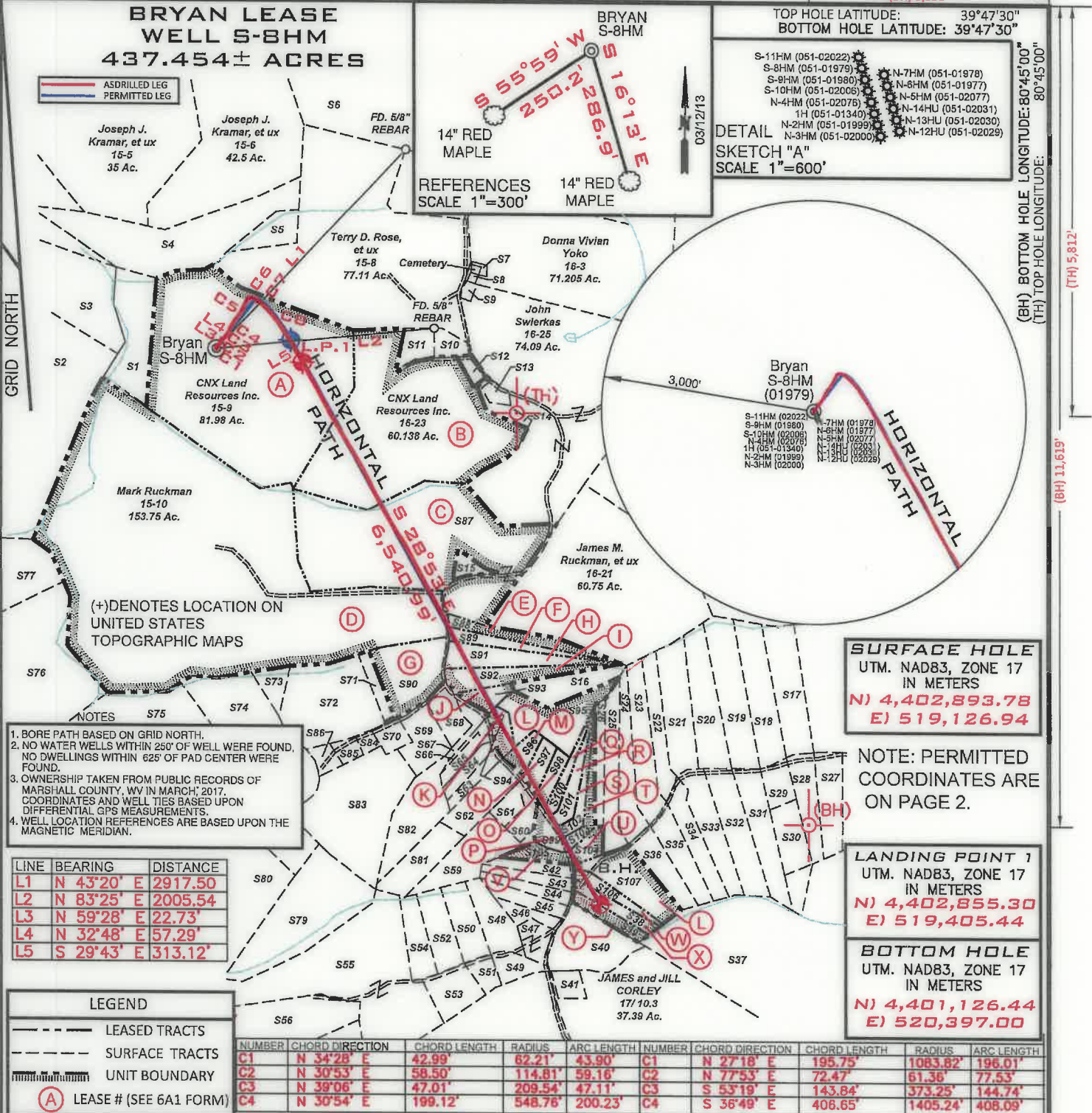


**BRYAN LEASE
WELL S-8HM
437.454± ACRES**

ASDRILLED LEG
PERMITTED LEG



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

S-11HM (051-02022)
S-8HM (051-01979)
S-8HM (051-01980)
S-10HM (051-02076)
N-4HM (051-02076)
N-2HM (051-01999)
N-3HM (051-02000)
N-7HM (051-01978)
N-8HM (051-01977)
N-5HM (051-02077)
N-14HU (051-02031)
N-13HU (051-02030)
N-12HU (051-02025)

DETAIL SKETCH "A"
SCALE 1"=600'

(BH) BOTTOM HOLE LONGITUDE: 80°45'00"
(TH) TOP HOLE LONGITUDE: 80°45'00"

(BH) 11.619'
(TH) 5.812'

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

- 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, 2017. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
 - WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.

LINE	BEARING	DISTANCE
L1	N 43°20' E	2917.50
L2	N 83°25' E	2005.54
L3	N 59°28' E	22.73'
L4	N 32°48' E	57.29'
L5	S 29°43' E	313.12'

LEGEND

- LEASED TRACTS
- SURFACE TRACTS
- UNIT BOUNDARY
- (A) LEASE # (SEE 6A1 FORM)

NUMBER	CHORD DIRECTION	CHORD LENGTH	RADIUS	ARC LENGTH	NUMBER	CHORD DIRECTION	CHORD LENGTH	RADIUS	ARC LENGTH
C1	N 34°28' E	42.99'	62.21'	43.90'	C1	N 27°18' E	195.75'	1083.82'	196.01'
C2	N 30°53' E	58.50'	114.81'	59.16'	C2	N 77°53' E	72.47'	61.36'	77.53'
C3	N 39°06' E	47.01'	209.54'	47.11'	C3	S 53°19' E	143.84'	373.25'	144.74'
C4	N 30°54' E	199.12'	548.76'	200.23'	C4	S 36°49' E	408.65'	1405.24'	408.09'

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,402,893.78
E) 519,126.94

NOTE: PERMITTED COORDINATES ARE ON PAGE 2.

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,402,855.30
E) 519,405.44

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,401,126.44
E) 520,397.00

FILE NUMBER _____

DRAWING NUMBER BRYAN_WP_S-8HM

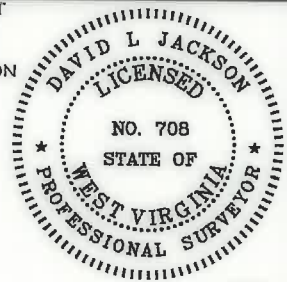
SCALE 1" = 1500'

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 1450
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 ___ SHALLOW X

LOCATION ELEVATION 1191.7' WATERSHED (HUC 10) Fish Creek
DISTRICT Franklin COUNTY Marshall
QUADRANGLE Powhatan Point 7.5' LEASE NUMBER _____ SEE WW-6A1 Form

SURFACE OWNER CNX LAND RESOURCES, INC. ACREAGE 81.98
OIL & GAS ROYALTY OWNER MICHAEL R. BRYAN - SEE WW 6A1 LEASE ACREAGE 81.98
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___
PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE (SPECIFY) ASDRILLED

TARGET FORMATION Marcellus ESTIMATED DEPTH TVD: 6,554' TMD: 13,700'

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

COUNTY NAME
PERMIT

**BRYAN LEASE
WELL S-8HM
437.454± ACRES**

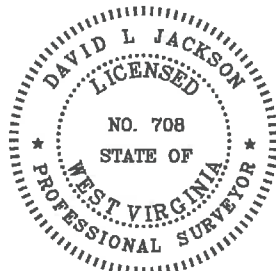
SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,402,893.64
E) 519,127.03

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,402,926.83
E) 519,366.67

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,401,125.30
E) 520,395.83

GRID NORTH

Number	TAX MAP -PARCEL	ADJOINER OWNER	ACRES	Number	TAX MAP -PARCEL	ADJOINER OWNER	ACRES
S1	15-13	CNX Land Resources Inc.	11.0	S55	18-13	Southern Country Farms Inc.	24.724
S2	15-12	John David Petrock Et Ux	150.23	S56	18-59	Southern Country Farms Inc.	15.79
S3	15-14	John David Petrock Et Ux	25.0	S57	18-30	Jon Schmidt Et Al	5.46
S4	15-6.1	Joseph J. Kramer Et Ux	39.40	S58	18-13.10	Carl Berg	10.88
S5	15-7	Terry D. Rose Et Ux	4.5	S59	18-13.1	Betty Tagg Est.	9.248
S6	10-15	Paul Andrew & Debra A. Rine	120.805	S60	18-41	Cory A. Holt	2.308
S7	16-3.1	Dennis Jackson Et Ux	0.27	S61	18-40	Cory A. Holt	2.237
S8	16-2	Fredonia Christian Church	0.19	S62	18-14	Michael S. Fincham & Kezia M. Winters	6.386
S9	16-1	Fredonia Christian Church	0.50	S63	18-45	Michael S. Fincham & Kezia M. Winters	2.07
S10	16-23.1	Ray E. Minor Et Ux	2.0	S64	18-46	Dale W. & Patricia Gardner	2.030
S11	16-23.4	Michael R. & Brenda K. Bryan	3.0	S65	18-47	Robert Pelley II & Susan Briggs	2.010
S12	16-23.3	Greg & Christina Riddle	1.0	S66	18-13.5	Wesley Bryan	1.023
S13	16-24	Alan M. Beyser Et Ux	1.083	S67	18-36	Ruth Mulligan Est.	2.030
S14	16-23.2	Alan M. Beyser Et Ux	1.726	S68	18-15.2	Edward Burge	4.171
S15	16-22.1	Heather A. Burgy	1.465	S69	18-15.1	Jason Blair	5.948
S16	18-13.2	Steven Berisford	6.023	S70	18-12	William Wayne Et Ux	2.27
S17	16-15.1	Glen A. Gunto	10.17	S71	18-11.2	Edward Lee Burge Jr.	2.0
S18	17-15	Glen A. Gunto	10.22	S72	18-11.1	Edward Lee Burge Jr.	18.0
S19	18-13	Southern Country Farms Inc.	11.415	S73	18-15	Edward Lee Burge Jr.	2.495
S20	18-13.9	Roy & Renee Butler	9.603	S74	18-15.4	Edward Lee Burge Jr.	22.34
S21	18-13.4	Renee D. Streight	9.938	S75	18-15.3	Charles Yeater	26.44
S22	18-13.12	Charles A. & Mary Nice	5.969	S76	18-4	Olan & Patricia Rutan	65.89
S23	18-13	Southern Country Farms Inc.	8.037	S77	15-11	Diana Henry Hayes & Carol Henry	65.59
S24	18-60	Christopher M. Previtara	6.297	S78	18-6	Charles Yeater	26.0
S25	18-53.1	Christopher M. Previtara	6.283	S79	18-16	Charles Yeater	17.768
S26	18-13.11	Linda L. Moore	3.156	S80	18-7	Charles Yeater	24.22
S27	17-1.6	Lola M. Slaughter	6.347	S81	18-17	Michael S. Fincham & Kezia M. Winters	6.555
S28	17-1.5	Donnie R. & Lola M. Slaughter	5.607	S82	18-13.3	Robert Closterman	9.813
S29	17-1.2	Donnie R. & Lola M. Slaughter	5.073	S83	18-15.5	Darrell & Teresa Boley	23.547
S30	17-1.3	Jody & Michelle Anderson	5.0	S84	18-10	David & Nancy Anderson	0.907
S31	17-1.1	Donnie R. & Lola M. Slaughter	8.078	S85	18-10.2	David Anderson Et Ux	1.377
S32	17-1.4	Donnie R. & Lola M. Slaughter	8.844	S86	18-10.1	David Anderson Et Ux	1.65
S33	17-14	Southern Country Farms Inc.	7.314	S87	16-22	James M. Ruckman et ux	54.605
S34	17-13	Roy E. & Renee Butler	5.433	S88	18-56	William O' Hara	3.965
S35	17-1.7	Roy E. & Renee Butler	5.22	S89	18-55	William O' Hara	3.202
S36	17-1	Southern Country Farms Inc.	5.030	S90	18-11	Benjamin Robinson	12.883
S37	17-2	Phyllis Flouhouse Trust & Belle Yoho	104.08	S91	18-28	Dotson Harrison	6.36
S38	18-35	Mary Anderson	2.635	S92	18-28.1	Carol Helmick	5.696
S39	18-42	Roger Howard Hall Jr.	2.383	S93	18-50	Steven Berisford	2.170
S40	18-19	Roger White Jr.	10.0	S94	18-49	Tanner Butler	2.023
S41	17-10.4	Ron Murrin Et Al	2.01	S95	18-13	Southern Country Farms, Inc.	11.054
S42	18-43	Roy Butler	2.532	S96	18-37	John W. Wetzel	2.064
S43	18-51	Roger Hall	2.505	S97	18-38	Marlon R. Conner	2.231
S44	18-52	Roger Hall	2.536	S98	18-39	Marlon R. Conner	2.001
S45	18-61	Roger White Jr.	2.984	S99	18-25	Charles & Maria Rayl	2.133
S46	18-57	Marvin D. Roberts	2.228	S100	18-27.1	Marlon R. Conner	2.003
S47	18-18	Linda Coen	3.0	S101	18-27.2	Linda L. Moore	3.009
S48	18-13.7	Victor W. Woods Jr. & Jessica L. Woods	5.255	S102	18-27	Linda L. Moore	2.447
S49	18-48	Marvin Dean Roberts Et Al	2.920	S103	18-26	Linda L. Moore	2.624
S50	18-13.6	Glenn Eugene Whisler Et Ux	5.384	S104	18-53	Christopher M. Previtara	2.00
S51	18-13.14	Glenn & Sandra Whisler	2.116	S105	18-44	Renee Streight	2.532
S52	18-13.13	Glenn E. & Sandra K. Whisler	5.59	S106	18-58	Kevin W. Roberts	2.435
S53	18-33	Glenn & Sandra Whisler	5.343	S107	18-13	Southern Country Farms, Inc.	8.743
S54	18-34	Jodi A. & Gary A. Hall	5.002				



P.S. 708 *David L Jackson*



**TUG HILL
OPERATING**

OPERATOR'S
WELL #: Bryan S-8HM
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API #: 47-051-01979

WELL PLAT
PAGE 2 OF 2
DATE: 08/25/2020