

ARMSTRONG LEASE WELL 1S-10HU 621.5151 ± ACRES

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

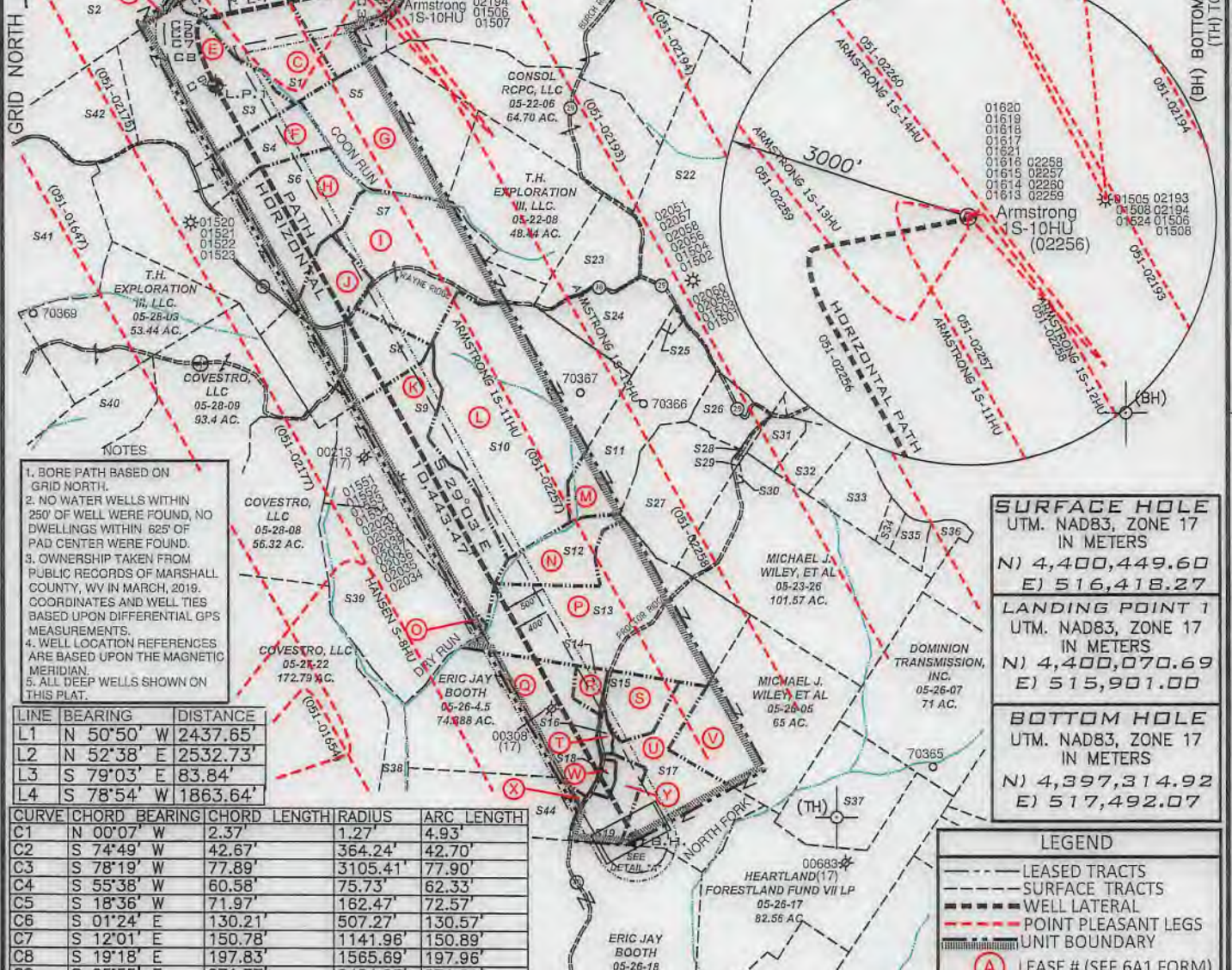
DETAIL (01620) Armstrong 9H
SKETCH "A" (01619) Armstrong 8H
SCALE 1"=200'
 (01617) Armstrong 6H
 (01621) Armstrong 5H
 (01616) Armstrong 4H
 (01615) Armstrong 3H
 (01614) Armstrong 2H
 (01613) Armstrong 1H

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

REFERENCES SCALE 1"=400'
 12" BLACK LOCUST
 N 07°50' E
 352.5'

ARMSTRONG 1S-10HU
 24" POPLAR
 62°58' W
 380.3'

--- 400' BORE PATH OFFSET
 - - - 500' WELL BORE OFFSET



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

LINE	BEARING	DISTANCE
L1	N 50°50' W	2437.65'
L2	N 52°38' E	2532.73'
L3	S 79°03' E	83.84'
L4	S 78°54' W	1863.64'

CURVE	CHORD	BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	N 00°07' W	2.37'	1.27'	4.93'	
C2	S 74°49' W	42.67'	364.24'	42.70'	
C3	S 78°19' W	77.89'	3105.41'	77.90'	
C4	S 55°38' W	60.58'	75.73'	62.33'	
C5	S 18°36' W	71.97'	162.47'	72.57'	
C6	S 01°24' E	130.21'	507.27'	130.57'	
C7	S 12°01' E	150.78'	1141.96'	150.89'	
C8	S 19°18' E	197.83'	1565.89'	197.96'	
C9	S 25°55' E	271.77'	2424.95'	271.91'	

SURFACE HOLE
 UTM. NAD83, ZONE 17
 IN METERS
 N) 4,400,449.60
 E) 516,418.27

LANDING POINT 1
 UTM. NAD83, ZONE 17
 IN METERS
 N) 4,400,070.69
 E) 515,901.00

BOTTOM HOLE
 UTM. NAD83, ZONE 17
 IN METERS
 N) 4,397,314.92
 E) 517,492.07

LEGEND

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

FILE NUMBER _____
 DRAWING NUMBER: ARMSTRONG 1S-10HU REV 1
 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

P.S. *David L Jackson*
 708



JACKSON SURVEYING INC.
 P.O. Box 1460
 Clarksburg, WV 26302
 304-823-5851

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 ___
 DATE: SEPTEMBER 24, 2019
 REVISED: NOVEMBER 05, 2019
 OPERATORS WELL NO. Armstrong 1S-10HU
 API WELL NO. 47-051-02256
 STATE COUNTY PERMIT

LOCATION ELEVATION 1279.12' WATERSHED (HUC 10) FRENCH CREEK - OHIO RIVER
 DISTRICT FRANKLIN COUNTY MARSHALL
 QUADRANGLE POWHATAN POINT 7.5' LEASE NUMBER SEE WW-6A1 Form

SURFACE OWNER CONSOL RCPC, LLC ACREAGE 159.05
 OIL & GAS ROYALTY OWNER CONSOL RCPC, LLC LEASE ACREAGE 159.05
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___
 PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE (SPECIFY) _____

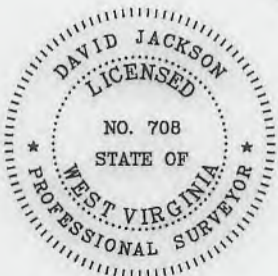
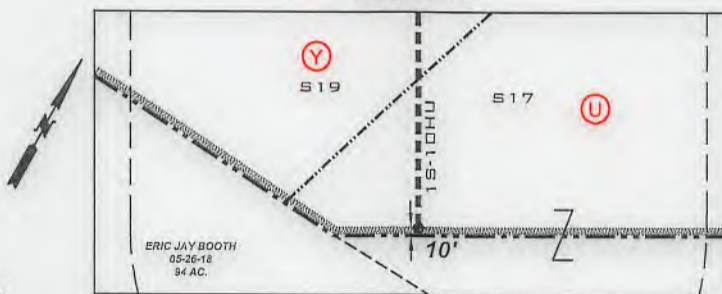
TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,354' TMD: 22,321'
 WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
CT CORPORATION SYSTEM
 ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 CHARLESTON, WV 25313

COUNTY NAME
 PERMIT

**ARMSTRONG LEASE
WELL 1S-10HU
621.5151 ± ACRES**

Number	TAX MAP-PARCEL	SURFACE OWNER	ACRES
S1 C	05-22-17	Consol RCPC, LLC.	37.5
S2 D	05-22-18	Edward R. Yoho, Jr.	77.13
S3 E	05-22-16	Edward R. Yoho, Jr.	57.0
S4 F	05-22-12	T.H. Exploration III, LLC.	61.49
S5 G	05-22-10	T.H. Exploration III, LLC.	58.40
S6 H	05-22-11	T.H. Exploration III, LLC.	55.65
S7 I	05-22-9	T.H. Exploration III, LLC.	63.44
S8 J	05-28-4	T.H. Exploration III, LLC.	48.44
S9 K	05-28-6	Ula F. Nelson	70.0
S10 L	05-28-5	T.H. Exploration III, LLC.	105.9
S11 M	05-23-28	Gregg D. Minor	39.43
S12 N	05-26-1	Edwin Booth Anderson & Mark W. Booth	12.94
S13 P	05-26-2	Edwin Booth Anderson & Mark W. Booth	67.5
S14 R	05-26-4	James R. & Melody A. Anderson	3.887
S15 S	05-26-4.6	Otis F. Rush Jr.	12.268
S16 T	05-26-4.2	Otis S. Rush, et ux	1.58
S17 U	05-26-4.4	Otis F. & Glenda M. Rush	39.436
S18 W	05-26-4.3	Crystal & Randolph F. Matask	2.253
S19 Y	05-26-4.1	Otis S. Rush, et ux	12.188
S20	05-19-18.2	Paul V. & Carol Neely	32.672
S21	05-19-18	Mark E. Yoho, et ux	55.948
S22	05-23-1	Patricia Accettolo, et al	146.66
S23	05-22-7.1	XcL Exploration II, LLC & Atinum Marcellus I, LLC	20.68
S24	05-22-7	Patricia Accettolo, et al	25.02
S25	05-23-28.1	Troy W. & Erin M. Thomas	1.0
S26	05-23-28.2	Tammac Holdings Corporation	10.8
S27	05-23-27	Michael J. Wiley, et al	33.140
S28	05-23-23	Michael J. Wiley, et al	1.0
S29	05-23-24	Michael J. Wiley, et al	0.25
S30	05-23-25	Arthur A. Wiley	0.43
S31	05-23-22	Daniel D. Rhyand & Laurel R. Greene	6.25
S32	05-23-17.1	Curtis E. Hall, et ux	10.051
S33	05-23-17.2	Dick Rowan, Jr. & Carol J. Rowan	14.920
S34	05-23-17.4	Tammy D. Meadows	2.605
S35	05-23-17	Tammy & Thomas E. Brown	4.62
S36	05-23-17.3	William & Katherine Flewelling	5.018
S37	05-26-6	Heartwood Forestland Fund VII LP	36.17
S38	05-27-23	Robert. F. Rothlisberger	35.77
S39 O	05-28-7	Carl L. Corfield, Sr. & Lana R. Coffield	64.0
S40	05-28-10	Carol Martin	100.0
S41	05-22-13	John M. Moore, Theresa F. Moore, & Andrea S. Moore	40.57
S42	05-22-15	Edward R. Yoho, Jr.	25.5
S43	05-19-21	Sammy E. Whitlatch, et al	116.45
S44 X	05-26-19	Eric Jay Booth & Karroll S. Booth	50.0

DETAIL "A"



4705102256 mod

P.S. 708 *David L Jackson*



TUG HILL
OPERATING

OPERATOR'S
WELL #: Armstrong 1S-10HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API: 47-051-02256

WELL PLAT
PAGE 2 OF 3
DATE: 09/24/2019
REVISED: 11/05/2019