

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 - 02278 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 N-1HM (L027467)
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 4,402,269.4 Easting 525,215.2
Landing Point of Curve Northing 4,402,375.7 Easting 524,717.9
Bottom Hole Northing 4,407,532.5 Easting 521,718.4

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 14.03 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 07/21/2020 Date drilling ceased 12/11/2023
Date completion activities began 05/05/2024 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:

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

API 47-051 - 02278 Farm name David Lee Franklin Well number Knob Creek N-1HM (L027467)

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"	499'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2284'	NEW	J-55 36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4", 8-1/2"	5-1/2"	26,502'	NEW	P-110 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 669' 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	704	15.6	1.18	830	0	8
Coal							
Intermediate 1	CLASS A	792	15.6	1.18	934	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	5063	15.0	1.18	5974	669'	8+
Tubing							

Drillers TD (ft) 26,521' Loggers TD (ft) N/A
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

RECEIVED
Office Of Oil and Gas

NOV 12 2024

Kick off depth (ft) 1426'

WV Department of Environmental Protection

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 95'

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 - 02278 Farm name David Lee Franklin Well number Knob Creek N-1HM (L027467)

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6,085-6,196</u> TVD	<u>6,411-26,521</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump
 SHUT-IN PRESSURE Surface 3121 psi Bottom Hole psi DURATION OF TEST 24 hrs
 OPEN FLOW Gas 10896 mcfpd Oil 0 bpd NGL 553 bpd Water 348 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	<u>0</u>		<u>0</u>		
					RECEIVED Office Of Oil and Gas
					NOV 12 2024
					WV Department of Environmental Protection

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  Title Mgr Completions Engr Date 2024-11-07

API 47- 051 - 02278 Farm name David Lee Franklin Well number Knob Creek N-1HM (L027467)

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 _____

RECEIVED
Office Of Oil and Gas

NOV 12 2024

WV Department of
Environmental Protection

02/07/2025

Well # KNOB CREEK N-1HM (L027467) Final Formations API# 47-051-02278				
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	2,094
Berea	2,095	2,094	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	2,505
Sand/Shale	2,508	2,505	3,008	3,003
Speechley	3,008	3,003	4,852	4,742
Alexander	4,852	4,742	5,302	5,151
Elks	5,302	5,151	5,941	5,733
Sonyea	5,941	5,733	6,035	5,816
Middlesex	6,035	5,816	6,069	5,846
Genesee	6,069	5,846	6,126	5,893
Geneseo	6,126	5,893	6,172	5,930
Tully	6,172	5,930	6,221	5,966
Hamilton	6,221	5,966	6,411	6,085
Marcellus	6,411	6,085	26,521	6,196

RECEIVED
Office Of Oil and Gas

NOV 12 2024

WV Department of
Environmental Protection

RECEIVED
Office Of Oil and Gas

NOV 12 2024

WV Department of
Environmental Protection

02/07/2025

**Knob Creek Well N-1HM
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. 464,840.39	E. 1,629,637.96
NAD'83 GEO.	LAT.-(N) 39.769982	LONG.-(W) 80.705586
NAD'83 UTM (M)	N. 4,402,269.4	E. 525,215.2
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 465,094.8	E. 1,628,084.8
NAD'83 GEO.	LAT.-(N) 39.770623	LONG.-(W) 80.711124
NAD'83 UTM (M)	N. 4,402,339.0	E. 524,740.7
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 482,305.0	E. 1,618,453.4
NAD'83 GEO.	LAT.-(N) 39.817505	LONG.-(W) 80.746235
NAD'83 UTM (M)	N. 4,407,533.2	E. 521,718.9

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

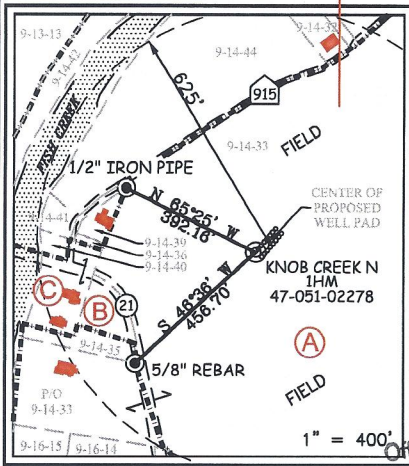
NOTES ON SURVEY

- 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 825' 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.

REFERENCES

T.H.
A.D.



MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-6-1.2	CONSOLIDATION COAL COMPANY, MURRAY ENERGY	2.222
9-10-7	DAVID & PAMELA SCHIMMEL	1.00
9-10-8	BRENT ALLEN CONNER EST	2.00
9-10-16	WILLIAM D. MCCONNELL	0.859
9-11-1	GERALD T. PADLOW	1.033
9-13-7.1	WV DOH	0.28
9-13-9	TH EXPLORATION LLC	0.42
9-13-10	ARTHUR L. MOORE	3.82
9-13-12.1	ANDREW & CHRISTIE FROHNAPFEL	2.632
9-13-14	MARGARET K. FOX - LIFE	3.00
9-13-16	IVAN H. & MARGARET A. RICHMOND	21.354
9-13-22.1	GLORIA J. KLIEM	11.82
9-13-22.2	EUGENE A. SCHERRER	0.925
9-13-23	MARGARET FOX - LIFE	1.52
9-14-11.3	MATTHEW T. & BRYANT T. KLUG	23.42
9-14-28	CHARLES R. SCHELLHASE, ET UX	3.029
9-14-29	TENA M. STRICKLIN	0.209
9-14-29.1	TENA M. 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
9-14-43	JAMES G. FOX	0.66
9-14-44	DAVID L. & LINDA L. FRANKLIN	2.913
9-14-46	MARGARET K. FOX - LIFE	18.888
9-14-54	RICHARD L. HARVETH	1.649
9-16-12	JAMES RICHMOND	25.63
9-16-14	LYNN CAMP METHODIST CHURCH	0.762
9-16-15	GERALDINE YOUNG - LIFE	52.02
9-16-15.1	ERIC J. YOUNG	1.98

7,889' T.H.



12 Vantboram Drive | P.O. Box 190 | Glenville, WV 26351 | 504.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 204.746.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slswv.com

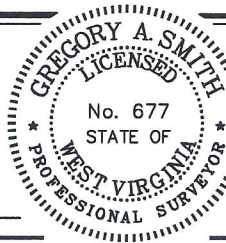
RECEIVED
Office Of Oil and Gas
NOV 12 2024
WV Department of
Environmental Protection

**AS DRILLED COORDINATES
FOR WELL NO. 1HM**

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

NAD'83 S.P.C.(FT)	N. 464,840.39	E. 1,629,637.96
NAD'83 GEO.	LAT.-(N) 39.769982	LONG.-(W) 80.705586
NAD'83 UTM (M)	N. 4,402,269.4	E. 525,215.2
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 465,216.3	E. 1,628,011.9
NAD'83 GEO.	LAT.-(N) 39.770954	LONG.-(W) 80.711389
NAD'83 UTM (M)	N. 4,402,375.7	E. 524,717.9
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 482,302.8	E. 1,618,451.7
NAD'83 GEO.	LAT.-(N) 39.817499	LONG.-(W) 80.746241
NAD'83 UTM (M)	N. 4,407,533.2	E. 521,718.4

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 OCTOBER 18, 2023

REVISED DECEMBER 15, 2023

OPERATORS WELL NO. Knob Creek N-1HM

API WELL NO. 47 - 051 - 02278
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 8789-EQT-KC-N-1HM asDrill-231004-MRH.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 GLEN EASTON 7.5'

SURFACE OWNER DAVID L. & LINDA L. 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: 6,198' / TMD: 26,521'

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

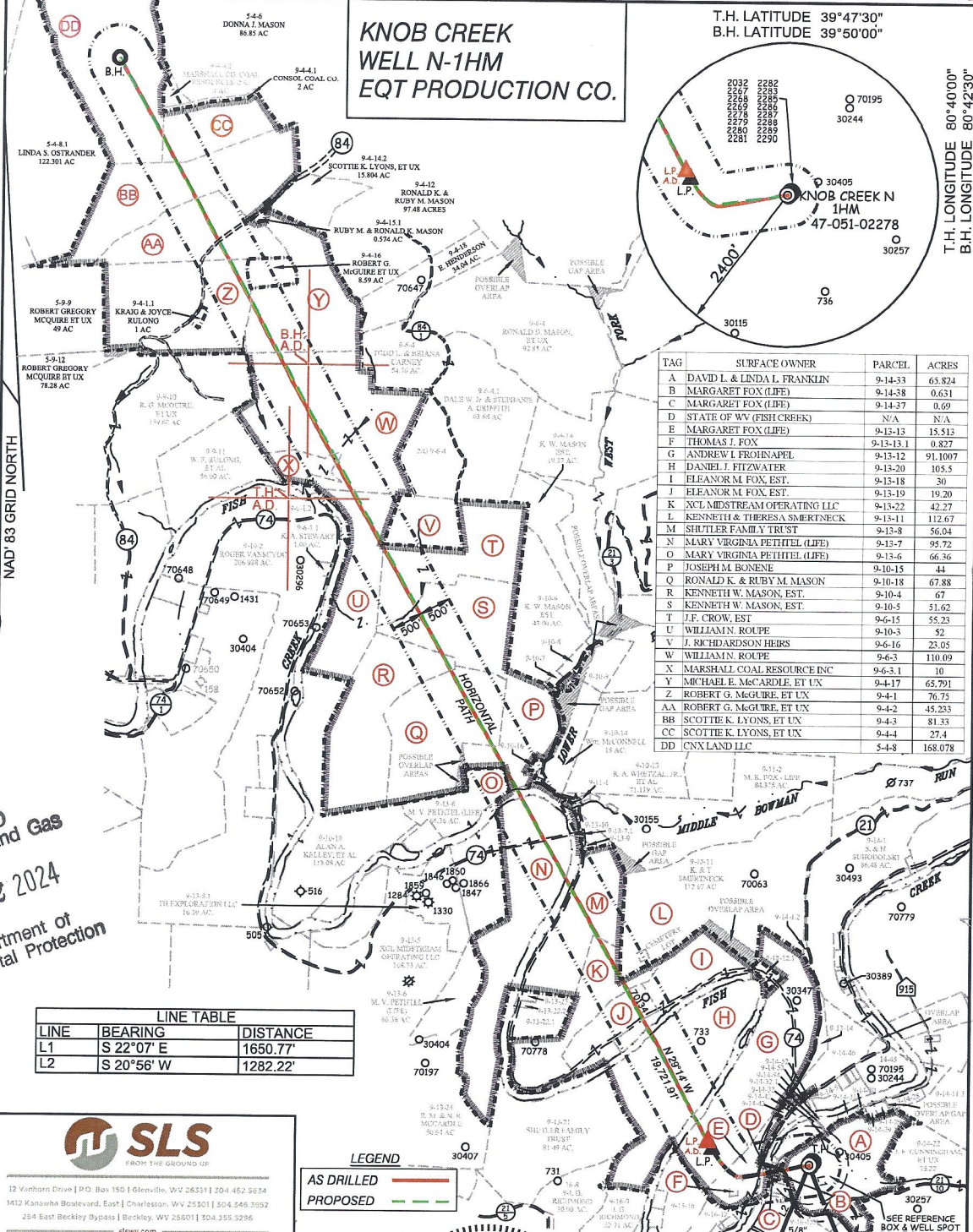
COUNTY NAME
PERMIT

02/07/2025

KNOB CREEK WELL N-1HM EQT PRODUCTION CO.

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

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



TAG	SURFACE OWNER	PARCEL	ACRES
A	DAVID L. & LINDA L. FRANKLIN	9-14-33	65.824
B	MARGARET FOX (LIFE)	9-14-38	0.631
C	MARGARET FOX (LIFE)	9-14-37	0.69
D	STATE OF WV (FISH CREEK)	N/A	N/A
E	MARGARET FOX (LIFE)	9-13-13	15.513
F	THOMAS J. FOX	9-13-13	0.827
G	ANDREW I. FROHNAPEL	9-13-12	91.1007
H	DANIEL J. FITZWATER	9-13-20	105.5
I	ELEANOR M. FOX, EST.	9-13-18	30
J	ELEANOR M. FOX, EST.	9-13-19	19.20
K	XCL MIDSTREAM OPERATING LLC	9-13-22	42.27
L	KENNETH & THERESA SMERTNECK	9-13-11	112.67
M	SHUTLER FAMILY TRUST	9-13-8	56.04
N	MARY VIRGINIA PEHTEL (LIFE)	9-13-7	95.72
O	MARY VIRGINIA PEHTEL (LIFE)	9-13-6	66.36
P	JOSEPH M. BONENE	9-10-15	44
Q	RONALD K. & RUBY M. MASON	9-10-18	67.88
R	KENNETH W. MASON, EST.	9-10-4	67
S	KENNETH W. MASON, EST.	9-10-5	51.62
T	J.F. CROW, EST.	9-6-15	55.23
U	WILLIAM N. ROUPE	9-10-3	42
V	J. RICHARDSON HEIRS	9-6-16	23.05
W	WILLIAM N. ROUPE	9-6-3	110.09
X	MARSHALL COAL RESOURCE INC	9-6-3-1	10
Y	MICHAEL E. McCARDLE, ET UX	9-4-17	65.791
Z	ROBERT G. MCGUIRE, ET UX	9-4-1	76.75
AA	ROBERT G. MCGUIRE, ET UX	9-4-2	45.233
BB	SCOTTIE K. LYONS, ET UX	9-4-3	81.33
CC	SCOTTIE K. LYONS, ET UX	9-4-4	27.4
DD	CNX LAND LLC	5-4-8	168.078

LINE	BEARING	DISTANCE
L1	S 22°07' E	1650.77'
L2	S 20°56' W	1282.22'



12 Yonkers Drive | P.O. Box 150 | Glenville, WV 26031 | 304-462-5634
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304-546-3592
 254 East Beckley Bypass | Beckley, WV 25801 | 304-255-5296
 sls.com

LEGEND

AS DRILLED ——— (red line)

PROPOSED ——— (green line)



(+) 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)			
NAD83 S.P.C.(FT)	N. 464,840.39	E. 1,629,637.96	
NAD83 GEO.	LAT-(N) 39.769982	LONG-(W) 80.705586	
NAD83 UTM (M)	N. 4,402,269.4	E. 525,215.2	
LANDING POINT			
NAD83 S.P.C.(FT)	N. 465,094.8	E. 1,628,084.8	
NAD83 GEO.	LAT-(N) 39.770623	LONG-(W) 80.711124	
NAD83 UTM (M)	N. 4,402,339.0	E. 524,740.7	
BOTTOM HOLE			
NAD83 S.P.C.(FT)	N. 482,305.0	E. 1,618,453.4	
NAD83 GEO.	LAT-(N) 39.817505	LONG-(W) 80.746235	
NAD83 UTM (M)	N. 4,407,533.2	E. 521,718.9	

LEGEND

LEASE LINE ———

SURFACE LINE ———

WELL LATERAL ———

OFFSET LINE ———

TIE LINE ———

CREEK ———

ROAD ———

COUNTY ROUTE ———

PROPOSED WELL (circle with cross)

EXISTING WELL (circle with dot)

PERMITTED WELL (circle with horizontal lines)

TAX MAP—PARCEL (circle with number)

SURFACE OWNER (SEE TABLE) (circle with letter)

LEASE # (SEE WW-6A1) (circle with number)

SCALE 1" = 2000' FILE NO. 8789-EQT-KC-N-1HM asdrill-231004-MRH.dwg

DATE OCTOBER 18, 20 23

REVISED DECEMBER 15, 2023, 20 20

OPERATORS WELL NO. KNOB CREEK N 1HM

API WELL NO. 47-051-02278

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

02/07/2025

RECEIVED
 Office Of Oil and Gas
 NOV 18 2024
 WV Department of
 Environmental Protection

COUNTY NAME _____
 PERMIT _____