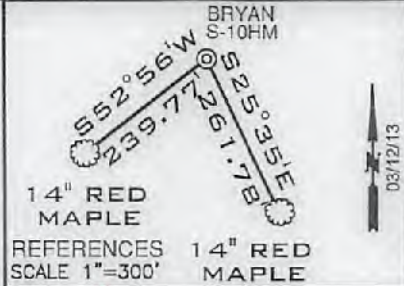


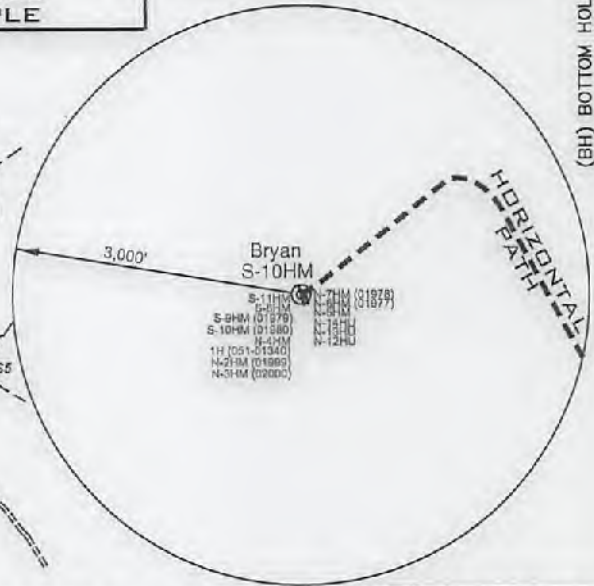
BRYAN LEASE WELL S-10HM
471.0556± ACRES



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

- S-11HM ○
- S-8HM (051-01979) ○
- S-8HM (051-01980) ○
- S-10HM ○
- N-4HM ○
- 1H (051-01340) ○
- N-2HM (051-01999) ○
- N-3HM (051-02000) ○
- N-7HM (051-01978) ○
- N-5HM (051-01977) ○
- N-14HM ○
- N-13HU ○
- N-12HU ○

DETAIL SKETCH "A"
SCALE 1"=600'



SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,403,886.33
E) 519,129.18

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS
(BH)

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,403,156.96
E) 519,765.26

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,401,203.37
E) 520,877.34

- 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 42°55' E	2930.68'
L2	N 82°42' E	2001.63'
L3	N 60°57' E	102.83'
L4	N 51°13' E	1164.63'

LEGEND

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

NUMBER	CHORD DIRECTION	RADIUS	ARC LENGTH	CHORD LENGTH
C1	N 54°33' E	1509.89'	143.24'	143.19'
C2	N 51°46' E	21265.16'	479.20'	479.19'
C3	N 86°45' E	224.05'	121.14'	119.67'
C4	S 84°04' E	303.84'	138.35'	137.16'
C5	S 59°38' E	540.87'	207.77'	206.50'

FILE NUMBER _____

DRAWING NUMBER BRYAN_WP_S-10HM

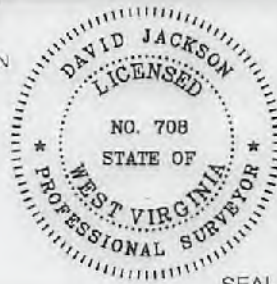
SCALE 1" = 1500'

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

P.S. 706 *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

DATE: JANUARY 8, 2017

OPERATORS WELL NO. BRYAN S-10HM

API WELL NO. 47-051-02006 H6A

STATE COUNTY PERMIT

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

LOCATION ELEVATION 1191.0' WATERSHED (HUC 10) Fish Creek

DISTRICT Franklin COUNTY Marshall

QUADRANGLE Powhatan Point 7.5' LEASE NUMBER _____ SEE WW-8A1 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 X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___
PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE (SPECIFY) _____

TARGET FORMATION Marcellus ESTIMATED DEPTH TVD: 6,596' TMD: 14,898'

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

08/10/2018

COPIES NAME PERMIT

**BRYAN LEASE
WELL S-10HM
471.0556± ACRES**

GRID NORTH

Number	TAX MAP - PARCEL	ADJOINER OWNER	ACRES	S52	18-49		
S1	15-13	CNX Land Resources Inc.	11.0	S53	18-50	Tanner Butler	2.023
S2	15-6.1	Joseph J. Kramer Et Ux	39.40	S54	18-45	Steven Berisford	2.170
S3	15-7	Terry D. Rose Et Ux	4.5	S55	18-46	Michael Fincham & Kezia Winters	2.07
S4	16-4	John Swierkos	0.96	S56	18-47	Dale W. & Patricia Gardner	2.030
S5	16-6	John Swierkos	134.05	S57	18-13.5	Robert Pelley II & Susan Briggs	2.010
S6	16-3.2	Jimmy Ostrander Sr. Et Ux	1.435	S58	18-36	Wesley Bryan	1.023
S7	16-3.1	Dennis Jackson Et Ux	0.27	S59	18-15.2	Ruth Mulligan Est.	2.030
S8	16-2	Fredonia Christian Church	0.19	S60	18-11	Edward Burge	4.171
S9	16-1	Fredonia Christian Church	0.50	S61	18-11.2	Benjamin Robinson	1.023
S10	16-23.1	Ray E. Minor Et Ux	2.0	S62	18-11.1	Edward Lee Burge Jr.	2.0
S11	16-23.4	Michael R. & Brenda K. Bryan	3.0	S63	17-02	Edward Lee Burge Jr.	18.0
S12	16-23.3	Greg & Christina Riddle	1.0	S64	18-15.1	Phyllis Flourhouse Trust & Belle Yoho	104.08
S13	16-24	Alan M. Beyser Et Ux	1.083	S65	18-12	Jason Blair	5.948
S14	16-23.2	Alan M. Beyser Et Ux	1.726	S66	18-10	William Wayne Et Ux	2.27
S15	17-16	Glen A. Gunto	9.702	S67	18-10.2	David & Nancy Anderson	0.907
S16	16-15.1	Glen A. Gunto	10.17	S68	18-10.1	David Anderson Et Ux	1.377
S17	17-15	Glen A. Gunto	10.22	S69	18-15.5	David Anderson Et Ux	1.65
S18	18-13	Southern Country Farms Inc.	11.415	S70	18-13.3	Darrell & Teresa Boley	23.547
S19	18-13.9	Roy & Renee Butler	9.603	S71	18-17	Robert Closterman	9.813
S20	18-13.4	Renee D. Straight	9.938	S72	18-13.1	Michael S. Fincham & Kezia M. Winters	6.555
S21	18-13.12	Charles A. & Mary Nice	5.969	S73	18-13.7	Betty Tagg Est.	9.248
S22	18-13	Southern Country Farms Inc.	8.037	S74	18-13.6	Victor W. Woods Jr. & Jessica L. Woods	5.255
S23	17-3.1	Wilbur L. Riddle Et Ux	10.148	S75	18-13.13	Glenn Eugene Whisler Et Ux	5.384
S24	17-1.6	Lola M. Slaughter	5.347	S76	18-34	Glenn E. & Sandra K. Whisler	5.59
S25	17-1.5	Donnie R. & Lola M. Slaughter	5.607	S77	18-13	Jodi A. & Gary A. Hall	5.002
S26	17-1.3	Jody & Michelle Anderson	5.0	S78	18-57	Southern Country Farms Inc.	24.724
S27	17-1.2	Donnie R. & Lola M. Slaughter	5.073	S79	18-18	Mervin D. Roberts	2.228
S28	17-1.1	Donnie R. & Lola M. Slaughter	8.078	S80	17-10.4	Linda Coen	3.0
S29	17-1.4	Donnie R. & Lola M. Slaughter	8.844	S81	18-48	Ron Murrin Et Al	2.01
S30	17-14	Southern Country Farms Inc.	7.314	S82	18-13.14	Marvin Dean Roberts Et Al	2.920
S31	17-13	Roy E. & Renee Butler	5.433	S83	18-16	Glenn & Sandra Whisler	2.116
S32	17-1.7	Roy E. & Renee Butler	5.22	S84	15-09	Charles Yeater	17.768
S33	17-1	Southern Country Farms Inc.	5.030	S85	15-08	CNX Land Resources Inc.	81.98
S34	18-13	Southern Country Farms Inc.	8.743	S86	18-23	Terry D. Rose et ux	77.11
S35	18-58	Kevin W. Roberts	2.435	S87	16-22	CNX Land Resources Inc.	60.138
S36	18-35	Mary Anderson	2.635	S88	16-22.1	James M. Ruckman et ux	54.605
S37	18-42	Roger Howard Hall	2.383	S89	16-21	Heather A. Burgy	1.465
S38	18-19	Roger Howard Hall Jr.	10.0	S90	18-56	James M. Ruckman et ux	60.75
S39	18-53	Christopher M. Pravitara	2.0	S91	18-55	William O'Hara	3.965
S40	18-61	Roger White Jr.	2.984	S92	18-28	William O'Hara	3.202
S41	18-52	Roger Hall	2.536	S93	18-28.1	Dotson Harrison	6.36
S42	18-51	Roger Hall	2.505	S94	18-13.2	Carol Helmick	5.696
S43	18-43	Roy E. & Renee Butler	2.532	S95	18-13	Steven Berisford	6.023
S44	18-44	Renee Straight Butler	2.133	S96	18-27.1	Southern Country Farms, Inc.	11.054
S45	18-25	Charles & Maria Rayl	2.133	S97	18-27.2	Marlon R. Conner	2.003
S46	18-41	Cory A. Holt	2.308	S98	18-27	Linda L. Moore	3.009
S47	18-40	Cory A. Holt	2.237	S99	18-26	Linda L. Moore	2.447
S48	18-14	Michael Fincham & Kezia Winters	6.386	S100	18-13.11	Linda L. Moore	2.624
S49	18-39	Marlon R. Conner	2.001	S101	18-53.1	Linda L. Moore	3.156
S50	18-38	Marlon R. Conner	2.231	S102	18-60	Christopher M. Pravitara	6.283
S51	18-37	John W. Wetzel	2.064			Christopher M. Pravitara	6.297



P.S. 708

David L Jackson

08/10/2018
51-02006H6A



**TUG HILL
OPERATING**

OPERATOR'S
WELL #: Bryan S-10HM
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV

WELL PLAT
PAGE 2 OF 2
DATE: 01/08/2018