

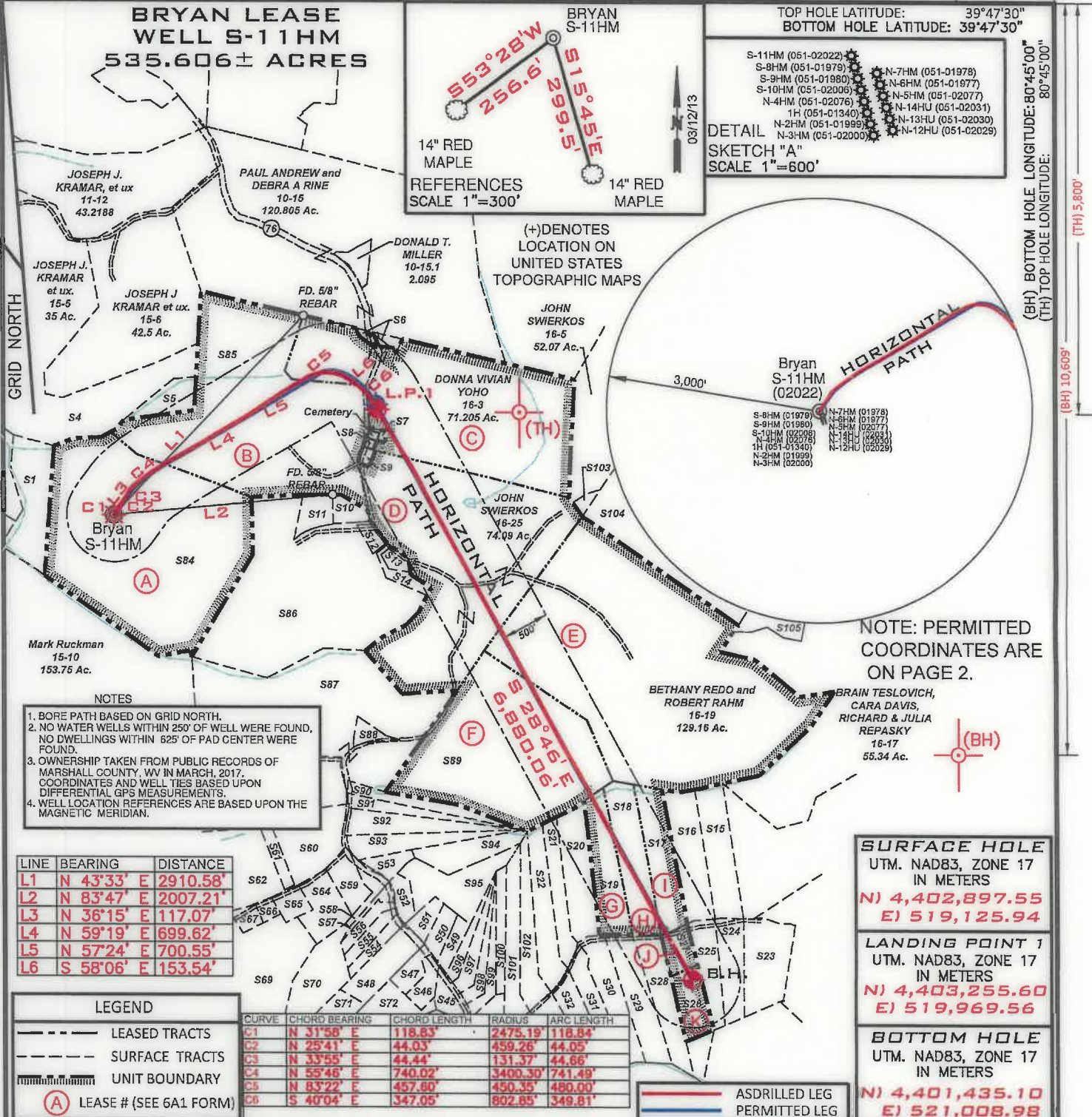
**BRYAN LEASE  
WELL S-11HM  
535.606± ACRES**

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

- S-11HM (051-02022)
- S-8HM (051-01979)
- S-9HM (051-01980)
- S-10HM (051-02006)
- N-4HM (051-02076)
- 1H (051-01340)
- N-2HM (051-01999)
- N-3HM (051-02000)
- N-7HM (051-01978)
- N-6HM (051-01977)
- N-5HM (051-02077)
- N-14HU (051-02031)
- N-13HU (051-02030)
- N-12HU (051-02029)

DETAIL SKETCH "A"  
SCALE 1"=600'

14" RED MAPLE  
REFERENCES  
SCALE 1"=300'



- 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°33' E | 2910.58' |
| L2   | N 83°47' E | 2007.21' |
| L3   | N 36°15' E | 117.07'  |
| L4   | N 59°19' E | 699.62'  |
| L5   | N 57°24' E | 700.55'  |
| L6   | S 58°06' E | 153.54'  |

**LEGEND**

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

| CURVE | CHORD BEARING | CHORD LENGTH | RADIUS   | ARC LENGTH |
|-------|---------------|--------------|----------|------------|
| C1    | N 31°50' E    | 118.83'      | 2475.19' | 118.84'    |
| C2    | N 25°41' E    | 44.03'       | 459.26'  | 44.05'     |
| C3    | N 33°55' E    | 44.44'       | 131.37'  | 44.66'     |
| C4    | N 55°46' E    | 740.02'      | 3400.30' | 741.49'    |
| C5    | N 83°22' E    | 457.80'      | 450.35'  | 480.00'    |
| C6    | S 40°04' E    | 347.05'      | 802.85'  | 349.81'    |

**SURFACE HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,402,897.55  
E) 519,125.94

**LANDING POINT 1**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,403,255.60  
E) 519,969.56

**BOTTOM HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,401,435.10  
E) 521,008.98

FILE NUMBER \_\_\_\_\_

DRAWING NUMBER BRYAN\_WP\_S-11HM

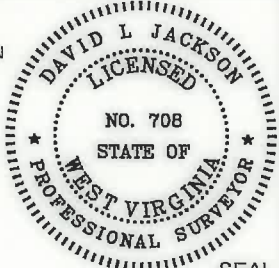
SCALE 1" = 1500'

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 1480  
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 1191.6' WATERSHED (HUC 10) Fish Creek

DISTRICT Franklin COUNTY Marshall

QUADRANGLE Powhatan Point 7.5' LEASE NUMBER SEE WW-6A1 Form

DATE: AUGUST 25, 2020

OPERATORS WELL NO. BRYAN S-11HM

API WELL NO. 47-051-02022

STATE WV COUNTY MARSHALL PERMIT       

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: 6,525' TMD: 14,750'

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

**BRYAN LEASE  
WELL S-11HM  
535.606± ACRES**

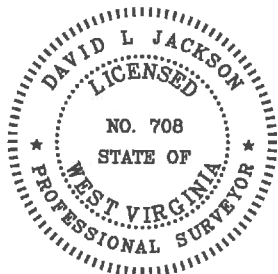
GRID NORTH

**SURFACE HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
**N) 4,402,897.30**  
**E) 519,125.96**

**LANDING POINT 1**  
UTM. NAD83, ZONE 17  
IN METERS  
**N) 4,403,271.95**  
**E) 519,964.44**

**BOTTOM HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
**N) 4,401,433.22**  
**E) 521,008.68**

| Number | TAX MAP -PARCEL | ADJOINER OWNER                        | ACRES  |
|--------|-----------------|---------------------------------------|--------|
| S1     | 15-13           | CNX Land Resources Inc.               | 11.0   |
| S4     | 15-6.1          | Joseph J. Kramer Et Ux                | 39.40  |
| S5     | 15-7            | Terry D. Rose Et Ux                   | 4.5    |
| S6     | 16-3.2          | Jimmy Ostrander Sr. Et Ux             | 1.435  |
| S7     | 16-3.1          | Dennis Jackson Et Ux                  | 0.27   |
| S8     | 16-2            | Fredonia Christian Church             | 0.19   |
| S9     | 16-1            | Fredonia Christian Church             | 0.50   |
| S10    | 16-23.1         | Ray E. Minor Et Ux                    | 2.0    |
| S11    | 16-23.4         | Michael R. & Brenda K. Bryan          | 3.0    |
| S12    | 16-23.3         | Greg & Christina Riddle               | 1.0    |
| S13    | 16-24           | Alan M. Beyser Et Ux                  | 1.083  |
| S14    | 16-23.2         | Alan M. Beyser Et Ux                  | 1.726  |
| S15    | 17-16           | Glen A. Gunto                         | 9.702  |
| S16    | 16-15.1         | Glen A. Gunto                         | 10.17  |
| S17    | 17-15           | Glen A. Gunto                         | 10.22  |
| S18    | 18-13           | Southern Country Farms Inc.           | 11.415 |
| S19    | 18-13.9         | Roy & Renee Butler                    | 9.603  |
| S20    | 18-13.4         | Renee D. Streight                     | 9.938  |
| S21    | 18-13.12        | Charles A. & Mary Nice                | 5.969  |
| S22    | 18-13           | Southern Country Farms Inc.           | 8.037  |
| S23    | 17-3.1          | Wilbur L. Riddle Et Ux                | 10.148 |
| S24    | 17-1.6          | Lola M. Slaughter                     | 6.347  |
| S25    | 17-1.5          | Donnie R. & Lola M. Slaughter         | 5.607  |
| S26    | 17-1.3          | Jody & Michelle Anderson              | 5.0    |
| S27    | 17-1.2          | Donnie R. & Lola M. Slaughter         | 5.073  |
| S28    | 17-1.1          | Donnie R. & Lola M. Slaughter         | 8.078  |
| S29    | 17-1.4          | Donnie R. & Lola M. Slaughter         | 8.844  |
| S30    | 17-14           | Southern Country Farms Inc.           | 7.314  |
| S31    | 17-13           | Roy E. & Renee Butler                 | 5.433  |
| S32    | 17-1.7          | Roy E. & Renee Butler                 | 5.22   |
| S45    | 18-25           | Charles & Maria Rayl                  | 2.133  |
| S46    | 18-41           | Cory A. Holt                          | 2.308  |
| S47    | 18-40           | Cory A. Holt                          | 2.237  |
| S48    | 18-14           | Michael Fincham & Kezia Winters       | 6.386  |
| S49    | 18-39           | Marlon R. Conner                      | 2.001  |
| S50    | 18-38           | Marlon R. Conner                      | 2.231  |
| S51    | 18-37           | John W. Weizel                        | 2.064  |
| S52    | 18-49           | Tanner Butler                         | 2.023  |
| S53    | 18-50           | Steven Berisford                      | 2.170  |
| S54    | 18-45           | Michael Fincham & Kezia Winters       | 2.07   |
| S55    | 18-46           | Dale W. & Patricia Gardner            | 2.030  |
| S56    | 18-47           | Robert Pelley II & Susan Briggs       | 2.010  |
| S57    | 18-13.5         | Wesley Bryan                          | 1.023  |
| S58    | 18-36           | Ruth Mulligan Est.                    | 2.030  |
| S59    | 18-15.2         | Edward Burge                          | 4.171  |
| S60    | 18-11           | Benjamin Robinson                     | 12.883 |
| S61    | 18-11.2         | Edward Lee Burge Jr.                  | 2.0    |
| S62    | 18-11.1         | Edward Lee Burge Jr.                  | 18.0   |
| S64    | 18-15.1         | Jason Blair                           | 5.948  |
| S65    | 18-12           | William Wayne Et Ux                   | 2.27   |
| S66    | 18-10           | David & Nancy Anderson                | 0.907  |
| S67    | 18-10.2         | David Anderson Et Ux                  | 1.377  |
| S69    | 18-15.5         | Darrell & Teresa Boley                | 23.547 |
| S70    | 18-13.3         | Robert Closterman                     | 9.813  |
| S71    | 18-17           | Michael S. Fincham & Kezia M. Winters | 6.555  |
| S72    | 18-13.1         | Betty Tagg Est.                       | 9.248  |
| S84    | 15-09           | CNX Land Resources Inc.               | 81.98  |
| S85    | 15-08           | Terry D. Rose et ux                   | 77.11  |
| S86    | 16-23           | CNX Land Resources Inc.               | 60.138 |
| S87    | 16-22           | James M. Ruckman et ux                | 54.605 |
| S88    | 16-22.1         | Heather A. Burgy                      | 1.465  |
| S89    | 16-21           | James M. Ruckman et ux                | 60.75  |
| S90    | 18-56           | William O'Hara                        | 3.965  |
| S91    | 18-55           | William O'Hara                        | 3.202  |
| S92    | 18-28           | Dotson Harrison                       | 6.36   |
| S93    | 18-28.1         | Carol Helmick                         | 5.696  |
| S94    | 18-13.2         | Steven Berisford                      | 6.023  |
| S95    | 18-13           | Southern Country Farms, Inc.          | 11.054 |
| S96    | 18-27.1         | Marlon R. Conner                      | 2.003  |
| S97    | 18-27.2         | Linda L. Moore                        | 3.009  |
| S98    | 18-27           | Linda L. Moore                        | 2.447  |
| S99    | 18-26           | Linda L. Moore                        | 2.624  |
| S100   | 18-13.11        | Linda L. Moore                        | 3.156  |
| S101   | 18-53.1         | Christopher M. Previtera              | 6.283  |
| S102   | 18-60           | Christopher M. Previtera              | 6.297  |
| S103   | 16-4            | John Swierkos                         | 0.96   |
| S104   | 16-6            | John Swierkos                         | 134.05 |
| S105   | 16-18           | John Swierkos                         | 10.0   |



P.S.  
708

*David L Jackson*



**TUG HILL  
OPERATING**

OPERATOR'S  
WELL #: Bryan S-11HM  
DISTRICT: Franklin  
COUNTY: Marshall  
STATE: WV  
API #: 47-051-02022

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