

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

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

API 47 - 051 - 02377 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-6HM (L027461)
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 4,408,806.57 Easting 528,013.90
Landing Point of Curve Northing 4,408,815.0 Easting 528,207.8
Bottom Hole Northing 4,406,221.2 Easting 529,733.2

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

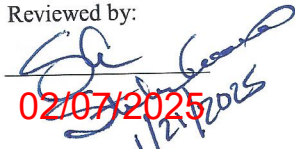
Mud Type(s) and Additive(s)
Synthetic Oil Based Mud 13.93 ppg barium sulfate, sodium chloride, xanthan gum, polyanionic cellulose, modified starch, sodium hydroxide, phosphonates and alkyl phosphates, glutaraldehyde solution, calcium hydroxide, partially hydrolyzed polyacrylamide/polyacrylate, potassium 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 09/27/2022 Date drilling ceased 02/13/2024
Date completion activities began 07/22/2024 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' 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:

02/07/2025
1/21/2025

WR-35
Rev. 8/23/13

API 47-051 - 02377

Farm name CNX LAND, LLC Well number Hudson S-6HM (L027461)

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"	1099'	NEW	J-55 54.5#	N/A	N
Coal							
Intermediate 1	12-1/4"	9-5/8"	2399'	NEW	J-55 36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4", 8-1/2"	6"	17,086'	NEW	P-110 24#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Surface: Run 204' of 1" PVC pipe in annulus. Pumped 457 sks. class A 1.18 yield, 15.6#, 10bbls returned
Production cmt has calculated TOC of 1102'GL, which is greater than 500'TVD above the producing formation. No issues.

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	524	15.6	1.21	634	0	8+
Surface	CLASS A	1190	15.6	1.18	1404	0	8
Coal							
Intermediate 1	CLASS A	910	15.6	1.12	1019	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2752	15.0	1.18	3247	1102'	8+
Tubing							

Drillers TD (ft) 17,098' Loggers TD (ft) N/A

Deepest formation penetrated MARCELLUS Plug back to (ft) N/A

Plug back procedure _____

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Kick off depth (ft) 2521'

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 7232' AND EVERY JOINT TO 1792'

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 _____

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Farm name CNX LAND, LLC

Well number Hudson S-6HM (L027461)

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.

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Farm name CNX LAND, LLC Well number Hudson S-6HM (L027461)

PRODUCING FORMATION(S)

Marcellus

DEPTHS

6,763-7,006 TVD 6,996-17,098 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 3135 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 4830 mcfpd Oil 0 bpd NGL 260 bpd Water 522 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) State PA Zip 15330
Address 207 Carlton Drive City Eighty Four

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

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

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

Please insert additional pages as applicable.

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

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry
02/07/2025

WR-35
Rev. 8/23/13

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Farm name CNX LAND, LLC

Well number Hudson S-6HM (L027461)

Drilling Contractor Falcon (Rig 24)

Address 1120 US-119

City Indiana

State PA

Zip 15701

Logging Company Lightning Energy Services

Address 603 US Hwy 19 N.

City Weston

State WV

Zip 26452

Logging Company Nzone Guidance, LLC

Address 140 Falcon Lane

City Liberty Hill

State TX

Zip 78642

Drilling Contractor _____

Address _____

City _____

State _____

Zip _____

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Well # HUDSON S-6HM (L027461) Final Formations API# 47-051-02377					
Formation Name	Drill Top	MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
		1	1	888	888
Sand/Shale		888	888	891	891
Sewickley Coal		891	891	970	970
Sand/Shale		970	970	976	976
Pittsburgh Coal		976	976	2,049	2,049
Sand/Shale		2,049	2,049	2,303	2,303
Big Lime		2,303	2,303	2,359	2,359
Big Injun		2,359	2,359	2,633	2,633
Sand/Shale		2,633	2,633	3,070	3,067
Berea		3,070	3,067	3,128	3,124
Sand/Shale		3,128	3,124	3,197	3,192
Gordon		3,197	3,192	3,338	3,331
Sand/Shale		3,338	3,331	3,618	3,608
Bayard		3,618	3,608	5,460	5,426
Sand/Shale		5,460	5,426	5,908	5,867
Alexander		5,908	5,867	6,474	6,420
Elks		6,474	6,420	6,599	6,530
Sonyea		6,599	6,530	6,638	6,561
Middlesex		6,638	6,561	6,713	6,617
Genesee		6,713	6,617	6,744	6,639
Geneseo		6,744	6,639	6,782	6,663
Tully		6,782	6,663	6,996	6,763
Hamilton		6,996	6,763	17,098	7,006
Marcellus					

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**HUDSON
WELL S-6HM
EQT PRODUCTION CO.**

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

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

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MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-3-1.1	CONSOLIDATION COAL CO	5.00
9-3-1.2	MARSHALL COUNTRY COAL RESOURCES	1.00
N/A	NEW BETHEL CEMETERY	1.90
N/A	SCHOOL LOT	0.10
P/O 9-3-19	RAYMOND E & CINDY L. WHITE (PARCELS 2 & 3)	0.50
9-8-4.1	CNX LAND LLC	0.333
9-8-5.1	RAYMOND E & CINDY L. WHITE	1.04
9-9-16.1	NAUVOO CEMETERY ASSOCIATION INC.	0.126
9-9-17	NAUVOO CEMETERY ASSOCIATION INC.	1.0
9-9-22	GARY W. MORRIS	0.15
9-8-4	DONALD M. & THERESA L. HARRIS	3.183
9-8-3	CHURCH OF CHRIST	2.50
9-8-1	CNX LAND CO. LLC	1
9-5-11.1	MARK H. FOX	2.619
9-8-6	CNX LAND LLC	27.59

**AS DRILLED COORDINATES
FOR WELL NO. 6HM**

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

NAD83 S.P.C.(FT)	N. 486,138.42	E. 1,639,180.25
NAD83 GEO.	LAT-(N) 39.828794	LONG-(W) 80.672830
NAD83 UTM (M)	N. 4,408,806.57	E. 528,013.90

LANDING POINT

NAD83 S.P.C.(FT)	N. 486,155.4	E. 1,639,817.0
NAD83 GEO.	LAT-(N) 39.828863	LONG-(W) 80.670364
NAD83 UTM (M)	N. 4,408,815.0	E. 528,207.8

BOTTOM HOLE

NAD83 S.P.C.(FT)	N. 477,560.3	E. 1,644,880.2
NAD83 GEO.	LAT-(N) 39.805442	LONG-(W) 80.652656
NAD83 UTM (M)	N. 4,406,221.2	E. 529,733.2

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

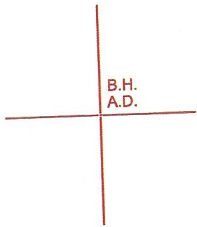
NAD83 S.P.C.(FT)	N. 486,138.42	E. 1,639,180.25
NAD83 GEO.	LAT-(N) 39.828794	LONG-(W) 80.672830
NAD83 UTM (M)	N. 4,408,806.57	E. 528,013.90

LANDING POINT

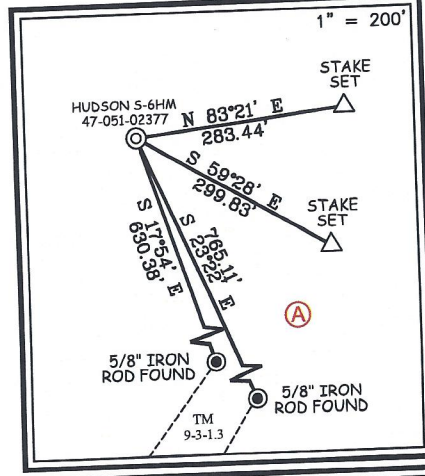
NAD83 S.P.C.(FT)	N. 486,194.9	E. 1,639,786.3
NAD83 GEO.	LAT-(N) 39.828971	LONG-(W) 80.670475
NAD83 UTM (M)	N. 4,408,826.9	E. 528,198.3

BOTTOM HOLE

NAD83 S.P.C.(FT)	N. 477,561.1	E. 1,644,883.5
NAD83 GEO.	LAT-(N) 39.805444	LONG-(W) 80.652645
NAD83 UTM (M)	N. 4,406,221.5	E. 529,734.2



REFERENCES



NOTES ON SURVEY

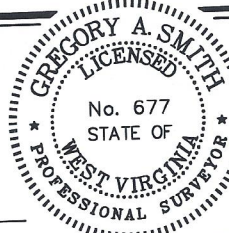
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS OR DWELLINGS > 2500 SQ. FT. WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.
- TAX MAP LOCATION FOR 9-5-9 & 9-5-10 IS INCORRECT. 9-5-9'S DEED CALLS FOR BEING 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.

SLS
FROM THE GROUND UP

12 Vanhook Drive | P.O. Box 150 | Glenville, WV 26031 | 304.482.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3932
254 East Beckley Bypass | Beckley, WV 25801 | 304.355.5236

slsww.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.



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

DATE FEBRUARY 16, 20 24

REVISED _____, 20 _____

OPERATORS WELL NO. HUDSON S-6HM

API WELL NO. 47 - 051 - 02377

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8911-EQT-6HMD.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±

LEASE NO. SEE WW-6A1

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: 17,113

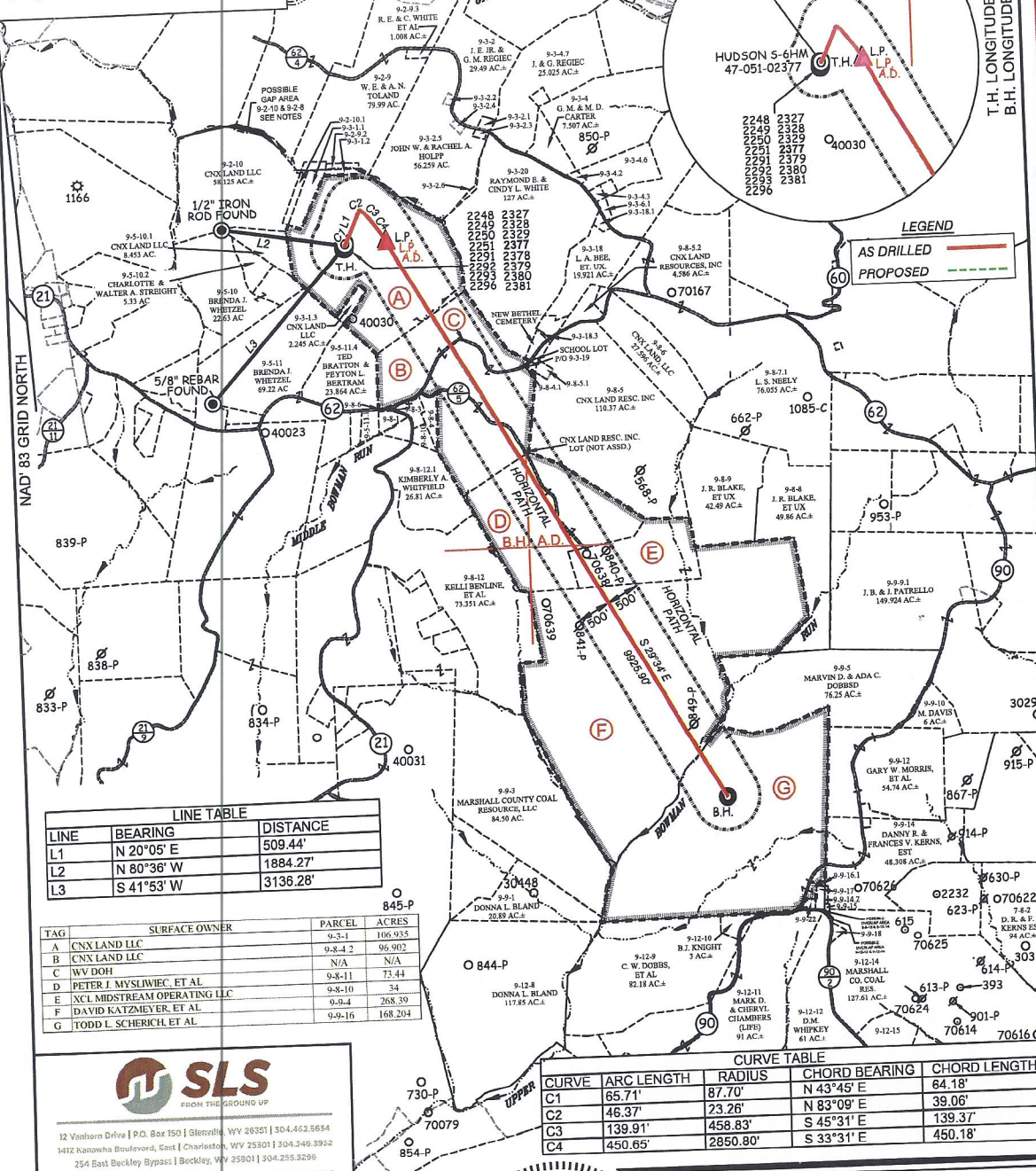
WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT JOSEPH C. MALLOW

ADDRESS 400 WOODCLIFF DRIVE ADDRESS 427 MIDSTATE DRIVE

CANONSBURG, PA 15317 CLARKSBURG, WV 26301

02/07/2025

**HUDSON WELL S-6HM
EQT PRODUCTION CO.**



LEGEND

- AS DRILLED (Red solid line)
- PROPOSED (Green dashed line)

LINE TABLE

LINE	BEARING	DISTANCE
L1	N 20°05' E	509.44'
L2	N 80°36' W	1884.27'
L3	S 41°53' W	3138.28'

TAG SURFACE OWNER PARCEL ACRES

A	CNX LAND LLC	0-8-4.2	96.902
B	CNX LAND LLC	N/A	N/A
C	WV DOH	9-8-11	73.44
D	PETER J. MYSLIWIAC ET AL	9-8-10	34
E	NCL MIDSTREAM OPERATING LLC	9-0-4	268.39
F	DAVID KATZMEYER ET AL	9-9-16	168.204
G	TODD L. SCHERICH ET AL		

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	65.71'	87.70'	N 43°45' E	64.18'
C2	46.37'	23.26'	N 83°09' E	39.06'
C3	139.91'	458.83'	S 45°31' E	139.37'
C4	450.65'	2850.80'	S 33°31' E	450.18'

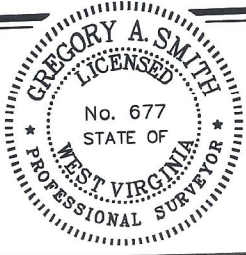
SLS
FROM THE GROUND UP

12 Yonaham Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.249.3932
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5239
slsw.com

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 NAD83 UTM (M) N. 4,406,221.5 E. 529,734.2



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

P.S. 677 *Gregory A. Smith*

LEGEND

- LEASE LINE (Dashed line)
- SURFACE LINE (Dotted line)
- WELL LATERAL (Solid line)
- OFFSET LINE (Dashed line)
- TIE LINE (Dotted line)
- CREEK (Wavy line)
- ROAD (Double line)
- COUNTY ROUTE (Line with 'R')
- PROPOSED WELL (Red circle with cross)
- EXISTING WELL (Black circle with cross)
- PERMITTED WELL (White circle with cross)
- TAX MAP-PARCEL (Numbered circle)
- SURFACE OWNER (SEE TABLE) (Circle with 'A')
- LEASE # (SEE WW-6A1) (Circle with 'A')

SCALE 1" = 2000' FILE NO. 8911-EQT-611MAD.dwg

DATE FEBRUARY 16, 2024
 REVISED _____, 20____
 OPERATORS WELL NO. HUDSON S-6HM
 API WELL NO. 47-051-02377
 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
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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	07/22/2024	17004	16825	40	Marcellus
3	07/23/2024	16806	16627	40	Marcellus
4	07/23/2024	16609	16430	40	Marcellus
5	07/24/2024	16411	16232	40	Marcellus
6	07/24/2024	16214	16035	64	Marcellus
7	07/27/2024	16016	15837	64	Marcellus
8	07/31/2024	15819	15640	40	Marcellus
9	07/31/2024	15621	15442	40	Marcellus
10	07/31/2024	15424	15245	40	Marcellus
11	07/31/2024	15226	15047	40	Marcellus
12	07/31/2024	15029	14850	40	Marcellus
13	08/01/2024	14831	14652	40	Marcellus
14	08/01/2024	14634	14455	40	Marcellus
15	08/01/2024	14436	14257	40	Marcellus
16	08/01/2024	14239	14060	40	Marcellus
17	08/01/2024	14041	13862	40	Marcellus
18	08/01/2024	13844	13665	40	Marcellus
19	08/02/2024	13646	13467	40	Marcellus
20	08/02/2024	13449	13270	40	Marcellus
21	08/02/2024	13251	13072	40	Marcellus
22	08/02/2024	13054	12875	40	Marcellus
23	08/03/2024	12856	12677	40	Marcellus
24	08/03/2024	12659	12480	40	Marcellus
25	08/04/2024	12461	12282	40	Marcellus
26	08/04/2024	12264	12085	40	Marcellus
27	08/05/2024	12066	11887	40	Marcellus
28	08/07/2024	11869	11690	40	Marcellus
29	08/08/2024	11671	11492	40	Marcellus
30	08/11/2024	11474	11295	40	Marcellus
31	08/11/2024	11276	11097	40	Marcellus
32	08/12/2024	11079	10900	40	Marcellus
33	08/12/2024	10881	10702	40	Marcellus
34	08/12/2024	10684	10505	40	Marcellus
35	08/13/2024	10486	10307	40	Marcellus
36	08/13/2024	10289	10110	40	Marcellus
37	08/13/2024	10091	9912	40	Marcellus
38	08/14/2024	9894	9715	40	Marcellus
39	08/14/2024	9696	9517	40	Marcellus
40	08/15/2024	9499	9320	40	Marcellus
41	08/16/2024	9301	9122	40	Marcellus
42	08/16/2024	9104	8925	40	Marcellus

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43	08/16/2024	8906	8727	40	Marcellus
44	08/16/2024	8709	8530	40	Marcellus
45	08/17/2024	8511	8332	64	Marcellus
46	08/17/2024	8314	8135	40	Marcellus
47	08/17/2024	8116	7937	40	Marcellus
48	08/18/2024	7919	7740	40	Marcellus
49	08/18/2024	7721	7542	40	Marcellus
50	08/18/2024	7524	7345	40	Marcellus
51	08/18/2024	7326	7137	92	Marcellus

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DEC 23 2024

WV Department of
Environmental Protection

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	07/22/2024	96	8538	8654	4831	250042	6406	
2	07/23/2024	100	8200	6489	4661	500278	10052	
3	07/23/2024	71	8981	6078	4358	513516	9980	
4	07/24/2024	91	8597	8707	4602	499980	9992	
5	07/24/2024	96	8554	6580	5000	500391	10143	
6	07/26/2024	98	8368	6457	4852	260440	12077	
7	07/28/2024	75	8383	6007	5226	355722	13120	
8	07/31/2024	100	7031	5355	4772	500170	9840	
9	07/31/2024	100	7434	5300	4645	500641	9872	
10	07/31/2024	100	7455	7502	4263	500241	10232	
11	08/01/2024	96	8506	5150	8094	499874	10314	
12	08/01/2024	95	8414	5373	4687	500232	10341	
13	08/01/2024	99	8091	8417	4737	499905	9822	
14	08/01/2024	100	8075	7781	4622	501518	9792	
15	08/01/2024	99	8176	5550	4937	495340	10146	
16	08/01/2024	99	8126	8024	4696	500316	10132	
17	08/02/2024	64	8782	8377	4159	500040	10169	
18	08/02/2024	99	7642	5637	4868	500212	10151	
19	08/02/2024	98	7890	5868	5000	502903	9787	
20	08/02/2024	101	7727	5842	5278	501413	10167	
21	08/03/2024	100	7695	5432	5318	500057	10080	
22	08/03/2024	100	7704	8205	4983	500295	9743	
23	08/03/2024	96	7586	5731	5114	501110	9750	
24	08/04/2024	100	7487	8081	5271	500184	10058	
25	08/04/2024	97	7704	5836	4782	500482	9738	
26	08/05/2024	99	7727	5844	5164	499901	10033	
27	08/07/2024	100	6925	5391	4921	499994	10044	
28	08/08/2024	99	7412	5873	5063	499980	9692	
29	08/11/2024	100	6714	6264	5292	501654	9493	
30	08/11/2024	90	8311	5925	5047	500000	9659	
31	08/12/2024	100	6803	5686	4953	500122	9574	
32	08/12/2024	97	7447	6201	5053	500323	9718	
33	08/13/2024	100	6653	5835	4995	500093	9649	
34	08/13/2024	94	8055	6723	4970	500186	9638	
35	08/13/2024	99	6763	6221	5690	500307	9620	
36	08/14/2024	100	7102	5335	4870	500147	9727	
37	08/14/2024	99	7117	5620	4928	500150	9598	
38	08/14/2024	84	7974	6212	5067	500287	9857	
39	08/16/2024	100	6908	5369	4927	500000	9599	
40	08/16/2024	99	7125	5714	4782	501577	9853	
41	08/16/2024	97	7720	5727	4841	500074	9597	

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42	08/16/2024	93	7800	5340	5770	498975	9571
43	08/17/2024	100	6866	5542	4971	500006	9555
44	08/17/2024	92	8270	5888	4927	500037	9568
45	08/17/2024	67	8860	7273	5208	8800	4057
46	08/18/2024	100	6106	5384	4931	500217	9495
47	08/18/2024	100	5954	5720	4938	500082	9556
48	08/18/2024	100	6023	5813	4929	499997	9532
49	08/18/2024	100	6059	7265	4856	500061	9548
50	08/18/2024	100	5958	5482	4968	500136	9521
51	08/19/2024	99	6296	6000	4726	400035	7646

02/07/2025

Hydraulic Fracturing Fluid Product Component Information Disclosure



Job Start Date:	07/22/2024
Job End Date:	08/19/2024
State:	West Virginia
County:	Marshall
API Number:	47-051-02377-00-00
Operator Name:	EQT Production
Well Name and Number:	Hudson S-6HM
Latitude:	39.828794
Longitude:	-80.67263
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7034
Total Base Water Volume (gal)*:	20802768
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	87.51712	None
Sand (Proppant)	EQT	Proppant					
			Silica Substrate	14808-60-7	100.00000	12.24966	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ALKANES, C12-26-BRANCHED AND LINEAR	90622-53-0	40.00000	0.01893	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ACRYLAMIDE-CHLORIDE SALT OF TRIMETHYLAMMONIO-ETHYL ACRYLATE COPOLYMER	69418-26-4	40.00000	0.01893	None
Clearal 268	ChemStream	Biocide					
			Water	7732-18-5	80.00000	0.00878	None

02/07/2025

Enviro-Syn HCR-7000- WL	Fluid USA, Inc.	Synthetic Acid						
			FLUID-Acid-00001	Proprietary	20.00000	0.00368	None	
StimSTREAM FR 9800	ChemStream	Friction Reducer						
			Water	7732-18-5	15.00000	0.00266	None	
Enviro-Syn HCR-7000- WL	Fluid USA, Inc.	Synthetic Acid						
			FLUID-Amine-00001	Proprietary	10.00000	0.00092	None	
Clearal 268	ChemStream	Biocide						
			Glutaraldehyde	111-30-8	20.00000	0.00055	None	
StimSTREAM FR 9800	ChemStream	Friction Reducer						
			ETHOXYLATED ALCOHOLS (C12-16)	68551-12-2	5.00000	0.00030	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)

02/07/2025

**HUDSON
WELL S-6HM
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"

10,160' B.H. A.D.

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-3-1.1	CONSOLIDATION COAL CO.	5.00
9-3-1.2	MARSHALL COUNTRY COAL RESOURCES	1.00
N/A	NEW BETHEL CEMETERY	1.90
N/A	SCHOOL LOT	0.10
P/O 9-3-19	RAYMOND E. & CINDY L. WHITE (PARCELS 2 & 3)	0.50
9-8-4.1	CNX LAND LLC	0.333
9-8-5.1	RAYMOND E. & CINDY L. WHITE	1.04
9-9-16.1	NAUVOO CEMETERY ASSOCIATION INC.	0.126
9-9-17	NAUVOO CEMETERY ASSOCIATION INC.	1.0
9-9-22	GARY W. MORRIS	0.15
9-8-4	DONALD M. & THERESA L. HARRIS	3.183
9-8-3	CHURCH OF CHRIST	2.50
9-8-1	CNX LAND CO. LLC	1
9-5-11.1	MARK H. FOX	2.619
9-8-6	CNX LAND LLC	27.59

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

NAD'83 S.P.C.(FT)	N. 486,138.42	E. 1,639,180.25
NAD'83 GEO.	LAT-(N) 39.828794	LONG-(W) 80.672630
NAD'83 UTM (M)	N. 4,408,806.57	E. 528,013.90

LANDING POINT

NAD'83 S.P.C.(FT)	N. 486,194.9	E. 1,639,786.3
NAD'83 GEO.	LAT-(N) 39.828971	LONG-(W) 80.670475
NAD'83 UTM (M)	N. 4,408,826.9	E. 528,198.3

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 477,561.1	E. 1,644,683.5
NAD'83 GEO.	LAT-(N) 39.805444	LONG-(W) 80.652645
NAD'83 UTM (M)	N. 4,406,221.5	E. 529,734.2

**AS DRILLED COORDINATES
FOR WELL NO. 6HM**

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

NAD'83 S.P.C.(FT)	N. 486,138.42	E. 1,639,180.25
NAD'83 GEO.	LAT-(N) 39.828794	LONG-(W) 80.672630
NAD'83 UTM (M)	N. 4,408,806.57	E. 528,013.90

LANDING POINT

NAD'83 S.P.C.(FT)	N. 486,155.4	E. 1,639,817.0
NAD'83 GEO.	LAT-(N) 39.828863	LONG-(W) 80.670364
NAD'83 UTM (M)	N. 4,408,815.0	E. 528,207.8

BOTTOM HOLE

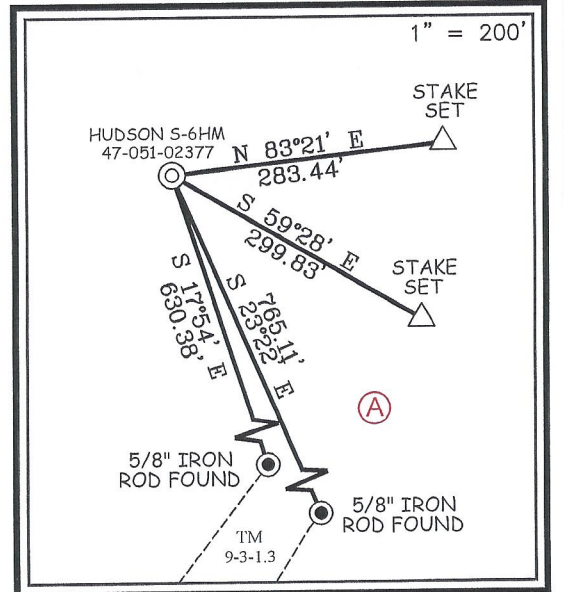
NAD'83 S.P.C.(FT)	N. 477,560.3	E. 1,644,680.2
NAD'83 GEO.	LAT-(N) 39.805442	LONG-(W) 80.652656
NAD'83 UTM (M)	N. 4,406,221.2	E. 529,733.2

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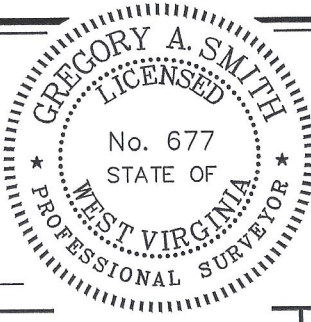
NOTES ON SURVEY

- 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.

REFERENCES



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 FEBRUARY 16, 20 24
REVISED _____, 20 ____
OPERATORS WELL NO. HUDSON S-6HM
API WELL NO. 47 - 051 - 02377
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8911-EQT-6HMAD.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'

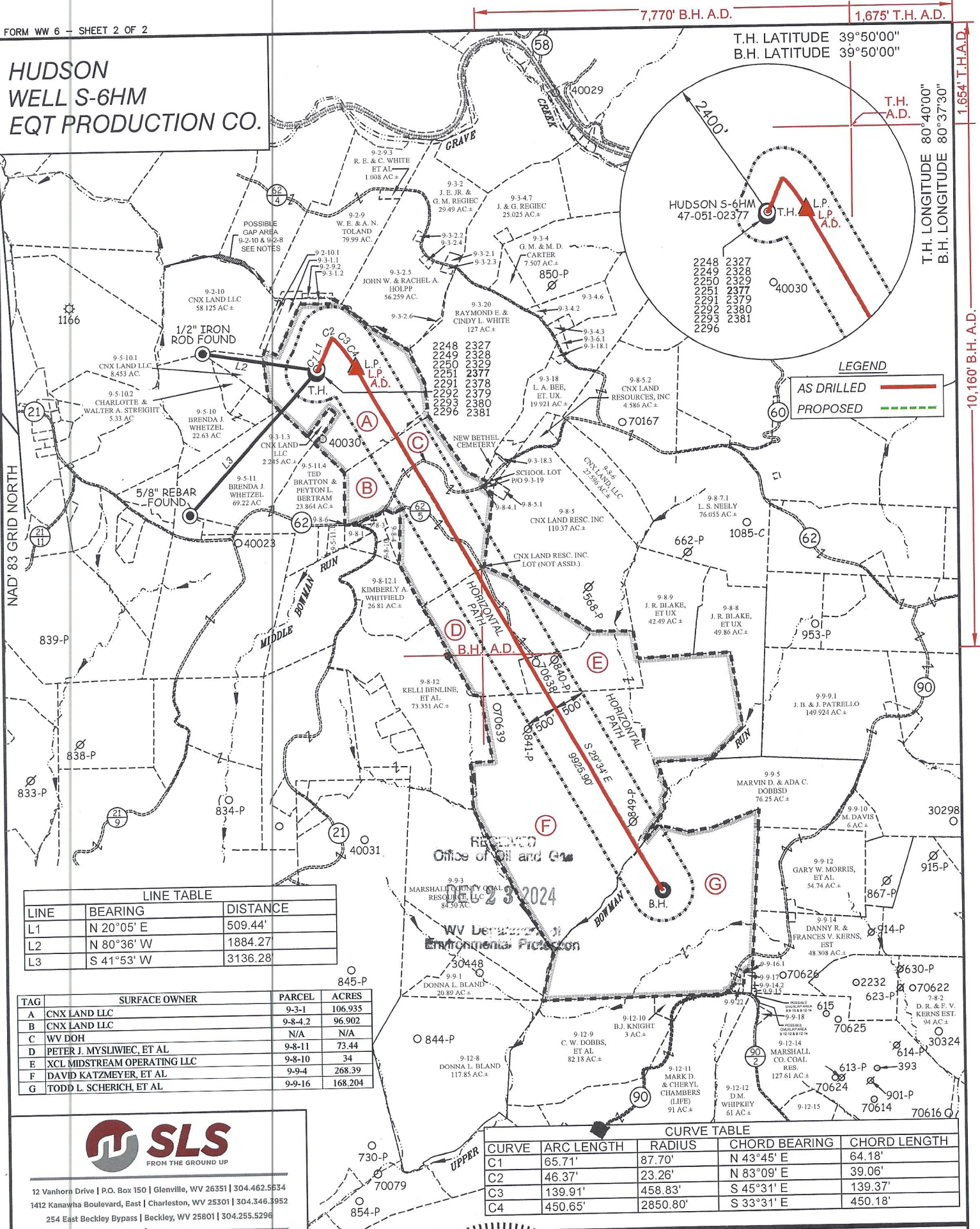
SURFACE OWNER CNX LAND LLC ACREAGE 106.935±
ROYALTY OWNER STONE HILL MINERALS HOLDINGS LLC, ET AL ACREAGE 106.935±

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: 17,113

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 WELL S-6HM EQT PRODUCTION CO.



LINE	BEARING	DISTANCE
L1	N 20°05' E	509.44'
L2	N 80°36' W	1884.27'
L3	S 41°53' W	3136.28'

TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND LLC	9-3-1	106.935
B	CNX LAND LLC	9-8-4-2	96.902
C	WV DOH	N/A	N/A
D	PETER J. MYSLIWIEC, ET AL	9-8-11	73.44
E	XCL MIDSTREAM OPERATING LLC	9-8-10	34
F	DAVID KATZMEYER, ET AL	9-9-4	268.39
G	TODD L. SCHERICH, ET AL	9-9-16	168.204

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
 slsww.com

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	65.71'	87.70'	N 43°45' E	64.18'
C2	46.37'	23.26'	N 83°09' E	39.06'
C3	139.91'	458.83'	S 45°31' E	139.37'
C4	450.65'	2850.80'	S 33°31' E	450.18'

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

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NAD83 UTM (M)	N. 4,406,221.5	E. 529,734.2

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. 8911-EQT-6HMAD.dwg

DATE FEBRUARY 16, 2024

REVISED _____, 20____

OPERATORS WELL NO. HUDSON S-6HM

API WELL NO. 47 - 051 - 02377

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

COUNTY NAME
 PERMIT