

WR-35
Rev. 8/23/13

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 - 02280 County Marshall District Meade WV Department of Environmental Protection
Quad Glen Easton 7.5' Pad Name KNOB CREEK Field/Pool Name N/A
Farm name David Lee Franklin Well Number Knob Creek N-3HM (L027469)
Operator (as registered with the OOG) EQT Production Company State PA Zip 15317
Address 400 Woodcliff Drive City Canonsburg

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,402,274.92 Easting 525,219.95
Landing Point of Curve Northing 4,402,726.4 Easting 525,022.9
Bottom Hole Northing 4,406,002.5 Easting 523,142.8

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 14.5 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 07/22/2020 Date drilling ceased 11/18/2023
Date completion activities began 06/25/2024 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:
02/07/2025
STRADER

WR-35
Rev. 8/23/13

API 47-051 - 02280

Farm name David Lee Franklin

Well number Knob Creek N-3HM (L027469)

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"	506'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2294'	NEW	J-55 36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4", 8-1/2"	5-1/2"	19,232'	NEW	P-110 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 1067' 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	795	15.6	1.18	938	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3605	15.0	1.18	4254	1067'	8+
Tubing							

Drillers TD (ft) 19,247'
 Deepest formation penetrated MARCELLUS
 Plug back procedure N/A

Loggers TD (ft) N/A
 Plug back to (ft) N/A

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Kick off depth (ft) 1268'

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

WR-35
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API 47- 051 - 02280 Farm name David Lee Franklin Well number Knob Creek N-3HM (L027469)

Drilling Contractor Falcon (Rig 24) State PA Zip 15701
Address 1120 US-119 City Indiana

Logging Company Nzone Guidance, LLC State TX Zip 78642
Address 140 Falcon Lane City Liberty Hill

Logging Company _____ State _____ Zip _____
Address _____ City _____

Drilling Contractor _____ State _____ Zip _____
Address _____ City _____

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Well # KNOB CREEK N-3HM (L027469) Final Formations API# 47-051-02280				
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	2,094
Berea	2,095	2,094	2,357	2,356
Sand/Shale	2,357	2,356	2,359	2,358
Gordon	2,359	2,358	2,437	2,436
50F	2,437	2,436	2,508	2,507
Sand/Shale	2,508	2,507	3,008	3,007
Speechley	3,008	3,007	4,852	4,826
Alexander	4,852	4,826	5,302	5,231
Elks	5,302	5,231	6,120	5,881
Sonyea	6,120	5,881	6,221	5,960
Middlesex	6,221	5,960	6,257	5,987
Genesee	6,257	5,987	6,317	6,029
Geneseo	6,317	6,029	6,365	6,060
Tully	6,365	6,060	6,418	6,091
Hamilton	6,418	6,091	6,606	6,170
Marcellus	6,606	6,170	19,247	6,201

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**Knob Creek N Lease
Well 3HM
EQT Production Co.**

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-6-12	CONSOLIDATION COAL COMPANY, MURRAY ENERGY	2.222
9-6-31	CONSOLIDATION COAL COMPANY, MURRAY ENERGY	10.00
9-10-9	J. F. CROW EST., ET AL	17 AC. 14 P.
9-10-16	WILLIAM D. MCCONNELL	0.859
9-11-1	GERALD P. PADI GW	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
9-13-12.1	ROBERT T. & BARBARA A. ANKROM	2.632
9-13-13.1	THOMAS JOHN FOX	0.827
9-13-14	MARGARET K. FOX - LIFE	3.00
9-13-16	IVAN H. & MARGARET A. RICHMOND	21.354
9-14-1.2	KENNETH N. & TERESA A. SMERTNECK	1.02
9-14-1.3	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
9-14-31	WILFORD F. NELSON, JR., ET UX	0.954
9-14-32	TWILA C. COFFIELD	0.583
9-14-32.1	TWILA C. COFFIELD	0.184

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. 464,858.15 E. 1,629,653.80
NAD'83 GEO. LAT-(N) 39.770031 LONG-(W) 80.705531
NAD'83 UTM (M) N. 4,402,274.92 E. 525,219.95

LANDING POINT

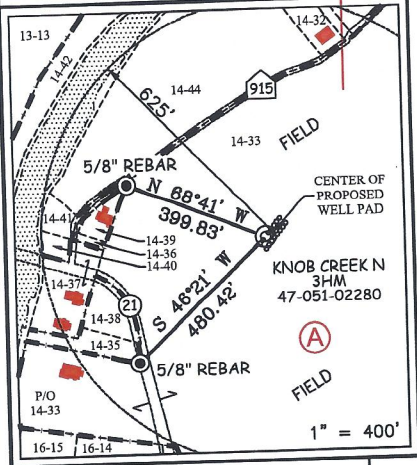
NAD'83 S.P.C.(FT) N. 466,297.7 E. 1,629,055.9
NAD'83 GEO. LAT-(N) 39.773961 LONG-(W) 80.707726
NAD'83 UTM (M) N. 4,402,710.4 E. 525,030.5

BOTTOM HOLE

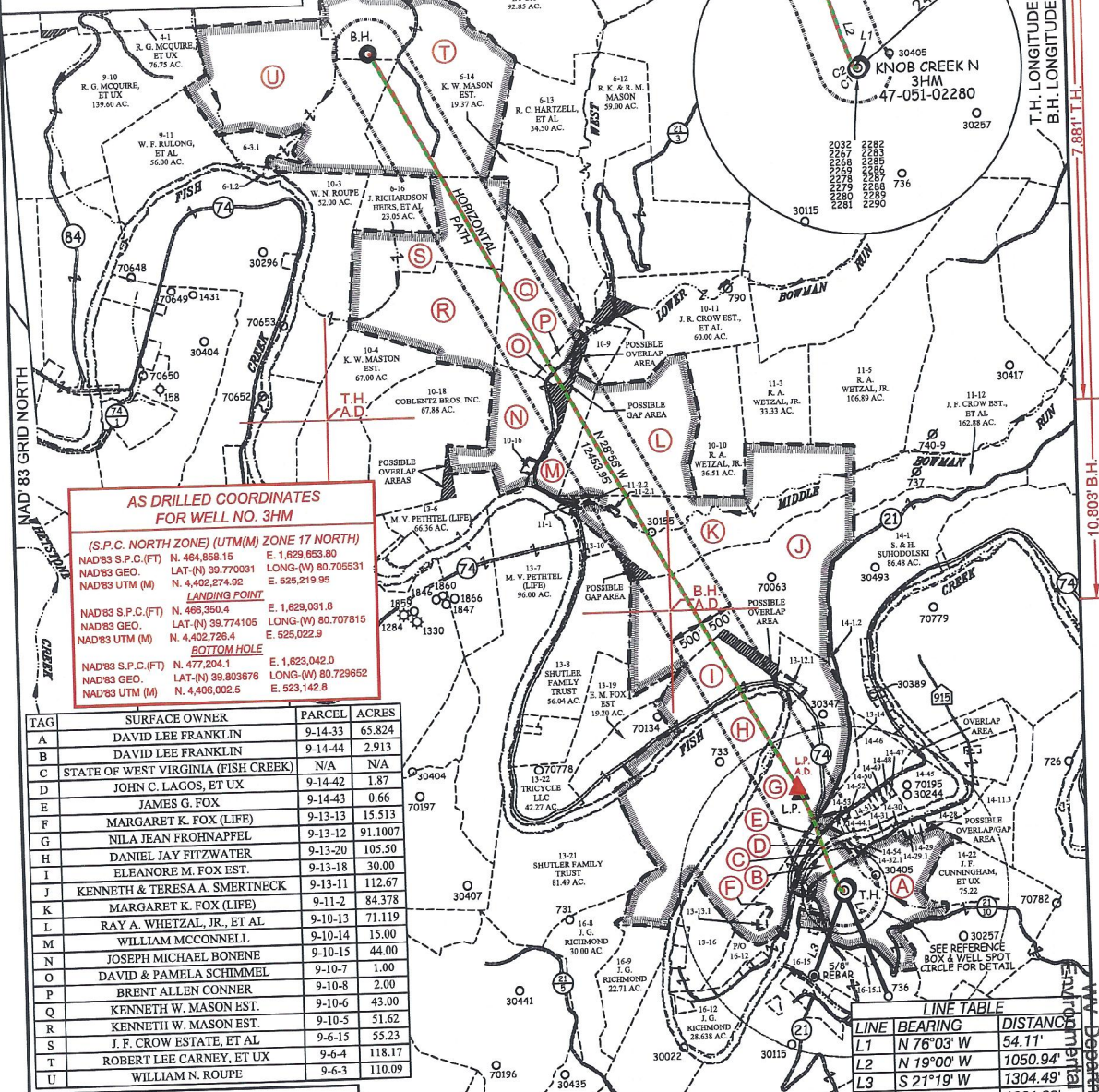
NAD'83 S.P.C.(FT) N. 477,197.0 E. 1,623,030.6
NAD'83 GEO. LAT-(N) 39.803656 LONG-(W) 80.729692
NAD'83 UTM (M) N. 4,406,000.3 E. 523,139.4

MAP/PARCEL	ADJOINING SURFACE OWNER LIST - CONTINUED	ACRES
9-14-35	PAUL G. FOX	0.338
9-14-36	MARGARET FOX - LIFE	1600 SQ. FT.
9-14-37	MARGARET FOX - LIFE	LOT
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
9-14-42	DAVID LEE FRANKLIN	2.913
9-14-44	GEORGE R. TAYLOR, ET UX	4.423
9-14-44.1	GEORGE R. TAYLOR, ET UX	10.98
9-14-45	MARGARET K. FOX - LIFE	18.888
9-14-46	MICHAEL L. & CHERYL J. ACREE	0.355
9-14-47	MICHAEL L. & CHERYL J. ACREE	0.473
9-14-48	MICHAEL L. & CHERYL J. ACREE	0.118
9-14-49	MICHAEL L. & CHERYL J. ACREE	0.707
9-14-50	RONALD MARSH	1.621
9-14-51	GEORGE R. TAYLOR, ET UX	0.439
9-14-52	JAMES E. PEELMAN	0.555
9-14-53	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



Knob Creek N Lease Well 3HM
EQT Production Co.



AS DRILLED COORDINATES FOR WELL NO. 3HM

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

NAD83 S.P.C.(FT)	N. 464,858.15	E. 1,629,653.80
NAD83 GEO.	LAT-(N) 39.770031	LONG-(W) 80.705531
NAD83 UTM (M)	N. 4,402,274.92	E. 525,219.95

LANDING POINT

NAD83 S.P.C.(FT)	N. 466,350.4	E. 1,629,031.8
NAD83 GEO.	LAT-(N) 39.774105	LONG-(W) 80.707715
NAD83 UTM (M)	N. 4,402,728.4	E. 525,022.9

BOTTOM HOLE

NAD83 S.P.C.(FT)	N. 477,204.1	E. 1,623,042.0
NAD83 GEO.	LAT-(N) 39.803676	LONG-(W) 80.729662
NAD83 UTM (M)	N. 4,406,002.5	E. 523,142.8

TAG	SURFACE OWNER	PARCEL	ACRES
A	DAVID LEE FRANKLIN	9-14-33	65.824
B	DAVID LEE FRANKLIN	9-14-44	2.913
C	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
D	JOHN C. LAGOS, ET UX	9-14-42	1.87
E	JAMES G. FOX	9-14-43	0.66
F	MARGARET K. FOX (LIFE)	9-13-13	15.513
G	NILA JEAN FROHNAPFEL	9-13-12	91.1007
H	DANIEL JAY FITZWATER	9-13-20	105.50
I	ELEANORE M. FOX EST.	9-13-18	30.00
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	WILLIAM MCCONNELL	9-10-14	15.00
N	JOSEPH MICHAEL BONENE	9-10-15	44.00
O	DAVID & PAMELA SCHIMMEL	9-10-7	1.00
P	BRENT ALLEN CONNER	9-10-8	2.00
Q	KENNETH W. MASON EST.	9-10-6	43.00
R	KENNETH W. MASON EST.	9-10-5	51.62
S	J. F. CROW ESTATE, ET AL	9-6-15	55.23
T	ROBERT LEE CARNEY, ET UX	9-6-4	118.17
U	WILLIAM N. ROUPE	9-6-3	110.09

SLS
 FROM THE GROUND UP

12 Vanborn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.8654
 1412 Kanawha Boulevard, East | Charleston, WV 26301 | 304.346.5952
 25-4 East Beckley Bypass | Beckley, WV 25801 | 304.255.6206

slswv.com

LEGEND

AS DRILLED ————
 PROPOSED - - - - -

LINE TABLE

LINE	BEARING	DISTANCE
L1	N 76°03' W	54.11'
L2	N 19°00' W	1050.94'
L3	S 21°19' W	1304.49'
L4	S 21°23' E	1661.39'

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	14.77'	20.25'	N 49°27' W	14.44'
C2	24.20'	176.30'	N 22°21' W	24.18'
C3	441.23'	2964.10'	N 24°31' W	440.83'

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

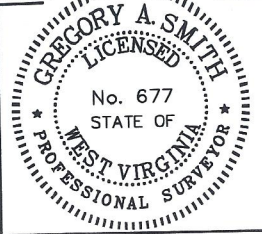
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NAD83 S.P.C.(FT)	N. 477,197.0	E. 1,623,030.6
NAD83 GEO.	LAT-(N) 39.803656	LONG-(W) 80.729692
NAD83 UTM (M)	N. 4,406,000.3	E. 523,139.4



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

P.S. 677 *Gregory A. Smith*

LEGEND

- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- TAX MAP - PARCEL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE WW-6A1)

SCALE 1" = 2000'

FILE NO. 8789P3HM AS-DRILLED.dwg

KNOB CREEK N-3HM-REV2

DATE JULY 27, 2018

REVISED NOVEMBER 27, 2023

OPERATORS WELL NO. KNOB CREEK N-3HM

API WELL NO. 47-051-02280

NO. STATE COUNTY PERMIT

WELL OPERATOR EQT PRODUCTION COMPANY

ADDRESS 400 WOODCLIFF DRIVE
 CANONSBURG, PA 15317

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

DESIGNATED AGENT JOSEPH C. MALLOW

ADDRESS 427 MIDSTAR DRIVE
 CLARKSBURG, WV 26301

COUNTY NAME PERMIT

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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	06/25/2024	19134	18984	48	Marcellus
3	06/26/2024	18955	18804	48	Marcellus
4	06/27/2024	18776	18625	48	Marcellus
5	06/27/2024	18596	18446	48	Marcellus
6	06/28/2024	18417	18266	48	Marcellus
7	06/28/2024	18237	18087	48	Marcellus
8	06/29/2024	18058	17907	48	Marcellus
9	06/29/2024	17879	17728	48	Marcellus
10	06/30/2024	17699	17549	48	Marcellus
11	07/02/2024	17520	17369	48	Marcellus
12	07/02/2024	17340	17190	48	Marcellus
13	07/03/2024	17161	17010	48	Marcellus
14	07/03/2024	16982	16831	48	Marcellus
15	07/04/2024	16802	16652	48	Marcellus
16	07/04/2024	16623	16472	48	Marcellus
17	07/05/2024	16443	16293	48	Marcellus
18	07/05/2024	16264	16114	48	Marcellus
19	07/05/2024	16085	15934	48	Marcellus
20	07/06/2024	15905	15755	48	Marcellus
21	07/06/2024	15726	15575	48	Marcellus
22	07/07/2024	15546	15396	48	Marcellus
23	07/07/2024	15367	15217	48	Marcellus
24	07/07/2024	15188	15037	48	Marcellus
25	07/07/2024	15008	14858	48	Marcellus
26	07/08/2024	14829	14678	48	Marcellus
27	07/08/2024	14649	14499	48	Marcellus
28	07/08/2024	14470	14320	48	Marcellus
29	07/08/2024	14291	14140	48	Marcellus
30	07/09/2024	14111	13961	48	Marcellus
31	07/09/2024	13932	13781	48	Marcellus
32	07/09/2024	13752	13602	48	Marcellus
33	07/09/2024	13573	13423	48	Marcellus
34	07/10/2024	13394	13243	48	Marcellus
35	07/10/2024	13214	13064	48	Marcellus
36	07/10/2024	13035	12884	48	Marcellus
37	07/10/2024	12855	12705	48	Marcellus
38	07/11/2024	12676	12526	48	Marcellus
39	07/11/2024	12497	12346	48	Marcellus
40	07/11/2024	12317	12167	48	Marcellus
41	07/11/2024	12138	11987	48	Marcellus
42	07/12/2024	11958	11808	48	Marcellus

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43	07/12/2024	11779	11629	48	Marcellus
44	07/12/2024	11600	11449	48	Marcellus
45	07/12/2024	11420	11270	48	Marcellus
46	07/13/2024	11241	11090	48	Marcellus
47	07/13/2024	11061	10911	48	Marcellus
48	07/13/2024	10882	10732	48	Marcellus
49	07/13/2024	10703	10552	48	Marcellus
50	07/14/2024	10523	10373	48	Marcellus
51	07/14/2024	10344	10193	48	Marcellus
52	07/14/2024	10164	10014	48	Marcellus
53	07/14/2024	9985	9835	48	Marcellus
54	07/15/2024	9806	9655	48	Marcellus
55	07/15/2024	9626	9476	48	Marcellus
56	07/15/2024	9447	9296	48	Marcellus
57	07/15/2024	9267	9117	48	Marcellus
58	07/15/2024	9088	8938	48	Marcellus
59	07/15/2024	8909	8758	48	Marcellus
60	07/16/2024	8729	8579	48	Marcellus
61	07/16/2024	8550	8399	48	Marcellus
62	07/16/2024	8370	8220	48	Marcellus
63	07/16/2024	8191	8041	48	Marcellus
64	07/16/2024	8012	7861	48	Marcellus
65	07/17/2024	7832	7682	48	Marcellus
66	07/17/2024	7653	7502	48	Marcellus
67	07/17/2024	7473	7323	48	Marcellus
68	07/19/2024	7294	7144	48	Marcellus
69	07/19/2024	7115	6964	48	Marcellus
70	07/19/2024	6935	6785	48	Marcellus
71	07/19/2024	6756	6635	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	06/26/2024	92	8696	0	4317	250060	6546.05	
2	06/26/2024	98	8796	8849	4727	451509	9188.17	
3	06/27/2024	100	8759	0	5161	450200	9274.14	
4	06/27/2024	99	8648	8607	5126	451688	9170.71	
5	06/28/2024	100	8740	8453	4875	450798	9083.90	
6	06/29/2024	99	8631	0	5521	453413	9082.81	
7	06/29/2024	100	8621	8485	5047	450173	9121.29	
8	06/30/2024	100	8686	0	5218	452940	9096.43	
9	06/30/2024	93	8323	8696	5110	444114	9160.24	
10	07/02/2024	99	8854	8571	4847	453020	8981.17	
11	07/03/2024	100	8655	8844	5051	453869	9264.36	
12	07/03/2024	100	8663	8522	5012	451552	9125.19	
13	07/03/2024	99	8751	8518	4857	451630	9132.45	
14	07/04/2024	100	8420	8635	5144	450620	9098.07	
15	07/04/2024	99	8618	8741	4700	451417	9084.71	
16	07/05/2024	100	8185	8815	5305	450131	9036.81	
17	07/05/2024	100	8219	8448	5085	450136	9054.64	
18	07/06/2024	100	8146	8905	5150	449599	9003.76	
19	07/06/2024	98	8118	8808	5332	436826	9249.33	
20	07/06/2024	100	8375	8516	5080	451836	9067.33	
21	07/07/2024	100	7840	8087	5244	449549	8968.88	
22	07/07/2024	100	8035	8684	5064	449169	9025.07	
23	07/07/2024	100	8083	8651	5074	450176	8981.17	
24	07/08/2024	100	8032	8754	5016	450532	9044.83	
25	07/08/2024	100	7728	8593	4971	450256	9053.38	
26	07/08/2024	100	8021	8734	5085	450011	9037.24	
27	07/08/2024	100	7880	8706	4995	450816	8995.93	
28	07/09/2024	100	7810	0	5186	450503	9043.29	
29	07/09/2024	100	7900	8589	4934	450537	8890.55	
30	07/09/2024	100	8268	0	5173	405369	9119.76	
31	07/09/2024	101	7897	0	5017	429458	8961.00	
32	07/09/2024	101	7733	8703	5090	450610	8983.10	
33	07/10/2024	100	7592	8126	4953	449994	8840.31	
34	07/10/2024	100	7583	0	5027	438000	8891.74	
35	07/10/2024	100	7439	0	5124	415240	8901.50	
36	07/11/2024	101	7673	8823	4965	450778	8985.57	
37	07/11/2024	100	7604	8869	5155	450169	9010.02	
38	07/11/2024	95	7697	0	5055	457888	8909.86	
39	07/11/2024	100	8072	0	8120	450036	8865.19	
40	07/12/2024	99	8275	9067	5028	450351	8936.57	
41	07/12/2024	98	8482	8989	5194	450377	8904.69	

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02/07/2025

42	07/12/2024	97	7713	0	5712	443647	8784.05
43	07/12/2024	98	8387	8864	5076	450251	9041.95
44	07/13/2024	98	7893	8993	5214	450856	8903.19
45	07/13/2024	39	7739	8625	7801	421176	8307.26
46	07/13/2024	94	7692	0	5165	439000	8563.90
47	07/13/2024	101	7270	0	5218	454000	8848.62
48	07/13/2024	101	7324	8490	5061	450277	8827.10
49	07/14/2024	101	7131	8686	4958	450472	8888.17
50	07/14/2024	91	6977	0	5192	445000	8695.10
51	07/14/2024	92	6812	0	5128	450355	8873.55
52	07/15/2024	92	6922	8047	5026	447593	8797.93
53	07/15/2024	89	6688	8113	5178	450590	8871.10
54	07/15/2024	90	7108	0	5487	448005	8688.62
55	07/15/2024	90	7048	0	5149	450215	8763.79
56	07/15/2024	90	6923	7998	4980	450329	8873.29
57	07/16/2024	90	6731	8270	4995	448869	8801.36
58	07/16/2024	90	6834	8530	5131	450246	8832.93
59	07/16/2024	90	6597	8442	5132	450762	8828.26
60	07/16/2024	90	6544	0	5022	452718	8727.38
61	07/16/2024	90	6662	0	5106	433180	8660.60
62	07/16/2024	90	6576	8461	5088	450132	8680.64
63	07/17/2024	90	6770	8651	4925	450367	8657.24
64	07/17/2024	90	6682	8328	5212	450162	8737.60
65	07/17/2024	90	6572	8379	5210	448386	8701.33
66	07/17/2024	90	6472	0	5194	441090	8662.24
67	07/17/2024	90	6400	0	5045	450150	8730.95
68	07/19/2024	93	6524	0	4976	447170	8819.05
69	07/19/2024	101	6841	0	4906	452100	8731.33
70	07/20/2024	100	7039	8208	5194	450129	8690.17
71	07/20/2024	99	6851	0	4762	377113	7411.71

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02/07/2025

Hydraulic Fracturing Fluid Product Component Information Disclosure



Job Start Date:	06/25/2024
Job End Date:	07/20/2024
State:	West Virginia
County:	Marshall
API Number:	47-051-02280-00-00
Operator Name:	EQT Production
Well Name and Number:	Knob Creek N-3HM
Latitude:	39.770033
Longitude:	-80.705533
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6230
Total Base Water Volume (gal)*:	26442008.04
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	87.34312	None
Sand (Proppant)	EQT	Proppant					
			Silica Substrate	14808-60-7	100.00000	12.47246	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ACRYLAMIDE-CHLORIDE SALT OF TRIMETHYLAMMONIO-ETHYL ACRYLATE COPOLYMER	69418-26-4	40.00000	0.01940	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ALKANES, C12-26-BRANCHED AND LINEAR	90622-53-0	40.00000	0.01940	None
Clearal 268	ChemStream	Biocide					
			Water	7732-18-5	80.00000	0.00873	None

02/07/2025

StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Water	7732-18-5	15.00000	0.00273	None
HCR-7000 WL	Fluid USA, Inc.	Synthetic Acid					
			FLUID-Acid-00001	Proprietary	20.00000	0.00161	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	0.00040	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					
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00001	None
Clearal 268	ChemStream	Biocide					
			Didecyl dimethyl ammonium chloride	7173-51-5	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 N LEASE
WELL 3HM
EQT PRODUCTION CO.**

10,924' T.H. 5,989' B.H.

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

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

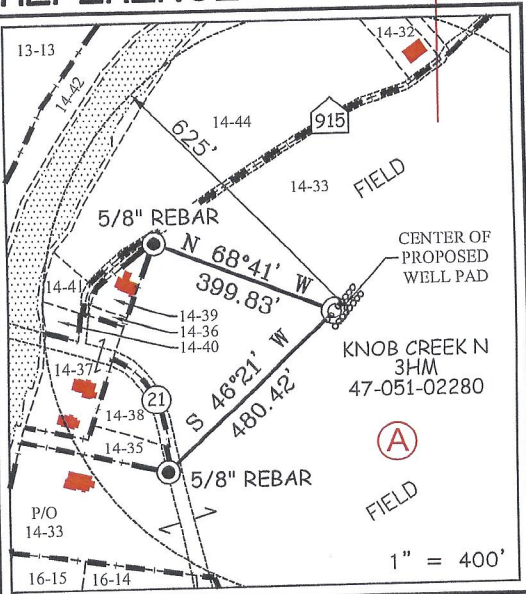
NAD'83 S.P.C.(FT)	N. 464,858.15	E. 1,629,653.80
NAD'83 GEO.	LAT-(N) 39.770031	LONG-(W) 80.705531
NAD'83 UTM (M)	N. 4,402,274.92	E. 525,219.95
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 466,297.7	E. 1,629,055.9
NAD'83 GEO.	LAT-(N) 39.773961	LONG-(W) 80.707726
NAD'83 UTM (M)	N. 4,402,710.4	E. 525,030.5
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 477,197.0	E. 1,623,030.6
NAD'83 GEO.	LAT-(N) 39.803656	LONG-(W) 80.729692
NAD'83 UTM (M)	N. 4,406,000.3	E. 523,139.4

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

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
9-6-12	CONSOLIDATION COAL COMPANY, MURRAY ENERGY	2.222
9-6-3-1	CONSOLIDATION COAL COMPANY, MURRAY ENERGY	10.00
9-10-9	J. F. CROW EST., ET AL.	17 AC. 14 P.
9-10-16	WILLIAM D. MCCONNELL	0.859
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
9-13-12.1	ROBERT T. & BARBARA A. ANKROM	2.632
9-13-13.1	THOMAS JOHN FOX	0.827
9-13-14	MARGARET K. FOX - LIFE	3.00
9-13-16	IVAN H. & MARGARET A. RICHMOND	21.354
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
9-14-31	WILFORD F. NELSON, JR., ET UX	0.954
9-14-32	TWILA C. COFFIELD	0.583
9-14-32.1	TWILA C. COFFIELD	0.184

MAP/PARCEL	ADJOINING SURFACE OWNER LIST - CONTINUED	ACRES
9-14-35	PAUL G. FOX	0.338
9-14-36	MARGARET FOX - LIFE	1600 SQ. FT.
9-14-37	MARGARET FOX - LIFE	LOT
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
9-14-42	DAVID LEE FRANKLIN	2.913
9-14-44	DAVID LEE FRANKLIN	4.423
9-14-44.1	GEORGE R. TAYLOR, ET UX	10.98
9-14-45	GEORGE R. TAYLOR, ET UX	18.888
9-14-46	MARGARET K. FOX - LIFE	0.355
9-14-47	MICHAEL L. & CHERYL J. ACREE	0.473
9-14-48	MICHAEL L. & CHERYL J. ACREE	0.118
9-14-49	MICHAEL L. & CHERYL J. ACREE	0.707
9-14-50	RONALD MARSH	1.621
9-14-51	GEORGE R. TAYLOR, ET UX	0.439
9-14-52	JAMES E. PEBELMAN	0.555
9-14-53	JAMES E. PEBELMAN	1.649
9-14-54	RICHARD L. HARVETH, ET UX	0.762
9-16-14	LYNN CAMP METHODIST CHURCH	52.02
9-16-15	RONALD R. YOUNG, ET UX - LIFE	1.98
9-16-15.1	ERIC J. YOUNG	

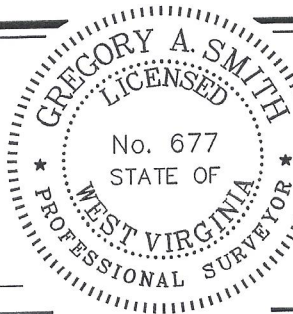
REFERENCES



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3982
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slaw.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. *Gregory A. Smith*
677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE JULY 27, 2018

REVISED NOVEMBER 27, 2023

OPERATORS WELL NO. KNOB CREEK N-3HM

API WELL NO. 47 - 051 - 02280
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8789P3HM AS-DRILLED.dwg
KNOB CREEK N-3HM-REV2

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 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

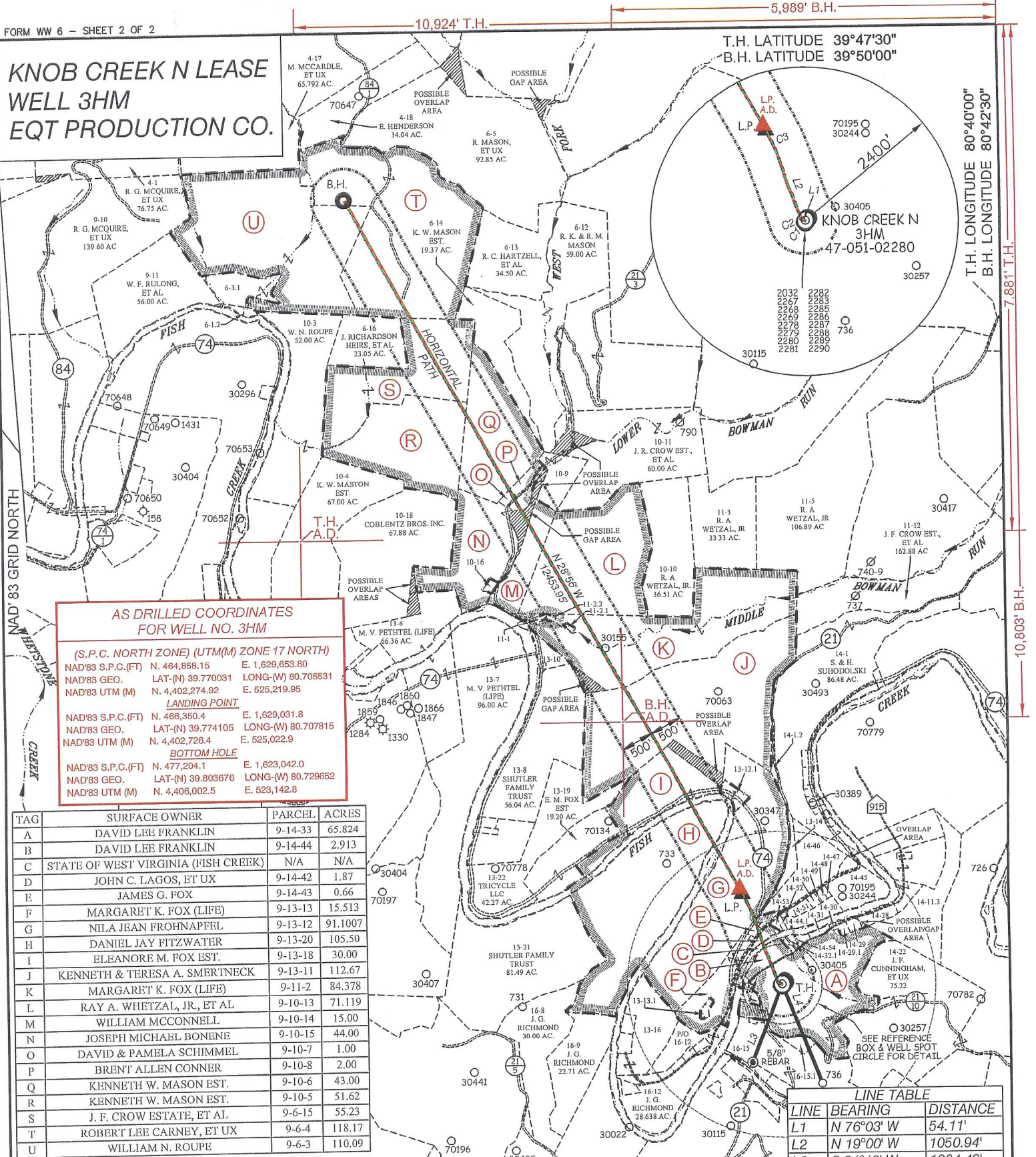
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
ESTIMATED DEPTH TVD: 6,352' / TMD: 19,593'

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 3HM
EQT Production Co.**



AS DRILLED COORDINATES FOR WELL NO. 3HM

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

NAD'83 S.P.C.(FT)	N. 464,858.15	E. 1,629,653.80
NAD'83 GEO.	LAT-(N) 39.770031	LONG-(W) 80.705531
NAD'83 UTM (M)	N. 4,402,274.92	E. 525,219.95

LANDING POINT

NAD'83 S.P.C.(FT)	N. 466,350.4	E. 1,629,031.8
NAD'83 GEO.	LAT-(N) 39.774105	LONG-(W) 80.707815
NAD'83 UTM (M)	N. 4,402,726.4	E. 525,022.9

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 477,204.1	E. 1,623,042.0
NAD'83 GEO.	LAT-(N) 39.803676	LONG-(W) 80.729652
NAD'83 UTM (M)	N. 4,406,002.5	E. 523,142.8

TAG	SURFACE OWNER	PARCEL	ACRES
A	DAVID LEE FRANKLIN	9-14-33	65.824
B	DAVID LEE FRANKLIN	9-14-44	2.913
C	STATE OF WEST VIRGINIA (FISH CREEK)	N/A	N/A
D	JOHN C. LAGOS, ET UX	9-14-42	1.87
E	JAMES G. FOX	9-14-43	0.66
F	MARGARET K. FOX (LIFE)	9-13-13	15.513
G	NILA JEAN FROHNAPFEL	9-13-12	91.1007
H	DANIEL JAY FITZWATER	9-13-20	105.50
I	ELEANORE M. FOX BST.	9-13-18	30.00
J	KENNETH & TERESA A. SMERINECK	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	WILLIAM MCCONNELL	9-10-14	15.00
N	JOSEPH MICHAEL BONENE	9-10-15	44.00
O	DAVID & PAMELA SCHIMMEL	9-10-7	1.00
P	BRENT ALLEN CONNER	9-10-8	2.00
Q	KENNETH W. MASON EST.	9-10-6	43.00
R	KENNETH W. MASON EST.	9-10-5	51.62
S	J. F. CROW ESTATE, ET AL	9-6-15	55.23
T	ROBERT LEE CARNEY, ET UX	9-6-4	118.17
U	WILLIAM N. ROUPE	9-6-3	110.09

LINE TABLE

LINE	BEARING	DISTANCE
L1	N 76°03' W	54.11'
L2	N 19°00' W	1050.94'
L3	S 21°19' W	1304.49'
L4	S 21°23' E	1661.39'

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	14.77'	20.25'	N 49°27' W	14.44'
C2	24.20'	176.30'	N 22°21' W	24.18'
C3	441.23'	2964.10'	N 24°31' W	440.83'

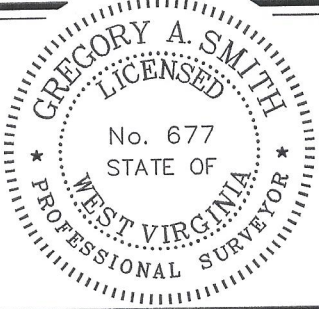


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 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 slsw.com

LEGEND

AS DRILLED ——— (Red solid line)

PROPOSED - - - - - (Green dashed line)



(+) 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. 8789P3HM AS-DRILLED.dwg
 KNOB CREEK N-3HM-REV2

DATE JULY 27, 2018
 REVISED NOVEMBER 27, 2023

OPERATORS WELL NO. KNOB CREEK N-3HM
 API WELL 47-051-02280
 NO. STATE COUNTY PERMIT

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

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

COUNTY NAME
 PERMIT