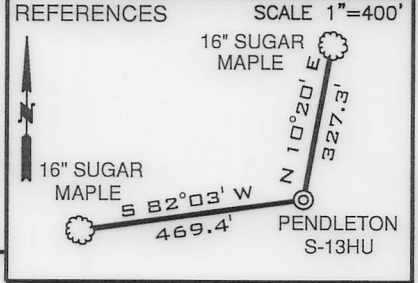


PENDLETON LEASE WELL S-13HU 186.1712± ACRES

LINE	BEARING	DISTANCE
L1	N 01°28' E	2,856.99'
L2	N 76°16' W	2,376.75'
L3	N 43°19' W	439.46'
L4	N 42°40' W	453.37'

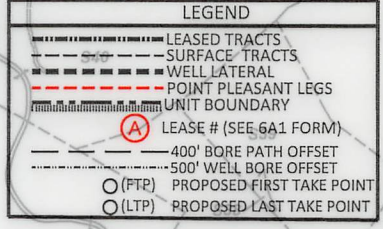
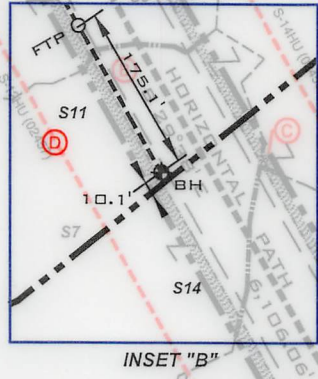
TOP HOLE LATITUDE: 39°47'30"
 BOTTOM HOLE LATITUDE: 39°45'00"



Deep Wells Within 2400' of Proposed Well's Surface Location and/or 500' of Well Lateral

API	OPERATOR
47-051-02441	Tug Hill Operating, LLC
47-051-02454	Tug Hill Operating, LLC
47-051-02455	Tug Hill Operating, LLC
47-051-02457	Tug Hill Operating, LLC
47-051-02456	Tug Hill Operating, LLC
47-051-02459	Tug Hill Operating, LLC
47-051-02460	Tug Hill Operating, LLC

- 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 MAY, 2022. 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.
 - L.P.1 AND (L.T.P.) ARE AT THE SAME POINT.
 - THE FTP IS OVER 500' PERPENDICULAR TO THE BOUNDARY.
 - BOUNDARIES ALONG ROADWAYS ARE BASED UPON MEMORANDUM BY DICKIE, MCCAMEY & CHILCOTE, P.C. FILE 0058304.0401147



SURFACE HOLE
 UTM: NAD83, ZONE 17
 IN METERS
 N) 4,400,424.23
 E) 522,796.06

LANDING POINT 1
 UTM: NAD83, ZONE 17
 IN METERS
 N) 4,400,412.60
 E) 522,711.98

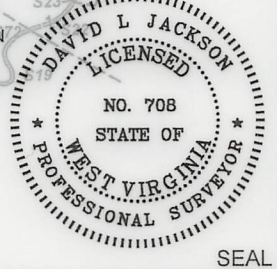
BOTTOM HOLE
 UTM: NAD83, ZONE 17
 IN METERS
 N) 4,398,811.00
 E) 523,658.73

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 45°20' E	24.90'	99.48'	24.97'
C2	S 75°46' W	7.06'	3.72'	9.31'
C3	S 12°22' E	22.61'	80.59'	22.68'
C4	S 23°13' E	111.60'	910.94'	111.67'
C5	S 27°04' E	313.36'	5902.82'	313.39'
C6	S 28°58' E	341.49'	13570.85'	341.50'

FILE NUMBER _____
 DRAWING NUMBER: PENDLETON_S-13HU REV 5
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION SUBMETER MAPPING
GRADE GPS

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



JACKSON SURVEYING INC.
 P.O. Box 1460
 Clarksburg, WV 26302
 304-623-5851

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

WELL TYPE: OIL OF GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS") PRODUCTION STORAGE _____ DEEP SHALLOW _____

LOCATION ELEVATION 1271.82' WATERSHED (HUC 10) FISH CREEK
 DISTRICT FRANKLIN COUNTY MARSHALL
 QUADRANGLE GLEN EASTON 7.5' LEASE NUMBER SEE WW-6A1 Form

P.S. *David L Jackson*
 SURFACE OWNER ALPINE FARM, LLC ACREAGE 249.07
 OIL & GAS ROYALTY OWNER ELI A. & FANNIE MAE WENGERD, ET AL LEASE ACREAGE 249.07
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION _____
 PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE (SPECIFY) _____
 TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,785' TMD: 18,163'
 WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN, CT CORP
 ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107 ADDRESS 5098 WASHINGTON STREET WEST, SUITE 407 CHARLESTON, WV 25313-1561

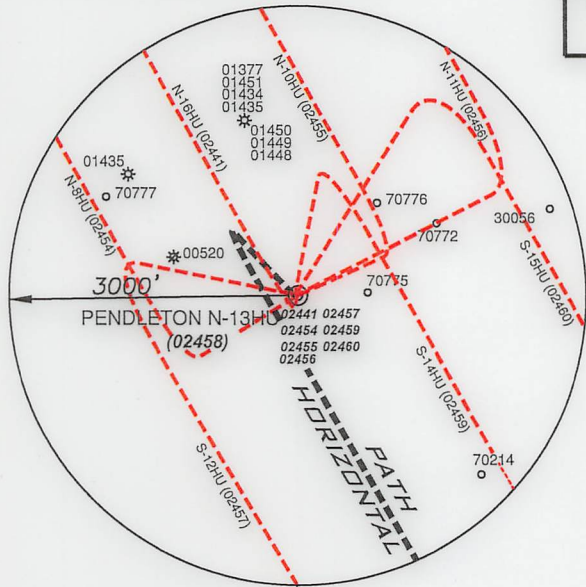
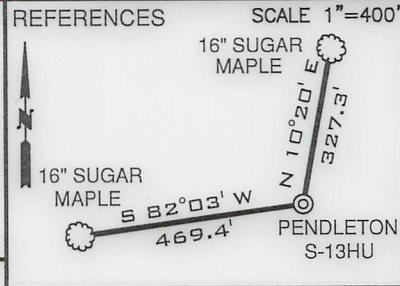
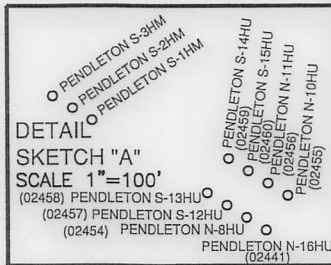
08/26/2022

COUNTY NAME PERMIT

**PENDLETON LEASE
WELL S-13HU
186.1712± ACRES**

LINE	BEARING	DISTANCE
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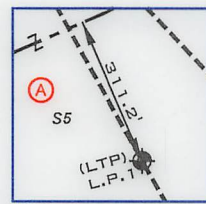
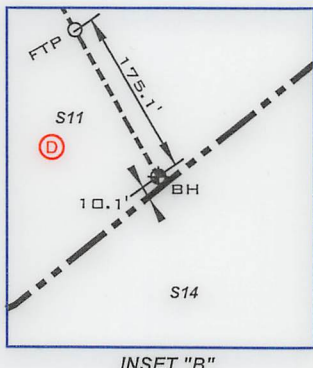


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LEGEND

- LEASED TRACTS
- SURFACE TRACTS
- WELL LATERAL
- POINT PLEASANT LEGS
- UNIT BOUNDARY
- (A) LEASE # (SEE 6A1 FORM)
- 400' BORE PATH OFFSET
- 500' WELL BORE OFFSET
- (FTP) PROPOSED FIRST TAKE POINT
- (LTP) PROPOSED LAST TAKE POINT

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,400,424.23
E) 522,796.06

LANDING POINT 1
UTM. NAD83, ZONE 17
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UTM. NAD83, ZONE 17
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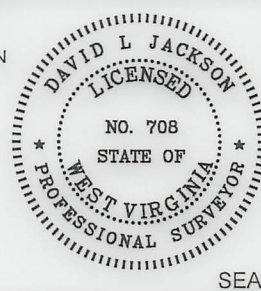
FILE NUMBER _____
DRAWING NUMBER: PENDLETON_S-13HU REV 5
SCALE 1" = 2000'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION SUBMETER MAPPING
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P.S. 708

David L Jackson

JACKSON SURVEYING INC.
P.O. Box 1460
Clarksburg, WV 26302
304-623-5851



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

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___

LOCATION ELEVATION 1271.82' WATERSHED (HUC 10) FISH CREEK

DISTRICT FRANKLIN COUNTY MARSHALL
QUADRANGLE GLEN EASTON 7.5' LEASE NUMBER SEE WW-6A1 Form

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TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,785' TMD: 18,163'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN, CT CORP
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107 ADDRESS 5098 WASHINGTON STREET WEST, SUITE 407 CHARLESTON, WV 25313-1561

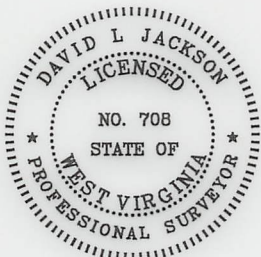
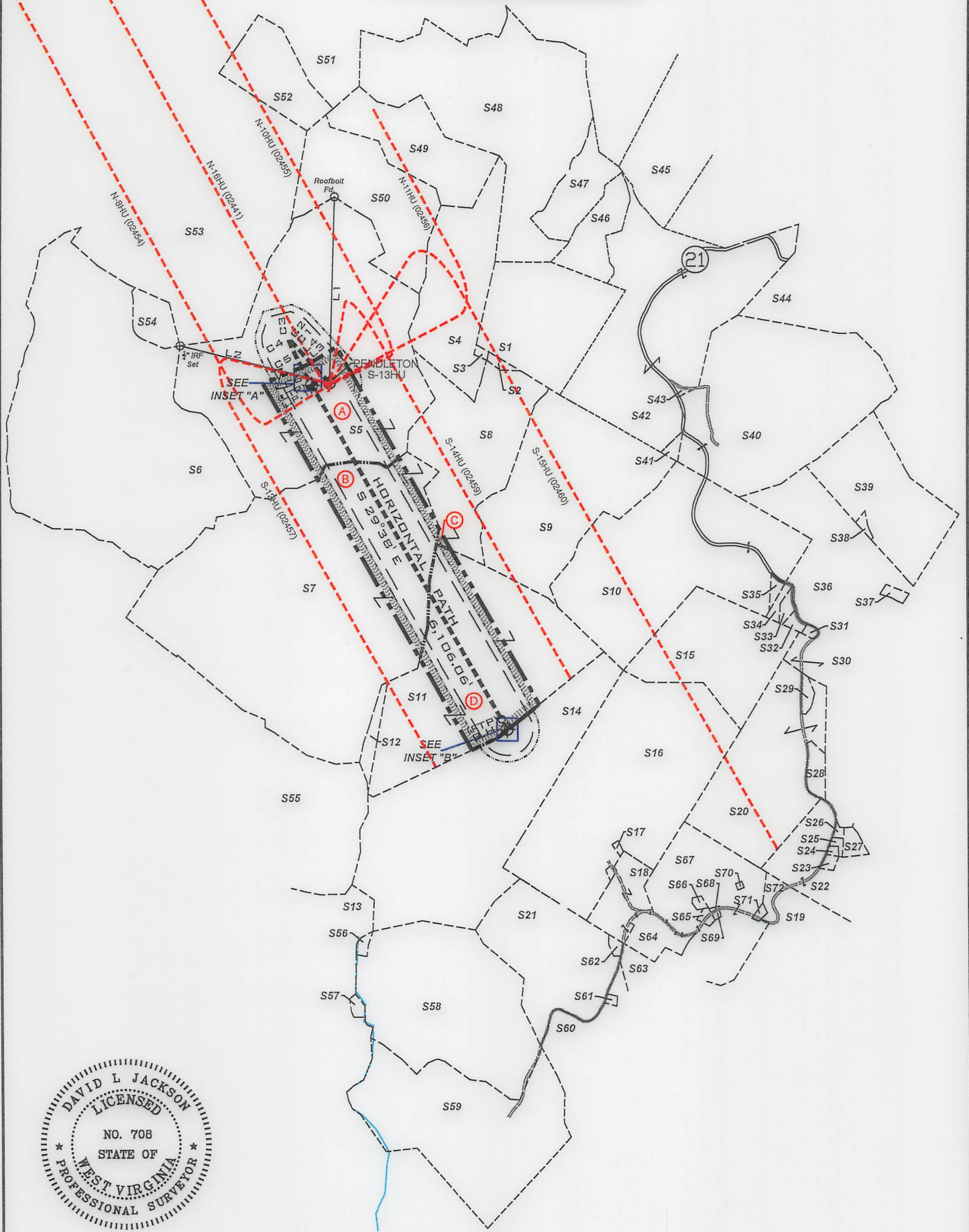
08/26/2022

COUNTY NAME PERMIT

PENDLETON LEASE WELL S-13HU 186.1712± ACRES

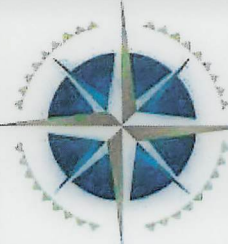
LEGEND

- LEASE TRACTS
- SURFACE TRACTS
- WELL LATERAL
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- UNIT BOUNDARY
- (A) LEASE # (SEE GA1 FORM)
- 400' BORE PATH OFFSET
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P.S. 708 *David L Jackson*

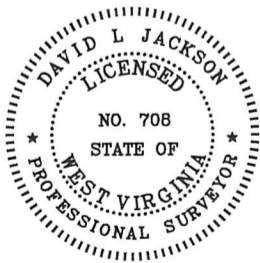
08/26/2022

 <h2 style="margin: 0;">TUG HILL</h2> <h3 style="margin: 0;">OPERATING</h3>	OPERATOR'S	WELL PLAT	
	WELL #:	PENDLETON S-13HU	PAGE 2 OF 4
	DISTRICT:	Franklin	DATE: 08/03/2022
	COUNTY:	Marshall	
	STATE:	WV	
API #:	047-051-02458		

**PENDLETON LEASE
WELL S-13HU
186.1712± ACRES**

Parcels within Unit Boundary				
Tags	Number	Tax Map -Parcel	Surface Owner	Acres
A	S5	05-17-06	ALPINE FARM LLC	249.07
B	S7	05-24-02	ROY FRIEND YOHO	316.80
C	S8	09-18-01	THERESA MAE LONG THOMAS ET AL	58.66
D	S11	09-20-02	MICHAEL JAMES PEKULA ET UX	138
Adjoining Parcels				
	Number	Tax Map -Parcel	Surface Owner	Acres
	S1	09-16-04	BERTHA L KLUG	73.39
	S2	09-18-03	BERTHA L KLUG	1.33
	S3	09-18-04	BERTHA L KLUG	1
	S4	09-16-03	BERTHA L KLUG	71
	S6	05-17-08	ROGER H HALL JR	257.50
	S9	09-18-02	BRIAN T KLUG	85
	S10	09-18-18	JAMES D. FROHNAPFEL ET UX	154.03
	S12	09-20-01	MICHAEL JAMES PEKULA ET UX	5
	S13	05-25-03	USA TIMBER AND LAND AUCTIONS LLC	181.548
	S14	09-20-04	SHELLIE J PEKULA	171
	S15	09-20-06	KEITH & KRISTY FERRELL REVOCABLE LIVING TRUST	64.74
	S16	09-20-05	GERALD A ET UX FROHNAPFEL - TRUST	164.143
	S17	09-20-5.2	WHEELING CATHOLIC DIOCESE	.447
	S18	09-22-04	WHEELING CATHOLIC DIOCESE	20
	S19	09-20-17	MARTIN L KLUG	49.78
	S20	09-20-07	SONNY M & LINDA L TAGG	72.828
	S21	09-22-3.2	MARK H MILLER	75
	S22	09-20-9	JOHN G JR & MARILYN S WEIGAND	48.131
	S23	09-20-9.4	HELEN B SHUTLER - LIFE	.78
	S24	09-20-10	JAMES MILLER ET UX	.50
	S25	09-20-9.3	JAMES MILLER ET UX	.80
	S26	09-20-9.5	JAMES MILLER ET UX	.666
	S27	09-20-9.6	JAMES MILLER ET UX	2.919
	S28	09-20-7.1	DAVID PAUL FROHNAPFEL	4.930
	S29	09-20-7.2	MICKEY R DULANEY JR	2.242
	S30	09-18-15	KEITH & KRISTY FERRELL REVOCABLE LIVING TRUST	29.5
	S31	09-18-15.1	NICHOLAS FROHNAPFEL ET UX	1.50
	S32	09-18-16.1	NICHOLAS C FROHNAPFEL ET UX	1.50
	S33	09-18-16.3	JOHN F WAYMAN EST	1.818
	S34	09-18-16.2	JOHN F WAYMAN EST	2.17
	S35	09-18-18.1	JOHN F WAYMAN EST	1.1
	S36	09-18-16	ROBERT F VILLERS	62.893
	S37	09-18-16.4	ROBERT F & APRIL L VILLERS	1.50
	S38	09-18-17.1	VINCENT JOHN WAYMAN	1.010
	S39	09-18-17	VINCENT J WAYMAN ET UX	68.99
	S40	09-18-06	LOUIS FOX	141.75
	S41	09-18-5.1	LOUIS FOX	1.583
	S42	09-18-05	BERTHA L KLUG	122.437
	S43	09-18-5.2	LOUIS FOX	0.933
	S44	09-16-20	LOUIS T FOX	83.174
	S45	09-16-11	JAMES G RICHMOND	67.88
	S46	09-16-07	BERTHA L KLUG	26.105
	S47	09-16-06	ROBERT M & NANCY R McCARDLE	31
	S48	09-16-05	ROBERT M & NANCY R McCARDLE	133
	S49	09-16-02	ROBERT M & NANCY R McCARDLE	53.40
	S50	05-17-05	ALPINE FARM LLC	76.96
	S51	09-16-01	ROBERT M & NANCY R McCARDLE	46.80
	S52	05-16-13	DAVID ALAN RUBCICH ET AL	33.31
	S53	05-17-04	ALPINE FARM LLC	212
	S54	05-17-07	ALPINE FARM LLC	10.8
	S55	05-24-3.3	CHARLES E BERTRAND & DEBRA K BERTRANO	120.43
	S56	09-22-1.1	CNG TRANSMISSION CO	1.43
	S57	05-25-3.2	CONSOL ENERGY HOLDINGS LLC XVI	1.43
	S58	09-22-01	LOUIS T FOX	124.57
	S59	09-22-02	MARK H J MILLER ETAL	124.80
	S60	09-22-03	MARK HILARY MILLER	63.73
	S61	09-22-3.3	MARY C WRIGHT	.617
	S62	09-22-3.1	MARGARET ANN MYSLIWIEC - LIFE	1.1
	S63	09-20-22.6	MARY MARGARET STINE	0.1185
	S64	09-22-5.1	HILARY G MILLER EST	10.62
	S65	09-20-22.7	JOAN L KLUG	1.06
	S66	09-20-22.8	JOAN LOUISE KLUG	.80
	S67	09-20-22	JOAN L KLUG	70.2398
	S68	09-20-22.4	JOAN L KLUG	0.165
	S69	09-20-22.5	JOAN L KLUG	.3767
	S70	09-20-22.3	GRANDVIEW-DOOLIN PSD	0.23
	S71	09-20-22.1	MARY MARGARET STINE	
	S72	09-20-21	MARY MARGARET STINE	3.25

08/26/2022



P.S. 708 *David L Jackson*



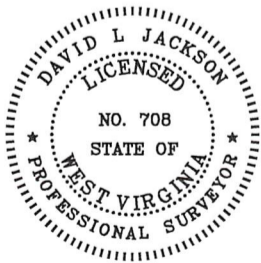
TUG HILL
OPERATING

OPERATOR'S
WELL #: PENDLETON S-13HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API #: 047-051-02458

WELL PLAT
PAGE 3 OF 4
DATE: 08/03/2022

PENDLETON LEASE
WELL S-13HU
186.1712± ACRES

LEASE ID	TMP	TAG	GRANTOR, LESSOR, ETC.	DEED BOOK/PAGE	
10*14114	5-17-6	A	ELI & FANNIE MAE WENGERD	671	323
10*14024	5-24-2	B	ROY FRIEND & DARLENE J YOHO, ET AL	665	508
10*28262	9-18-1	C	JAMES W MESSEY ET AL	67	487
10*39661	9-20-2	D	SHELLIE J & MICHAEL PEKULA	1126	542



P.S. 708 *David L Jackson*

08/26/2022



TUG HILL
OPERATING

OPERATOR'S
 WELL #: PENDLETON S-13HU
 DISTRICT: Franklin
 COUNTY: Marshall
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WELL PLAT
 PAGE 4 OF 4
 DATE: 08/03/2022