

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

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

API 47 - 051 - 02380 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-9HM (L017751)
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 4,408,817.98 Easting 528,008.29
Landing Point of Curve Northing 4,409,658.0 Easting 528,768.1
Bottom Hole Northing 4,406,802.7 Easting 530,451.3

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 14.02 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 09/24/2022 Date drilling ceased 02/17/2024
Date completion activities began 08/21/2024 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 1737' 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
[Signature]
1/21/2025

API 47-051 - 02380

Farm name CNX LAND, LLC

Well number Hudson S-9HM (L017751)

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	38"	30"	120'	NEW	118.65#	N/A	Y
Surface	17-1/2"	13-3/8"	1317'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2421'	NEW	J-55 36#	N/A	Y
Intermediate 2							Office of Oil and Gas
Intermediate 3							DEC 23 2024
Production	8-3/4", 8-1/2"	6"	19,692'	NEW	P-110 24#	N/A	N
Tubing							WV Department of Environmental Protection
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 1075' GL, which is greater than 500' TVD above the producing formation. No issues during cement job.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (GL)	WOC (hrs)
Conductor	CLASS A	450	15.6	1.21	544	0	8+
Surface	CLASS L	1398	16.0	1.09	1524	0	8
Coal							
Intermediate 1	CLASS A	871	15.6	1.18	1028	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3226	15.0	1.18	3807	1075'	8+
Tubing							

Drillers TD (ft) 19,715' Loggers TD (ft) N/A
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure _____

Kick off depth (ft) 1437'

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 8928' AND EVERY JOINT TO 1782' _____

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 _____

API 47- 051 - 02380 Farm name CNX LAND, LLC Well number Hudson S-9HM (L017751)

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-9HM (L017751) Final Formations API# 47-051-02380

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	977	977
Sand/Shale	977	977	2,049	2,045
Big Lime	2,049	2,045	2,303	2,294
Big Injun	2,303	2,294	2,359	2,349
Sand/Shale	2,359	2,349	2,633	2,616
Berea	2,633	2,616	3,070	3,035
Sand/Shale	3,070	3,035	3,128	3,088
Gordon	3,128	3,088	3,197	3,151
Sand/Shale	3,197	3,151	3,338	3,277
Bayard	3,338	3,277	3,618	3,523
Sand/Shale	3,618	3,523	5,460	4,946
Alexander	5,460	4,946	5,908	5,288
Elks	5,908	5,288	7,591	6,410
Sonyea	7,591	6,410	7,853	6,514
Middlesex	7,853	6,514	7,929	6,545
Genesee	7,929	6,545	8,064	6,598
Geneseo	8,064	6,598	8,118	6,618
Tully	8,118	6,618	8,185	6,643
Hamilton	8,185	6,643	8,521	6,745
Marcellus	8,521	6,745	19,715	7,022

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**HUDSON
WELL S-9HM
EQT PRODUCTION CO.**

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 RESOURCES INC.	1.00
9-3-2.1	JAMES & GINGER REGIEC	0.940
9-3-2.2	JOHN & RACHEL HOLPP	0.483
9-3-2.4	JOHN & RACHEL HOLPP	0.618
9-3-2.3	STEPHEN W. JOHNSON, II	0.591
9-3-4.1	DAVID E. WEST, ET UX	0.986
9-8-6.1	KAYLA E. BRATTON	1.423
9-8-5.2	AMY EVANS & KAREN WHETZAL	4.586
9-3-18.2	RAYMOND E. & CINDY L. WHITE	2.103
9-3-18.3	RAYMOND E. & CINDY L. WHITE	0.086
N/A	NEW BETHEL CEMETERY	1.90
9-3-2.6	RAYMOND E. & CINDY L. WHITE	0.61
9-5-9	BRENDA WHETZEL	20

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

NAD'83 S.P.C.(FT)	N. 486,176.17	E. 1,639,162.48
NAD'83 GEO.	LAT.-(N) 39.828897	LONG.-(W) 80.672695
NAD'83 UTM (M)	N. 4,408,817.98	E. 528,008.29

LANDING POINT

NAD'83 S.P.C.(FT)	N. 488,887.6	E. 1,641,708.0
NAD'83 GEO.	LAT.-(N) 39.836431	LONG.-(W) 80.663757
NAD'83 UTM (M)	N. 4,409,657.0	E. 528,770.0

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 479,431.0	E. 1,647,071.8
NAD'83 GEO.	LAT.-(N) 39.810661	LONG.-(W) 80.644229
NAD'83 UTM (M)	N. 4,406,803.3	E. 530,452.3

**AS DRILLED COORDINATES
FOR WELL NO. 9HM**

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

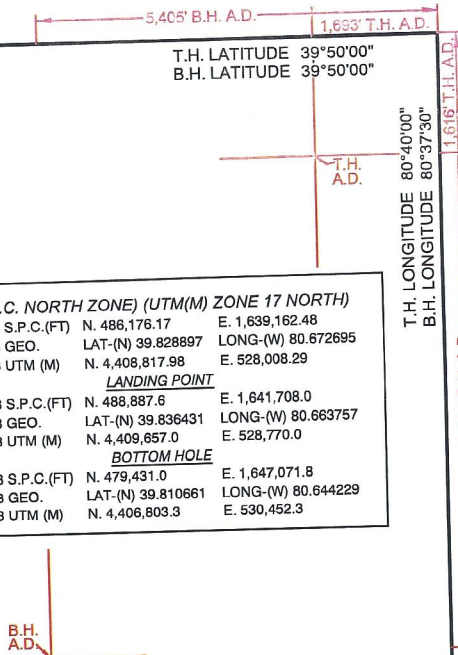
NAD'83 S.P.C.(FT)	N. 486,176.17	E. 1,639,162.48
NAD'83 GEO.	LAT.-(N) 39.828897	LONG.-(W) 80.672695
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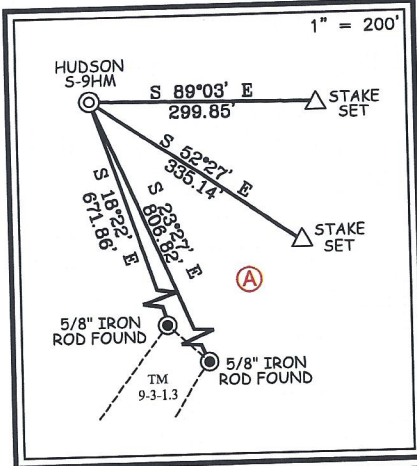
NAD'83 S.P.C.(FT)	N. 488,890.9	E. 1,641,701.9
NAD'83 GEO.	LAT.-(N) 39.836440	LONG.-(W) 80.663779
NAD'83 UTM (M)	N. 4,409,658.0	E. 528,768.1

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 479,429.1	E. 1,647,068.6
NAD'83 GEO.	LAT.-(N) 39.810665	LONG.-(W) 80.644240
NAD'83 UTM (M)	N. 4,406,802.7	E. 530,451.3



REFERENCES



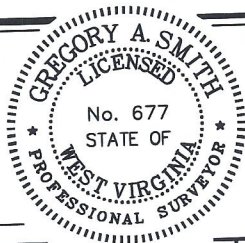
NOTES ON SURVEY

- 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'.
- TAX MAP LOCATION FOR 9-5-9 & 9-5-10 IS INCORRECT. 9-5-9'S DEED CALLS FOR BEING A RESERVATION OF 20 ACRES LYING ON THE NORTHEAST SIDE OF ROAD. THEREFORE MAKING THE ACREAGE ASSESSMENT INCORRECT DUE TO THE OUT SALES OF 9-5-10.1 AND 9-5-10.2.
- WELL PLAT UPDATED TO SHOW AS-DRILLED PATH.
- AS-DRILLED INFORMATION PROVIDED BY EQT PRODUCTION CO.

12 Vanborn Drive | P.O. Box 150 | Glenview, WV 26351 | 304-462-5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304-346-3952
254 East Beckley Bypass | Beckley, WV 26501 | 304-255-5296
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 23, 20 24

REVISED _____, 20 ____

OPERATORS WELL NO. HUDSON S-9HM

API WELL NO. **47 - 051 - 02380**

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8911-EQT-9HMAD.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 STONE HILL MINERALS HOLDINGS, LLC, 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: 19,836

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT JOSEPH C. MALLOW

ADDRESS 400 WOODCLIFF DRIVE ADDRESS 427 MIDSTATE DRIVE

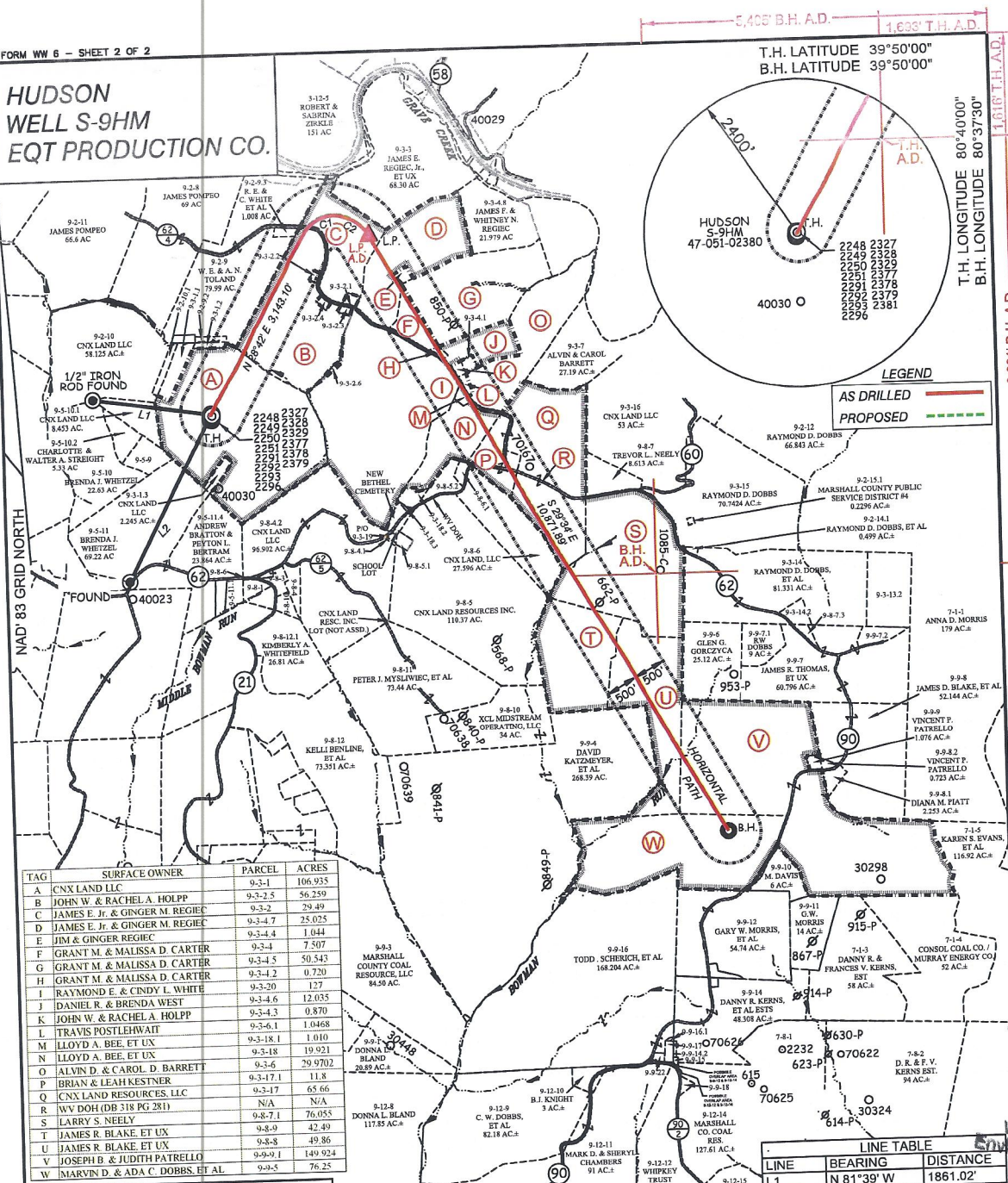
CANONSBURG, PA 15317 CLARKSBURG, WV 26301

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02107/2025

**HUDSON WELL S-9HM
EQT PRODUCTION CO.**



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

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

LEGEND
AS DRILLED
PROPOSED

TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND LLC	9-3-1	106.935
B	JOHN W. & RACHEL A. HOLPP	9-3-2.5	36.250
C	JAMES E. JR. & GINGER M. REGIEC	9-3-2	29.49
D	JAMES E. JR. & GINGER M. REGIEC	9-3-4.7	25.025
E	JIM & GINGER REGIEC	9-3-4	1.044
F	GRANT M. & MALISSA D. CARTER	9-3-4.5	50.543
G	GRANT M. & MALISSA D. CARTER	9-3-4.2	0.720
H	GRANT M. & MALISSA D. CARTER	9-3-20	127
I	RAYMOND E. & CINDY L. WHITE	9-3-4.6	12.035
J	DANIEL R. & BRENDA J. WHITE	9-3-4.3	0.870
K	JOHN W. & RACHEL A. HOLPP	9-3-6.1	1.0468
L	TRAVIS POSTLEWAT	9-3-18.1	1.010
M	LLOYD A. BEE, ET UX	9-5-18	19.921
N	LLOYD A. BEE, ET UX	9-3-6	29.9702
O	ALVIN D. & CAROL D. BARRETT	9-3-17.1	11.8
P	BRIAN & LEAH KESTNER	9-3-17	11.8
Q	CNX LAND RESOURCES, LLC	9-3-17	65.66
R	WV DOH (DB 318 PG 281)	N/A	N/A
S	LARRY S. NEELY	9-8-7.1	76.055
T	JAMES R. BLAKE, ET UX	9-8-9	42.49
U	JAMES R. BLAKE, ET UX	9-8-5	49.36
V	JAMES R. BLAKE, ET UX	9-9-9.1	149.924
W	JOSEPH B. & JUDITH PATRELLO	9-9-5	76.25
X	MARVIN D. & ADA C. DOBBS, ET AL		

LINE	BEARING	DISTANCE
L1	N 81°39' W	1861.02'
L2	S 27°26' W	2891.74'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	712.89'	547.80'	N 65°13' E	663.64'
C2	557.36'	660.44'	S 53°15' E	540.97'

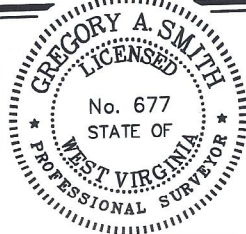
SLS
FROM THE GROUND UP

12 Vanhorn Drive | P.O. Box 150 | Glenview, WV 26351 | 304.462.9634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.348.3952
254 East Beckley Bypass | Beckley, WV 26801 | 304.255.2996
sllw.com

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
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NAD83 S.P.C.(FT) N. 479,431.0 E. 1,647,071.8
NAD83 GEO. LAT-(N) 39.810661 LONG-(W) 80.644229
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(+) 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. 8911-EQT-S9HM.dwg

DATE FEBRUARY 23, 2024

REVISED

OPERATORS WELL NO. HUDSON S-9HM

API WELL 47-051-02380

NO. 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** **02/07/2025**

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Perforation Data

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Stage No.	Perforation Date	Stage Perforated From TMD Ft.	Stage Perforated To TMD Ft.	# of Perforations/Stage	Formation(s)
2	08/21/2024	19611	19431	40	Marcellus
3	08/21/2024	19412	19233	40	Marcellus
4	08/21/2024	19214	19034	40	Marcellus
5	08/22/2024	19015	18836	40	Marcellus
6	08/22/2024	18817	18637	40	Marcellus
7	08/22/2024	18618	18439	40	Marcellus
8	08/23/2024	18420	18240	40	Marcellus
9	08/23/2024	18221	18042	40	Marcellus
10	08/23/2024	18023	17843	40	Marcellus
11	08/24/2024	17824	17645	40	Marcellus
12	08/24/2024	17626	17446	40	Marcellus
13	08/24/2024	17427	17248	40	Marcellus
14	08/24/2024	17229	17049	40	Marcellus
15	08/25/2024	17030	16851	40	Marcellus
16	08/25/2024	16832	16652	40	Marcellus
17	08/25/2024	16633	16454	40	Marcellus
18	08/26/2024	16435	16255	40	Marcellus
19	08/26/2024	16236	16057	40	Marcellus
20	08/26/2024	16038	15858	40	Marcellus
21	08/27/2024	15839	15660	40	Marcellus
22	08/27/2024	15641	15461	40	Marcellus
23	08/28/2024	15442	15263	40	Marcellus
24	08/28/2024	15244	15064	40	Marcellus
25	08/29/2024	15045	14866	40	Marcellus
26	08/29/2024	14847	14667	40	Marcellus
27	08/30/2024	14648	14469	40	Marcellus
28	08/30/2024	14450	14270	40	Marcellus
29	08/31/2024	14251	14072	40	Marcellus
30	08/31/2024	14053	13873	40	Marcellus
31	09/01/2024	13854	13675	40	Marcellus
32	09/02/2024	13656	13476	40	Marcellus
33	09/02/2024	13457	13278	40	Marcellus
34	09/02/2024	13259	13079	40	Marcellus
35	09/02/2024	13060	12881	40	Marcellus
36	09/02/2024	12862	12682	40	Marcellus
37	09/03/2024	12663	12484	40	Marcellus
38	09/03/2024	12465	12285	40	Marcellus
39	09/03/2024	12266	12087	40	Marcellus
40	09/03/2024	12068	11888	40	Marcellus
41	09/04/2024	11869	11690	40	Marcellus
42	09/04/2024	11671	11491	40	Marcellus

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43	09/05/2024	11472	11293	40	Marcellus
44	09/05/2024	11274	11094	40	Marcellus
45	09/05/2024	11075	10896	40	Marcellus
46	09/05/2024	10877	10697	40	Marcellus
47	09/06/2024	10678	10499	40	Marcellus
48	09/06/2024	10480	10300	40	Marcellus
49	09/06/2024	10281	10102	40	Marcellus
50	09/07/2024	10083	9903	40	Marcellus
51	09/07/2024	9884	9705	40	Marcellus
52	09/07/2024	9686	9506	40	Marcellus
53	09/07/2024	9487	9308	40	Marcellus
54	09/08/2024	9289	9109	40	Marcellus
55	09/08/2024	9090	8911	40	Marcellus
56	09/08/2024	8892	8712	40	Marcellus
57	09/08/2024	8693	8554	32	Marcellus

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Stimulation Data

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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	82	8827	7053	3822	249950	6610	
2	08/21/2024	100	8176	6431	4428	500316	10198	
3	08/21/2024	100	8313	5833	4650	500000	10104	
4	08/22/2024	100	8144	5593	4597	500000	10078	
5	08/22/2024	99	8608	6435	4359	500035	10039	
6	08/22/2024	67	8963	6377	3916	499932	12580	
7	08/23/2024	98	8485	5960	5073	499933	10061	
8	08/23/2024	97	8390	5933	4408	408942	8949	
9	08/23/2024	99	8595	5730	4883	500009	10625	
10	08/24/2024	100	7662	5166	5079	500009	10734	
11	08/24/2024	100	7751	5821	4784	499986	10032	
12	08/24/2024	100	8280	5668	4944	500000	9987	
13	08/24/2024	98	8500	5209	5061	499981	10604	
14	08/25/2024	100	7844	5469	4937	499959	10487	
15	08/25/2024	100	7771	5546	4944	500064	10651	
16	08/26/2024	99	8500	5173	4968	499988	10494	
17	08/26/2024	96	8529	8227	4404	499948	9971	
18	08/26/2024	100	7519	6023	4758	500024	9911	
19	08/27/2024	100	7843	6288	4448	500027	10418	
20	08/27/2024	100	8153	5207	4861	500096	10023	
21	08/27/2024	96	8593	5950	4428	499947	9918	
22	08/28/2024	100	8198	5154	4946	500006	10158	
23	08/28/2024	100	8233	5566	4949	500051	10479	
24	08/29/2024	95	7779	6349	4725	499945	9926	
25	08/29/2024	98	8023	6057	5206	500343	10919	
26	08/30/2024	65	8427	5694	5003	571169	10056	
27	08/30/2024	100	7850	6136	5838	499973	9948	
28	08/31/2024	100	5379	2669	4769	500566	9875	
29	09/01/2024	99	8083	5227	5183	500014	9857	
30	09/01/2024	100	7792	5674	4703	499918	9814	
31	09/02/2024	100	5282	2672	5088	500142	9867	
32	09/02/2024	100	5259	2675	5241	500641	9829	
33	09/02/2024	97	7671	5773	4924	500642	9835	
34	09/02/2024	100	7584	5385	5185	501061	9827	
35	09/03/2024	99	7966	6472	5104	500050	9905	
36	09/03/2024	97	7865	5869	4806	500367	9754	
37	09/03/2024	97	7844	5918	4842	502737	9807	
38	09/03/2024	99	7759	5591	4861	502169	9817	
39	09/03/2024	90	7381	5827	4881	499925	9722	
40	09/04/2024	97	7345	5568	5136	499960	9729	
41	09/04/2024	97	7452	5671	4971	500971	9799	

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42	09/05/2024	98	7734	5591	4800	502043	9934
43	09/05/2024	97	7764	5721	4612	500360	9720
44	09/05/2024	96	7797	5804	4888	500344	9696
45	09/05/2024	100	7190	5128	5150	500210	9685
46	09/06/2024	100	7027	5351	4966	500131	9707
47	09/06/2024	98	7381	6011	4866	500370	11176
48	09/06/2024	98	7664	5784	4854	499750	9586
49	09/07/2024	100	6880	5332	4579	500147	9689
50	09/07/2024	99	7037	5846	5047	504202	9707
51	09/07/2024	100	6921	5954	4821	500270	9569
52	09/08/2024	100	7000	5609	4797	500056	9621
53	09/08/2024	99	6920	5293	5014	500083	9657
54	09/08/2024	99	6992	5903	4873	500369	9641
55	09/08/2024	100	6701	5444	5896	500430	9616
56	09/09/2024	100	6541	5640	5049	500113	9670
57	09/09/2024	98	6894	5947	4629	400171	7615

02/07/2025

Hydraulic Fracturing Fluid Product Component Information Disclosure



Job Start Date:	08/21/2024
Job End Date:	09/09/2024
State:	West Virginia
County:	Marshall
API Number:	47-051-02380-00-00
Operator Name:	EQT Production
Well Name and Number:	Hudson S-9HM
Latitude:	39.828897
Longitude:	-80.672695
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7050
Total Base Water Volume (gal)*:	23758812
Total Base Non Water Volume:	0

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

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	87.41262	None
Sand (Proppant)	EQT	Proppant					
			Silica Substrate	14808-60-7	100.00000	12.41034	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ALKANES, C12-26-BRANCHED AND LINEAR	90622-53-0	40.00000	0.01741	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ACRYLAMIDE-CHLORIDE SALT OF TRIMETHYLAMMONIO-ETHYL ACRYLATE COPOLYMER	69418-26-4	40.00000	0.02741	None
Clearal 268	ChemStream	Biocide					
			Water	7732-18-5	80.00000	0.00878	None

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StimSTREAM FR 9800	ChemStream	Friction Reducer						
			Water	7732-18-5	15.00000	0.00245	None	
Enviro-Syn HCR-7000-WL	Fluid USA, Inc.	Synthetic Acid						
			FLUID-Acid-00001	Proprietary	20.00000	0.00181	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	0.00045	None	
StimSTREAM FR 9800	ChemStream	Friction Reducer						
			ETHOXYLATED ALCOHOLS (C12-16)	68551-12-2	5.00000	0.00027	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
WELL S-9HM
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 RESOURCES INC.	1.00
9-3-2.1	JAMES & GINGER REGIEC	0.940
9-3-2.2	JOHN & RACHEL HOLPP	0.483
9-3-2.4	JOHN & RACHEL HOLPP	0.618
9-3-2.3	STEPHEN W. JOHNSON, II	0.591
9-3-4.1	DAVID E. WEST, ET UX	0.986
9-8-6.1	KAYLA E. BRATTON	1.423
9-8-5.2	AMY EVANS & KAREN WHETZAL	4.586
9-3-18.2	RAYMOND E. & CINDY L. WHITE	2.103
9-3-18.3	RAYMOND E. & CINDY L. WHITE	0.086
N/A	NEW BETHEL CEMETERY	1.90
9-3-2.6	RAYMOND E. & CINDY L. WHITE	0.61
9-5-9	BRENDA WHETZEL	20

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

NAD'83 S.P.C.(FT)	N. 486,176.17	E. 1,639,162.48
NAD'83 GEO.	LAT-(N) 39.828897	LONG-(W) 80.672695
NAD'83 UTM (M)	N. 4,408,817.98	E. 528,008.29
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 488,887.6	E. 1,641,708.0
NAD'83 GEO.	LAT-(N) 39.836431	LONG-(W) 80.663757
NAD'83 UTM (M)	N. 4,409,657.0	E. 528,770.0
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 479,431.0	E. 1,647,071.8
NAD'83 GEO.	LAT-(N) 39.810661	LONG-(W) 80.644229
NAD'83 UTM (M)	N. 4,406,803.3	E. 530,452.3

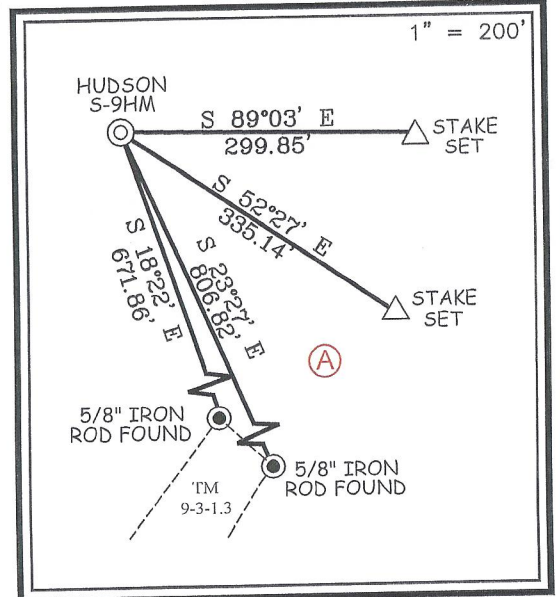
**AS DRILLED COORDINATES
FOR WELL NO. 9HM**

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

NAD'83 S.P.C.(FT)	N. 486,176.17	E. 1,639,162.48
NAD'83 GEO.	LAT-(N) 39.828897	LONG-(W) 80.672695
NAD'83 UTM (M)	N. 4,408,817.98	E. 528,008.29
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 488,890.9	E. 1,641,701.9
NAD'83 GEO.	LAT-(N) 39.836440	LONG-(W) 80.663779
NAD'83 UTM (M)	N. 4,409,658.0	E. 528,768.1
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 479,429.1	E. 1,647,068.6
NAD'83 GEO.	LAT-(N) 39.810655	LONG-(W) 80.644240
NAD'83 UTM (M)	N. 4,406,802.7	E. 530,451.3

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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'.
- TAX MAP LOCATION FOR 9-5-9 & 9-5-10 IS INCORRECT. 9-5-9'S DEED CALLS FOR BEING A RESERVATION OF 20 ACRES LYING ON THE NORTHEAST SIDE OF ROAD. THEREFORE MAKING THE ACREAGE ASSESSMENT INCORRECT DUE TO THE OUT SALES OF 9-5-10.1 AND 9-5-10.2.
- WELL PLAT UPDATED TO SHOW AS-DRILLED PATH.
- AS-DRILLED INFORMATION PROVIDED BY EQT PRODUCTION CO.

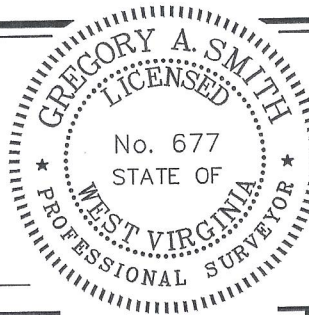


12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slsvw.com

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 23, 20 24
REVISED _____, 20 ____
OPERATORS WELL NO. HUDSON S-9HM
API WELL NO. 47 - 051 - 02380
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 8911-EQT-9HMAD.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 STONE HILL MINERALS HOLDINGS, LLC, ET AL ACREAGE 106.935±
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: 19,836

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

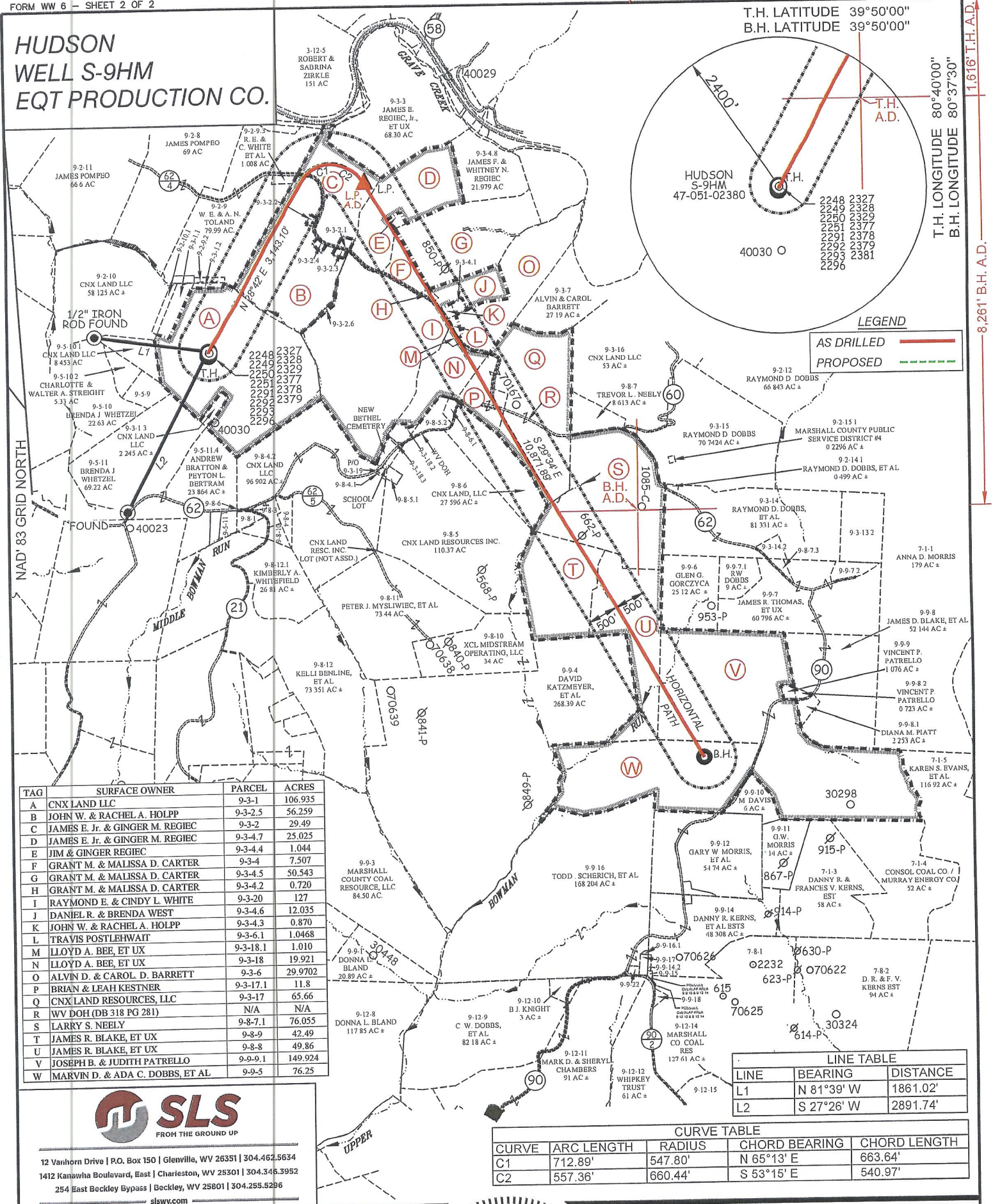
02/07/2025

**HUDSON
WELL S-9HM
EQT PRODUCTION CO.**

5,405' B.H. A.D. 1,693' 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"



LEGEND
AS DRILLED (solid red line)
PROPOSED (dashed green line)

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	JAMES E. JR. & GINGER M. REGIEC	9-3-2	29.49
D	JAMES E. JR. & GINGER M. REGIEC	9-3-4.7	25.025
E	JIM & GINGER REGIEC	9-3-4.4	1.044
F	GRANT M. & MALISSA D. CARTER	9-3-4	7.507
G	GRANT M. & MALISSA D. CARTER	9-3-4.5	50.543
H	GRANT M. & MALISSA D. CARTER	9-3-4.2	0.720
I	RAYMOND E. & CINDY L. WHITE	9-3-2.0	127
J	DANIEL R. & BRENDA WEST	9-3-4.6	12.035
K	JOHN W. & RACHEL A. HOLPP	9-3-4.3	0.870
L	TRAVIS POSTLEHWAIF	9-3-6.1	1.0468
M	LLOYD A. BEE, ET UX	9-3-18.1	1.010
N	LLOYD A. BEE, ET UX	9-3-18	19.921
O	ALVIN D. & CAROL D. BARRETT	9-3-6	29.9702
P	BRIAN & LEAH KESTNER	9-3-17.1	11.8
Q	CNX LAND RESOURCES, LLC	9-3-17	65.66
R	WV DOH (DB 318 PG 281)	N/A	N/A
S	LARRY S. NEELY	9-8-7.1	76.055
T	JAMES R. BLAKE, ET UX	9-8-9	42.49
U	JAMES R. BLAKE, ET UX	9-8-8	49.86
V	JOSEPH B. & JUDITH PATRELLO	9-9-1	149.924
W	MARVIN D. & ADA C. DOBBS, ET AL	9-9-5	76.25

LINE TABLE

LINE	BEARING	DISTANCE
L1	N 81°39' W	1861.02'
L2	S 27°26' W	2891.74'

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	712.89'	547.80'	N 65°13' E	663.64'
C2	557.36'	660.44'	S 53°15' E	540.97'



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slsvv.com

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(+) 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. 8911-EQT-9HMAD.dwg
DATE FEBRUARY 23, 2024
REVISED _____, 20____
OPERATORS WELL NO. HUDSON S-9HM
API WELL NO. 47-051-02380
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

COUNTY NAME PERMIT

02/07/2025