

**KNOB CREEK S LEASE
UTICA UNIT - 325.12 AC ±
WELL 16HU
TUG HILL OPERATING**

A.D.
B.H.

T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°45'00"

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

NAD'83 S.P.C.(FT)	N. 464,891.03	E. 1,629,708.20
NAD'83 GEO.	LAT-(N) 39.770124	LONG-(W) 80.705339
NAD'83 UTM (M)	N. 4,402,285.21	E. 525,236.36

LANDING POINT

NAD'83 S.P.C.(FT)	N. 464,762.1	E. 1,631,519.6
NAD'83 GEO.	LAT-(N) 39.769836	LONG-(W) 80.698889
NAD'83 UTM (M)	N. 4,402,255.2	E. 525,788.9

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 457,002.2	E. 1,635,850.5
NAD'83 GEO.	LAT-(N) 39.748692	LONG-(W) 80.683119
NAD'83 UTM (M)	N. 4,399,913.1	E. 527,147.8

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°40'00"
472' B.H. A.D.
7,847' T.H. A.D.

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

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

NAD'83 S.P.C.(FT)	N. 464,891.03	E. 1,629,708.20
NAD'83 GEO.	LAT-(N) 39.770124	LONG-(W) 80.705339
NAD'83 UTM (M)	N. 4,402,285.21	E. 525,236.36

LANDING POINT

NAD'83 S.P.C.(FT)	N. 464,333.9	E. 1,631,790.9
NAD'83 GEO.	LAT-(N) 39.768671	LONG-(W) 80.697903
NAD'83 UTM (M)	N. 4,402,128.1	E. 525,873.7

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 457,007.2	E. 1,635,858.4
NAD'83 GEO.	LAT-(N) 39.748706	LONG-(W) 80.683091
NAD'83 UTM (M)	N. 4,399,914.7	E. 527,150.2

A.D.
T.H.

TAG	SURFACE OWNER	PARCEL	ACRES
A	DAVID LEE FRANKLIN	9-14-33	65.824
B	MARGARET FOX - LIFE	9-14-39	8,675 SQ. FT
C	DAVID LEE FRANKLIN	9-14-44	2.913
D	TWILA C. COFFIELD	9-14-32	0.583
E	TWILA C. COFFIELD	9-14-32.1	0.184
F	RICHARD L. HARVETH, ET UX	9-14-54	1.649
G	ANDREW FASOULETOS, ET UX	9-14-29.1	1.171
H	ANDREW FASOULETOS, ET UX	9-14-29	0.209
I	CHARLES R. SCHELLHASE, ET UX	9-14-28	3.029
J	PATRICK J. SCHELLHASE TRUST	9-14-11.3	23.424
K	JOHN F. CUNNINGHAM, ET UX	9-14-22	75.22
L	WILLIAM KEITH STERN, ET UX	9-14-23	107.133
M	RONALD R. YOUNG, ET UX - LIFE	9-16-15	52.02
N	ALICE FAYE WINLAND	9-16-19	75.00
O	DAVID P. WARSINSKY & ELLEN K. NYLES	9-17-1	70.00
P	I. C. YOUNG ESTATE	9-17-2	140.00
Q	ROBERT J. COMBS, ET AL	9-18-9	110.75
R	WSD PROPERTIES, I.LC	9-17-41	25.57
S	BETTY J. GOULDSBERRY ESTATE, ET AL	9-18-11	60.00
T	BETTY J. GOULDSBERRY ESTATE, ET AL	9-18-10	20.00
U	I. C. YOUNG ESTATE	9-17-40	51.44
V	I. C. YOUNG ESTATE	9-19-1	80.00
W	I. C. YOUNG ESTATE	9-19-2	80.00

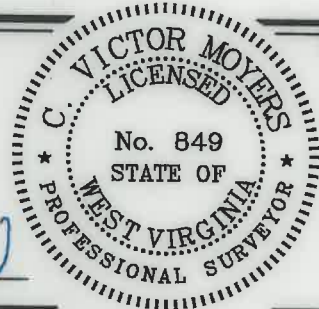
NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- SEE REFERENCES FOR DWELLINGS LOCATED WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.
- BASED ON WV DOT COUNTY ROUTE 74 IS A 40' STRIP OF LAND ACQUIRED IN NUMEROUS DEEDS.
- PROPOSED LATERAL OR TOP HOLE OF KNOB CREEK S-16HU (47-051-02290) IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF EXISTING WELLS
 KNOB CREEK N-11HU (47-051-02287),
 KNOB CREEK N-12HU (47-051-02288),
 KNOB CREEK N-13HU (47-051-02269),
 KNOB CREEK S-14HU (47-051-02288),
 KNOB CREEK S-15HU (47-051-02289),
 KEITH STERN N-13HU (47-051-02265),
 KEITH STERN N-14HU (47-051-02252),
 KEITH STERN S-17HU (47-051-02266),
 KEITH STERN S-18HU (47-051-02243).
- AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
- PLAT UPDATED TO SHOW AS-DRILLED PATH.



12 Vanhorn Drive | P.O. Box 150 | Stennville, WV 25351 | 304.462.5654
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Decibley Bypass | Decibley, WV 25001 | 304.255.5296
sllsv.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 MAY 21, 20 21
REVISED _____, 20 _____
OPERATORS WELL NO. KNOB CREEK S-16HU
API WELL NO. 47 - 051 - 02290
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8789P16HUAD.dwg
KNOB CREEK S-16HU REV4
HORIZONTAL & VERTICAL SCALE 1" = 2000'
CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)

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

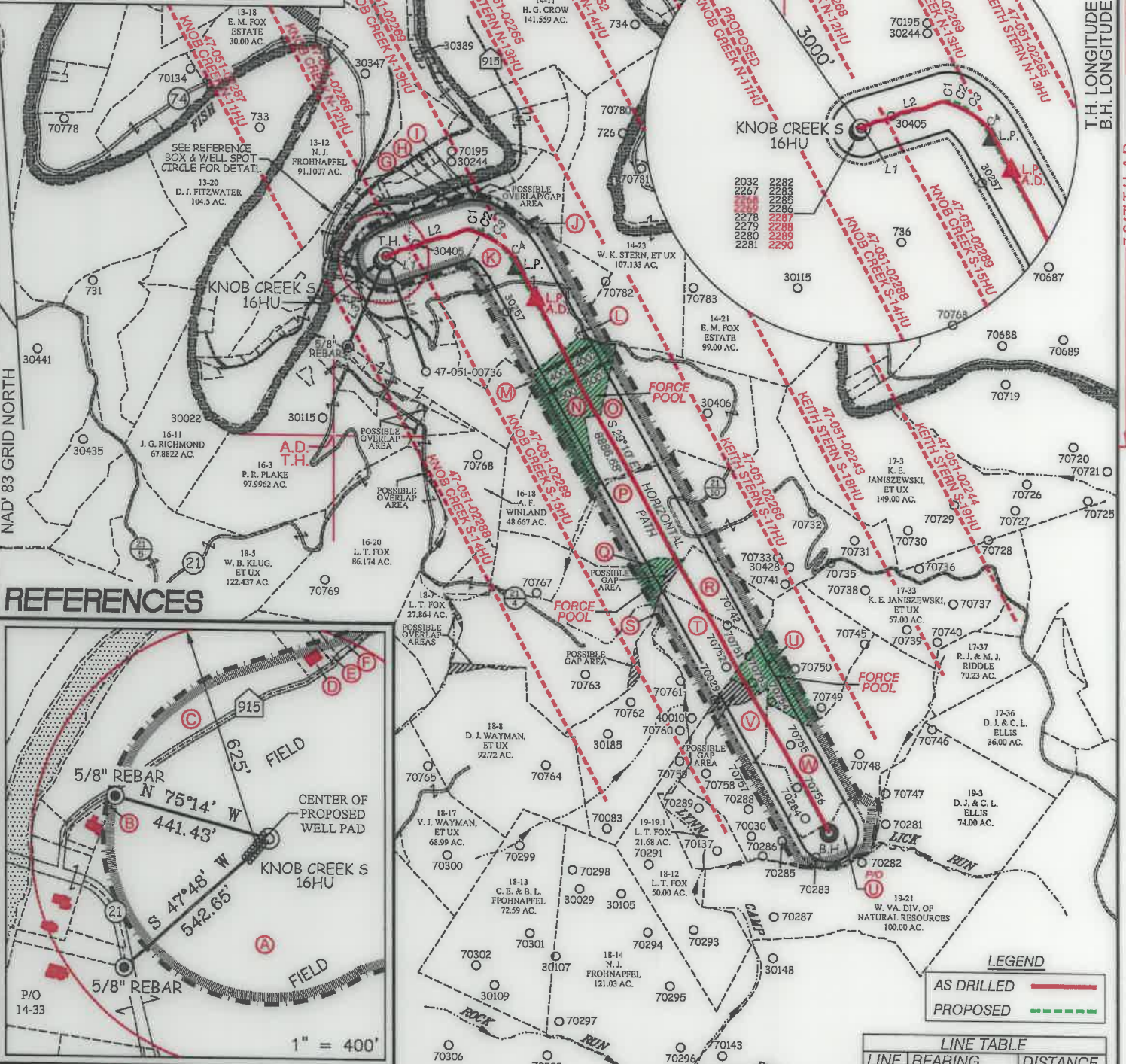


WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION X STORAGE _____ DEEP X SHALLOW _____
LOCATION: GROUND = 729.30' ELEVATION PROPOSED = 734.67' WATERSHED FISH CREEK (HUC 10)
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'
SURFACE OWNER DAVID LEE FRANKLIN ACREAGE 65.824±
ROYALTY OWNER DAVID LEE FRANKLIN, ET AL - SEE ADDITIONAL SHEETS ACREAGE 65.824±
PROPOSED WORK: LEASE NO. SEE ADDITIONAL SHEETS
DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE X 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: 11,351' TMD: 20,709'

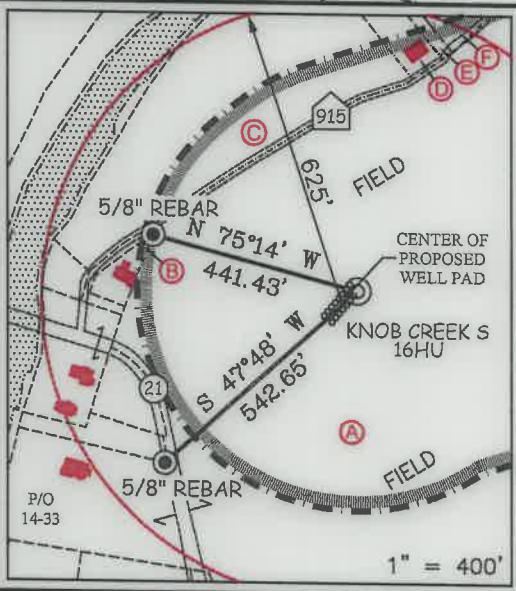
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 ADDRESS CHARLESTON, WV 25313

COUNTY NAME
PERMIT

**Knob Creek S Lease
Utica Unit - 325.12 AC ±
Well 16HU
Tug Hill Operating**



REFERENCES



LEGEND

AS DRILLED ———
PROPOSED - - - - -

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 50°58' E	52.35'
L2	N 72°02' E	1183.45'
L3	S 22°57' W	1355.45'
L4	S 19°14' E	1673.35'

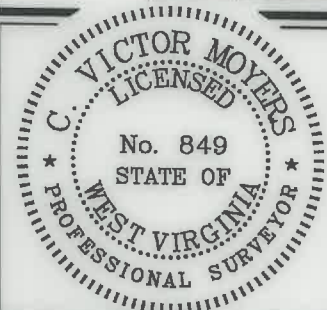
CHORD BEARING				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	84.77'	192.50'	N 87°26' E	84.09'
C2	105.13'	371.28'	S 71°22' E	104.78'
C3	244.70'	848.35'	S 53°59' E	243.85'
C4	443.09'	1552.92'	S 36°47' E	441.59'

12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
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SCALE 1" = 2000' FILE NO. 8789P16HUAD.dwg
KNOB CREEK S-16HU REV4

DATE MAY 21, 20 21
REVISED _____, 20 _____

OPERATORS WELL NO. KNOB CREEK S-16HU

API WELL NO. **47 — 051 — 02290**

NO. STATE COUNTY PERMIT

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

WELL OPERATOR TUG HILL OPERATING, LLC ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107	DESIGNATED AGENT DIANNA STAMPER CT CORPORATION SYSTEM ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313
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WELL 16HU
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NO.	Lease ID	Parcel	Tag#	Grantor, Lessor, Etc.	Deed Book/Page	
1	10*47051.219.1	9-14-33	A	DAVID LEE FRANKLIN	874	312
2	10*47051.219.1	9-14-39	B	DAVID LEE FRANKLIN	937	385
3	10*47051.219.1	9-14-44	C	DAVID LEE FRANKLIN	937	385
4	10*47051.219.1	9-14-32	D	DAVID LEE FRANKLIN	937	385
5	10*47051.219.1	9-14-32.1	E	DAVID LEE FRANKLIN	937	385
6	10*15523	9-14-54	F	RICHARD L HARVETH AND SANDRA J HARVETH	729	638
7	10*22394	9-14-29.1	G	THE ANDREW & KAREN FASOULETOS 2017 IRREVOCABLE TRUST DATED SEPT 14 2017	964	513
8	10*22394	9-14-29	H	THE ANDREW & KAREN FASOULETOS 2017 IRREVOCABLE TRUST DATED SEPT 14 2017	964	513
9	10*23053	9-14-28	I	C E YOUNG	63	146
10	10*23053	9-14-11.3	J	CE YOUNG	63	146
11	10*16479	9-14-22	K	JOHN F CUNNINGHAM AND BERNEICE K CUNNINGHAM	826	88
12	10*15812	9-14-23	L	WILLIAM K STERN AND BETTY L STERN, ET AL	687	220
13	10*23112	9-16-15	M	JOHN V AND RACHEL M SHEPHERD	63	219
14	10*18424	9-16-19	N	BRENDA J LOHRUM, ET AL	932	590
15	*FORCE POOL* 10*23112	9-16-19	N	JOHN V AND RACHEL M SHEPHERD	63	219
16	10*17135	9-17-1	O	ELLEN K NYLES	919	625
17	10*17136	9-17-1	O	DAVID P WARSINSKY	919	627
18	10*15910	9-17-2	P	SHIRLEY KOONTZ, ET AL	701	303
19	*FORCE POOL*	9-18-9	Q	CATHARINE V B YOUNG AND A J YOUNG	164	534
20	PENDING	9-17-41	R	JOHN T GALLAHER AND EMILY J GALLAHER	68	471
21	10*15938	9-18-11	S	MARK W YOHO, ET AL	695	157
22	10*15938	9-18-10	T	MARK W YOHO, ET AL	695	157
23	*FORCE POOL* 10*23194	9-17-40	U	ALBERT HARTLEY AND CHRISTOPHER HARTLEY	60	160
24	10*15937	9-19-1	V	SHIRLEY KOONTZ, ET AL	707	619
25	10*18610	9-19-2	W	NEIL ROBERT YOUNG, ET AL	934	636

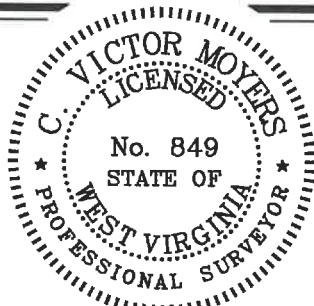
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DIVISION OF
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10/21/2022

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