

WR-35
Rev. 8/23/13

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

API 47-051-02249 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-2HM (L027460)
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 4,408,806.99 Easting 528,007.48
Landing Point of Curve Northing 4,408,885.6 Easting 527,102.4
Bottom Hole Northing 4,405,574.0 Easting 529,056.7

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 14.05 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 11/04/2019 Date drilling commenced 03/20/2021 Date drilling ceased 03/05/2024
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 _____
Salt water depth(s) ft 1736', 1887', 2076' Void(s) encountered (Y/N) depths _____
Coal depth(s) ft 888', 970' Cavern(s) encountered (Y/N) depths _____
Is coal being mined in area (Y/N) N

APPROVED

Reviewed by:

02/07/2025
1/28/2025

API 47-051 - 02249

Farm name CNX LAND, LLC

Well number Hudson S-2HM (L027460)

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"	1076'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2327'	NEW	J-55 36#	N/A	
Intermediate 2							
Intermediate 3							
Production	8-3/4", 8-1/2"	6"	20,859'	NEW	P-110 24#	N/A	
Tubing							
Packer type and depth set							

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Comment Details Production Cement job has a calculated TOC of 1030' 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	367	15.6	1.21	444	0	8+
Surface	CLASS A	1142	15.6	1.18	1347	0	8
Coal							
Intermediate 1	HALCEM	910	15.6	1.12	1019	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3440	15.0	1.18	4059	1030'	8+
Tubing							

Drillers TD (ft) 20,884' Loggers TD (ft) N/A

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

Plug back procedure

Kick off depth (ft) 1118'

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 8313' AND EVERY JOINT TO 1899'

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 - 02249

Farm name CNX LAND, LLC

Well number Hudson S-2HM (L027460)

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.

02/07/2025

API 47- 051 - 02249 Farm name CNX LAND, LLC Well number Hudson S-2HM (L027460)

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6,712-6,968	TVD 8,038-20,884 MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2983 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 6317 mcfpd Oil 0 bpd NGL 206 bpd Water 508 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		

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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 Lightning Energy Services
Address 603 US Hwy 19 N. City Weston State WV Zip 26452

Please insert additional pages as applicable.

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

API 47- 051 - 02249 Farm name CNX LAND, LLC Well number Hudson S-2HM (L027460)

Drilling Contractor Falcon (Rig 24)
Address 1120 US-119 City Indiana State PA Zip 15701

Logging Company Nzone Guidance
Address 104 Falon Lane City Liberty Hill State TX Zip 78642

Logging Company _____
Address _____ City _____ State _____ Zip _____

Drilling Contractor _____
Address _____ City _____ State _____ Zip _____

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Well # HUDSON S-2HM (L027460) Final Formations API# 47-051-02249				
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	2,040
Big Lime	2,049	2,040	2,303	2,289
Big Injun	2,303	2,289	2,359	2,344
Sand/Shale	2,359	2,344	2,633	2,614
Berea	2,633	2,614	3,070	3,026
Sand/Shale	3,070	3,026	3,128	3,077
Gordon	3,128	3,077	3,197	3,136
Sand/Shale	3,197	3,136	3,338	3,251
Bayard	3,338	3,251	3,618	3,462
Sand/Shale	3,618	3,462	5,460	4,828
Alexander	5,460	4,828	5,908	5,156
Elks	5,908	5,156	7,499	6,374
Sonyea	7,499	6,374	7,638	6,484
Middlesex	7,638	6,484	7,682	6,517
Genesee	7,682	6,517	7,764	6,573
Geneseo	7,764	6,573	7,798	6,595
Tully	7,798	6,595	7,839	6,620
Hamilton	7,839	6,620	8,038	6,712
Marcellus	8,038	6,712	20,884	6,968

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**HUDSON S
WELL 2HM
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"

1,652' T.H. A.D.
12,276' B.H. A.D.

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-2-9-1	MARSHALL COUNTY COAL	1.00
9-2-9-2	CONSOLIDATION COAL CO	1.00
9-3-1-2	MARSHALL COUNTY COAL	1.00
9-3-1-3	CNX LAND CO LLC	2.245
9-5-6	NANCY L. SNYDER (LIFE ESTATE)	82.858
9-5-6-1	JON B. CRAWFORD	4.679
9-5-6-9	CNX LAND CO LLC	22.39
9-5-7	ME CHURCH	81.5 POLES (6 AC ASSD)
9-5-10-1	CNX LAND CO LLC	8.453
9-5-8-1	ISAAC MCKINNEY, ET UX	2.875
9-5-11-1	MARK H. FOX	2.619
9-5-11-2	LARRY WHETZEL, JR.	2.355
9-5-11-3	MARK H. FOX	1.94
9-5-12	LARRY WHETZEL, JR.	1.00
9-5-13	SHELLY ANN JORDAN	5.51
9-5-14-1	SAVANNA N & MATTHEW WEST	2.819
9-5-14-3	MARK H. FOX	10.714
9-7-9	CNX LAND CO LLC	2.00
9-7-10	DONALD M. & THERESA L. HARRIS	3.00
9-7-11-1	WV DEPT. OF HIGHWAYS	3.63
9-7-27	LOGAN M. TOLER & ASHLEY N. BERARDI	1.005
9-7-28	RICHARD CLARK	1.983
9-7-28-1	NATHAN WILLIAMS	2.768
9-7-29-1	LOGAN M. TOLER & ASHLEY N. BERARDI	5.004
9-8-1	CNX LAND CO LLC	2.908
9-8-2	CNX LAND CO LLC	6000 SQ. FT.
9-8-12	GEORGE R. & SHIRLEY KOONTZ	73.351

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'83 S.P.C.(FT) N. 486,140.15 E. 1,639,159.21
 NAD'83 GEO. LAT. (N) 39.828798 LONG. (W) 80.672705
 NAD'83 UTM (M) N. 4,408,806.99 E. 528,007.48

LANDING POINT

NAD'83 S.P.C.(FT) N. 486,448.6 E. 1,636,193.4
 NAD'83 GEO. LAT. (N) 39.829538 LONG. (W) 80.683279
 NAD'83 UTM (M) N. 4,408,885.9 E. 527,102.4

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 475,475.0 E. 1,642,417.7
 NAD'83 GEO. LAT. (N) 39.799637 LONG. (W) 80.680613
 NAD'83 UTM (M) N. 4,405,574.4 E. 529,054.5

**AS DRILLED COORDINATES
FOR WELL NO. 2HM**

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

NAD'83 S.P.C.(FT) N. 486,140.15 E. 1,639,159.21
 NAD'83 GEO. LAT. (N) 39.828798 LONG. (W) 80.672705
 NAD'83 UTM (M) N. 4,408,806.99 E. 528,007.48

LANDING POINT

NAD'83 S.P.C.(FT) N. 486,447.7 E. 1,636,193.4
 NAD'83 GEO. LAT. (N) 39.829538 LONG. (W) 80.683279
 NAD'83 UTM (M) N. 4,408,885.6 E. 527,102.4

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 475,473.5 E. 1,642,424.9
 NAD'83 GEO. LAT. (N) 39.799634 LONG. (W) 80.680507
 NAD'83 UTM (M) N. 4,405,574.0 E. 529,056.7

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Environmental Protection

B.H.
A.D.

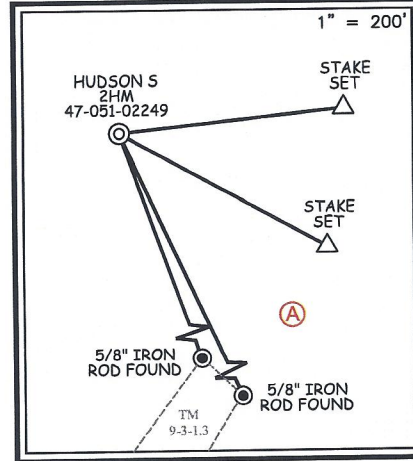
NOTES ON SURVEY

1. 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.
2. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.
3. WELL PLAT UPDATED TO SHOW AS-DRILLED PATH.
4. AS-DRILLED INFORMATION PROVIDED BY EQT PRODUCTION CO.



12 Vashon Drive | RO, Box 130 | Glenville, WV 26031 | 304.462.9534
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.546.3992
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.9296
 slswv.com

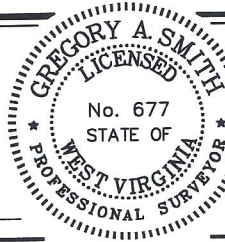
REFERENCES



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 MARCH 15, 20 24

REVISED _____

OPERATORS WELL NO. HUDSON S-2HM

API WELL NO. 47 - 051 - 02249
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 8911P2HMAD.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: 20,978

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

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

02/07/2025

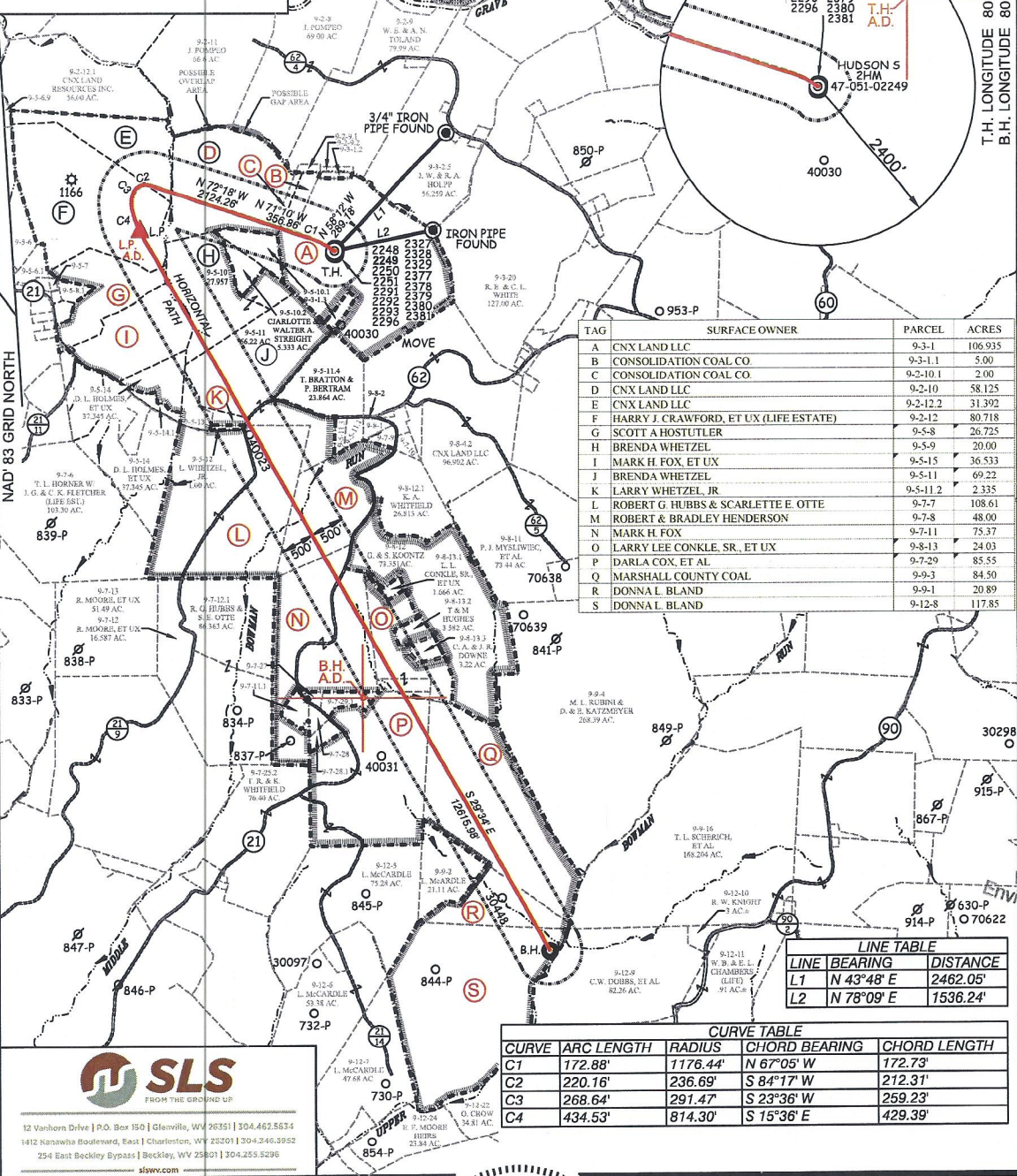
COUNTY NAME
PERMIT

HUDSON S WELL 2HM EQT PRODUCTION CO.

LEGEND

AS DRILLED

PROPOSED



TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND LLC	9-3-1	106.935
B	CONSOLIDATION COAL CO.	9-3-1-1	5.00
C	CONSOLIDATION COAL CO.	9-2-10-1	2.00
D	CNX LAND LLC	9-2-10	58.125
E	CNX LAND LLC	9-2-12-2	31.392
F	HARRY J. CRAWFORD, ET UX (LIFE ESTATE)	9-2-12	80.718
G	SCOTT A HOSTUTLER	9-5-8	26.725
H	BRENDA WHETZEL	9-5-9	20.00
I	MARK H. FOX, ET UX	9-5-15	36.533
J	BRENDA WHETZEL	9-5-11	69.22
K	LARRY WHETZEL, JR.	9-5-11-2	2.335
L	ROBERT G. HUBBS & SCARLETTE E. OTTE	9-7-7	108.61
M	ROBERT & BRADLEY HENDERSON	9-7-8	48.00
N	MARK H. FOX	9-7-11	75.37
O	LARRY LEE CONKLE, SR., ET UX	9-8-13	24.03
P	DARLA COX, ET AL.	9-7-29	85.55
Q	MARSHALL COUNTY COAL	9-9-3	84.50
R	DONNA L. BLAND	9-9-1	20.89
S	DONNA L. BLAND	9-12-8	117.85

LINE TABLE

LINE	BEARING	DISTANCE
L1	N 43°48' E	2462.05'
L2	N 78°09' E	1536.24'

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	172.88'	1176.44'	N 67°05' W	172.73'
C2	220.16'	236.69'	S 84°17' W	212.31'
C3	268.64'	291.47'	S 23°36' W	259.23'
C4	434.53'	814.30'	S 15°36' E	429.39'

12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5334
 1412 Nanawha Boulevard, East Charleston, WV 25301 | 304.346.3952
 294 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 sls-wv.com

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

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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. 8911P2HMAD.dwg

DATE MARCH 15, 20 24

REVISED _____

OPERATORS WELL NO. HUDSON S-2HM

API WELL 47 - 051 - 02249

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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Perforation Data

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Environmental Protection

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	20782	20630	48	Marcellus
3	07/23/2024	20601	20450	48	Marcellus
4	07/23/2024	20421	20270	48	Marcellus
5	07/23/2024	20241	20089	48	Marcellus
6	07/24/2024	20060	19909	48	Marcellus
7	07/24/2024	19880	19729	48	Marcellus
8	07/24/2024	19700	19549	48	Marcellus
9	07/25/2024	19519	19368	48	Marcellus
10	07/25/2024	19339	19188	48	Marcellus
11	07/25/2024	19159	19008	48	Marcellus
12	07/26/2024	18979	18827	48	Marcellus
13	07/26/2024	18798	18647	48	Marcellus
14	07/26/2024	18618	18467	48	Marcellus
15	07/26/2024	18438	18286	48	Marcellus
16	07/27/2024	18257	18106	48	Marcellus
17	07/27/2024	18077	17926	48	Marcellus
18	07/27/2024	17897	17746	48	Marcellus
19	07/28/2024	17716	17565	48	Marcellus
20	07/28/2024	17536	17385	48	Marcellus
21	07/28/2024	17356	17205	48	Marcellus
22	07/29/2024	17176	17024	48	Marcellus
23	07/29/2024	16995	16844	48	Marcellus
24	07/29/2024	16815	16664	48	Marcellus
25	07/30/2024	16635	16483	48	Marcellus
26	07/30/2024	16454	16303	48	Marcellus
27	07/30/2024	16274	16123	48	Marcellus
28	07/30/2024	16094	15943	48	Marcellus
29	07/31/2024	15913	15762	48	Marcellus
30	08/01/2024	15733	15582	48	Marcellus
31	08/01/2024	15553	15402	48	Marcellus
32	08/02/2024	15373	15221	48	Marcellus
33	08/02/2024	15192	15041	48	Marcellus
34	08/03/2024	15012	14861	48	Marcellus
35	08/03/2024	14832	14680	48	Marcellus
36	08/03/2024	14651	14500	48	Marcellus
37	08/03/2024	14471	14320	48	Marcellus
38	08/05/2024	14291	14140	48	Marcellus
39	08/05/2024	14110	13959	48	Marcellus
40	08/05/2024	13930	13779	48	Marcellus
41	08/05/2024	13750	13599	48	Marcellus
42	08/05/2024	13570	13418	48	Marcellus

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43	08/06/2024	13389	13238	48	Marcellus
44	08/06/2024	13209	13058	48	Marcellus
45	08/06/2024	13029	12877	48	Marcellus
46	08/06/2024	12848	12697	48	Marcellus
47	08/06/2024	12668	12517	48	Marcellus
48	08/07/2024	12488	12337	48	Marcellus
49	08/07/2024	12307	12156	48	Marcellus
50	08/09/2024	12127	11976	48	Marcellus
51	08/11/2024	11947	11796	48	Marcellus
52	08/11/2024	11767	11615	48	Marcellus
53	08/11/2024	11586	11435	48	Marcellus
54	08/12/2024	11406	11255	48	Marcellus
55	08/12/2024	11226	11074	48	Marcellus
56	08/12/2024	11045	10894	48	Marcellus
57	08/12/2024	10865	10714	48	Marcellus
58	08/13/2024	10685	10534	48	Marcellus
59	08/13/2024	10504	10353	48	Marcellus
60	08/13/2024	10324	10173	48	Marcellus
61	08/13/2024	10144	9993	48	Marcellus
62	08/13/2024	9964	9812	48	Marcellus
63	08/13/2024	9783	9632	48	Marcellus
64	08/14/2024	9603	9452	48	Marcellus
65	08/15/2024	9423	9271	48	Marcellus
66	08/15/2024	9242	9091	48	Marcellus
67	08/16/2024	9062	8911	48	Marcellus
68	08/16/2024	8882	8731	48	Marcellus
69	08/16/2024	8701	8550	48	Marcellus
70	08/17/2024	8521	8370	48	Marcellus
71	08/17/2024	8341	8190	48	Marcellus
72	08/17/2024	8161	8069	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	07/22/2024	98	8543	9267	4087	249883	6602	
2	07/23/2024	98	8088	7955	4756	450200	9423	
3	07/23/2024	100	8317	5989	4763	449912	4321	
4	07/23/2024	99	8668	6111	4304	450177	9224	
5	07/24/2024	100	8341	7050	4541	450520	9499	
6	07/24/2024	100	8486	5955	4899	450039	9300	
7	07/25/2024	99	8394	6323	4455	450523	10282	
8	07/25/2024	100	8280	5748	4598	450493	9280	
9	07/25/2024	100	8471	5588	4569	450195	9128	
10	07/25/2024	100	7439	2721	4461	451804	9721	
11	07/26/2024	100	8084	7472	4473	451019	9701	
12	07/26/2024	100	8033	5495	4653	451083	9209	
13	07/26/2024	100	7342	2713	4507	438335	9777	
14	07/27/2024	100	7300	2712	4995	451887	9789	
15	07/27/2024	95	8115	6254	4456	430558	9343	
16	07/27/2024	100	8129	5632	4723	450353	9146	
17	07/27/2024	100	8341	5625	4503	452507	9187	
18	07/28/2024	100	7160	2702	4716	450506	9576	
19	07/28/2024	100	8416	5356	4701	450294	9014	
20	07/28/2024	100	7107	2699	4855	450628	9650	
21	07/29/2024	100	7076	2698	4899	449994	9378	
22	07/29/2024	100	8110	5508	4826	450231	9106	
23	07/29/2024	99	8103	5476	4776	450239	9517	
24	07/30/2024	100	7967	5385	4921	450090	9429	
25	07/30/2024	100	7975	5490	5050	451162	9065	
26	07/30/2024	100	8179	5572	5233	450065	9594	
27	07/31/2024	99	8142	5747	5191	449690	9262	
28	07/31/2024	100	7999	5715	5090	450304	8974	
29	08/01/2024	100	8167	5695	5544	449961	9315	
30	08/01/2024	100	7731	5642	4948	451223	9016	
31	08/02/2024	100	7831	5453	4798	450208	9455	
32	08/02/2024	95	7753	5830	4913	447378	9633	
33	08/03/2024	98	7778	6146	5497	453420	9044	
34	08/03/2024	99	7900	5984	5775	451980	8981	
35	08/03/2024	99	8056	5877	4833	447600	8977	
36	08/03/2024	100	7877	5910	5240	450228	9426	
37	08/05/2024	93	8008	6311	5452	436915	9113	
38	08/05/2024	99	7863	8072	5376	451035	9001	
39	08/05/2024	99	7641	7917	5194	454223	8950	
40	08/05/2024	100	7524	7787	5513	456360	8937	
41	08/06/2024	100	7791	6946	5002	450081	9303	

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42	08/06/2024	100	7631	5519	5258	450031	9363
43	08/06/2024	99	7654	7342	5478	444317	8806
44	08/06/2024	100	7765	6048	5242	451300	8960
45	08/06/2024	100	7572	6337	4997	453240	9233
46	08/07/2024	100	7475	5621	4976	540676	9268
47	08/07/2024	98	7707	5273	4977	450463	8957
48	08/07/2024	100	7415	6037	5308	451210	9218
49	08/09/2024	98	7655	6210	4723	303750	9452
50	08/11/2024	97	7070	6694	4741	450336	8814
51	08/11/2024	100	7250	5879	5062	450322	8853
52	08/12/2024	100	7022	5614	5112	450000	8886
53	08/12/2024	100	7050	5603	5091	450367	8900
54	08/12/2024	97	7334	6452	4624	450360	8842
55	08/12/2024	100	7298	5565	4583	450053	8893
56	08/13/2024	100	7043	5827	5092	450106	8843
57	08/13/2024	100	6888	6461	5043	450072	8823
58	08/13/2024	100	6942	6739	4976	450379	8893
59	08/16/2024	99	7234	5697	4694	450392	8786
60	08/13/2024	100	7047	5517	4852	450358	8898
61	08/13/2024	100	7280	5849	4836	450277	8802
62	08/14/2024	99	6887	5481	4417	450033	6073
63	08/14/2024	99	7213	6134	4960	450357	8789
64	08/15/2024	100	7026	5558	4702	450075	8799
65	08/16/2024	100	6854	5623	5138	450042	8735
66	08/16/2024	100	7049	5574	5110	450162	9805
67	08/16/2024	100	6816	5710	4838	450222	8788
68	08/17/2024	100	7016	5386	7511	450036	8751
69	08/17/2024	98	7081	5556	4359	449979	8742
70	08/17/2024	100	6808	5785	5018	450032	8765
71	08/18/2024	100	6884	6207	4484	450088	8758
72	08/18/2024	94	6962	6102	3984	300013	5853

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	07/22/2024
Job End Date:	08/18/2024
State:	West Virginia
County:	Marshall
API Number:	47-051-02249-00-00
Operator Name:	EQT Production
Well Name and Number:	Hudson S-2HM
Latitude:	39.828798
Longitude:	-80.672705
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6999
Total Base Water Volume (gal)*:	27131832
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	87.47032	None
Sand (Proppant)	EQT	Proppant					
			Silica Substrate	14808-60-7	100.00000	12.35565	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ACRYLAMIDE-CHLORIDE SALT OF TRIMETHYLAMMONIO-ETHYL ACRYLATE COPOLYMER	69418-26-4	40.00000	0.01636	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ALKANES, C12-26-BRANCHED AND LINEAR	90622-53-0	40.00000	0.01636	None
Clearal 268	ChemStream	Biocide					
			Water	7732-18-5	80.00000	0.00882	None

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StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Water	7732-18-5	15.00000	0.00230	None
Enviro-Syn HCR-7000- WL	Fluid USA, Inc.	Synthetic Acid					
			FLUID-Acid-00001	Proprietary	20.00000	0.00195	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	0.00049	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ETHOXYLATED ALCOHOLS (C12-16)	68551-12-2	5.00000	0.00026	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor					
			AA/ATBS Co-polymer	9003-05-8	5.00000	0.00002	None
Clearal 268	ChemStream	Biocide					
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00001	None
Clearal 268	ChemStream	Biocide					
			Quaternary Ammonium Compounds	68424-85-1	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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02/07/2025

HUDSON S WELL 2HM 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"

1,652' T.H. A.D.

12,276' B.H. A.D.

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-2-9.1	MARSHALL COUNTY COAL	1.00
9-2-9.2	CONSOLIDATION COAL CO.	1.00
9-3-1.2	MARSHALL COUNTY COAL	1.00
9-3-1.3	CNX LAND CO. LLC	2.245
9-5-6	NANCY L. SNYDER (LIFE ESTATE)	82.858
9-5-6.1	JON B. CRAWFORD	4.679
9-5-6.9	CNX LAND CO. LLC	22.39
9-5-7	ME CHURCH	81.5 POLES (6 AC. ASSD)
9-5-10.1	CNX LAND CO. LLC	8.453
9-5-8.1	ISAAC MCKINNEY, ET UX	2.875
9-5-11.1	MARK H. FOX	2.619
9-5-11.2	LARRY WHETZEL, JR.	2.355
9-5-11.3	MARK H. FOX	1.94
9-5-12	LARRY WHETZEL, JR.	1.00
9-5-13	SHELLY ANN JORDAN	5.51
9-5-14.1	SAVANNA N & MATTHEW WEST	2.819
9-5-14.3	MARK H. FOX	10.714
9-7-9	CNX LAND CO. LLC	2.00
9-7-10	DONALD M. & THERESA L. HARRIS	3.00
9-7-11.1	WV DEPT. OF HIGHWAYS	3.63
9-7-27	LOGAN M TOLER & ASHLEY N. BERARDI	1.005
9-7-28	RICHARD CLARK	1.983
9-7-28.1	NATHAN WILLIAMS	2.768
9-7-29.1	LOGAN M TOLER & ASHLEY N. BERARDI	5.004
9-8-1	CNX LAND CO. LLC	2.908
9-8-2	CNX LAND CO. LLC	6000 SQ. FT.
9-8-12	GEORGE R. & SHIRLEY KOONTZ	73.351

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

NAD'83 S.P.C.(FT)	N. 486,140.15	E. 1,639,159.21
NAD'83 GEO.	LAT-(N) 39.828798	LONG-(W) 80.672705
NAD'83 UTM (M)	N. 4,408,806.99	E. 528,007.48

LANDING POINT

NAD'83 S.P.C.(FT)	N. 486,448.6	E. 1,636,193.4
NAD'83 GEO.	LAT-(N) 39.829538	LONG-(W) 80.683279
NAD'83 UTM (M)	N. 4,408,885.9	E. 527,102.4

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 475,475.0	E. 1,642,417.7
NAD'83 GEO.	LAT-(N) 39.799637	LONG-(W) 80.660613
NAD'83 UTM (M)	N. 4,405,574.4	E. 529,054.5

AS DRILLED COORDINATES FOR WELL NO. 2HM

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

NAD'83 S.P.C.(FT)	N. 486,140.15	E. 1,639,159.21
NAD'83 GEO.	LAT-(N) 39.828798	LONG-(W) 80.672705
NAD'83 UTM (M)	N. 4,408,806.99	E. 528,007.48

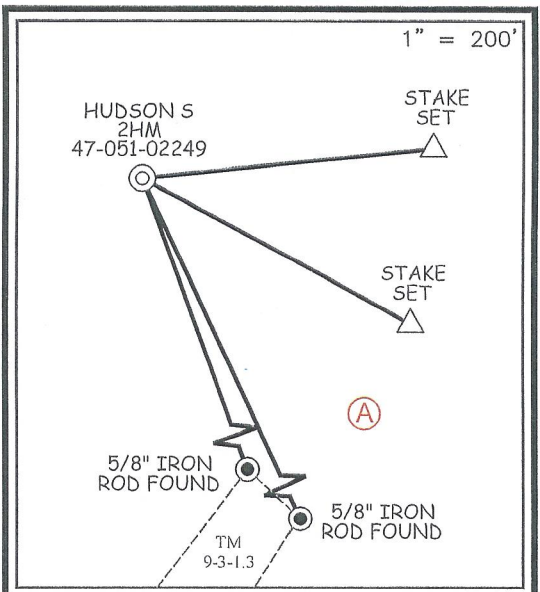
LANDING POINT

NAD'83 S.P.C.(FT)	N. 486,447.7	E. 1,636,193.4
NAD'83 GEO.	LAT-(N) 39.829536	LONG-(W) 80.683279
NAD'83 UTM (M)	N. 4,408,885.6	E. 527,102.4

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 475,473.6	E. 1,642,424.9
NAD'83 GEO.	LAT-(N) 39.799634	LONG-(W) 80.660587
NAD'83 UTM (M)	N. 4,405,574.0	E. 529,056.7

REFERENCES



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B.H.
A.D.

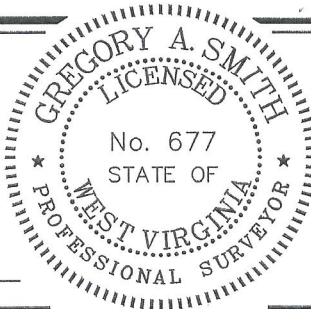
NOTES ON SURVEY

- 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 26031 | 304.462.5654
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25601 | 304.255.5266
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 MARCH 15, 20 24
REVISED _____
OPERATORS WELL NO. HUDSON S-2HM
API WELL NO. 47 - 051 - 02249
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8911P2HMAD.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 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: 20,978

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 2HM
EQT PRODUCTION CO.**

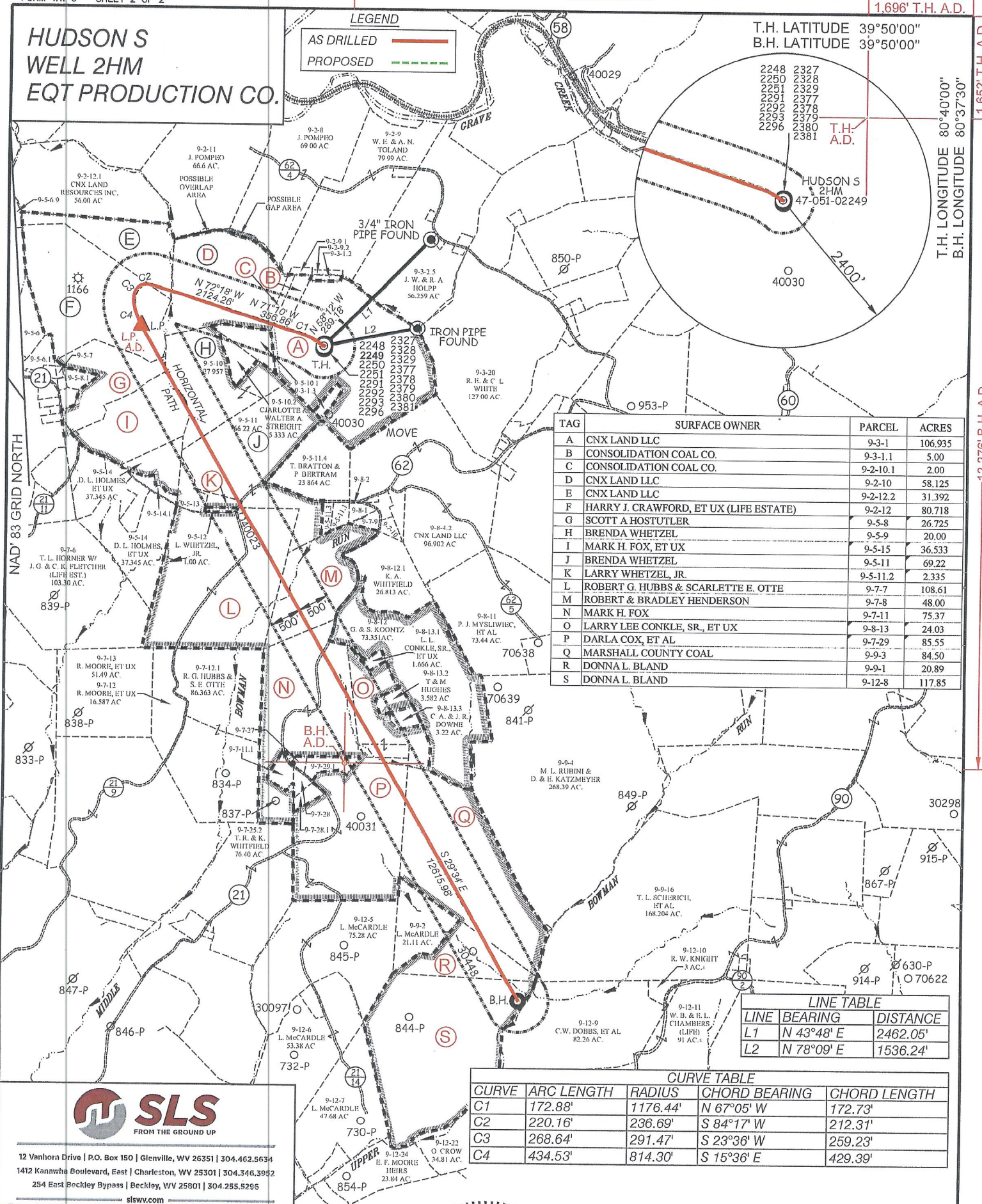
LEGEND

AS DRILLED ———
PROPOSED - - - - -

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

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

12,276' B.H. A.D.



TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND LLC	9-3-1	106.935
B	CONSOLIDATION COAL CO.	9-3-1.1	5.00
C	CONSOLIDATION COAL CO.	9-2-10.1	2.00
D	CNX LAND LLC	9-2-10	58.125
E	CNX LAND LLC	9-2-12.2	31.392
F	HARRY J. CRAWFORD, ET UX (LIFE ESTATE)	9-2-12	80.718
G	SCOTT A. HOSTUTLER	9-5-8	26.725
H	BRENDA WHETZEL	9-5-9	20.00
I	MARK H. FOX, ET UX	9-5-15	36.533
J	BRENDA WHETZEL	9-5-11	69.22
K	LARRY WHETZEL, JR.	9-5-11.2	2.335
L	ROBERT G. HUBBS & SCARLETTE E. OTTE	9-7-7	108.61
M	ROBERT & BRADLEY HENDERSON	9-7-8	48.00
N	MARK H. FOX	9-7-11	75.37
O	LARRY LEE CONKLE, SR., ET UX	9-8-13	24.03
P	DARLA COX, ET AL	9-7-29	85.55
Q	MARSHALL COUNTY COAL	9-9-3	84.50
R	DONNA L. BLAND	9-9-1	20.89
S	DONNA L. BLAND	9-12-8	117.85

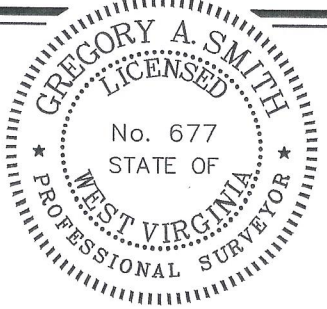
LINE	BEARING	DISTANCE
L1	N 43°48' E	2462.05'
L2	N 78°09' E	1536.24'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	172.88'	1176.44'	N 67°05' W	172.73'
C2	220.16'	236.69'	S 84°17' W	212.31'
C3	268.64'	291.47'	S 23°36' W	259.23'
C4	434.53'	814.30'	S 15°36' E	429.39'



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.6634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.546.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5295
slswv.com

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
NAD'83 S.P.C.(FT) N. 486,140.15 E. 1,639,159.21
NAD'83 GEO. LAT-(N) 39.828798 LONG-(W) 80.672705
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NAD'83 S.P.C.(FT) N. 486,448.6 E. 1,636,193.4
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NAD'83 UTM (M) N. 4,408,885.9 E. 527,102.4
BOTTOM HOLE
NAD'83 S.P.C.(FT) N. 475,475.0 E. 1,642,417.7
NAD'83 GEO. LAT-(N) 39.799637 LONG-(W) 80.660613
NAD'83 UTM (M) N. 4,405,674.4 E. 529,054.5



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
P.S. 677 *Gregory A. Smith*

SCALE 1" = 2000' FILE NO. 8911P2HMAD.dwg
DATE MARCH 15, 2024
REVISED _____
OPERATORS WELL NO. HUDSON S-2HM
API WELL NO. 47-051-02249
NO. STATE COUNTY PERMIT

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

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)

COUNTY NAME
PERMIT

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
WELL 2HM
EQT PRODUCTIO 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
9-2-9.1	MARSHALL COUNTY COAL	1.00
9-2-9.2	CONSOLIDATION COAL CO.	1.00
9-3-1.2	MARSHALL COUNTY COAL	1.00
9-3-1.3	CNX LAND CO. LLC	2.245
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9-5-6.1	JON B. CRAWFORD	4.679
9-5-6.9	CNX LAND CO. LLC	22.39
9-5-7	ME CHURCH	81.5 POLES (6 AC. ASSD)
9-5-10.1	CNX LAND CO. LLC	8.453
9-5-8.1	ISACC McKINNEY, ET UX	2.875
9-5-11.1	MARK H. FOX	2.619
9-5-11.2	LARRY WHETZEL, JR.	2.355
9-5-11.3	MARK H. FOX	1.94
9-5-12	LARRY WHETZEL, JR.	1.00
9-5-13	SHELLY ANN JORDAN	5.51
9-5-14.1	SAVANNAH & MATTHEW WEST	2.819
9-5-14.3	MARK H. FOX	10.714
9-7-9	CNX LAND CO. LLC	2.00
9-7-10	DONALD M. & THERESA L. HARRIS	3.00
9-7-11.1	WV DEPT. OF HIGHWAYS	3.63
9-7-27	LOGAN M TOLER & ASHLEY N. BERARDI	1.005
9-7-28	RICHARD CLARK	1.983
9-7-28.1	NATHAN WILLIAMS	2.768
9-7-29.1	LOGAN M TOLER & ASHLEY N. BERARDI	5.004
9-8-1	CNX LAND CO. LLC	2.908
9-8-2	CNX LAND CO. LLC	6000 SQ. FT.
9-8-12	GEORGE R. & SHIRLEY KOONTZ	73.351

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

NAD'83 S.P.C.(FT) N. 486,140.15 E. 1,639,159.21
 NAD'83 GEO. LAT-(N) 39.828798 LONG-(W) 80.672705
 NAD'83 UTM (M) N. 4,408,806.99 E. 528,007.48

LANDING POINT

NAD'83 S.P.C.(FT) N. 486,448.6 E. 1,636,193.4
 NAD'83 GEO. LAT-(N) 39.829538 LONG-(W) 80.683279
 NAD'83 UTM (M) N. 4,408,885.9 E. 527,102.4

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 475,475.0 E. 1,642,417.7
 NAD'83 GEO. LAT-(N) 39.799637 LONG-(W) 80.660613
 NAD'83 UTM (M) N. 4,405,574.4 E. 529,054.5

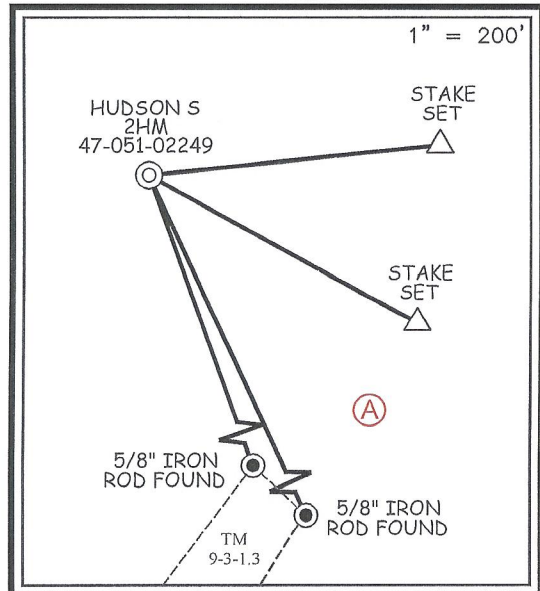
NOTES ON SURVEY

- 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'.

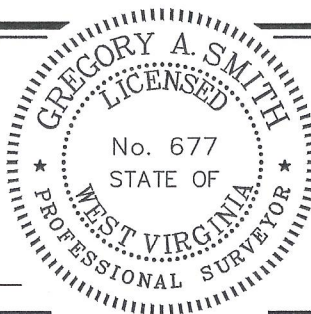


12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 slsvv.com

REFERENCES



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 JUNE 14, 20 19
 REVISED SEPTEMBER 18, 2023
 OPERATORS WELL NO. HUDSON S-2HM
 API WELL NO. 47 - 051 - 02249
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8911EQT-P2HM.dwg
HUDSON S-2HM REV5
 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: 6,865' / TMD: 21,609'

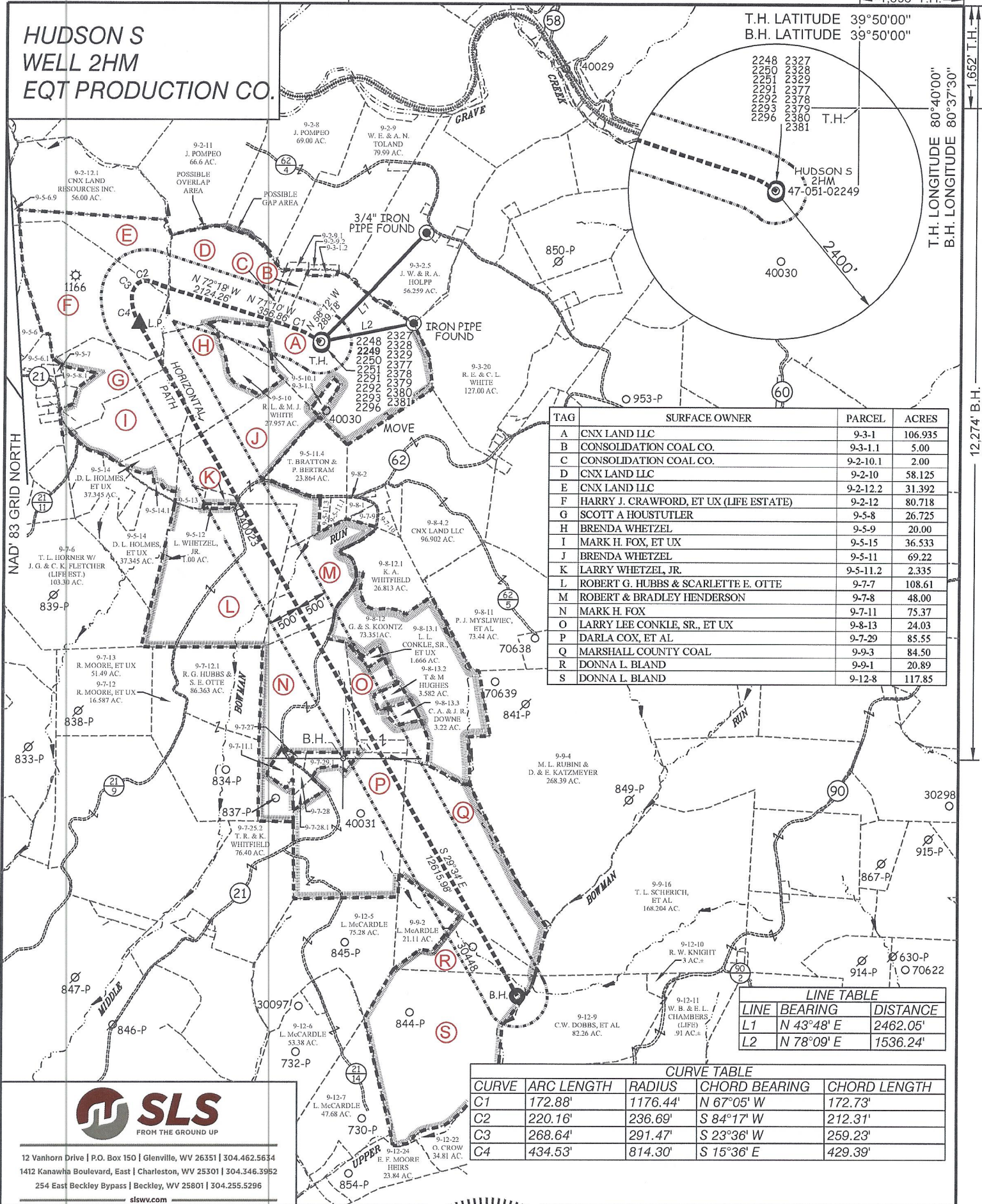
WELL OPERATOR EQT PRODUCTION COMPANYY DESIGNATED AGENT JOSEPH C. MALLOW
 ADDRESS 400 WOODCLIFF DRIVE ADDRESS 427 MIDSTATE DRIVE
CANNONBURG, PA 15317 CLARKSBURG, WV 26301

COUNTY NAME
PERMIT

**HUDSON S
WELL 2HM
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"



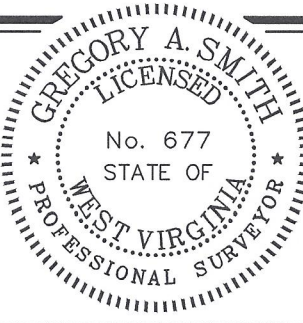
TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND LLC	9-3-1	106.935
B	CONSOLIDATION COAL CO.	9-3-1.1	5.00
C	CONSOLIDATION COAL CO.	9-2-10.1	2.00
D	CNX LAND LLC	9-2-10	58.125
E	CNX LAND LLC	9-2-12.2	31.392
F	HARRY J. CRAWFORD, ET UX (LIFE ESTATE)	9-2-12	80.718
G	SCOTT A HOUSTUTLER	9-5-8	26.725
H	BRENDA WHETZEL	9-5-9	20.00
I	MARK H. FOX, ET UX	9-5-15	36.533
J	BRENDA WHETZEL	9-5-11	69.22
K	LARRY WHETZEL, JR.	9-5-11.2	2.335
L	ROBERT G. HUBBS & SCARLETTE E. OTTE	9-7-7	108.61
M	ROBERT & BRADLEY HENDERSON	9-7-8	48.00
N	MARK H. FOX	9-7-11	75.37
O	LARRY LEE CONKLE, SR., ET UX	9-8-13	24.03
P	DARLA COX, ET AL	9-7-29	85.55
Q	MARSHALL COUNTY COAL	9-9-3	84.50
R	DONNA L. BLAND	9-9-1	20.89
S	DONNA L. BLAND	9-12-8	117.85

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 43°48' E	2462.05'
L2	N 78°09' E	1536.24'

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	172.88'	1176.44'	N 67°05' W	172.73'
C2	220.16'	236.69'	S 84°17' W	212.31'
C3	268.64'	291.47'	S 23°36' W	259.23'
C4	434.53'	814.30'	S 15°36' E	429.39'



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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 00-00
- SURFACE OWNER (SEE TABLE) (A)
- LEASE # (SEE WW-6A1)

COUNTY NAME
PERMIT

SCALE 1" = 2000' FILE NO. 8911EQT-P2HM.dwg
 DATE JUNE 14, 2019
 REVISED SEPTEMBER 18, 2023
 OPERATORS WELL NO. HUDSON S-2HM
 API WELL NO. 47-051-02249
 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