

Well Operator's Report of Well Work



Well Number: Breckenridge S-20HU

API: 47 - 051 - 02399

Submission: Initial Amended

Notes:

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Office of Oil and Gas

JAN 29 2024

WV Department of
Environmental Protection

02/23/2024

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47 - 051 - 02399 County Marshall District Cameron
Quad Glen Easton 7.5' Pad Name Breckenridge Field/Pool Name _____
Farm name CNX Land, LLC Well Number Breckenridge S-20HU
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 4,408,984.01 Easting 531,954.86
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 1,370' 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)
SOBM; Base oil, osmotic inhibitor, weighting agent, viscosifier, emulsifier, hardness buffer, fluid loss additive, LCM, Shale inhibitor, de-foamer, soaping agent, coagulant, flocculant; specific additives per WSSP and Permit.

Date permit issued 11/17/2021 Date drilling commenced spud: 3/9/2022 big rig: 7/23/2022 Date drilling ceased 10/26/2022
Date completion activities began 9/12/2023 Date completion activities ceased 10/30/2023
Verbal plugging (Y/N) N Date permission granted NA Granted by NA

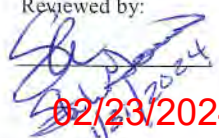
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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 1,081' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1,548' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 985' & 1,075' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

02/23/2024

API 47-051 - 02399 Farm name CNX Land, LLC Well number Breckenridge S-20HU

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"	1,173'	NEW	106.5#	N/A	Y
Coal	26"	20"	1,173'	NEW	106.5#	N/A	Y
Intermediate 1	17 1/2"	13 3/8"	3,006'	NEW	54.5#	N/A	Y
Intermediate 2	12 1/4"	9 5/8"	10,892'	NEW	47#	N/A	Y
Intermediate 3							
Production	8 1/2"	5 1/2"	24,376'	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 ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	A	400	15.6	1.21	484	0	8
Surface	A	2010	15.6	1.18	2371	0	8
Coal	A	2010	15.6	1.18	2371	0	8
Intermediate 1	A	2355	15.6	1.18	2778	0	8
Intermediate 2	A	4225	14.5	1.31	5534	0	8
Intermediate 3							
Production	A	5640	16.5	1.08	6091	0	8
Tubing							

Drillers TD (ft) 24,416' Loggers TD (ft) N/A

Deepest formation penetrated Trenton Plug back to (ft) N/A

Plug back procedure N/A

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Kick off depth (ft) 10,892'

JAN 29 2024

Check all wireline logs run caliper density deviated/directional induction neutron resistivity gamma ray temperature sonic

WV Department of Environmental Protection

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.

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 _____

02/23/2024

Well # BRECKENRIDGE S-20HU (L027200) Final Formations API# 47-051-02399				
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	2,619
Weir	2,619	2,619	2,821	2,821
Berea	2,821	2,821	3,077	3,077
Gordon	3,077	3,077	3,176	3,176
Fifty Foot	3,176	3,176	3,743	3,742
Speechley	3,743	3,742	5,236	5,234
Benson	5,236	5,234	5,634	5,632
Alexander	5,634	5,632	6,264	6,262
Rhinestreet	6,264	6,262	6,752	6,750
Middlesex	6,752	6,750	6,821	6,819
Geneseo	6,821	6,819	6,855	6,853
Tully	6,855	6,853	6,882	6,880
Hamilton	6,882	6,880	6,978	6,976
Marcellus	6,978	6,976	7,028	7,026
Onondaga	7,028	7,026	7,244	7,242
Oriskany	7,244	7,242	7,380	7,376
Helderberg	7,380	7,376	7,735	7,724
Salina	7,735	7,724	8,863	8,817
Lockport	8,863	8,817	9,245	9,189
Rose Hill	9,245	9,189	9,555	9,488
Packer Shell	9,555	9,488	9,801	9,726
Clinton/Tuscarora	9,801	9,726	9,908	9,829
Juniata/Queenston	9,908	9,829	10,776	10,683
Reedsville	10,776	10,683	11,888	11,737
Utica	11,888	11,737	24,416	12,215

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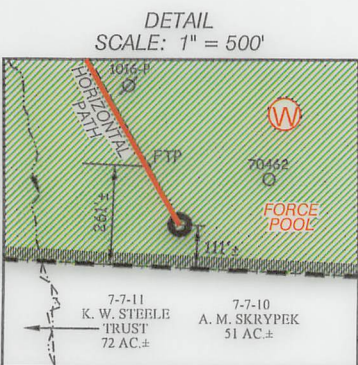

**BRECKENRIDGE S LEASE
UTICA UNIT - 371.44 AC±
WELL 20HU
EQT PRODUCTION CO.**

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	3-19-74	44.59
D	SONJA J. STROPE	3-19-77	46.783
E	CONSOL MINING COMPANY LLC	3-18-1	30.00
F	SONJA J. STROPE	3-18-3	74.757
G	KEVIN R. EVANS	3-18-2	63.89
H	DAVID L. & ARIANNE R. ROBINSON	3-18-3.3	16.884
I	DAVID L. & ARIANNE R. ROBINSON	3-18-3.2	1.886
J	OLIVIA SUZANNE HUBBS	3-18-38	0.433
K	CHARLES JARED STROPE	3-18-4	7.25
L	MOLLY KAY HUBBS COLLINS, ET AL	7-1-11	98.44
M	MOLLY KAY HUBBS COLLINS, ET AL	3-18-5	25.372
N	OLIVIA SUZANNE HUBBS	7-1-12	17.68
O	OLIVIA SUZANNE HUBBS	7-1-13	120.937
P	MOLLY KAY HUBBS COLLINS, ET AL	7-1-14	53.67
Q	MOLLY KAY HUBBS COLLINS, ET AL	7-1-15	57.32
R	MOLLY KAY HUBBS COLLINS, ET AL	7-1-16	54.44
S	RICKIE GENE FRYE	7-2-3.1	37.8578
T	JEAN JAMISON	7-1-19	51.89
U	KENNETH W. STEELE REV. LIVING TRUST	7-2-4	58.08
V	ANTHONY SKRYPEK	7-2-5	20.915
W	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. 486,504.51 E. 1,652,122.16
 NAD'83 GEO. LAT-(N) 39.830254 LONG-(W) 80.626568
 NAD'83 UTM (M) N. 4,408,984.01 E. 531,954.86
 LANDING POINT/LTP
 NAD'83 S.P.C.(FT) N. 486,571.4 E. 1,652,200.7
 NAD'83 GEO. LAT-(N) 39.830440 LONG-(W) 80.626292
 NAD'83 UTM (M) N. 4,409,004.8 E. 531,978.4
 BOTTOM HOLE
 NAD'83 S.P.C.(FT) N. 476,145.7 E. 1,657,942.3
 NAD'83 GEO. LAT-(N) 39.802016 LONG-(W) 80.605392
 NAD'83 UTM (M) N. 4,405,857.8 E. 533,780.7

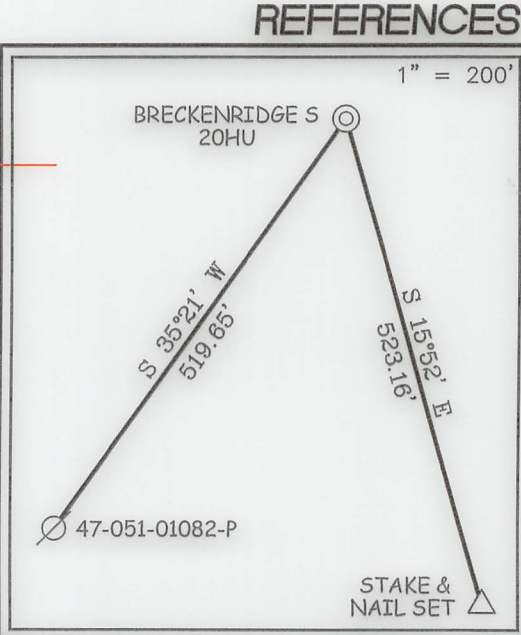
MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
3-18-3.1	CAROL J. EVANS - LIFE	1.173
3-18-6.1	AEP WEST VIRGINIA TRANSMISSION COMPANY	10.175
3-18-7	KEVIN R. & SHELLY JO EVANS	3.134
3-18-14	MOLLY KAY HUBBS COLLINS & OLIVIA SUZANNE HUBBS	21.52
3-19-78	CONSOL MINING COMPANY	30.927
3-19-79	CONSOL MINING COMPANY	10.75
3-19-81	XCL PROCESSING OPERATING LLC	26.52
7-2-2	WILLIAM E. PARSONS, ET UX	56.08
7-2-3	BARBARA & RICKIE FRYE	11.24
7-2-3.2	RICKIE GENE FRYE, ET UX	0.9922
7-2-4.1	BEVERLY MAE DAVIS	1.00
7-2-4.2	DAVID L. FRYE	1.25
7-2-5.1	DAVID L. FRYE & MICHAEL G. SCHLIEPER	2.335
7-2-7	CONSOL MINING COMPANY	12.825
7-2-8	CONSOL MINING COMPANY	3.82
7-7-9	WILLARD JUNIOR EVANS & ROSE MARY EVANS - LIFE	2.214

LEGEND
 AS DRILLED 
 PROPOSED 

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

- 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-20HU 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-21HU,
 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.




P.S. 677 Gregory A. Smith

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE JANUARY 23, 20 24
 REVISED _____
 OPERATORS WELL NO. BRECKENRIDGE S-20HU
 API WELL NO. 47 — 051 — 02399
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 9026P20HUAD.dwg
BRECKENRIDGE S-20HU-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 53.25±

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: 12,109' / TMD: 24,287'

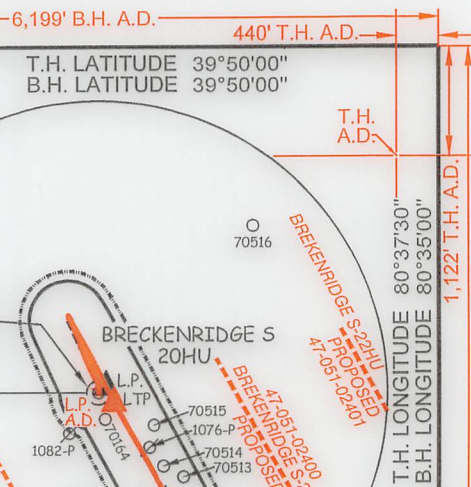
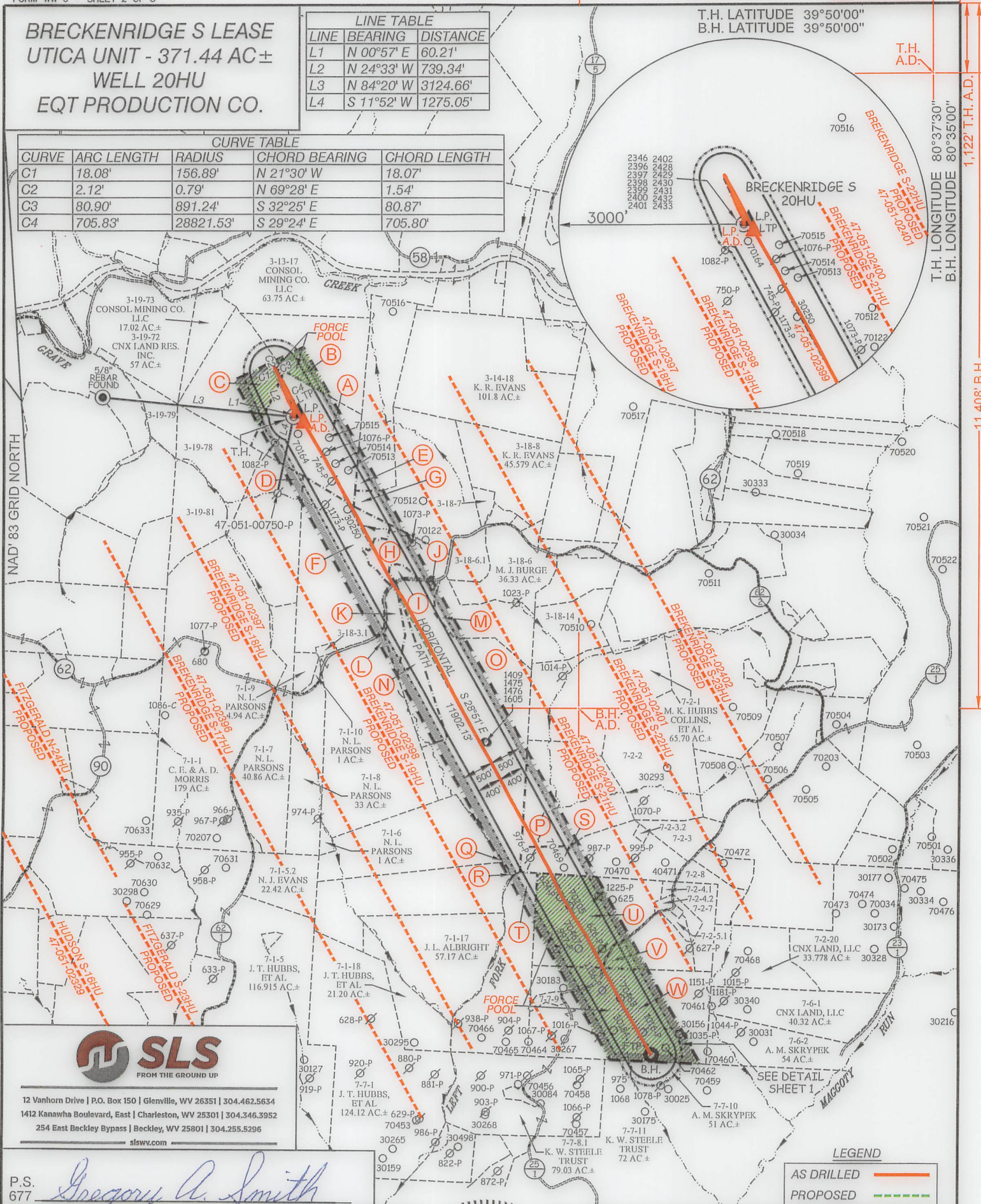
WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT JOSEPH C. MALLOW
 ADDRESS 400 WOODCLIFF DRIVE ADDRESS 427 MIDSTATE DRIVE
CANONSBURG, PA 15317 CLARKSBURG, WV 26301

COUNTY NAME
 PERMIT

**BRECKENRIDGE S LEASE
UTICA UNIT - 371.44 AC±
WELL 20HU
EQT PRODUCTION CO.**

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 00°57' E	60.21'
L2	N 24°33' W	739.34'
L3	N 84°20' W	3124.66'
L4	S 11°52' W	1275.05'

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	18.08'	156.89'	N 21°30' W	18.07'
C2	2.12'	0.79'	N 69°28' E	1.54'
C3	80.90'	891.24'	S 32°25' E	80.87'
C4	705.83'	28821.53'	S 29°24' E	705.80'

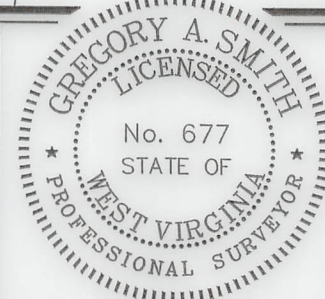


SLS
FROM THE GROUND UP

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
slswv.com

P.S. 677 *Gregory A. Smith*

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)			
NAD'83 S.P.C.(FT)	N. 486,504.51	E. 1,652,122.16	
NAD'83 GEO.	LAT-(N) 39.830254	LONG-(W) 80.626568	
NAD'83 UTM (M)	N. 4,408,984.01	E. 531,954.86	
LANDING POINT			
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NAD'83 GEO.	LAT-(N) 39.802016	LONG-(W) 80.605392	
NAD'83 UTM (M)	N. 4,405,857.8	E. 533,780.7	



(+) 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. 9026P20HUAD.dwg
BRECKENRIDGE S-20HU-REV6
DATE JANUARY 23, 2024
REVISED _____
OPERATORS WELL NO. BRECKENRIDGE S-20HU
API WELL NO. 47-051-02399
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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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	**FORCE POOL**	3-19-74	C	KATHERINE ZOGG OLIVER	663	449
4	10*25525	3-19-77	D	JAN MARIE CREGO, ET AL	939	601
5	10*17925	3-18-1	E	BOUNTY MINERALS LLC	928	393
6	10*17925	3-18-3	F	BOUNTY MINERALS LLC	928	393
7	10*17925	3-18-2	G	BOUNTY MINERALS LLC	928	393
8	10*17925	3-18-3.3	H	BOUNTY MINERALS LLC	928	393
9	10*17925	3-18-3.2	I	BOUNTY MINERALS LLC	928	393
10	10*17925	3-18-38	J	BOUNTY MINERALS LLC	928	393
11	10*17925	3-18-4	K	BOUNTY MINERALS LLC	928	393
12	10*17925	7-1-11	L	BOUNTY MINERALS LLC	928	393
13	10*17925	3-18-5	M	BOUNTY MINERALS LLC	928	393
14	10*17925	7-1-12	N	BOUNTY MINERALS LLC	928	393
15	10*17925	7-1-13	O	BOUNTY MINERALS LLC	928	393
16	10*29980	7-1-14	P	OLIVIA S ALLEN AND TIM C ALLEN	1103	537
17	10*30003	7-1-14	P	MOLLY K COLLINS AND CHAD J COLLINS	1103	541
18	10*17925	7-1-15	Q	BOUNTY MINERALS LLC	928	393
19	10*17925	7-1-16	R	BOUNTY MINERALS LLC	928	393
20	10*25503	7-2-3.1	S	BEVERLY MAE DAVIS, ET AL	910	270
21	10*17925	7-1-19	T	BOUNTY MINERALS LLC	928	393
22	**FORCE POOL**	7-2-4	U	DAVID W MITCHELL, ET AL	1105	1
23	**FORCE POOL**	7-2-5	V	DAVID W MITCHELL, ET AL	1105	1
24	**FORCE POOL**	7-7-9.1	W	CONSTANCE LINT, ET AL	747	86

LEGEND

AS DRILLED	
PROPOSED	

AS DRILLED COORDINATES FOR WELL NO. 20HU		
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17)		
NAD'83 S.P.C.(FT)	N. 486,504.51	E. 1,652,122.16
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NAD'83 UTM (M)	N. 4,408,984.01	E. 531,954.86
LANDING POINT		
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NAD'83 GEO.	LAT-(N) 39.830000	LONG-(W) 80.625987
NAD'83 UTM (M)	N. 4,408,956.1	E. 532,004.7
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 476,145.8	E. 1,657,941.0
NAD'83 GEO.	LAT-(N) 39.802016	LONG-(W) 80.605397
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FILE NO. 9026P20HUAD.dwg
BRECKENRIDGE S-20HU-REV6

DATE JANUARY 23, 20 24

REVISED _____

OPERATORS WELL NO. BRECKENRIDGE S-20HU

API WELL NO. 47 — 051 — 02399
STATE COUNTY PERMIT



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



P.S. 677 *Gregory A. Smith*

COUNTY NAME

PERMIT

WELL OPERATOR EQT PRODUCTION COMPANY
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CANONSBURG, PA 15317

DESIGNATED AGENT JOSEPH C. MALLOW
ADDRESS 427 MIDSTATE DRIVE
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WELL 20HU
EQT PRODUCTION CO.**

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

T.H.
A.D.

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S	RICKIE GENE FRYE	7-2-3.1	37.8578
T	JEAN JAMISON	7-1-19	51.89
U	KENNETH W. STEELE REV. LIVING TRUST	7-2-4	58.08
V	ANTHONY SKRYPEK	7-2-5	20.915
W	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. 486,504.51	E. 1,652,122.16
NAD'83 GEO.	LAT-(N) 39.830254	LONG-(W) 80.626568
NAD'83 UTM (M)	N. 4,408,984.01	E. 531,954.86
LANDING POINT/TP		
NAD'83 S.P.C.(FT)	N. 486,571.4	E. 1,652,200.7
NAD'83 GEO.	LAT-(N) 39.830440	LONG-(W) 80.626292
NAD'83 UTM (M)	N. 4,409,004.8	E. 531,978.4
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 476,145.7	E. 1,657,942.3
NAD'83 GEO.	LAT-(N) 39.802016	LONG-(W) 80.605392
NAD'83 UTM (M)	N. 4,405,857.8	E. 533,780.7

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

MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
3-18-3.1	CAROL J. EVANS - LIFE	1.173
3-18-6.1	ABP WEST VIRGINIA TRANSMISSION COMPANY	10.175
3-18-7	KEVIN R. & SHELLY JO EVANS	3.134
3-18-14	MOLLY KAY HUBBS COLLINS & OLIVIA SUZANNE HUBBS	21.52
3-19-78	CONSOL MINING COMPANY	30.927
3-19-79	CONSOL MINING COMPANY	10.75
3-19-81	XCL PROCESSING OPERATING LLC	26.52
7-2-2	WILLIAM E. PARSONS, ET UX	56.08
7-2-3	BARBARA & RICKIE FRYE	11.24
7-2-3.2	RICKIE GENE FRYE, ET UX	0.9922
7-2-4.1	BEVERLY MAE DAVIS	1.00
7-2-4.2	DAVID L. FRYE	1.25
7-2-5.1	DAVID L. FRYE & MICHAEL G. SCHLIEPER	2.335
7-2-7	CONSOL MINING COMPANY	12.825
7-2-8	CONSOL MINING COMPANY	3.82
7-7-9	WILLARD JUNIOR EVANS & ROSE MARY EVANS - LIFE	2.214

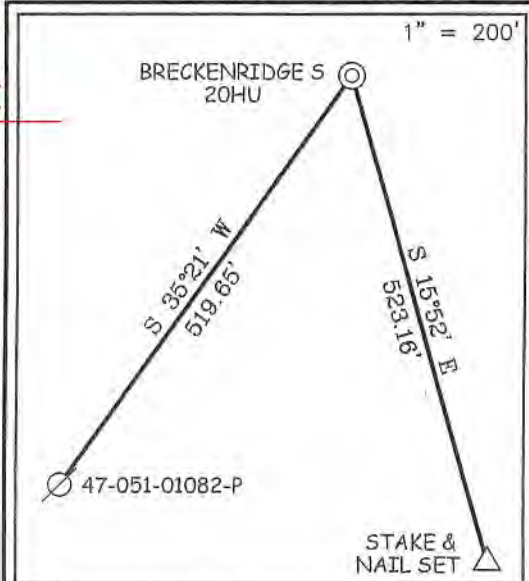
11,408' B.H.

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 525' 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-20HU 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-21HU,
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 | 304.255.6296
slsvv.com



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 Gregory A. Smith

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE JANUARY 23, 2024
REVISED _____
OPERATORS WELL NO. BRECKENRIDGE S-20HU
API WELL NO. 47 - 051 - 02399
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 9026P20HUAD.dwg
BRECKENRIDGE S-20HU-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 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: 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 POINT PLEASANT
ESTIMATED DEPTH TVD: 12,109' / TMD: 24,287'

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

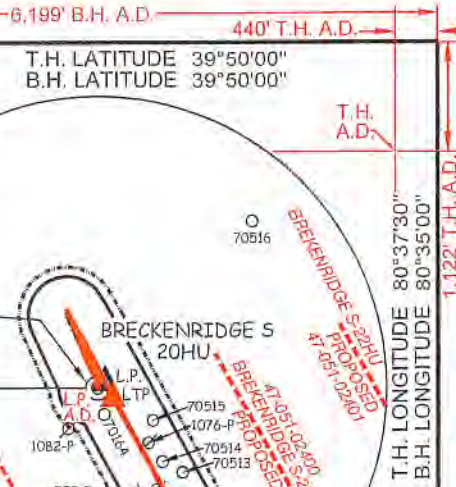
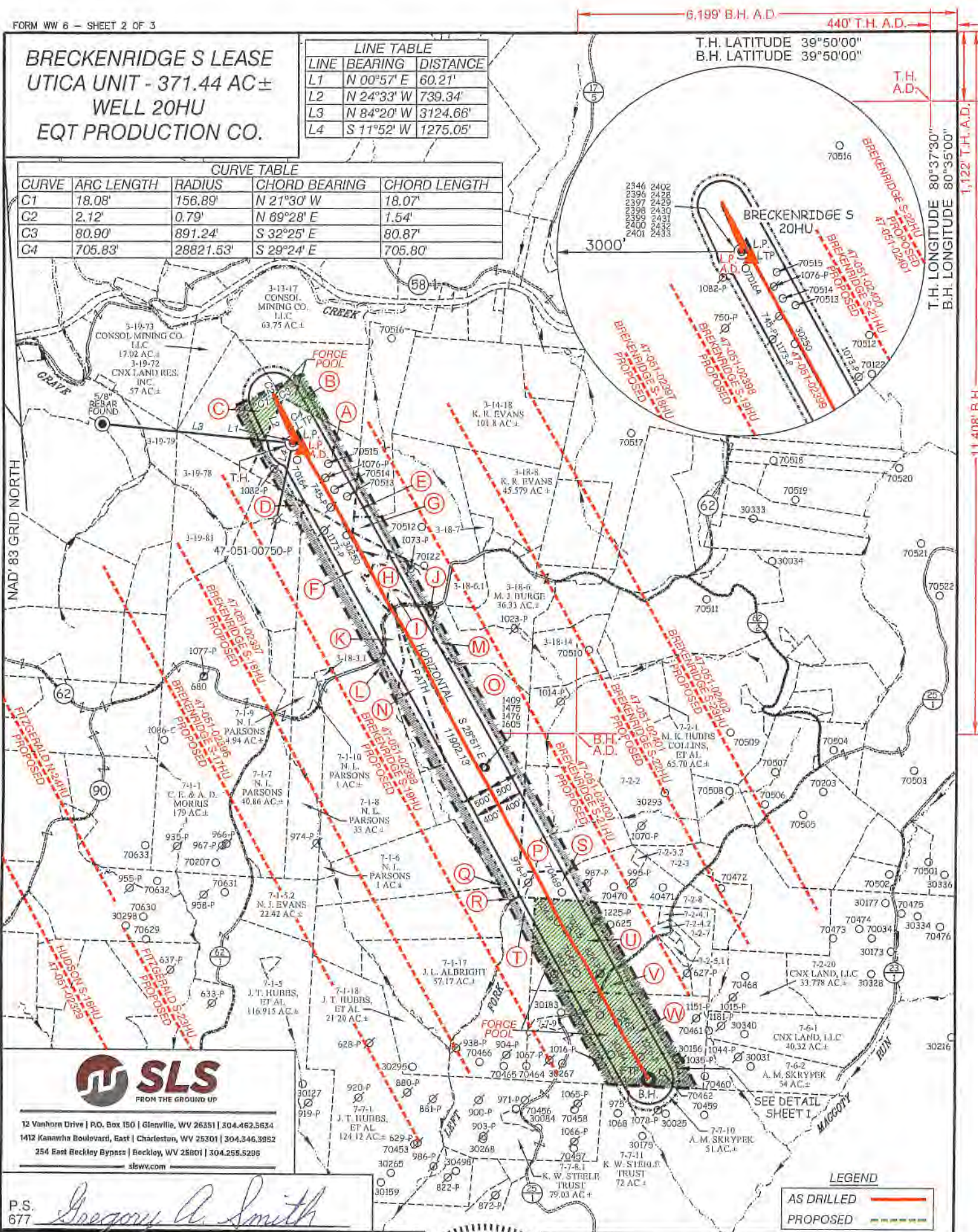
PERMIT

02/23/2024

**BRECKENRIDGE S LEASE
UTICA UNIT - 371.44 AC±
WELL 20HU
EQT PRODUCTION CO.**

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 00°57' E	60.21'
L2	N 24°33' W	739.34'
L3	N 84°20' W	3124.66'
L4	S 11°52' W	1275.05'

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	18.08'	156.89'	N 21°30' W	18.07'
C2	2.12'	0.79'	N 89°28' E	1.54'
C3	80.90'	891.24'	S 32°25' E	80.87'
C4	705.83'	28821.53'	S 29°24' E	705.80'



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
slsvw.com

P.S. 677 *Gregory A. Smith*



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

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)			
NAD'83 S.P.C.(FT)	N. 486,504.51	E. 1,652,122.18	
NAD'83 GEO.	LAT.-(N) 39.830254	LONG.-(W) 80.626558	
NAD'83 UTM (M)	N. 4,408,984.01	E. 531,954.86	
LANDING POINT			
NAD'83 S.P.C.(FT)	N. 486,571.4	E. 1,652,200.7	
NAD'83 GEO.	LAT.-(N) 39.830440	LONG.-(W) 80.626292	
NAD'83 UTM (M)	N. 4,409,004.8	E. 531,978.4	
BOTTOM HOLE			
NAD'83 S.P.C.(FT)	N. 476,145.7	E. 1,657,942.3	
NAD'83 GEO.	LAT.-(N) 39.802016	LONG.-(W) 80.605392	
NAD'83 UTM (M)	N. 4,405,857.8	E. 533,780.7	

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. 9026P20HUAD.dwg
BRECKENRIDGE S-20HU-REV/6
DATE JANUARY 23, 2024
REVISED _____
OPERATORS WELL NO. BRECKENRIDGE S-20HU
API WELL NO. 47 - 051 - 02399
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 - 371.44 AC±
WELL 20HU
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
slwv.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	**FORCE POOL**	3-19-74	C	KATHERINE ZOGG OLIVER	663 449
4	10*25525	3-19-77	D	JAN MARIE CREGO, ET AL	939 601
5	10*17925	3-18-1	E	BOUNTY MINERALS LLC	928 393
6	10*17925	3-18-3	F	BOUNTY MINERALS LLC	928 393
7	10*17925	3-18-2	G	BOUNTY MINERALS LLC	928 393
8	10*17925	3-18-3.3	H	BOUNTY MINERALS LLC	928 393
9	10*17925	3-18-3.2	I	BOUNTY MINERALS LLC	928 393
10	10*17925	3-18-38	J	BOUNTY MINERALS LLC	928 393
11	10*17925	3-18-4	K	BOUNTY MINERALS LLC	928 393
12	10*17925	7-1-11	L	BOUNTY MINERALS LLC	928 393
13	10*17925	3-18-5	M	BOUNTY MINERALS LLC	928 393
14	10*17925	7-1-12	N	BOUNTY MINERALS LLC	928 393
15	10*17925	7-1-13	O	BOUNTY MINERALS LLC	928 393
16	10*29980	7-1-14	P	OLIVIA S ALLEN AND TIM CALLEN	1103 537
17	10*30003	7-1-14	P	MOLLY K COLLINS AND CHAD J COLLINS	1103 541
18	10*17925	7-1-15	Q	BOUNTY MINERALS LLC	928 393
19	10*17925	7-1-16	R	BOUNTY MINERALS LLC	928 393
20	10*25503	7-2-3.1	S	BEVERLY MAE DAVIS, ET AL	910 270
21	10*17925	7-1-19	T	BOUNTY MINERALS LLC	928 393
22	**FORCE POOL**	7-2-4	U	DAVID W MITCHELL, ET AL	1105 1
23	**FORCE POOL**	7-2-5	V	DAVID W MITCHELL, ET AL	1105 1
24	**FORCE POOL**	7-7-9.1	W	CONSTANCE LINT, ET AL	747 86

LEGEND



**AS DRILLED COORDINATES
FOR WELL NO. 20HU**

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17)
 NAD'83 S.P.C.(FT) N. 486,804.51 E. 1,852,122.18
 NAD'83 GEO. LAT-(N) 39.830254 LONG-(W) 80.626568
 NAD'83 UTM (M) N. 4,408,984.01 E. 531,954.86
LANDING POINT
 NAD'83 S.P.C.(FT) N. 486,410.0 E. 1,652,284.2
 NAD'83 GEO. LAT-(N) 39.830000 LONG-(W) 80.625987
 NAD'83 UTM (M) N. 4,408,956.1 E. 532,004.7
BOTTOM HOLE
 NAD'83 S.P.C.(FT) N. 476,145.8 E. 1,657,941.0
 NAD'83 GEO. LAT-(N) 39.802016 LONG-(W) 80.605397
 NAD'83 UTM (M) N. 4,405,857.8 E. 533,780.4

FILE NO. 9026P20HUAD.dwg
BRECKENRIDGE S-20HU-REV6

DATE JANUARY 23, 20 24

REVISED _____

OPERATORS WELL NO. BRECKENRIDGE S-20HU

API WELL NO. 47 — 051 — 02399
 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

COUNTY NAME

PERMIT

**BRECKENRIDGE S LEASE
UTICA UNIT - 371.44 AC±
WELL 20HU
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)

NAD'83 S.P.C.(FT) N. 486,504.51 E. 1,652,122.16
NAD'83 GEO. LAT-(N) 39.830254 LONG-(W) 80.626568
NAD'83 UTM (M) N. 4,408,984.01 E. 531,954.86

LANDING POINT/TP

NAD'83 S.P.C.(FT) N. 486,571.4 E. 1,652,200.7
NAD'83 GEO. LAT-(N) 39.830440 LONG-(W) 80.626292
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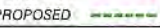
BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 476,145.7 E. 1,657,942.3
NAD'83 GEO. LAT-(N) 39.802016 LONG-(W) 80.605392
NAD'83 UTM (M) N. 4,405,857.8 E. 533,780.7

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

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	3-19-74	44.59
D	SONJA J. STROPE	3-19-77	46.783
E	CONSOL MINING COMPANY LLC	3-18-1	30.00
F	SONJA J. STROPE	3-18-3	74.757
G	KEVIN R. EVANS	3-18-2	67.89
H	DAVID L. & ARIANNE R. ROBINSON	3-18-3-3	16.884
I	DAVID L. & ARIANNE R. ROBINSON	3-18-3-2	1.886
J	OLIVIA SUZANNE HUBBS	3-18-3S	0.433
K	CHARLES JARED STROPE	3-18-4	7.25
L	MOLLY KAY HUBBS COLLINS, ET AL	7-1-11	98.44
M	MOLLY KAY HUBBS COLLINS, ET AL	3-18-5	25.372
N	OLIVIA SUZANNE HUBBS	5-1-12	17.68
O	OLIVIA SUZANNE HUBBS	7-1-13	120.937
P	MOLLY KAY HUBBS COLLINS, ET AL	7-1-14	51.67
Q	MOLLY KAY HUBBS COLLINS, ET AL	7-1-15	57.32
R	MOLLY KAY HUBBS COLLINS, ET AL	7-1-16	54.44
S	RICKIE GENE FRYE	7-2-3-1	37.8578
T	JEAN JAMISON	7-1-19	51.89
U	KENNETH W. STEELE REV. LIVING TRUST	7-2-4	58.08
V	ANTHONY SKRYPEK	7-2-5	29.915
W	JEAN JAMISON	7-2-6-1	97.896

LEGEND

AS DRILLED 
PROPOSED 



MAP/PARCEL	ADJOINING SURFACE OWNER LIST	ACRES
3-18-3-1	CAROL J. EVANS - LIFE	1.173
3-18-6-1	AEP WEST VIRGINIA TRANSMISSION COMPANY	18.175
3-18-7	KEVIN R. & SHELLY JO EVANS	3.134
3-18-14	MOLLY KAY HUBBS COLLINS & OLIVIA SUZANNE HUBBS	21.32
3-19-78	CONSOL MINING COMPANY	39.97
3-19-79	CONSOL MINING COMPANY	19.75
3-19-81	YCL PROCESSING OPERATING LLC	26.92
7-2-2	WILLIAM E. PARSONS, ET UX	56.08
7-2-3	BARBARA & RICKIE FRYE	11.29
7-2-3-2	RICKIE GENE FRYE, ET UX	0.9922
7-2-4-1	BEVERLY MAE DAVIS	1.00
7-2-4-2	DAVID L. FRYE	1.25
7-2-5-1	DAVID L. FRYE & MICHAEL G. SCHLEPPER	2.535
7-2-7	CONSOL MINING COMPANY	12.435
7-3-8	CONSOL MINING COMPANY	3.82
7-7-9	WILLARD JUNIOR EVANS & ROSE MARY EVANS - LIFE	3.714

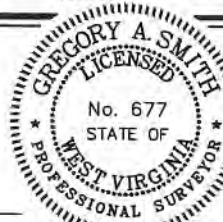
REFERENCES



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-20HU IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF PROPOSED OR EXISTING WELLS:
PROPOSED BRECKENRIDGE S-17HU,
PROPOSED BRECKENRIDGE S-18HU,
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- WELL PLAT UPDATED TO SHOW AS-DRILLED PATH.
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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-20HU
API WELL NO. 47-051-02399
STATE WV COUNTY MARSHALL PERMIT _____

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 9026P20HUAD.dwg
BRECKENRIDGE S-20HU-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: 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 POINT PLEASANT
ESTIMATED DEPTH TVD: 12,109' / TMD: 24,287'

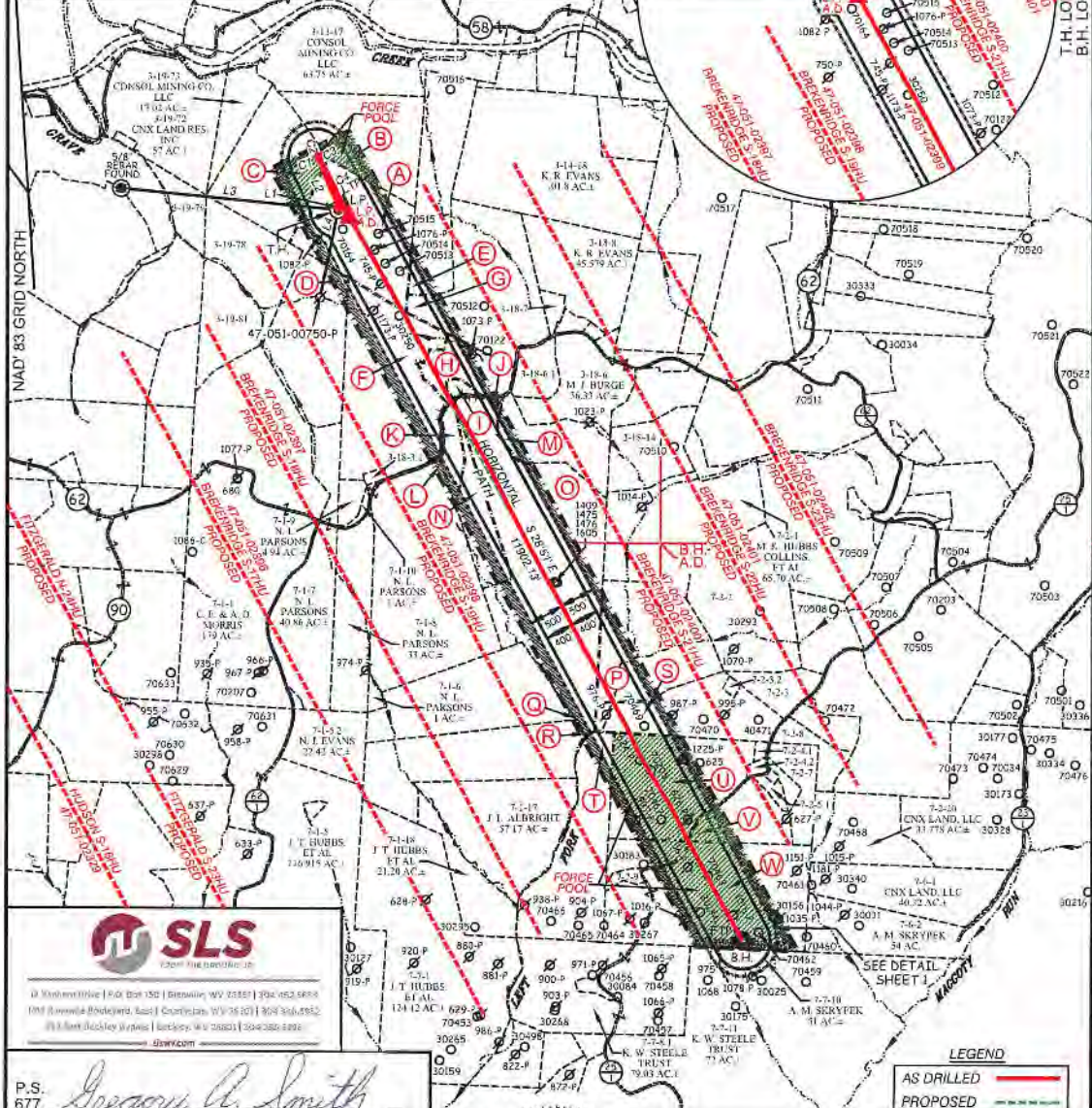
WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT JOSEPH C. MALLOW
ADDRESS 400 WOODCLIFF DRIVE ADDRESS 427 MIDSTATE DRIVE
CANONSBURG, PA 15317 CLARKSBURG, WV 26301

02/23/2024

**BRECKENRIDGE S LEASE
UTICA UNIT - 371.44 AC±
WELL 20HU
EQT PRODUCTION CO.**

LINE	BEARING	DISTANCE
L1	N 00°57' E	60.21'
L2	N 24°33' W	739.34'
L3	N 84°20' W	3124.66'
L4	S 11°52' W	1275.05'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	18.08'	156.89'	N 21°30' W	18.07'
C2	2.72'	0.79'	N 69°28' E	1.54'
C3	80.90'	891.24'	S 32°25' E	80.87'
C4	705.83'	28821.53'	S 29°24' E	705.80'



SLS
SOUTH LEBANON SURVEYING & LAND SERVICES, INC.
100 Westwood Drive, P.O. Box 130, Durbin, WV 26031 | 304-452-8888
1000 Riverside Boulevard, Suite 100, Martinsburg, WV 26001 | 304-366-5852
100 West Ashley Street, Berkeley, WV 26031 | 304-250-2882
www.sls.com

P.S. *Gregory A. Smith*
677

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

NAD83 S.P.C.(FT)	N. 486,504.51	E. 1,652,122.16
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NAD83 UTM (M)	N. 4,406,884.01	E. 531,954.66

LANDING POINT

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BOTTOM HOLE

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NAD83 UTM (M)	N. 4,405,857.8	E. 533,780.7



(+) 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. 9025P20HUAD.dwg
BRECKENRIDGE S-20HU-REV6
DATE JANUARY 23, 2024
REVISED
OPERATORS WELL NO. BRECKENRIDGE S-20HU
API WELL 47 - 051 - 02399
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

**BRECKENRIDGE S LEASE
UTICA UNIT - 371.44 AC±
WELL 20HU
EQT PRODUCTION CO.**



12 Vermont Drive | P.O. Box 150 | Glenville, WV 26031 | 800-482-5634
1822 Kanawha Boulevard, East | Charleston, WV 25301 | 304-348-8850
254 East Prosser Street | Beckley, WV 26201 | 304-251-6266
www.sls.com

NO.	Lease ID	Parcel	Tax	Grantor, Lessor, Etc.	Deed Book/Page
1	10*21241	3-19-26	A	JAMES R WATY, ET AL	729 40
2	**FORCE POOL**	3-19-25	B	KATHERINE ZOGG OLIVER	663 449
3	**FORCE POOL**	3-19-74	C	KATHERINE ZOGG OLIVER	663 449
4	10*25525	3-19-77	D	JAN MARIE CREGO, ET AL	939 601
5	10*17925	3-18-1	E	BOUNTY MINERALS LLC	928 393
6	10*17925	3-18-3	F	BOUNTY MINERALS LLC	928 393
7	10*17925	3-18-2	G	BOUNTY MINERALS LLC	928 393
8	10*17925	3-18-3-3	H	BOUNTY MINERALS LLC	928 393
9	10*17925	3-18-3-2	I	BOUNTY MINERALS LLC	928 393
10	10*17925	3-18-28	J	BOUNTY MINERALS LLC	928 393
11	10*17925	3-18-4	K	BOUNTY MINERALS LLC	928 393
12	10*17925	7-1-11	L	BOUNTY MINERALS LLC	928 393
13	10*17925	3-18-5	M	BOUNTY MINERALS LLC	928 393
14	10*17925	7-1-12	N	BOUNTY MINERALS LLC	928 393
15	10*17925	7-1-13	O	BOUNTY MINERALS LLC	928 393
16	10*29880	7-1-14	P	OLIVIA S ALLEN AND TIM C ALLEN	1103 547
17	10*30003	7-1-14	P	MOLLY K COLLINS AND CHAD J COLLINS	1103 541
18	10*17925	7-1-15	Q	BOUNTY MINERALS LLC	928 393
19	10*17925	7-1-16	R	BOUNTY MINERALS LLC	928 393
20	10*25503	7-2-3-1	S	BEVERLY MAE DAVIS, ET AL	210 270
21	10*17925	7-1-19	T	BOUNTY MINERALS LLC	928 393
22	**FORCE POOL**	7-2-4	U	DAVID W MITCHELL, ET AL	1105 1
23	**FORCE POOL**	7-2-5	V	DAVID W MITCHELL, ET AL	1105 1
24	**FORCE POOL**	7-2-9-1	W	CONSTANCE LINT, ET AL	747 86

LEGEND

AS DRILLED ———
PROPOSED - - - - -

**AS DRILLED COORDINATES
FOR WELL NO. 20HU**

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17)
 NAD83 S.P.C.(FT) N. 486,504.31 E. 1,652,122.16
 NAD83 GEO. LAT.(N) 39.830254 LONG.(W) 80.828568
 NAD83 UTM (M) N. 4,408,984.01 E. 531,994.86
LANDING POINT
 NAD83 S.P.C.(FT) N. 486,410.0 E. 1,652,284.2
 NAD83 GEO. LAT.(N) 39.830000 LONG.(W) 80.825987
 NAD83 UTM (M) N. 4,408,956.1 E. 532,004.7
BOTTOM HOLE
 NAD83 S.P.C.(FT) N. 476,145.8 E. 1,657,941.0
 NAD83 GEO. LAT.(N) 39.802016 LONG.(W) 80.805397
 NAD83 UTM (M) N. 4,405,857.8 E. 533,780.4

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FILE NO. 9026P20HUAD.dwg
BRECKENRIDGE S-20HU-REV6

DATE JANUARY 23, 20 24

REVISED _____

OPERATORS WELL NO. BRECKENRIDGE S-20HU

API WELL NO. 47 — 051 — 02399

NO. STATE COUNTY PERMIT



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

P.S. Gregory A. Smith
677

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 _____

02/23/2024

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:	47-051-02399-00-00
Operator Name:	EQT Production
Well Name and Number:	Breckenridge S-20HU
Latitude:	39.830254
Longitude:	-80.626568
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	12215
Total Base Water Volume (gal)*:	24908898
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	87.17424	None
Sand (Proppant)	EQT	Proppant					
			Silica Substrate	14808-60-7	100.00000	12.64543	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Copolymer of 2-propenamide	Proprietary	30.00000	0.01091	None
Clearal 268	ChemStream	Biocide					
			Non-hazardous substances	Proprietary	80.00000	0.00886	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor					
			Non-hazardous substances	Proprietary	90.00000	0.00753	None
StimSTREAM	ChemStream	Friction					

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FR 9800		Reducer					
			Petroleum Distillate	64742-47-8	20.00000	0.00485	None
Enviro-Syn HCR-7000-WL	STAAR Logistics, LLC	Synthetic Acid					
			Proprietary	Proprietary	20.00000	0.00144	None
Clearal 268	ChemStream	Biocide					
			Glutaraldehyde	111-30-8	20.00000	0.00055	None
Enviro-Syn HCR-7000-WL	STAAR Logistics, LLC	Synthetic Acid					
			Proprietary	Proprietary	10.00000	0.00036	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 (NH4Cl)	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	24170	23995		48 Utica
3	09/13/2023	23971	23796		48 Utica
4	09/14/2023	23772	23596		48 Utica
5	09/15/2023	23573	23397		48 Utica
6	09/15/2023	23373	23198		48 Utica
7	09/15/2023	23174	22999		48 Utica
8	09/16/2023	22975	22800		48 Utica
9	09/16/2023	22776	22600		48 Utica
10	09/17/2023	22577	22401		48 Utica
11	09/17/2023	22377	22202		48 Utica
12	09/17/2023	22178	22003		48 Utica
13	09/17/2023	21979	21804		48 Utica
14	09/18/2023	21780	21604		48 Utica
15	09/18/2023	21581	21405		48 Utica
16	09/18/2023	21381	21206		48 Utica
17	09/19/2023	21182	21007		48 Utica
18	09/19/2023	20983	20808		48 Utica
19	09/20/2023	20784	20608		48 Utica
20	09/20/2023	20585	20409		48 Utica
21	09/20/2023	20385	20210		48 Utica
22	09/20/2023	20186	20011		48 Utica
23	09/21/2023	19987	19812		48 Utica
24	09/21/2023	19788	19612		48 Utica
25	09/21/2023	19589	19413		48 Utica
26	09/22/2023	19389	19214		48 Utica
27	09/22/2023	19190	19015		48 Utica
28	09/22/2023	18991	18816		48 Utica
29	09/23/2023	18792	18616		48 Utica
30	09/23/2023	18593	18417		48 Utica
31	09/23/2023	18393	18218		48 Utica
32	09/24/2023	18194	18019		48 Utica
33	09/24/2023	17995	17820		48 Utica
34	09/24/2023	17796	17620		48 Utica
35	09/24/2023	17597	17421		48 Utica
36	09/25/2023	17397	17222		48 Utica
37	09/25/2023	17198	17023		48 Utica
38	09/26/2023	16999	16824		48 Utica
39	09/26/2023	16800	16624		48 Utica
40	09/27/2023	16601	16425		48 Utica
41	09/28/2023	16401	16226		48 Utica
42	09/28/2023	16202	16027		48 Utica
43	09/30/2023	16003	15828		48 Utica
44	09/30/2023	15804	15628		48 Utica
45	09/30/2023	15605	15429		48 Utica
46	10/01/2023	15405	15230		48 Utica
47	10/01/2023	15206	15031		48 Utica

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48 10/02/2023	15007	14832	48 Utica
49 10/03/2023	14808	14632	48 Utica
50 10/03/2023	14609	14433	48 Utica
51 10/04/2023	14409	14234	48 Utica
52 10/05/2023	14210	14035	48 Utica
53 10/05/2023	14011	13836	48 Utica
54 10/05/2023	13812	13636	48 Utica
55 10/06/2023	13613	13437	48 Utica
56 10/06/2023	13413	13238	48 Utica
57 10/06/2023	13214	13039	48 Utica
58 10/08/2023	13015	12840	48 Utica
59 10/08/2023	12816	12640	48 Utica
60 10/09/2023	12617	12441	48 Utica
61 10/09/2023	12417	12267	42 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	76		11390	7731 7081	200572		3859 Sand	100 MESH; 40/70;
09/13/2023	2	86		11676	9468 7208	500490		9434 Sand	100 MESH; 40/70;
09/14/2023	3	85		11641	8345 7571	500201		9468 Sand	100 MESH; 40/70;
09/15/2023	4	89		12254	8466 7562	500280		9486 Sand	100 MESH; 40/70;
09/15/2023	5	71		10951	9254 7239	500204		9649 Sand	100 MESH; 40/70;
09/15/2023	6	92		12366	8604 7745	500423		9499 Sand	100 MESH; 40/70;
09/15/2023	7	94		12409	9699 7478	500110		9499 Sand	100 MESH; 40/70;
09/16/2023	8	94		12397	8584 7673	500256		9427 Sand	100 MESH; 40/70;
09/17/2023	9	93		12347	8680 7938	500162		12041 Sand	100 MESH; 40/70;
09/17/2023	10	93		12401	7868 7512	500421		9572 Sand	100 MESH; 40/70;
09/17/2023	11	94		12388	8609 7667	500362		9458 Sand	100 MESH; 40/70;
09/17/2023	12	96		12366	8759 7867	500425		9464 Sand	100 MESH; 40/70;
09/18/2023	13	94		12346	8434 7382	500241		9667 Sand	100 MESH; 40/70;
09/18/2023	14	98		12347	8453 7645	500269		9428 Sand	100 MESH; 40/70;
09/18/2023	15	97		12306	8171 7324	500407		9502 Sand	100 MESH; 40/70;
09/19/2023	16	90		12006	8894 7357	500224		9428 Sand	100 MESH; 40/70;
09/19/2023	17	91		12198	8328 7450	500282		9447 Sand	100 MESH; 40/70;
09/20/2023	18	89		11968	9884 7622	500274		9448 Sand	100 MESH; 40/70;
09/20/2023	19	91		11809	8351 7430	500290		9458 Sand	100 MESH; 40/70;
09/20/2023	20	90		11961	8663 7764	500390		9450 Sand	100 MESH; 40/70;
09/20/2023	21	90		11950	8780 7708	500200		9451 Sand	100 MESH; 40/70;
09/21/2023	22	90		11946	8998 7628	500001		9456 Sand	100 MESH; 40/70;
09/21/2023	23	90		11920	9133 7902	500093		9456 Sand	100 MESH; 40/70;
09/22/2023	24	90		11918	9142 8213	500138		9462 Sand	100 MESH; 40/70;
09/22/2023	25	90		11730	10154 8051	500114		9454 Sand	100 MESH; 40/70;
09/22/2023	26	90		11811	9925 8358	500087		9462 Sand	100 MESH; 40/70;
09/22/2023	27	90		11687	9104 8375	500035		9456 Sand	100 MESH; 40/70;
09/23/2023	28	90		11743	8069 7744	500254		9458 Sand	100 MESH; 40/70;
09/23/2023	29	91		11792	9555 7839	500119		9450 Sand	100 MESH; 40/70;
09/24/2023	30	90		11687	9394 7807	500192		9454 Sand	100 MESH; 40/70;
09/24/2023	31	89		11709	8781 7873	500084		9473 Sand	100 MESH; 40/70;
09/24/2023	32	90		11607	9651 7678	500070		9451 Sand	100 MESH; 40/70;
09/24/2023	33	90		11689	8863 7430	500089		9500 Sand	100 MESH; 40/70;
09/25/2023	34	90		11290	8707 7672	500166		9454 Sand	100 MESH; 40/70;
09/25/2023	35	90		11525	9118 7508	500059		9454 Sand	100 MESH; 40/70;
09/25/2023	36	90		11293	8196 7635	500053		9448 Sand	100 MESH; 40/70;
09/26/2023	37	90		11513	7989 7442	500035		9471 Sand	100 MESH; 40/70;
09/27/2023	38	90		11240	9073 8289	499926		9483 Sand	100 MESH; 40/70;
09/27/2023	39	90		11483	10203 7898	500044		9481 Sand	100 MESH; 40/70;
09/28/2023	40	89		11350	9745 8355	500162		9483 Sand	100 MESH; 40/70;
09/28/2023	41	90		10835	10002 8227	500421		9491 Sand	100 MESH; 40/70;
09/30/2023	42	89		11325	9191 8342	500379		9488 Sand	100 MESH; 40/70;
09/30/2023	43	90		11173	9253 8213	500354		9486 Sand	100 MESH; 40/70;
09/30/2023	44	90		11240	9346 8089	500007		9478 Sand	100 MESH; 40/70;
10/01/2023	45	88		11210	9820 7671	500355		9493 Sand	100 MESH; 40/70;
10/02/2023	46	88		11152	8852 8056	500220		9473 Sand	100 MESH; 40/70;
10/02/2023	47	88		11224	10026 7812	500556		9487 Sand	100 MESH; 40/70;
10/03/2023	48	88		11265	10020 7619	500172		9474 Sand	100 MESH; 40/70;
10/04/2023	49	88		11305	10470 7953	499946		9480 Sand	100 MESH; 40/70;
10/04/2023	50	88		10917	9144 7810	500576		9517 Sand	100 MESH; 40/70;
10/05/2023	51	88		11085	9073 7683	499735		9489 Sand	100 MESH; 40/70;
10/05/2023	52	88		10872	8469 7969	500317		9488 Sand	100 MESH; 40/70;
10/06/2023	53	88		11245	7816 7410	502236		9480 Sand	100 MESH; 40/70;
10/06/2023	54	88		11134	9319 7595	500258		9476 Sand	100 MESH; 40/70;
10/06/2023	55	88		10916	9445 8035	500423		9490 Sand	100 MESH; 40/70;
10/06/2023	56	88		11035	8653 7725	500405		9502 Sand	100 MESH; 40/70;
10/08/2023	57	88		11277	9757 7500	500134		9479 Sand	100 MESH; 40/70;
10/08/2023	58	88		10656	8974 7911	500249		9520 Sand	100 MESH; 40/70;
10/09/2023	59	90		11056	10349 6822	500094		9474 Sand	100 MESH; 40/70;

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10/10/2023
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60
61

91
90

10889
10647

9348 7553
9556 7480

500156
437508

9474 Sand
8333 Sand

100 MESH; 40/70;
100 MESH; 40/70;

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