

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

API 47 - 051 - 02267 County Marshall District Meade
Quad Glen Easton 7.5' Pad Name KNOB CREEK Field/Pool Name N/A WV Department of Environmental Protection
Farm name David Lee Franklin Well Number Knob Creek N-4HM (L027470)
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 4,402,268.07 Easting 525,222.67
Landing Point of Curve Northing 4,402,720.7 Easting 525,312.0
Bottom Hole Northing 4,406,132.3 Easting 523,328.3

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 13.98 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 10/21/2019 Date drilling commenced 07/28/2020 Date drilling ceased 12/03/2023
Date completion activities began 06/18/2024 Date completion activities ceased 08/13/2024
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

APPROVED

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:

[Signature]
02/07/2025
12/23/2024

WR-35
Rev. 8/23/13

API 47-051 - 02267

Farm name David Lee Franklin

Well number Knob Creek N-4HM (L027470)

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"	493'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2295'	NEW	J-55 36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4", 8-1/2"	5-1/2"	19,776'	NEW	P-110 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 939' 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	329	15.6	1.21	398	0	8+
Surface	CLASS A	701	15.6	1.18	827	0	8
Coal							
Intermediate 1	CLASS A	729	15.6	1.18	860	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3710	15.0	1.18	4378	939'	8+
Tubing							

Drillers TD (ft) 19,801' 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) 986'
 Check all wireline logs run caliper density deviated/directional induction temperature
 neutron resistivity gamma ray 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 52

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 _____

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Well number Knob Creek N-4HM (L027470)

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)

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WV Department of
Environmental Protection

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)

Please insert additional pages as applicable.

02/07/2025

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PRODUCING FORMATION(S)

DEPTHS

	TVD	MD

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Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

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

OPEN FLOW Gas _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		

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 American Cementing
Address 603 US Highway 19 N City Weston State WV Zip 26452

Please insert additional pages as applicable.

Completed by Jacob Caplan Telephone 412-215-2723
Signature [Signature] Title Mgr Completions Engr Date 2024-11-07

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

02/07/2025

API 47- 051 - 02267 Farm name David Lee Franklin Well number Knob Creek N-4HM (L027470)

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 N-4HM (L027470) Final Formations API# 47-051-02267					
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	1,508
Big Lime		1,509	1,508	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	2,355
Sand/Shale		2,357	2,355	2,359	2,357
Gordon		2,359	2,357	2,437	2,435
50F		2,437	2,435	2,508	2,506
Sand/Shale		2,508	2,506	3,008	3,005
Speechley		3,008	3,005	4,852	4,768
Alexander		4,852	4,768	5,302	5,183
Elks		5,302	5,183	6,077	5,888
Sonyea		6,077	5,888	6,180	5,969
Middlesex		6,180	5,969	6,217	5,996
Genesee		6,217	5,996	6,280	6,038
Geneseo		6,280	6,038	6,330	6,069
Tully		6,330	6,069	6,383	6,099
Hamilton		6,383	6,099	6,586	6,178
Marcellus		6,586	6,178	19,801	6,212

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**Knob Creek N Lease
Well 4HM
EQT Production Co.**

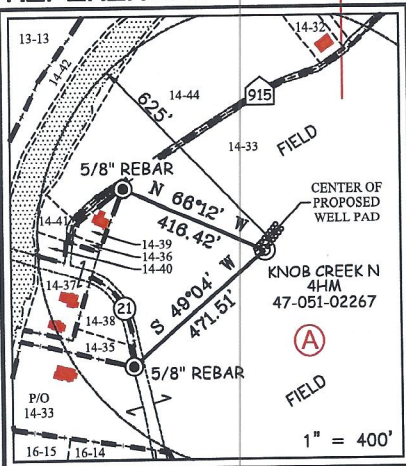
T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°50'00"

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)		
NAD'83 S.P.C.(FT)	N. 464,835.51	E. 1,629,662.35
NAD'83 GEO.	LAT-(N) 39.769970	LONG-(W) 80.705499
NAD'83 UTM (M)	N. 4,402,268.07	E. 525,222.67
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 466,248.2	E. 1,630,017.6
NAD'83 GEO.	LAT-(N) 39.773861	LONG-(W) 80.704303
NAD'83 UTM (M)	N. 4,402,700.3	E. 525,323.7
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 477,618.2	E. 1,623,654.4
NAD'83 GEO.	LAT-(N) 39.804836	LONG-(W) 80.727493
NAD'83 UTM (M)	N. 4,406,131.8	E. 523,327.2

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-10-8	BRENT ALLEN CONNER	2.00
9-10-10	RALPH MARTIN TAYLOR	2.23
9-10-14	WILLIAM MCCONNELL	15.00
9-11-1	GERALD F. PADLOW	1.033
9-11-2.1	KENNETH F. GATEWOOD, ET UX	0.308
9-11-2.2	GERALD F. PADLOW, ET UX	0.291
9-13-10	ARTHUR L. MOORE	3.96
9-13-13	MARGARET K. FOX - LIFE	15.513
9-14-1.2	KENNETH N. & TERESA A. SMERTNECK	1.02
9-14-11.3	PATRICK J. SCHELLHASE - TRUST	23.424
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	TWILA C. COFFIELD	0.583
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

MAP/PARCEL	ADJOINING SURFACE OWNER LIST - CONTINUED	ACRES
9-14-38	MARGARET FOX - LIFE	0.631
9-14-39	MARGARET FOX - LIFE	8675 SQ. FT.
9-14-40	MARGARET FOX - LIFE	19,500 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
9-14-44	DAVID LEE FRANKLIN	2.913
9-14-45	GEORGE R. TAYLOR, ET UX	10.98
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
9-14-52	JAMES E. PEELMAN	0.439
9-14-53	JAMES E. PEELMAN	0.555
9-14-54	RICHARD L. HARVETH, ET UX	1.649
9-16-14	LYNN CAMP METHODIST CHURCH	0.762
9-16-15	RONALD R. YOUNG, ET UX - LIFE	32.02
9-16-15.1	ERIC J. YOUNG	1.98

REFERENCES



AS DRILLED COORDINATES FOR WELL NO. 8HM		
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)		
NAD'83 S.P.C.(FT)	N. 464,835.51	E. 1,629,662.35
NAD'83 GEO.	LAT-(N) 39.769970	LONG-(W) 80.705499
NAD'83 UTM (M)	N. 4,402,268.07	E. 525,222.67
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 466,316.0	E. 1,629,980.4
NAD'83 GEO.	LAT-(N) 39.774045	LONG-(W) 80.704438
NAD'83 UTM (M)	N. 4,402,720.7	E. 525,312.0
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 477,618.2	E. 1,623,657.8
NAD'83 GEO.	LAT-(N) 39.804841	LONG-(W) 80.727481
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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.

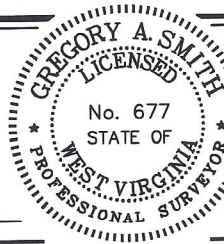


12 Washburn Drive | P.O. Box 150 | Glenville, WV 25951 | 304-462-5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304-346-3952
254 East Beckley Bypass | Beckley, WV 25801 | 304-358-9295
slsw.com

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, 2018

REVISED DECEMBER 7, 2023

OPERATORS WELL NO. KNOB CREEK N-4HM

API WELL NO. 47 - 051 - 02267
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)
FILE NO. 8789P Knob Crk N-4HM AD.dwg
SCALE 1" = 2000'
KNOB CREEK N-4HM REV2

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 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: 6,359' / TMD: 19,823'

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

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

02/07/2025

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°42'30"
7,903' T.H.
10,379 B.H.

**KNOB CREEK N LEASE
WELL 4HM
EQT PRODUCTION CO.**

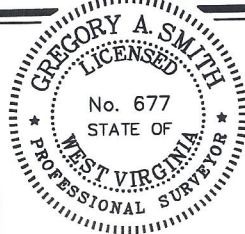
LINE	BEARING	DISTANCE
L1	S 89°03' E	50.59'
L2	N 28°00' E	673.19'
L3	S 22°02' W	1286.61'
L4	S 21°24' E	1637.20'

TAG	SURFACE OWNER	PARCEL	ACRES
A	DAVID LEE FRANKLIN	9-14-33	65.824
B	WILFORD F. NELSON, JR., ET UX	9-14-31	0.954
C	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
D	GEORGE R. TAYLOR, ET UX	9-14-44.1	4.423
E	GEORGE R. TAYLOR, ET UX	9-14-51	1.621
F	MARGARET K. FOX - LIFE	9-14-46	18.888
G	MARGARET K. FOX - LIFE	9-14-13	3.00
H	NILA JEAN FROHNAPFEL	9-13-12	91.1007
I	ROBERT T. & BARBARA A. ANKROM	9-13-12.1	2.632
J	KENNETH & TERESA A. SMERTNECK	9-13-11	112.67
K	MARGARET K. FOX (LIFE)	9-11-2	84.378
L	RAY A. WETZAL, JR., ET AL	9-10-13	71.119
M	J. F. CROW ESTATE, ET AL	9-10-11	60.00
N	J. F. CROW ESTATE, ET AL	9-10-9	17 AC. 14 P.
O	RONALD K. & RUBY M. MASON	9-6-12	59.00
P	KENNETH W. MASON EST.	9-6-14	19.37
Q	J. F. CROW ESTATE, ET AL	9-6-15	55.23
R	ROBERT LEE CARNEY, ET UX	9-6-4	118.17



WV Department of Environmental Protection
 1000 Kanawha Boulevard East | Charleston, WV 25301 | 304.462.5934
 14 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 slsw.com

LEGEND
 AS DRILLED ———
 PROPOSED - - - - -



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

P.S. 677 *Gregory A. Smith*

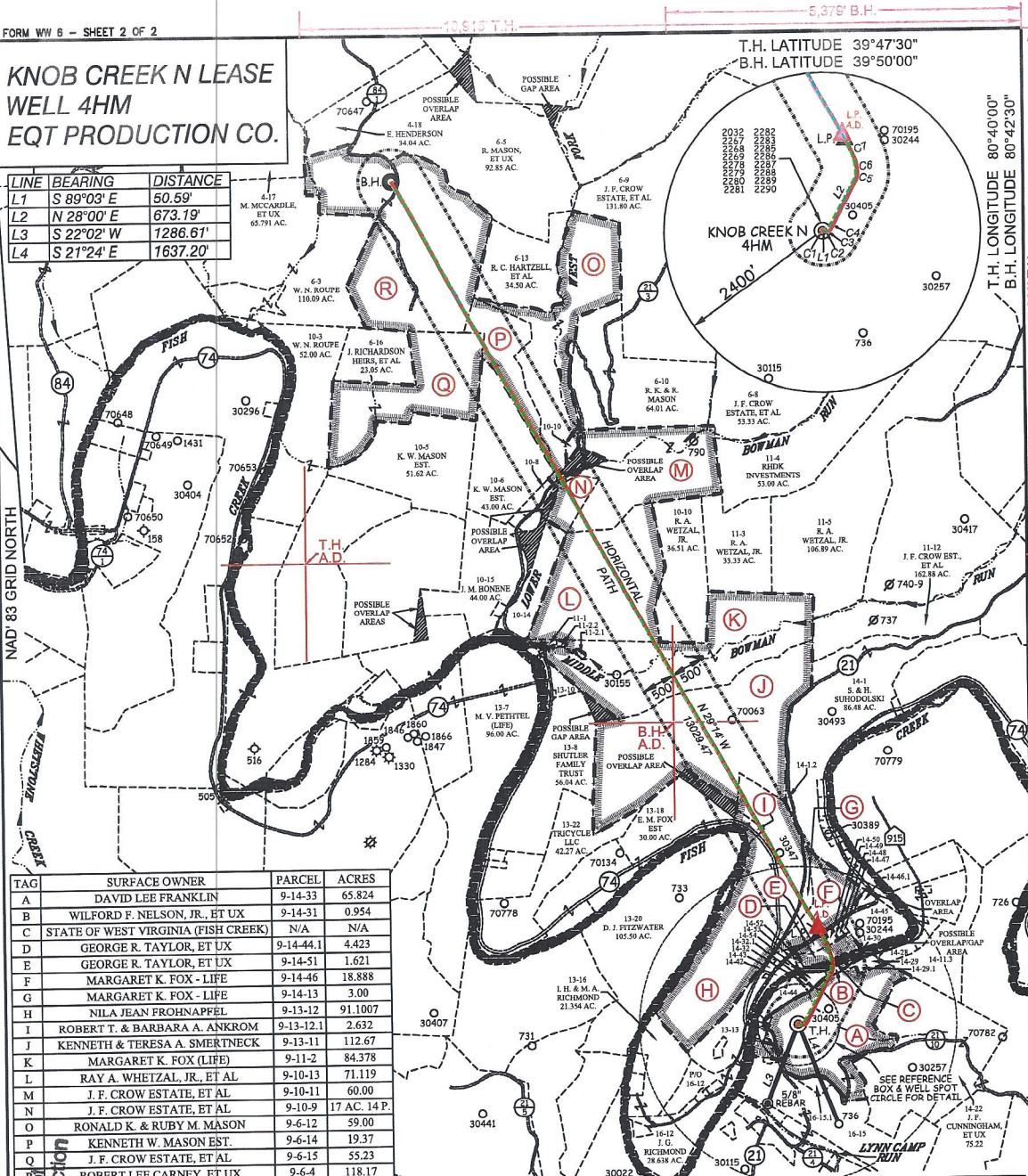
LEGEND

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

SCALE 1" = 2000' FILE NO. 8789P Knob Crk N-4HM AD.dwg
 KNOB CREEK N-4HM REV2
 DATE JULY 27, 2013
 REVISED DECEMBER 7, 2023
 OPERATORS WELL NO. KNOB CREEK N-4HM
 API WELL 47 — 051 — 02267
 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



CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	3.50'	6.71'	S 66°36' E	3.46'
C2	8.10'	11.53'	N 60°51' E	7.94'
C3	28.03'	122.16'	N 40°21' E	27.97'
C4	200.90'	2018.24'	N 30°07' E	200.82'
C5	109.60'	244.40'	N 11°52' E	108.69'
C6	174.52'	736.03'	N 07°19' W	174.11'
C7	371.40'	1415.28'	N 22°19' W	370.33'

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COUNTY NAME PERMIT

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Perforation Data

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Environmental Protection

02/07/2025

Stage No.	Perforation Date	Stage Perforated From TMD Ft.	Stage Perforated To TMD Ft.	# of Perforations/Stage	Formation(s)
2	06/18/2024	19678	19527	48	Marcellus
3	06/21/2024	19498	19347	48	Marcellus
4	06/21/2024	19318	19167	48	Marcellus
5	06/22/2024	19138	18987	48	Marcellus
6	06/22/2024	18958	18807	48	Marcellus
7	06/22/2024	18778	18627	48	Marcellus
8	06/23/2024	18598	18447	48	Marcellus
9	06/24/2024	18418	18267	48	Marcellus
10	06/25/2024	18238	18087	48	Marcellus
11	06/26/2024	18058	17907	48	Marcellus
12	06/26/2024	17878	17727	48	Marcellus
13	06/27/2024	17698	17547	48	Marcellus
14	06/28/2024	17518	17367	48	Marcellus
15	06/28/2024	17338	17187	48	Marcellus
16	06/29/2024	17158	17007	48	Marcellus
17	06/29/2024	16978	16827	48	Marcellus
18	06/30/2024	16798	16647	48	Marcellus
19	06/30/2024	16618	16467	48	Marcellus
20	07/02/2024	16438	16288	48	Marcellus
21	07/02/2024	16259	16108	48	Marcellus
22	07/03/2024	16079	15928	48	Marcellus
23	07/03/2024	15899	15748	48	Marcellus
24	07/04/2024	15719	15568	48	Marcellus
25	07/04/2024	15539	15388	48	Marcellus
26	07/05/2024	15359	15208	48	Marcellus
27	07/05/2024	15179	15028	48	Marcellus
28	07/06/2024	14999	14848	48	Marcellus
29	07/07/2024	14819	14668	48	Marcellus
30	07/07/2024	14639	14488	48	Marcellus
31	07/07/2024	14459	14308	48	Marcellus
32	07/08/2024	14279	14128	48	Marcellus
33	07/08/2024	14099	13948	48	Marcellus
34	07/08/2024	13919	13768	48	Marcellus
35	07/08/2024	13739	13588	48	Marcellus
36	07/09/2024	13559	13408	48	Marcellus
37	07/10/2024	13379	13228	48	Marcellus
38	07/11/2024	13199	13048	48	Marcellus
39	07/11/2024	13019	12868	48	Marcellus
40	07/12/2024	12839	12688	48	Marcellus
41	07/12/2024	12659	12508	48	Marcellus
42	07/19/2024	12479	12328	48	Marcellus

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WV Department of
Environmental Protection

02/07/2025

43	07/19/2024	12299	12148	48	Marcellus
44	07/19/2024	12119	11968	48	Marcellus
45	07/19/2024	11939	11788	48	Marcellus
46	07/19/2024	11759	11608	48	Marcellus
47	07/20/2024	11579	11428	48	Marcellus
48	07/20/2024	11399	11248	48	Marcellus
49	07/20/2024	11219	11068	48	Marcellus
50	07/20/2024	11039	10888	48	Marcellus
51	07/20/2024	10859	10708	48	Marcellus
52	07/20/2024	10679	10528	48	Marcellus
53	07/20/2024	10499	10348	48	Marcellus
54	07/20/2024	10319	10168	48	Marcellus
55	07/21/2024	10139	9988	48	Marcellus
56	07/21/2024	9959	9808	48	Marcellus
57	07/21/2024	9779	9628	48	Marcellus
58	07/21/2024	9599	9448	48	Marcellus
59	07/21/2024	9419	9268	48	Marcellus
60	07/21/2024	9239	9088	48	Marcellus
61	07/21/2024	9059	8908	48	Marcellus
62	07/21/2024	8879	8728	48	Marcellus
63	07/21/2024	8699	8548	48	Marcellus
64	07/22/2024	8519	8368	48	Marcellus
65	07/22/2024	8339	8188	48	Marcellus
66	07/22/2024	8158	8007	48	Marcellus
67	07/22/2024	7978	7827	48	Marcellus
68	07/22/2024	7798	7647	48	Marcellus
69	07/22/2024	7618	7467	48	Marcellus
70	07/22/2024	7438	7287	48	Marcellus
71	07/22/2024	7258	7107	48	Marcellus
72	07/23/2024	7078	6927	48	Marcellus
73	07/23/2024	6898	6747	48	Marcellus

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Stimulation Data

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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	06/18/2024	75	7205	7257	3726	225601	7172.83	
2	06/21/2024	95	8906	0	5186	450240	9164.12	
3	06/21/2024	93	8608	8543	5002	451340	9144.12	
4	06/22/2024	100	8641	0	4779	450200	9163.81	
5	06/22/2024	100	8456	7570	4952	450480	9117.71	
6	06/23/2024	98	8841	0	4598	450080	9142.86	
7	06/23/2024	95	8686	8959	4978	451720	9150.02	
8	06/24/2024	95	8815	7074	4432	450820	9065.93	
9	06/25/2024	95	8662	6654	4783	450382	9118.71	
10	06/26/2024	98	8792	8561	4865	450348	9077.76	
11	06/27/2024	97	8859	0	5106	450140	9181.83	
12	06/27/2024	99	8835	8734	4840	449915	9141.81	
13	06/28/2024	99	8764	0	4865	450040	9077.60	
14	06/28/2024	92	8841	8711	4596	450000	9122.19	
15	06/29/2024	99	8785	0	5316	437000	9139.40	
16	06/29/2024	99	8743	8517	5473	448200	9115.33	
17	06/30/2024	99	8583	8577	5203	450359	9090.00	
18	07/01/2024	100	8431	0	4943	449069	9074.76	
19	07/02/2024	99	8792	8542	4823	454035	9139.45	
20	07/03/2024	97	8805	8557	4893	450273	9126.17	
21	07/03/2024	100	8595	8534	4998	450885	9063.79	
22	07/03/2024	100	8598	8620	4772	451112	9141.31	
23	07/04/2024	90	8745	9412	4715	450925	9179.36	
24	07/04/2024	99	8639	9078	4808	451082	9072.12	
25	07/05/2024	99	8184	8886	4622	449184	9060.57	
26	07/05/2024	89	8738	9267	4721	365349	8896.45	
27	07/06/2024	100	8153	8666	4922	451030	9043.86	
28	07/07/2024	34	8658	8544	4883	440555	12167.98	
29	07/07/2024	99	8254	8935	4722	450193	9033.24	
30	07/07/2024	100	8204	8587	5127	450331	9033.64	
31	07/08/2024	100	8034	8814	5259	450891	9065.57	
32	07/08/2024	100	8030	8993	4917	450035	9016.55	
33	07/08/2024	97	8446	8805	5014	451298	9015.69	
34	07/09/2024	91	8745	9239	5353	448708	9000.36	
35	07/09/2024	66	8795	8917	4673	448000	10384.48	
36	07/10/2024	65	8685	9096	4880	453607	12354.98	
37	07/12/2024	5	7875	8855	5268	450590	10180.29	
38	07/12/2024	100	8032	7876	5289	451408	8978.02	
39	07/12/2024	100	8014	8374	5049	450416	8964.55	
40	07/12/2024	100	7394	0	5141	411763	8948.43	
41	07/12/2024	84	8005	0	5714	373660	9167.10	

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WV Department of
Environmental Protection

02/07/2025

42	07/19/2024	93	7175	0	5357	429440	8734.48
43	07/19/2024	100	7892	0	5150	450070	8909.90
44	07/19/2024	100	7855	0	5108	454390	8976.36
45	07/20/2024	100	7833	8334	5014	450694	8919.36
46	07/20/2024	83	8033	8522	4794	450130	9309.00
47	07/20/2024	100	7416	0	4992	443040	8908.07
48	07/20/2024	100	7629	0	4955	456202	8843.74
49	07/20/2024	100	7233	0	5000	449130	8838.36
50	07/20/2024	100	6980	0	4910	453150	8785.17
51	07/21/2024	100	7144	8343	4960	450098	8848.10
52	07/21/2024	100	7623	8373	5153	450052	8837.76
53	07/21/2024	100	7125	8242	5203	450165	8841.71
54	07/21/2024	100	7320	8524	5209	450373	8815.64
55	07/21/2024	100	6721	0	5100	453162	8846.67
56	07/21/2024	100	6901	0	5298	418390	8756.26
57	07/21/2024	100	7278	0	5402	452170	8752.55
58	07/21/2024	100	7049	0	5297	452150	8746.86
59	07/21/2024	100	7135	0	5387	451100	8735.07
60	07/21/2024	100	7128	8122	5193	450054	8752.52
61	07/22/2024	100	7144	8127	5266	450175	8825.14
62	07/22/2024	100	7487	8183	5085	450136	8763.40
63	07/22/2024	100	6942	7901	5244	450424	8793.17
64	07/22/2024	97	7893	8181	4804	442919	8766.40
65	07/22/2024	100	6644	0	5378	458112	8699.60
66	07/22/2024	99	7437	0	4947	455120	8761.05
67	07/22/2024	99	6894	7206	4883	447300	8829.62
68	07/22/2024	99	6975	8051	5017	450160	8814.02
69	07/23/2024	100	7464	7909	5212	450145	8734.67
70	07/23/2024	100	6712	7544	5140	450261	8734.10
71	07/23/2024	100	6754	8116	5274	450088	8751.14
72	07/23/2024	100	6467	7791	5119	450656	8777.26
73	07/23/2024	100	6415	7179	4977	449280	8836.07

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Hydraulic Fracturing Fluid Product Component Information Disclosure



Job Start Date:	06/18/2024
Job End Date:	07/23/2024
State:	West Virginia
County:	Marshall
API Number:	47-051-02267-00-00
Operator Name:	EQT Production
Well Name and Number:	Knob Creek N-4HM
Latitude:	39.769972
Longitude:	-80.705501
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6240
Total Base Water Volume (gal)*:	27784594.74
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	87.56585	None
Sand (Proppant)	EQT	Proppant					
			Silica Substrate	14808-60-7	100.00000	12.23250	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ALKANES, C12-26-BRANCHED AND LINEAR	90622-53-0	40.00000	0.02141	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ACRYLAMIDE-CHLORIDE SALT OF TRIMETHYLAMMONIO-ETHYL ACRYLATE COPOLYMER	69418-26-4	40.00000	0.02141	None
Clearal 268	ChemStream	Biocide					
			Water	7732-18-5	80.00000	0.00879	None

02/07/2025

StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Water	7732-18-5	15.00000	0.00301	None
HCR-7000 WL	Fluid USA, Inc.	Synthetic Acid					
			FLUID-Acid-00001	Proprietary	20.00000	0.00180	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	0.00045	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ETHOXYLATED ALCOHOLS (C12-16)	68551-12-2	5.00000	0.00033	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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**KNOB CREEK N LEASE
WELL 4HM
EQT PRODUCTION CO.**

T.H. LATITUDE 39°47'30"
B.H. LATITUDE 39°50'00"

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

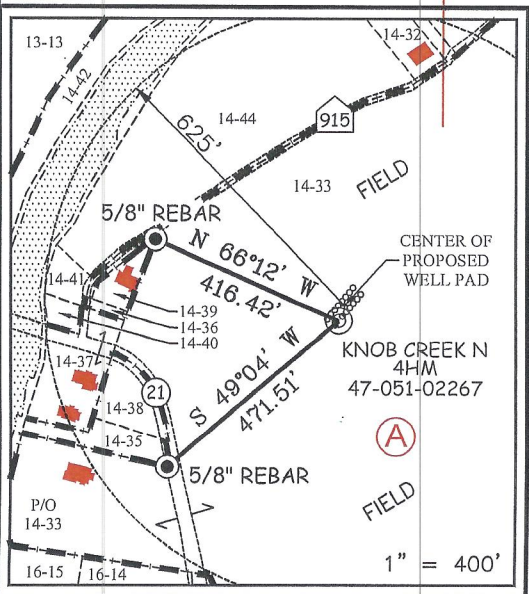
NAD'83 S.P.C.(FT)	N. 464,835.51	E. 1,629,662.35
NAD'83 GEO.	LAT-(N) 39.769970	LONG-(W) 80.705499
NAD'83 UTM (M)	N. 4,402,268.07	E. 525,222.67
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 466,248.2	E. 1,630,017.6
NAD'83 GEO.	LAT-(N) 39.773861	LONG-(W) 80.704303
NAD'83 UTM (M)	N. 4,402,700.3	E. 525,323.7
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 477,618.2	E. 1,623,654.4
NAD'83 GEO.	LAT-(N) 39.804836	LONG-(W) 80.727493
NAD'83 UTM (M)	N. 4,406,131.8	E. 523,327.2

T.H. LONGITUDE 80°40'00"
B.H. LONGITUDE 80°42'30"

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-10-8	BRENT ALLEN CONNER	2.00
9-10-10	RALPH MARTIN TAYLOR	2.23
9-10-14	WILLIAM MCCONNELL	15.00
9-11-1	GERALD F. PADLOW	1.033
9-11-2.1	KENNETH P. GATEWOOD, ET UX	0.308
9-11-2.2	GERALD F. PADLOW, ET UX	0.291
9-13-10	ARTHUR L. MOORE	3.96
9-13-13	MARGARET K. FOX - LIFE	15.513
9-14-1.2	KENNETH N. & TERESA A. SMERINCEK	1.02
9-14-11.3	PATRICK J. SCHELLHASE - TRUST	23.424
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	TWILA C. COFFIELD	0.583
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

MAP/PARCEL	ADJOINING SURFACE OWNER LIST - CONTINUED	ACRES
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
9-14-44	DAVID LEE FRANKLIN	2.913
9-14-45	GEORGE R. TAYLOR, ET UX	10.98
9-14-46.1	MARTHA JANE FAZZARO	1.512
9-14-47	MICHAEL L. & CHERYL J. ACRREE	0.355
9-14-48	MICHAEL L. & CHERYL J. ACRREE	0.473
9-14-49	MICHAEL L. & CHERYL J. ACRREE	0.118
9-14-50	RONALD MARSH	0.707
9-14-52	JAMES E. PEELMAN	0.439
9-14-53	JAMES E. PEELMAN	0.555
9-14-54	RICHARD L. HARVETH, ET UX	1.649
9-16-14	LYNN CAMP METHODIST CHURCH	0.762
9-16-15	RONALD R. YOUNG, ET UX - LIFE	52.02
9-16-15.1	ERIC J. YOUNG	1.98

REFERENCES



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

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

NAD'83 S.P.C.(FT)	N. 464,835.51	E. 1,629,662.35
NAD'83 GEO.	LAT-(N) 39.769970	LONG-(W) 80.705499
NAD'83 UTM (M)	N. 4,402,268.07	E. 525,222.67
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 466,316.0	E. 1,629,980.4
NAD'83 GEO.	LAT-(N) 39.774045	LONG-(W) 80.704438
NAD'83 UTM (M)	N. 4,402,720.7	E. 525,312.0
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 477,619.9	E. 1,623,657.8
NAD'83 GEO.	LAT-(N) 39.804841	LONG-(W) 80.727481
NAD'83 UTM (M)	N. 4,406,132.3	E. 523,328.3

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.



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
slsw.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 DECEMBER 7, 2023
OPERATORS WELL NO. KNOB CREEK N-4HM
API WELL NO. 47 - 051 - 02267
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)
FILE NO. 8789P Knob Crk N-4HM AD.dwg
KNOB CREEK N-4HM REV2
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 GLEN EASTON 7.5'

SURFACE OWNER DAVID LEE FRANKLIN ACREAGE 65.824±
ROYALTY OWNER DAVID LEE FRANKLIN, ET AL - SEE WW-6A1 ACREAGE 05207/2025

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

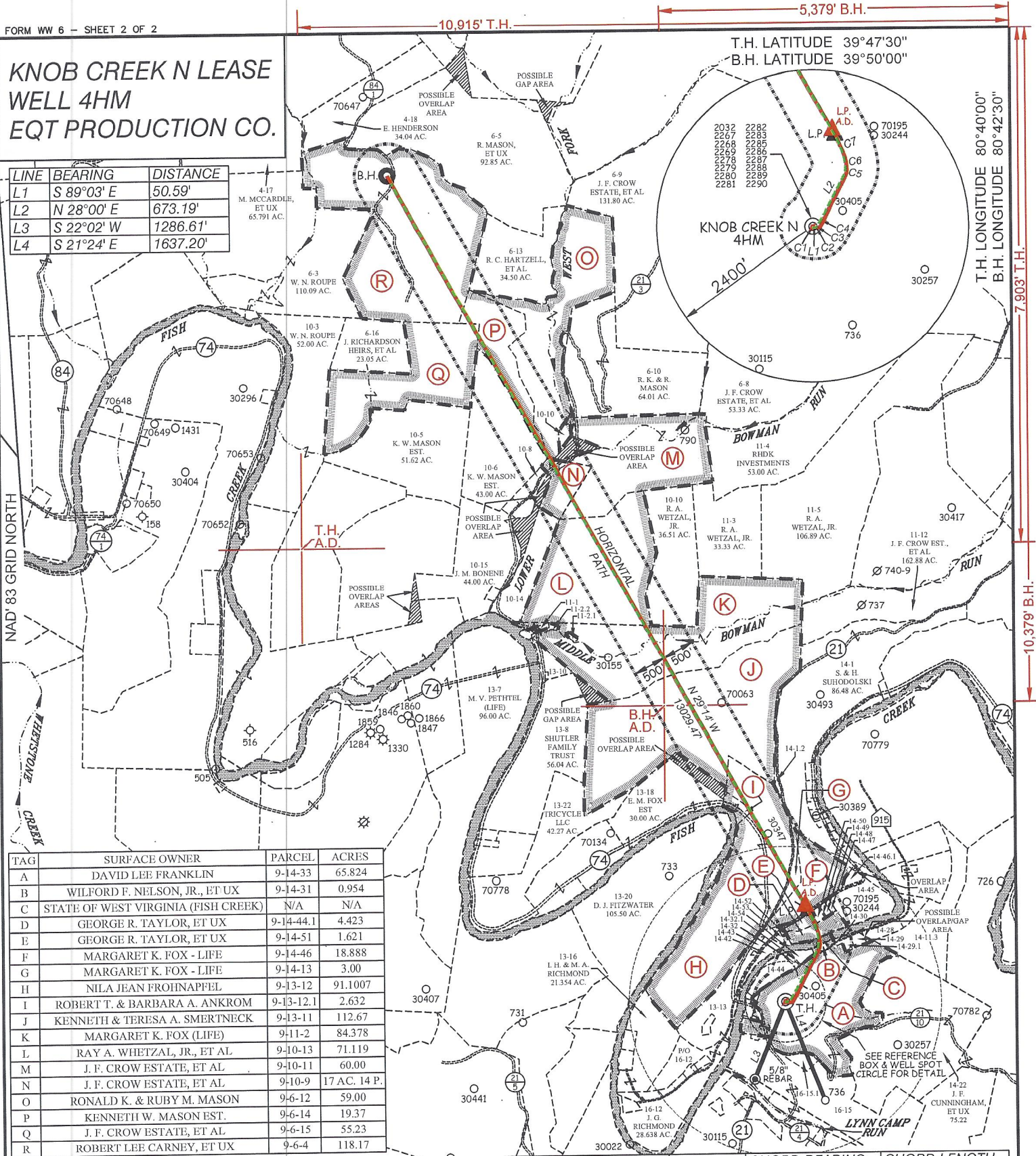
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
ESTIMATED DEPTH TVD: 6,359' / TMD: 19,823'

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

Knob Creek N Lease Well 4HM EQT Production Co.

LINE	BEARING	DISTANCE
L1	S 89°03' E	50.59'
L2	N 28°00' E	673.19'
L3	S 22°02' W	1286.61'
L4	S 21°24' E	1637.20'



TAG	SURFACE OWNER	PARCEL	ACRES
A	DAVID LEE FRANKLIN	9-14-33	65.824
B	WILFORD F. NELSON, JR., ET UX	9-14-31	0.954
C	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
D	GEORGE R. TAYLOR, ET UX	9-14-44.1	4.423
E	GEORGE R. TAYLOR, ET UX	9-14-51	1.621
F	MARGARET K. FOX - LIFE	9-14-46	18.888
G	MARGARET K. FOX - LIFE	9-14-13	3.00
H	NILA JEAN FROHNAPFEL	9-13-12	91.1007
I	ROBERT T. & BARBARA A. ANKROM	9-13-12.1	2.632
J	KENNETH & TERESA A. SMERTNECK	9-13-11	112.67
K	MARGARET K. FOX (LIFE)	9-11-2	84.378
L	RAY A. WHETZAL, JR., ET AL	9-10-13	71.119
M	J. F. CROW ESTATE, ET AL	9-10-11	60.00
N	J. F. CROW ESTATE, ET AL	9-10-9	17 AC. 14 P.
O	RONALD K. & RUBY M. MASON	9-6-12	59.00
P	KENNETH W. MASON EST.	9-6-14	19.37
Q	J. F. CROW ESTATE, ET AL	9-6-15	55.23
R	ROBERT LEE CARNEY, ET UX	9-6-4	118.17

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	3.50'	6.71'	S 66°36' E	3.46'
C2	8.10'	11.53'	N 60°51' E	7.94'
C3	28.03'	122.16'	N 40°21' E	27.97'
C4	200.90'	2018.24'	N 30°07' E	200.82'
C5	109.60'	244.40'	N 11°52' E	108.69'
C6	174.52'	736.03'	N 07°19' W	174.11'
C7	371.40'	1415.28'	N 22°19' W	370.33'



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
 slsww.com

LEGEND

AS DRILLED	
PROPOSED	

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

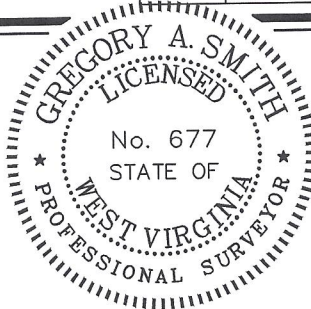
NAD'83 S.P.C.(FT)	N. 464,835.51	E. 1,629,662.35
NAD'83 GEO.	LAT.-(N) 39.769970	LONG.-(W) 80.705499
NAD'83 UTM (M)	N. 4,402,268.07	E. 525,222.67

LANDING POINT

NAD'83 S.P.C.(FT)	N. 466,248.2	E. 1,690,017.6
NAD'83 GEO.	LAT.-(N) 39.773861	LONG.-(W) 80.704303
NAD'83 UTM (M)	N. 4,402,700.3	E. 525,323.7

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 477,618.2	E. 1,623,654.4
NAD'83 GEO.	LAT.-(N) 39.804836	LONG.-(W) 80.727493
NAD'83 UTM (M)	N. 4,406,131.8	E. 523,327.2



(+) 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. 8789P Knob Crk N-4HM AD.dwg

DATE JULY 27, 2018

REVISED DECEMBER 7, 2023

OPERATORS WELL NO. KNOB CREEK N-4HM

API WELL NO. 47-051-02267

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

02/07/2025