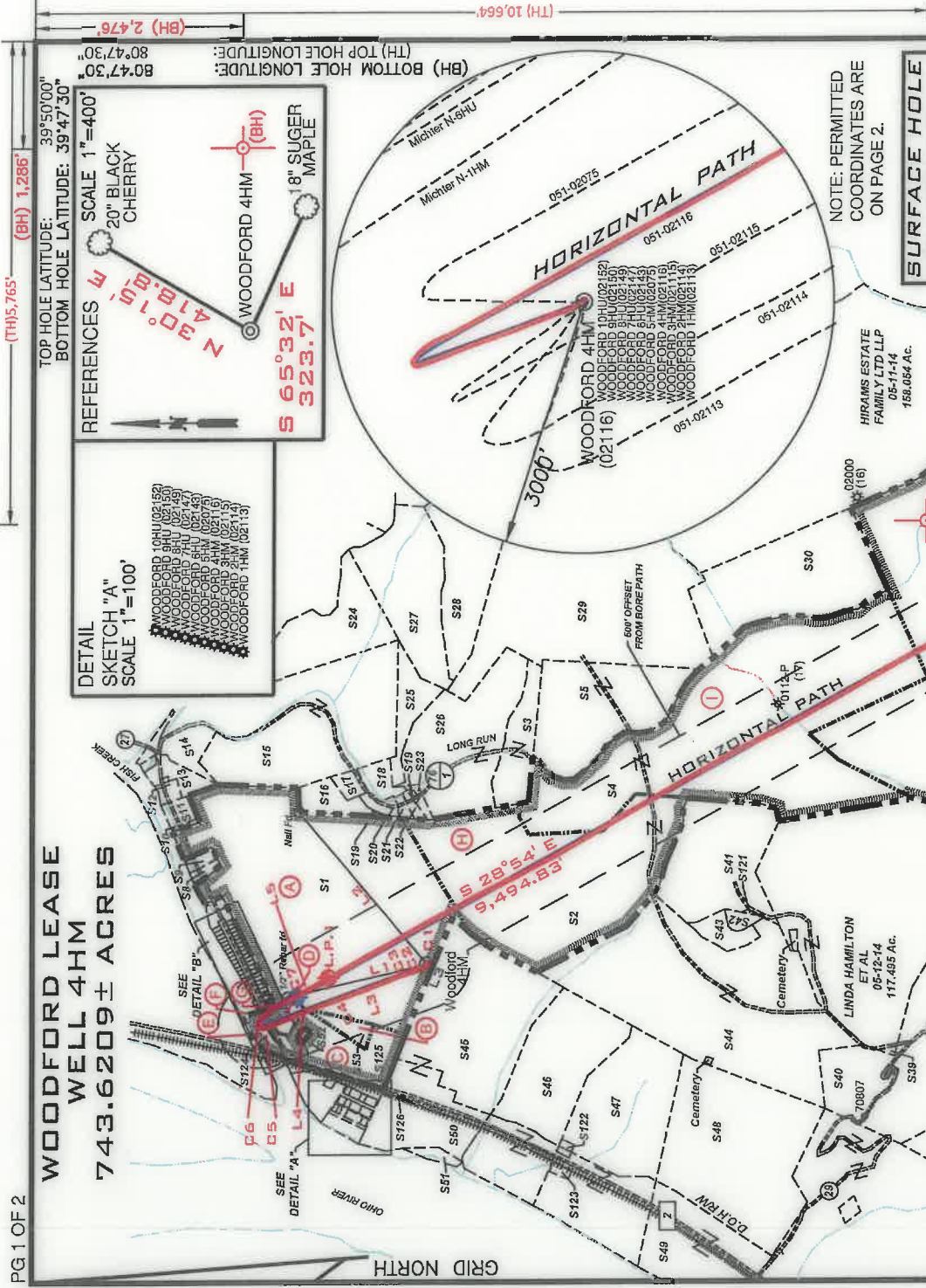


**WOODFORD LEASE
WELL 4HM
743.6209± ACRES**



DETAIL SKETCH "A" SCALE 1"=100'

WOODFORD 10HUC05152
WOODFORD 4HM (02143)
WOODFORD 4HM (02144)
WOODFORD 4HM (02145)
WOODFORD 4HM (02146)
WOODFORD 4HM (02147)
WOODFORD 4HM (02148)
WOODFORD 4HM (02149)
WOODFORD 4HM (02150)
WOODFORD 4HM (02151)
WOODFORD 4HM (02152)
WOODFORD 4HM (02153)

TOP HOLE LATITUDE: 39°50'00"
BOTTOM HOLE LATITUDE: 39°47'30"
REFERENCES: SCALE 1"=400'
20" BLACK CHERRY
(BH) BOTTOM HOLE LONGITUDE: 80°47'30"
(TH) TOP HOLE LONGITUDE: 80°47'30"
(BH) 1.266'
(TH) 5.765'
(BH) 2.476'
WOODFORD 4HM (BH)
18" SUGER MAPLE
S 65°32' E 323.7'
N 40°15' W 418.810'

DETAIL SKETCH "B" SCALE 1"=100'

WOODFORD 10HUC05152
WOODFORD 4HM (02143)
WOODFORD 4HM (02144)
WOODFORD 4HM (02145)
WOODFORD 4HM (02146)
WOODFORD 4HM (02147)
WOODFORD 4HM (02148)
WOODFORD 4HM (02149)
WOODFORD 4HM (02150)
WOODFORD 4HM (02151)
WOODFORD 4HM (02152)
WOODFORD 4HM (02153)

WOODFORD 4HM (02116)
WOODFORD 4HM (02117)
WOODFORD 4HM (02118)
WOODFORD 4HM (02119)
WOODFORD 4HM (02120)
WOODFORD 4HM (02121)
WOODFORD 4HM (02122)
WOODFORD 4HM (02123)
WOODFORD 4HM (02124)
WOODFORD 4HM (02125)
WOODFORD 4HM (02126)
WOODFORD 4HM (02127)
WOODFORD 4HM (02128)
WOODFORD 4HM (02129)
WOODFORD 4HM (02130)

LINE	BEARING	DISTANCE
L1	N 12°58' W	1711.81'
L2	N 49°58' E	2388.10'
L3	N 20°21' W	58.86'
L4	N 20°25' W	1917.03'
L5	S 45°32' E	158.40'

LEGEND

--- LEASE TRACTS

--- SURFACE TRACTS

--- UNIT BOUNDARY

(A) LEASE # (SEE 6A1 FORM)

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, 2017. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.

4. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.

ASDRILLED LEG PERMITTED LEG

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

CURVE	CHORD	BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	N 74.14° W	7.53	4.05	5.78	5.78
C2	N 27.78° W	26.89	110.86	37.09	37.09
C3	N 39.02° W	61.10	408.81	61.16	61.16
C4	N 08.48° E	78.65	72.90	63.07	63.07
C5	S 77.34° E	72.78	53.40	80.08	80.08
C6	S 39.73° E	248.51	490.27	247.35	247.35
C7	S 27.21° E	486.53	982.51	486.53	486.53

FILE NUMBER _____

DRAWING NUMBER **WOODFORD_WP_4HM**

SCALE **1" = 2000'**

MINIMUM DEGREE OF ACCURACY **1/200**

PROVEN SOURCE OF ELEVATION **SUBMETER MAPPING**

GRADE **GPS**

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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. 708

David L Jacobson

JACKSON SURVEYING INC.
P.O. Box 1460
Clerksburg, WV 26602
304-523-5851

DAVID JACKSON
NO. 708
STATE OF WEST VIRGINIA
PROFESSIONAL SURVEYOR

SEAL

WV/DEP
OFFICE OF OIL & GAS
601 57H STREET, SE
CHARLESTON, WV 25304

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

DATE: **JULY 23, 2020**

OPERATORS WELL NO. **Woodford 4HM**

API WELL NO. **47-051-02116**

STATE **WV** COUNTY **FRANKLIN**

LOCATION ELEVATION **1234.03'** WATERSHED (HUC 10) **FRENCH CREEK - OHIO RIVER**

DISTRICT **FRANKLIN** COUNTY **MARSHALL**

QUADRANGLE **POWHATAN POINT 7.5'** LEASE NUMBER **SEE WW-6A1 Form**

SURFACE OWNER **CNX RPCO, LLC** ACREAGE **155.7119**

OIL & GAS ROYALTY OWNER **HG ENERGY II APPALACHIA LC (TRACT 5-7-43)** LEASE ACREAGE **155.7119**

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** PLUG & ABANDON ___ CLEAN OUT & REPLUG ___

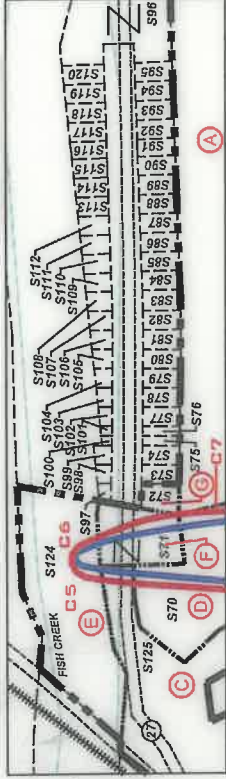
ESTIMATED DEPTH **TVD: 6,472' TMD: 17,216'**

DESIGNATED AGENT **DIANNA STAMPER CT CORPORATION SYSTEM**

ADDRESS **5400 D BIG TYLER ROAD CHARLESTON, WV 25313**



**WOODFORD LEASE
WELL 4HM
743.6209 ± ACRES**



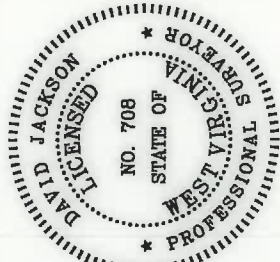
DETAIL "A"
Scale
1"=500'



DETAIL "B"
Scale
1"=500'

Number	TAX MAP-PARCEL	ADJOINER OWNER	ACRES
S1	05-07-43	CNX RCPCL, LLC	155.7119
S2	05-12-08	Amita Rae Miller (Life)	100.35
S3	05-12-10	Consolidation Coal Co./ Murray Energy	13.76
S4	05-12-12.1	Lionel L. Persinger, Et Ux.	148.09
S5	05-12-12	Lionel L. Persinger, Et Ux.	45
S6	05-11-15	Lionel L. Persinger, Et Ux.	93
S7	05-15-01	Marcus Sharp & David Schlabach, Hrs.	121
S8	05-7B-49	Cassidy Rain Carpenter	1.1441
S9	05-7B-48	Cassidy Rain Carpenter	1.325
S10	05-07-43.3	M. Frank Mason	0.327
S11	05-07-43.2	M. Frank Mason	1.36
S12	05-07-38	John K. Persinger, Et Ux.	2.65
S13	05-07-36	John K. Persinger	4.329
S14	05-07-35	Samuel L. Persinger	10.708
S15	05-07-39	Lionel L. Persinger, et ux	57
S16	05-07-42.1	Holly Rice	5.99
S17	05-07-41	James A. Wade	1
S18	05-07-42.5	Matthew V. Conner, et al	3.791
S19	05-07-42	Tracy M. Kesterson	0.53
S20	05-07-44	Crystal B. Darrah	1.726
S21	05-07-42.2	Steven & Rhonda Lloyd	0.85
S22	05-07-42.3	Joshua David Hartley	0.886
S23	05-07-42.4	Jason Reed Hartley	0.94
S24	05-07-33	William N. Roupe	24.6
S25	05-12-09	Lionel & Mary Lee Persinger	10.15
S26	05-12-10.1	Consolidation Coal Co./ Murray Energy	38.48
S27	05-11-1.4	Larry W. Dunlap, et al	32.493
S28	05-11-1.1	Larry W. Dunlap & Charles Leroy Dunlap	34.405
S29	05-11-21	Karen Reed, et al	112.67
S30	05-12-11	Wesley B. Bryan & Wesley R. Bryan II	52.478
S31	05-15-04	Joseph J. Kramer, et ux	41.106
S32	05-15-03	Joseph J. Kramer, et ux	36.10
S33	05-15-02	John David Petrock, et ux	5
S34	05-15-14	John David Petrock, et ux	25
S35	05-15-12	John David Petrock, et ux	150.23
S36	05-15-15	Robert L. Shields, et al	49
S37	05-14-12	Dale R. Gallaher, et al	135.100
S38	05-14-10	Wanda P. Rine (Life)	107.372
S39	05-12-15	Woodlana Hillis Church of God Trs.	0.375
S40	05-12-21.1	Robert W. Jr. & Wendy L. Riggenbach	14.222
S41	05-12-13	Linda Hamilton, et al	41.887
S42	05-12-7.1	Raymond K. Miller	1.609
S43	05-12-7.2	Raymond K. Miller	4.66
S44	05-12-07	Robert Wm. Riggenbach, et ux	104.231
S45	05-12-02	CNX RCPCL, LLC	60.68
S46	05-12-03	CNX LAND, LLC	62.30
S47	05-12-05	CNX LAND, LLC	61.883
S48	05-12-06	CNX RCPCL, LLC	70.81
S49	05-12-6.2	Consolidation Coal Co./ Murray Energy	25.50
S50	05-12-2.1	Consolidation Coal Co./ Murray Energy	22

SURFACE HOLE UTM, NAD83, ZONE 17 IN METERS N) 4,406,032.90 E) 516,092.94
LANDING POINT 1 UTM, NAD83, ZONE 17 IN METERS N) 4,406,506.18 E) 515,967.99
BOTTOM HOLE UTM, NAD83, ZONE 17 IN METERS N) 4,403,910.48 E) 517,466.62



P.S.
708
David L. Jackson



TUG HILL
OPERATING

Number	TAX MAP-PARCEL	ADJOINER OWNER	ACRES
S51	05-12-01	US of America	1.68
S52	05-07-43.4	Ida Campbell	0.403
S53	05-07-43.1	State Road Commission	1.48
S54	05-7A-17	Carol Martin & Harry L. Yoho	0.3067
S55	05-7A-18	Barbara Anderson	0.1530
S56	05-7A-19	Barbara Anderson	0.3060
S57	05-7A-20	Betty Sexton	0.1204
S58	05-7A-24	Rick A. Kosky	0.3152
S59	05-7A-23	Harold S. Young, et ux	0.3067
S60	05-7A-22	Richard Hyer, et ux	0.1530
S61	05-7A-21	David A. Beyer	0.1866
S62	05-7A-25	Rick A. Kosky	0.1638
S63	05-7A-26	Lance Clark	0.4531
S64	05-7A-27	Paul W. Barrett	0.1495
S65	05-7A-28	Richard Hyer, et ux	0.1093
S66	05-7A-29	Richard Hyer, et ux	0.1085
S67	05-7A-30	Richard Hyer, et ux	1.9
S68	05-7A-31	WVA Dept. of Natural Resources	3.18
S69	05-7A-32	Dawn Thompson Tennant	0.3091
S70	05-7A-02	CNX RCPCL, LLC	2.23
S71	05-7A-01	Lucille Myers	0.529
S72	05-7B-25	Cindy D. Aliff	0.1673
S73	05-7B-26	Cindy D. Aliff	0.1148
S74	05-7B-27	Patricia A. Johnson	0.1148
S75	05-7B-28	Patricia A. Johnson	0.0574
S76	05-7B-28.1	Patricia A. Johnson	0.0574
S77	05-7B-29	Patricia A. Johnson	0.1148
S78	05-7B-30	Cindy D. Aliff, et al	0.1148
S79	05-7B-31	Cindy D. Aliff, et al	0.1148
S80	05-7B-32	Albert J. Anderson, Jr.	0.1148
S81	05-7B-33	Albert J. Anderson, Jr.	0.1182
S82	05-7B-34	Albert J. Anderson, Jr.	0.1148
S83	05-7B-35	Albert J. Anderson, Jr.	0.1217
S84	05-7B-36	Albert J. Anderson, Jr.	0.1148
S85	05-7B-37	Teresa & Thomas Gouldsberry	0.1148
S86	05-7B-38	Teresa & Thomas Gouldsberry	0.1148
S87	05-7B-39	Teresa & Thomas Gouldsberry	0.1148
S88	05-7B-40	Teresa & Thomas Gouldsberry	0.1148
S89	05-7B-41	Teresa & Thomas Gouldsberry	0.1148
S90	05-7B-42	Teresa & Thomas Gouldsberry	0.1194
S91	05-7B-43	Teresa & Thomas Gouldsberry	0.1148
S92	05-7B-44	Daniel D. & Mary E. Robinson	0.1148
S93	05-7B-45	Daniel D. & Mary E. Robinson	0.1145
S94	05-7B-46	Daniel D. Robinson, et ux	0.1148
S95	05-7B-47	Daniel D. Robinson, et ux	0.1148
S96	05-7B-24	Cindy D. Aliff	0.0354
S97	05-7B-23	Cindy D. Aliff	0.0471
S98	05-7B-22	Patricia A. Johnson	0.0505
S99	05-7B-21	Patricia A. Johnson	0.0287
S100	05-7B-21.1	Patricia A. Johnson	0.0296
S101	05-7B-20	Patricia A. Johnson	0.0626
S102	05-7B-19	Cindy D. Aliff, et al	0.0712
S103	05-7B-18	Cindy D. Aliff, et al	0.0763
S104	05-7B-17	Albert J. Anderson, Jr.	0.0849
S105	05-7B-16	Albert J. Anderson, Jr.	0.0903
S106	05-7B-15	Albert J. Anderson, Jr.	0.0970
S107	05-7B-14	Albert J. Anderson, Jr.	0.0991
S108	05-7B-13	Albert J. Anderson, Jr.	0.1067
S109	05-7B-12	Teresa & Thomas Gouldsberry	0.1113
S110	05-7B-11	Teresa & Thomas Gouldsberry	0.1159
S111	05-7B-10	Teresa & Thomas Gouldsberry	0.1199
S112	05-7B-09	Teresa & Thomas Gouldsberry	0.1240
S113	05-7B-08	Teresa & Thomas Gouldsberry	0.1286
S114	05-7B-07	Teresa & Thomas Gouldsberry	0.1331
S115	05-7B-06	Teresa & Thomas Gouldsberry	0.1377
S116	05-7B-05	Daniel D. & Mary E. Robinson	0.1418
S117	05-7B-04	Daniel D. & Mary E. Robinson	0.1458
S118	05-7B-03	Daniel D. Robinson, et ux	0.1504
S119	05-7B-02	Daniel D. Robinson, et ux	0.1550
S120	05-7B-01	Patricia L. Robinson	1.257
S121	05-12-13.1	Raymond K. Miller	0.113
S122	05-12-5.1	CNX RCPCL, LLC	0.52
S123	05-12-04	CNX RCPCL, LLC	0.93
S124	Fish Creek	State of W.V.	2.43(Calic.)
S125	Rt. 2	State Road Commission	17.62(Calic.)
S126	R.R.	CSX Transportation	4.99(Calic.)

OPERATOR'S

WELL #: WOODFORD 4HM

API #: 47-051-02116

DISTRICT: Franklin

COUNTY: Marshall

STATE: WV

WELL PLAT

PAGE 2 OF 2

DATE: 07/28/2020