

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

NOV 12 2024

WV Department of  
Environmental Protection

API 47 - 051 - 02283 County Marshall District Meade  
Quad Glen Easton 7.5' Pad Name KNOB CREEK Field/Pool Name N/A  
Farm name David Lee Franklin Well Number Knob Creek S-8HM (L018007)  
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 4,402,283.49 Easting 525,226.79  
Landing Point of Curve Northing 4,402,431.1 Easting 525,216.4  
Bottom Hole Northing 4,400,142.1 Easting 526,525.4

Elevation (ft) 737' 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 13.63 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, ferrocchrome lignosulfonate, calcium carbonate, fibrous cellulose

Date permit issued 12/03/2019 Date drilling commenced 08/06/2020 Date drilling ceased 11/01/2023  
Date completion activities began 05/04/2024 Date completion activities ceased 08/13/2024  
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 380' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 885' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 292', 374' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

APPROVED

Reviewed by:

*SL*  
02/07/2025  
STRADLER LOWE  
12/23/2024

WR-35  
Rev. 8/23/13

API 47-051 - 02283

Farm name David Lee Franklin

Well number Knob Creek S-8HM (L018007)

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"	505'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2299'	NEW	J-55 36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4", 8-1/2"	5-1/2"	15,390'	NEW	P-110 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 1136' 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	400	15.6	1.21	484	0	8+
Surface	CLASS A	704	15.6	1.18	831	0	8
Coal							
Intermediate 1	CLASS A	787	15.6	1.18	928	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2810	15.0	1.18	3316	1136'	8+
Tubing							

Drillers TD (ft) 15,406'      Loggers TD (ft) N/A  
 Deepest formation penetrated MARCELLUS      Plug back to (ft) N/A  
 Plug back procedure N/A

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Kick off depth (ft) 1300'

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 OTHER JOINT TO 50' \_\_\_\_\_

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





API 47- 051 - 02283 Farm name David Lee Franklin Well number Knob Creek S-8HM (L018007)

Drilling Contractor Falcon (Rig 24)  
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 # KNOB CREEK S-8HM (L018007) Final Formations API# 47-051-02283				
Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	292	292
Sewickley Coal	292	292	294	294
Sand/Shale	294	294	374	374
Pittsburgh Coal	374	374	380	380
Sand/Shale	380	380	1,509	1,509
Big Lime	1,509	1,509	1,711	1,710
Big Injun	1,711	1,710	1,740	1,739
Sand/Shale	1,740	1,739	2,095	2,093
Berea	2,095	2,093	2,357	2,354
Sand/Shale	2,357	2,354	2,359	2,356
Gordon	2,359	2,356	2,437	2,433
50F	2,437	2,433	2,508	2,504
Sand/Shale	2,508	2,504	3,008	3,002
Speechley	3,008	3,002	4,852	4,735
Alexander	4,852	4,735	5,302	5,142
Elks	5,302	5,142	6,217	5,996
Sonyea	6,217	5,996	6,330	6,074
Middlesex	6,330	6,074	6,364	6,094
Genesee	6,364	6,094	6,426	6,128
Geneseo	6,426	6,128	6,478	6,151
Tully	6,478	6,151	6,529	6,170
Hamilton	6,529	6,170	6,742	6,205
Marcellus	6,742	6,205	15,406	6,374

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**Knob Creek S Lease  
Well 8HM  
EQT Production Co.**

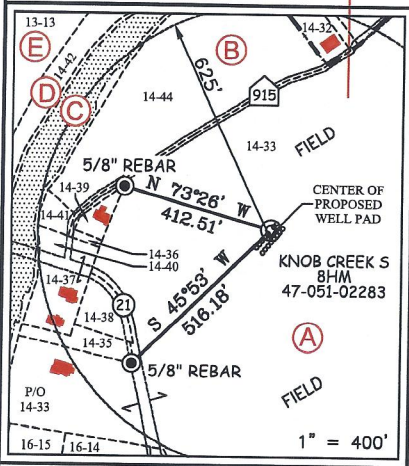
T.H. LATITUDE 39°47'30"  
B.H. LATITUDE 39°47'30"

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)			
NAD'83 S.P.C.(FT)	N. 464,885.90	E. 1,629,676.72	
NAD'83 GEO.	LAT-(N) 39.770108	LONG-(W) 80.705450	
NAD'83 UTM (M)	N. 4,402,283.49	E. 525,226.79	
LANDING POINT			
NAD'83 S.P.C.(FT)	N. 465,391.3	E. 1,629,638.6	
NAD'83 GEO.	LAT-(N) 39.771494	LONG-(W) 80.705610	
NAD'83 UTM (M)	N. 4,402,437.3	E. 525,212.6	
BOTTOM HOLE			
NAD'83 S.P.C.(FT)	N. 457,782.1	E. 1,633,814.3	
NAD'83 GEO.	LAT-(N) 39.750759	LONG-(W) 80.690397	
NAD'83 UTM (M)	N. 4,400,140.3	E. 526,523.5	

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

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-13-13.1	THOMAS JOHN FOX	0.837
9-14-28	CHARLES R. SCHELLHASE, ET UX	3.029
9-14-29	TINA MARIE STRICKLIN	0.269
9-14-29.1	TINA MARIE STRICKLIN	1.171
9-14-30	WILLIAM C. GROFT, ET UX	0.35
9-14-31	WILFORD F. NELSON, JR., ET UX	0.954
9-14-32	TH EXPLORATION LLC	0.583
9-14-32.1	TH EXPLORATION LLC	0.184
9-14-35	PAUL G. FOX	0.338
9-14-36	MARGARET FOX - LIFE	1600 SQ. FT.
9-14-37	MARGARET FOX - LIFE	LOT (ASSD)
9-14-38	MARGARET FOX - LIFE	0.631
9-14-39	MARGARET FOX - LIFE	8675 SQ. FT.
9-14-40	MARGARET FOX - LIFE	15,560 SQ. FT.
9-14-41	HARRY FOX, ET UX	9165 SQ. FT.
9-14-43	JAMES G. FOX	0.66
9-14-44.1	GEORGE R. TAYLOR, ET UX	4.423
9-14-51	GEORGE R. TAYLOR, ET UX	1.621
9-14-52	JAMES E. PEELMAN	0.439
9-14-53	JAMES E. PEELMAN	0.555
9-14-54	RICHARD L. HARVEY, ET UX	1.649
9-16-13.2	ELEANOR M. FOX EST.	1.570
9-16-13.4	JOHN FOX	0.533
9-16-14	LYNN CAMP METHODIST CHURCH	0.762
9-16-15.1	ERIC J. YOUNG	1.98
9-16-16	CLINTON B. WHITELATCH, SR., ET UX ESTS	1 AC. 5 6/10 PO.
9-16-17	ELEANOR M. FOX EST.	0.741
9-16-18.1	ROBIN D. & DAVID G. STEWART	3.333

**REFERENCES**



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634  
1412 Kanawha Boulevard, East | Charleston, WV 25310 | 304.346.3992  
254 East Berkeley Bypass | Beckley, WV 26801 | 804.255.5296  
slswv.com

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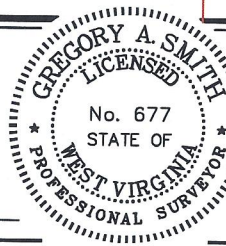
WV Department of  
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**NOTES ON SURVEY**

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS > 2500 SQ. FT. WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- SEE REFERENCES FOR DWELLINGS LOCATED WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.
- BASED ON WV DOT COUNTY ROUTE 74 IS A 40' STRIP OF LAND ACQUIRED IN NUMEROUS DEEDS.
- 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 JULY 27, 2018

REVISED \_\_\_\_\_  
OPERATORS WELL NO. KNOB CREEK S-8HM  
API WELL NO. 47 - 051 - 02283  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8789 Knob Creek S-8HM AD.dwg  
KNOB CREEK S-8HM-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 X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ IF "GAS" PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X

LOCATION: ELEVATION 737.50' WATERSHED FISH CREEK (HUC 10) DISTRICT MEADE COUNTY MARSHALL QUADRANGLE B.H. - WILEYVILLE 7.5' T.H. - GLEN EASTON 7.5'

SURFACE OWNER DAVID LEE FRANKLIN ACREAGE 65.824±  
ROYALTY OWNER DAVID LEE FRANKLIN, ET AL - SEE WW-6A1 ACREAGE 65.824±

PROPOSED WORK: LEASE NO. SEE WW-6A1  
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: 6,353' / TMD: 15,453'

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

**KNOB CREEK S LEASE  
WELL 8HM  
EQT PRODUCTION CO.**

T.H. LATITUDE 39°47'30"  
B.H. LATITUDE 39°47'30"

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

MAD 83 GRID NORTH

**AS DRILLED COORDINATES  
FOR WELL NO. 8HM**

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

NAD83 S.P.C.(FT) N. 464,885.90 E. 1,629,676.72  
NAD83 GEO. LAT-(N) 39.770108 LONG-(W) 80.705450  
NAD83 UTM (M) N. 4,402,283.49 E. 525,226.79

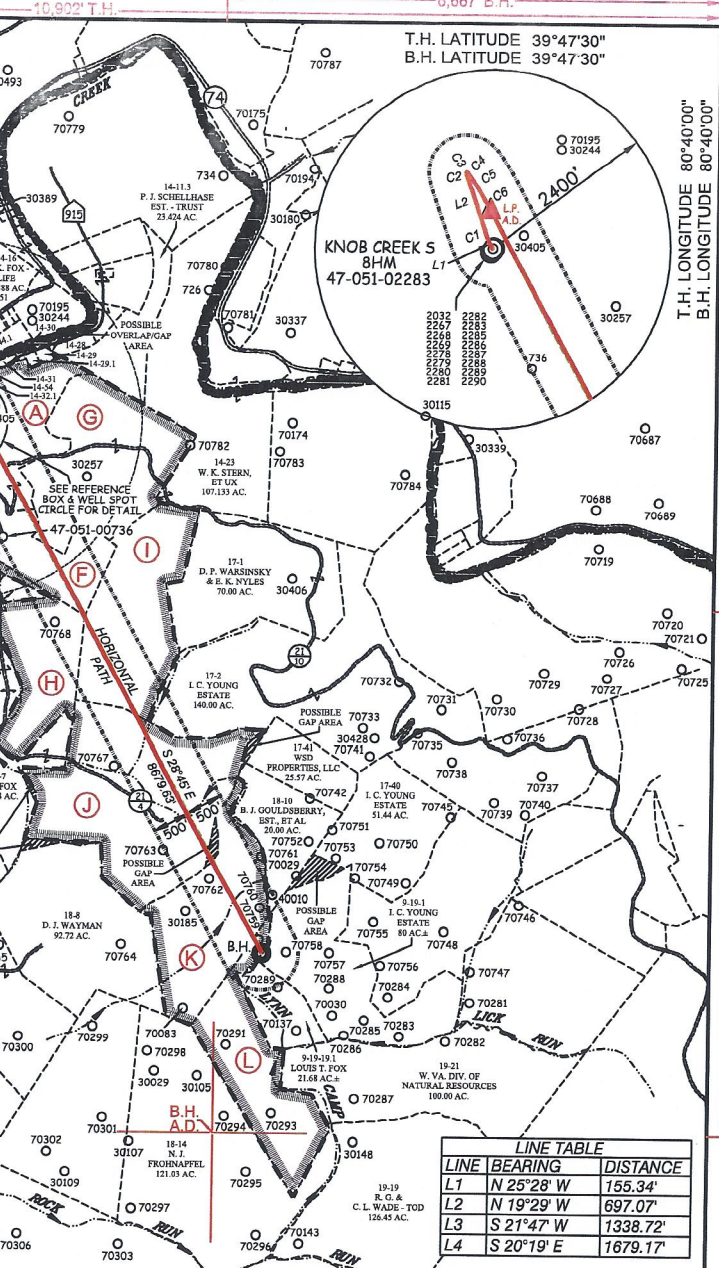
**LANDING POINT**

NAD83 S.P.C.(FT) N. 465,370.7 E. 1,629,650.6  
NAD83 GEO. LAT-(N) 39.771438 LONG-(W) 80.705567  
NAD83 UTM (M) N. 4,402,431.1 E. 525,216.4

**BOTTOM HOLE**

NAD83 S.P.C.(FT) N. 457,787.8 E. 1,633,820.7  
NAD83 GEO. LAT-(N) 39.750775 LONG-(W) 80.690374  
NAD83 UTM (M) N. 4,400,142.1 E. 525,525.4

TAG	SURFACE OWNER	PARCEL	ACRES
A	DAVID LEE FRANKLIN	9-14-33	65.824
B	DAVID LEE FRANKLIN	9-14-44	2.913
C	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
D	JOHN C. LAGOS, ET UX	9-14-42	1.87
E	MARGARET K. FOX (LIFE)	9-13-13	15.513
F	RONALD R. YOUNG, ET UX - LIFE	9-16-15	52.02
G	JOHN F. CUNNINGHAM, ET UX	9-14-22	75.22
H	ALICE FAYE WINLAND	9-16-18	48.667
I	ALICE FAYE WINLAND	9-16-19	75.00
J	ROBERT J. COMBS, ET AL	9-18-9	110.75
K	BETTY J. GOULDSBERRY EST., ET AL	9-18-11	60.00
L	LOUIS T. FOX	9-18-12	50.00



**LINE TABLE**

LINE	BEARING	DISTANCE
L1	N 25°28' W	155.34'
L2	N 19°29' W	697.07'
L3	S 21°47' W	1338.72'
L4	S 20°19' E	1679.17'

**CURVE TABLE**

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	188.07'	3714.66'	N 20°30' W	188.05'
C2	46.54'	166.28'	N 10°29' W	46.39'
C3	8.57'	4.42'	N 50°41' E	7.29'
C4	41.29'	126.81'	S 47°49' E	41.11'
C5	312.25'	2601.02'	S 32°56' E	312.07'
C6	263.09'	10593.76'	S 29°32' E	263.08'

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**SLS**  
FROM THE GROUND UP

12 Vanhook Drive | P.O. Box 150 | Glenview, WV 26031 | 304.462.5634  
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.545.3992  
254 East Beckley Bypass | Beckley, WV 26801 | 304.555.5296  
slsw.com

**LEGEND**

AS DRILLED (Red line)

PROPOSED (Green dashed line)

**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) (A)

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

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

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NAD83 UTM (M) N. 4,400,140.3 E. 526,525.5

SCALE 1" = 2000' FILE NO. 8789 Knob Creek S-8HM AD. STATE OF WEST VIRGINIA ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

DATE JULY 27, 20 18

REVISED 9-30-19, 8-28-20, 10-29-20, 1-25-21

OPERATORS WELL NO. KNOB CREEK S-8HM

API WELL NO. 47-051-02283

NO. STATE COUNTY PERMIT

WELL OPERATOR **EQT PRODUCTION COMPANY** DESIGNATED AGENT **JOSEPH C. MALLOW**

ADDRESS **400 WOODCLIFF DRIVE CANONSBURG, PA 15317** 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	05/04/2024	15298	15146	48	Marcellus
3	05/05/2024	15117	14966	48	Marcellus
4	05/05/2024	14937	14785	48	Marcellus
5	05/05/2024	14756	14604	48	Marcellus
6	05/07/2024	14575	14423	48	Marcellus
7	05/11/2024	14394	14243	48	Marcellus
8	05/11/2024	14214	14062	48	Marcellus
9	05/11/2024	14033	13881	48	Marcellus
10	05/12/2024	13852	13701	48	Marcellus
11	05/12/2024	13671	13520	48	Marcellus
12	05/12/2024	13491	13339	48	Marcellus
13	05/12/2024	13310	13158	48	Marcellus
14	05/13/2024	13129	12978	48	Marcellus
15	05/13/2024	12949	12797	48	Marcellus
16	05/13/2024	12768	12616	48	Marcellus
17	05/13/2024	12587	12436	48	Marcellus
18	05/15/2024	12406	12255	48	Marcellus
19	05/15/2024	12226	12074	48	Marcellus
20	05/15/2024	12045	11893	48	Marcellus
21	05/16/2024	11864	11713	48	Marcellus
22	05/16/2024	11684	11532	48	Marcellus
23	05/16/2024	11503	11351	48	Marcellus
24	05/16/2024	11322	11171	48	Marcellus
25	05/17/2024	11141	10990	48	Marcellus
26	05/17/2024	10961	10809	48	Marcellus
27	05/17/2024	10780	10628	48	Marcellus
28	05/18/2024	10599	10448	48	Marcellus
29	05/18/2024	10419	10267	48	Marcellus
30	05/18/2024	10238	10086	48	Marcellus
31	05/19/2024	10057	9905	48	Marcellus
32	05/19/2024	9876	9725	48	Marcellus
33	05/19/2024	9696	9544	48	Marcellus
34	05/20/2024	9515	9363	48	Marcellus
35	05/20/2024	9334	9183	48	Marcellus
36	05/20/2024	9153	9002	48	Marcellus
37	05/21/2024	8973	8821	48	Marcellus
38	05/22/2024	8792	8640	48	Marcellus
39	05/22/2024	8611	8460	48	Marcellus
40	05/22/2024	8431	8279	48	Marcellus
41	05/23/2024	8250	8098	48	Marcellus
42	05/23/2024	8069	7918	48	Marcellus

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43	05/23/2024	7888	7737	48	Marcellus
44	05/23/2024	6642	6558	32	Marcellus

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# Stimulation Data

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Environmental Protection

02/07/2025

Stage #	Stimulation Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	05/05/2024	32	8425	9263	3933	252798	10758.17	
2	05/05/2024	48	7880	7258	4874	452263	10848.81	
3	05/06/2024	100	8544	9267	4913	450204	9061.07	
4	05/06/2024	100	8460	9285	4764	450047	9140.14	
5	05/07/2024	99	8428	9268	5361	450225	9136.67	
6	05/11/2024	55	8701	8667	5420	419967	13357.57	
7	05/11/2024	82	8796	8565	4951	450987	9111.26	
8	05/11/2024	100	8005	8003	4855	449048	8997.98	
9	05/12/2024	99	8244	0	5191	450900	9020.50	
10	05/12/2024	100	7854	0	5013	450440	9025.86	
11	05/12/2024	100	7734	7873	4935	448020	9072.10	
12	05/13/2024	100	8078	0	5222	449940	9003.95	
13	05/13/2024	100	7805	0	5000	451360	9022.40	
14	05/13/2024	99	7769	0	4747	450740	9198.79	
15	05/13/2024	99	7635	8539	4998	451712	9047.74	
16	05/14/2024	100	7739	0	4999	449399	8959.95	
17	05/14/2024	79	8283	0	5050	377214	7675.33	
18	05/15/2024	100	7432	8654	4964	450005	8961.95	
19	05/15/2024	100	7601	7167	5016	449573	8965.05	
20	05/16/2024	100	7860	0	5252	450280	8953.62	
21	05/16/2024	100	7942	0	5150	450080	9414.86	
22	05/16/2024	100	7630	8788	5252	450100	8912.31	
23	05/17/2024	99	8096	0	5880	450400	8942.69	
24	05/17/2024	100	8090	0	5076	449830	9021.95	
25	05/17/2024	100	7548	8696	4980	450010	8936.62	
26	05/17/2024	101	7514	0	4977	450020	8915.86	
27	05/18/2024	100	7286	0	4998	450000	8961.17	
28	05/18/2024	100	7576	8890	4810	450097	8951.21	
29	05/18/2024	100	7332	8457	5219	450070	8894.90	
30	05/19/2024	99	7991	0	5900	450620	8321.33	
31	05/19/2024	100	7628	8575	5037	450320	8902.40	
32	05/19/2024	100	7185	7188	4820	450343	8927.45	
33	05/20/2024	93	8070	0	5600	429940	9380.36	
34	05/20/2024	98	7946	8916	4419	450669	8791.98	
35	05/20/2024	98	8048	9035	4674	450033	8972.17	
36	05/21/2024	100	7289	8331	4766	450040	8856.76	
37	05/21/2024	100	7265	6718	4915	455560	8877.26	
38	05/22/2024	100	7257	8961	4657	450173	8858.62	
39	05/22/2024	100	7312	8732	4644	451103	8809.67	
40	05/23/2024	100	7695	8618	4679	451880	8137.43	
41	05/23/2024	100	7171	8435	4969	453363	8901.17	

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42	05/23/2024	100	7255	8675	4661	450176	8831.14
43	05/23/2024	100	7109	8564	4632	450069	8767.67
44	05/24/2024	30	8216	9210	5827	21820	2393.29

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	05/04/2024
Job End Date:	05/24/2024
State:	West Virginia
County:	Marshall
API Number:	47-051-02283-00-00
Operator Name:	EQT Production
Well Name and Number:	Knob Creek S-8HM
Latitude:	39.77011
Longitude:	-80.705453
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6403
Total Base Water Volume (gal)*:	16547965.56
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	87.71871	None
Sand (Proppant)	EQT	Proppant					
			Silica Substrate	14808-60-7	100.00000	12.11473	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ALKANES, C12-26-BRANCHED AND LINEAR	90622-53-0	40.00000	0.01639	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ACRYLAMIDE-CHLORIDE SALT OF TRIMETHYLAMMONIO-ETHYL ACRYLATE COPOLYMER	69418-26-4	40.00000	0.01639	None
Clearal 268	ChemStream	Biocide					
			Water	7732-18-5	80.00000	0.00891	None

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StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Water	7732-18-5	15.00000	0.00231	None
HCR-7000 WL	Fluid USA, Inc.	Synthetic Acid					
			FLUID-Acid-00001	Proprietary	20.00000	0.00163	None
Clearal 268	ChemStream	Biocide					
			Glutaraldehyde	111-30-8	20.00000	0.00056	None
HCR-7000 WL	Fluid USA, Inc.	Synthetic Acid					
			FLUID-Amine-00001	Proprietary	10.00000	0.00041	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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10,902' T.H.

6,667' B.H.

**KNOB CREEK S LEASE  
WELL 8HM  
EQT PRODUCTION CO.**

T.H. LATITUDE 39°47'30"  
B.H. LATITUDE 39°47'30"

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)			
NAD'83 S.P.C.(FT)	N. 464,885.90	E. 1,629,676.72	
NAD'83 GEO.	LAT-(N) 39.770108	LONG-(W) 80.705450	
NAD'83 UTM (M)	N. 4,402,283.49	E. 525,226.79	
LANDING POINT			
NAD'83 S.P.C.(FT)	N. 465,391.3	E. 1,629,638.6	
NAD'83 GEO.	LAT-(N) 39.771494	LONG-(W) 80.705610	
NAD'83 UTM (M)	N. 4,402,437.3	E. 525,212.6	
BOTTOM HOLE			
NAD'83 S.P.C.(FT)	N. 457,782.1	E. 1,633,814.3	
NAD'83 GEO.	LAT-(N) 39.750759	LONG-(W) 80.690397	
NAD'83 UTM (M)	N. 4,400,140.3	E. 526,523.5	

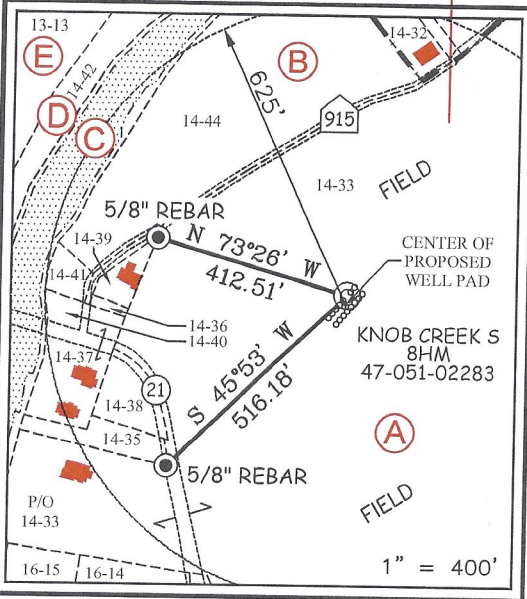
T.H. LONGITUDE 80°40'00"  
B.H. LONGITUDE 80°40'00"

7,863' T.H.

14,895' B.H.

**REFERENCES**

T.H.  
A.D.



MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-13-13.1	THOMAS JOHN FOX	0.827
9-14-28	CHARLES R. SCHELLHASE, ET UX	3.029
9-14-29	TINA MARIE STRICKLIN	0.209
9-14-29.1	TINA MARIE STRICKLIN	1.171
9-14-30	WILLIAM C. GROFT, ET UX	0.35
9-14-31	WILFORD E. NELSON, JR., ET UX	0.954
9-14-32	THI EXPLORATION LLC	0.583
9-14-32.1	THI EXPLORATION LLC	0.184
9-14-35	PAUL G. FOX	0.338
9-14-36	MARGARET FOX - LIFE	1600 SQ. FT.
9-14-37	MARGARET FOX - LIFE	1.0T (ASSD)
9-14-38	MARGARET FOX - LIFE	0.631
9-14-39	MARGARET FOX - LIFE	8675 SQ. FT.
9-14-40	MARGARET FOX - LIFE	19,560 SQ. FT.
9-14-41	HARRY FOX, ET UX	9165 SQ. FT.
9-14-43	JAMES G. FOX	0.66
9-14-44.1	GEORGE R. TAYLOR, ET UX	4.423
9-14-51	GEORGE R. TAYLOR, ET UX	1.621
9-14-52	JAMES E. PEELMAN	0.439
9-14-53	JAMES E. PEELMAN	0.555
9-14-54	RICHARD L. HARVETH	1.649
9-16-13.2	ELEANOR M. FOX EST.	1.570
9-16-13.4	JOHN FOX	0.533
9-16-14	LYNN CAMP METHODIST CHURCH	1.98
9-16-15.1	ERIC J. YOUNG	0.762
9-16-16	CLINTON B. WHITELATCH, SR., ET UX ESTS	1 AC. 5 6/10 PO.
9-16-17	ELEANOR M. FOX EST.	0.741
9-16-18.1	ROBIN D. & DAVID G. STEWART	3.333

**NOTES ON SURVEY**

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS > 2500 SQ. FT. WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- SEE REFERENCES FOR DWELLINGS LOCATED WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.
- BASED ON WV DOT COUNTY ROUTE 74 IS A 40' STRIP OF LAND ACQUIRED IN NUMEROUS DEEDS. PLAT UPDATED TO SHOW AS-DRILLED PATH. AS-DRILLED DATA PROVIDED BY EQT PRODUCTION CO.

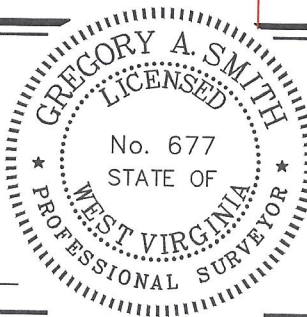
B.H.  
A.D.



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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 JULY 27, 20 18

REVISED \_\_\_\_\_  
OPERATORS WELL NO. KNOB CREEK S-8HM  
API WELL NO. 47 - 051 - 02283  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8789 Knob Creek S-8HM AD.dwg  
KNOB CREEK S-8HM-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 737.50' WATERSHED FISH CREEK (HUC 10)  
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE B.H. - WILEYVILLE 7.5'  
T.H. - GLEN EASTON 7.5'

SURFACE OWNER DAVID LEE FRANKLIN ACREAGE 65.824±  
ROYALTY OWNER DAVID LEE FRANKLIN, ET AL - SEE WW-6A1 ACREAGE 65.824±

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: 6,353' / TMD: 15,453'

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

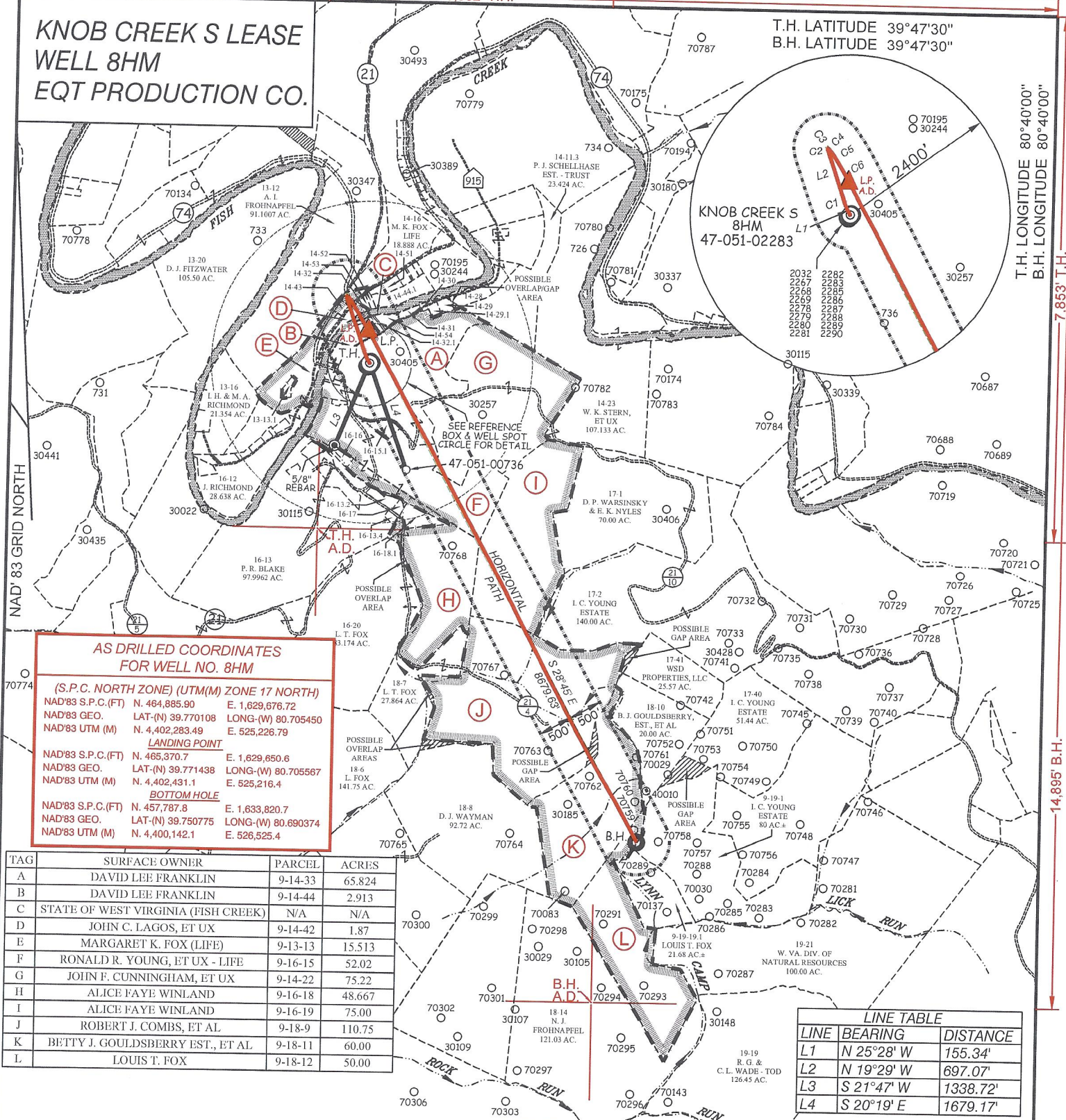
10,902' T.H.

6,667' B.H.

**KNOB CREEK S LEASE  
WELL 8HM  
EQT PRODUCTION CO.**

T.H. LATITUDE 39°47'30"  
B.H. LATITUDE 39°47'30"

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



**AS DRILLED COORDINATES  
FOR WELL NO. 8HM**

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)			
NAD'83 S.P.C.(FT)	N. 464,885.90	E. 1,629,676.72	
NAD'83 GEO.	LAT-(N) 39.770108	LONG-(W) 80.705450	
NAD'83 UTM (M)	N. 4,402,283.49	E. 525,226.79	
LANDING POINT			
NAD'83 S.P.C.(FT)	N. 465,370.7	E. 1,629,650.6	
NAD'83 GEO.	LAT-(N) 39.771438	LONG-(W) 80.705567	
NAD'83 UTM (M)	N. 4,402,431.1	E. 525,216.4	
BOTTOM HOLE			
NAD'83 S.P.C.(FT)	N. 457,787.8	E. 1,633,820.7	
NAD'83 GEO.	LAT-(N) 39.750775	LONG-(W) 80.690374	
NAD'83 UTM (M)	N. 4,400,142.1	E. 526,525.4	

TAG	SURFACE OWNER	PARCEL	ACRES
A	DAVID LEE FRANKLIN	9-14-33	65.824
B	DAVID LEE FRANKLIN	9-14-44	2.913
C	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
D	JOHN C. LAGOS, ET UX	9-14-42	1.87
E	MARGARET K. FOX (LIFE)	9-13-13	15.513
F	RONALD R. YOUNG, ET UX - LIFE	9-16-15	52.02
G	JOHN F. CUNNINGHAM, ET UX	9-14-22	75.22
H	ALICE FAYE WINLAND	9-16-18	48.667
I	ALICE FAYE WINLAND	9-16-19	75.00
J	ROBERT J. COMBS, ET AL	9-18-9	110.75
K	BETTY J. GOULDSBERRY EST., ET AL	9-18-11	60.00
L	LOUIS T. FOX	9-18-12	50.00

LINE	BEARING	DISTANCE
L1	N 25°28' W	155.34'
L2	N 19°29' W	697.07'
L3	S 21°47' W	1338.72'
L4	S 20°19' E	1679.17'

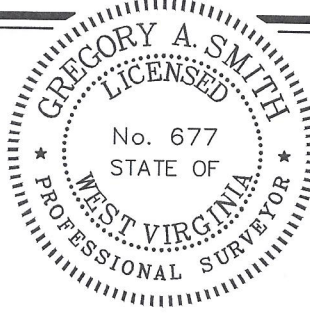
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	188.07'	3714.66'	N 20°30' W	188.05'
C2	46.54'	166.28'	N 10°29' W	46.39'
C3	8.57'	4.42'	N 50°41' E	7.29'
C4	41.29'	126.81'	S 47°49' E	41.11'
C5	312.25'	2601.02'	S 32°56' E	312.07'
C6	263.09'	10593.76'	S 29°32' E	263.08'



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254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
slsww.com

**LEGEND**

- AS DRILLED —
- PROPOSED - - -



(+) 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. 8789 Knob Creek S-8HM AD.dwg  
KNOB CREEK S-8HM-REV5  
DATE JULY 27, 2018  
REVISED 9-30-19, 8-28-20, 10-29-20, 1-25-21  
OPERATORS WELL NO. KNOB CREEK S-8HM  
API WELL 47-051-02283  
NO. STATE COUNTY PERMIT

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

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

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

COUNTY NAME  
PERMIT

02/07/2025