

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 - 02285 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-9HM (L018006)
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 4,402,286.35 Easting 525,229.07
Landing Point of Curve Northing 4,402,573.5 Easting 525,363.5
Bottom Hole Northing 4,399,814.9 Easting 526,971.8

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 13.7 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 12/03/2019 Date drilling commenced 07/26/2020 Date drilling ceased 10/26/2023
Date completion activities began 06/04/2024 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

Reviewed by:

SC
02/07/2025
STRADER
12/23/2024

WR-35
Rev. 8/23/13

API 47-051 - 02285 Farm name David Lee Franklin Well number Knob Creek S-9HM (L018006)

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"	489'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2296'	NEW	J-55 36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4", 8-1/2"	5-1/2"	17,402'	NEW	P-110 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 896' 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	704	15.6	1.18	831	0	8
Coal							
Intermediate 1	CLASS A	790	15.6	1.18	932	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3219	15.0	1.18	3798	896'	8+
Tubing							

Drillers TD (ft) 17,424' 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) 1494'

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 49' _____

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

WR-35
Rev. 8/23/13

API 47- 051 - 02285 Farm name David Lee Franklin Well number Knob Creek S-9HM (L018006)

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-9HM (L018006) Final Formations API# 47-051-02285

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	1,711
Big Injun	1,711	1,711	1,740	1,740
Sand/Shale	1,740	1,740	2,095	2,093
Berea	2,095	2,093	2,357	2,355
Sand/Shale	2,357	2,355	2,359	2,357
Gordon	2,359	2,357	2,437	2,434
50F	2,437	2,434	2,508	2,505
Sand/Shale	2,508	2,505	3,008	3,003
Speechley	3,008	3,003	4,852	4,680
Alexander	4,852	4,680	5,302	5,036
Elks	5,302	5,036	6,217	5,841
Sonyea	6,217	5,841	6,330	5,935
Middlesex	6,330	5,935	6,364	5,961
Genesee	6,364	5,961	6,426	6,006
Geneseo	6,426	6,006	6,478	6,041
Tully	6,478	6,041	6,529	6,072
Hamilton	6,529	6,072	6,742	6,169
Marcellus	6,742	6,169	17,424	6,422

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**KNOB CREEK S LEASE
WELL 9HM
EQT PRODUCTION CO.**

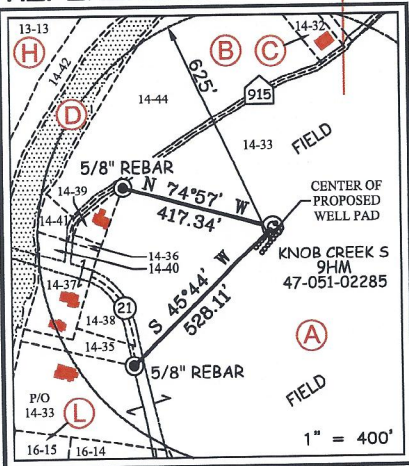
T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°45'00"

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)			
NAD'83 S.P.C. (FT)	N. 464,895.15	E. 1,629,684.36	
NAD'83 GEO.	LAT. (N) 39.770134	LONG. (W) 80.705424	
NAD'83 UTM (M)	N. 4,402,286.35	E. 525,229.07	
LANDING POINT			
NAD'83 S.P.C. (FT)	N. 465,826.2	E. 1,630,144.3	
NAD'83 GEO.	LAT. (N) 39.772707	LONG. (W) 80.703832	
NAD'83 UTM (M)	N. 4,402,572.3	E. 525,364.4	
BOTTOM HOLE			
NAD'83 S.P.C. (FT)	N. 456,693.3	E. 1,635,275.2	
NAD'83 GEO.	LAT. (N) 39.747823	LONG. (W) 80.685150	
NAD'83 UTM (M)	N. 4,399,816.1	E. 526,974.1	

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°40'00"
797' B.H.
7,843' T.H.

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-13-13	THOMAS JOHN FOX	0.827
9-13-14	MARGARET K. FOX - LIFE	3.00
9-14-28	CHARLES R. SCHELLHASE, ET UX	3.029
9-14-29	ANDREW FASOULETOS, ET UX	0.209
9-14-29.1	ANDREW FASOULETOS, ET UX	1.171
9-14-30	WILLIAM C. GROFF, ET UX	0.35
9-14-32.1	TWILA C. COFFIELD	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	19,560 SQ. FT.
9-14-41	MARGARET FOX - LIFE	9163 SQ. FT.
9-14-42	JOHN C. LAGOS, ET UX	1.87
9-14-43	JAMES G. FOX	0.66
9-14-45	GEORGE R. TAYLOR, ET UX	4.423
9-14-46.1	MARTHA JANE FAZZARO	1.512
9-14-47	MICHAEL L. & CHERYL J. ACREE	0.355
9-14-48	MICHAEL L. & CHERYL J. ACREE	0.473
9-14-49	MICHAEL L. & CHERYL J. ACREE	0.118
9-14-50	RONALD MARSH	0.707
9-14-50	JAMES E. PEELMAN	0.555
9-14-53	RICHARD L. HARVETH, ET UX	1.649
9-16-13.2	ELEANOR M. FOX EST.	1.570
9-16-13.4	JOHN FOX	0.333
9-16-14	ERIC J. YOUNG	0.762
9-16-14	LYNN CAMP METHODIST CHURCH	1.98
9-16-15.1	CLINTON B. WHITEATCH, SR., ET UX ESTS	1 AC. 5 6/10 PD.
9-16-16	ELEANOR M. FOX EST.	0.741
9-16-17	ROBIN D. & DAVID G. STEWART	3.333

REFERENCES



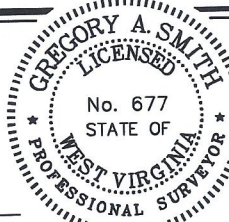
12 Vashon Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5634
1472 Kanawha Boulevard, East | Charleston, WV 25301 | 304.348.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.9296
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NOTES ON SURVEY

- 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. Gregory A. Smith
677

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE JULY 27, 20 18
REVISED NOVEMBER 6, 2023
OPERATORS WELL NO. KNOB CREEK S-9HM
API WELL NO. 47 - 051 - 02285
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8789P9HM9 Asdrilled.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 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±
LEASE NO. SEE WW-6A1

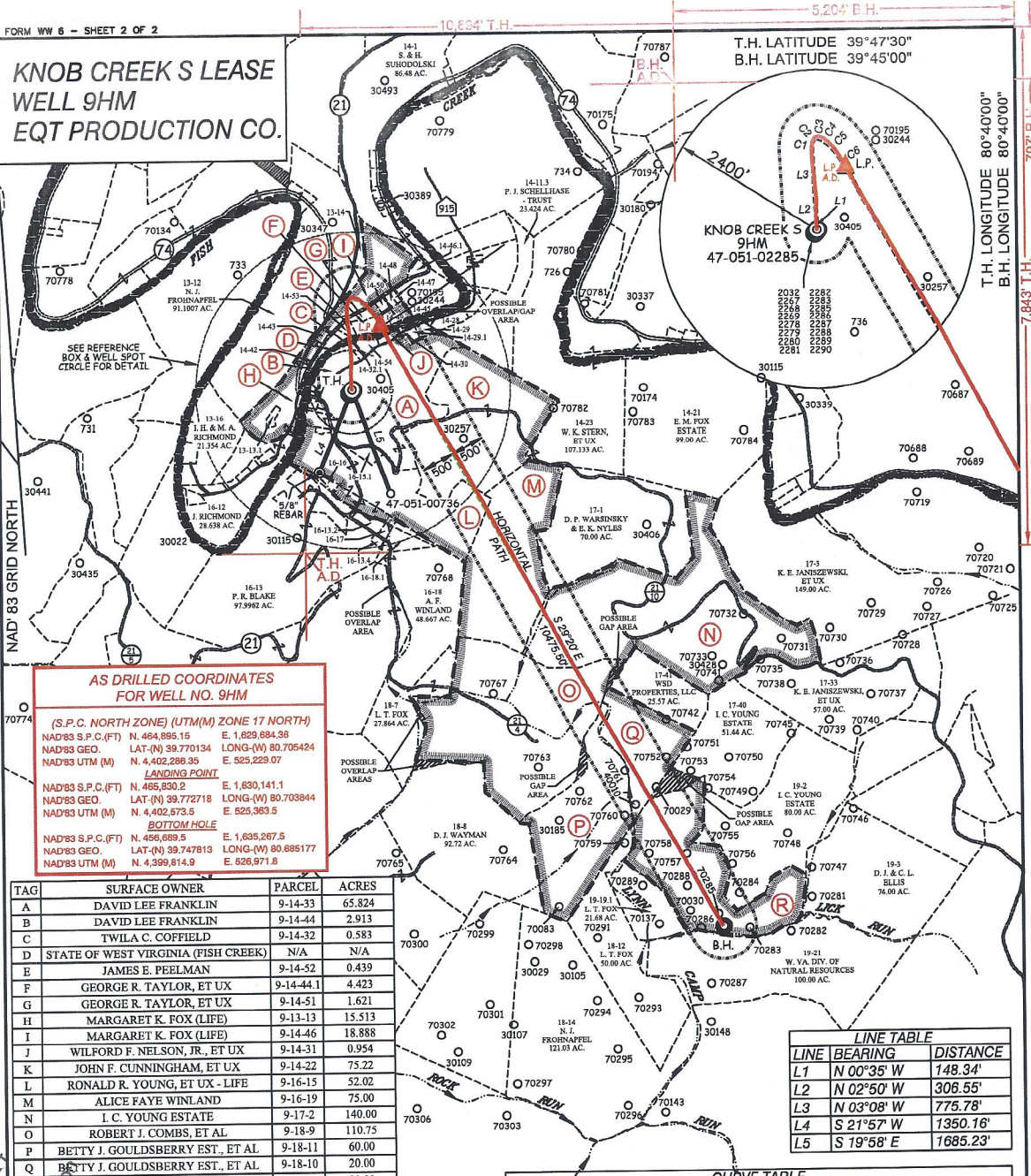
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
ESTIMATED DEPTH TVD: 6,360' / TMD: 17,418'

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 9HM
EQT Production Co.



AS DRILLED COORDINATES FOR WELL NO. 9HM

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

NAD'83 S.P.C.(FT) N. 464,895.15 E. 1,629,684.36
 NAD'83 GEO. LAT.(-N) 39.770134 LONG.(-W) 80.705424
 NAD'83 UTM (M) N. 4,402,286.35 E. 525,229.07

LANDING POINT

NAD'83 S.P.C.(FT) N. 485,830.2 E. 1,630,141.1
 NAD'83 GEO. LAT.(-N) 39.772718 LONG.(-W) 80.703844
 NAD'83 UTM (M) N. 4,402,572.3 E. 525,363.5

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 456,689.5 E. 1,635,267.5
 NAD'83 GEO. LAT.(-N) 39.747813 LONG.(-W) 80.685177
 NAD'83 UTM (M) N. 4,399,814.9 E. 526,971.8

TAG	SURFACE OWNER	PARCEL	ACRES
A	DAVID LEE FRANKLIN	9-14-33	65.824
B	DAVID LEE FRANKLIN	9-14-44	2.913
C	TWILA C. COFFIELD	9-14-32	0.583
D	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
E	JAMES E. PEELMAN	9-14-52	0.439
F	GEORGE R. TAYLOR, ET UX	9-14-44.1	4.423
G	GEORGE R. TAYLOR, ET UX	9-14-51	1.621
H	MARGARET K. FOX (LIFE)	9-13-13	15.513
I	MARGARET K. FOX (LIFE)	9-14-46	18.888
J	WILFORD F. NELSON, JR., ET UX	9-14-31	0.954
K	JOHN F. CUNNINGHAM, ET UX	9-14-22	75.22
L	RONALD R. YOUNG, ET UX - LIFE	9-16-15	52.02
M	ALICE FAYE WINLAND	9-16-19	75.00
N	I. C. YOUNG ESTATE	9-17-2	140.00
O	ROBERT J. COMBS, ET AL	9-18-9	110.75
P	BETTY J. GOULDSBERRY EST., ET AL	9-18-11	60.00
Q	BETTY J. GOULDSBERRY EST., ET AL	9-18-10	20.00
R	I. C. YOUNG ESTATE	9-19-1	80.00

LINE TABLE

LINE	BEARING	DISTANCE
L1	N 00°35' W	148.34'
L2	N 02°50' W	306.55'
L3	N 03°08' W	775.78'
L4	S 21°57' W	1350.16'
L5	S 19°58' E	1685.23'

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	88.49'	243.38'	N 05°28' E	88.00'
C2	78.72'	74.86'	N 44°34' E	75.15'
C3	52.65'	118.14'	S 85°30' E	52.22'
C4	100.98'	329.77'	S 61°46' E	100.59'
C5	222.62'	918.31'	S 45°55' E	222.08'
C6	281.74'	1618.82'	S 34°04' E	281.38'

SLS
 FROM THE GROUND UP

12 Vestors Drive | P.O. Box 160 | Glenville, WV 26031 | 304-462-5624
 1432 Kanawha Boulevard, Bldg | Charleston, WV 25301 | 304-246-3952
 254 East Beckley Bypass | Beckley, WV 26001 | 304-255-3396

sls.com

LEGEND

AS DRILLED ———

PROPOSED - - - - -

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*

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

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SCALE 1" = 2000' FILE NO. 8789P9HM9 Asdrilled.dwg

DATE JULY 27, 2018

REVISED NOVEMBER 6, 2023

OPERATORS WELL NO. Knob Creek S-9HM

API WELL 47-051-02285

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) ———

EQT PRODUCTION COMPANY DESIGNATED AGENT JOSEPH C. MALLOW

400 WOODCLIFF DRIVE ADDRESS 427 MIDSTATE DRIVE

CANONSBURG, PA 15317 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	06/04/2024	17302	17152	48	Marcellus
3	06/04/2024	17123	16973	48	Marcellus
4	06/05/2024	16945	16795	48	Marcellus
5	06/05/2024	16766	16616	48	Marcellus
6	06/06/2024	16587	16437	48	Marcellus
7	06/07/2024	16408	16258	48	Marcellus
8	06/13/2024	16229	16079	48	Marcellus
9	06/14/2024	16051	15901	48	Marcellus
10	06/15/2024	15872	15722	48	Marcellus
11	06/16/2024	15693	15543	48	Marcellus
12	06/16/2024	15514	15364	48	Marcellus
13	06/16/2024	15335	15185	48	Marcellus
14	06/16/2024	15157	15007	48	Marcellus
15	06/17/2024	14978	14828	48	Marcellus
16	06/18/2024	14799	14649	48	Marcellus
17	06/18/2024	14620	14470	48	Marcellus
18	06/18/2024	14441	14291	48	Marcellus
19	06/19/2024	14263	14113	48	Marcellus
20	06/19/2024	14084	13934	48	Marcellus
21	06/19/2024	13905	13755	48	Marcellus
22	06/19/2024	13726	13576	48	Marcellus
23	06/20/2024	13547	13397	48	Marcellus
24	06/20/2024	13369	13219	48	Marcellus
25	06/20/2024	13190	13040	48	Marcellus
26	06/21/2024	13011	12861	48	Marcellus
27	06/21/2024	12832	12682	48	Marcellus
28	06/21/2024	12653	12503	48	Marcellus
29	06/21/2024	12475	12325	48	Marcellus
30	06/22/2024	12296	12146	48	Marcellus
31	06/22/2024	12117	11967	48	Marcellus
32	06/23/2024	11938	11788	48	Marcellus
33	06/23/2024	11759	11609	48	Marcellus
34	06/23/2024	11581	11431	48	Marcellus
35	06/23/2024	11402	11252	48	Marcellus
36	06/24/2024	11223	11073	48	Marcellus
37	06/24/2024	11044	10894	48	Marcellus
38	06/25/2024	10865	10715	48	Marcellus
39	06/25/2024	10687	10537	48	Marcellus
40	06/25/2024	10508	10358	48	Marcellus
41	06/26/2024	10329	10179	48	Marcellus
42	06/26/2024	10150	10000	48	Marcellus

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43	06/26/2024	9971	9821	48	Marcellus
44	06/26/2024	9793	9643	48	Marcellus
45	06/27/2024	9614	9464	48	Marcellus
46	06/27/2024	9435	9285	48	Marcellus
47	06/27/2024	9256	9106	48	Marcellus
48	06/28/2024	9077	8927	48	Marcellus
49	06/28/2024	8899	8749	48	Marcellus
50	06/28/2024	8720	8570	48	Marcellus
51	06/28/2024	8541	8391	48	Marcellus
52	06/29/2024	8362	8212	48	Marcellus
53	06/29/2024	8183	8033	48	Marcellus
54	06/29/2024	8005	7855	48	Marcellus
55	06/30/2024	7826	7676	48	Marcellus
56	06/30/2024	7647	7497	48	Marcellus
57	06/30/2024	7468	7318	48	Marcellus
58	07/02/2024	7289	7139	48	Marcellus
59	07/02/2024	7111	6990	40	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	06/04/2024	82	8368	8284	4397	250700	6954.64	
2	06/04/2024	88	8794	0	4952	450120	9139.24	
3	06/05/2024	84	8949	0	5011	450060	9216.98	
4	06/06/2024	99	8530	0	5257	450060	9111.10	
5	06/06/2024	100	8338	0	5117	450080	9032.64	
6	06/07/2024	98	8598	0	5691	450220	9057.83	
7	06/14/2024	91	8889	8762	5045	450711	9024.74	
8	06/14/2024	97	8724	8641	5041	449923	9010.62	
9	06/16/2024	86	8413	9071	5290	471199	10900.17	
10	06/16/2024	95	8808	8862	5043	450126	8906.05	
11	06/16/2024	98	8374	7847	5185	449527	9001.69	
12	06/16/2024	99	8391	7832	5334	448500	8929.26	
13	06/17/2024	100	8421	8263	5334	450181	9062.69	
14	06/17/2024	95	8642	8911	5309	445317	8900.05	
15	06/18/2024	79	8149	8938	5218	448312	10848.12	
16	06/18/2024	100	8019	7972	5157	450280	8966.29	
17	06/19/2024	100	8500	0	5355	450240	8900.26	
18	06/19/2024	100	8277	0	5537	451320	8965.14	
19	06/19/2024	99	7699	7589	5071	448240	8926.62	
20	06/19/2024	100	7938	8652	5093	450500	8917.31	
21	06/19/2024	100	8040	0	5141	451750	8920.57	
22	06/20/2024	100	8030	0	5178	450100	8930.00	
23	06/20/2024	100	7855	8690	5042	452840	8895.00	
24	06/21/2024	28	8571	8801	5075	448580	10395.71	
25	06/21/2024	100	8159	0	5279	450260	8918.57	
26	06/21/2024	100	7533	8466	5172	451080	8905.12	
27	06/21/2024	100	8133	0	5491	448700	8947.17	
28	06/22/2024	100	8032	0	5573	450960	8883.76	
29	06/22/2024	100	8073	8914	5414	449980	8875.50	
30	06/22/2024	100	8183	9045	5218	450000	8846.10	
31	06/23/2024	74	8754	0	5000	450140	8947.98	
32	06/23/2024	100	8001	8815	5286	452320	8792.07	
33	06/23/2024	100	8154	8571	5170	451080	8839.24	
34	06/24/2024	100	7673	0	5271	450220	8804.19	
35	06/24/2024	100	7725	0	5294	450180	8837.45	
36	06/24/2024	61	8036	8826	5652	405090	7877.07	
37	06/25/2024	98	8076	0	5104	450120	8506.74	
38	06/25/2024	65	8767	9410	4292	450144	9707.60	
39	06/25/2024	99	8144	8346	4836	452080	8802.31	
40	06/26/2024	62	8581	0	4142	450542	9443.00	
41	06/26/2024	100	7921	9077	4938	450081	8837.88	

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42	06/26/2024	100	7891	8679	5073	450360	8822.29
43	06/27/2024	85	8424	0	5136	450180	8800.10
44	06/27/2024	98	8114	9005	5107	449874	8803.24
45	06/27/2024	100	7679	9021	5092	450020	8763.19
46	06/27/2024	100	7323	8698	5140	450183	8834.17
47	06/28/2024	100	7732	0	5170	452000	8780.86
48	06/28/2024	100	7676	8936	5292	450389	8714.19
49	06/28/2024	100	7162	8382	5205	450240	8828.43
50	06/29/2024	100	7436	0	5249	446000	8765.19
51	06/29/2024	100	7297	8503	5250	450899	8829.86
52	06/29/2024	100	7262	8656	5186	451124	8736.07
53	06/29/2024	100	7021	0	5120	448494	8671.38
54	06/30/2024	100	7475	0	4567	448000	8691.86
55	06/30/2024	100	6805	8548	4916	450618	8698.50
56	06/30/2024	100	7197	8851	5092	448000	8738.74
57	07/02/2024	100	6881	0	4913	456700	8644.10
58	07/02/2024	100	6692	7699	4900	457140	8526.24
59	07/02/2024	99	7471	8705	4466	376320	7461.43

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	06/04/2024
Job End Date:	07/02/2024
State:	West Virginia
County:	Marshall
API Number:	47-051-02285-00-00
Operator Name:	EQT Production
Well Name and Number:	Knob Creek S-9HM
Latitude:	39.770136
Longitude:	-80.705426
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6450
Total Base Water Volume (gal)*:	22083361.02
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	87.35774	None
Sand (Proppant)	EQT	Proppant	Silica Substrate	14808-60-7	100.00000	12.45213	None
StimSTREAM FR 9800	ChemStream	Friction Reducer	ACRYLAMIDE-CHLORIDE SALT OF TRIMETHYLAMMONIO-ETHYL ACRYLATE COPOLYMER	69418-26-4	40.00000	0.01913	None
StimSTREAM FR 9800	ChemStream	Friction Reducer	ALKANES, C12-26-BRANCHED AND LINEAR	90622-53-0	40.00000	0.01913	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	0.00269	None	
HCR-7000 WL	Fluid USA, Inc.	Synthetic Acid						
			FLUID-Acid-00001	Proprietary	20.00000	0.00190	None	
Clearal 268	ChemStream	Biocide						
			Glutaraldehyde	111-30-8	20.00000	0.00055	None	
HCR-7000 WL	Fluid USA, Inc.	Synthetic Acid						
			FLUID-Amine-00001	Proprietary	10.00000	0.00048	None	
StimSTREAM FR 9800	ChemStream	Friction Reducer						
			ETHOXYLATED ALCOHOLS (C12-16)	68551-12-2	5.00000	0.00030	None	
StimSTREAM SC-398	ChemStream	Scale Inhibitor						
			AA/ATBS Co-polymer	9003-05-8	5.00000	0.00002	None	
Clearal 268	ChemStream	Biocide						
			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

**KNOB CREEK S LEASE
WELL 9HM
EQT PRODUCTION CO.**

10,894' T.H.

5,204' B.H.

T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°45'00"

B.H.
A.D.

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

NAD'83 S.P.C. (FT)	N. 464,895.15	E. 1,629,684.36
NAD'83 GEO.	LAT-(N) 39.770134	LONG-(W) 80.705424
NAD'83 UTM (M)	N. 4,402,286.35	E. 525,229.07

LANDING POINT

NAD'83 S.P.C. (FT)	N. 465,826.2	E. 1,630,144.3
NAD'83 GEO.	LAT-(N) 39.772707	LONG-(W) 80.703832
NAD'83 UTM (M)	N. 4,402,572.3	E. 525,364.4

BOTTOM HOLE

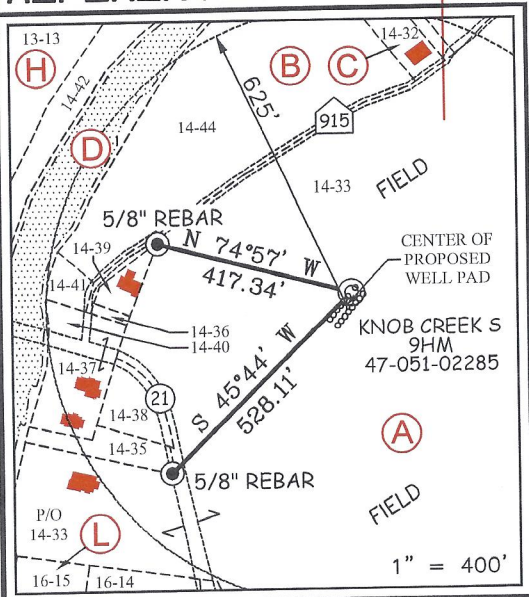
NAD'83 S.P.C. (FT)	N. 456,693.3	E. 1,635,275.2
NAD'83 GEO.	LAT-(N) 39.747823	LONG-(W) 80.685150
NAD'83 UTM (M)	N. 4,399,816.1	E. 526,974.1

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

797' B.H.
7,843' T.H.

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-13-13.1	THOMAS JOHN FOX	0.827
9-13-14	MARGARET K. FOX - LIFE	3.00
9-14-28	CHARLES R. SCHELLHASE, ET UX	3.029
9-14-29	ANDREW FASOULETOS, ET UX	0.209
9-14-29.1	ANDREW FASOULETOS, ET UX	1.171
9-14-30	WILLIAM C. GROFT, ET UX	0.35
9-14-32.1	TWILA C. COFFIELD	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	19,560 SQ. FT.
9-14-41	MARGARET FOX - LIFE	9165 SQ. FT.
9-14-42	JOHN C. LAGOS, ET UX	1.87
9-14-43	JAMES G. FOX	0.66
9-14-45	GEORGE R. TAYLOR, ET UX	4.423
9-14-46.1	MARTHA JANE FAZZARO	1.512
9-14-47	MICHAEL L. & CHERYL J. ACRBE	0.355
9-14-48	MICHAEL L. & CHERYL J. ACRBE	0.473
9-14-49	MICHAEL L. & CHERYL J. ACRBE	0.118
9-14-50	RONALD MARSH	0.707
9-14-53	JAMES E. PHELMAN	0.555
9-14-54	RICHARD L. HARVETH, 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



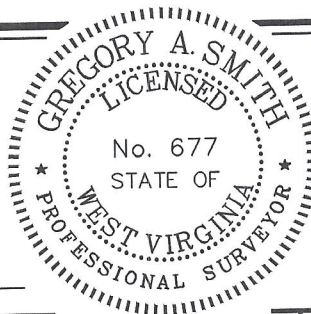
12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slsvv.com

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, 20 18
REVISED NOVEMBER 6, 2023
OPERATORS WELL NO. KNOB CREEK S-9HM
API WELL NO. 47 - 051 - 02285
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8789P9HM9 Asdrilled.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 INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

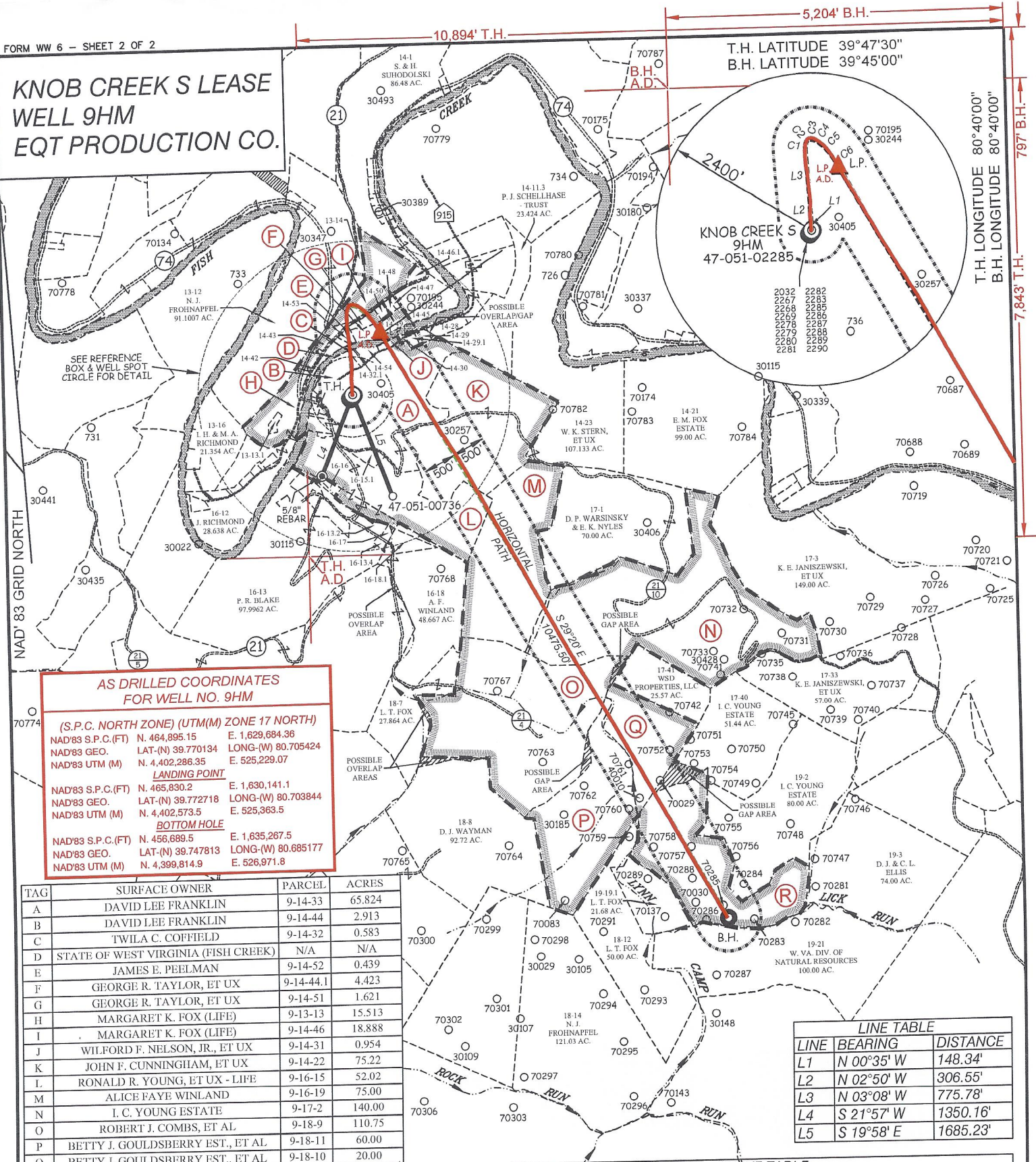
LOCATION: ELEVATION 737.50' WATERSHED FISH CREEK (HUC 10)
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE T.H. - GLEN EASTON 7.5'
SURFACE OWNER DAVID LEE FRANKLIN ACREAGE 65.824±
ROYALTY OWNER DAVID LEE FRANKLIN, ET AL - SEE WW-6A1 ACREAGE 65.824±
PROPOSED WORK: LEASE NO. SEE WW-6A1

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: 6,360' / TMD: 17,418'

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

Knob Creek S Lease Well 9HM EQT Production Co.



T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°45'00"

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

AS DRILLED COORDINATES FOR WELL NO. 9HM

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

NAD'83 S.P.C.(FT)	N. 464,895.15	E. 1,629,684.36
NAD'83 GEO.	LAT-(N) 39.770134	LONG-(W) 80.705424
NAD'83 UTM (M)	N. 4,402,286.35	E. 525,229.07

LANDING POINT

NAD'83 S.P.C.(FT)	N. 465,830.2	E. 1,630,141.1
NAD'83 GEO.	LAT-(N) 39.772718	LONG-(W) 80.703844
NAD'83 UTM (M)	N. 4,402,573.5	E. 525,363.5

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 456,689.5	E. 1,635,267.5
NAD'83 GEO.	LAT-(N) 39.747813	LONG-(W) 80.685177
NAD'83 UTM (M)	N. 4,399,814.9	E. 526,971.8

TAG	SURFACE OWNER	PARCEL	ACRES
A	DAVID LEE FRANKLIN	9-14-33	65.824
B	DAVID LEE FRANKLIN	9-14-44	2.913
C	TWILA C. COFFIELD	9-14-32	0.583
D	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
E	JAMES E. PEELMAN	9-14-52	0.439
F	GEORGE R. TAYLOR, ET UX	9-14-44.1	4.423
G	GEORGE R. TAYLOR, ET UX	9-14-51	1.621
H	MARGARET K. FOX (LIFE)	9-13-13	15.513
I	MARGARET K. FOX (LIFE)	9-14-46	18.888
J	WILFORD F. NELSON, JR., ET UX	9-14-31	0.954
K	JOHN F. CUNNINGHAM, ET UX	9-14-22	75.22
L	RONALD R. YOUNG, ET UX - LIFE	9-16-15	52.02
M	ALICE FAYE WINLAND	9-16-19	75.00
N	I. C. YOUNG ESTATE	9-17-2	140.00
O	ROBERT J. COMBS, ET AL	9-18-9	110.75
P	BETTY J. GOULDSBERRY EST., ET AL	9-18-11	60.00
Q	BETTY J. GOULDSBERRY EST., ET AL	9-18-10	20.00
R	I. C. YOUNG ESTATE	9-19-1	80.00

LINE TABLE

LINE	BEARING	DISTANCE
L1	N 00°35' W	148.34'
L2	N 02°50' W	306.55'
L3	N 03°08' W	775.78'
L4	S 21°57' W	1350.16'
L5	S 19°58' E	1685.23'

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	88.49'	243.38'	N 05°28' E	88.00'
C2	78.72'	74.86'	N 44°34' E	75.15'
C3	52.65'	118.14'	S 85°30' E	52.22'
C4	100.98'	329.77'	S 61°46' E	100.59'
C5	222.62'	918.31'	S 45°55' E	222.08'
C6	281.74'	1618.82'	S 34°04' E	281.38'



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

LEGEND

AS DRILLED ———

PROPOSED - - - - -

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

NAD'83 S.P.C.(FT)	N. 464,895.15	E. 1,629,684.36
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BOTTOM HOLE

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NAD'83 GEO.	LAT-(N) 39.747823	LONG-(W) 80.685150
NAD'83 UTM (M)	N. 4,399,816.1	E. 526,974.1



(+) 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)

02/07/2025

SCALE 1" = 2000' FILE NO. 8789P9HM9 Asdrilled.dwg

DATE JULY 27, 2018

REVISED NOVEMBER 6, 2023

OPERATORS WELL NO. Knob Creek S-9HM

API WELL **47-051-02285**

NO. STATE COUNTY PERMIT

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

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

COUNTY NAME PERMIT