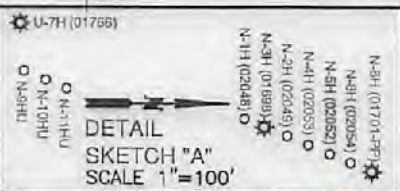
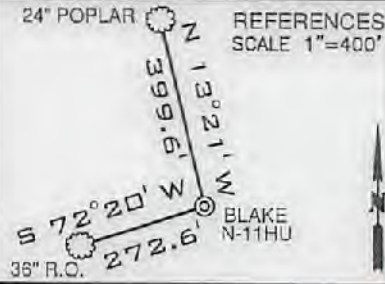
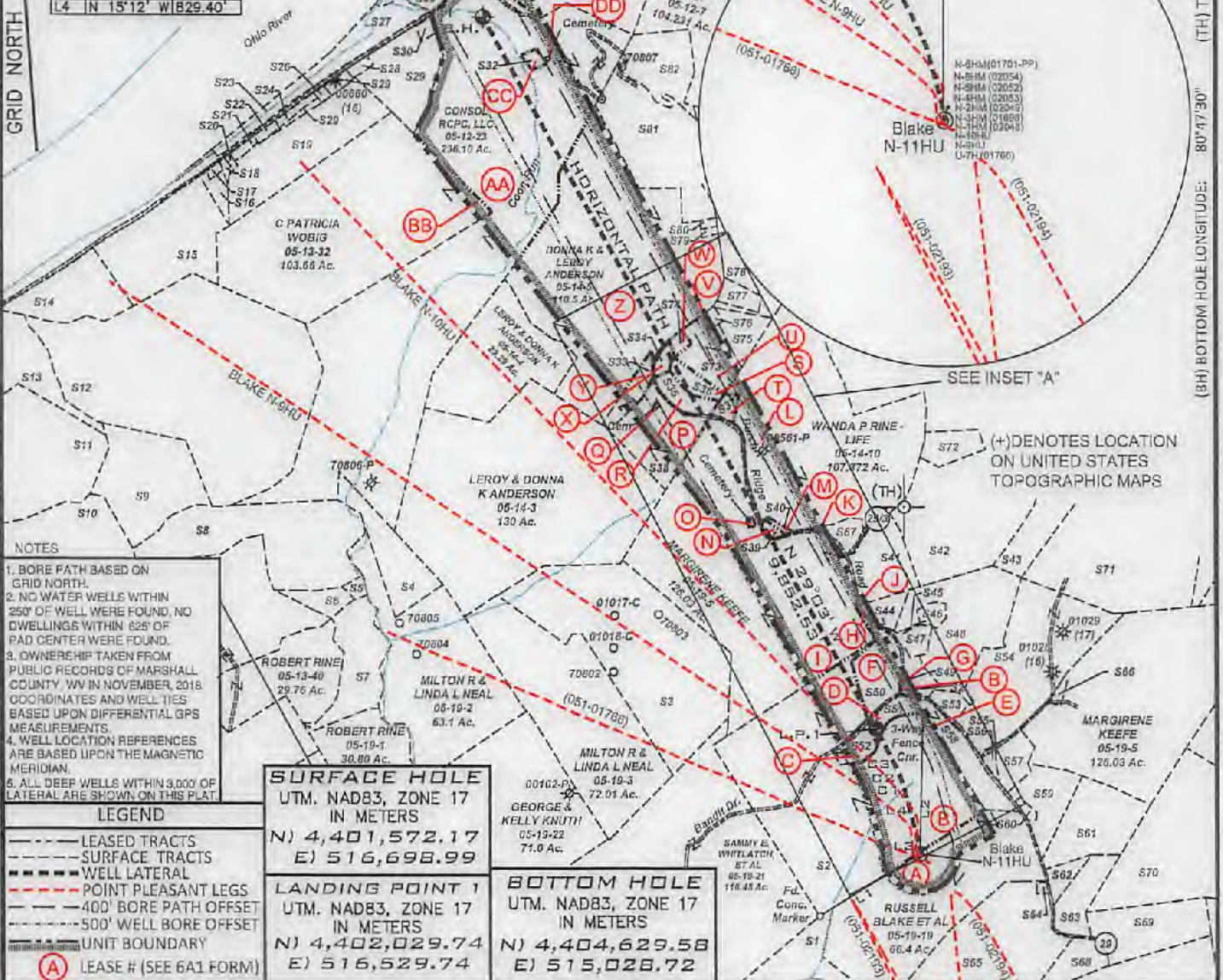


BLAKE LEASE WELL N-11HU 389.2782± ACRES

NUMBER	CHORD DIRECTION	CHORD LENGTH	RADIUS	ARC LENGTH
C1	N 20°11' W	66.40	556.18	69.44
C2	N 24°41' W	150.36	2788.89	156.89
C3	N 27°30' W	407.51	5223.50	407.62



LINE	BEARING	DISTANCE
L1	S 58°08' W	1440.87
L2	N 01°22' E	1709.83
L3	N 00°57' E	75.03
L4	N 15°12' W	829.40



- 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 NOVEMBER, 2018. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
 - WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.
 - ALL DEEP WELLS WITHIN 3,000' OF LATERAL ARE SHOWN ON THIS PLAT.

LEGEND

- LEASE TRACTS
- SURFACE TRACTS
- WELL LATERAL
- POINT PLEASANT LEGS
- 400' BORE PATH OFFSET
- 500' WELL BORE OFFSET
- UNIT BOUNDARY
- LEASE # (SEE 6A1 FORM)

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,401,572.17
E) 516,698.99

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,402,029.74
E) 516,529.74

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,404,629.58
E) 515,028.72

FILE NUMBER _____

DRAWING NUMBER BLAKE_N-11HU_REV 1

SCALE 1" = 2000'

MINIMUM DEGREE OF ACCURACY 1/200

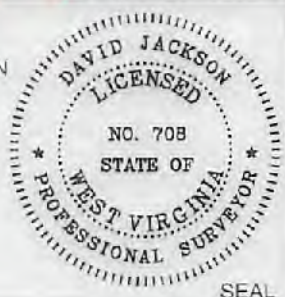
PROVEN SOURCE OF ELEVATION SUBMETER MAPPING
GRADE GPS

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

David L Jackson



JACKSON SURVEYING INC.
P.O. Box 1480
Clarksburg, WV 26302
304-623-6551



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

DATE: APRIL 01, 2019

REVISED: APRIL 12, 2019

OPERATORS WELL NO. BLAKE N-11HU

API WELL NO. 47-051-02205 H&A Deep

STATE COUNTY PERMIT

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

LOCATION ELEVATION 1326.0' WATERSHED (HUC 10) FRENCH CREEK - OHIO RIVER

DISTRICT FRANKLIN COUNTY MARSHALL

QUADRANGLE POWHATAN POINT 7.5' LEASE NUMBER SEE WW-8A1 Form

SURFACE OWNER RUSSELL BLAKE, ET UX ACREAGE 66.0

OIL & GAS ROYALTY OWNER RUSSELL BLAKE, ET UX LEASE ACREAGE 66.0

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: 11,375' TMD: 21,526'

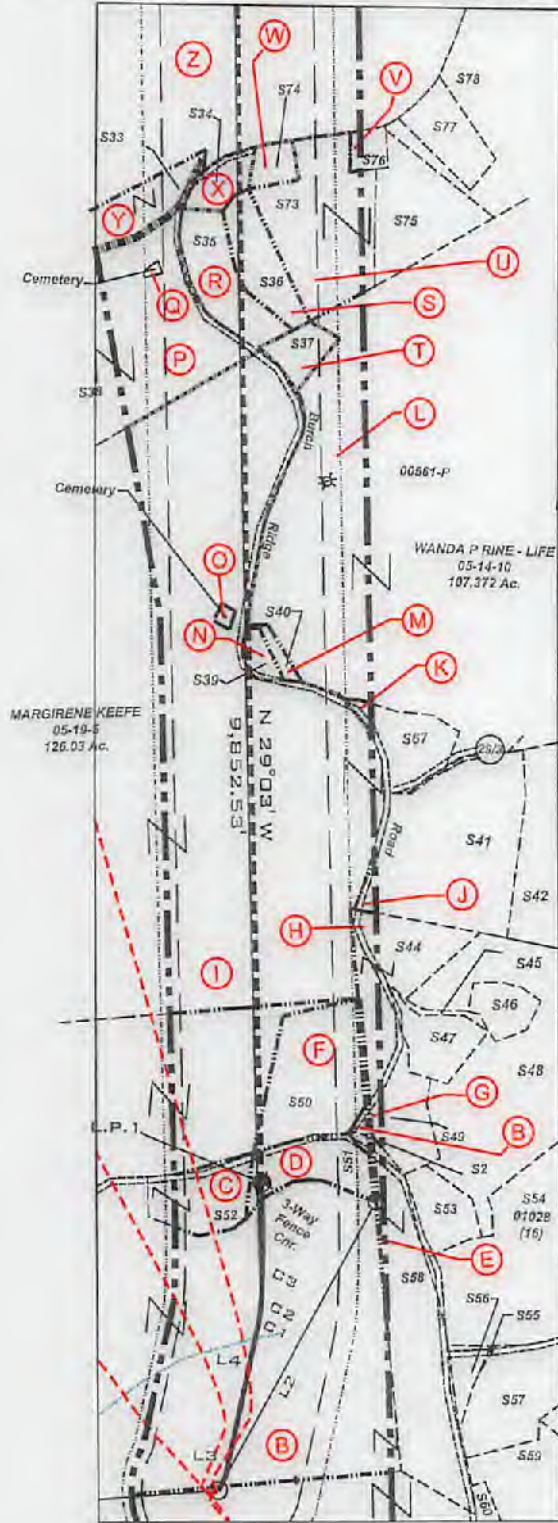
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
CT CORPORATION SYSTEM

ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 CHARLESTON, WV 25313

COUNTY NAME PERMIT

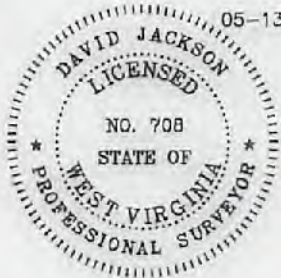
**BLAKE LEASE
WELL N-11HU
389.2782± ACRES**

INSET "A"



NOTES:

- 05-13-41A MAPPED AS PART OF 05-13-41
- 05-13-41B MAPPED AS PART OF 05-13-41, INCORRECTLY ASSESSED AS 05-25-22 4.15 ACRES
- 05-13-41C MAPPED AS PART OF 05-13-41, NOT ASSESSED.



47-051-02205H6A
Deep

David L Jackson

P.S.
708

Number	TAX MAP-PARCEL	SURFACE OWNER	ACRES
S1	05-22-04	CONSOL RCPC, LLC	159.05
S2	B 05-19-20	WILBERT H. BUNGARD ET UX	114.989
S3	05-19-04	JUSTIN RINE	82.75
S4	05-14-02	JOHN B. WILLIAMS, ET AL	20.17
S5	05-13-41C	BENTON DARRAH, LILLIE MAY DUGAN, ALMA BITMER, ALBERTA PALMER & AUDREY HOWARD	1.0
S6	05-13-41B	LARRY & JUDY DARRAH	2.50
S7	05-13-41A	RODNEY & RHONDA JACKSON	17.05
S8	05-13-42	THOMAS & VICTORIA BOWMAN	45.0
S9	05-13-34	DAVID J. MAST	40.0
S10	05-13-35	DAVID J. MAST	24.90
S11	05-13-23	DAVID J. MAST	69.59
S12	05-13-33	NATHAN D. YODER	142.03
S13	05-13-25	AARON PAUL HOLDREN, ET UX	30.0
S14	05-13-27	AARON PAUL HOLDREN, ET UX	25.0
S15	05-13-28	AARON PAUL HOLDREN, ET UX	17.0
S16	05-13-30	CINDY D. ALIFF	3.0
S17	05-13-28.1	CINDY D. ALIFF	1.80
S18	05-13-29	W.V. DEPT. OF HIGHWAYS	1.0
S19	05-13-31	CNX LAND RESOURCES, INC.	31.723
S20	05-13-31.1	W.V. DEPT. OF HIGHWAYS	0.277
S21	05-13-31.2	CNX LAND RESOURCES, INC.	0.938
S22	05-12-27	CONSOL RCPC, LLC	0.67
S23	05-12-26	OHIO RIVER R.R. CO.	4.00
S24	05-12-28	W.V. DEPT. OF HIGHWAYS	1.1
S26	05-12-24.2	W.V. DEPT. OF HIGHWAYS	0.539
S27	05-12-25	OHIO RIVER R.R. CO.	12.8
S28	05-12-24	W.V. DEPT. OF HIGHWAYS	0.964
S29	05-12-24.3	CONSOL RCPC, LLC	18.523
S30	05-12-24.1	W.V. DEPT. OF HIGHWAYS	0.994
S31	05-12-23.2	CONSOLIDATION COAL COMPANY MURRAY ENERGY & CONSOL RCPC, LLC	12.50
S32	CC 05-12-22	CONSOL RCPC, LLC	0.944
S33	Y 05-14-07	DONNA K. & LEROY ANDERSON	4.60
S34	X 05-14-16	GEORGE A. KNUTH	1.6386
S35	R 05-14-9.3	VERNIE A. RINE, ET UX	4.118
S36	S 05-14-9.4	VERNIE A. RINE, ET UX	3.404
S37	T 05-14-10.3	VERNIE A. & JODY K. RINE	1.54
S38	P 05-14-08	LAWRENCE EUGENE ANDERSON	18.29
S39	N 05-14-10.1	IDA RUTAN (LIFE), RALPH R. HOYT	0.50
S40	M 05-14-10.2	(DA RUTAN (LIFE), RALPH R. HOYT	0.495
S41	J 05-14-11	DALE R. GALLAHER, ET AL	12
S42	05-14-12	DALE R. GALLAHER, ET AL	135.100
S43	05-14-14	ROBERT L. SHIELDS, ET AL	29.05
S44	H 05-19-08	BELINDA K. MEADOWS, REBECCA ANN SHEILDS & OLAN RUTAN	5.1099
S45	05-19-7.3	OLAN V. RUTAN, ET UX	0.341
S46	05-19-7.4	OLAN V. RUTAN, ET UX	1.787
S47	05-19-7.2	OLAN RUTAN	2.783
S48	05-19-7	OLAN V. RUTAN, ET UX	32.4801
S49	G 05-19-7.1	ROBERT L. SHIELDS, ET AL	3.399
S50	F 05-19-20.2	CASANDRA L. HARMON	7.448
S51	D 05-19-20.1	JOHN J. EBERT, (LIFE)	3.848
S52	C 05-19-20.3	SIDNEY HARMON	3.715
S53	05-19-7.5	ADAM T. & JESSE L. ROBINSON	2.640
S54	05-19-8	CONSOL RCPC, LLC	40
S55	05-19-11	ERNIE L. ANDERSON, ET UX	0.08
S56	05-19-10	ERNIE L. ANDERSON, ET UX	0.8125
S57	05-19-12	ERNIE L. ANDERSON, ET UX	5.33
S58	E 05-19-09	PENNY ELAINE MENENDEZ	10.44
S59	05-19-29	ERNIE L. & TAMMY L. ANDERSON	10.961
S60	05-19-15	B.J. HERRAN REVOCABLE TRUST	0.177
S61	05-19-30	ERNIE & TAMMY ANDERSON	19.037
S62	05-19-30.1	ERIC R.W. & ASHLEY A. HUGGINS	2.911
S63	05-19-31	CHARLES F. & DIANA L. HAYNES	8.779
S64	05-19-32	JASPER N. BURCH ET AL - TRUSTEES	0.397
S65	05-19-28	DAVID E. YOHO & MARK E. YOHO	56.899
S66	05-19-13.1	DONALD SHIELDS	0.800
S67	K 05-14-10.4	ADAM R. & JESSE L. ROBINSON	3.343
S68	05-19-27	DAVID E. YOHO & MARK E. YOHO	7.041
S69	05-19-14	JAMES & SHERRY BEEGLE	18.356
S70	05-18-01	DIANA HENRY HAYNES & CAROL C. HENRY	62.908
S71	05-14-15	ROBERT L. SHIELDS, ET AL	53.00
S72	05-14-12.1	HENRY WILSON PLUNKERT, JR.	5.00
S73	U 05-14-09	WALTER W. STREIGHT, JR., ET UX	9.311
S74	W 05-14-17	JUSTIN E. & JODY RINE	1.1044
S75	05-14-9.5	MARIA T. FLORES	6.024
S76	V 05-14-19	BRIAN A. & CHARLOTTE MULL	0.92
S77	05-14-9.1	MARIA T. FLORES	2.882
S78	05-14-9.2	MARIA T. FLORES	25.00
S79	05-12-19	JONI LYN LEON	0.457
S80	05-12-20	JONI LYN LEON	0.457
S81	05-12-21	EDWARD L. GIBSON (LIFE)	73.436
S82	05-12-21.1	ROBERT W., JR. & WENDY L. RIGGENBACH	14.222
S83	EE 05-12-06	CONSOL RCPC, LLC	70.81
S84	05-12-6.2	CONSOLIDATION COAL COMPANY/ MURRAY ENERGY	25.50
S85	FF 05-12-23.1	JAMES N. DAUGHERTY	0.28
S86	GG 05-12-23.3	W.V. D.O.H.	0.111
S87	HH 05-12-6.1	W.V. D.O.H.	0.31



**TUG HILL
OPERATING**

OPERATOR'S
WELL #: Blake N-11HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV

WELL PLAT
PAGE 2 OF 3
DATE: 04/01/2019
REVISED: 04/12/2019

**BLAKE LEASE
WELL N-11HU
389.2782± ACRES**

Lease No.	Tag	Parcel	Grantor, Lessor, etc.	Book	Pg
10*14634	A	5-19-19	RUSSELL BLAKE & MARY BLAKE	773	568
10*14141	B	5-19-20.3	DAVID TAKACH AND WIFE DEBORAH	720	233
10*14636	C	5-19-9	WANDA RIDING	794	503
10*14638	D	5-19-9	HUGH YOHO	794	478
10*14141	E	5-19-20.2	DAVID TAKACH AND WIFE DEBORAH ET AL	720	233
10*17958	F	5-14-10.2	IDA RUTAN	958	402
10*18121	G	5-14-8	LAWRENCE EUGENE ANDERSON AND NICOLE M ANDERSON	927	68
10*14619	H	5-14-9.3	SHIRLEY R MILLER	715	414
10*14623	I	5-14-9.3	DUANE D MILLER	717	149
10*14624	J	5-14-9.3	DOUGLAS E MILLER	725	559
10*14625	L	5-14-9.3	JACQUELYN J JOHNSON AND SAMMY R JOHNSON	715	616
10*14626	M	5-14-9.3	STEVEN POND	715	622
10*14627	N	5-14-9.3	BRIAN AND LENA POND	717	51
10*14628	P	5-14-9.3	TEXYN L AND GEORGIA A MILLER	715	514
10*14629	R	5-14-9.3	GERALD R AND LEE A MILLER ET AL	717	1
10*14553	S	5-14-10.3	VERNIE RINE AND JODY K. RINE ET AL	764	302
10*14624	T	5-14-19	DOUGLAS E MILLER	725	559
10*14619	U	5-14-17	SHIRLEY R MILLER ET AL	715	414
10*14625	V	5-14-19	JACQUELYN J JOHNSON AND SAMMY R JOHNSON ET AL	715	616
41112	W	5-12-22	COLUMBIAN CHEMICAL COMPANY ET AL	691	363
Q083768093	X	5-14-5	David Lee Evans, Jr. and Novella Evans, husband and wife ET AL	864	180
Q083768115	Y	5-14-9	Brian P. Powderly and Anita Powderly, h/w	890	566
Q083768116	Z	5-14-16	Susanne S. Quarterman, single ET AL	890	606
10*14141	AA	5-19-20	DAVID TAKACH AND WIFE DEBORAH	720	233
10*14141	BB	5-19-20.1	DAVID TAKACH AND WIFE DEBORAH ET AL	720	233
10*14637	CC	5-19-9	KIMBERLY S. DENNY	794	511
10*14420	EE	5-14-10	ELLIS V. RINE AND WANDA P. RINE ET AL	725	141
10*17968	FF	5-14-10.1	IDA RUTAN	958	402
10*14553	GG	5-14-9.3	VERNIE RINE AND JODY K. RINE	764	302
10*14620	HH	5-14-9.3	ANITA R MILLER ET AL	715	416



47-051-0 2205 H.6A Deep

David L Jackson

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**TUG HILL
OPERATING**

OPERATOR'S
WELL #: Blake N-11HU
DISTRICT: Franklin
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STATE: WV

WELL PLAT
PAGE 3 OF 3
DATE: 04/01/2019
REVISED: 04/12/2019