIN AND DANIEL CARL HOLTZ	934	603
816	10*18655	CC	9-17-4.3	PATRICIA L LEHN	936	95
817	10*18656	CC	9-17-4.3	PAMELA CALL	936	100
818	10*18658	CC	9-17-4.3	ELIZABETH JANE KELLER	936	107
819	10*18659	CC	9-17-4.3	CATHERINE P MASON	936	112
820	10*18799	CC	9-17-4.3	CHARLES J DARMAFALL DECEASED	937	634
821	10*18805	CC	9-17-4.3	CINDY STEVENS TOZIER	937	628
822	10*19373	CC	9-17-4.3	JESSICA WHEATON	931	411
823	10*19403	CC	9-17-4.3	LAWRENCE R LOTZ	951	114
824	10*19404	CC	9-17-4.3	HOWARD M CAIN AND EMMA JEAN CAIN	939	283
825	10*19476	CC	9-17-4.3	WINONA RIDDLE	941	331
826	10*19689	CC	9-17-4.3	EDMOND TURGEON JR AND CATHY STEVENS TURGEON	944	156
827	10*19718	CC	9-17-4.3	CHRISTOPHER DAUGHERTY & JENNIFER R DAUGHERTY	944	412
828	10*19879	CC	9-17-4.3	MARY V GILSON AND WALTER M GILSON	945	588
829	10*19933	CC	9-17-4.3	MARY ANN GRIFFITH	948	555
830	10*19937	CC	9-17-4.3	JAMES D STEVENS AND DOROTHY M STEVENS	949	151
831	10*19938	CC	9-17-4.3	JOHN H STEVENS AND LYNDA L STEVENS	949	144
832	10*21026	CC	9-17-4.3	NANCY M MORGAN	951	110
833	10*21211	CC	9-17-4.3	NILA JEAN BAYLES	951	118
834	10*21841	CC	9-17-4.3	ENERGY DEEP RESOURCES INC	959	631
835	10*21842	CC	9-17-4.3	JOSEPH NOKOVICH	959	635
836	10*21927	CC	9-17-4.3	BLACK GOLD GROUP LTD	964	474
837	10*21940	CC	9-17-4.3	ALYSSA JORDAN & TERRY M JORDAN	953	346
838	10*22376	CC	9-17-4.3	MARGARET KUCHARZ AND JAMES C KUCHARZ	962	270
839	10*22412	CC	9-17-4.3	CHAD E LONGFELLOW	963	124
840	10*22599	CC	9-17-4.3	BRYANT R SWIFT AND KATHY SWIFT	966	456
841	10*22776	CC	9-17-4.3	JAMES ROBERT WELLS	970	19
842	10*22849	CC	9-17-4.3	NEL MCELROY AND SUE MASON MCELROY	977	44
843	10*22851	CC	9-17-4.3	JOHN J HELSTERN AND LYNN D HELSTERN	977	39
844	10*22853	CC	9-17-4.3	RONALD LEE HENSLEY AND MARY ANN HENSLEY	977	34
845	10*23076	CC	9-17-4.3	JACK R BERISFORD AKA RANDY BERISFORD	984	43
846	10*23260	CC	9-17-4.3	IDA M TRAVIS ET AL DAVID C WHITE AS SPECIAL COMMISSIONER	988	73
847	10*23668	CC	9-17-4.3	THE ESTATE OF RUTH N LUTHER SUZANNE L WOZNIAR EXECUTRIX	1009	286
848	10*47051.219.27	CC	9-17-4.3	MARSHA BERISFORD	902	425
849	10*47051.219.33	CC	9-17-4.3	JOHN H HILKE AND ALIDA HILKE	898	602
850	10*47051.219.36	CC	9-17-4.3	GAREN MCDOWELL AND ELIZABETH MCDOWELL	898	615
851	10*47051.219.37	CC	9-17-4.3	SUSAN H KEY	898	621
852	10*47051.219.38	CC	9-17-4.3	TIMOTHY MCDOWELL AND CYNTHIA MCDOWELL	902	431
853	10*47051.219.39	CC	9-17-4.3	AUCE THIPPHAVONG AND VISITH THIPPHAVONG	902	437
854	10*17169	CC	9-17-4.3	ALMA L VAN SCYOC	692	404
855	10*17171	CC	9-17-4.3	OPAL MICKY	690	631
856	10*17173	CC	9-17-4.3	LLOYD R. EVANS	694	526
857	10*47051.219.1	CC	9-17-4.3	DAVID LEE FRANKLIN	874	312
858	10*19702	CC	9-17-4.3	WV MINERALS INC	951	108
859	10*15836	DD	9-17-4.2	LUCINDA RAE ALLEN AND DAVID A ALLEN	742	79
860	10*15837	DD	9-17-4.2	ANITA DIANE ANTILL AND TERRY ANTILL	742	85
861	10*15842	DD	9-17-4.2	HOMER L SIMMONS AND GLADYS R SIMMONS	742	329
862	10*16007	DD	9-17-4.2	MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER	799	436
863	10*16008	DD	9-17-4.2	DONNA KAY ALLEN AND ROGER ALLEN	801	222
864	10*17500	DD	9-17-4.2	TRACY L AND KEITH W BARNBY	916	116
865	10*17666	DD	9-17-4.2	LILA FAYE BONAR SNODGRASS AND DONALD T SNODGRASS	949	172
866	10*17673	DD	9-17-4.2	JAMES PERRY COCHRAN	932	567
867	10*17707	DD	9-17-4.2	JACQUELYN S FERRARI AND JOHN C FERRARI	949	177
868	10*17709	DD	9-17-4.2	CAROL GONGOLA	949	167
869	10*17765	DD	9-17-4.2	ROBERTA YOUNG	949	163
870	10*17840	DD	9-17-4.2	RONALD D KOONTZ & BETH ANN KOONTZ	942	432
871	10*17886	DD	9-17-4.2	ANNETTE CAIN HANKINS AND HOWARD RONALD HANKINS	924	536
872	10*17887	DD	9-17-4.2	LEO C HILKE AND BETTY M HILKE	924	531
873	10*17977	DD	9-17-4.2	BRANNEN DAUGHERTY	925	359
874	10*17980	DD	9-17-4.2	ANITA RAE MILLER	925	370
875	10*17981	DD	9-17-4.2	MICHAEL SWIFT AND MELODY A SWIFT	925	372
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880	10*18094	DD	9-17-4.2	BONNIE GRISSELL	927	231
881	10*18095	DD	9-17-4.2	TBYN L MILLER AND GEORGIA A MILLER	927	287
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883	10*18099	DD	9-17-4.2	RAE ELLEN FLOYD AND KENNETH FLOYD	927	233
884	10*18107	DD	9-17-4.2	ANITA MAE MASON	927	238
885	10*18167	DD	9-17-4.2	NEL CALL AND MELINDA CALL	927	492
886	10*18168	DD	9-17-4.2	SANDRA YANAGAWA	927	498
887	10*18169	DD	9-17-4.2	KAREN K WILLIAMS	927	628
888	10*18170	DD	9-17-4.2	KAREN MCDOWELL CECIL AND JAMES E CECIL	927	633
889	10*18192	DD	9-17-4.2	STEPHEN S MASON AND CAROLE K MASON	928	625
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P.S. 849 *C. Victor Moyers*

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KEITH STERN N-16HU-REV2
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NO. STATE COUNTY PERMIT

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

COUNTY NAME PERMIT

**KEITH STERN N LEASE
UTICA UNIT - 631.99 AC ±
WELL 16HU
TUG HILL OPERATING**



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964	10*18019	EE	9-17-5	SUSAN H KEY	927	272
965	10*18020	EE	9-17-5	ALICE THIPPHAVONG AND VISITH THIPPHAVONG	927	270
966	10*18031	EE	9-17-5	LEE ANNE MILLER	927	222
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973	10*18107	EE	9-17-5	ANITA MAE MASON	927	238
974	10*18113	EE	9-17-5	JOHN H HILKE	927	159
975	10*18167	EE	9-17-5	NEIL CALLAND MELUNDA CALL	927	492
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978	10*18170	EE	9-17-5	KAREN MCDOWELL CECIL AND JAMES E CECIL	927	633
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SEP 30 2022

WV Department of
Environmental Protection

FILE NO. 8811P16HUAD.dwg
KEITH STERN N-16HU-REV2

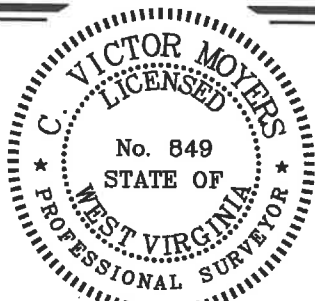
DATE JUNE 11, 20 20

REVISED _____, 20

OPERATORS WELL NO. KEITH STERN N-16HU

API WELL NO. 47 — 051 — 2242

NO. 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

**KEITH STERN N LEASE
UTICA UNIT - 631.99 AC±
WELL 16HU
TUG HILL OPERATING**



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
slswv.com

1006	10*19689	EE	9-17-5	EDMOND TURGEON JR AND CATHY STEVENS TURGEON	944	156
1007	10*19718	EE	9-17-5	CHRISTOPHER DAUGHERTY & JENNIFER R DAUGHERTY	944	412
1008	10*19879	EE	9-17-5	MARY V GILSON AND WALTER M GILSON	945	588
1009	10*19933	EE	9-17-5	MARY ANN GRIFFITH	948	555
1010	10*19937	EE	9-17-5	JAMES D STEVENS AND DOROTHY M STEVENS	949	151
1011	10*19938	EE	9-17-5	JOHN H STEVENS AND LYNDA L STEVENS	949	144
1012	10*21026	EE	9-17-5	NANCY M MORGAN	951	110
1013	10*21211	EE	9-17-5	NILA JEAN BAYLES	951	118
1014	10*21841	EE	9-17-5	ENERGY DEEP RESOURCES INC	959	631
1015	10*21842	EE	9-17-5	JOSEPH NOKOVICH	959	635
1016	10*21927	EE	9-17-5	BLACK GOLD GROUP LTD	964	474
1017	10*21940	EE	9-17-5	ALYSIA JORDAN & TERRY M JORDAN	953	346
1018	10*22376	EE	9-17-5	MARGARET KUCHARZ AND JAMES C KUCHARZ	962	270
1019	10*22412	EE	9-17-5	CHAD E LONGFELLOW	963	124
1020	10*22599	EE	9-17-5	BRYANT R SWIFT AND KATHY SWIFT	966	456
1021	10*22776	EE	9-17-5	JAMES ROBERT WELLS	970	19
1022	10*22849	EE	9-17-5	NEIL MCELROY AND SUE MASON MCELROY	977	44
1023	10*22851	EE	9-17-5	JOHN J HELLSTERN AND LYNN D HELLSTERN	977	39
1024	10*22853	EE	9-17-5	RONALD LEE HENSLEY AND MARY ANN HENSLEY	977	34
1025	10*23076	EE	9-17-5	JACK R BERISFORD AKA RANDY BERISFORD	984	43
1026	10*23260	EE	9-17-5	IDA M TRAVIS ET AL DAVID C WHITE AS SPECIAL COMMISSIONER	988	73
1027	10*23668	EE	9-17-5	THE ESTATE OF RUTH N LUTHER SUZANNE L WOZNIAK EXECUTRIX	1009	286
1028	10*47051.219.27	EE	9-17-5	MARSHA BERISFORD	902	425
1029	10*47051.219.36	EE	9-17-5	GAREN MCDOWELL AND ELIZABETH MCDOWELL	898	635
1030	10*19702	EE	9-17-5	WV MINERALS INC	951	108
1031	10*17169	EE	9-17-5	ALMA L VAN SCYOC	692	404
1032	10*17171	EE	9-17-5	OPAL MICKY	690	631
1033	10*17173	EE	9-17-5	LLOYD R EVANS	694	526
1034	10*47051.219.1	EE	9-17-5	DAVID LEE FRANKUN	874	312
1035	10*21095	FF	9-15-40.1	TIMOTHY LEE COLLEY	951	200
1036	10*21096	FF	9-15-40.1	GEORGE L DUNN AND NANCY MARIE DUNN	951	194
1037	10*21097	FF	9-15-40.1	JAMES DUNN AND DONNA K DUNN	951	197
1038	10*21205	FF	9-15-40.1	RONALD W REINBEAU	953	85
1039	10*21207	FF	9-15-40.1	KEITH W STORCH AND DERORAH A STORCH	951	209
1040	10*21208	FF	9-15-40.1	JOHN T CRISWELL AND CATHERINE A CRISWELL	951	206
1041	10*21210	FF	9-15-40.1	PETER G STORCH AND LAURIE L STORCH	951	203
1042	10*21231	FF	9-15-40.1	JENNIFER SHAWN GLOVER	953	89
1043	10*21232	FF	9-15-40.1	JEFFREY BRYAN CRISWELL	953	92
1044	10*21233	FF	9-15-40.1	WILLIAM LINSLEY CRISWELL	953	95
1045	10*21398	FF	9-15-40.1	LYNN ELLIOTT AND JUDITH ELLIOTT	957	301
1046	10*21872	FF	9-15-40.1	ROSEMARIE BERISFORD	953	484
1047	10*21399	FF	9-15-40.1	MARY M MORRIS	956	642
1048	10*21528	FF	9-15-40.1	PATRICIA KIRCHNER	959	305
1049	10*21839	FF	9-15-40.1	WILLIAM BRYAN COLLEY	959	445
1050	10*21845	FF	9-15-40.1	PATRICIA DOFKA	959	448
1051	10*21865	FF	9-15-40.1	FRANK A STORCH JR AND SUSAN STORCH	959	442
1052	10*21874	FF	9-15-40.1	CHAZ AARON COLLEY AND DANA COLLINS	953	475
1053	10*21957	FF	9-15-40.1	CATHERINE I AND ERNEST M SILVERIO	960	15
1054	10*21966	FF	9-15-40.1	DAVID HALL AND SANDRA SUE HALL	959	644
1055	10*21973	FF	9-15-40.1	REID ELATTRACHE AND TONYA ELATTRACHE	960	502
1056	10*21980	FF	9-15-40.1	CHARLES C SEAMON	954	344
1057	10*21989	FF	9-15-40.1	NEL SCHAFFER AND CHRISTAL L SCHAFFER	953	481
1058	10*22112	FF	9-15-40.1	EMMA JO CRISWELL	961	349
1059	10*22127	FF	9-15-40.1	JUDITH L BENEDICT AND LOUIS G BENEDICT	961	343
1060	10*22159	FF	9-15-40.1	JOSHUA W SEAMON	953	478
1061	10*22833	FF	9-15-40.1	RANDY W MORRIS SR AND CHERYL MORRIS	966	465
1062	10*25524	FF	9-15-40.1	JAMES P MILLER	1009	375
1063	10*25534	FF	9-15-40.1	LINDA K AND MICHAEL HUMES	1010	565
1064	10*24721	FF	9-15-40.1	JAMES R SNIDER AND CYNTHIA L SNIDER	1025	617
1065	10*15833	GG	9-17-7	LUCINDA RAE ALLEN AND DAVID A ALLEN	742	73
1066	10*15834	GG	9-17-7	ANITA DIANE ANTILL AND TERRY ANTILL	742	110
1067	10*15841	GG	9-17-7	HOMER L SIMMONS AND GLADYS R SIMMONS	742	366
1068	10*24120	GG	9-17-7	CHARLES E THOSS	1022	360
1069	10*24490	GG	9-17-7	GREGORY M TARR AND KEREN B TARR	1025	353
1070	10*25620	GG	9-17-7	THE GRACIA BAKER REVOCABLE LIVING TRUST DATED JULY 12 2011	1023	300
1071	10*26423	GG	9-17-7	PATRICIA & MICHAEL QUARANTO	1034	593
1072	10*26695	GG	9-17-7	DERORAH JEAN TARR-UNKNOWN HEIRS	1041	437
1073	10*26905	GG	9-17-7	JONATHAN RANKIN	1036	117
1074	10*26906	GG	9-17-7	ELIZABETH A GREEN TRUST	1036	111
1075	PENDING	GG	9-17-7	CHRISTINE RANKIN SMALLWOOD	PENDING	PENDING
1076	10*26907	GG	9-17-7	CHARLES S TARR	1036	123
1077	10*47051.185.1	HH	9-17-39	HOMER L SIMMONS AND GLADYS R SIMMONS	885	68
1078	10*47051.185.2	HH	9-17-39	LUCINDA RAE ALLEN AND DAVID A ALLEN	894	482
1079	10*47051.185.3	HH	9-17-39	ANITA DIANE ANTILL AND TERRY ANTILL	885	71
1080	10*47051.185.1	II	9-17-38	HOMER L SIMMONS AND GLADYS R SIMMONS	885	68
1081	10*47051.185.2	II	9-17-38	LUCINDA RAE ALLEN AND DAVID A ALLEN	894	482
1082	10*47051.185.3	II	9-17-38	ANITA DIANE ANTILL AND TERRY ANTILL	885	71
1083	10*47051.185.1	JJ	9-17-38.1	HOMER L SIMMONS AND GLADYS R SIMMONS	885	68
1084	10*47051.185.2	JJ	9-17-38.1	LUCINDA RAE ALLEN AND DAVID A ALLEN	894	482
1085	10*47051.185.3	JJ	9-17-38.1	ANITA DIANE ANTILL AND TERRY ANTILL	885	71
1086	10*15802	KK	9-17-37	TOM GOULDSBERRY	683	640
1087	10*15803	KK	9-17-37	CHARLOTTE CROW	683	631
1088	10*15804	KK	9-17-37	JOE GOULDSBERRY	683	637
1089	10*15805	KK	9-17-37	MARY ELLEN CHAMBERS	684	82
1090	10*15806	KK	9-17-37	JOANNE FOX	683	634
1091	10*15807	KK	9-17-37	GLORIS VAN SCYOC	685	190
1092	10*15808	KK	9-17-37	ANGELA YOHO	685	193
1093	10*15809	KK	9-17-37	RYAN J AND MICHELE L RIDDLE	687	225
1094	10*15810	KK	9-17-37	FLOSSIE P RUTAN	690	266
1095	10*15811	KK	9-17-37	SANDRA M WINSLOW	719	51
1096	10*21969	KK	9-17-37	MARK WESLEY RICHARDSON	960	507

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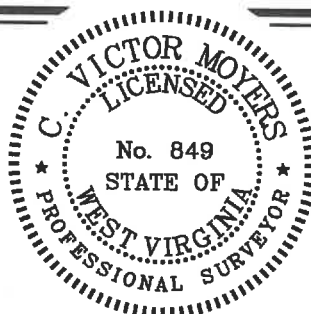
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