

HILLROCK LEASE WELL S-13HU 371.8352± ACRES

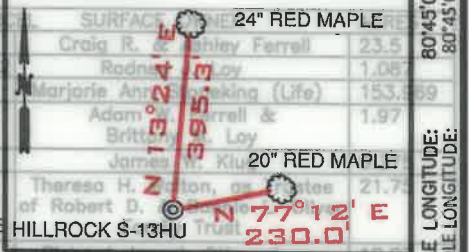
(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

DETAIL SKETCH "A" SCALE 1"=100'

- SIMMS 3HM (051-01469)
- SIMMS 2HM (051-01468)
- SIMMS 1HM (051-01452)
- HILLROCK 11HM (02173)
- HILLROCK 20HM (02064)
- HILLROCK 8HM (02063)
- SIMMS U-3HM (01731)
- HILLROCK 7HM (02062)
- HILLROCK 6HM (02061)
- HILLROCK 4HM (02055)
- HILLROCK S-15HU (02263)
- HILLROCK S-14HU (02262)
- HILLROCK S-13HU (02273)
- HILLROCK S-12HU (02272)

TOP HOLE LATITUDE: 39°45'00"
BOTTOM HOLE LATITUDE: 39°45'00"

REFERENCES SCALE 1"=400'



NOTE: PERMITTED COORDINATES ARE ON PAGE 2.

400' BORE PATH OFFSET
500' WELL BORE OFFSET

NOTE: PERMITTED COORDINATES ON PAGE 2.

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,399,565.05
E) 519,683.02

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,399,516.58
E) 519,700.57

AZIMUTH POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,399,374.23
E) 519,819.75

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,396,588.46
E) 521,424.16

- LEGEND**
- LEASE TRACTS
 - SURFACE TRACTS
 - WELL LATERAL
 - POINT PLEASANT LEGS
 - UNIT BOUNDARY
 - (A) LEASE # (SEE 6A1 FORM)

- NOTES**
- BORE PATH BASED ON GRID NORTH.
 - NO WATER WELLS WITHIN 250' OF WELL WERE FOUND. NO DWELLINGS WITHIN 625' OF PAD CENTER WERE FOUND.
 - OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN MARCH, 2019. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
 - WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.
 - ALL DEEP WELLS SHOWN ON THIS PLAT.

AS DRILLED LEG
PERMITTED LEG

LINE	BEARING	DISTANCE
L1	N 32°24' W	2112.02'
L2	S 33°31' E	1867.02'
L3	S 49°53' W	44.79'
L4	S 45°31' E	252.95'
L5	S 51°27' E	140.33'
L6	S 28°59' E	10,550.88'

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 60°50' W	34.94'	28.95'	37.51'
C2	N 89°17' E	13.31'	7.34'	29.47'
C3	N 56°38' W	203.55'	639.95'	204.42'
C4	N 50°21' W	511.97'	4753.72'	512.22'
C5	N 39°15' W	26.18'	45.84'	26.56'
C6	S 53°57' E	45.36'	109.69'	45.71'
C7	S 51°46' E	457.14'	8563.86'	457.20'
C8	S 38°59' E	809.31'	1691.08'	612.65'

NOTE:
C8 is LP to AZL
L6 is AZL to BH

FILE NUMBER _____
DRAWING NUMBER: HILLROCK S-13HU REV 2
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING, GRADE GPS

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET, SE
CHARLESTON, WV 25304

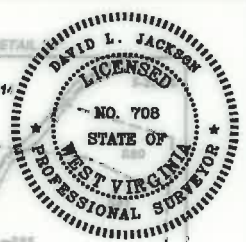
I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

David L Jackson

P.S. 708



JACKSON SURVEYING INC.
P.O. Box 1480
Clarksburg, WV 26302
304-623-5851



WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION STORAGE ___ DEEP SHALLOW ___
LOCATION ELEVATION 1219.6' WATERSHED (HUC 10) FISH CREEK
DISTRICT FRANKLIN COUNTY MARSHALL
QUADRANGLE NEW MARTINSVILLE 7.5' LEASE NUMBER SEE WW-6A1 Form

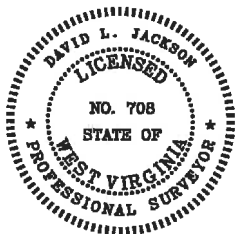
SURFACE OWNER TERRY E. & DEBORAH SIMMS ACREAGE 123.09
OIL & GAS ROYALTY OWNER TERRY E. & DEBORAH L. SIMMS, ET AL LEASE ACREAGE 123.09
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___
PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) AS DRILLED
TARGET FORMATION POINT PLEASANT WELL # HILLROCK S-13HU PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

DATE: FEBRUARY 05, 2021
OPERATORS WELL NO. HILLROCK S-13HU
API WELL NO. 47-051-02273
STATE WV COUNTY MARSHALL PERMIT 02273

ESTIMATED DEPTH TVD: 11,540' TMD: 23,081'
DATE: 06/25/2021

**HILLROCK LEASE
WELL S-13HU
371.8352± ACRES**

Lease No.	Tags	Parcel	Grantor, Lessor, Etc.	Book	Page
10*14140	A	5-23-7	TERRY E SIMMS AND DEBORAH L SIMMS	666	529
10*22496	AA	12-3-1	JAMES W KLUG	923	543
10*14126	B	5-17-11	SHARON MIDCAP	697	152
10*17186	C	5-23-6	ROBERT J HENRY	708	51
10*17191	D	5-23-8.1	ROBERT J HENRY ET AL	715	463
10*14797	F	5-24-5.4	ORVILLE YOUNG ET AL	800	598
10*14797	F	5-24-5.5	ORVILLE YOUNG ET AL	800	598
10*14797	G	5-24-5.3	ORVILLE YOUNG ET AL	800	598
10*14797	H	5-24-5	ORVILLE YOUNG ET AL	800	598
10*14786	I	5-23-10	TWILA O WHIPKEY ET AL	799	61
10*14786	J	5-23-11.1	TWILA O WHIPKEY ET AL	799	61
10*14558	K	5-24-6	KLOVA ANN MORRIS ET AL	765	434
10*14786	L	5-25-20	TWILA O WHIPKEY ET AL	799	61
10*14728	M	5-25-1	IRIS K MOELLENDICK ET AL	839	509
10*19727	N	5-25-14	S RICHARD MELLON ET AL	944	465
10*14728	O	5-25-13.2	IRIS K MOELLENDICK ET AL	839	509
10*14728	P	5-25-13	IRIS K MOELLENDICK ET AL	839	509
10*14728	Q	5-25-1.5	IRIS K MOELLENDICK ET AL	839	509
10*27612	R	5-25-13.4	HELEN M THAYER ET AL	1060	566
10*16120	S	5-25-12.1	KENT & BETTY MASON	927	75
10*19727	T	5-25-14.1	S RICHARD MELLON ET AL	944	465
10*14926	U	5-25-12	NILA JUNE MASON ET AL	842	394
10*22496	V	5-25-11.2	JAMES W KLUG	923	543
10*22494	W	5-25-11.4	EDWARD W KLUG & DIANNA KLUG	920	109
10*22494	X	5-25-11.1	EDWARD W KLUG & DIANNA KLUG	920	109
10*23287	Y	12-3-44	JAMES A ESTEP AND JO C ESTEP	211A	221
10*22984	Z	12-3-47	WETZEL COUNTY EMERGENCY AMBULANCE AUTHORITY INC	209A	748



P.S.
708

David L Jackson

06/25/2021



**TUG HILL
OPERATING**

OPERATOR'S
APT #: 47-051-02273
WELL #: HILLROCK S-13HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV

WELL PLAT
PAGE 3 OF 3
DATE: 02/05/2021