

Well Operator's Report of Well Work



Well Number: Willett S-6HM (L018027)

API: 47 - 051 - 02418

Submission: Initial Amended

Notes: Original

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Office of Oil and Gas
AUG 2 2024
WV Department of
Environmental Protection

11/08/2024

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

API 47-051-02418 County Marshall District Meade
Quad Glen Easton 7.5' Pad Name WILLETT Field/Pool Name N/A
Farm name CNX Land, LLC Well Number Willett S-6HM (L018027)
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 4,408,173.24 Easting 529,424.80
Landing Point of Curve Northing 4,408,198.9 Easting 530,305.4
Bottom Hole Northing 4,404,937.9 Easting 532,220.4

Elevation (ft) 1310' 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 13.72 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 12/07/2021 Date drilling commenced 06/06/2022 Date drilling ceased 10/01/2023
Date completion activities began 03/26/2024 Date completion activities ceased 05/14/2024
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 991' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1463' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 888', 986' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

APPROVED
2024
West Virginia Department of Environmental Protection

Reviewed by:
[Signature]
9/2/2024

11/08/2024

API 47- 051 - 02418

Farm name CNX Land, LLC

Well number Willett S-6HM (L018027)

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"	1108'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2899'	NEW	J-55 36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4", 8-1/2"	5-1/2"	20,484'	NEW	P-110 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 1666' 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	400	15.6	1.21	484	0	8+
Surface	CLASS A	1205	15.6	1.18	1421	0	8
Coal							
Intermediate 1	CLASS A	885	15.0	1.38	1221	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3725	15.0	1.18	4395	1666'	8+
Tubing							

Drillers TD (ft) 20,501' Loggers TD (ft) N/A
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 1667'

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 AND EVERY JOINT TO 16'

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

11/08/2024

WR-35
Rev. 8/23/13

Page ___ of ___

API 47- 051 - 02418 Farm name CNX Land, LLC Well number Willett S-6HM (L018027)

Drilling Contractor Falcon (Rig 29)
Address 1120 US-119 City Indiana State PA Zip 15701

Logging Company Nzone Guidance, LLC
Address 140 Falcon 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 # WILLETT S-6HM (L017985) Final Formations API# 47-051-02418					
Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)	
Sand/Shale	1	1	889	888	
Sewickley	889	888	891	890	
Sand/Shale	891	890	987	986	
Pittsburgh	987	986	991	990	
Sand/Shale	991	990	2,099	2,095	
Big Lime	2,099	2,095	2,396	2,384	
Big Injun	2,396	2,384	2,451	2,436	
Sand/Shale	2,451	2,436	2,726	2,699	
Berea	2,726	2,699	3,144	3,107	
Gordon	3,144	3,107	3,221	3,181	
50F	3,221	3,181	3,339	3,296	
Bayard	3,339	3,296	5,515	5,221	
Alexander	5,515	5,221	5,958	5,565	
Elks	5,958	5,565	6,692	6,130	
Sonyea	6,692	6,130	6,975	6,345	
Middlesex	6,975	6,345	7,101	6,441	
Genesee	7,101	6,441	7,368	6,634	
Geneseo	7,368	6,634	7,552	6,744	
Tully	7,552	6,744	7,594	6,766	
Hamilton	7,594	6,766	7,872	6,870	
Marcellus	7,872	6,870	20,501	7,046	

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**WILLETT S LEASE
6HM
EQT PRODUCTION CO.**

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

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

NAD'83 S.P.C.(FT) N. 483,982.78 E. 1,643,775.37
NAD'83 GEO. LAT-(N) 39.823040 LONG-(W) 80.656171
NAD'83 UTM (M) N. 4,408,173.24 E. 529,424.80

LANDING POINT

NAD'83 S.P.C.(FT) N. 484,008.5 E. 1,646,662.7
NAD'83 GEO. LAT-(N) 39.823212 LONG-(W) 80.645893
NAD'83 UTM (M) N. 4,408,195.8 E. 530,304.3

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 473,220.8 E. 1,652,781.5
NAD'83 GEO. LAT-(N) 39.793811 LONG-(W) 80.623629
NAD'83 UTM (M) N. 4,404,940.4 E. 532,223.4

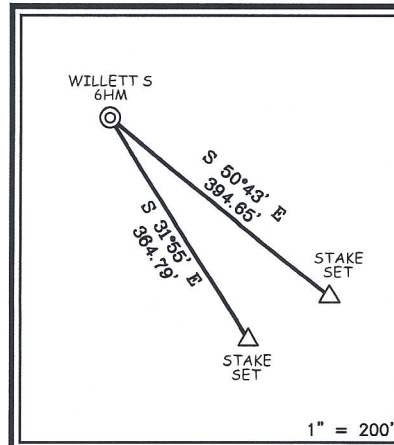
T.H. LONGITUDE 80°37'30"
B.H. LONGITUDE 80°35'00"

A.D.
T.H.

TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND, LLC	9-8-6	27.596
B	CNX LAND, LLC	9-3-17	65.86
C	LARRY S. NEELY - LIFE	9-8-7.1	76.005
D	RAYMOND DEWAINÉ DOBBS, ET AL	9-3-15	70.7424
E	RAYMOND DEWAINÉ DOBBS, ET AL	9-3-14	81.331
F	RAYMOND DEWAINÉ DOBBS, ET AL	9-9-7.1	9.00
G	JAMES R. THOMAS, ET UX	9-9-7	60.796
H	JOSEPH B. & JUDITH PATRELLO	9-9-9.1	149.924
I	JAMES D. BLAKE, ET AL	9-9-8	52.144
J	VINCENT PATRELLO	9-9-8.2	0.723
K	DIANA MAE PIATT	9-9-8.1	2.253
L	CNX LAND, LLC	7-1-4	52.00
M	KAREN S. EVANS & JUDY KAY MATTHEWS	7-1-5	116.915
N	GEO A. BURRIS	7-8-14	95.44
O	BLAINE E. STERN, JR.	7-8-13	104.92

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
3-19-82	XCL PROCESSING OPERATING LLC	14.89
7-1-7.1	NANCY L. PARSONS	0.5
9-3-13	XCL PROCESSING OPERATING LLC	28.00
9-3-13.1	XCL PROCESSING OPERATING LLC	10.00
9-3-17.1	BRIAN & LEAH KESTNER	11.8
9-8-5.2	AMY EVANS & KAREN WHETZAL	4.586
9-8-6.1	KAYLA E. BRATTON	1.423
9-9-7.2	XCL PROCESSING OPERATING LLC	3.907
9-9-7.3	JEFFREY B. THOMAS	1.297
9-9-9	VINCENT P. PATRELLO	1.076

REFERENCES



NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPD MARK SCALE IS 1"=200'
- PLAT UPDATED TO SHOW AS DRILLED PATH. AS DRILLED DATA PROVIDED BY EQT PRODUCTION CO.

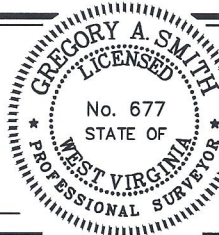


12 Vanshoer Drive | P.O. Box 180 | Glenville, WV 26031 | 304.462.4654
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.1952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.3296
sllw.com

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 SEPTEMBER 8, 20 21

REVISED OCTOBER 13, 20 23

OPERATORS WELL NO. WILLETT S 6HM

API WELL NO. 47 - 051 - 02418
STATE COUNTY PERMIT

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MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 8939-P6HM AD.dwg
WILLETT S 6HM-REV 2
HORIZONTAL & VERTICAL SCALE 1" = 2000'
CONTROL DETERMINED BY: DGPS (SURVEY GRADE TIE TO CORS NETWORK)

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 1,310.03' WATERSHED TRIBUTARY OF UPPER BOWMAN RUN

DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER CNX LAND LLC ACREAGE 27.596±

ROYALTY OWNER APPALACHIAN BASIN MINERALS, LP, ET AL ACREAGE 27.596±

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: 6,987' / TMD: 20,385'

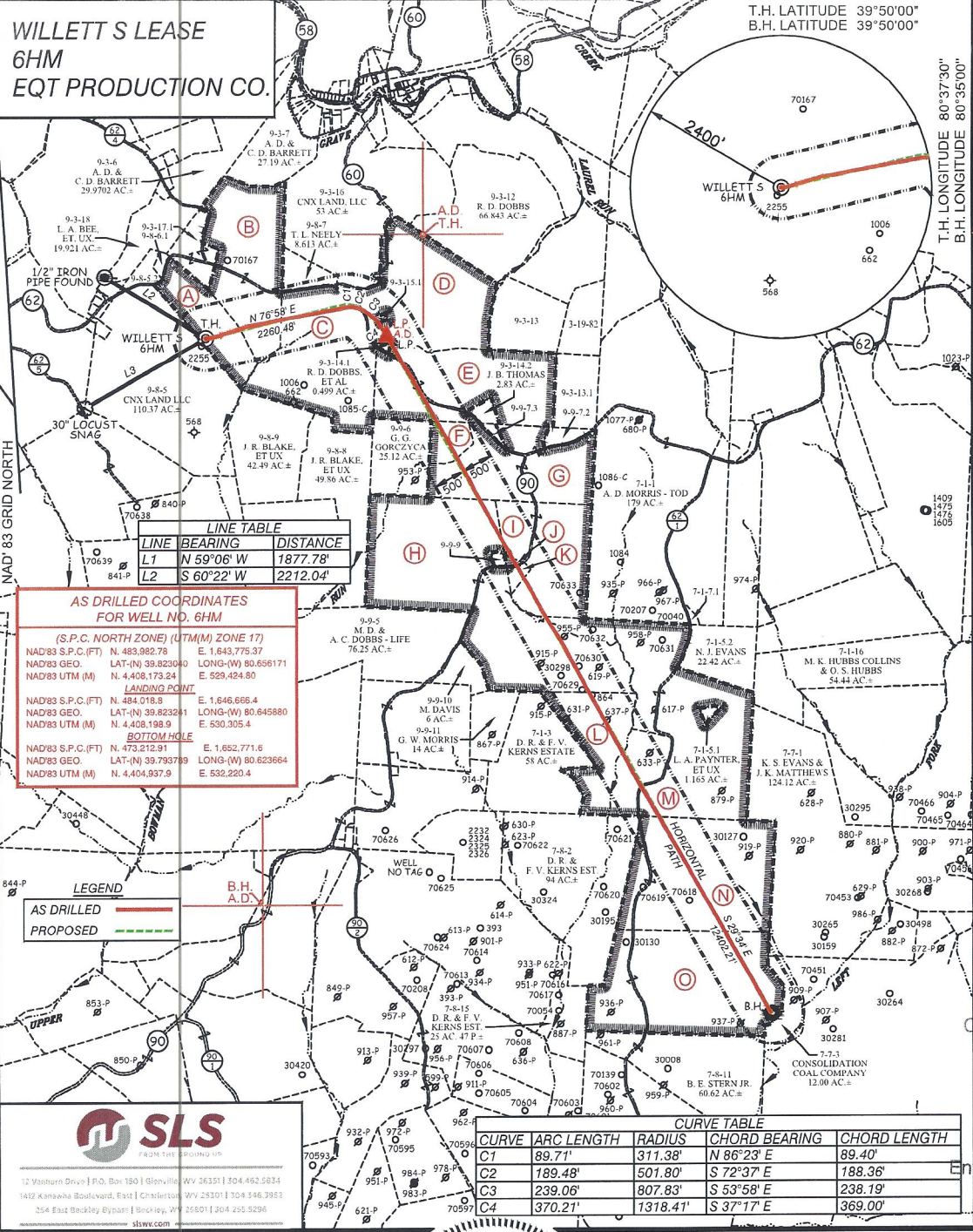
WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT JOSEPH C. MALLOW

ADDRESS 400 WOODCLIFF DRIVE ADDRESS 427 MIDSTATE DRIVE

CANONSBURG, PA 15317 CLARKSBURG, WV 26301

COUNTY NAME
PERMIT

11/08/2024



**WILLETT S LEASE
6HM
EQT PRODUCTION CO.**

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

T.H. LONGITUDE 80°37'30"
B.H. LONGITUDE 80°35'00"

LINE TABLE

LINE	BEARING	DISTANCE
L1	N 59°06' W	1877.78'
L2	S 60°22' W	2212.04'

AS DRILLED COORDINATES FOR WELL NO. 6HM

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

NAD83 S.P.C.(FT)	N. 483,982.78	E. 1,643,775.37
NAD83 GEO.	LAT-(N) 39.823040	LONG-(W) 80.656171
NAD83 UTM (M)	N. 4,408,173.24	E. 529,424.80

LANDING POINT

NAD83 S.P.C.(FT)	N. 484,018.9	E. 1,646,666.4
NAD83 GEO.	LAT-(N) 39.823211	LONG-(W) 80.645880
NAD83 UTM (M)	N. 4,408,198.9	E. 530,305.4

BOTTOM HOLE

NAD83 S.P.C.(FT)	N. 473,212.91	E. 1,652,771.6
NAD83 GEO.	LAT-(N) 39.793799	LONG-(W) 80.623664
NAD83 UTM (M)	N. 4,404,937.9	E. 532,220.4

LEGEND

AS DRILLED ———

PROPOSED - - - - -

12 Westmore Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5834
1402 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.2952
254 East Brockley Express | Beckley, WV 26001 | 204.295.5296
sllw.com

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	89.71'	311.38'	N 86°23' E	89.40'
C2	189.48'	501.80'	S 72°37' E	188.36'
C3	239.06'	807.83'	S 53°58' E	238.19'
C4	370.21'	1318.41'	S 37°17' E	369.00'

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NAD83 GEO.	LAT-(N) 39.793811	LONG-(W) 80.623629
NAD83 UTM (M)	N. 4,404,940.4	E. 532,223.4

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*

SCALE 1" = 2000' FILE NO. 8939-P6HM AD.dwg
WILLETT S 6HM-REV2

DATE SEPTEMBER 8, 20 21
REVISED OCTOBER 13, 20 23

OPERATORS WELL NO. WILLETT S 6HM
API WELL 47 — 051 — 02418
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

COUNTY NAME
PERMIT

11/08/2024

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	03/27/2024	20391	20239	48	Marcellus
3	03/27/2024	20209	20057	48	Marcellus
4	03/27/2024	20027	19875	48	Marcellus
5	03/30/2024	19846	19693	48	Marcellus
6	04/01/2024	19664	19511	48	Marcellus
7	04/02/2024	19482	19330	48	Marcellus
8	04/02/2024	19300	19148	48	Marcellus
9	04/03/2024	19118	18966	48	Marcellus
10	04/03/2024	18937	18784	48	Marcellus
11	04/03/2024	18755	18602	48	Marcellus
12	04/04/2024	18573	18421	48	Marcellus
13	04/04/2024	18391	18239	48	Marcellus
14	04/06/2024	18209	18057	48	Marcellus
15	04/06/2024	18028	17875	48	Marcellus
16	04/07/2024	17846	17693	48	Marcellus
17	04/07/2024	17664	17512	48	Marcellus
18	04/08/2024	17482	17330	48	Marcellus
19	04/08/2024	17300	17148	48	Marcellus
20	04/09/2024	17119	16966	48	Marcellus
21	04/09/2024	16937	16784	48	Marcellus
22	04/09/2024	16755	16603	48	Marcellus
23	04/10/2024	16573	16421	48	Marcellus
24	04/10/2024	16391	16239	48	Marcellus
25	04/11/2024	16210	16057	48	Marcellus
26	04/11/2024	16028	15875	48	Marcellus
27	04/12/2024	15846	15694	48	Marcellus
28	04/12/2024	15664	15512	48	Marcellus
29	04/13/2024	15482	15330	48	Marcellus
30	04/13/2024	15301	15148	48	Marcellus
31	04/14/2024	15119	14966	48	Marcellus
32	04/14/2024	14937	14785	48	Marcellus
33	04/15/2024	14755	14603	48	Marcellus
34	04/16/2024	14573	14421	48	Marcellus
35	04/17/2024	14392	14239	48	Marcellus
36	04/17/2024	14210	14057	48	Marcellus
37	04/18/2024	14028	13876	48	Marcellus
38	04/18/2024	13846	13694	48	Marcellus
39	04/19/2024	13664	13512	48	Marcellus
40	04/19/2024	13483	13330	48	Marcellus
41	04/19/2024	13301	13148	48	Marcellus
42	04/19/2024	13119	12967	48	Marcellus
43	04/19/2024	12937	12785	48	Marcellus
44	04/19/2024	12755	12603	48	Marcellus

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45	04/20/2024	12574	12421	48	Marcellus
46	04/20/2024	12392	12239	48	Marcellus
47	04/20/2024	12210	12058	48	Marcellus
48	04/21/2024	12028	11876	48	Marcellus
49	04/21/2024	11846	11694	48	Marcellus
50	04/21/2024	11665	11512	48	Marcellus
51	04/22/2024	11483	11330	48	Marcellus
52	04/22/2024	11301	11149	48	Marcellus
53	04/22/2024	11119	10967	48	Marcellus
54	04/23/2024	10937	10785	48	Marcellus
55	04/23/2024	10756	10603	48	Marcellus
56	04/24/2024	10574	10421	48	Marcellus
57	04/24/2024	10392	10240	48	Marcellus
58	04/24/2024	10210	10058	48	Marcellus
59	04/25/2024	10028	9876	48	Marcellus
60	04/25/2024	9847	9694	48	Marcellus
61	04/25/2024	9665	9512	48	Marcellus
62	04/26/2024	9483	9331	48	Marcellus
63	04/27/2024	9301	9149	48	Marcellus
64	04/28/2024	9119	8967	48	Marcellus
65	04/28/2024	8938	8785	48	Marcellus
66	04/28/2024	8756	8603	48	Marcellus
67	04/28/2024	8574	8422	48	Marcellus
68	04/29/2024	8392	8240	48	Marcellus
69	04/29/2024	8210	8058	48	Marcellus
70	04/30/2024	8029	7906	40	Marcellus

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Stimulation Data

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11/08/2024

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	03/27/2024	88	8993	0	3587	246980	6861.71	
2	03/27/2024	100	8885	8931	4763	450200	9580.19	
3	03/28/2024	100	8998	0	4555	450211	9239.07	
4	03/28/2024	97	8740	8827	5440	451950	9409.79	
5	04/02/2024	98	8718	8820	4943	436323	9327.29	
6	04/02/2024	99	8736	0	4804	450360	9267.12	
7	04/02/2024	100	8679	8884	4925	450670	9283.07	
8	04/03/2024	101	8310	0	5366	453288	9259.36	
9	04/03/2024	100	9005	9161	4969	451566	9221.45	
10	04/03/2024	85	8132	9336	5539	435080	9115.24	
11	04/04/2024	97	8570	0	5010	449260	9233.21	
12	04/04/2024	90	9033	9057	4965	450522	9252.00	
13	04/06/2024	100	8488	9357	5491	450453	9211.81	
14	04/07/2024	100	8469	9383	5321	450240	9242.45	
15	04/07/2024	98	8706	8922	5370	450452	9227.50	
16	04/08/2024	99	8554	8988	5044	450160	9205.71	
17	04/08/2024	99	8299	9252	5239	450525	9180.00	
18	04/08/2024	100	8434	9207	5198	450131	9436.69	
19	04/09/2024	98	8610	9514	5125	450160	9167.38	
20	04/09/2024	99	8329	8815	5072	450241	9197.64	
21	04/10/2024	98	8570	8867	4915	450791	9132.12	
22	04/10/2024	96	8556	8237	5168	450661	9162.95	
23	04/11/2024	100	8335	9321	5431	450253	9178.26	
24	04/11/2024	99	8649	9275	4615	450413	9129.14	
25	04/11/2024	100	8376	9110	5128	450486	9389.38	
26	04/12/2024	99	8453	9410	5012	450644	9200.57	
27	04/12/2024	98	8485	8547	4653	450321	9486.33	
28	04/13/2024	99	8531	9066	5412	449580	9065.57	
29	04/13/2024	96	8598	9136	5117	448843	9115.19	
30	04/14/2024	97	8641	8951	4454	449398	9100.67	
31	04/14/2024	93	8654	8593	4733	450095	9134.29	
32	04/15/2024	100	7940	7893	5388	450105	9237.74	
33	04/16/2024	76	8605	9306	4044	450409	8864.76	
34	04/17/2024	38	8499	0	4145	448580	23530.93	
35	04/17/2024	98	7755	0	5041	449663	9335.45	
36	04/18/2024	100	8332	7708	4630	449922	9120.31	
37	04/18/2024	99	8075	8136	4714	450060	9112.17	
38	04/19/2024	100	7602	8136	5103	450786	9059.83	
39	04/19/2024	100	7596	8660	4789	452529	9115.14	
40	04/19/2024	100	7877	0	4721	450900	9112.21	
41	04/19/2024	100	7821	0	5050	448620	9092.21	
42	04/19/2024	100	7847	0	4896	449720	9227.14	
43	04/20/2024	100	7751	9377	4823	449874	9009.33	

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44	04/20/2024	101	7660	8965	5149	452263	9073.26
45	04/20/2024	84	8583	0	4446	449836	9562.79
46	04/20/2024	100	7764	9133	4980	450894	9012.90
47	04/21/2024	100	7509	8839	5240	451349	9025.60
48	04/21/2024	42	7288	0	5620	450400	11350.90
49	04/22/2024	100	7487	9050	5167	451093	9061.93
50	04/22/2024	100	7660	8678	4697	447574	8984.19
51	04/22/2024	99	7894	0	4320	450020	8999.14
52	04/23/2024	101	7820	8821	4636	451270	8954.71
53	04/23/2024	100	7522	8742	5355	412660	9054.71
54	04/23/2024	100	7306	7954	4636	450010	9243.19
55	04/24/2024	100	7912	9107	4846	450705	9298.86
56	04/24/2024	101	8085	9208	5127	450030	8936.07
57	04/25/2024	100	7776	9011	4856	449917	8973.52
58	04/25/2024	100	7304	8453	5279	450373	8948.74
59	04/25/2024	100	7461	9414	5205	450040	9082.33
60	04/26/2024	100	7498	8354	4714	448536	9001.26
61	04/26/2024	100	7646	8544	4560	450039	9179.60
62	04/27/2024	82	7913	8121	4598	449954	12585.62
63	04/28/2024	99	7635	8084	5140	450482	8761.29
64	04/28/2024	100	7532	8944	5621	450326	8909.29
65	04/28/2024	100	7758	6947	4690	450160	8920.07
66	04/28/2024	100	7269	8080	5149	450131	8982.90
67	04/29/2024	100	7226	6822	4920	450020	9083.26
68	04/29/2024	100	7835	9013	4809	450094	8968.07
69	04/30/2024	94	7882	8224	5100	450198	8869.55
70	04/30/2024	89	7176	8204	4829	373551	7503.81

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	03/26/2024
Job End Date:	04/30/2024
State:	West Virginia
County:	Marshall
API Number:	47-051-02418-00-00
Operator Name:	EQT Production
Well Name and Number:	Willett S-6HM
Latitude:	39.82304
Longitude:	-80.656171
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7079
Total Base Water Volume (gal)*:	27558633.06
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	87.87051	None
Sand (Proppant)	EQT	Proppant					
			Silica Substrate	14808-60-7	100.00000	11.91085	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Copolymer of 2-propenamide	Proprietary	30.00000	0.01196	None
Clearal 268	ChemStream	Biocide					
			Non-hazardous substances	Proprietary	80.00000	0.00889	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor					
			Non-hazardous substances	Proprietary	90.00000	0.00779	None
StimSTREAM	ChemStream	Friction					

11/08/2024

FR 9800		Reducer					
			Petroleum Distillate	64742-47-8	20.00000	0.00531	None
HCR-7000 WL	Fluid Energy Group Ltd.	Synthetic Acid					
			Proprietary	Proprietary	20.00000	0.00249	None
HCR-7000 WL	Fluid Energy Group Ltd.	Synthetic Acid					
			Proprietary	Proprietary	10.00000	0.00062	None
Clearal 268	ChemStream	Biocide					
			Glutaraldehyde	111-30-8	20.00000	0.00056	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor					
			Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid) (BHMT)	34690-00-1	10.00000	0.00010	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Oleic Acid Diethanolamide	93-83-4	2.00000	0.00005	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00005	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
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Ammonium chloride ((NH4)Cl)	12125-02-9	1.00000	0.00001	None
Clearal 268	ChemStream	Biocide					
			Ethanol	64-17-5	1.50000	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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 11/08/2024

11,332' B.H.

8,755' T.H.

WILLETT S LEASE 6HM EQT PRODUCTION CO.

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

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)		
NAD'83 S.P.C.(FT)	N. 483,982.78	E. 1,643,775.37
NAD'83 GEO.	LAT-(N) 39.823040	LONG-(W) 80.656171
NAD'83 UTM (M)	N. 4,408,173.24	E. 529,424.80
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 484,008.5	E. 1,646,662.7
NAD'83 GEO.	LAT-(N) 39.823212	LONG-(W) 80.645893
NAD'83 UTM (M)	N. 4,408,195.8	E. 530,304.3
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 473,220.8	E. 1,652,781.5
NAD'83 GEO.	LAT-(N) 39.793811	LONG-(W) 80.623629
NAD'83 UTM (M)	N. 4,404,940.4	E. 532,223.4

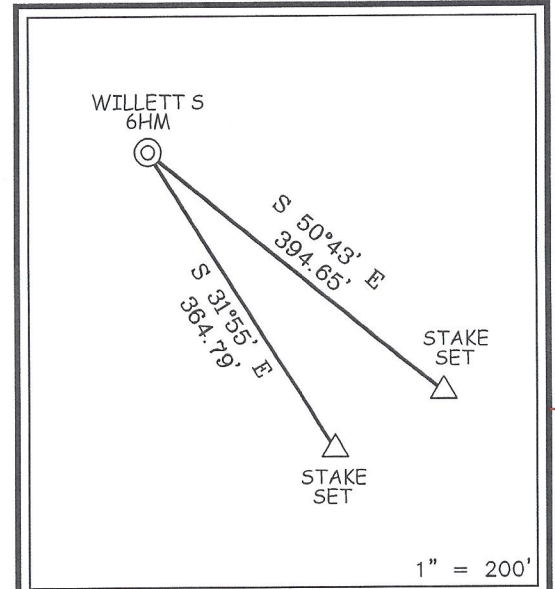
T.H. LONGITUDE 80°37'30"
B.H. LONGITUDE 80°35'00"

A.D.
T.H.

TAG	SURFACE OWNER	PARCEL	ACRES
A	CNX LAND, LLC	9-8-6	27.596
B	CNX LAND, LLC	9-3-17	65.86
C	LARRY S. NEELY - LIFE	9-8-7.1	76.005
D	RAYMOND DEWAINÉ DOBBS, ET AL	9-3-15	70.7424
E	RAYMOND DEWAINÉ DOBBS, ET AL	9-3-14	81.331
F	RAYMOND DEWAINÉ DOBBS, ET AL	9-9-7.1	9.00
G	JAMES R. THOMAS, ET UX	9-9-7	60.796
H	JOSEPH B. & JUDITH PATRELLO	9-9-9.1	149.924
I	JAMES D. BLAKE, ET AL	9-9-8	52.144
J	VINCENT PATRELLO	9-9-8.2	0.723
K	DIANA MAE PIATT	9-9-8.1	2.253
L	CNX LAND, LLC	7-1-4	52.00
M	KAREN S. EVANS & JUDY KAY MATTHEWS	7-1-5	116.915
N	GEO A. BURRIS	7-8-14	95.44
O	BLAINE E. STERN, JR.	7-8-13	104.92

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
3-19-82	XCL PROCESSING OPERATING LLC	14.89
7-1-7.1	NANCY L. PARSONS	0.5
9-3-13	XCL PROCESSING OPERATING LLC	28.00
9-3-13.1	XCL PROCESSING OPERATING LLC	10.00
9-3-17.1	BRIAN & LEAH KESTNER	11.8
9-8-5.2	AMY EVANS & KAREN WHETZAL	4.586
9-8-6.1	KAYLA E. BRATTON	1.423
9-9-7.2	XCL PROCESSING OPERATING LLC	3.907
9-9-7.3	JEFFREY B. THOMAS	1.297
9-9-9	VINCENT P. PATRELLO	1.076

REFERENCES



B.H.
A.D.

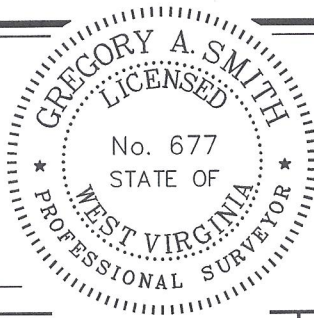
NOTES ON SURVEY



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.4634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slswv.com

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

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 SEPTEMBER 8, 20 21
 REVISED OCTOBER 13, 20 23
 OPERATORS WELL NO. WILLETT S 6HM
 API WELL NO. 47 — 051 — 02418
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8939-P6HM AD.dwg
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY: DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'
WILLETT S 6HM-REV 2

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 1,310.03' WATERSHED TRIBUTARY OF UPPER BOWMAN RUN
 DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER CNX LAND LLC ACREAGE 27.596±
 ROYALTY OWNER APPALACHIAN BASIN MINERALS, LP, ET AL ACREAGE 11/08/2024
 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: 6,987' / TMD: 20,385'

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

14,404' B.H.

COUNTY NAME
PERMIT

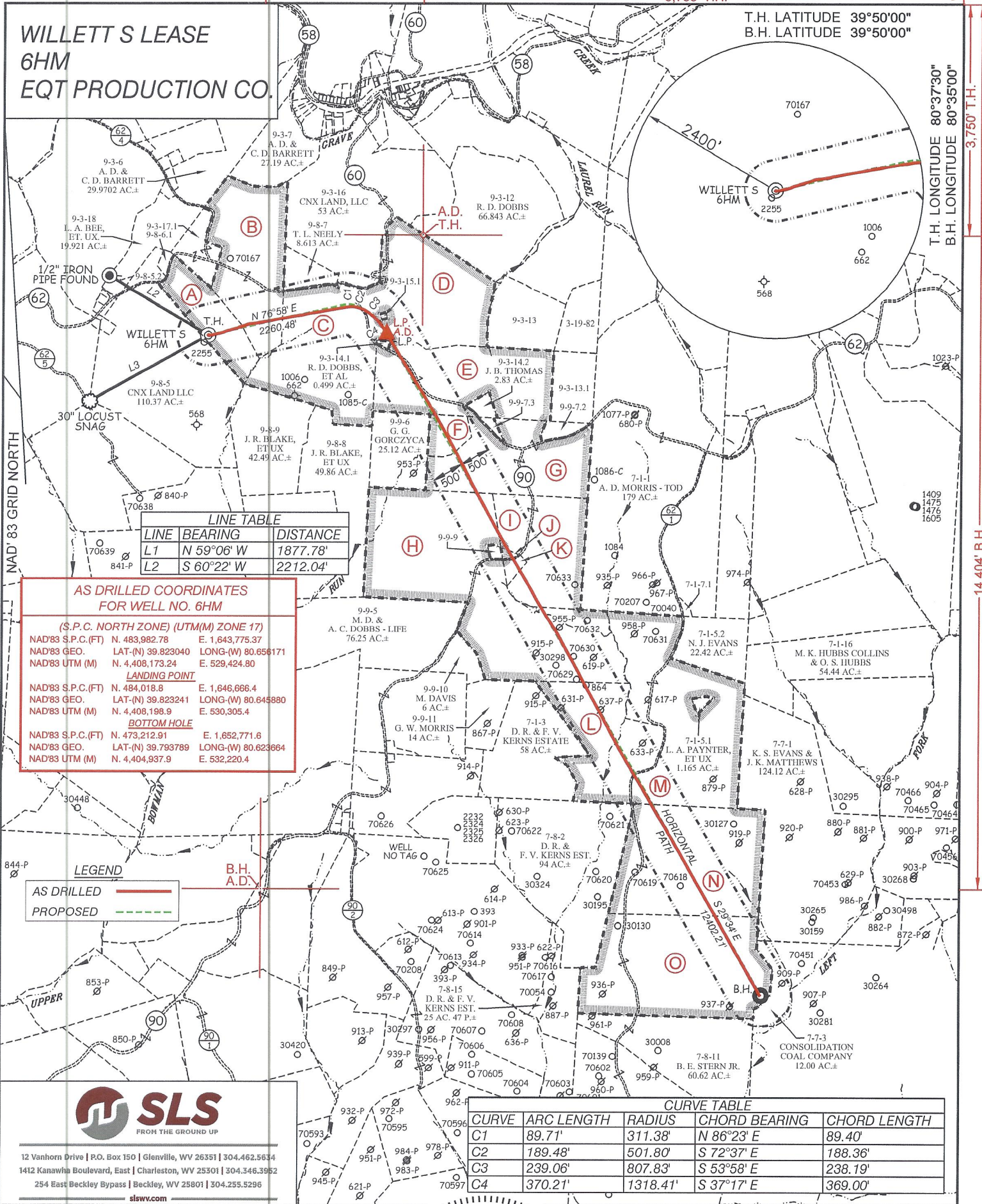
11,332' B.H.

8,755' T.H.

**WILLETT S LEASE
6HM
EQT PRODUCTION CO.**

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

T.H. LONGITUDE 80°37'30"
B.H. LONGITUDE 80°35'00"



LINE	BEARING	DISTANCE
L1	N 59°06' W	1877.78'
L2	S 60°22' W	2212.04'

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

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

NAD'83 S.P.C.(FT)	N. 483,982.78	E. 1,643,775.37
NAD'83 GEO.	LAT-(N) 39.823040	LONG-(W) 80.656171
NAD'83 UTM (M)	N. 4,408,173.24	E. 529,424.80

LANDING POINT

NAD'83 S.P.C.(FT)	N. 484,018.8	E. 1,646,666.4
NAD'83 GEO.	LAT-(N) 39.823241	LONG-(W) 80.645880
NAD'83 UTM (M)	N. 4,408,198.9	E. 530,305.4

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 473,212.91	E. 1,652,771.6
NAD'83 GEO.	LAT-(N) 39.793789	LONG-(W) 80.623664
NAD'83 UTM (M)	N. 4,404,937.9	E. 532,220.4

LEGEND

AS DRILLED	
PROPOSED	



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

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	89.71'	311.38'	N 86°23' E	89.40'
C2	189.48'	501.80'	S 72°37' E	188.36'
C3	239.06'	807.83'	S 53°58' E	238.19'
C4	370.21'	1318.41'	S 37°17' E	369.00'

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

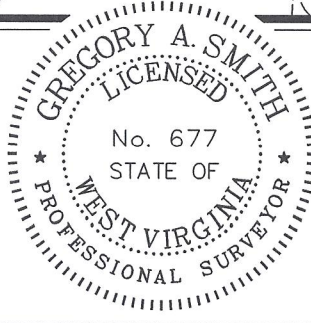
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NAD'83 UTM (M)	N. 4,408,195.8	E. 530,304.3

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 473,220.8	E. 1,652,781.5
NAD'83 GEO.	LAT-(N) 39.793811	LONG-(W) 80.623629
NAD'83 UTM (M)	N. 4,404,940.4	E. 532,223.4



(+) 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)	
LEASE # (SEE WW-6A1)	

SCALE 1" = 2000' FILE NO. 8939-P6HM AD.dwg
WILLETT S 6HM-REV2

DATE SEPTEMBER 8, 20 21
REVISED OCTOBER 13, 20 23

OPERATORS WELL NO. WILLETT S 6HM
API WELL NO. 47 - 051 - 02418
NO. STATE COUNTY PERMIT

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

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

COUNTY NAME
PERMIT

11/08/2024