

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

RECEIVED
Office of Oil and Gas
DEC 23 2024
WV Department of
Environmental Protection

API 47-051-02378 County Marshall District Meade
Quad Glen Easton 7.5' Pad Name HUDSON Field/Pool Name N/A
Farm name CNX LAND, LLC Well Number Hudson S-7HM (L017754)
Operator (as registered with the OOG) EQT Production Company
Address 400 Woodcliff Drive City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,408,813.90 Easting 528,014.38
Landing Point of Curve Northing 4,408,969.8 Easting 528,467.6
Bottom Hole Northing 4,405,384.6 Easting 530,741.9

Elevation (ft) 1346' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)
Synthetic Oil Based Mud 14.26 ppg barium sulfate, sodium chloride, xanthan gum, polyanionic cellulose, modified starch, sodium hydroxide, phosphonates and alkyl phosphates, glutaraldehyde solution, calcium hydroxide, partially hydrolyzed polyacrylamide/polyacrylate, potassium chloride, sodium carbonate, ground walnut shells, alcohol and modified fatty acid, ferrochrome lignosulfonate, calcium carbonate, fibrous cellulose

Date permit issued 05/11/2021 Date drilling commenced 09/26/2022 Date drilling ceased 01/20/2024
Date completion activities began 08/20/2024 Date completion activities ceased 09/26/2024
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 77', 572', 622', 766', 916', 976', 1036' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1736', 1887', 2076' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 888', 970' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

APPROVED

Reviewed by:
[Signature]
02/07/2025
1/21/2025

API 47-051 - 02378

Farm name CNX LAND, LLC

Well number Hudson S-7HM (L017754)

CASING STRINGS	Hole Size	Casing Size	Depth (GL)	New or Used	Grade wt/ft	Basket Depth(s) (GL)	Did cement circulate (Y/N) * Provide details below*
Conductor	36"	30"	120'	NEW	118.65#	N/A	Y
Surface	17-1/2"	13-3/8"	1294'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2446'	NEW	J-55 36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4", 8-1/2"	6"	21,576'	NEW	P-110 24#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 1002' GL, which is greater than 500' TVD above the producing formation. No issues during cement job.

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CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (GL)	WOC (ft)
Conductor	CLASS A	473	15.6	1.21	572	0	8+
Surface	CLASS A	1346	16.0	1.13	1521	0	8
Coal							
Intermediate 1	CLASS A	877	15.6	1.18	1034	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3545	15.0	1.18	4183	1002'	8+
Tubing							

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Drillers TD (ft) 21,594' Loggers TD (ft) N/A
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 2572'

Check all wireline logs run
 caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____
 CONDUCTOR- NONE _____
 SURFACE- ON SHOE TRACK AND EVERY 500' TO SURFACE _____
 INTERMEDIATE: ON SHOE TRACK AND EVERY 500' FEET TO SURFACE _____
 PRODUCTION: ON SHOE TRACK, EVERY OTHER JOINT TO 7313' AND EVERY JOINT TO 1830' _____

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

02/07/2025

API 47- 051 - 02378

Farm name CNX LAND, LLC

Well number Hudson S-7HM (L017754)

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	See Attached				

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Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
			See Attached					

Please insert additional pages as applicable.

API 47- 051 - 02378

Farm name CNX LAND, LLC

Well number Hudson S-7HM (L017754)

PRODUCING FORMATION(S)

DEPTHS

Marcellus 6,766-7,027 TVD 7,238-21,594 MD

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Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2519 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 6459 mcfpd Oil 0 bpd NGL 149 bpd Water 542 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		

Please insert additional pages as applicable.

Drilling Contractor Patterson UTI (294)
Address 207 Carlton Drive City Eighty Four State PA Zip 15330

Logging Company Baker Hughes
Address 400 Technology Dr Suite 100 City Canonsburg State PA Zip 15317

Cementing Company Halliburton
Address 121 Champion Way Suite 110 City Canonsburg State PA Zip 15317

Cementing Company Universal Pressure Pumping, Inc.
Address 13549 S. Moiserstown Road City Meadville State PA Zip 16335

Please insert additional pages as applicable.

Completed by Jacob Caplan Telephone 412-215-2723
Signature [Signature] Title Mgr Completions Engr Date 2024-12-16

API 47- 051 - 02378 Farm name CNX LAND, LLC Well number Hudson S-7HM (L017754)

Drilling Contractor Falcon (Rig 27)
Address 1120 US-119 City Indiana State PA Zip 15701

Logging Company Scientific Drilling International
Address 124 Vista Drive City Charleroi State PA Zip 15022

Logging Company GyroData
Address 73 Noblestown Road City Carnegie State PA Zip 15106

Drilling Contractor _____
Address _____ City _____ State _____ Zip _____

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Well # HUDSON S-7HM (L017754) Final Formations API# 47-051-02378

Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	888	888
Sewickley Coal	888	888	891	891
Sand/Shale	891	891	970	970
Pittsburgh Coal	970	970	978	978
Sand/Shale	978	978	2,049	2,049
Big Lime	2,049	2,049	2,303	2,302
Big Injun	2,303	2,302	2,359	2,358
Sand/Shale	2,359	2,358	2,633	2,632
Berea	2,633	2,632	3,070	3,065
Sand/Shale	3,070	3,065	3,128	3,121
Gordon	3,128	3,121	3,197	3,188
Sand/Shale	3,197	3,188	3,338	3,324
Bayard	3,338	3,324	3,618	3,589
Sand/Shale	3,618	3,589	5,460	5,279
Alexander	5,460	5,279	5,908	5,692
Elks	5,908	5,692	6,689	6,413
Sonyea	6,689	6,413	6,825	6,525
Middlesex	6,825	6,525	6,868	6,558
Genesee	6,868	6,558	6,947	6,614
Geneseo	6,947	6,614	6,980	6,637
Tully	6,980	6,637	7,019	6,661
Hamilton	7,019	6,661	7,238	6,766
Marcellus	7,238	6,766	21,594	7,027

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**HUDSON S
WELL 7HM
EQT PRODUCTION CO.**

T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°50'00"

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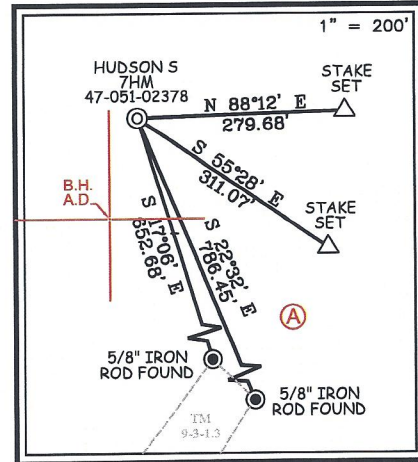
T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-3-1.1	CONSOLIDATION COAL CO. & MURRAY ENERGY	5.00
9-3-1.2	MARSHALL COUNTY COAL	1.00
9-3-2.1	JAMES & GINGER REGIEC	0.940
9-3-2.2	JOHN W. & RACHEL A. HOLPP	0.483
9-3-2.5	STEPHEN W. JOHNSON, III	0.591
9-3-2.4	JOHN W. & RACHEL A. HOLPP	0.618
9-3-2.6	RAYMOND & (INDY) WHITE	0.619
9-3-4.2	GRANT M. & MALISSA D. CARTER	0.720
9-3-4.3	JOHN & RACHEL HOLPP	0.870
9-3-4.6	DAVID F. WEST, ET UX	12.035
9-3-4.1	TRAVIS POSTLETHWAIT	1.0468
9-3-18.1	LLOYD A. BEE ET UX	1.010
9-3-18.2	RAYMOND E. & CINDY L. WHITE	2.103
9-3-18.3	RAYMOND E. & CINDY L. WHITE	0.086
9-8-4.1	CNX LAND RESOURCES LLC	1.04
9-9-14.2	NAUVOO CEMETERY ASSOCIATION INC.	0.292
9-9-15	CHURCH OF LATTER DAY SAINTS TRUSTEES	LOT (NO AC.)
9-9-18	VIRGINIA MCIVAIN ESTATE & THE WHIPKEY TRUST	LOT (NO AC.)
N/A	WV DOH	2.84
N/A	SCHOOL LOT	LOT (NO AC.)
9-8-4	DONALD M. & THERESA L. HARRIS	3.183
9-8-3	CHURCH OF CHRIST & CEMETERY	2.245
9-8-2	CNX LAND LLC	6000 SQ.FT.
9-5-11.1	MARK H. FOX	2.619

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)		
NAD'83 S.P.C.(FT)	N. 486,162.43	E. 1,639,182.25
NAD'83 GEO.	LAT-(N) 39.828860	LONG-(W) 80.672624
NAD'83 UTM (M)	N. 4,408,813.90	E. 528,014.38
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 486,672.6	E. 1,640,665.0
NAD'83 GEO.	LAT-(N) 39.830313	LONG-(W) 80.667368
NAD'83 UTM (M)	N. 4,408,976.9	E. 528,463.5
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 474,757.5	E. 1,647,943.5
NAD'83 GEO.	LAT-(N) 39.797862	LONG-(W) 80.640915
NAD'83 UTM (M)	N. 4,405,383.9	E. 530,741.6

AS DRILLED COORDINATES FOR WELL NO. 7HM		
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17)		
NAD'83 S.P.C.(FT)	N. 486,162.43	E. 1,639,182.25
NAD'83 GEO.	LAT-(N) 39.828860	LONG-(W) 80.672624
NAD'83 UTM (M)	N. 4,408,813.90	E. 528,014.38
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 486,649.0	E. 1,640,678.1
NAD'83 GEO.	LAT-(N) 39.830249	LONG-(W) 80.667321
NAD'83 UTM (M)	N. 4,408,969.8	E. 528,467.6
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 474,759.7	E. 1,647,944.6
NAD'83 GEO.	LAT-(N) 39.797868	LONG-(W) 80.640911
NAD'83 UTM (M)	N. 4,405,384.6	E. 530,741.9

REFERENCES



NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS OR DWELLINGS ≥ 2500 SQ. FT. WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.
- WELL PLAT UPDATED TO SHOW AS-DRILLED PATH.
- AS-DRILLED INFORMATION PROVIDED BY EQT PRODUCTION CO.

SLS
FROM THE GROUND UP

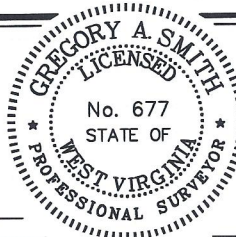
12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.2654
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3852
254 East Beckley Bypass | Beckley, WV 25801 | 304.295.5296

slsvv.com

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S.
677

Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE FEBRUARY 12, 20 24
REVISED _____, 20 ____
OPERATORS WELL NO. HUDSON S-7HM
API WELL NO. 47 - 051 - 02378
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8911EQT-P7HMAD.dwg

HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS



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

LOCATION: ELEVATION 1,346.26' WATERSHED GRAVE CREEK (HUC 10)

DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER CNX LAND LLC ACREAGE 106.935±

ROYALTY OWNER CHARLENE L. BAKER, ET AL ACREAGE 106.935±

PROPOSED WORK: LEASE NO. SEE WW-6A1

DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___

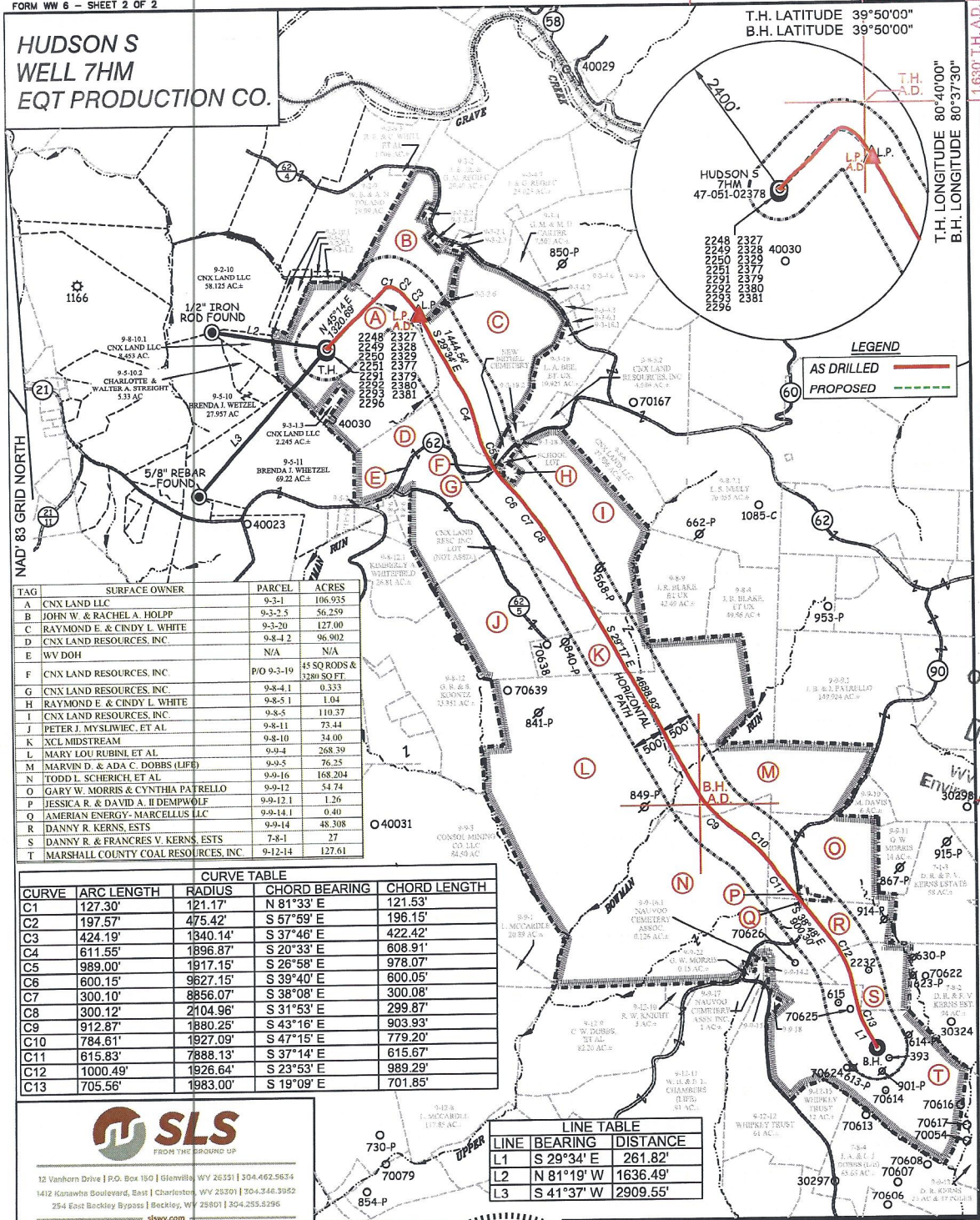
PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD: 6,782' / TMD: 21,529

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT JOSEPH C. MALLOW
ADDRESS 400 WOODCLIFF DRIVE ADDRESS 427 MIDSTATE DRIVE
CANONSBURG, PA 15317 CLARKSBURG, WV 26301

02/07/2025

COUNTY NAME
PERMIT

**HUDSON S
WELL 7HM
EQT PRODUCTION CO.**



TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND LLC	9-3-1	106.935
B	JOHN W. & RACHEL A. HOLPP	9-3-2,5	56.259
C	RAYMOND E. & CINDY L. WHITE	9-3-20	127.00
D	CNX LAND RESOURCES, INC.	9-8-1,2	96.902
E	WV DOH	N/A	N/A
F	CNX LAND RESOURCES, INC.	P/O 9-3-19	45 SQ RODS & 3280 SQ FT
G	CNX LAND RESOURCES, INC.	9-8-4,1	0.333
H	RAYMOND E. & CINDY L. WHITE	9-8-5,1	1.04
I	CNX LAND RESOURCES, INC.	9-8-5	110.37
J	PETER J. MYSLIWEIC, ET AL	9-8-11	73.44
K	XCL MIDSTREAM	9-8-10	34.00
L	MARY LOU RUBINI ET AL	9-9-4	268.39
M	MARVIN D. & ADA C. DOBBS (LIFE)	9-9-5	76.25
N	TODD L. SCHERICH, ET AL	9-9-16	168.204
O	GARY W. MORRIS & CYNTHIA PATRELLO	9-9-12,1	1.26
P	JESSICA R. & DAVID A. H. DEMPWOLF	9-9-14,1	0.40
Q	AMERICAN ENERGY-MARCELLUS LLC	9-9-14,1	48.308
R	DANNY R. & FRANCIS V. KERNS, ESTS	7-8-1	27
S	DANNY R. & FRANCIS V. KERNS, ESTS	7-8-1	27
T	MARSHALL COUNTY COAL RESOURCES, INC.	9-12-14	127.61

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	127.30'	121.17'	N 81°33' E	121.53'
C2	197.57'	475.42'	S 57°59' E	196.15'
C3	424.19'	1340.14'	S 37°46' E	422.42'
C4	611.55'	1896.87'	S 20°33' E	608.91'
C5	989.00'	1917.15'	S 26°58' E	978.07'
C6	600.15'	9627.15'	S 39°40' E	600.05'
C7	300.10'	8856.07'	S 38°08' E	300.08'
C8	300.12'	2104.96'	S 31°53' E	299.87'
C9	912.87'	1880.25'	S 43°16' E	903.93'
C10	784.61'	1927.09'	S 47°15' E	779.20'
C11	615.83'	7888.13'	S 37°14' E	615.67'
C12	1000.49'	1926.64'	S 23°53' E	989.29'
C13	705.56'	1983.00'	S 19°09' E	701.85'

LINE	BEARING	DISTANCE
L1	S 29°34' E	261.82'
L2	N 81°19' W	1636.49'
L3	S 41°37' W	2909.55'

SLS
FROM THE GROUND UP

12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.9634
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.9592
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.8296
 slswv.com

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GREGORY A. SMITH
 LICENSED
 No. 677
 STATE OF
 WEST VIRGINIA
 PROFESSIONAL SURVEYOR

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

P.S. 677 *Gregory A. Smith*

LEGEND

- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- TAX MAP-PARCEL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE WW-6A1)

SCALE 1" = 2000' FILE NO. 891EQT-P7HMAD.dwg

DATE FEBRUARY 12, 2024
 REVISED _____, 20____

OPERATORS WELL NO. HUDSON S-7HM
 API WELL 47-051-02378
 NO. STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS

WELL OPERATOR **EQT PRODUCTION COMPANY** ADDRESS 400 WOODCLIFF DRIVE CANONSBURG, PA 15317
 DESIGNATED AGENT **JOSEPH C. MALLOW** ADDRESS 427 MIDSTATE DRIVE CLARKSBURG, WV 26301

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 WV Department of Environmental Protection

02/07/2025

Perforation Data

02/07/2025

Stage No.	Perforation Date	Stage Perforated From TMD Ft.	Stage Perforated To TMD Ft.	# of Perforations/Stage	Formation(s)
2	08/21/2024	21357	21221	40	Marcellus
3	08/21/2024	21202	21022	40	Marcellus
4	08/21/2024	21003	20822	40	Marcellus
5	08/22/2024	20803	20623	40	Marcellus
6	08/22/2024	20604	20423	40	Marcellus
7	08/22/2024	20404	20224	40	Marcellus
8	08/23/2024	20205	20024	40	Marcellus
9	08/23/2024	19379	19197	40	Marcellus
10	08/23/2024	19178	18997	40	Marcellus
11	08/24/2024	18978	18796	40	Marcellus
12	08/24/2024	18777	18595	40	Marcellus
13	08/24/2024	18576	18395	40	Marcellus
14	08/24/2024	18376	18194	40	Marcellus
15	08/24/2024	18175	17994	40	Marcellus
16	08/25/2024	17975	17793	40	Marcellus
17	08/25/2024	17774	17592	40	Marcellus
18	08/25/2024	17573	17392	40	Marcellus
19	08/25/2024	17373	17191	40	Marcellus
20	08/26/2024	17172	16990	40	Marcellus
21	08/26/2024	16971	16790	40	Marcellus
22	08/26/2024	16771	16589	40	Marcellus
23	08/26/2024	16570	16388	40	Marcellus
24	08/26/2024	16369	16188	40	Marcellus
25	08/26/2024	16169	15987	40	Marcellus
26	08/27/2024	15968	15787	40	Marcellus
27	08/27/2024	15767	15586	40	Marcellus
28	08/27/2024	15567	15385	40	Marcellus
29	08/27/2024	15366	15185	40	Marcellus
30	08/28/2024	15166	14984	40	Marcellus
31	08/28/2024	14965	14783	40	Marcellus
32	08/29/2024	14764	14583	40	Marcellus
33	08/29/2024	14564	14382	40	Marcellus
34	08/30/2024	14363	14181	40	Marcellus
35	08/30/2024	14162	13981	40	Marcellus
36	08/31/2024	13962	13780	40	Marcellus
37	09/01/2024	13761	13579	40	Marcellus
38	09/01/2024	13560	13379	40	Marcellus
39	09/01/2024	13360	13178	40	Marcellus
40	09/02/2024	13159	12978	40	Marcellus
41	09/02/2024	12959	12777	40	Marcellus
42	09/02/2024	12758	12576	40	Marcellus

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43	09/02/2024	12557	12376	40	Marcellus
44	09/02/2024	12357	12175	40	Marcellus
45	09/03/2024	12156	11974	40	Marcellus
46	09/03/2024	11955	11774	40	Marcellus
47	09/03/2024	11755	11573	40	Marcellus
48	09/03/2024	11554	11372	40	Marcellus
49	09/03/2024	11353	11172	40	Marcellus
50	09/04/2024	11153	10971	40	Marcellus
51	09/04/2024	10952	10771	40	Marcellus
52	09/04/2024	10751	10570	40	Marcellus
53	09/04/2024	10551	10369	40	Marcellus
54	09/05/2024	10350	10169	40	Marcellus
55	09/05/2024	10150	9968	40	Marcellus
56	09/05/2024	9949	9767	40	Marcellus
57	09/05/2024	9748	9567	40	Marcellus
58	09/06/2024	9548	9366	40	Marcellus
59	09/06/2024	9347	9165	40	Marcellus
60	09/06/2024	9146	8965	40	Marcellus
61	09/06/2024	8946	8764	40	Marcellus
62	09/07/2024	8745	8563	40	Marcellus
63	09/07/2024	8544	8363	40	Marcellus
64	09/07/2024	8344	8162	40	Marcellus
65	09/08/2024	8143	7962	40	Marcellus
66	09/08/2024	7943	7761	40	Marcellus
67	09/08/2024	7742	7560	40	Marcellus
68	09/08/2024	7541	7360	40	Marcellus

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Stimulation Data

02/07/2025

Stage #	Stimulation Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	08/21/2024	77	8578	7408	4995	249891	6704.000	
2	08/21/2024	100	8511	5680	4013	500027	10303.000	
3	08/22/2024	100	8273	5398	4965	500000	10201.000	
4	08/22/2024	99	8499	5462	4926	499941	10221.000	
5	08/22/2024	100	8264	5538	4923	499991	10216.000	
6	08/23/2024	100	8145	7090	4979	499945	10195.000	
7	08/23/2024	100	8301	4955	4514	500021	10194.000	
8	08/23/2024	99	8373	5000	4232	487340	10147.000	
9	08/23/2024	96	7921	5793	4158	499997	10823.000	
10	08/24/2024	99	8356	5494	4791	499950	10179.000	
11	08/24/2024	100	8359	5563	4456	500040	10207.000	
12	08/24/2024	101	8132	5164	5189	500009	11280.000	
13	08/25/2024	100	8454	7657	7172	500028	12000.000	
14	08/25/2024	100	8115	6434	5965	500054	10744.000	
15	08/25/2024	96	8377	5166	4761	502071	10156.000	
16	08/25/2024	100	8279	5185	4441	500069	10140.000	
17	08/25/2024	100	8064	5188	4438	500063	10770.000	
18	08/26/2024	99	8077	6168	4477	499949	10665.000	
19	08/26/2024	100	7846	4945	4607	499950	10114.000	
20	08/26/2024	100	7585	5114	4610	500115	10082.000	
21	08/26/2024	100	7782	5073	4453	500198	10585.000	
22	08/26/2024	100	8200	5945	4683	500098	10576.000	
23	08/27/2024	99	8282	5955	4714	499944	10647.000	
24	08/27/2024	96	8558	6171	5171	486948	10656.000	
25	08/27/2024	100	8136	5008	5184	499904	10084.000	
26	08/27/2024	100	7974	5356	4734	500037	10047.000	
27	08/27/2024	100	7981	5222	4490	500002	10023.000	
28	08/27/2024	100	7931	5974	4751	500002	9970.000	
29	08/28/2024	100	7684	5187	4889	500045	10053.000	
30	08/28/2024	100	8080	5512	5503	499973	9945.000	
31	08/29/2024	100	4794	2640	4957	500363	9972.000	
32	08/30/2024	96	7630	5591	4636	500277	9978.000	
33	08/30/2024	98	7910	7549	5008	500745	9966.000	
34	08/31/2024	95	7678	7154	5101	499980	9998.000	
35	08/31/2024	100	4679	2643	4683	500236	9950.000	
36	09/01/2024	97	7887	5348	4732	499934	9955.000	
37	09/01/2024	100	7513	5362	4948	500094	9936.000	
38	09/02/2024	100	7681	5493	4947	500057	9826.000	
39	09/02/2024	100	4538	2639	5195	500699	9897.000	
40	09/02/2024	100	4522	2640	4937	500515	9915.000	
41	09/02/2024	100	7465	5779	4925	500425	9900.000	

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42	09/02/2024	99	7717	6866	5253	500039	9918.000
43	09/03/2024	100	4406	2637	5299	500051	9812.000
44	09/03/2024	97	7464	5399	5035	502717	9876.000
45	09/03/2024	96	7631	6158	4795	501128	9814.000
46	09/03/2024	97	7609	7923	4871	502038	9828.000
47	09/03/2024	100	7487	5942	5079	502243	9842.000
48	09/04/2024	100	7339	5604	5190	499923	9802.000
49	09/04/2024	96	7352	6531	5050	500004	9787.000
50	09/04/2024	97	7492	5638	5067	500390	9782.000
51	09/04/2024	98	7452	5578	5045	500971	9799.000
52	09/04/2024	98	7576	5752	4936	502147	9772.000
53	09/05/2024	99	7172	7401	4923	499998	9732.000
54	09/05/2024	99	7459	5813	5206	500365	9760.000
55	09/05/2024	99	7591	5687	5090	501518	9751.000
56	09/06/2024	100	3976	2638	5668	499947	9750.000
57	09/06/2024	97	7059	5774	4787	500126	9724.000
58	09/06/2024	99	6961	5526	4984	500358	9782.000
59	09/06/2024	100	7011	5634	4880	100020	9756.000
60	09/06/2024	99	6907	5000	4874	100171	9517.000
61	09/07/2024	99	7160	5390	4813	500062	9703.000
62	09/07/2024	99	7001	5800	4958	500446	9659.000
63	09/07/2024	97	6748	6440	4665	500000	9695.000
64	09/08/2024	96	6686	5597	4820	500058	9111.005
65	09/08/2024	99	6772	6133	5068	500393	9668.000
66	09/08/2024	98	6881	6588	4815	500293	9641.000
67	09/08/2024	98	6670	5215	5050	500379	9646.000
68	09/09/2024	99	6663	5320	4684	500060	9636.000

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	08/20/2024
Job End Date:	09/09/2024
State:	West Virginia
County:	Marshall
API Number:	47-051-02378-00-00
Operator Name:	EQT Production
Well Name and Number:	Hudson S-7HM
Latitude:	39.82886
Longitude:	-80.672624
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7056
Total Base Water Volume (gal)*:	28550886.21
Total Base Non Water Volume:	0



Water Source	Percent
--------------	---------

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Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	EQT	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	87.70794	None
Sand (Proppant)	EQT	Proppant					
			Silica Substrate	14808-60-7	100.00000	12.12810	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ALKANES, C12-26-BRANCHED AND LINEAR	90622-53-0	40.00000	0.01604	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ACRYLAMIDE-CHLORIDE SALT OF TRIMETHYLAMMONIO-ETHYL ACRYLATE COPOLYMER	69418-26-4	40.00000	0.01604	None
Clearal 268	ChemStream	Biocide					
			Water	7732-18-5	80.00000	0.00884	None

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StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Water	7732-18-5	15.00000	0.00226	None
Enviro-Syn HCR-7000- WL	Fluid USA, Inc.	Synthetic Acid					
			FLUID-Acid-00001	Proprietary	20.00000	0.00162	None
Clearal 268	ChemStream	Biocide					
			Glutaraldehyde	111-30-8	20.00000	0.00055	None
Enviro-Syn HCR-7000- WL	Fluid USA, Inc.	Synthetic Acid					
			FLUID-Amine-00001	Proprietary	10.00000	0.00041	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ETHOXYLATED ALCOHOLS (C12-16)	68551-12-2	5.00000	0.00025	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor					
			AA/ATBS Co-polymer	9003-05-8	5.00000	0.00002	None
Clearal 268	ChemStream	Biocide					
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00001	None
Clearal 268	ChemStream	Biocide					
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00001	None
Clearal 268	ChemStream	Biocide					
			Ethanol	64-17-5	1.50000	0.00000	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor					
			AA/Maleic Anhydride Co- polymer	9003-04-7	1.00000	0.00000	None

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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**HUDSON S
WELL 7HM
EQT PRODUCTION CO.**

T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°50'00"

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-3-1.1	CONSOLIDATION COAL CO. & MURRAY ENERGY	5.00
9-3-1.2	MARSHALL COUNTY COAL	1.00
9-3-2.1	JAMES & GINGER REGIEC	0.940
9-3-2.2	JOHN W. & RACHEL A. HOLPP	0.483
9-3-2.3	STEPHEN W. JOHNSON, III	0.591
9-3-2.4	JOHN W. & RACHEL A. HOLPP	0.618
9-3-2.6	RAYMOND & CINDY WHITE	0.619
9-3-4.2	GRANT M. & MALISSA D. CARTER	0.720
9-3-4.3	JOHN & RACHEL HOLPP	0.870
9-3-4.6	DAVID E. WEST, ET UX	12.035
9-3-6.1	TRAVIS POSTLETHWAIT	1.0468
9-3-18.1	LLOYD A. BEE, ET UX	1.010
9-3-18.2	RAYMOND E. & CINDY L. WHITE	2.103
9-3-18.3	RAYMOND E. & CINDY L. WHITE	0.086
9-8-4.1	CNX LAND RESOURCES LLC	1.04
9-9-14.2	NAUVOO CEMETERY ASSOCIATION INC.	0.292
9-9-15	CHURCH OF LATTER DAY SAINTS TRUSTEES	LOT (NO AC.)
9-9-18	VIRGINIA MCVLAIN ESTATE & THE WHIPKEY TRUST	LOT (NO AC.)
N/A	WV DOH	2.84
N/A	SCHOOL LOT	LOT (NO AC.)
9-8-4	DONALD M. & THERESA L. HARRIDS	3.183
9-8-3	CHURCH OF CHRIST & CEMETERY	2.245
9-8-2	CNX LAND LLC	6000 SQ.FT.
9-5-11.1	MARK H. FOX	2.619

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'83 S.P.C.(FT)	N. 486,162.43	E. 1,639,182.25
NAD'83 GEO.	LAT-(N) 39.828860	LONG-(W) 80.672624
NAD'83 UTM (M)	N. 4,408,813.90	E. 528,014.38

LANDING POINT

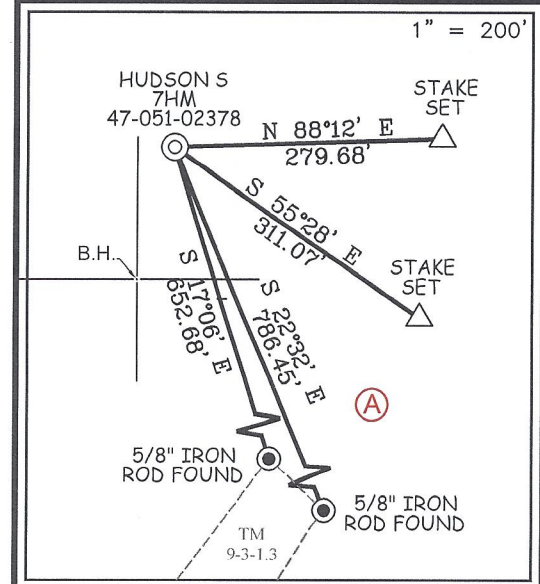
NAD'83 S.P.C.(FT)	N. 486,672.6	E. 1,640,665.0
NAD'83 GEO.	LAT-(N) 39.830313	LONG-(W) 80.667368
NAD'83 UTM (M)	N. 4,408,976.9	E. 528,463.5

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 474,757.5	E. 1,647,943.5
NAD'83 GEO.	LAT-(N) 39.797862	LONG-(W) 80.640915
NAD'83 UTM (M)	N. 4,405,383.9	E. 530,741.6

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REFERENCES

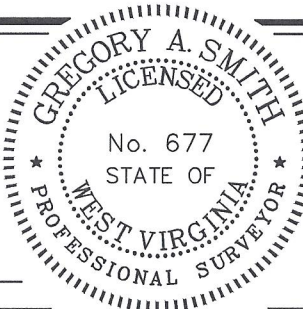


NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS OR DWELLINGS ≥ 2500 SQ. FT. WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slswv.com



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 REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 Gregory A. Smith

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE OCTOBER 18, 20 23
REVISED _____, 20 ____
OPERATORS WELL NO. HUDSON S-7HM
API WELL NO. 47 - 051 - 02378
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8911EQT-P7HM-231018.dwg
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

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

LOCATION: ELEVATION 1,346.26' WATERSHED GRAVE CREEK (HUC 10)
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER CNX LAND LLC ACREAGE 106.935±
ROYALTY OWNER CHARLENE L. BAKER, ET AL ACREAGE 106.935±
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
ESTIMATED DEPTH TVD: 6,782' / TMD: 21,567

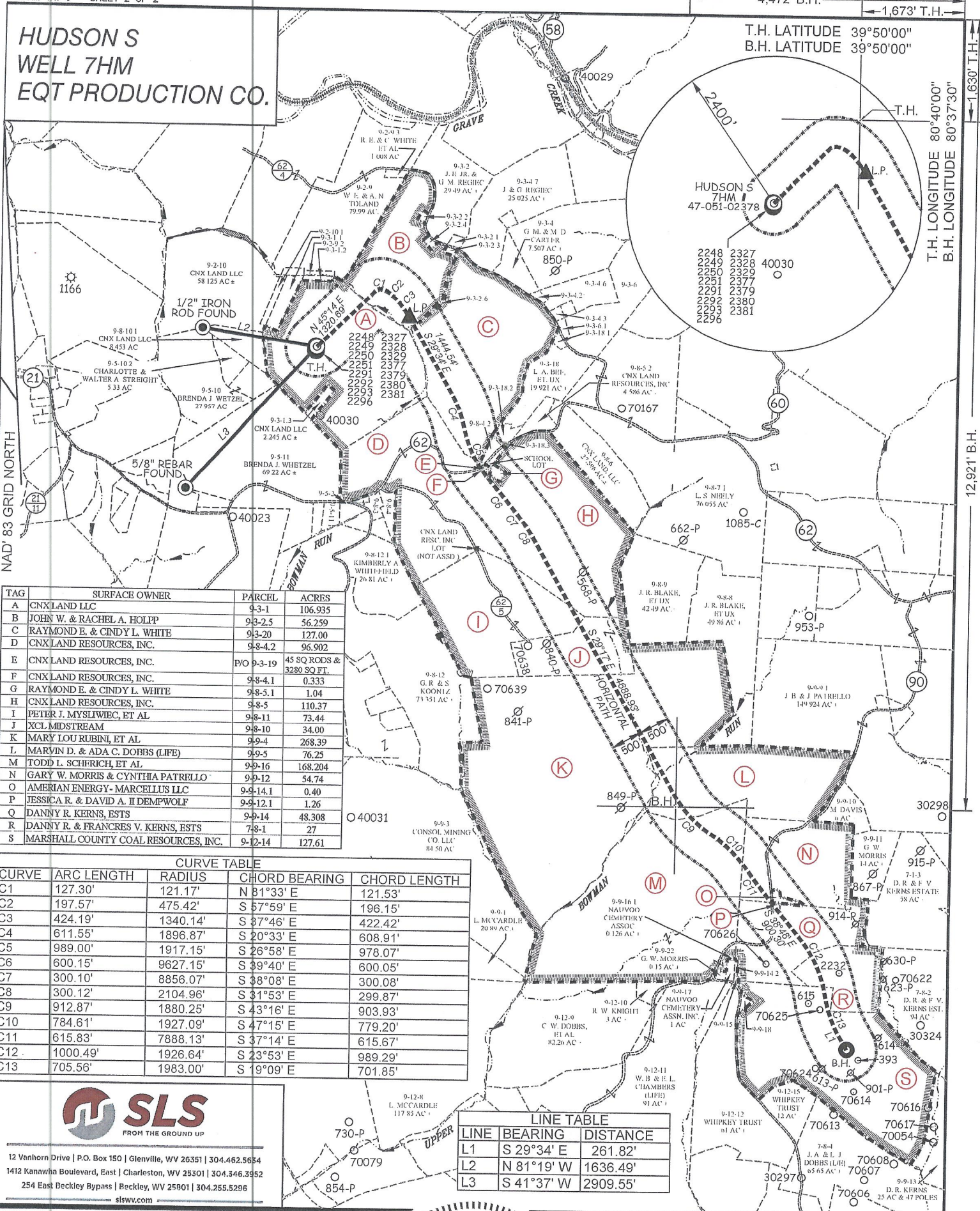
WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT JOSEPH C. MALLOW
ADDRESS 400 WOODCLIFF DRIVE ADDRESS 427 MIDSTATE DRIVE
CANONSBURG, PA 15317 CLARKSBURG, WV 26301

COUNTY NAME
PERMIT

**HUDSON S
WELL 7HM
EQT PRODUCTION CO.**

T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°50'00"

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"



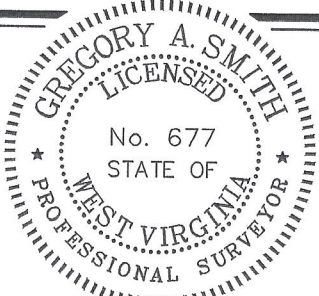
TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND LLC	9-3-1	106.935
B	JOHN W. & RACHEL A. HOLIP	9-3-2.5	56.259
C	RAYMOND E. & CINDY L. WHITE	9-3-20	127.00
D	CNX LAND RESOURCES, INC.	9-8-4.2	96.902
E	CNX LAND RESOURCES, INC.	P/O 9-3-19	45 SQ RODS & 3280 SQ FT.
F	CNX LAND RESOURCES, INC.	9-8-4.1	0.333
G	RAYMOND E. & CINDY L. WHITE	9-8-5.1	1.04
H	CNX LAND RESOURCES, INC.	9-8-5	110.37
I	PETER J. MYSLIWEC, ET AL	9-8-11	73.44
J	XCL MIDSTREAM	9-8-10	34.00
K	MARY LOU RUBINI, ET AL	9-9-4	268.39
L	MARVIN D. & ADA C. DOBBS (LIFE)	9-9-5	76.25
M	TODD L. SCHERICH, ET AL	9-9-16	168.204
N	GARY W. MORRIS & CYNTHIA PATRILLO	9-9-12	54.74
O	AMERICAN ENERGY- MARCELLUS LLC	9-9-14.1	0.40
P	JESSICA R. & DAVID A. II DEMPWOLF	9-9-12.1	1.26
Q	DANNY R. KERNS, ESTS	9-9-14	48.308
R	DANNY R. & FRANCRES V. KERNS, ESTS	7-8-1	27
S	MARSHALL COUNTY COAL RESOURCES, INC.	9-12-14	127.61

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	127.30'	121.17'	N 81°33' E	121.53'
C2	197.57'	475.42'	S 57°59' E	196.15'
C3	424.19'	1340.14'	S 37°46' E	422.42'
C4	611.55'	1896.87'	S 20°33' E	608.91'
C5	989.00'	1917.15'	S 26°58' E	978.07'
C6	600.15'	9627.15'	S 39°40' E	600.05'
C7	300.10'	8856.07'	S 38°08' E	300.08'
C8	300.12'	2104.96'	S 31°53' E	299.87'
C9	912.87'	1880.25'	S 43°16' E	903.93'
C10	784.61'	1927.09'	S 47°15' E	779.20'
C11	615.83'	7888.13'	S 37°14' E	615.67'
C12	1000.49'	1926.64'	S 23°53' E	989.29'
C13	705.56'	1983.00'	S 19°09' E	701.85'

SLS
FROM THE GROUND UP

12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5654
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slsvw.com

LINE	BEARING	DISTANCE
L1	S 29°34' E	261.82'
L2	N 81°19' W	1636.49'
L3	S 41°37' W	2909.55'



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

P.S. 677 *Gregory A. Smith*

LEGEND

LEASE LINE	
SURFACE LINE	
WELL LATERAL	
OFFSET LINE	
TIE LINE	
CREEK	
ROAD	
COUNTY ROUTE	
PROPOSED WELL	
EXISTING WELL	
PERMITTED WELL	
TAX MAP-PARCEL	
SURFACE OWNER (SEE TABLE)	
LEASE # (SEE WW-6A1)	

SCALE 1" = 2000' FILE NO. 8911EQT-P7HM-231018.dwg

DATE OCTOBER 18, 2023

REVISED _____, 20____

OPERATORS WELL NO. HUDSON S-7HM

API WELL NO. 47 - 051 - 02378

STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

WELL OPERATOR EQT PRODUCTION COMPANY ADDRESS 400 WOODCLIFF DRIVE CANONSBURG, PA 15317

DESIGNATED AGENT JOSEPH C. MALLOW ADDRESS 427 MIDSTATE DRIVE CLARKSBURG, WV 26301

HUDSON S 7HM EQT PRODUCTION CO. 9-8-5.1



C4

C5

C6

(C)

(D)

(E)

(G)

(F)

49.40'

SCHOOL LOT

9-8-5.1
RAYMOND E. &
CINDY L. WHITE
1.04 AC.±

RECEIVED
Office of Oil and Gas

DEC 23 2024

WV Department of
Environmental Protection

(H)



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296

sllswv.com

SCALE: 1"=200'

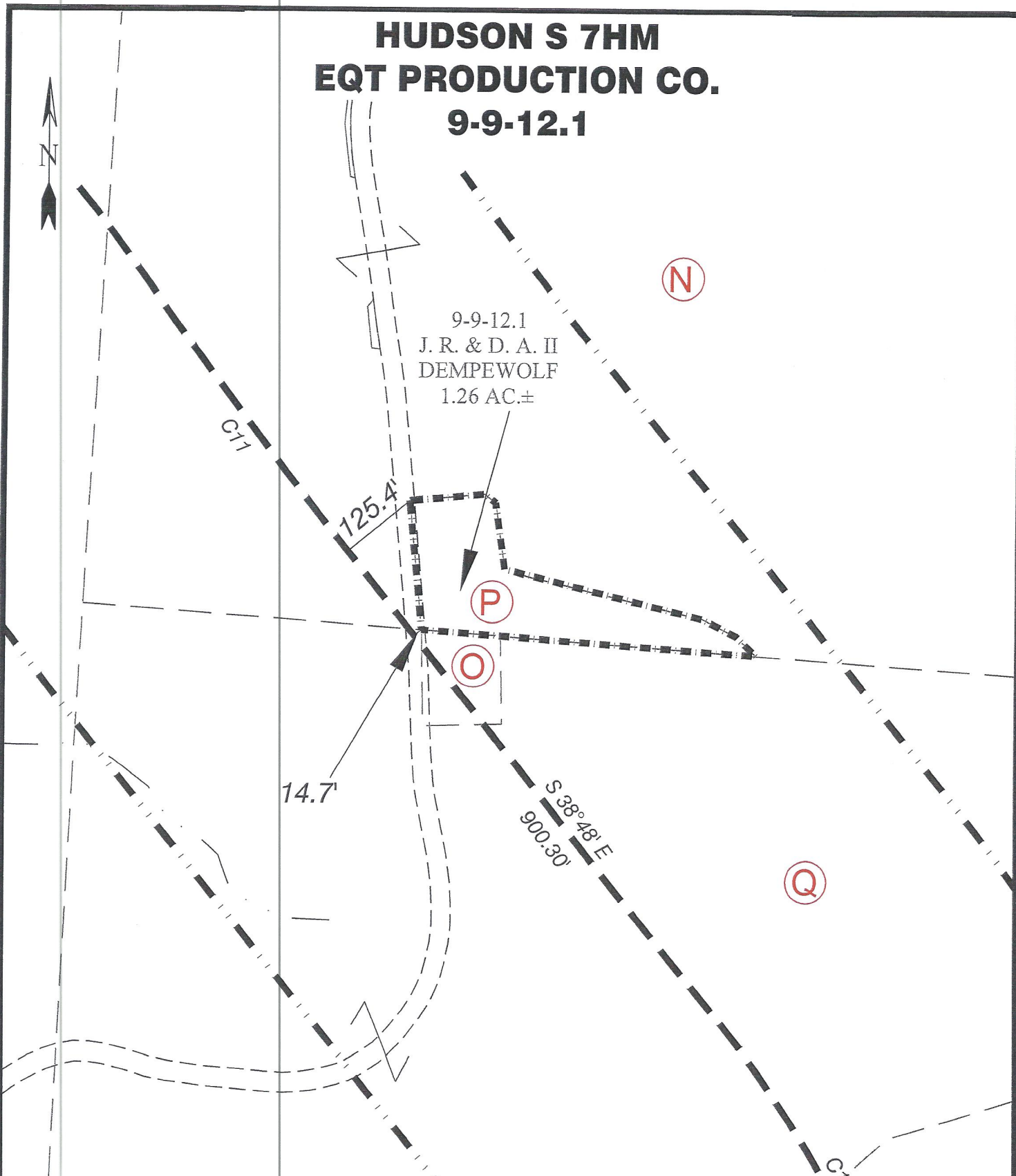
0' 200' 400'



DRAWN BY MRH	FILE NO. 8911	DATE 10-17-23	GADD FILE: 8911EQT-7HM-Addendum mod-231017.DWG
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02/07/2025

HUDSON S 7HM EQT PRODUCTION CO. 9-9-12.1



SCALE: 1"=200'



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 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.345.3952
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DRAWN BY MJH	FILE NO. 8911	DATE 10-17-23	CADD FILE: 8911EQT-7HM-Addendum mcp-231017.DWG
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02/07/2025

**HUDSON S
WELL 7HM
EQT PRODUCTION CO.**

T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°50'00"

T.H. A.D.

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"

12,919' B.H. A.D.

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-3-1.1	CONSOLIDATION COAL CO. & MURRAY ENERGY	5.00
9-3-1.2	MARSHALL COUNTY COAL	1.00
9-3-2.1	JAMES & GINGER REGIEC	0.940
9-3-2.2	JOHN W. & RACHEL A. HOLPP	0.483
9-3-2.3	STEPHEN W. JOHNSON, III	0.591
9-3-2.4	JOHN W. & RACHEL A. HOLPP	0.618
9-3-2.6	RAYMOND & CINDY WHITE	0.619
9-3-4.2	GRANT M. & MALISSA D. CARTER	0.720
9-3-4.3	JOHN & RACHEL HOLPP	0.870
9-3-4.6	DAVID E. WEST, ET UX	12.035
9-3-6.1	TRAVIS POSTLETHWAIT	1.0468
9-3-18.1	LLOYD A. BEE, ET UX	1.010
9-3-18.2	RAYMOND E. & CINDY L. WHITE	2.103
9-3-18.3	RAYMOND E. & CINDY L. WHITE	0.086
9-8-4.1	CNX LAND RESOURCES LLC	1.04
9-9-14.2	NAUVOO CEMETERY ASSOCIATION INC.	0.292
9-9-15	CHURCH OF LATTER DAY SAINTS TRUSTEES	LOT (NO AC.)
9-9-18	VIRGINIA MCLIVAIN ESTATE & THE WHIPKEY TRUST	LOT (NO AC.)
N/A	WV DOH	2.84
N/A	SCHOOL LOT	LOT (NO AC.)
9-8-4	DONALD M. & THERESA L. HARRIDS	3.183
9-8-3	CHURCH OF CHRIST & CEMETERY	2.245
9-8-2	CNX LAND LLC	6000 SQ.FT.
9-5-11.1	MARK H. FOX	2.619

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'83 S.P.C.(FT)	N. 486,162.43	E. 1,639,182.25
NAD'83 GEO.	LAT-(N) 39.828860	LONG-(W) 80.672624
NAD'83 UTM (M)	N. 4,408,813.90	E. 528,014.38

LANDING POINT

NAD'83 S.P.C.(FT)	N. 486,649.0	E. 1,640,665.0
NAD'83 GEO.	LAT-(N) 39.830313	LONG-(W) 80.667368
NAD'83 UTM (M)	N. 4,408,976.9	E. 528,463.5

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 474,757.5	E. 1,647,943.5
NAD'83 GEO.	LAT-(N) 39.797862	LONG-(W) 80.640915
NAD'83 UTM (M)	N. 4,405,383.9	E. 530,741.6

**AS DRILLED COORDINATES
FOR WELL NO. 7HM**

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17)

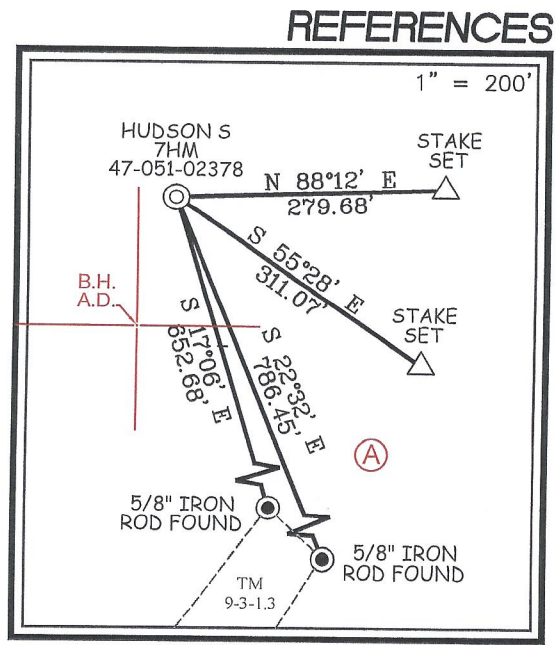
NAD'83 S.P.C.(FT)	N. 486,162.43	E. 1,639,182.25
NAD'83 GEO.	LAT-(N) 39.828860	LONG-(W) 80.672624
NAD'83 UTM (M)	N. 4,408,813.90	E. 528,014.38

LANDING POINT

NAD'83 S.P.C.(FT)	N. 486,649.0	E. 1,640,678.1
NAD'83 GEO.	LAT-(N) 39.830249	LONG-(W) 80.667321
NAD'83 UTM (M)	N. 4,408,969.8	E. 528,467.6

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 474,759.7	E. 1,647,944.6
NAD'83 GEO.	LAT-(N) 39.797868	LONG-(W) 80.640911
NAD'83 UTM (M)	N. 4,405,384.6	E. 530,741.9



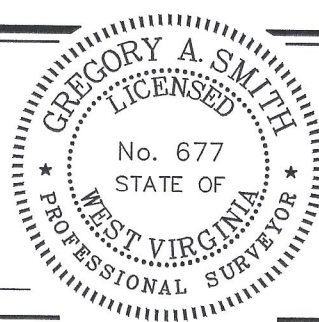
NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS OR DWELLINGS ≥ 2500 SQ. FT. WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.
- WELL PLAT UPDATED TO SHOW AS-DRILLED PATH.
- AS-DRILLED INFORMATION PROVIDED BY EQT PRODUCTION CO.



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.3634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5295
slsvv.com

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.



P.S. 677 Gregory A. Smith

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE FEBRUARY 12, 20 24
REVISED _____, 20 ____
OPERATORS WELL NO. HUDSON S-7HM
API WELL NO. 47 - 051 - 02378
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8911EQT-P7HMAD.dwg
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

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

LOCATION: ELEVATION 1,346.26' WATERSHED GRAVE CREEK (HUC 10)
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER CNX LAND LLC ACREAGE 106.935±
ROYALTY OWNER CHARLENE L. BAKER, ET AL ACREAGE ~~21.975±~~ **02/07/2025**

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___
PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD: 6,782' / TMD: 21,529

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT JOSEPH C. MALLOW
ADDRESS 400 WOODCLIFF DRIVE ADDRESS 427 MIDSTATE DRIVE
CANONSBURG, PA 15317 CLARKSBURG, WV 26301

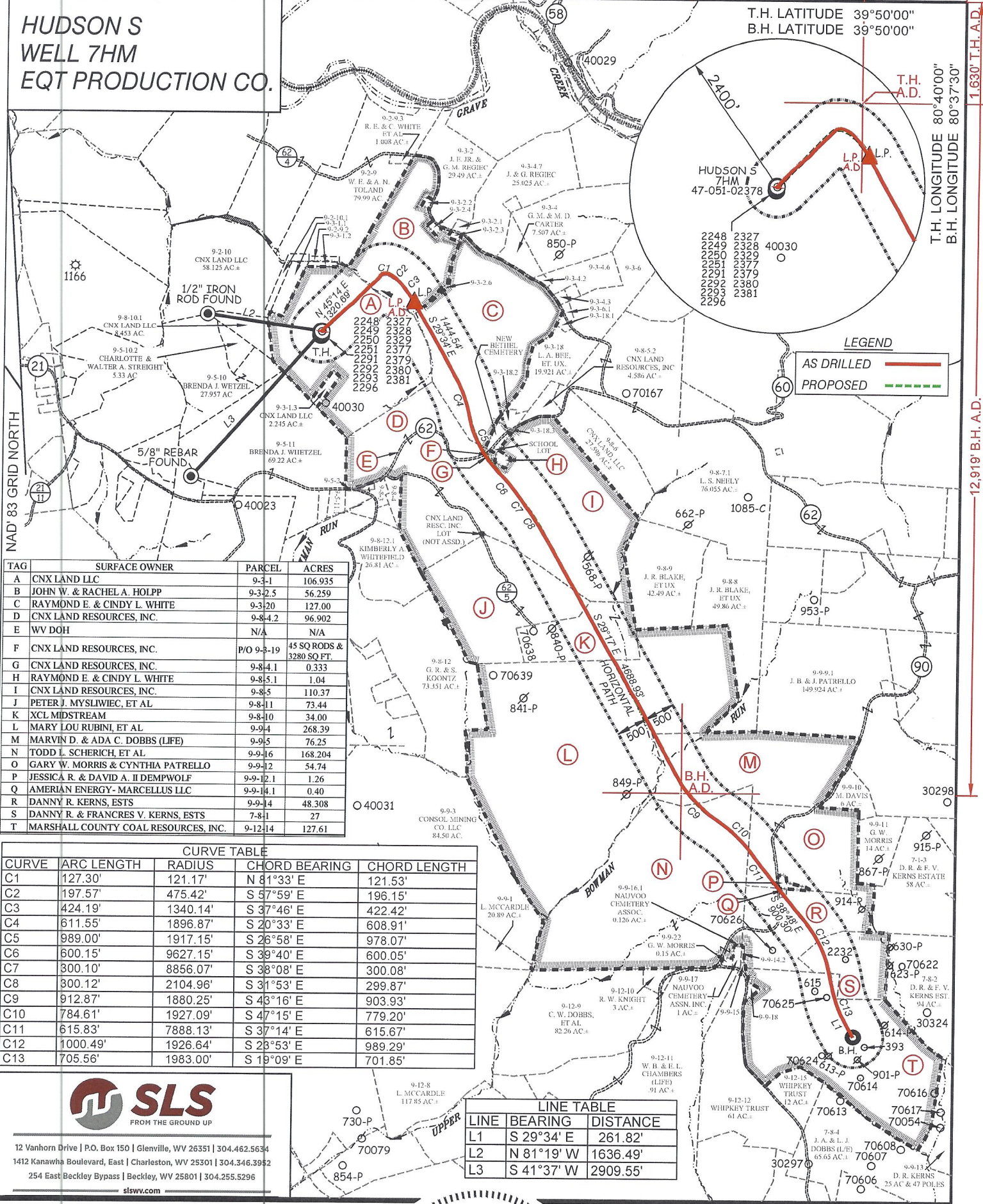
COUNTY NAME PERMIT

**HUDSON S
WELL 7HM
EQT PRODUCTION CO.**

4,471' B.H. A.D. | 1,673' T.H. A.D.

T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°50'00"

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"



TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND LLC	9-3-1	106.935
B	JOHN W. & RACHELA A. HOLPP	9-3-2.5	56.259
C	RAYMOND E. & CINDY L. WHITE	9-3-20	127.00
D	CNX LAND RESOURCES, INC.	9-8-4.2	96.902
E	WV DOH	N/A	N/A
F	CNX LAND RESOURCES, INC.	P/O 9-3-19	45 SQ RODS & 3280 SQ FT.
G	CNX LAND RESOURCES, INC.	9-8-4.1	0.333
H	RAYMOND E. & CINDY L. WHITE	9-8-5.1	1.04
I	CNX LAND RESOURCES, INC.	9-8-5	110.37
J	PETER J. MYSLIWIC, ET AL	9-8-11	73.44
K	XCL MIDSTREAM	9-8-10	34.00
L	MARY LOU RUBINI, ET AL	9-9-4	268.39
M	MARVIN D. & ADA C. DOBBS (LIFE)	9-9-5	76.25
N	TODD L. SCHERICH, ET AL	9-9-16	168.204
O	GARY W. MORRIS & CYNTHIA PATRELLO	9-9-12	54.74
P	JESSICA R. & DAVID A. II DEMPWOLF	9-9-12.1	1.26
Q	AMERICAN ENERGY- MARCELLUS LLC	9-9-14.1	0.40
R	DANNY R. KERNS, ESTS	9-9-4	48.308
S	DANNY R. & FRANCIS V. KERNS, ESTS	7-8-1	27
T	MARSHALL COUNTY COAL RESOURCES, INC.	9-12-14	127.61

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	127.30'	121.17'	N 81°33' E	121.53'
C2	197.57'	475.42'	S 57°59' E	196.15'
C3	424.19'	1340.14'	S 37°46' E	422.42'
C4	611.55'	1896.87'	S 20°33' E	608.91'
C5	989.00'	1917.15'	S 26°58' E	978.07'
C6	600.15'	9627.15'	S 39°40' E	600.05'
C7	300.10'	8856.07'	S 38°08' E	300.08'
C8	300.12'	2104.96'	S 31°53' E	299.87'
C9	912.87'	1880.25'	S 43°16' E	903.93'
C10	784.61'	1927.09'	S 47°15' E	779.20'
C11	615.83'	7888.13'	S 37°14' E	615.67'
C12	1000.49'	1926.64'	S 23°53' E	989.29'
C13	705.56'	1983.00'	S 19°09' E	701.85'

LINE	BEARING	DISTANCE
L1	S 29°34' E	261.82'
L2	N 81°19' W	1636.49'
L3	S 41°37' W	2909.55'



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1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slswv.com



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

P.S. 677 *Gregory A. Smith*

LEGEND	
LEASE LINE	---
SURFACE LINE	---
WELL LATERAL	---
OFFSET LINE	---
TIE LINE	---
CREEK	---
ROAD	---
COUNTY ROUTE	---
PROPOSED WELL	○
EXISTING WELL	○
PERMITTED WELL	○
TAX MAP-PARCEL	00-00
SURFACE OWNER (SEE TABLE)	(A)
LEASE # (SEE WW-6A1)	

SCALE 1" = 2000' FILE NO. 8911EQT-P7HMAD.dwg
DATE FEBRUARY 12, 20 24
REVISED _____, 20 ____
OPERATORS WELL NO. HUDSON S-7HM
API WELL NO. 47 — 051 — 02378
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT JOSEPH C. MALLOW
ADDRESS 400 WOODCLIFF DRIVE ADDRESS 427 MIDSTATE DRIVE
CANONSBURG, PA 15317 CLARKSBURG, WV 26301

COUNTY NAME PERMIT

02/07/2025

**HUDSON S
WELL 7HM
EQT PRODUCTION CO.**

T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°50'00"

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°37'30"

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-2-9.2	CONSOLIDATION COAL CO.	1.00
9-2-10.1	CONSOLIDATION COAL CO.	2.00
9-3-1.1	CONSOLIDATION COAL CO.	5.00
9-3-1.2	MARSHALL COUNTY COAL	1.00
9-3-2.1	JAMES & GINGER REGIEC	0.940
9-3-2.2	JOHN W. & RACHEL A. HOLPP	0.483
9-3-2.3	STEPHEN W. JOHNSON, III	0.591
9-3-2.4	JOHN W. & RACHEL A. HOLPP	0.618
9-3-2.6	RAYMOND & CINDY WHITE	0.619
9-3-4.2	GRANT M. & MALISSA D. CARTER	0.720
9-3-4.3	JOHN & RACHEL HOLPP	0.870
9-3-4.6	DAVID E. WEST, ET UX	12.035
9-3-6.1	TRAVIS POSTLETHWAIT	1.0468
9-3-18.1	JAMES & GINGER REGIEC	1.010
9-3-18.2	RAYMOND E. & CINDY L. WHITE	2.103
9-3-18.3	RAYMOND E. & CINDY L. WHITE	0.086
P/O 9-3-19	RAYMOND E. & CINDY L. WHITE (PARCELS 2 & 3)	45 SQ RODS & 3280 SQ FT.
9-8-4.1	CNX LAND LLC	1.04
9-8-5.1	RAYMOND E. & CINDY L. WHITE	0.333
9-9-14.2	NAUVOO CEMETERY ASSOCIATION INC.	0.292
9-9-15	TRUSTEES OF THE REORGANIZED CHURCH OF LATTER DAY SAINTS	LOT (NO AC.)
9-9-18	VIRGINIA MCILVAIN ESTATE & THE WHIPKEY TRUST	LOT (NO AC.)
N/A	WV DOH	2.84

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'83 S.P.C.(FT) N. 486,162.43 E. 1,639,182.25
 NAD'83 GEO. LAT-(N) 39.828860 LONG-(W) 80.672624
 NAD'83 UTM (M) N. 4,408,813.90 E. 528,014.38

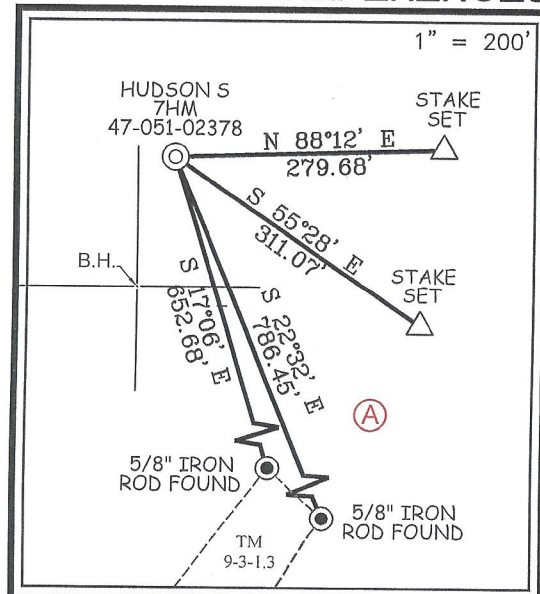
LANDING POINT

NAD'83 S.P.C.(FT) N. 486,672.6 E. 1,640,665.0
 NAD'83 GEO. LAT-(N) 39.830313 LONG-(W) 80.667368
 NAD'83 UTM (M) N. 4,408,976.9 E. 528,463.5

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 474,757.5 E. 1,647,943.5
 NAD'83 GEO. LAT-(N) 39.797862 LONG-(W) 80.640915
 NAD'83 UTM (M) N. 4,405,383.9 E. 530,741.6

REFERENCES



NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS OR DWELLINGS ≥ 2500 SQ. FT. WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.

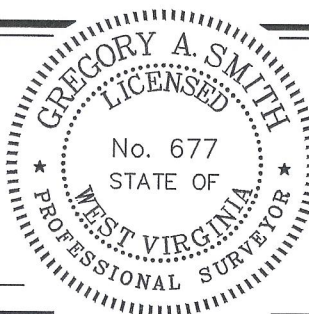


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I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S.
677

Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE FEBRUARY 22, 20 21
 REVISED SEPTEMBER 18, 20 23
 OPERATORS WELL NO. HUDSON S-7HM
 API WELL NO. 47 - 051 - 02378
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8911EQT-P7HM.dwg
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS



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

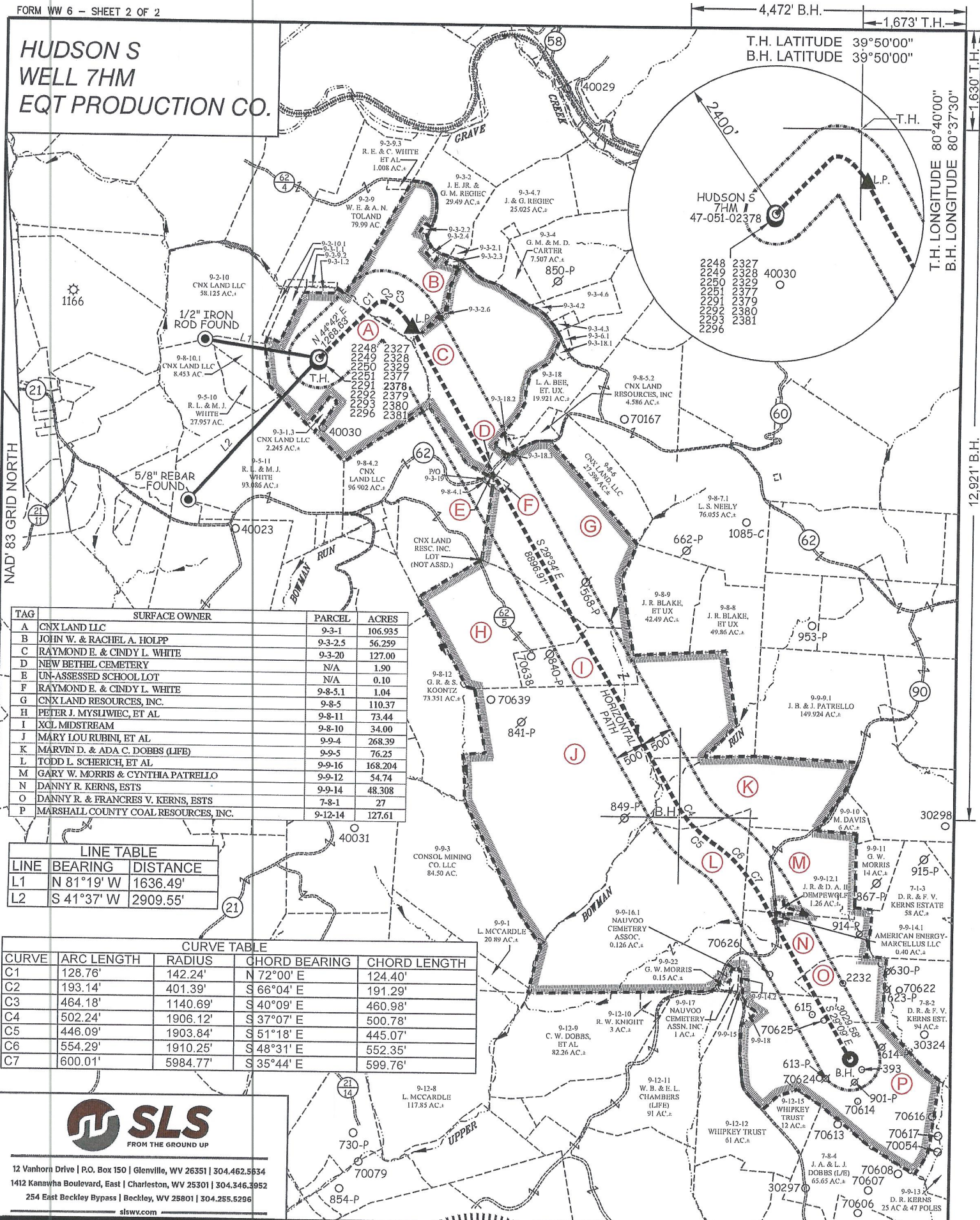
LOCATION:
 ELEVATION 1,346.26 WATERSHED GRAVE CREEK (HUC 10)
 DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'
 SURFACE OWNER CNX LAND LLC ACREAGE 106.935±
 ROYALTY OWNER CHARLENE L. BAKER, ET AL. ACREAGE 0207/2025
 PROPOSED WORK:
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
 ESTIMATED DEPTH TVD: 6,782' / TMD: 21,529

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT JOSEPH C. MALLOW
 ADDRESS 400 WOODCLIFF DRIVE ADDRESS 427 MIDSTATE DRIVE
CANNONBURG, PA 15317 CLARKSBURG, WV 26301

COUNTY NAME
PERMIT

**HUDSON S
WELL 7HM
EQT PRODUCTION CO.**

T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°50'00"



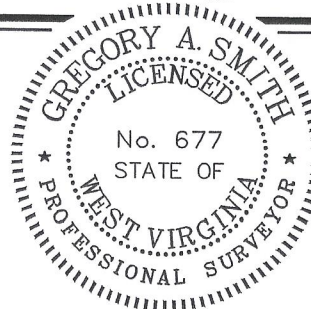
TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND LLC	9-3-1	106.935
B	JOHN W. & RACHEL A. HOLPP	9-3-2.5	56.259
C	RAYMOND E. & CINDY L. WHITE	9-3-20	127.00
D	NEW BETHEL CEMETERY	N/A	1.90
E	UN-ASSESSED SCHOOL LOT	N/A	0.10
F	RAYMOND E. & CINDY L. WHITE	9-8-5.1	1.04
G	CNX LAND RESOURCES, INC.	9-8-5	110.37
H	PETER J. MYSLIWEC, ET AL	9-8-11	73.44
I	XCL MIDSTREAM	9-8-10	34.00
J	MARY LOU RUBINI, ET AL	9-9-4	268.39
K	MARVIN D. & ADA C. DOBBS (LIFE)	9-9-5	76.25
L	TODD L. SCHERICH, ET AL	9-9-16	168.204
M	GARY W. MORRIS & CYNTHIA PATRELLO	9-9-12	54.74
N	DANNY R. KERNS, ESTS	9-9-14	48.308
O	DANNY R. & FRANCIS V. KERNS, ESTS	7-8-1	27
P	MARSHALL COUNTY COAL RESOURCES, INC.	9-12-14	127.61

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 81°19' W	1636.49'
L2	S 41°37' W	2909.55'

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	128.76'	142.24'	N 72°00' E	124.40'
C2	193.14'	401.39'	S 66°04' E	191.29'
C3	464.18'	1140.69'	S 40°09' E	460.98'
C4	502.24'	1906.12'	S 37°07' E	500.78'
C5	446.09'	1903.84'	S 51°18' E	445.07'
C6	554.29'	1910.25'	S 48°31' E	552.35'
C7	600.01'	5984.77'	S 35°44' E	599.76'



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 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 slsww.com



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

P.S. 677 *Gregory A. Smith*

LEGEND

- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- TAX MAP-PARCEL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE WW-6A1)

SCALE 1" = 2000' FILE NO. 8911EQT-P7HM.dwg

DATE FEBRUARY 22, 20 21
 REVISED SEPTEMBER 18, 20 23
 OPERATORS WELL NO. HUDSON S-7HM
 API WELL NO. 47-051-02378
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS



WELL OPERATOR EQT PRODUCTION COMPANY
 ADDRESS 400 WOODCLIFF DRIVE
 CANNONSBURG, PA 15317

DESIGNATED AGENT JOSEPH C. MALLOW
 ADDRESS 427 MIDSTATE DRIVE
 CLARKSBURG, WV 26301

COUNTY NAME
 PERMIT