

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

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

API 47 - 051 - 02381 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-10HM (L027459)  
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 4,408,817.45 Easting 528,014.63  
Landing Point of Curve Northing 4,409,872.7 Easting 528,999.8  
Bottom Hole Northing 4,407,831.5 Easting 530,202.0

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 14.12 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 09/25/2022 Date drilling ceased 01/12/2024  
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 1775' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 888', 968' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

APPROVED

Reviewed by:

[Signature]  
02/07/2025

WR-35  
Rev. 8/23/13

API 47-051 - 02381

Farm name CNX LAND, LLC

Well number Hudson S-10HM (L027459)

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"	1299'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2448'	NEW	J-55 36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4", 8-1/2"	6"	17,542'	NEW	P-110 24#	N/A	Y
Tubing							
Packer type and depth set							

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Comment Details Production Cement job has a calculated TOC of 1200' 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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (GL)	WOC (hrs)
Conductor	CLASS A	464	15.6	1.21	561	0	8+
Surface	CLASS A	1345	16.0	1.13	1519	0	8
Coal							
Intermediate 1	CLASS A	877	15.6	1.18	1034	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2840	15.0	1.18	3351	1200'	8+
Tubing							

Drillers TD (ft) 17,556'      Loggers TD (ft) N/A  
 Deepest formation penetrated MARCELLUS      Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 1348'

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 9853' AND EVERY JOINT TO 1893' \_\_\_\_\_

WAS WELL COMPLETED AS SHOT HOLE     Yes     No      DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?     Yes     No      DETAILS \_\_\_\_\_

WERE TRACERS USED     Yes     No      TYPE OF TRACER(S) USED \_\_\_\_\_

02/07/2025



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PRODUCING FORMATION(S)

DEPTHS

Marcellus 6,746-6,982 TVD 9,475-17,556 MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 3040 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 3189 mcfpd Oil 0 bpd NGL 5 bpd Water 499 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 <sub>2</sub> 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 Universal Pressure Pumping, Inc.  
Address 13549 S. Moisertown Road City Meadville State PA Zip 16335

Please insert additional pages as applicable.

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

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

02/07/2025

WR-35  
Rev. 8/23/13

API 47- 051 - 02381 Farm name CNX LAND, LLC Well number Hudson S-10HM (L027459)

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 \_\_\_\_\_

Well # HUDSON S-10HM (L018008) Final Formations API# 47-051-02381				
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	968	968
Pittsburgh Coal	968	968	977	977
Sand/Shale	977	977	2,049	2,046
Big Lime	2,049	2,046	2,303	2,296
Big Injun	2,303	2,296	2,359	2,351
Sand/Shale	2,359	2,351	2,633	2,620
Berea	2,633	2,620	3,070	3,043
Sand/Shale	3,070	3,043	3,128	3,097
Gordon	3,128	3,097	3,197	3,162
Sand/Shale	3,197	3,162	3,338	3,292
Bayard	3,338	3,292	3,618	3,540
Sand/Shale	3,618	3,540	5,460	4,980
Alexander	5,460	4,980	5,908	5,328
Elks	5,908	5,328	8,408	6,399
Sonyea	8,408	6,399	8,707	6,508
Middlesex	8,707	6,508	8,790	6,540
Genesee	8,790	6,540	8,938	6,596
Geneseo	8,938	6,596	8,995	6,617
Tully	8,995	6,617	9,066	6,643
Hamilton	9,066	6,643	9,475	6,746
Marcellus	9,475	6,746	17,556	6,982

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**HUDSON  
WELL S-10HM  
EQT PRODUCTION CO.**

6,209' B.H. A.D. 1,672' T.H. A.D.

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"

1,618' T.H. A.D.  
4,882' B.H. A.D.

HUDSON S-10HM		
MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
3-12-22	MARSHALL COUNTY COAL CO	6.80
3-12-22	CONSOL MINING CO	145x130' LOT
3-12-24	KEITH PYLES	50x200' LOT
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 W. & RACHEL A. HOLPP	0.483
9-3-2-3	STEPHEN W. JOHNSON, III	0.591
9-3-2-4	JOHN W. & RACHEL A. HOLPP	0.618
9-3-4	GRANT M. & MALISSA D. CARTER	7.507
9-3-4-1	DANIEL WEST, ET UX	0.986
9-3-4-2	GRANT M. & MALISSA D. CARTER	0.720
9-3-4-3	JOHN W. & RACHEL A. HOLPP	0.870
9-3-6-1	TRAVIS POSTLEWHAIT	1.0468
9-3-18-1	LLOYD ANDREW BEE, ET UX	1.010
N/A	WV DOH (DB 318 PG 281)	N/A

**LEGEND**

AS DRILLED ——  
PROPOSED - - - -

B.H.  
A.D.

**AS DRILLED COORDINATES  
FOR WELL NO. 10HM**

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

NAD'83 S.P.C.(FT)	N. 486,174.08	E. 1,639,183.25
NAD'83 GEO.	LAT-(N) 39.828892	LONG-(W) 80.672621
NAD'83 UTM (M)	N. 4,408,817.45	E. 528,014.63
<b>LANDING POINT</b>		
NAD'83 S.P.C.(FT)	N. 489,582.9	E. 1,642,474.0
NAD'83 GEO.	LAT-(N) 39.838367	LONG-(W) 80.661082
NAD'83 UTM (M)	N. 4,409,872.7	E. 528,999.8
<b>BOTTOM HOLE</b>		
NAD'83 S.P.C.(FT)	N. 482,818.8	E. 1,648,307.1
NAD'83 GEO.	LAT-(N) 39.819934	LONG-(W) 80.647105
NAD'83 UTM (M)	N. 4,407,831.5	E. 530,202.0

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NAD'83 GEO. LAT-(N) 39.828892 LONG-(W) 80.672621  
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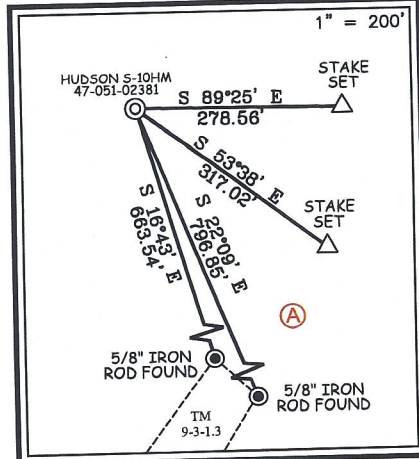
**LANDING POINT**

NAD'83 S.P.C.(FT) N. 489,620.21 E. 1,642,442.11  
NAD'83 GEO. LAT-(N) 39.838468 LONG-(W) 80.661177  
NAD'83 UTM (M) N. 4,409,883.9 E. 528,989.9

**BOTTOM HOLE**

NAD'83 S.P.C.(FT) N. 482,811.6 E. 1,648,304.0  
NAD'83 GEO. LAT-(N) 39.819914 LONG-(W) 80.647115  
NAD'83 UTM (M) N. 4,407,829.3 E. 530,201.1

**REFERENCES**



**NOTES ON SURVEY**

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

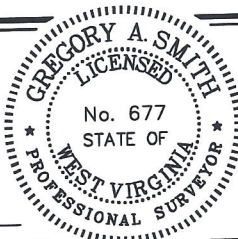


12 Vanhorns Drive | P.O. Box 150 | Glenview, WV 26351 | 304.462.5634  
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.5952  
254 East Beckley Bypass | Beckley, WV 26801 | 304.255.5296  
sllw.com

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 JANUARY 18, 20 24

REVISED \_\_\_\_\_, 20 \_\_\_\_\_

OPERATORS WELL NO. HUDSON S-10HM

API WELL NO. 47 - 051 - 02381

STATE 47 COUNTY 051 PERMIT 02381

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 8911-10HMAD.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: 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

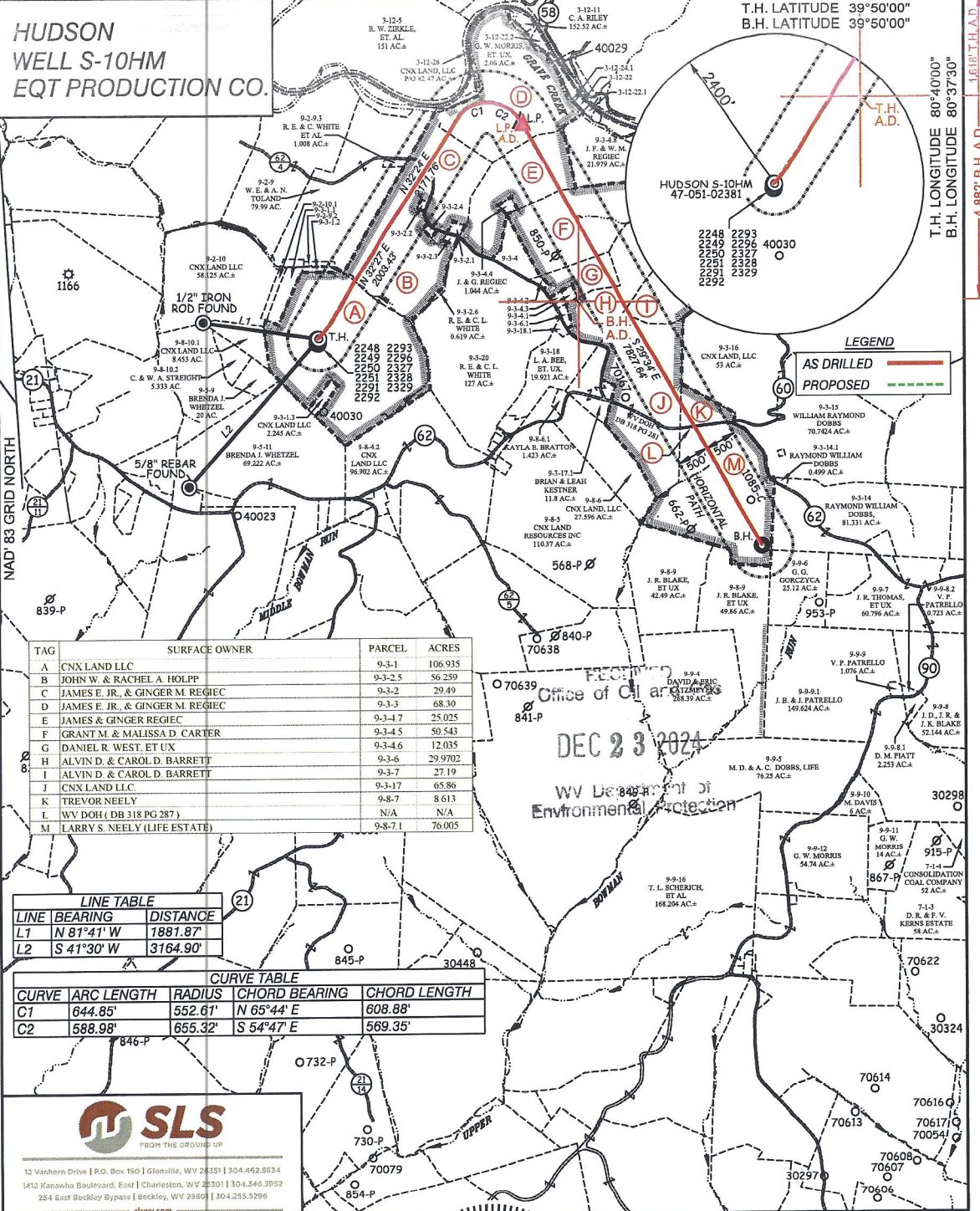
PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION MARCELLUS

ESTIMATED DEPTH TVD: 6,782' / TMD: 17,640'

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

02/07/2025

COUNTY NAME  
PERMIT



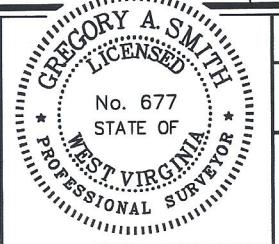
TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND LLC	9-3-1	106.935
B	JOHN W. & RACHEL A. HOLPP	9-3-2.5	56.259
C	JAMES E. JR. & GINGER M. REGIEC	9-3-2	29.49
D	JAMES E. JR. & GINGER M. REGIEC	9-3-3	68.30
E	JAMES & GINGER REGIEC	9-3-4.7	25.025
F	GRANT M. & MALISSA D. CARTER	9-3-4.5	50.543
G	DANIEL R. WEST, ET UX	9-3-4.6	12.035
H	ALVIN D. & CAROL D. BARRETT	9-3-6	29.9702
I	ALVIN D. & CAROL D. BARRETT	9-3-7	27.19
J	CNX LAND LLC	9-3-17	65.86
K	TREVOR NEELY	9-8-7	8.613
L	WV DOH (DB 318 PG 287)	N/A	N/A
M	LARRY S. NEELY (LIFE ESTATE)	9-8-7.1	76.005

LINE	BEARING	DISTANCE
L1	N 81°41' W	1881.87'
L2	S 41°30' W	3164.90'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	644.85'	552.61'	N 65°44' E	608.88'
C2	588.98'	655.32'	S 54°47' E	569.35'

**SLS**  
FROM THE GROUND UP

12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5034  
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952  
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
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API WELL 47-051-02381  
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)

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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Stage No.	Perforation Date	Stage Perforated From TMD Ft.	Stage Perforated To TMD Ft.	# of Perforations/Stage	Formation(s)
2	08/21/2024	17453	17273	40	Marcellus
3	08/21/2024	17254	17073	40	Marcellus
4	08/21/2024	17054	16874	40	Marcellus
5	08/22/2024	16855	16674	40	Marcellus
6	08/22/2024	16655	16475	40	Marcellus
7	08/22/2024	16456	16275	40	Marcellus
8	08/23/2024	16256	16076	40	Marcellus
9	08/23/2024	16057	15876	40	Marcellus
10	08/25/2024	15857	15677	40	Marcellus
11	08/25/2024	15658	15477	40	Marcellus
12	08/25/2024	15458	15278	40	Marcellus
13	08/26/2024	15259	15078	40	Marcellus
14	08/27/2024	15059	14879	40	Marcellus
15	08/27/2024	14860	14679	40	Marcellus
16	08/27/2024	14660	14480	40	Marcellus
17	08/28/2024	14461	14280	40	Marcellus
18	08/28/2024	14261	14081	40	Marcellus
19	08/28/2024	14062	13881	40	Marcellus
20	08/28/2024	13862	13682	40	Marcellus
21	08/28/2024	13663	13482	40	Marcellus
22	08/28/2024	13463	13283	40	Marcellus
23	08/29/2024	13264	13083	40	Marcellus
24	08/29/2024	13064	12884	40	Marcellus
25	08/29/2024	12865	12684	40	Marcellus
26	08/29/2024	12665	12485	40	Marcellus
27	08/29/2024	12466	12285	40	Marcellus
28	08/30/2024	12266	12086	40	Marcellus
29	08/30/2024	12067	11886	40	Marcellus
30	08/30/2024	11867	11687	40	Marcellus
31	08/30/2024	11668	11487	40	Marcellus
32	08/30/2024	11468	11288	40	Marcellus
33	08/30/2024	11269	11088	40	Marcellus
34	08/31/2024	11069	10889	40	Marcellus
35	08/31/2024	10870	10689	40	Marcellus
36	08/31/2024	10670	10490	40	Marcellus
37	08/31/2024	10471	10290	40	Marcellus
38	09/01/2024	10271	10091	40	Marcellus
39	09/01/2024	10072	9891	40	Marcellus
40	09/01/2024	9872	9692	40	Marcellus
41	09/01/2024	9673	9512	36	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	74	8629	7671	3992	249995	6513	
2	08/21/2024	100	8265	6921	4681	500050	10135	
3	08/21/2024	99	8403	6970	5412	500040	10059	
4	08/22/2024	101	7924	5721	4879	500019	10057	
5	08/22/2024	100	8004	5613	5062	499968	10032	
6	08/23/2024	98	8065	5918	4767	499918	9967	
7	08/23/2024	100	7973	6066	5235	500040	10020	
8	08/23/2024	95	8074	6322	4895	499973	10441	
9	08/24/2024	100	8135	5571	5018	499988	9963	
10	08/25/2024	100	7952	6062	4866	500001	9948	
11	08/26/2024	100	7857	5400	5109	499982	10352	
12	08/26/2024	91	8723	5487	4482	500223	10595	
13	08/27/2024	100	8163	5778	5037	499986	10320	
14	08/28/2024	100	7849	7936	5106	499904	10448	
15	08/25/2024	100	7755	5506	4914	499963	10414	
16	08/28/2024	100	7748	5191	5211	500056	9946	
17	08/28/2024	100	7914	5496	4833	499987	9990	
18	08/28/2024	100	7581	5783	5248	499997	9900	
19	08/28/2024	100	8009	6915	4889	500013	10354	
20	08/29/2024	99	8131	4228	5691	499954	9858	
21	08/29/2024	96	7729	5310	5412	499927	9873	
22	08/29/2024	92	7445	5453	5647	500050	9843	
23	08/29/2024	92	7326	7093	5003	500321	9864	
24	08/29/2024	83	8065	5779	4889	500308	10050	
25	08/29/2024	95	7358	5549	4900	499935	9823	
26	08/30/2024	96	7475	6337	4922	499947	9771	
27	08/30/2024	97	7488	5372	4944	500397	9951	
28	08/30/2024	98	7247	5493	4952	500409	9820	
29	08/30/2024	97	7602	5301	4931	500794	9821	
30	08/30/2024	100	7480	5458	5401	500016	9783	
31	08/31/2024	98	7050	6676	5331	499928	9750	
32	08/31/2024	95	6982	5423	5160	500337	9734	
33	08/31/2024	93	6919	5909	4799	500366	9700	
34	08/31/2024	93	6975	5310	4535	500491	9704	
35	08/31/2024	93	7214	5444	4647	500713	9753	
36	08/31/2024	94	7209	5517	4697	478662	10382	
37	09/01/2024	97	6873	5720	5109	500031	9628	
38	09/01/2024	98	7073	5748	4563	500852	9703	
39	09/01/2024	98	6989	5316	4846	500429	9733	
40	09/01/2024	100	6980	5654	5277	499970	9865	
41	09/02/2024	100	6810	4971	4465	449980	8720	

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02/07/2025

# Hydraulic Fracturing Fluid Product Component Information Disclosure



Job Start Date:	08/21/2024
Job End Date:	09/01/2024
State:	West Virginia
County:	Marshall
API Number:	47-051-02381-00-00
Operator Name:	EQT Production
Well Name and Number:	Hudson S-10HM
Latitude:	39.828892
Longitude:	-80.672621
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7011
Total Base Water Volume (gal)*:	16992486
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	87.39930	None
Sand (Proppant)	EQT	Proppant					
			Silica Substrate	14808-60-7	100.00000	12.44028	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ACRYLAMIDE-CHLORIDE SALT OF TRIMETHYLAMMONIO-ETHYL ACRYLATE COPOLYMER	69418-26-4	40.00000	0.01595	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ALKANES, C12-26-BRANCHED AND LINEAR	90622-53-0	40.00000	0.01595	None
Clearal 268	ChemStream	Biocide					
			Water	7732-18-5	80.00000	0.00880	None

02/07/2025

StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Water	7732-18-5	15.00000	0.00224	None
Enviro-Syn HCR-7000- WL	Fluid USA, Inc.	Synthetic Acid					
			FLUID-Acid-00001	Proprietary	20.00000	0.00151	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	0.00038	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ETHOXYLATED ALCOHOLS (C12-16)	68551-12-2	5.00000	0.00025	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor					
			AA/ATBS Co-polymer	9003-05-8	5.00000	0.00002	None
Clearal 268	ChemStream	Biocide					
			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

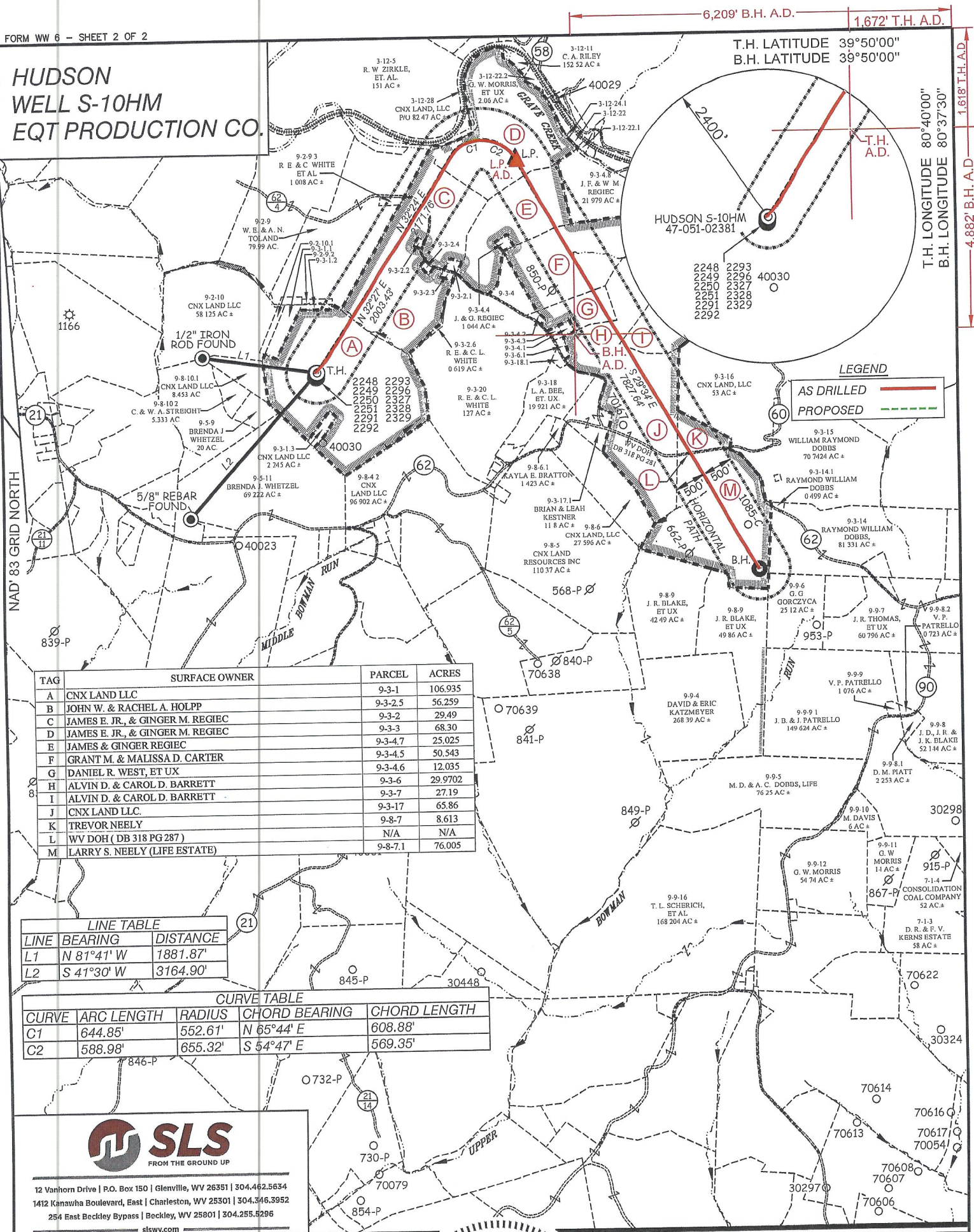
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS

\* 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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# HUDSON WELL S-10HM EQT PRODUCTION CO.



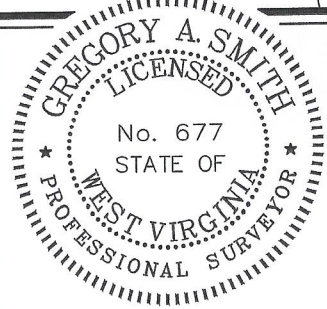
TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND LLC	9-3-1	106.935
B	JOHN W. & RACHEL A. HOLPP	9-3-2.5	56.259
C	JAMES E. JR., & GINGER M. REGIEC	9-3-2	29.49
D	JAMES E. JR., & GINGER M. REGIEC	9-3-3	68.30
E	JAMES & GINGER REGIEC	9-3-4.7	25.025
F	GRANT M. & MALISSA D. CARTER	9-3-4.5	50.543
G	DANIEL R. WEST, ET UX	9-3-4.6	12.035
H	ALVIN D. & CAROL D. BARRETT	9-3-6	29.9702
I	ALVIN D. & CAROL D. BARRETT	9-3-7	27.19
K	TREVOR NEELY	9-8-7	65.86
L	WV DOH (DB 318 PG 287)	N/A	N/A
M	LARRY S. NEELY (LIFE ESTATE)	9-8-7.1	76.005

LINE	BEARING	DISTANCE
L1	N 81°41' W	1881.87'
L2	S 41°30' W	3164.90'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	644.85'	552.61'	N 65°44' E	608.88'
C2	588.98'	655.32'	S 54°47' E	569.35'



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 | 204.255.5296  
 slsvw.com



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

P.S. 677 *Gregory A. Smith*

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. 8911-10HMAD.dwg

DATE JANUARY 18, 2024  
 REVISED \_\_\_\_\_, 20\_\_\_\_  
 OPERATORS WELL NO. HUDSON S-10HM  
 API WELL NO. 47-051-02381  
 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

**HUDSON  
WELL S-10HM  
EQT PRODUCTION CO.**

6,209' B.H. A.D. 1,672' 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"  
1,618' T.H. A.D.  
4,882' B.H. A.D.

HUDSON S-10HM		
MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
3-12-22	MARSHALL COUNTY COAL CO.	6.80
3-12-22.1	CONSOL MINING CO.	145x130' LOT
3-12-24.1	KEITH PYLES	50x200' LOT
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 W. & RACHEL A. HOLPP	0.483
9-3-2.3	STEPHEN W. JOHNSON, III	0.591
9-3-2.4	JOHN W. & RACHEL A. HOLPP	0.618
9-3-4	GRANT M. & MALISSA D. CARTER	7.507
9-3-4.1	DANIEL WEST, ET UX.	0.986
9-3-4.2	GRANT M. & MALISSA D. CARTER	0.720
9-3-4.3	JOHN W. & RACHEL A. HOLPP	0.870
9-3-6.1	TRAVIS POSTLEWHAIT	1.0468
9-3-18.1	LLOYD ANDREW BEE, ET UX.	1.010
N/A	WV DOH (DB 318 PG 281)	N/A

**LEGEND**

AS DRILLED 

PROPOSED 

**AS DRILLED COORDINATES FOR WELL NO. 10HM**

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

NAD'83 S.P.C.(FT)	N. 486,174.08	E. 1,639,183.25
NAD'83 GEO.	LAT-(N) 39.828892	LONG-(W) 80.672621
NAD'83 UTM (M)	N. 4,408,817.45	E. 528,014.63

**LANDING POINT**

NAD'83 S.P.C.(FT)	N. 489,582.9	E. 1,642,474.0
NAD'83 GEO.	LAT-(N) 39.838367	LONG-(W) 80.661062
NAD'83 UTM (M)	N. 4,409,872.7	E. 528,999.8

**BOTTOM HOLE**

NAD'83 S.P.C.(FT)	N. 482,818.8	E. 1,646,307.1
NAD'83 GEO.	LAT-(N) 39.819934	LONG-(W) 80.647105
NAD'83 UTM (M)	N. 4,407,831.5	E. 530,202.0

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

NAD'83 S.P.C.(FT)	N. 486,174.08	E. 1,639,183.25
NAD'83 GEO.	LAT-(N) 39.828892	LONG-(W) 80.672621
NAD'83 UTM (M)	N. 4,408,817.45	E. 528,014.63

**LANDING POINT**

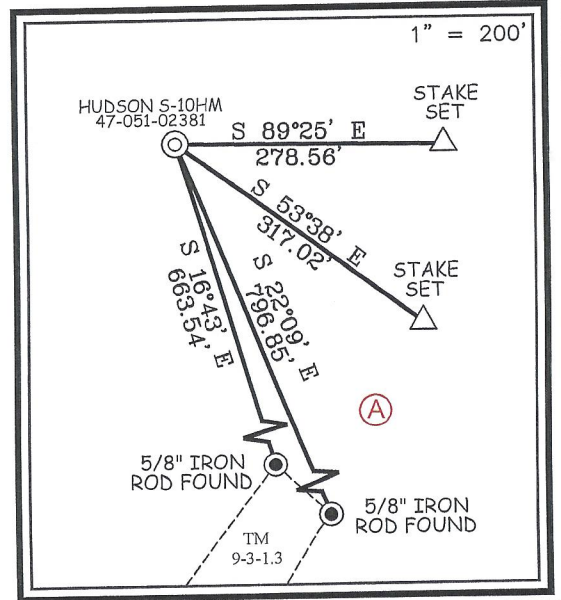
NAD'83 S.P.C.(FT)	N. 489,620.21	E. 1,642,442.11
NAD'83 GEO.	LAT-(N) 39.838468	LONG-(W) 80.661177
NAD'83 UTM (M)	N. 4,409,883.9	E. 528,989.9

**BOTTOM HOLE**

NAD'83 S.P.C.(FT)	N. 482,811.6	E. 1,646,304.0
NAD'83 GEO.	LAT-(N) 39.819914	LONG-(W) 80.647115
NAD'83 UTM (M)	N. 4,407,829.3	E. 530,201.1

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Environmental Protection

**REFERENCES**



**NOTES ON SURVEY**

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

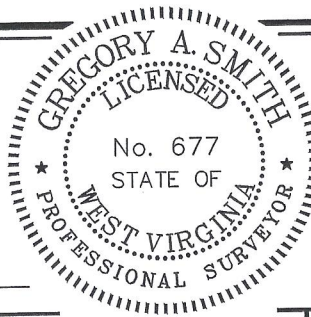


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1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952  
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
slsvv.com

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 JANUARY 18, 20 24  
 REVISED \_\_\_\_\_, 20 \_\_\_\_\_  
 OPERATORS WELL NO. HUDSON S-10HM  
 API WELL NO. 47 - 051 - 02381  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8911-10HMAD.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 021072025

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: 17,640'

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