

Well Operator's Report of Well Work



Well Number: Breckenridge S-21HU

API: 47 - 051 - 02400

Submission:  Initial  Amended

Notes:

RECEIVED  
Office of Oil and Gas  
JAN 29 2024  
WV Department of  
Environmental Protection

02/23/2024



API 47- 051 - 02400 Farm name CNX Land, LLC Well number Breckenridge S-21HU

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	38"	30"	120'	NEW	118.65#	N/A	Y
Surface	26"	20"	1,168'	NEW	106.5#	N/A	Y
Coal	26"	20"	1,168'	NEW	106.5#	N/A	Y
Intermediate 1	17 1/2"	13 3/8"	3,030'	NEW	54.5#	N/A	Y
Intermediate 2	12 1/4"	9 5/8"	10,075'	NEW	47#	N/A	Y
Intermediate 3							
Production	8 1/2"	5 1/2"	23,164'	NEW	23#	N/A	Y
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	A	530	15.6	1.21	641	0	8
Surface	A	Lead: 1319 Tail: 571	Lead: 15.0 Tail: 15.6	Lead: 1.29 Tail: 1.18	Lead: 1701 Tail: 673	0	8
Coal	A	Lead: 1319 Tail: 571	Lead: 15.0 Tail: 15.6	Lead: 1.29 Tail: 1.18	Lead: 1701 Tail: 673	0	8
Intermediate 1	A	2360	15.6	1.18	2784	0	8
Intermediate 2	A	4105	14.5	1.34	5500	0	8
Intermediate 3							
Production	A	5700	16.5	1.08	6156	0	8
Tubing							

Drillers TD (ft) 23,199' Loggers TD (ft) N/A  
 Deepest formation penetrated Utica Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 11,098'

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 3 centralizers on surface casing at equal distance.  
Intermediate - 1 centralizer every other joint.  
 Production - one centralizer every other joint in lateral, one centralizer every joint through curve, one centralizer every other joint to surface.

RECEIVED  
Office of Oil and Gas

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS JAN 29 2024

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS WV Department of Environmental Protection

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_





Well # BRECKENRIDGE S-21HU (L027201) Final Formations API# 47-051-02400				
Formation Name	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)	Drill Btm MD (ftKB)	Drill Btm (TVD) (ftKB)
Sand/Shale	1	1	985	985
Sewickley Coal	985	985	1,075	1,075
Pittsburgh Coal	1,075	1,075	1,081	1,081
Sand/Shale	1,081	1,081	2,005	2,005
Maxton	2,005	2,005	2,207	2,207
Big Lime	2,207	2,207	2,328	2,328
Big Injun	2,328	2,328	2,619	2,618
Weir	2,619	2,618	2,821	2,820
Berea	2,821	2,820	3,077	3,076
Gordon	3,077	3,076	3,176	3,175
Fifty Foot	3,176	3,175	3,743	3,738
Spechley	3,743	3,738	5,236	5,214
Benson	5,236	5,214	5,634	5,607
Alexander	5,634	5,607	6,264	6,231
Rhinestreet	6,264	6,231	6,752	6,715
Middlesex	6,752	6,715	6,821	6,783
Geneseo	6,821	6,783	6,855	6,816
Tully	6,855	6,816	6,882	6,843
Hamilton	6,882	6,843	6,978	6,938
Marcellus	6,978	6,938	7,028	6,988
Onondaga	7,028	6,988	7,244	7,202
Oriskany	7,244	7,202	7,380	7,337
Helderberg	7,380	7,337	7,735	7,688
Salina	7,735	7,688	8,863	8,805
Lockport	8,863	8,805	9,245	9,182
Rose Hill	9,245	9,182	9,555	9,489
Packer Shell	9,555	9,489	9,801	9,733
Clinton/Tuscarora	9,801	9,733	9,908	9,839
Juniata/Queenston	9,908	9,839	10,776	10,699
Reedsville	10,776	10,699	11,888	11,733
Utica	11,888	11,733	23,199	12,149

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Environmental Protection

02/23/2024



**BRECKENRIDGE S LEASE  
UTICA UNIT - 342.88 AC±  
WELL 21HU  
EQT PRODUCTION CO.**

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

T.H. A.D.  
A.D.


TAG	SURFACE OWNER	PARCEL	ACRES
A	CONSOL MINING COMPANY LLC	3-19-76	53.25
B	CONSOL MINING COMPANY LLC	3-19-75	47.40
C	CONSOL MINING COMPANY LLC	3-18-1	30.00
D	KEVIN R. EVANS	3-14-18	101.8
E	KEVIN R. EVANS	3-18-2	63.89
F	KEVIN R. & SHELLY JO EVANS	3-18-7	3.134
G	KEVIN R. EVANS	3-18-8	45.579
H	KEVIN R. & SHELLY JO EVANS	3-18-8.2	2.302
I	DAVID L. & ARIANNE R. ROBINSON	3-18-3.3	16.884
J	OLIVIA SUZANNE HUBBS	3-18-38	0.433
K	AEP WEST VIRGINIA TRANSMISSION COMPANY INC.	3-18-6.1	10.175
L	MARY J. BURRIS (LIFE)	3-18-6	36.33
M	MOLLY KAY HUBBS COLLINS, ET AL	3-18-5	25.372
N	MOLLY KAY HUBBS COLLINS, ET AL	3-18-13	18.014
O	MOLLY KAY HUBBS COLLINS, ET AL	3-18-14	21.52
P	OLIVIA SUZANNE HUBBS	7-1-13	120.937
Q	MOLLY KAY HUBBS COLLINS, ET AL	7-2-1	65.70
R	MOLLY KAY HUBBS COLLINS, ET AL	7-1-14	53.67
S	WILLIAM E. & NANCY L. PARSONS	7-2-2	56.08
T	RICKIE GENE FRYE	7-2-3.1	37.8578
U	RICKIE GENE FRYE, ET UX	7-2-3.2	0.9922
V	BARBARA & RICKIE FRYE	7-2-3	11.24
W	KENNETH W. STEELE REV. LIVING TRUST	7-2-4	58.08
X	KENNETH W. STEELE REV. LIVING TRUST	7-2-4.1	1.00
Y	CONSOL MINING COMPANY LLC	7-2-8	3.82
Z	DAVID L. FRYE	7-2-4.2	1.25
AA	CONSOL MINING COMPANY LLC	7-2-7	12.825
BB	DAVID L. FRYE & MICHAEL G. SCHLIEPER	7-2-7.1	2.665
CC	DAVID L. FRYE & MICHAEL G. SCHLIEPER	7-2-6	0.54
DD	DAVID L. FRYE & MICHAEL G. SCHLIEPER	7-2-5.1	2.335
EE	ANTHONY SKRYPEK	7-2-5	20.915
FF	JEAN JAMISON	7-7-9.1	97.896


(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)  
 NAD'83 S.P.C.(FT) N. 486,501.62 E. 1,652,133.81  
 NAD'83 GEO. LAT-(N) 39.830246 LONG-(W) 80.6226527  
 NAD'83 UTM (M) N. 4,408,983.19 E. 531,958.42  
**LANDING POINT/LTP**  
 NAD'83 S.P.C.(FT) N. 486,862.2 E. 1,653,347.3  
 NAD'83 GEO. LAT-(N) 39.831278 LONG-(W) 80.622222  
 NAD'83 UTM (M) N. 4,409,099.2 E. 532,326.3  
**BOTTOM HOLE**  
 NAD'83 S.P.C.(FT) N. 477,525.1 E. 1,658,604.3  
 NAD'83 GEO. LAT-(N) 39.805825 LONG-(W) 80.603096  
 NAD'83 UTM (M) N. 4,406,281.4 E. 533,975.4

T.H. LONGITUDE 80°37'30"  
B.H. LONGITUDE 80°35'00"  
1,125' T.H. A.D.  
10,021' B.H. A.D.

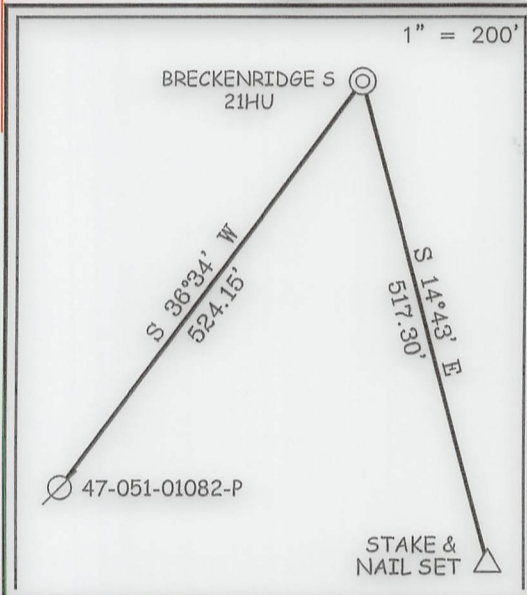
MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
3-18-8.1	DANIEL LILLEY, ET UX	1.039
3-18-12	CHARLES N. MATTHEWS JR, ET UX	1.831
3-18-20	JESSE PARSONS EST.	2.02
3-19-78	CONSOL MINING COMPANY	30.927
7-2-9	BARBARA & RICKIE FRYE	73' x 200'
7-2-10.1	BRENNAN L. & CARRIE A. PAITH	8.391
7-2-11	WILLIAM E. PARTONS, ET UX	19.83
7-7-9	WILLARD JUNIOR EVANS & ROSE MARY EVANS - LIFE	2.214

**LEGEND**

AS DRILLED 

PROPOSED 

**REFERENCES**



**NOTES ON SURVEY**

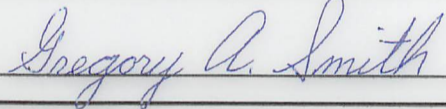
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1"=2000'
- PROPOSED LATERAL OR TOP HOLE OF PROPOSED BRECKENRIDGE S-21HU IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF PROPOSED OR EXISTING WELLS:  
 PROPOSED BRECKENRIDGE S-17HU,  
 PROPOSED BRECKENRIDGE S-18HU,  
 PROPOSED BRECKENRIDGE S-19HU,  
 PROPOSED BRECKENRIDGE S-20HU,  
 PROPOSED BRECKENRIDGE S-22HU,  
 PROPOSED BRECKENRIDGE S-23HU.
- WELL PLAT UPDATED TO SHOW AS-DRILLED PATH.
- AS-DRILLED INFORMATION 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  
 slswv.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 

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE JANUARY 23, 20 24  
 REVISED \_\_\_\_\_  
 OPERATORS WELL NO. BRECKENRIDGE S-21HU  
 API WELL NO. 47 - 051 - 02400  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 9026P21HUAD.dwg  
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'  
 BRECKENRIDGE S-21HU-REV6

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

WELL TYPE: OIL \_\_\_ GAS X INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ IF "GAS" PRODUCTION X STORAGE \_\_\_ DEEP X SHALLOW \_\_\_

LOCATION: ELEVATION 1,370.61' WATERSHED GRAVE CREEK (HUC 10) & LAUREL RUN  
 DISTRICT CAMERON COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER CONSOL MINING COMPANY LLC ACREAGE 53.25±  
 ROYALTY OWNER HASAN'S VENTURES, ET AL ACREAGE 23.25

PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_ OTHER \_\_\_  
 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION POINT PLEASANT  
 ESTIMATED DEPTH TVD: 12,117' / TMD: 23,131'

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

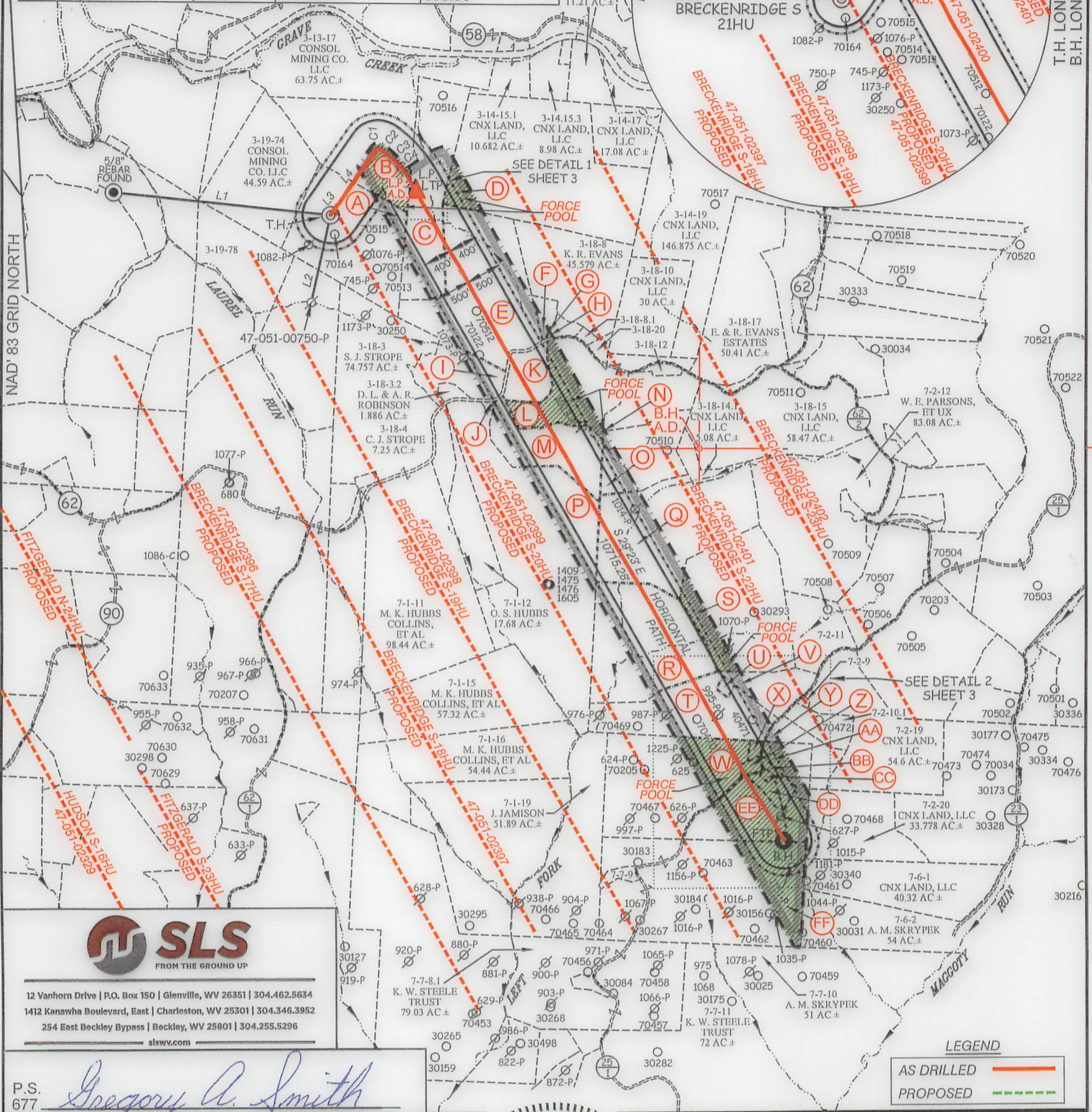
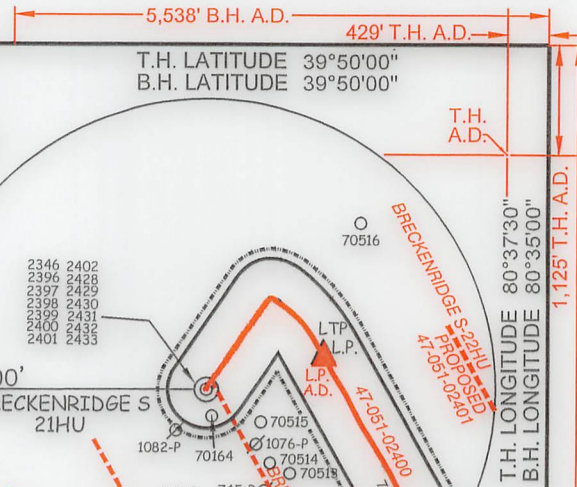
COUNTY NAME PERMIT



**BRECKENRIDGE S LEASE  
UTICA UNIT - 342.88 AC±  
WELL 21HU  
EQT PRODUCTION CO.**

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 84°18' W	3136.53'
L2	S 12°24' W	1274.67'
L3	N 37°54' E	53.73'
L4	N 34°24' E	1090.60'

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	29.69'	21.85'	N 64°14' E	27.46'
C2	93.73'	204.86'	S 62°02' E	92.91'
C3	325.70'	1805.64'	S 46°11' E	325.26'
C4	394.39'	2080.50'	S 34°27' E	393.80'



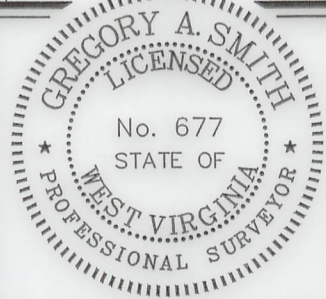
**SLS**  
FROM THE GROUND UP

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

sllwv.com

P.S. 677 *Gregory A. Smith*

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)			
NAD'83 S.P.C.(FT)	N. 486,501.62	E. 1,652,133.81	
NAD'83 GEO.	LAT-(N) 39.830246	LONG-(W) 80.626527	
NAD'83 UTM (M)	N. 4,408,983.19	E. 531,958.42	
LANDING POINT/LTP			
NAD'83 S.P.C.(FT)	N. 486,862.2	E. 1,653,347.3	
NAD'83 GEO.	LAT-(N) 39.831278	LONG-(W) 80.622222	
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BOTTOM HOLE			
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NAD'83 GEO.	LAT-(N) 39.805825	LONG-(W) 80.603096	
NAD'83 UTM (M)	N. 4,406,281.4	E. 533,975.4	



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

LEGEND	
EXTERIOR UNIT BOUNDARY	
INTERIOR LEASE BOUNDARY	
SURFACE LEASE	
PROPOSED UTICA	
WELL LATERAL	
400' OFFSET LINE	
500' OFFSET LINE	
TIE LINE	
CREEK	
ROAD	
FORCE POOL TRACT	
PROPOSED FIRST TAKE POINT	● FTP
PROPOSED LAST TAKE POINT	● LTP
COUNTY ROUTE	
PROPOSED WELL	
EXISTING WELL	
PERMITTED WELL	
SURFACE OWNER (SEE TABLE)	
LEASE # (SEE ADDITIONAL SHEETS)	

SCALE 1" = 2000' FILE NO. 9026P21HUAD.dwg  
BRECKENRIDGE S-21HU-REV6

DATE JANUARY 23, 2024

REVISED \_\_\_\_\_

OPERATORS WELL NO. BRECKENRIDGE S-21HU

API WELL NO. 47 - 051 - 02400

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

02/23/2024

COUNTY NAME  
PERMIT



**BRECKENRIDGE S LEASE  
UTICA UNIT - 342.88 AC±  
WELL 21HU  
EQT PRODUCTION CO.**



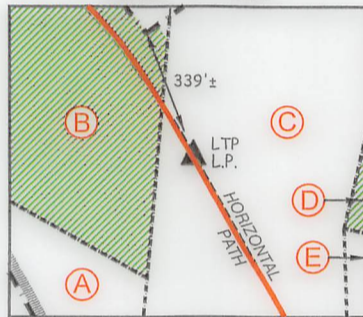
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1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952  
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
slswv.com

NO.	Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Deed Book/Page
1	10*31241	3-19-76	A	JAMES R WAYT, ET AL	729 40
2	*FORCE POOL*	3-19-75	B	KATHERINE ZOGG OLIVER	663 449
3	10*17925	3-18-1	C	BOUNTY MINERALS LLC	928 393
4	*FORCE POOL*	3-14-18	D	KEVIN R. EVANS	1008 561
5	10*17925	3-18-2	E	BOUNTY MINERALS LLC	928 393
6	10*17925	3-18-7	F	BOUNTY MINERALS LLC	928 393
7	10*17925	3-18-8	G	BOUNTY MINERALS LLC	928 393
8	10*17925	3-18-8.2	H	BOUNTY MINERALS LLC	928 393
9	10*17925	3-18-3.3	I	BOUNTY MINERALS LLC	928 393
10	10*17925	3-18-38	J	BOUNTY MINERALS LLC	928 393
11	10*17925	3-18-6.1	K	BOUNTY MINERALS LLC	928 393
12	*FORCE POOL*	3-18-6	L	BOUNTY MINERALS LLC	928 393
13	10*17925	3-18-5	M	BOUNTY MINERALS LLC	928 393
14	*FORCE POOL*	3-18-13	N	JOYCE M CORE AND DOUGLAS L CORE, ET AL	961 534
15	10*19995	3-18-14	O	JEFFREY L CUMPSTON AND TAMMY S CUMPSTON, ET AL	953 280
16	10*17925	7-1-13	P	BOUNTY MINERALS LLC	928 393
17	10*29980	7-2-1	Q	OLIVIA S ALLEN, ET AL	1103 537
18	10*29980	7-1-14	R	OLIVIA S ALLEN, ET AL	1103 537
19	*FORCE POOL*	7-2-2	S	WILLIAM L JOHNSON JR AND NORA J JOHNSON, ET AL	926 196
20	10*25503	7-2-3.1	T	BEVERLY MAE DAVIS, ET AL	910 270
21	10*25503	7-2-3.2	U	BEVERLY MAE DAVIS, ET AL	910 270
22	10*25503	7-2-3	V	BEVERLY MAE DAVIS, ET AL	910 270
23	*FORCE POOL*	7-2-4	W	DAVID W MITCHELL, ET AL	1105 1
24	*FORCE POOL*	7-2-4.1	X	DAVID W MITCHELL, ET AL	1105 1
25	10*26711	7-2-8	Y	CNX GAS COMPANY LLC	1074 593
26	*FORCE POOL*	7-2-4.2	Z	DAVID W MITCHELL, ET AL	1105 1
27	*FORCE POOL*	7-2-7	AA	DAVID W MITCHELL, ET AL	1105 1
28	*FORCE POOL*	7-2-7.1	BB	DAVID W MITCHELL, ET AL	1105 1
29	*FORCE POOL*	7-2-6	CC	VERNA IMOGENE CHAMBERS AIF LARRY E CHAMBERS, ET AL	953 549
30	*FORCE POOL*	7-2-5.1	DD	DAVID W MITCHELL, ET AL	1105 1
31	*FORCE POOL*	7-2-5	EE	DAVID W MITCHELL, ET AL	1105 1
32	*FORCE POOL*	7-7-9.1	FF	CONSTANCE LINT, ET AL	747 86

**LEGEND**

AS DRILLED	
PROPOSED	

DETAIL 1  
SCALE: 1" = 500'

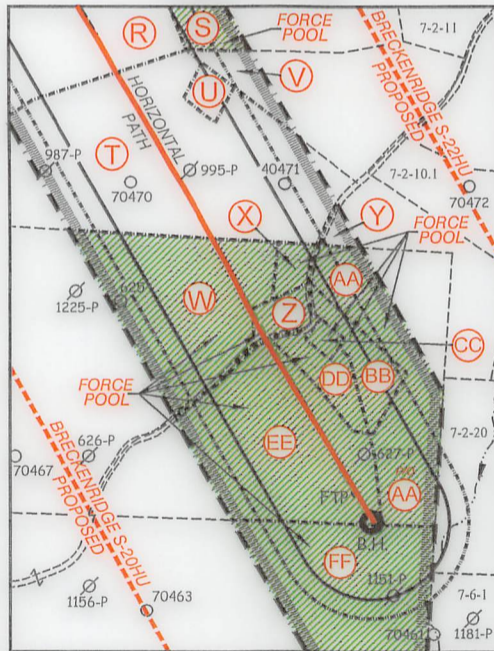


**AS DRILLED COORDINATES  
FOR WELL NO. 21HU**

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

NAD'83 S.P.C.(FT)	N. 486,501.62	E. 1,652,133.81
NAD'83 GEO.	LAT-(N) 39.830246	LONG-(W) 80.626527
NAD'83 UTM (M)	N. 4,408,983.19	E. 531,958.42
<b>LANDING POINT</b>		
NAD'83 S.P.C.(FT)	N. 486,835.4	E. 1,653,357.9
NAD'83 GEO.	LAT-(N) 39.831204	LONG-(W) 80.622183
NAD'83 UTM (M)	N. 4,409,091.1	E. 532,329.6
<b>BOTTOM HOLE</b>		
NAD'83 S.P.C.(FT)	N. 477,525.0	E. 1,658,618.0
NAD'83 GEO.	LAT-(N) 39.805825	LONG-(W) 80.603047
NAD'83 UTM (M)	N. 4,406,281.4	E. 533,979.6

DETAIL 2  
SCALE: 1" = 1000'



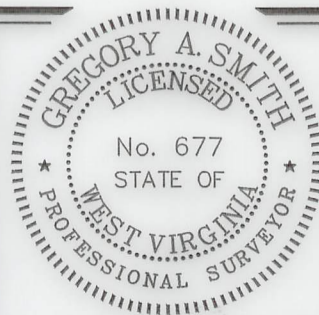
FILE NO. 9026P21HUAD.dwg  
BRECKENRIDGE S-21HU-REV6

DATE JANUARY 23, 2024

REVISED

OPERATORS WELL NO. BRECKENRIDGE S-21HU

API WELL NO. 47 — 051 — 02400  
STATE COUNTY PERMIT



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

02/26/2024

P.S. 677 *Gregory A. Smith*

COUNTY NAME  
PERMIT

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

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



**BRECKENRIDGE S LEASE  
UTICA UNIT - 342.88 AC±  
WELL 21HU  
EQT PRODUCTION CO.**

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

T.H.  
A.D.

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

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NAD'83 UTM (M)	N. 4,408,983.19	E. 531,958.42
<b>LANDING POINT/TIP</b>		
NAD'83 S.P.C.(FT)	N. 486,862.2	E. 1,653,347.3
NAD'83 GEO.	LAT-(N) 39.831278	LONG-(W) 80.622222
NAD'83 UTM (M)	N. 4,409,099.2	E. 532,326.3
<b>BOTTOM HOLE</b>		
NAD'83 S.P.C.(FT)	N. 477,525.1	E. 1,658,604.3
NAD'83 GEO.	LAT-(N) 39.805825	LONG-(W) 80.603096
NAD'83 UTM (M)	N. 4,406,281.4	E. 533,975.4

TAG	SURFACE OWNER	PARCEL	ACRES
A	CONSOL MINING COMPANY LLC	3-19-76	53.25
B	CONSOL MINING COMPANY LLC	3-19-75	47.40
C	CONSOL MINING COMPANY LLC	3-18-1	30.00
D	KEVIN R. EVANS	3-14-18	101.8
E	KEVIN R. EVANS	3-18-2	63.89
F	KEVIN R. & SHELLY JO EVANS	3-18-7	3.134
G	KEVIN R. EVANS	3-18-8	45.579
H	KEVIN R. & SHELLY JO EVANS	3-18-8.2	2.302
I	DAVID L. & ARIANNE R. ROBINSON	3-18-3.3	16.884
J	OLIVIA SUZANNE HUBBS	3-18-3B	0.433
K	AEP WEST VIRGINIA TRANSMISSION COMPANY INC.	3-18-6.1	10.175
L	MARY J. BURRIS (LIFE)	3-18-6	36.33
M	MOLLY KAY HUBBS COLLINS, ET AL	3-18-5	25.372
N	MOLLY KAY HUBBS COLLINS, ET AL	3-18-13	18.014
O	MOLLY KAY HUBBS COLLINS, ET AL	3-18-14	21.52
P	OLIVIA SUZANNE HUBBS	7-1-13	120.937
Q	MOLLY KAY HUBBS COLLINS, ET AL	7-2-1	65.70
R	MOLLY KAY HUBBS COLLINS, ET AL	7-1-14	53.67
S	WILLIAM E. & NANCY L. PARSONS	7-2-2	56.08
T	RICKIE GENE FRYE	7-2-3.1	37.8578
U	RICKIE GENE FRYE, ET UX	7-2-3.2	0.9922
V	BARBARA & RICKIE FRYE	7-2-3	11.24
W	KENNETH W. STEELE REV. LIVING TRUST	7-2-4	58.08
X	KENNETH W. STEELE REV. LIVING TRUST	7-2-4.1	1.00
Y	CONSOL MINING COMPANY LLC	7-2-8	3.82
Z	DAVID L. FRYE	7-2-4.2	1.25
AA	CONSOL MINING COMPANY LLC	7-2-7	12.825
BB	DAVID L. FRYE & MICHAEL G. SCHLIEPER	7-2-7.1	2.665
CC	DAVID L. FRYE & MICHAEL G. SCHLIEPER	7-2-6	0.54
DD	DAVID L. FRYE & MICHAEL G. SCHLIEPER	7-2-5.1	2.335
EE	ANTHONY SKRYPEK	7-2-5	20.915
FF	JEAN JAMISON	7-7-9.1	97.896

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
3-18-8.1	DANIEL LILLEY, ET UX	1.039
3-18-12	CHARLES N. MATTHEWS JR, ET UX	1.831
3-18-20	JESSE PARSONS EST.	2.02
3-19-78	CONSOL MINING COMPANY	30.927
7-2-9	BARBARA & RICKIE FRYE	73' x 200'
7-2-10.1	BRENNAN L. & CARRIE A. PAITH	8.391
7-2-11	WILLIAM E. PARTONS, ET UX	19.83
7-7-9	WILLARD JUNIOR EVANS & ROSE MARY EVANS - LIFE	2.214

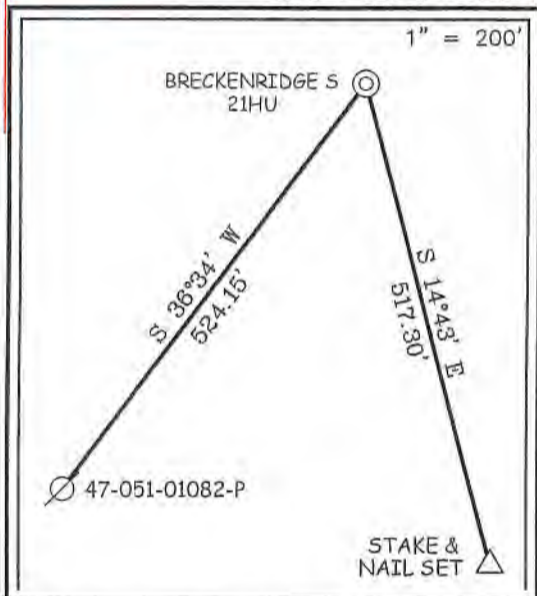
**LEGEND**

AS DRILLED

PROPOSED

B.H.  
A.D.

**REFERENCES**



**NOTES ON SURVEY**

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1"=2000'
- PROPOSED LATERAL OR TOP HOLE OF PROPOSED BRECKENRIDGE S-21HU IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF PROPOSED OR EXISTING WELLS:  
 PROPOSED BRECKENRIDGE S-17HU,  
 PROPOSED BRECKENRIDGE S-18HU,  
 PROPOSED BRECKENRIDGE S-19HU,  
 PROPOSED BRECKENRIDGE S-20HU,  
 PROPOSED BRECKENRIDGE S-22HU,  
 PROPOSED BRECKENRIDGE S-23HU.
- WELL PLAT UPDATED TO SHOW AS-DRILLED PATH.
- AS-DRILLED INFORMATION PROVIDED BY EQT PRODUCTION CO.



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26551 | 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

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



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE JANUARY 23, 20 24  
 REVISED \_\_\_\_\_  
 OPERATORS WELL NO. BRECKENRIDGE S-21HU  
 API WELL NO. 47 — 051 — 02400  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 9026P21HUAD.dwg  
BRECKENRIDGE S-21HU-REV6  
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

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



WELL TYPE: OIL \_\_\_\_\_ GAS X INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_ IF "GAS" PRODUCTION X STORAGE \_\_\_\_\_ DEEP X SHALLOW \_\_\_\_\_

LOCATION: ELEVATION 1,370.61' WATERSHED GRAVE CREEK (HUC 10) & LAUREL RUN  
 DISTRICT CAMERON COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER CONSOL MINING COMPANY LLC ACREAGE 53.25±  
 ROYALTY OWNER HASAN'S VENTURES, ET AL ACREAGE 02/23/2024

PROPOSED WORK: LEASE NO. SEE VWV-8A1  
 DRILL X CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_ OTHER \_\_\_\_\_  
 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION POINT PLEASANT  
 ESTIMATED DEPTH TVD: 12,117' / TMD: 23,131'

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



**BRECKENRIDGE S LEASE  
UTICA UNIT - 342.88 AC±  
WELL 21HU  
EQT PRODUCTION CO.**

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 84°18' W	3136.53'
L2	S 12°24' W	1274.67'
L3	N 37°54' E	53.73'
L4	N 34°24' E	1090.60'

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	29.69'	21.85'	N 64°14' E	27.46'
C2	93.73'	204.86'	S 62°02' E	92.91'
C3	325.70'	1805.64'	S 46°11' E	325.26'
C4	394.39'	2080.50'	S 34°27' E	393.80'

5,538' B.H. A.D. 429' T.H. A.D.

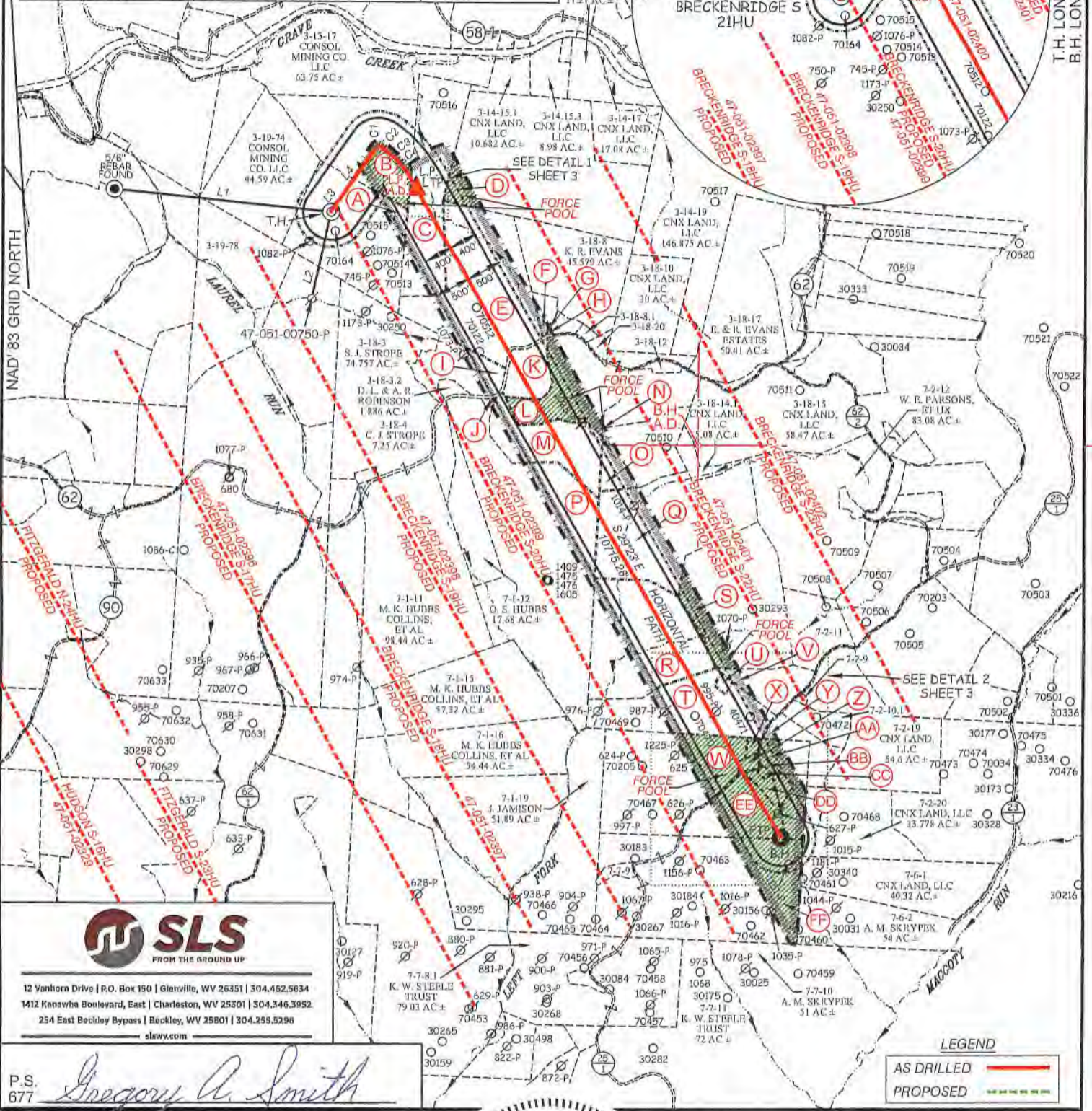
T.H. LATITUDE 39°50'00"  
B.H. LATITUDE 39°50'00"

T.H. A.D.

T.H. LONGITUDE 80°37'30"  
B.H. LONGITUDE 80°35'00"

1,125' T.H. A.D.

10,021' B.H. A.D.



12 Vanhorn Drive | P.O. Box 150 | Glenview, WV 26551 | 304.462.5634  
1412 Kneawha Boulevard, East | Charleston, WV 25301 | 304.346.3952  
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
slwv.com

P.S. 677 *Gregory A. Smith*

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)			
NAD'83 S.P.C.(FT)	N. 486,501.62	E. 1,652,133.81	
NAD'83 GEO.	LAT-(N) 39.830246	LONG-(W) 80.626527	
NAD'83 UTM (M)	N. 4,408,983.19	E. 531,958.42	
LANDING POINT/LTP			
NAD'83 S.P.C.(FT)	N. 486,862.2	E. 1,653,347.3	
NAD'83 GEO.	LAT-(N) 39.831278	LONG-(W) 80.622222	
NAD'83 UTM (M)	N. 4,409,099.2	E. 532,326.3	
BOTTOM HOLE			
NAD'83 S.P.C.(FT)	N. 477,525.1	E. 1,658,604.3	
NAD'83 GEO.	LAT-(N) 39.805825	LONG-(W) 80.603096	
NAD'83 UTM (M)	N. 4,408,281.4	E. 533,975.4	



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

LEGEND	
EXTERIOR UNIT BOUNDARY	
INTERIOR LEASE BOUNDARY	
SURFACE LINE	
PROPOSED UTICA	
WELL LATERAL	
400' OFFSET LINE	
500' OFFSET LINE	
TIE LINE	
CREEK	
ROAD	
FORCE POOL TRACT	
PROPOSED FIRST TAKE POINT	● FTP
PROPOSED LAST TAKE POINT	● LTP
COUNTY ROUTE	
PROPOSED WELL	
EXISTING WELL	
PERMITTED WELL	
SURFACE OWNER (SEE TABLE)	
LEASE # (SEE ADDITIONAL SHEETS)	

SCALE 1" = 2000' FILE NO. 9026P21HUAD.dwg  
BRECKENRIDGE S-21HU-REV6  
DATE JANUARY 23, 2024  
REVISED  
OPERATORS WELL NO. BRECKENRIDGE S-21HU  
API WELL NO. 47-051-02400  
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

02/23/2024

COUNTY NAME PERMIT



**BRECKENRIDGE S LEASE  
UTICA UNIT - 342.88 AC±  
WELL 21HU  
EQT PRODUCTION CO.**



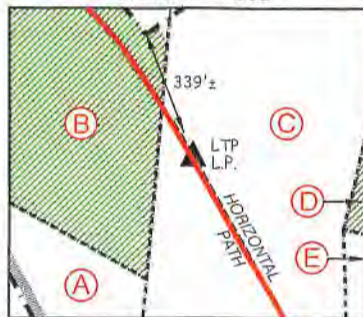
12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634  
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952  
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
slsv.com

NO.	Lease ID	Parcel	Tag	Grantor, Lessor, Etc.	Deed Book/Page
1	10*31241	3-19-76	A	JAMES R WAYT, ET AL	729 40
2	*FORCE POOL*	3-19-75	B	KATHERINE ZOGG OLIVER	663 449
3	10*17925	3-18-1	C	BOUNTY MINERALS LLC	928 393
4	*FORCE POOL*	3-14-18	D	KEVIN R. EVANS	1008 561
5	10*17925	3-18-2	E	BOUNTY MINERALS LLC	928 393
6	10*17925	3-18-7	F	BOUNTY MINERALS LLC	928 393
7	10*17925	3-18-8	G	BOUNTY MINERALS LLC	928 393
8	10*17925	3-18-8.2	H	BOUNTY MINERALS LLC	928 393
9	10*17925	3-18-3.3	I	BOUNTY MINERALS LLC	928 393
10	10*17925	3-18-38	J	BOUNTY MINERALS LLC	928 393
11	10*17925	3-18-6.1	K	BOUNTY MINERALS LLC	928 393
12	*FORCE POOL*	3-18-6	L	BOUNTY MINERALS LLC	928 393
13	10*17925	3-18-5	M	BOUNTY MINERALS LLC	928 393
14	*FORCE POOL*	3-19-13	N	JOYCE M CORE AND DOUGLAS L CORE, ET AL	961 534
15	10*19995	3-18-14	O	JEFFREY L CUMPSTON AND TAMMY S CUMPSTON, ET AL	953 280
16	10*17925	7-1-13	P	BOUNTY MINERALS LLC	928 393
17	10*29980	7-2-1	Q	OLIVIA S ALLEN, ET AL	1103 537
18	10*29980	7-1-14	R	OLIVIA S ALLEN, ET AL	1103 537
19	*FORCE POOL*	7-2-2	S	WILLIAM L JOHNSON JR AND NORA J JOHNSON, ET AL	926 196
20	10*25503	7-2-3.1	T	BEVERLY MAE DAVIS, ET AL	910 270
21	10*25503	7-2-3.2	U	BEVERLY MAE DAVIS, ET AL	910 270
22	10*25503	7-2-3	V	BEVERLY MAE DAVIS, ET AL	910 270
23	*FORCE POOL*	7-2-4	W	DAVID W MITCHELL, ET AL	1105 1
24	*FORCE POOL*	7-2-4.1	X	DAVID W MITCHELL, ET AL	1105 1
25	10*26711	7-2-8	Y	CNX GAS COMPANY LLC	1074 593
26	*FORCE POOL*	7-2-4.2	Z	DAVID W MITCHELL, ET AL	1105 1
27	*FORCE POOL*	7-2-7	AA	DAVID W MITCHELL, ET AL	1105 1
28	*FORCE POOL*	7-2-7.1	BB	DAVID W MITCHELL, ET AL	1105 1
29	*FORCE POOL*	7-2-6	CC	VERNA IMOGENE CHAMBERS AIF LARRY E CHAMBERS, ET AL	953 549
30	*FORCE POOL*	7-2-5.1	DD	DAVID W MITCHELL, ET AL	1105 1
31	*FORCE POOL*	7-2-5	EE	DAVID W MITCHELL, ET AL	1105 1
32	*FORCE POOL*	7-7-9.1	FF	CONSTANCE LINT, ET AL	747 86

**LEGEND**

AS DRILLED ———  
PROPOSED - - - - -

DETAIL 1  
SCALE: 1" = 500'

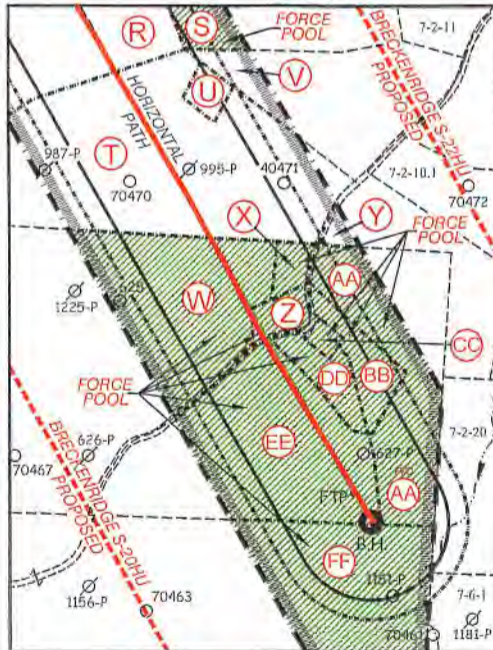


**AS DRILLED COORDINATES  
FOR WELL NO. 21HU**

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

NAD'83 S.P.C.(FT)	N. 406,501.62	E. 1,652,133.81
NAD'83 GEO.	LAT-(N) 39.830246	LONG-(W) 80.626527
NAD'83 UTM (M)	N. 4,408,983.19	E. 531,958.42
<b>LANDING POINT</b>		
NAD'83 S.P.C.(FT)	N. 486,835.4	E. 1,653,357.9
NAD'83 GEO.	LAT-(N) 39.831204	LONG-(W) 80.622183
NAD'83 UTM (M)	N. 4,409,091.1	E. 532,329.6
<b>BOTTOM HOLE</b>		
NAD'83 S.P.C.(FT)	N. 477,525.0	E. 1,658,618.0
NAD'83 GEO.	LAT-(N) 39.805825	LONG-(W) 80.603047
NAD'83 UTM (M)	N. 4,405,281.4	E. 533,979.6

DETAIL 2  
SCALE: 1" = 1000'



FILE NO. 9026P21HUAD.dwg  
BRECKENRIDGE S-21HU-REV6

DATE JANUARY 23, 20 24

REVISED

OPERATORS WELL NO. BRECKENRIDGE S-21HU

API WELL NO. 47 — 051 — 02400  
STATE COUNTY PERMIT



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



P.S. 677 *Gregory A. Smith*

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

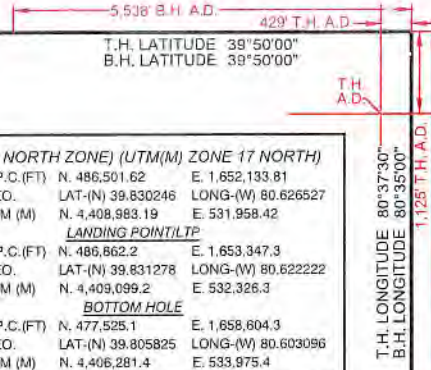
DESIGNATED AGENT JOSEPH C. MALLOW  
ADDRESS 427 MIDSTATE DRIVE  
CLARKSBURG, WV 26301

COUNTY NAME

PERMIT



**BRECKENRIDGE S LEASE  
UTICA UNIT - 342.88 AC±  
WELL 21HU  
EQT PRODUCTION CO.**



(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)  
 NAD'83 S.P.C.(FT) N. 486,501.62 E. 1,652,133.81  
 NAD'83 GEO. LAT-(N) 39.830246 LONG-(W) 80.626527  
 NAD'83 UTM (M) N. 4,408,983.19 E. 531,958.42

**LANDING POINT/LTP**  
 NAD'83 S.P.C.(FT) N. 486,862.2 E. 1,653,347.3  
 NAD'83 GEO. LAT-(N) 39.831278 LONG-(W) 80.622222  
 NAD'83 UTM (M) N. 4,409,099.2 E. 532,326.3

**BOTTOM HOLE**  
 NAD'83 S.P.C.(FT) N. 477,525.1 E. 1,658,804.3  
 NAD'83 GEO. LAT-(N) 39.805825 LONG-(W) 80.603096  
 NAD'83 UTM (M) N. 4,406,281.4 E. 533,975.4

TAG	SURFACE OWNER	PARCEL	ACRES
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B	CONSOL MINING COMPANY LLC	3-19-75	47.40
C	CONSOL MINING COMPANY LLC	3-18-61	50.00
D	KEVIN R. EVANS	3-14-18	301.8
E	KEVIN R. EVANS	3-18-2	63.89
F	KEVIN R. & SHELLY JO EVANS	3-18-7	2.134
G	KEVIN R. EVANS	3-18-8	45.579
H	KEVIN R. & SHELLY JO EVANS	3-18-2	2.302
I	DAVID L. & ARIANNE R. ROBINSON	3-18-5.3	19.884
J	OLIVIA SUZANNE HUBBS	3-18-38	0.435
K	AEP WEST VIRGINIA TRANSMISSION COMPANY INC	3-18-6.1	10.175
L	MARY J. BURRIS (LIFE)	3-18-6	26.73
M	MOLLY KAY HUBBS COLLINS, ET AL	3-18-5	25.372
N	MOLLY KAY HUBBS COLLINS, ET AL	3-18-13	16.014
O	MOLLY KAY HUBBS COLLINS, ET AL	3-18-14	31.32
P	OLIVIA SUZANNE HUBBS	7-1-13	120.927
Q	MOLLY KAY HUBBS COLLINS, ET AL	7-2-1	65.10
R	MOLLY KAY HUBBS COLLINS, ET AL	7-1-14	53.67
S	WILLIAM E. & NANCY L. PARSONS	7-2-2	56.08
T	RICKIE GENE FRYE	7-2-3.1	27.8578
U	RICKIE GENE FRYE, ET UX	7-2-3.2	0.9922
V	BARBARA & RICKIE FRYE	7-2-3	11.24
W	KENNETH W. STEELE REV. LIVING TRUST	7-2-4	58.08
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Z	DAVID L. FRYE	7-2-2	1.25
AA	CONSOL MINING COMPANY LLC	7-2-7	11.825
BB	DAVID L. FRYE & MICHAEL G. SCHLIEFER	7-2-7.1	2.665
CC	DAVID L. FRYE & MICHAEL G. SCHLIEFER	7-2-6	0.54
DD	DAVID L. FRYE & MICHAEL G. SCHLIEFER	7-2-5.1	2.335
EE	ANTHONY SKRYPEK	7-2-5	20.013
FF	JEAN JAMISON	7-2-9.1	97.886

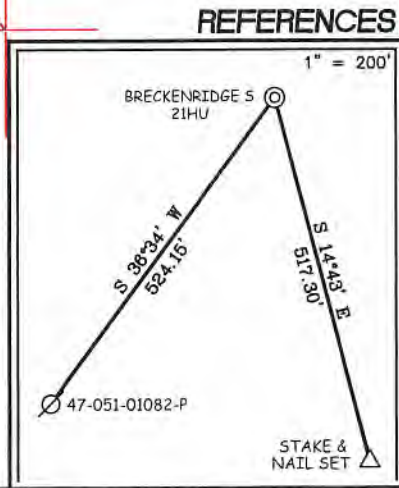
MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
3-18-8.1	DANIEL LILLEY, ET UX	1.039
3-18-12	CHARLES N. MATTHEWS JR, ET UX	1.831
3-18-20	JESSE PARSONS EST	2.62
3-19-76	CONSOL MINING COMPANY	30.927
7-2-9	BARBARA & RICKIE FRYE	73.4309
7-2-10.1	BRENNAN L. & CARRIE A. FAITH	8.391
7-2-11	WILLIAM E. PARSONS, ET UX	19.82
7-2-9	WILLARD J. NIOR EVANS & ROSE MARY EVANS - LIFE	2.214

**LEGEND**  
 AS DRILLED   
 PROPOSED

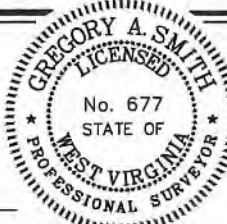


**NOTES ON SURVEY**

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 825' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1"=2000'
- PROPOSED LATERAL OR TOP HOLE OF PROPOSED BRECKENRIDGE S-21HU IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF PROPOSED OR EXISTING WELLS:  
 PROPOSED BRECKENRIDGE S-17HU,  
 PROPOSED BRECKENRIDGE S-18HU,  
 PROPOSED BRECKENRIDGE S-19HU,  
 PROPOSED BRECKENRIDGE S-20HU,  
 PROPOSED BRECKENRIDGE S-22HU,  
 PROPOSED BRECKENRIDGE S-23HU.
- WELL PLAT UPDATED TO SHOW AS-DRILLED PATH.
- AS-DRILLED INFORMATION 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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE JANUARY 23, 20 24  
 REVISED \_\_\_\_\_  
 OPERATORS WELL NO. BRECKENRIDGE S-21HU  
 API WELL NO. 47 - 051 - 02400  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 9026P21HUAD.dwg  
BRECKENRIDGE S-21HU-REV6  
 HORIZONTAL & VERTICAL SCALE 1" = 2000'  
 CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)

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 1,370.61' WATERSHED GRAVE CREEK (HUC 10) & LAUREL RUN  
 DISTRICT CAMERON COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER CONSOL MINING COMPANY LLC ACREAGE 53.25±  
 ROYALTY OWNER HASAN'S VENTURES, ET AL ACREAGE 53.25±

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 POINT PLEASANT  
 ESTIMATED DEPTH TVD: 12,117' / TMD: 23,131'

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

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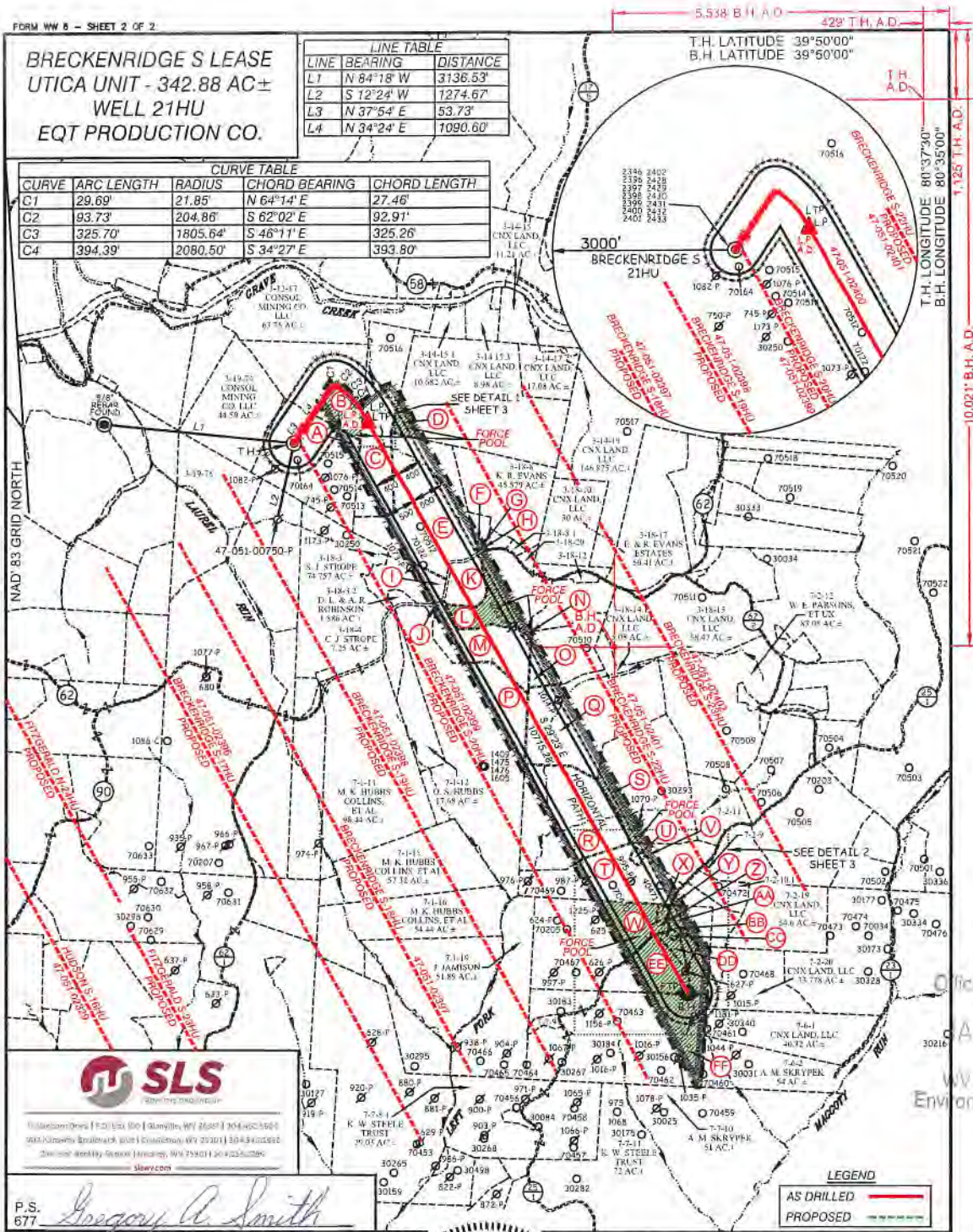
02/23/2024



**BRECKENRIDGE S LEASE  
UTICA UNIT - 342.88 AC±  
WELL 21HU  
EQT PRODUCTION CO.**

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 84°18' W	3136.53'
L2	S 12°24' W	1274.67'
L3	N 37°54' E	53.73'
L4	N 34°24' E	1090.60'

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	29.69'	21.85'	N 64°14' E	27.46'
C2	93.73'	204.86'	S 62°02' E	92.91'
C3	325.70'	1805.64'	S 46°11' E	325.26'
C4	394.39'	2080.50'	S 34°27' E	393.80'



**SLS**  
SURVEYING & LAND SERVICES, LLC  
1000 West Virginia Turnpike, Martinsburg, WV 26041  
304.261.1111

P.S. 677 *Gregory A. Smith*

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)			
NAD83 S.P.C. (FT)	N. 486,501.62	E. 1,652,133.31	
NAD83 GEO.	LAT-(N) 39.830246	LONG-(W) 80.626527	
NAD83 UTM (M)	N. 4,408,963.19	E. 531,958.42	
LANDING POINT/LTP			
NAD83 S.P.C. (FT)	N. 486,862.2	E. 1,653,347.3	
NAD83 GFO.	LAT-(N) 39.831278	LONG-(W) 80.622222	
NAD83 UTM (M)	N. 4,409,099.2	E. 532,326.3	
BOTTOM HOLE			
NAD83 S.P.C. (FT)	N. 477,525.1	E. 1,658,804.3	
NAD83 GEO.	LAT-(N) 39.805825	LONG-(W) 80.630396	
NAD83 UTM (M)	N. 4,408,285.4	E. 533,975.4	



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

LEGEND	
EXTERIOR UNIT BOUNDARY	
INTERIOR LEASE BOUNDARY	
SURFACE LINE	
PROPOSED UTICA	
WELL LATERAL	
400' OFFSET LINE	
500' OFFSET LINE	
TIE LINE	
CREEK	
ROAD	
FORCE POOL TRACT	
PROPOSED FIRST TAKE POINT	
PROPOSED LAST TAKE POINT	
COUNTY ROUTE	
PROPOSED WELL	
EXISTING WELL	
PERMITTED WELL	
SURFACE OWNER (SEE TABLE)	
LEASE # (SEE ADDITIONAL SHEETS)	

SCALE 1" = 2000' FILE NO. 9026P21HUAD.dwg  
BRECKENRIDGE S-21HU-REV6  
DATE JANUARY 23, 2024  
REVISED  
OPERATORS WELL NO. BRECKENRIDGE S-21HU  
API WELL 47-051-02400  
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**

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**BRECKENRIDGE S LEASE  
UTICA UNIT - 342.88 AC ±  
WELL 21HU  
EQT PRODUCTION CO.**



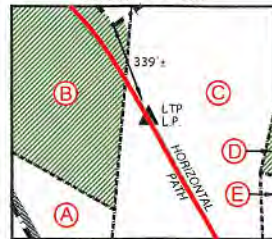
17000001004 | FAX 800.391.1344 | 3440000 | WV 26031 | 801.349.8911  
402 Sycamore Boulevard, Fairmont, WV 26031 | 801.349.8911  
244 East Wheeling Avenue | Beckley, WV 26001 | 1-800-231-5295  
sls.com

NO.	Lease ID	Parcel	Tag	Grantor, Lessor, etc.	Deed Book/Page
1	10*13241	3-19-76	A	JAMES R WATY, ET AL	729 42
2	*FORCE POOL*	3-19-75	B	KATHERINE ZOGG OLIVER	661 449
3	10*17925	3-18-1	C	BOUNTY MINERALS LLC	928 393
4	*FORCE POOL*	3-14-18	D	KEVIN R EVANS	1008 561
5	10*17925	3-18-2	E	BOUNTY MINERALS LLC	928 393
6	10*17925	3-18-7	F	BOUNTY MINERALS LLC	928 393
7	10*17925	3-18-8	G	BOUNTY MINERALS LLC	928 393
8	10*17925	3-18-9	H	BOUNTY MINERALS LLC	928 393
9	10*17925	3-18-3	I	BOUNTY MINERALS LLC	928 393
10	10*17925	3-18-10	J	BOUNTY MINERALS LLC	928 393
11	10*17925	3-18-6	K	BOUNTY MINERALS LLC	928 393
12	*FORCE POOL*	3-18-6	L	BOUNTY MINERALS LLC	928 393
13	10*17925	3-18-5	M	BOUNTY MINERALS LLC	928 393
14	*FORCE POOL*	3-18-13	N	JOYCE M CORE AND DOUGLAS L CORE, ET AL	861 534
15	10*19985	7-2-14	O	JEFFREY L CUMPTON AND TAMMY S CUMPTON, ET AL	853 280
16	10*17925	7-1-13	P	BOUNTY MINERALS LLC	928 393
17	10*29880	7-2-2	Q	OLIVIA S ALLEN, ET AL	1103 537
18	10*29880	7-1-14	R	OLIVIA S ALLEN, ET AL	1103 537
19	*FORCE POOL*	7-2-3	S	WILLIAM I JOHNSON, JR AND NORA J JOHNSON, ET AL	926 196
20	10*25603	7-2-3	T	BEVERLY MAE DAVIS, ET AL	910 270
21	10*25603	7-2-3	U	BEVERLY MAE DAVIS, ET AL	910 270
22	10*25603	7-2-3	V	BEVERLY MAE DAVIS, ET AL	910 270
23	*FORCE POOL*	7-2-4	W	DAVID W MITCHELL, ET AL	1105 1
24	*FORCE POOL*	7-2-4	X	DAVID W MITCHELL, ET AL	1105 1
25	10*26711	7-2-8	Y	CNX GAS COMPANY LLC	1074 593
26	*FORCE POOL*	7-2-4	Z	DAVID W MITCHELL, ET AL	1105 1
27	*FORCE POOL*	7-2-7	AA	DAVID W MITCHELL, ET AL	1105 1
28	*FORCE POOL*	7-2-7	BB	DAVID W MITCHELL, ET AL	1105 1
29	*FORCE POOL*	7-2-6	CC	VERNA IMOGENE CHAMBERS AIF LARRY E CHAMBERS, ET AL	951 549
30	*FORCE POOL*	7-2-5	DD	DAVID W MITCHELL, ET AL	1105 1
31	*FORCE POOL*	7-2-5	EE	DAVID W MITCHELL, ET AL	1105 1
32	*FORCE POOL*	7-2-5	FF	CONSTANCE LINT, ET AL	747 86

**LEGEND**

AS DRILLED ——  
PROPOSED ——

**DETAIL 1  
SCALE: 1" = 500'**

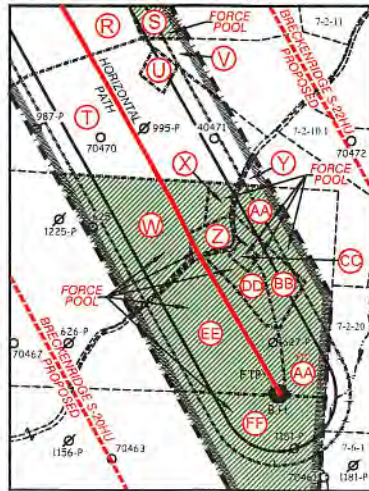


**AS DRILLED COORDINATES  
FOR WELL NO. 21HU**

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

NAD'83 S.P.C. (FT)	N. 485,501.62	E. 1,652,133.81
NAD'83 GEO.	LAT. (N) 39.830246	LONG. (W) 80.626527
NAD'83 UTM (M)	N. 4,408,983.19	E. 531,956.42
<b>LANDING POINT</b>		
NAD'83 S.P.C. (FT)	N. 486,835.4	E. 1,653,357.9
NAD'83 GEO.	LAT. (N) 39.831204	LONG. (W) 80.622183
NAD'83 UTM (M)	N. 4,409,091.1	E. 532,329.6
<b>BOTTOM HOLE</b>		
NAD'83 S.P.C. (FT)	N. 477,525.0	E. 1,658,618.0
NAD'83 GEO.	LAT. (N) 39.805825	LONG. (W) 80.603047
NAD'83 UTM (M)	N. 4,406,261.4	E. 533,979.6

**DETAIL 2  
SCALE: 1" = 1000'**



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Environmental Protection

FILE NO. 9026P21HUAD.dwg  
BRECKENRIDGE S-21HU-REV6

DATE JANUARY 23, 2024

REVISED \_\_\_\_\_

OPERATORS WELL NO. BRECKENRIDGE S-21HU

API WELL NO. 47 — 051 — 02400

NO. STATE COUNTY PERMIT



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



P.S. 677 Gregory A. Smith

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

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

02/23/2024



## Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	09/12/2023
Job End Date:	10/14/2023
State:	West Virginia
County:	Marshall
API Number:	47-051-02400-00-00
Operator Name:	EQT Production
Well Name and Number:	Breckenridge S-21HU
Latitude:	39.830246
Longitude:	-80.626527
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	12150
Total Base Water Volume (gal)*:	22358700
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	87.17239	None
Sand (Proppant)	EQT	Proppant					
			Silica Substrate	14808-60-7	100.00000	12.63468	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Copolymer of 2-propenamide	Proprietary	30.00000	0.01212	None
Clearal 268	ChemStream	Biocide					
			Non-hazardous substances	Proprietary	80.00000	0.00890	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor					
			Non-hazardous substances	Proprietary	90.00000	0.00756	None
StimSTREAM	ChemStream	Friction					

02/23/2024



FR 9800		Reducer					
			Petroleum Distillate	64742-47-8	20.00000	0.00539	None
Enviro-Syn HCR-7000-WL	STAAR Logistics, LLC	Synthetic Acid					
			Proprietary	Proprietary	20.00000	0.00140	None
Clearal 268	ChemStream	Biocide					
			Glutaraldehyde	111-30-8	20.00000	0.00056	None
Enviro-Syn HCR-7000-WL	STAAR Logistics, LLC	Synthetic Acid					
			Proprietary	Proprietary	10.00000	0.00035	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor					
			Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid) (BHMT)	34690-00-1	10.00000	0.00009	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Oleic Acid Diethanolamide	93-83-4	2.00000	0.00005	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00005	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
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Ammonium chloride (NH <sub>4</sub> Cl)	12125-02-9	1.00000	0.00001	None
Clearal 268	ChemStream	Biocide					
			Ethanol	64-17-5	1.50000	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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# Perforation Data

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Stage_Number	Perf_Date	Depth_Bottom	Depth_Top	Shot_Count	Formation
2	09/13/2023	22951	22775	48	Utica
3	09/14/2023	22751	22576	48	Utica
4	09/14/2023	22552	22376	48	Utica
5	09/19/2023	22352	22177	48	Utica
6	09/19/2023	22153	21977	48	Utica
7	09/19/2023	21953	21777	48	Utica
8	09/20/2023	21753	21578	48	Utica
9	09/20/2023	21554	21378	48	Utica
10	09/20/2023	21354	21179	48	Utica
11	09/21/2023	21155	20979	48	Utica
12	09/21/2023	20955	20779	48	Utica
13	09/21/2023	20755	20580	48	Utica
14	09/21/2023	20556	20380	48	Utica
15	09/22/2023	20356	20181	48	Utica
16	09/22/2023	20157	19981	48	Utica
17	09/22/2023	19957	19781	48	Utica
18	09/23/2023	19757	19582	48	Utica
19	09/23/2023	19558	19382	48	Utica
20	09/24/2023	19358	19183	48	Utica
21	09/24/2023	19159	18983	48	Utica
22	09/24/2023	18959	18783	48	Utica
23	09/24/2023	18759	18584	48	Utica
24	09/25/2023	18560	18384	48	Utica
25	09/25/2023	18360	18185	48	Utica
26	09/25/2023	18161	17985	48	Utica
27	09/26/2023	17961	17785	48	Utica
28	09/26/2023	17761	17586	48	Utica
29	09/26/2023	17562	17386	48	Utica
30	09/27/2023	17362	17187	48	Utica
31	09/27/2023	17163	16987	48	Utica
32	09/27/2023	16963	16787	48	Utica
33	09/28/2023	16763	16588	48	Utica
34	09/28/2023	16564	16388	48	Utica
35	09/28/2023	16364	16189	48	Utica
36	09/28/2023	16165	15989	48	Utica
37	09/29/2023	15965	15789	48	Utica
38	09/29/2023	15765	15590	48	Utica
39	09/29/2023	15566	15390	48	Utica
40	09/30/2023	15366	15191	48	Utica
41	10/01/2023	15167	14991	48	Utica
42	10/02/2023	14967	14791	48	Utica
43	10/02/2023	14767	14592	48	Utica
44	10/03/2023	14568	14392	48	Utica
45	10/04/2023	14368	14193	48	Utica
46	10/04/2023	14169	13993	48	Utica
47	10/05/2023	13969	13793	48	Utica

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48 10/07/2023	13769	13594	48 Utica
49 10/07/2023	13570	13394	48 Utica
50 10/07/2023	13370	13195	48 Utica
51 10/07/2023	13171	12995	48 Utica
52 10/08/2023	12971	12795	48 Utica
53 10/08/2023	12771	12596	48 Utica
54 10/08/2023	12572	12396	48 Utica
55 10/09/2023	12372	12247	36 Utica

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# Stimulation Data

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Stimulation_Date	Stage_Number	Avg_Pump_Rate	Avg_Treatment_Pressure	Pressure_Breakdown	ISIP	Amount_of_Proppant_lbs	Amount_of_Water_bbls	Proppant_Type	Proppant_Mesh_Size
09/13/2023	1	62	10649	9597	7075	200358		3820 Sand	100 MESH; 40/70;
09/14/2023	2	89	12049	9652	7074	500274		9510 Sand	100 MESH; 40/70;
09/14/2023	3	86	11404	8443	7173	500315		9540 Sand	100 MESH; 40/70;
09/19/2023	4	93	12171	8678	7581	499953		9460 Sand	100 MESH; 40/70;
09/19/2023	5	92	12092	8908	7302	500319		9479 Sand	100 MESH; 40/70;
09/19/2023	6	89	11836	9202	7287	500185		9457 Sand	100 MESH; 40/70;
09/20/2023	7	90	11825	8680	7911	500230		9464 Sand	100 MESH; 40/70;
09/20/2023	8	90	11898	8512	7822	500445		9468 Sand	100 MESH; 40/70;
09/20/2023	9	90	11965	8652	7500	500419		9465 Sand	100 MESH; 40/70;
09/21/2023	10	89	11769	8296	7421	500088		10820 Sand	100 MESH; 40/70;
09/21/2023	11	90	11948	9192	7804	500121		9460 Sand	100 MESH; 40/70;
09/21/2023	12	80	11364	8721	7504	480056		9347 Sand	100 MESH; 40/70;
09/22/2023	13	90	11880	9141	7989	500025		9472 Sand	100 MESH; 40/70;
09/22/2023	14	90	11787	8651	8185	500094		9493 Sand	100 MESH; 40/70;
09/22/2023	15	90	11743	8919	8238	500035		9487 Sand	100 MESH; 40/70;
09/23/2023	16	90	11899	9215	8174	500066		9489 Sand	100 MESH; 40/70;
09/23/2023	17	90	11891	9258	8100	500138		9476 Sand	100 MESH; 40/70;
09/24/2023	18	89	11877	9652	8036	500112		9478 Sand	100 MESH; 40/70;
09/24/2023	19	90	11949	9105	7884	500020		9477 Sand	100 MESH; 40/70;
09/24/2023	20	90	11922	8728	8265	500063		9471 Sand	100 MESH; 40/70;
09/24/2023	21	90	11730	10348	8111	500119		9463 Sand	100 MESH; 40/70;
09/25/2023	22	90	11777	9403	8119	500154		9473 Sand	100 MESH; 40/70;
09/25/2023	23	90	11800	8766	7831	500081		9470 Sand	100 MESH; 40/70;
09/25/2023	24	90	11773	8949	8348	500123		9466 Sand	100 MESH; 40/70;
09/26/2023	25	89	11651	8828	8122	474217		9722 Sand	100 MESH; 40/70;
09/26/2023	26	90	11730	8527	8046	500076		9491 Sand	100 MESH; 40/70;
09/26/2023	27	90	11663	8176	8712	500077		9498 Sand	100 MESH; 40/70;
09/27/2023	28	90	11578	8587	8729	500017		9509 Sand	100 MESH; 40/70;
09/27/2023	29	90	11499	8808	8090	500018		9492 Sand	100 MESH; 40/70;
09/27/2023	30	89	11614	8933	7834	500260		9500 Sand	100 MESH; 40/70;
09/27/2023	31	89	11440	8592	8469	500088		9499 Sand	100 MESH; 40/70;
09/28/2023	32	90	11443	8604	8237	500398		9501 Sand	100 MESH; 40/70;
09/28/2023	33	90	11490	9786	7990	500316		9516 Sand	100 MESH; 40/70;
09/28/2023	34	84	11614	9383	7762	500361		9495 Sand	100 MESH; 40/70;
09/29/2023	35	90	11495	9365	8084	500276		9526 Sand	100 MESH; 40/70;
09/29/2023	36	88	11404	8785	8276	500154		9499 Sand	100 MESH; 40/70;
09/30/2023	37	90	11408	9146	8888	500373		9500 Sand	100 MESH; 40/70;
09/30/2023	38	89	11359	10524	8482	500131		9493 Sand	100 MESH; 40/70;
10/01/2023	39	90	11367	9677	7946	503673		9500 Sand	100 MESH; 40/70;
10/01/2023	40	88	11188	9338	7918	500144		9509 Sand	100 MESH; 40/70;
10/02/2023	41	90	11383	8966	8260	500040		9500 Sand	100 MESH; 40/70;
10/03/2023	42	90	11371	8300	8052	499930		9497 Sand	100 MESH; 40/70;
10/03/2023	43	90	11378	9080	7572	500439		9555 Sand	100 MESH; 40/70;
10/04/2023	44	90	11359	9266	8162	499960		9495 Sand	100 MESH; 40/70;
10/04/2023	45	90	11186	9262	7879	500458		9519 Sand	100 MESH; 40/70;
10/05/2023	46	89	11374	10083	7655	500380		9518 Sand	100 MESH; 40/70;
10/07/2023	47	90	11373	9074	8216	499953		9487 Sand	100 MESH; 40/70;
10/07/2023	48	90	11318	10064	8413	500224		9495 Sand	100 MESH; 40/70;
10/07/2023	49	85	11090	9434	8292	500614		9570 Sand	100 MESH; 40/70;
10/07/2023	50	82	10906	9495	8455	500366		9506 Sand	100 MESH; 40/70;
10/08/2023	51	90	11370	9744	8446	500352		9511 Sand	100 MESH; 40/70;
10/08/2023	52	89	11088	10004	8311	500350		9512 Sand	100 MESH; 40/70;
10/09/2023	53	90	11334	10187	8080	500249		9495 Sand	100 MESH; 40/70;
10/09/2023	54	84	10786	10324	7422	500424		9511 Sand	100 MESH; 40/70;
10/10/2023	55	90	11497	9487	7480	375107		7163 Sand	100 MESH; 40/70;

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