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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Friday, March 4, 2022  
WELL WORK PERMIT  
Horizontal / New Drill

MOUNTAIN V OIL & GAS, INC.  
POST OFFICE BOX 470  
BRIDGEPORT, WV 263300000

Re: Permit approval for REED / WELL 1H WVO470  
47-021-05796-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

A handwritten signature in blue ink, appearing to read 'James A. Martin', is positioned above the printed name and title.

James A. Martin  
Chief

Operator's Well Number: REED / WELL 1H WVO470  
Farm Name: LILLIAN ONIDEE NUTTER  
U.S. WELL NUMBER: 47-021-05796-00-00  
Horizontal New Drill  
Date Issued: 3/4/2022

# PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

## CONDITIONS

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1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.
7. Well work activities shall not constitute a hazard to the safety of persons.
8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to [DEPOOGNotify@wv.gov](mailto:DEPOOGNotify@wv.gov) within 30 days of commencement of drilling.

03/11/2022

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

1) Well Operator: Mountain V Oil and Gas

310020	Gilmer	DeKalb	Tanner
Operator ID	County	District	Quadrangle

2) Operator's Well Number: Reed 1H WV0470 3) Elevation: 786.30' Proposed

4) Well Type: (a) Oil \_\_\_\_\_ or Gas  \_\_\_\_\_  
 (b) If Gas: Production  \_\_\_\_\_ / Underground Storage \_\_\_\_\_  
 Deep \_\_\_\_\_ / Shallow  \_\_\_\_\_

5) Proposed Target Formation(s): Weir Proposed Target Depth: 2000'

6) Proposed Total Depth: 2050' Feet Formation at Proposed Total Depth: Weir

7) Approximate fresh water strata depths: 60', 116'

8) Approximate salt water depths: N/A

9) Approximate coal seam depths: N/A

10) Approximate void depths, (coal, Karst, other): N/A

11) Does land contain coal seams tributary to active mine? N/A

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)

See attached Detailed Plan

*SDW*  
*1/25/2022*

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE	INTERVALS	CEMENT
	Size	Grade	Weight per ft			
Conductor	15"	J		42'	42'	
Fresh Water	11-3/4"	J	42#	250'	250'	CTS +20%
Coal						
Intermediate	8-5/8"	J	24#	2200'	2200'	CTS +20%
Production	4-1/2"	J	11.6# N80	7542'	7542'	
Tubing						
Liners						

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Packers: Kind: \_\_\_\_\_  
 Sizes: \_\_\_\_\_  
 Depths Set \_\_\_\_\_

WV Department of  
Environmental Protection

03/11/2022

## Addendum to WW-2B

Reed #1H WV0470 API 47-021-05796H

Elev 786'

1. Construct Drilling Location
2. Drill a 17-1/2" hole to approximately 42'.
3. Run approximately 42' of 15" casing and fill around outside of casing with cuttings.
4. Drill a 13-7/8" hole to approximately 250'.
5. Run approximately 250' of 11-3/4" casing.
6. Cement the 11-3/4" casing back to surface.
7. Drill an 11" hole, building curve to landing point at the approximate depth of 2,200' MD.
8. Run approximately 2,200' MD of 8-5/8" casing at landing point.
9. Cement the 8-5/8" casing back to surface.
10. Drill a 7-7/8" hole horizontally to the estimated measured depth of approximately 7,542'.
11. Run approximately 7,542' of 4-1/2" casing.
12. Set completion plugs and perforate at specified intervals and frac the Weir formation.  
Total water used during the frac is estimated to be approximately 36,000 barrels of water.
13. Reclaim the drilling location.

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4702105796H

# Mountain V Oil & Gas, Inc.

Gilmer County, WV (NAD 83)

Reed

Reed #1H

OH

Plan: Prelim A - Reed #1H

## Standard Planning Report

13 January, 2022

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Pro Directional  
Planning Report

<b>Database:</b>	WellPlanner1	<b>Local Co-ordinate Reference:</b>	Well Reed #1H
<b>Company:</b>	Mountain V Oil & Gas, Inc.	<b>TVD Reference:</b>	785+10=KB @ 795.00usft
<b>Project:</b>	Gilmer County, WV (NAD 83)	<b>MD Reference:</b>	785+10=KB @ 795.00usft
<b>Site:</b>	Reed	<b>North Reference:</b>	Grid
<b>Well:</b>	Reed #1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Prelim A - Reed #1H		

<b>Project</b>	Gilmer County, WV (NAD 83)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	West Virginia Southern Zone		

<b>Site</b>	Reed				
<b>Site Position:</b>		<b>Northing:</b>	711,968.69 usft	<b>Latitude:</b>	38.955098
<b>From:</b>	Map	<b>Easting:</b>	1,996,444.33 usft	<b>Longitude:</b>	-80.901740
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	0.06 "

<b>Well</b>	Reed #1H					
<b>Well Position</b>	+N-S	0.00 usft	<b>Northing:</b>	711,968.69 usft	<b>Latitude:</b>	38.955098
	+E-W	0.00 usft	<b>Easting:</b>	1,996,444.33 usft	<b>Longitude:</b>	-80.901740
<b>Position Uncertainty</b>	0.00 usft		<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	785.00 usft

<b>Wellbore</b>	OH				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	1/10/2022	-7.77	65.82	51,128.90

<b>Design</b>	Prelim A - Reed #1H				
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<b>Audit Notes:</b>					
<b>Version:</b>		<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N-S (usft)</b>	<b>+E-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	151.33	

Plan Survey Tool Program	Date	1/13/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	7,541.41	Prelim A - Reed #1H (OH)	MWD MWD - Standard - Professic

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<b>Project:</b>	Gilmer County, WV (NAD 83)	<b>MD Reference:</b>	785+10=KB @ 795.00usft
<b>Site:</b>	Reed	<b>North Reference:</b>	Grid
<b>Well:</b>	Reed #1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Prelim A - Reed #1H		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1.196.38	0.00	0.00	1,196.38	0.00	0.00	0.00	0.00	0.00	0.00	
2.196.38	90.00	199.30	1,833.00	-600.84	-210.41	9.00	9.00	0.00	199.30	
3.382.38	89.94	140.00	1,833.68	-1,716.16	-6.72	5.00	-0.01	-5.00	-90.07	
3.740.62	89.94	147.16	1,834.06	-2,004.26	205.82	2.00	0.00	2.00	90.01	
4.529.89	89.94	147.16	1,835.00	-2,751.45	688.00	0.00	0.00	0.00	0.00	Pt 2 (Reed #1H)
4.869.34	90.67	151.90	1,833.73	-2,957.77	609.38	2.00	0.30	1.98	81.27	
5.520.91	90.67	151.90	1,825.00	-3,620.70	1,163.38	0.00	0.00	0.00	0.00	Pt 3 (Reed #1H)
5.649.48	90.80	151.34	1,824.63	-3,645.83	1,176.95	2.00	0.49	-1.94	-75.96	
6.335.63	90.80	151.34	1,815.00	-4,247.88	1,505.96	0.00	0.00	0.00	0.00	Pt 4 (Reed #1H)
6.354.69	90.42	151.31	1,814.80	-4,264.60	1,515.11	2.00	-1.99	-0.16	-175.55	
7.542.15	90.42	151.31	1,806.00	-5,306.29	2,085.07	0.00	0.00	0.00	0.00	BHL (Reed #1H)

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Pro Directional  
Planning Report

47021057 938H

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WV Department of  
Environmental Protection

<b>Database:</b>	WellPlanner1	<b>Local Co-ordinate Reference:</b>	Well Reed #1H
<b>Company:</b>	Mountain V Oil & Gas, Inc.	<b>TVD Reference:</b>	785+10=KB @ 795.00usft
<b>Project:</b>	Gilmer County, WV (NAD 83)	<b>MD Reference:</b>	785+10=KB @ 795.00usft
<b>Site:</b>	Reed	<b>North Reference:</b>	Grid
<b>Well:</b>	Reed #1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Prelim A - Reed #1H		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,196.38	0.00	0.00	1,196.38	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.33	199.30	1,200.00	-0.01	0.00	0.01	9.00	9.00	0.00
1,250.00	4.83	199.30	1,249.94	-2.13	-0.75	1.51	9.00	9.00	0.00
1,300.00	9.33	199.30	1,299.54	-7.94	-2.78	5.63	9.00	9.00	0.00
1,350.00	13.83	199.30	1,348.51	-17.41	-6.10	12.35	9.00	9.00	0.00
1,400.00	18.33	199.30	1,396.55	-30.47	-10.67	21.62	9.00	9.00	0.00
1,446.38	22.50	199.30	1,440.00	-45.73	-16.02	32.44	9.00	9.00	0.00
<b>Little Lime</b>									
1,450.00	22.83	199.30	1,443.34	-47.05	-16.48	33.38	9.00	9.00	0.00
1,500.00	27.33	199.30	1,488.62	-67.05	-23.48	47.56	9.00	9.00	0.00
1,507.20	27.97	199.30	1,495.00	-70.20	-24.58	49.80	9.00	9.00	0.00
<b>Big Lime</b>									
1,550.00	31.83	199.30	1,532.09	-90.33	-31.63	64.08	9.00	9.00	0.00
1,567.70	33.42	199.30	1,547.00	-99.34	-34.79	70.47	9.00	9.00	0.00
<b>Big Injun</b>									
1,600.00	36.33	199.30	1,573.50	-116.77	-40.89	82.83	9.00	9.00	0.00
1,650.00	40.83	199.30	1,612.58	-146.18	-51.19	103.70	9.00	9.00	0.00
1,700.00	45.33	199.30	1,649.09	-178.41	-62.48	126.56	9.00	9.00	0.00
1,750.00	49.83	199.30	1,682.81	-213.23	-74.67	151.26	9.00	9.00	0.00
1,800.00	54.33	199.30	1,713.54	-250.45	-87.70	177.66	9.00	9.00	0.00
1,850.00	58.83	199.30	1,741.07	-289.82	-101.49	205.60	9.00	9.00	0.00
1,900.00	63.33	199.30	1,765.25	-331.11	-115.95	234.89	9.00	9.00	0.00
1,915.42	64.71	199.30	1,772.00	-344.19	-120.53	244.17	9.00	9.00	0.00
<b>Weir</b>									
1,950.00	67.83	199.30	1,785.92	-374.07	-131.00	265.36	9.00	9.00	0.00
2,000.00	72.33	199.30	1,802.95	-418.42	-146.53	296.82	9.00	9.00	0.00
2,050.00	76.83	199.30	1,816.25	-463.90	-162.46	329.09	9.00	9.00	0.00
2,072.58	78.86	199.30	1,821.00	-484.73	-169.75	343.86	9.00	9.00	0.00
<b>Weir Target</b>									
2,100.00	81.33	199.30	1,825.72	-510.23	-178.68	361.95	9.00	9.00	0.00
2,150.00	85.83	199.30	1,831.31	-557.11	-195.10	395.20	9.00	9.00	0.00
2,196.38	90.00	199.30	1,833.00	-600.84	-210.41	425.23	9.00	9.00	0.00
2,200.00	90.00	199.12	1,833.00	-604.26	-211.60	428.66	5.00	-0.01	-5.00
2,300.00	89.99	194.12	1,833.01	-700.05	-240.19	498.99	5.00	-0.01	-5.00
2,400.00	89.99	189.12	1,833.02	-797.97	-260.33	575.24	5.00	-0.01	-5.00
2,500.00	89.98	184.12	1,833.05	-897.27	-271.85	656.84	5.00	-0.01	-5.00
2,600.00	89.98	179.12	1,833.09	-997.20	-274.68	743.18	5.00	-0.01	-5.00
2,700.00	89.97	174.12	1,833.13	-1,097.00	-268.78	833.55	5.00	-0.01	-5.00
2,800.00	89.96	169.12	1,833.19	-1,195.90	-254.21	927.32	5.00	-0.01	-5.00
2,900.00	89.96	164.12	1,833.25	-1,293.15	-231.07	1,023.75	5.00	-0.01	-5.00
3,000.00	89.95	159.12	1,833.33	-1,388.02	-199.55	1,122.11	5.00	0.00	-5.00
3,100.00	89.95	154.12	1,833.41	-1,479.78	-159.88	1,221.65	5.00	0.00	-5.00



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Wellbore:	OH		
Design:	Prelim A - Reed #1H		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,200.00	89.95	149.12	1,833.50	-1,567.73	-112.36	1,321.62	5.00	0.00	-5.00
3,300.00	89.94	144.12	1,833.60	-1,651.21	-57.36	1,421.25	5.00	0.00	-5.00
3,382.38	89.94	140.00	1,833.68	-1,716.16	-6.72	1,502.54	5.00	0.00	-5.00
3,400.00	89.94	140.35	1,833.70	-1,729.70	4.57	1,519.82	2.00	0.00	2.00
3,500.00	89.94	142.35	1,833.81	-1,807.79	67.02	1,618.30	2.00	0.00	2.00
3,600.00	89.94	144.35	1,833.91	-1,888.02	126.70	1,717.33	2.00	0.00	2.00
3,700.00	89.94	146.35	1,834.02	-1,970.28	183.55	1,816.78	2.00	0.00	2.00
3,740.62	89.94	147.16	1,834.06	-2,004.26	205.82	1,857.27	2.00	0.00	2.00
3,800.00	89.94	147.16	1,834.12	-2,054.15	238.02	1,916.50	0.00	0.00	0.00
3,900.00	89.94	147.16	1,834.23	-2,138.17	292.24	2,016.23	0.00	0.00	0.00
4,000.00	89.94	147.16	1,834.33	-2,222.20	346.46	2,115.97	0.00	0.00	0.00
4,100.00	89.94	147.16	1,834.44	-2,306.22	400.68	2,215.70	0.00	0.00	0.00
4,200.00	89.94	147.16	1,834.55	-2,390.24	454.90	2,315.44	0.00	0.00	0.00
4,300.00	89.94	147.16	1,834.65	-2,474.27	509.13	2,415.18	0.00	0.00	0.00
4,400.00	89.94	147.16	1,834.76	-2,558.29	563.35	2,514.91	0.00	0.00	0.00
4,500.00	89.94	147.16	1,834.86	-2,642.31	617.57	2,614.65	0.00	0.00	0.00
4,600.00	89.94	147.16	1,834.97	-2,726.34	671.79	2,714.38	0.00	0.00	0.00
4,629.89	89.94	147.16	1,835.00	-2,751.45	688.00	2,744.20	0.00	0.00	0.00
4,700.00	90.15	148.55	1,834.94	-2,810.81	725.30	2,814.17	2.00	0.30	1.98
4,800.00	90.46	150.53	1,834.41	-2,897.00	775.99	2,914.12	2.00	0.30	1.98
4,869.34	90.67	151.90	1,833.73	-2,957.77	809.38	2,983.45	2.00	0.30	1.98
4,900.00	90.67	151.90	1,833.38	-2,984.82	823.82	3,014.11	0.00	0.00	0.00
5,000.00	90.67	151.90	1,832.22	-3,073.02	870.92	3,114.10	0.00	0.00	0.00
5,100.00	90.67	151.90	1,831.05	-3,161.23	918.02	3,214.09	0.00	0.00	0.00
5,200.00	90.67	151.90	1,829.89	-3,249.43	965.12	3,314.07	0.00	0.00	0.00
5,300.00	90.67	151.90	1,828.73	-3,337.64	1,012.22	3,414.06	0.00	0.00	0.00
5,400.00	90.67	151.90	1,827.57	-3,425.84	1,059.32	3,514.05	0.00	0.00	0.00
5,500.00	90.67	151.90	1,826.41	-3,514.05	1,106.42	3,614.04	0.00	0.00	0.00
5,600.00	90.67	151.90	1,825.24	-3,602.25	1,153.53	3,714.03	0.00	0.00	0.00
5,620.91	90.67	151.90	1,825.00	-3,620.70	1,163.38	3,734.94	0.00	0.00	0.00
5,649.48	90.80	151.34	1,824.63	-3,645.83	1,176.95	3,763.50	2.00	0.49	-1.94
5,700.00	90.80	151.34	1,823.92	-3,690.16	1,201.18	3,814.02	0.00	0.00	0.00
5,800.00	90.80	151.34	1,822.52	-3,777.90	1,249.13	3,914.01	0.00	0.00	0.00
5,900.00	90.80	151.34	1,821.12	-3,865.64	1,297.08	4,014.00	0.00	0.00	0.00
6,000.00	90.80	151.34	1,819.71	-3,953.39	1,345.03	4,113.99	0.00	0.00	0.00
6,100.00	90.80	151.34	1,818.31	-4,041.13	1,392.98	4,213.98	0.00	0.00	0.00
6,200.00	90.80	151.34	1,816.90	-4,128.87	1,440.93	4,313.97	0.00	0.00	0.00
6,300.00	90.80	151.34	1,815.50	-4,216.62	1,488.88	4,413.96	0.00	0.00	0.00
6,335.63	90.80	151.34	1,815.00	-4,247.88	1,505.96	4,449.59	0.00	0.00	0.00
6,354.69	90.42	151.31	1,814.80	-4,264.60	1,515.11	4,468.64	2.00	-1.99	-0.16
6,400.00	90.42	151.31	1,814.46	-4,304.35	1,536.85	4,513.95	0.00	0.00	0.00
6,500.00	90.42	151.31	1,813.72	-4,392.07	1,584.85	4,613.95	0.00	0.00	0.00
6,600.00	90.42	151.31	1,812.98	-4,479.80	1,632.85	4,713.95	0.00	0.00	0.00
6,700.00	90.42	151.31	1,812.24	-4,567.52	1,680.85	4,813.94	0.00	0.00	0.00
6,800.00	90.42	151.31	1,811.50	-4,655.25	1,728.85	4,913.94	0.00	0.00	0.00
6,900.00	90.42	151.31	1,810.76	-4,742.97	1,776.85	5,013.94	0.00	0.00	0.00
7,000.00	90.42	151.31	1,810.02	-4,830.70	1,824.85	5,113.94	0.00	0.00	0.00
7,100.00	90.42	151.31	1,809.28	-4,918.42	1,872.85	5,213.93	0.00	0.00	0.00
7,200.00	90.42	151.31	1,808.53	-5,006.14	1,920.84	5,313.93	0.00	0.00	0.00
7,300.00	90.42	151.31	1,807.79	-5,093.87	1,968.84	5,413.93	0.00	0.00	0.00
7,400.00	90.42	151.31	1,807.05	-5,181.59	2,016.84	5,513.93	0.00	0.00	0.00
7,500.00	90.42	151.31	1,806.31	-5,269.32	2,064.84	5,613.92	0.00	0.00	0.00
7,542.15	90.42	151.31	1,806.00	-5,306.29	2,085.07	5,656.07	0.00	0.00	0.00

Pro Directional  
Planning Report

4702105796H

<b>Database:</b>	WellPlanner1	<b>Local Co-ordinate Reference:</b>	Well Reed #1H
<b>Company:</b>	Mountain V Oil & Gas, Inc.	<b>TVD Reference:</b>	785+10=KB @ 795.00usft
<b>Project:</b>	Gilmer County, WV (NAD 83)	<b>MD Reference:</b>	785+10=KB @ 795.00usft
<b>Site:</b>	Reed	<b>North Reference:</b>	Grid
<b>Well:</b>	Reed #1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Prelim A - Reed #1H		

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BHL (Reed #1H) - hit/miss target - Shape - plan hits target center - Point	0.00	1.16	1,806.00	-5,306.29	2,085.07	706,662.40	1,998,529.40	38.940523	-80.894429
PI 4 (Reed #1H) - plan hits target center - Point	0.00	1.16	1,815.00	-4,247.88	1,505.96	707,720.81	1,997,950.30	38.943431	-80.896461
PI 3 (Reed #1H) - plan hits target center - Point	0.00	1.16	1,825.00	-3,620.70	1,163.38	708,347.99	1,997,607.71	38.945154	-80.897663
4720 offset - 330' radi - plan misses target center by 491.20usft at 3453.94usft MD (1833.76 TVD, -1771.55 N, 38.59 E) - Circle (radius 330.00)	0.00	0.00	1,833.00	-2,078.32	-345.04	709,890.37	1,996,099.29	38.949393	-80.902961
LP (Reed #1H) - plan misses target center by 46.08usft at 2513.94usft MD (1833.05 TVD, -911.19 N, -272.77 E) - Point	0.00	1.16	1,833.00	-909.89	-318.83	711,058.80	1,996,125.50	38.952601	-80.902864
PI 1 (Reed #1H) - plan misses target center by 125.92usft at 2991.30usft MD (1833.32 TVD, -1379.88 N, -202.62 E) - Point	0.00	1.16	1,835.00	-1,340.17	-83.13	710,628.51	1,996,361.20	38.951419	-80.902037
PI 2 (Reed #1H) - plan hits target center - Point	0.00	1.16	1,835.00	-2,751.45	688.00	709,217.23	1,997,132.34	38.947542	-80.899331

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,446.38	1,440.00	Little Lime		0.00	
1,507.20	1,495.00	Big Lime		0.00	
1,567.70	1,547.00	Big Injun		0.00	
1,915.42	1,772.00	Weir		0.00	
2,072.58	1,821.00	Weir Target		0.00	

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Office of Oil and Gas  
JAN 27 2022  
WV Division of Environmental Protection

State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: NUTTER, L. ONIDEE ET VIR Operator Well No.: REED A-1A 549

LOCATION: Elevation: 724.00 Quadrangle: TANNER

District: DEKALB County: GILMER  
Latitude: 1490 Feet South of 38 Deg. 57Min. 30 Sec.  
Longitude 7380 Feet West of 80 Deg. 52 Min. 30 Sec.

Company: WACO OIL & GAS CO., INC.  
1297 N. LEWIS ST.  
GLENNVILLE, WV

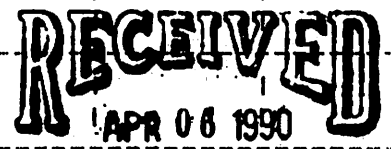
Agent: STEPHEN E. HOLLOWAY

Inspector: CRAIG DUCKWORTH  
Permit Issued: 11/01/88  
Well work Commenced: 01/29/90  
Well work Completed: 02/03/90

Verbal Pluggings  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 6010  
Fresh water depths (ft) \_\_\_\_\_  
60'  
Salt water depths (ft) \_\_\_\_\_

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): None

Size	Casings & Tubings Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	706	706	C. T. S.
4-1/2"		5,943	685 Sks.



OPEN FLOW DATA

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Producing formation Shale, Elk, Alexander, Benson Pay zone depth (ft) See Treatment \_\_\_\_\_  
 Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 1858 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests 4 Hours  
 Static rock Pressure 1590 psig (surface pressure) after 48 Hours  
 See \_\_\_\_\_

Second producing formation Balltown, Riley, Speechly Pay zone depth (ft) Treatment \_\_\_\_\_  
 Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: WACO OIL & GAS CO., INC.

By: Daniel R. Chapman, Geologist

Date: March 29, 1990

03/11/2022

4729

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

1st stage: Devonian Shale (5888-5136) 1000 gal 15% HCL, 40 ton CO<sub>2</sub>, 594 mcf N<sub>2</sub>

2nd stage: Elk, Alexander (4887-4526) 675 gal 15% HCL, 40 ton CO<sub>2</sub>, 837 mcf N<sub>2</sub>

3rd stage: Benson, Riley, Balltown (4269-3663) 675 gal 15% HCL, 40 ton CO<sub>2</sub>, 935 mcf N<sub>2</sub>

4th stage: Balltown, Speechly (3573-2774) 675 gal HCL, 40 ton CO<sub>2</sub>, 971 mcf N<sub>2</sub>

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Office of Oil and Gas

JAN 27 2022

WV Department of  
Environmental Protection

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand, Shale			0	139	1-1/2" stream H <sub>2</sub> O @ 60'
Sand, Shale, Red Rock			139	405	
Sand, Shale			405	1384	
Little Lime			1384	1411	
Blue Monday			1411	1431	
Big Lime			1431	1492	
Big Injun			1492	1583	
Sand, Shale			1583	2760	
Speechly Section			2760	3054	
Shale			3054	3130	
Balltown Section			3130	3775	
Riley Section			3775	4211	
Shale			4211	4261	
Benson			4261	4270	
Shale			4270	4502	
Alexander			4502	4562	
Shale			4562	4705	
Elk Section			4705	4891	
Shale			4891	6010	T. D.

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APR 06 1990

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

7917

WW-2A  
(Rev. 6-14)

1.) Date: 12-23-21  
2.) Operator's Well Number Reed 1H WV0470  
State County Permit  
3.) API Well No.: 47- 021

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:  
(a) Name Lillian Onidee Nutter  
Address 4648 WV Hwy. 5 W  
Glennville, WV 26351  
(b) Name Terrv & Marv Heckert  
Address 167 Tower Dr.  
Glennville, WV 26351  
(c) Name  
Address  
6) Inspector Derek Haught  
Address P.O. Box 85  
Smithville, WV 26178  
Telephone 304-206-7613

5) (a) Coal Operator  
Name N/A  
Address  
(b) Coal Owner(s) with Declaration  
Name None  
Address  
(c) Coal Lessee with Declaration  
Name None  
Address

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WV Department of  
Environmental Protection

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

OR

Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

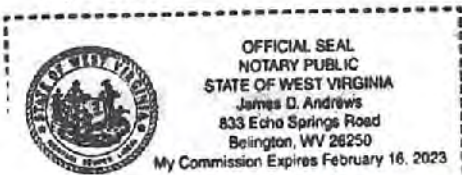
I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties by:

- Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Well Operator Mountain V Oil and Gas  
By: Mike Shaver  
Its: President  
Address: P.O. Box 470  
Bridgeport, WV 26330  
Telephone: 304-842-6320  
Email: smshaver@earthlink.net

Subscribed and sworn before me this 26th day of January, 2022

*[Signature]*

Notary Public

My Commission Expires 2-16-2023

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov)

03/11/2022

U.S. Postal Service™  
**CERTIFIED MAIL™ RECEIPT**  
 (Domestic Mail Only; No Insurance Coverage Provided)  
 For delivery information visit our website at www.usps.com®

**OFFICIAL USE**

Postage	\$ 2.96	Postmark Here <b>JAN 24 2022</b> GLENVILLE WV 26351
Certified Fee	3.75	
Return Receipt Fee (Endorsement Required)	3.05	
Restricted Delivery Fee (Endorsement Required)	—	
Total Postage & Fees	\$ 9.76	

Sent To: **Lillian Onidee Nutter**  
 4648 WV HWY 5 W  
 Glenville, WV 26351

PS Form 3800  
*Recd #1A W0470 Permit*

7009 1680 0001 5845 2722

U.S. Postal Service™  
**CERTIFIED MAIL™ RECEIPT**  
 (Domestic Mail Only; No Insurance Coverage Provided)  
 For delivery information visit our website at www.usps.com®

**OFFICIAL USE**

Postage	\$ 2.76	Postmark Here <b>JAN 25 2022</b> GLENVILLE WV 26351
Certified Fee	3.75	
Return Receipt Fee (Endorsement Required)	3.05	
Restricted Delivery Fee (Endorsement Required)	—	
Total Postage & Fees	\$ 9.56	

Sent To: **Terry & Mary Hecker**  
 161 Tower Dr.  
 Glenville, WV 26351

PS Form 3800  
*Recd #1H W0470 Permit*

7009 1680 0001 5845 2722

47021057964

RECEIVED  
 Office of Oil and Gas  
 JAN 27 2022  
 WV Department of  
 Environmental Protection

03/11/2022

WW-2A Surface Waiver  
(4/16)

**SURFACE OWNER WAIVER**

County 024 Gilmer

Operator

Mountain V Oil & Gas, Inc.

Operator well number

Reed 1H WV0470

**INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A**

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

**WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

**Time Limits and methods for filing comments.** The law requires these materials to be served on or before the date the operator files his Application. You have **FIFTEEN (15) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

**List of Water Testing Laboratories.** The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through \_\_\_ including a work order on Form WW2-B, a survey plat, WW-9, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

*Lillian Dindee Nutter*  
Signature

Company Name N/A  
By \_\_\_\_\_  
Its \_\_\_\_\_ Date \_\_\_\_\_

*Lillian Dindee Nutter*

Print Name

RECEIVED  
Office of Oil and Gas Signature

Date

FEB 1 2022

03/11/2022

WW-2A Surface Waiver  
(4/16)

SURFACE OWNER WAIVER

County 024 Gilmer Operator Mountain V Oil & Gas, Inc.  
Operator well number Reed 1H WV0470

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Department of Environmental Protection  
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- 3) Damage would occur to publicly owned lands or resources;
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I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Terry Heckert  
Signature

Date 1-31-22

Company Name N/A  
By \_\_\_\_\_  
Its \_\_\_\_\_ Date \_\_\_\_\_

Terry Heckert  
Print Name

RECEIVED  
Office of Oil and Gas  
Signature \_\_\_\_\_ Date \_\_\_\_\_

FEB 1 2022

WV Department of  
Environmental Protection

03/11/2022



WW-2B1  
(5-12)

Well No. Reed 1H WV0470

West Virginia Department of Environmental Protection  
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name Fairway Labs  
Sampling Contractor SLS Land & Energy Development

Well Operator Mountain V Oil and Gas  
Address P.O. Box 470  
Bridgeport, WV 26330  
Telephone 304-842-6320

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

\* HECKERT, TERRY J & MARY E.  
167 TOWER DRIVE  
GLENNVILLE, WV 26351

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WV Department of  
Environmental Protection

03/11/2022

4702105796H

22-6  
GAINER ROBERT JACKSON  
PO BOX 12  
GLENVILLE, WV 26351

22-23  
MCCARTNEY JACK & BRENDA  
786 NEWBERNE RD  
COXS MILLS, WV 26342

22-24  
HENDERSON ROY ALAN & DEBORAH LOU  
5022 WV HWY 5 W  
GLENVILLE, WV 26351

22-25  
STOUT DONALD & PAULA  
4944 WV HWY 5 W  
GLENVILLE, WV 26351

22-26  
GROGG CURTIS L & PATRICIA S RIDDLE  
4890 WV HWY 5W  
GLENVILLE, WV 26351

22-27  
RIDDLE CEMETERY  
NO ADDRESS LISTED

22-28  
CUNNINGHAM ROSA BELL ELLYSON  
PO BOX 12  
GLENVILLE, WV 26351

22-29, 29.1  
KANAWHA DRIVE CHURCH TRUSTEES  
RT 77 BOX 7 J  
GLENVILLE, WV 26351

22-31, 33  
MCCUNE JACK DELBERT & ELLEN J  
12410 E MIRABEAU PARKWAY STE 1  
SPOKANE PARKWAY, WA 99216

22-31.2  
KANAWHA DRIVE CHURCH-TRUSTEES  
PO BOX 338  
GLENVILLE, WV 26351

22-34  
GOFF DAVID PAUL & DONNA MARIE  
2461 LAUREL CREEK RD  
TANNER, WV 26137

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22-32.5  
RANDOLPH CRAIG S  
4483 WV HWY 5 W  
GLENVILLE, WV 26351

22-32.1, 32.7  
BASH FREDERICK L JR & PATRICIA K CLEMONS  
4425 WV HWY 5 W  
GLENVILLE, WV 26351

22-32  
STEWART BENJAMIN D & KAYLA B  
4402 WV HWY 5 W  
GLENVILLE, WV 26351

22-32.6  
COLLINS EUGENE W & MARGARET F  
PO BOX 291  
GLENVILLE, WV 26351

22-32.2  
TATMAN CHRISTOPHER ADAM & TAMMY LYNN  
PO BOX 430  
GRANTSVILLE, WV 26147

22-32.3  
JONES JO ANN & SHARIE LYNN ECKENRODE  
3540 DILLONS RUN RD  
CAPON BRIDGE, WV 26711

22-32.4  
HOLLOWAY STEPHEN E C/O WELLS FARGO  
PO BOX 14506  
DES MOINES, IA 50306

22-35  
COLLINS REBECCA J  
63 TANNER HILL RD  
TANNER, WV 26137

22-37  
GARVIN YANG SUN  
1365 LIME POINT ST  
LAS VEGAS, NV 89110

22-39  
HAMM STEPHANIE A F  
PO BOX 430  
GRANTSVILLE, WV 26147

22-38.1  
BENSON NEAL L & RENITA  
37 SENECA DR  
GLENVILLE, WV 26351

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Environmental Protection

03/11/2022

4702105796A

22-36  
DRENNEN TONY R & MARCELLA S  
4234 WV HWY 5 W  
GLENVILLE, WV 26351

22-57  
NUTTER LILLION ONIDEE  
4648 WV HWY 5 W  
GLENVILLE, WV 26351

22-51  
LAY BRADFORD M & BARBARA A  
1912 NW 56 TERR  
OKLAHOMA CITY, OK 73118

17-22  
HECKERT TERRY J & MARY E  
167 TOWER DR  
GLENVILLE, WV 26351

\*\*\*\*\*22-56  
HECKERT TERRY J & MARY E  
167 TOWER DR  
GLENVILLE, WV 26351  
(Requested Sampling)



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JAN 27 2022

WV Department of  
Environmental Protection

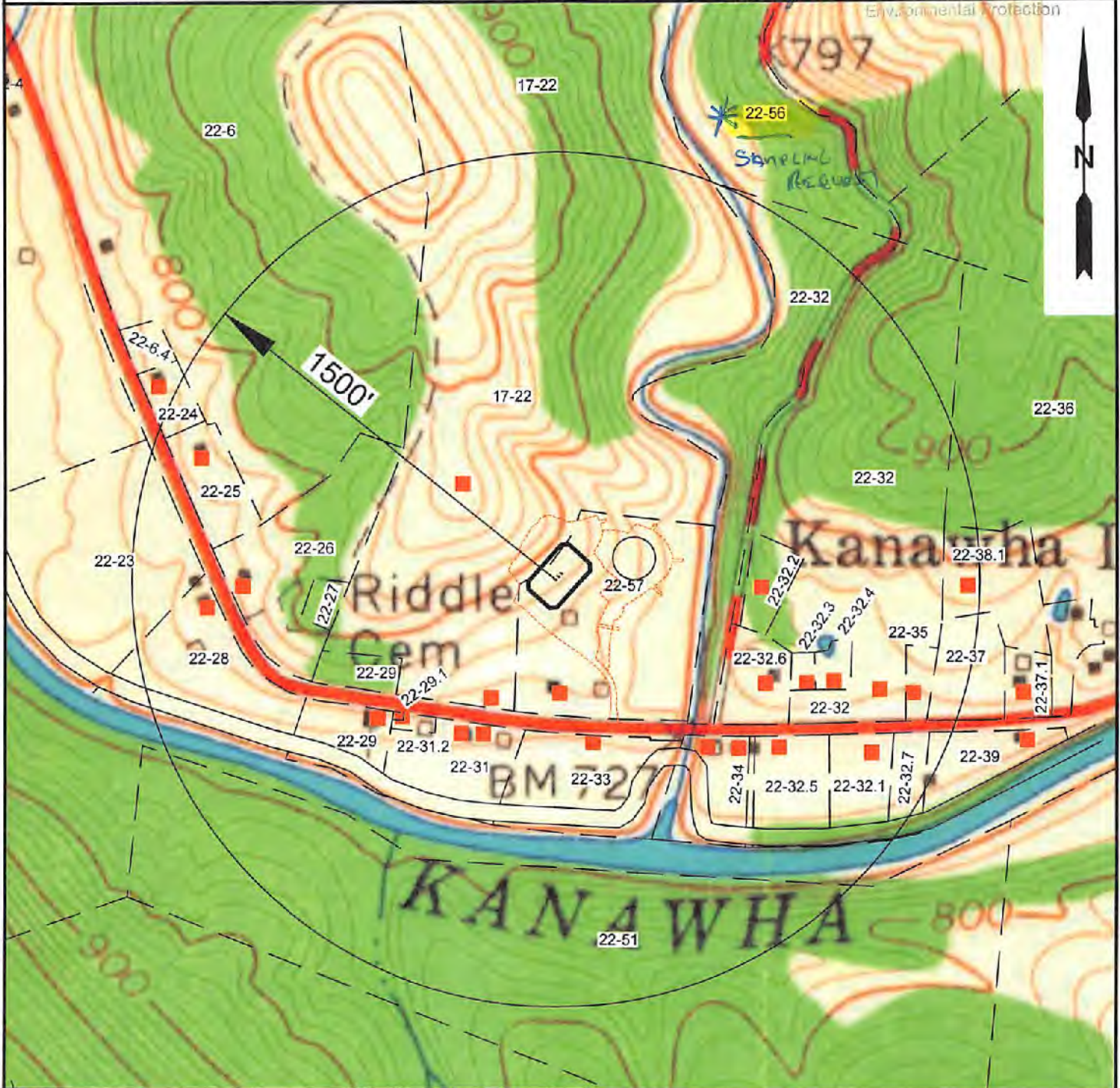
03/11/2022

# PROPOSED REED WELLS 1H-3H

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Office of Oil and Gas

JAN 27 2022

West Virginia Department of  
Environmental Protection



■ = APPARENT RESIDENCES FROM MAPPING



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26331 | 304-462-9634  
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304-346-3952  
254 East Beckley Bypass | Beckley, WV 25801 | 304-255-5296  
slswv.com

TOPO SECTION:		OPERATOR:	
TANNER 7.5'		PREPARED FOR:	
COUNTY	DISTRICT	MOUNTAIN V OIL AND GAS, INC.	
GILMER	DEKALB	P.O. BOX 470 BRIDGEPORT, WV 26330	
DRAWN BY	JOB NO.	DATE	SCALE
C.P.M.	9093	11-08-2021	1" = 500'



03/11/2022

# CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS



2019 9th Ave.  
P.O. Box 1925  
Altoona, PA 16602  
Phone: (814) 946-4306  
Fax: (814) 946-8791

Client Page # 1 of 1

Please print. See back of COC for instructions/terms and conditions.

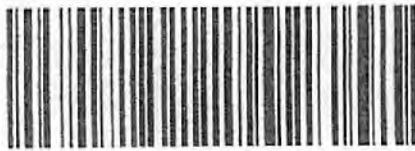
Client Name: <u>SL3</u>		Received on ice? Y N		Reportable to PADEP? Yes <input type="checkbox"/>		Analyses Requested							LAB USE ONLY	
Address: <u>P.O. Box 150 GLENNVILLE, WV 26031</u>		Sample Temp: _____		PWSID # _____		<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SEE ATTACHED ANAL</div> <div> <u>TRITRACER DRUG, RTE 1</u>  <u>CHLORIDE, SODIUM TDS</u>  <u>ALUMINUM, ARSENIC, BARIUM</u>  <u>IRON, MANGANESE, PH</u>  <u>CALCIUM, SULFATE, TDSAS</u>  <u>DISSOLVED METHANE</u>  <u>DISSOLVED ETHANE</u>  <u>DISSOLVED BUTANE</u>  <u>DISSOLVED PROPANE</u>  <u>BACTERIA (TOTAL COLIFORM)</u> </div> </div>							Work Order # _____	
Contact: <u>ADAM WILSON</u>													Attach # _____	
Phone #: <u>304 462 5634</u>													FLI Page # _____ of _____	
Fax #: _____						Tracking # _____								
Project Name: <u>MTV REED</u>		Composite Start		GRAB -or- Composite End		Matrix		# of Containers		Bottle Type/Comments				
Quote/PO #: _____						Solid		Water						
TAT: Normal <input type="checkbox"/> Rush <input type="checkbox"/>		Military or AM/PM required												
Rush TAT subject to pre-approval and surcharge.														
Date Required: ____/____/____														
Sample Description/Location				Start Date		Start Time		End Date		End Time				
<u>WELL 1</u>								<u>12 10</u>		<u>10:00</u>				
Sampled by: <u>[Signature]</u>		Received by: <u>[Signature]</u>		Date		Time		Remarks						
Relinquished by:		Received by:		Date		Time								
Relinquished by:		Received by:		Date		Time								
Relinquished by:		Received by:		Date		Time								

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 WV Department of  
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GLENVILLE, WV 26351

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1912 NW 56 TERR  
OKLAHOMA CITY, OK 73118



PO Box 150  
GLENVILLE, WV 26351

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167 TOWER DR  
GLENVILLE, WV 26351

FRANKLIN  
CLAYTON  
JAN 27 2022  
WV Department of  
Environmental Protection

47021057964



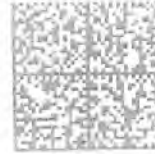
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4234 WV HWY 5 W  
GLENNVILLE, WV 26351



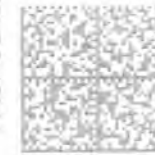
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GLENNVILLE, WV 26351

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COLLINS REBECCA J  
63 TANNER HILL RD  
TANNER, WV 26137



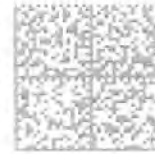
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GARVIN YANG SUN  
1365 LIME POINT ST  
LAS VEGAS, NV 89110

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47021057961



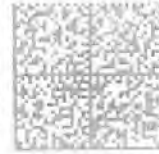
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0001207859 NOV 11 2021  
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3540 DILLONS RUN RD  
CAPON BRIDGE, WV 26711



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DES MOINES, IA 50306

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GLENVILLE, WV 26351



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GLENVILLE, WV 26351

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TATMAN CHRISTOPHER ADAM & TAMMY LYNN  
PO BOX 430  
GRANTSVILLE, WV 26147

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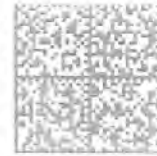
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4425 WV HWY 5 W  
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STEWART BENJAMIN D & KAYLA B  
4402 WV HWY 5 W  
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Chief of Oil and Gas  
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TANNER, WV 26137



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4483 WV HWY 5 W  
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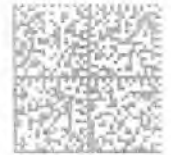
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MCCUNE JACK DELBERT & ELLEN J  
12410 E MIRABEAU PARKWAY STE 1  
SPOKANE PARKWAY, WA 99216



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KANAWHA DRIVE CHURCH-TRUSTEES  
PO BOX 338  
GLENVILLE, WV 26351

47021057964

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CUNNINGHAM ROSA BELL ELLYSON  
PO BOX 12  
GLENVILLE, WV 26351



PO Box 150  
GLENVILLE, WV 26351

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KANAWHA DRIVE CHURCH TRUSTEES  
RT 77 BOX 7 J  
GLENVILLE, WV 26351

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STOUT DONALD & PAULA  
4944 WV HWY 5 W  
GLENVILLE, WV 26351



PO Box 150  
GLENVILLE, WV 26351

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GROGG CURTIS L & PATRICIA S RIDDLE  
4890 WV HWY 5W  
GLENVILLE, WV 26351

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MCCARTNEY JACK & BRENDA  
786 NEWBERNE RD  
COXS MILLS, WV 26342



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GLENVILLE, WV 26351

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HENDERSON ROY ALAN & DEBORAH LOU  
5022 WV HWY 5 W  
GLENVILLE, WV 26351

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GAINER ROBERT JACKSON  
PO BOX 12  
GLENVILLE, WV 26351

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JAN 27 2022

011 11/11/21 10:54:53

4702105796H



4702105796

info@sllswv.com  
www.sllswv.com

To Whom It May Concern:

SLS Land & Energy Development of Glenville, WV has been contracted by:  
Mountain V Oil and Gas

To do some preliminary work for a proposed oil and gas well permit application. Due to 1994 regulations set by the State of West Virginia Division of Environmental Protection, Department of Oil and Gas, operators are required to offer water testing for water wells or other non-public water sources that fall within 1500 feet of the proposed well. This test will only help ensure the water quality control, which in turn benefits you as the resident or landowner.

Since your tax parcel falls completely or partially within the 1500-foot radius, you are entitled to have your potable water source(s) sampled and analyzed at an independent lab. Potable water sources include water wells, springs, creeks, and ponds. Your lab analysis results would then be mailed to your home. This is done at no expense to you.

Please notify SLS Land & Energy Development immediately if you are interested in having your potable water tested. Please have this letter with you at the time of contact so that the client and well number may be referenced. Thank you for your cooperation in this matter. I look forward to hearing from you at your earliest convenience. If you have any questions, please feel free to contact me at:

SLS Land & Energy Development  
PO Box 150  
Glenville, WV 26351  
(304) 462-5634 (office)  
(740) 516-9523 (cell)  
E-Mail awilson@sllswv.com

Date: 11/11/21

Left/sent by: Adan Wilson

Well Number: Reed 1

Tax Map / Parcel: 22/32.6

Gilmer County, WV DeKalb District

If you do not feel the need to have your Water well/spring/or other non-public water source sampled, please sign on the line below and return to the above address. This will signify that a sample has been offered to the surface owner and has been declined. Please include printed name along with signature.

Signature: Margaret Collins Date: 11/16/21

\*If you do not have a water well or other non-public water source, please make note of it and include your name, address, and telephone number when you return this sheet.

12 Vanhorn Drive, Glenville, WV 26351  
1412 Kanawha Boulevard East, Charleston, WV 25301  
254 East Beckley Bypass, Beckley, WV 25801  
304-462-5634

RECEIVED  
Div. of Oil and Gas  
JAN 27 2022  
WV Department of  
Environmental Protection

03/11/2022



DEC 06 2021

4702105796H

info@sllswv.com  
www.sllswv.com

To Whom It May Concern:

SLS Land & Energy Development of Glenville, WV has been contracted by:  
Mountain V Oil and Gas

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SLS Land & Energy Development  
PO Box 150  
Glenville, WV 26351  
(304) 462-5634 (office)  
(740) 516-9523 (cell)  
E-Mail awilson@sllswv.com

Date: 11/11/21

Left/sent by: Adam Wilson

Well Number: Reed 1

Tax Map / Parcel: 22/6

Gilmer County, WV DeKalb District

If you do not feel the need to have your Water well/spring/or other non-public water source sampled, please sign on the line below and return to the above address. This will signify that a sample has been offered to the surface owner and has been declined. Please include printed name along with signature.

Signature: Robert J. Gainer Date: 12/1/2021

\*If you do not have a water well or other non-public water source, please make note of it and include your name, address, and telephone number when you return this sheet.

Robert J. Gainer

12 Vanhorn Drive, Glenville, WV 26351  
1412 Kanawha Boulevard East, Charleston, WV 25301  
254 East Beckley Bypass, Beckley, WV 25801  
**304-462-5634**

RECEIVED  
Division of Oil and Gas  
JAN 27 2022  
WV Department of  
Environmental Protection

03/11/2022



NOV 29 2021

info@slsww.com  
www.slsww.com

To Whom It May Concern:

SLS Land & Energy Development of Glenville, WV has been contracted by:  
Mountain V Oil and Gas

To do some preliminary work for a proposed oil and gas well permit application. Due to 1994 regulations set by the State of West Virginia Division of Environmental Protection, Department of Oil and Gas, operators are required to offer water testing for water wells or other non-public water sources that fall within 1500 feet of the proposed well. This test will only help ensure the water quality control, which in turn benefits you as the resident or landowner.

Since your tax parcel falls completely or partially within the 1500-foot radius, you are entitled to have your potable water source(s) sampled and analyzed at an independent lab. Potable water sources include water wells, springs, creeks, and ponds. Your lab analysis results would then be mailed to your home. This is done at no expense to you.

Please notify SLS Land & Energy Development immediately if you are interested in having your potable water tested. Please have this letter with you at the time of contact so that the client and well number may be referenced. Thank you for your cooperation in this matter. I look forward to hearing from you at your earliest convenience. If you have any questions, please feel free to contact me at:

SLS Land & Energy Development  
PO Box 150  
Glenville, WV 26351  
(304) 462-5634 (office)  
(740) 516-9523 (cell)  
E-Mail awilson@slsww.com

Date: 11/11/21

Left/sent by: Adan Wilson

Well Number: Reed 1

Tax Map / Parcel: 22/23

Gilmer County, WV DeKalb District

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Environmental Protection

If you do not feel the need to have your Water well/spring/or other non-public water source sampled, please sign on the line below and return to the above address. This will signify that a sample has been offered to the surface owner and has been declined. Please include printed name along with signature.

Signature: Brenda K. Mc Cartney Date: 11/23/2021

\*If you do not have a water well or other non-public water source, please make note of it and include your name, address, and telephone number when you return this sheet.

Jack & Brenda Mc Cartney  
786 Newberna Rd.  
Cox's Mills, WV 26342  
12 Vanhorn Drive, Glenville, WV 26351  
1412 Kanawha Boulevard East, Charleston, WV 25301  
254 East Beckley Bypass, Beckley, WV 25801  
304-462-5634

304-462-7566

(The only water source on this parcel is through city water.)

03/11/2022



info@sllwv.com  
www.sllwv.com

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Glenville, WV 26351  
(304) 462-5634 (office)  
(740) 516-9523 (cell)  
E-Mail awilson@sllwv.com

Date: 11/11/21

Left/sent by: Adan Wilson

Well Number: Reed 1

Tax Map / Parcel: 22/31.2

Gilmer County, WV DeKalb District

JAN 27 2022  
WV Department of Environmental Protection

If you do not feel the need to have your Water well/spring/or other non-public water source sampled, please sign on the line below and return to the above address. This will signify that a sample has been offered to the surface owner and has been declined. Please include printed name along with signature.

Signature: Brenda K. Mc Cartney Date: 11/23/2021

\*If you do not have a water well or other non-public water source, please make note of it and include your name, address, and telephone number when you return this sheet.

*Note Address Change*  
For  
Kanawha Drive Baptist Church  
4737 W Hwy 5 W  
Colenville, WV 26351  
12 Vanhorn Drive, Glenville, WV 26351  
1412 Kanawha Boulevard East, Charleston, WV 25301  
254 East Beckley Bypass, Beckley, WV 25801  
304-462-5634

*(We only use city water at this time.)*



NOV 29 2021

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www.slswv.com

NOV 29 2021

To Whom It May Concern:

SLS Land &amp; Energy Development of Glenville, WV has been contracted by:

Mountain V Oil and Gas

To do some preliminary work for a proposed oil and gas well permit application. Due to 1994 regulations set by the State of West Virginia Division of Environmental Protection, Department of Oil and Gas, operators are required to offer water testing for water wells or other non-public water sources that fall within 1500 feet of the proposed well. This test will only help ensure the water quality control, which in turn benefits you as the resident or landowner.

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PO Box 150  
Glenville, WV 26351  
(304) 462-5634 (office)  
(740) 516-9523 (cell)  
E-Mail awilson@slswv.com

Date: 11/11/21Left/sent by: Adan WilsonWell Number: Reed 1Tax Map / Parcel: 22/25Gilmer County, WV DeKalb District

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JAN 27 2022  
WV Department of  
Environmental Protection

If you do not feel the need to have your Water well/spring/or other non-public water source sampled, please sign on the line below and return to the above address. This will signify that a sample has been offered to the surface owner and has been declined. Please include printed name along with signature.

Signature: Donnie Stout Donnie Stout Date: 11-18-21

\*If you do not have a water well or other non-public water source, please make note of it and include your name, address, and telephone number when you return this sheet.

*We do have a water well, but haven't used it for several years, we use city water.  
1-304-462-7233*

12 Vanhorn Drive, Glenville, WV 26351  
1412 Kanawha Boulevard East, Charleston, WV 25301  
254 East Beckley Bypass, Beckley, WV 25801  
304-462-5634

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To Whom It May Concern:

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Mountain V Oil and Gas

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Glenville, WV 26351  
(304) 462-5634 (office)  
(740) 516-9523 (cell)  
E-Mail awilson@sllwv.com

Date: 11/11/21

Left/sent by: Adan Wilson

Well Number: Reed 1

Tax Map / Parcel: 22/29, & 29.1

Gilmer County, WV DeKalb District

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Department of Oil and Gas  
JAN 27 2022  
WV Department of  
Environmental Protection

If you do not feel the need to have your Water well/spring/or other non-public water source sampled, please sign on the line below and return to the above address. This will signify that a sample has been offered to the surface owner and has been declined. Please include printed name along with signature.

Signature: Brenda K. Mc Cartney Date: 11/23/2021

\*If you do not have a water well or other non-public water source, please make note of it and include your name, address, and telephone number when you return this sheet.

*For*  
Kanawha Drive Baptist Church  
4737 W Hwy 5 W  
Glenville, WV 26351  
12 Vanhorn Drive, Glenville, WV 26351  
1412 Kanawha Boulevard East, Charleston, WV 25301  
254 East Beckley Bypass, Beckley, WV 25801  
304-462-5634  
*Note Address Change*

*(We only use city water at this time.)*



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4702105796H

info@slswv.com  
www.slswv.com

To Whom It May Concern:

SLS Land & Energy Development of Glenville, WV has been contracted by:  
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To do some preliminary work for a proposed oil and gas well permit application. Due to 1994 regulations set by the State of West Virginia Division of Environmental Protection, Department of Oil and Gas, operators are required to offer water testing for water wells or other non-public water sources that fall within 1500 feet of the proposed well. This test will only help ensure the water quality control, which in turn benefits you as the resident or landowner.

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PO Box 150  
Glenville, WV 26351  
(304) 462-5634 (office)  
(740) 516-9523 (cell)  
E-Mail awilson@slswv.com

Date: 11/11/21

Left/sent by: Adan Wilson

Well Number: Reed 1

Tax Map / Parcel: 22/32.3

Gilmer County, WV DeKalb District

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Office of Oil and Gas  
JAN 27 2022  
WV Department of  
Environmental Protection

If you do not feel the need to have your Water well/spring/or other non-public water source sampled, please sign on the line below and return to the above address. This will signify that a sample has been offered to the surface owner and has been declined. Please include printed name along with signature.

Signature: [Handwritten Signature] Date: 11/17/2021

\*If you do not have a water well or other non-public water source, please make note of it and include your name, address, and telephone number when you return this sheet.

12 Vanhorn Drive, Glenville, WV 26351  
1412 Kanawha Boulevard East, Charleston, WV 25301  
254 East Beckley Bypass, Beckley, WV 25801  
**304-462-5634**

03/11/2022



NOV 22 2021

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info@slswv.com  
www.slswv.com

To Whom It May Concern:

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Mountain V Oil and Gas

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(304) 462-5634 (office)  
(740) 516-9523 (cell)  
E-Mail awilson@slswv.com

Date: 11/11/21

Left/sent by: Adan Wilson

Well Number: Reed 1

Tax Map / Parcel: 22/28

Gilmer County, WV DeKalb District

If you do not feel the need to have your Water well/spring/or other non-public water source sampled, please sign on the line below and return to the above address. This will signify that a sample has been offered to the surface owner and has been declined. Please include printed name along with signature.

Signature: Rosa Belle Cunningham Date: 11/16/21

\*If you do not have a water well or other non-public water source, please make note of it and include your name, address, and telephone number when you return this sheet.

12 Vanhorn Drive, Glenville, WV 26351  
1412 Kanawha Boulevard East, Charleston, WV 25301  
254 East Beckley Bypass, Beckley, WV 25801  
304-462-5634

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WV Department of  
Environmental Protection

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info@sllswv.com  
www.sllswv.com

To Whom It May Concern:

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Glenville, WV 26351  
(304) 462-5634 (office)  
(740) 516-9523 (cell)  
E-Mail awilson@sllswv.com

Date: 11/11/21

Left/sent by: Adan Wilson

Well Number: Reed 1

Tax Map / Parcel: 22/57

Gilmer County, WV DeKalb District

If you do not feel the need to have your Water well/spring/or other non-public water source sampled, please sign on the line below and return to the above address. This will signify that a sample has been offered to the surface owner and has been declined. Please include printed name along with signature.

Signature: *Shore City Water*  
*David Muttter* Date: 11-15-21

\*If you do not have a water well or other non-public water source, please make note of it and include your name, address, and telephone number when you return this sheet.

12 Vanhorn Drive, Glenville, WV 26351  
1412 Kanawha Boulevard East, Charleston, WV 25301  
254 East Beckley Bypass, Beckley, WV 25801  
304-462-5634

JAN 27 2022  
WV Department of  
Environmental Protection

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4702105796H

WW-9  
(5/16)

API Number 47 - 021 -  
Operator's Well No. Reed 1H WW0470

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Mountain V Oil and Gas OP Code 310020

Watershed (HUC 10) Sinking Creek Quadrangle Tanner 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: Waste and drill cuttings

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? 30

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number \_\_\_\_\_)
- Reuse (at API Number \_\_\_\_\_)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain AST On Site)

*SDW  
1/25/2022*

Will closed loop system be used? If so, describe: N/A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Oil base / Brinerwater

-If oil based, what type? Synthetic, petroleum, etc. Synthetic

Additives to be used in drilling medium? n/a

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Leave in pit

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) Cement

-Landfill or offsite name/permit number? \_\_\_\_\_

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Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

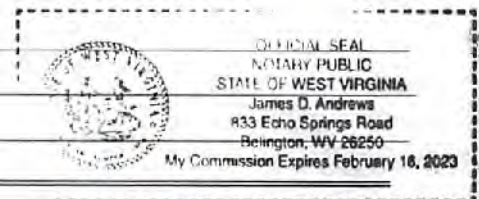
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *Mike Shaver*

Company Official (Typed Name) Mike Shaver

Company Official Title President



Subscribed and sworn before me this 26th day of January, 20 22

*[Signature]*

Notary Public

My commission expires 2-16-2023

03/11/2022

Proposed Revegetation Treatment: Acres Disturbed 2.95 Prevegetation pH 6.8

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 700 lbs/acre

Mulch Hay 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: S. D. W...

Comments: Pre-seed / mulch as soon as reasonably possible per WV DEP ETS manual. Upgrade ETS as needed.

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JAN 27 2022

WV Department of  
Environmental Protection

Title: BOG Inspector Date: 1/25/2022

Field Reviewed?  Yes  No

**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
GROUNDWATER PROTECTION PLAN**

Operator Name: Mountain V Oil and GasWatershed (HUC 10): Sinking CreekQuad: Tanner 7.5'Farm Name: Reed

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

No fluid from drilling operations will be discharged. All surface water will be ran through proper E&S Controls prior to leaving the site.

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

AST on site will be double walled and lined to prevent any releases. Pad and pit will be lined to prevent any releases.

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Closest Water Body - Sinking Creek 180'  
No Discharges, No Nearby Wellhead Protection Area

4. Summarize all activities at your facility that are already regulated for groundwater protection.

Centralized AST

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JAN 27 2022

WV Department of  
Environmental Protection

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

03/11/2022

[Empty rectangular box]

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

No waste material will be used for deicing or fill material on the property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

All employees will be trained in the content and application of the GPP prior to working on site. All employees will understand the importance of Groundwater Protection and how to ensure it is done. GPP will be kept on site to review at any time.

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

GPP Elements and Equipment will be inspected and documented weekly or after a significant rain event.

Signature: *[Handwritten Signature]*

Date: 1/26/22

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JAN 27 2022

WV Department of  
Environmental Protection

03/11/2022



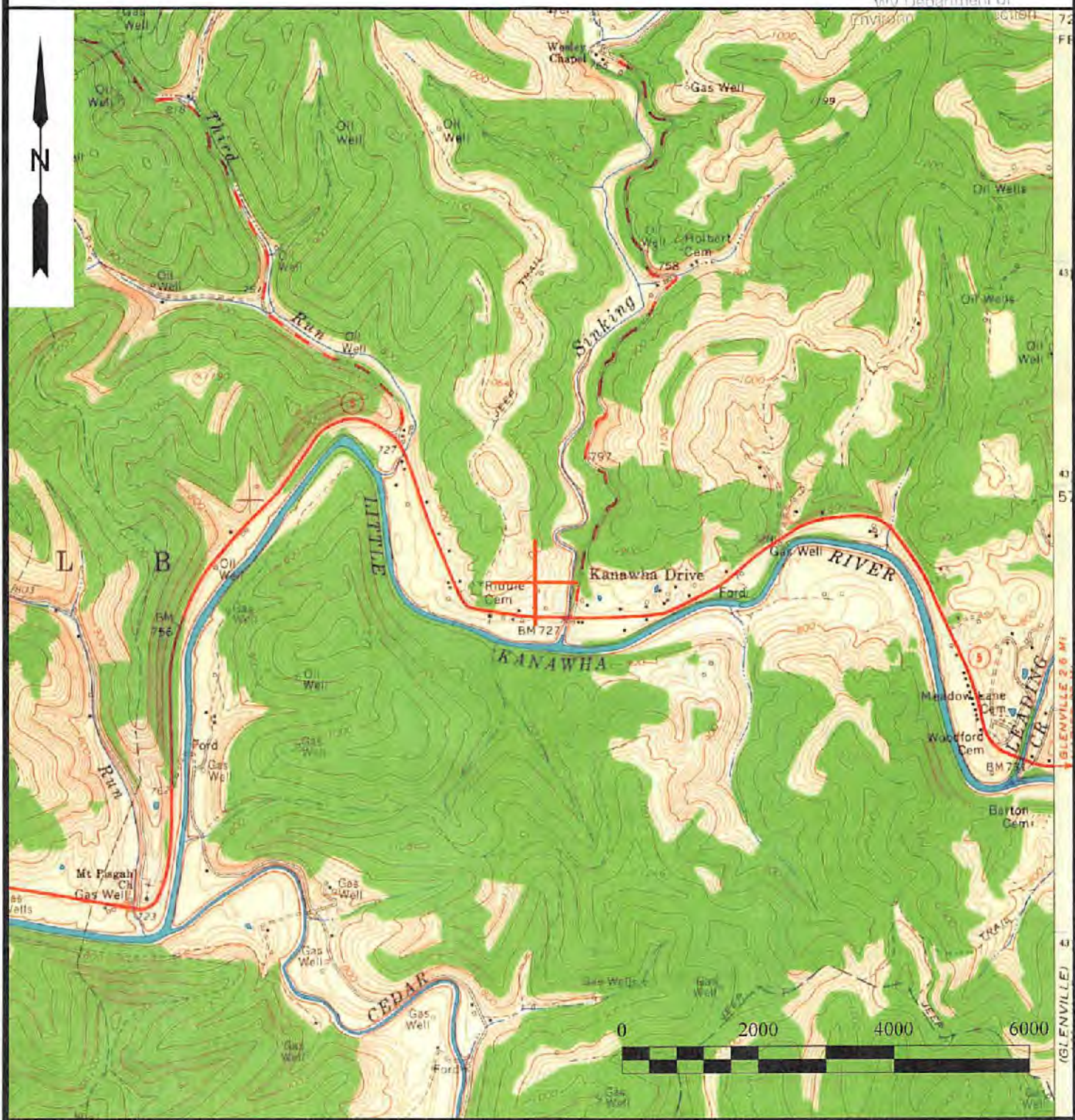
4702105796H

# PROPOSED REED 1H WV0470

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Office of Oil and Gas

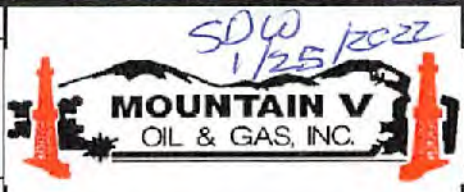
JAN 27 2022

WV Department of  
Environment



17 Ventnor Drive | P.O. Box 150 | Glenville, WV 26031 | 504-482-5854  
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 504-244-6812  
 234 East Beckley Bypass | Beckley, WV 25801 | 504-255-5296  
 sls.com

TOPO SECTION:		OPERATOR:	
TANNER 7.5'		PREPARED FOR: MOUNTAIN V OIL AND GAS, INC. P.O. BOX 470 BRIDGEPORT, WV 26330	
COUNTY	DISTRICT		
GILMER	DEKALB		
DRAWN BY	JOB NO.	DATE	SCALE
C.P.M.	9093	12-20-21	1"=2000'



03/11/2022

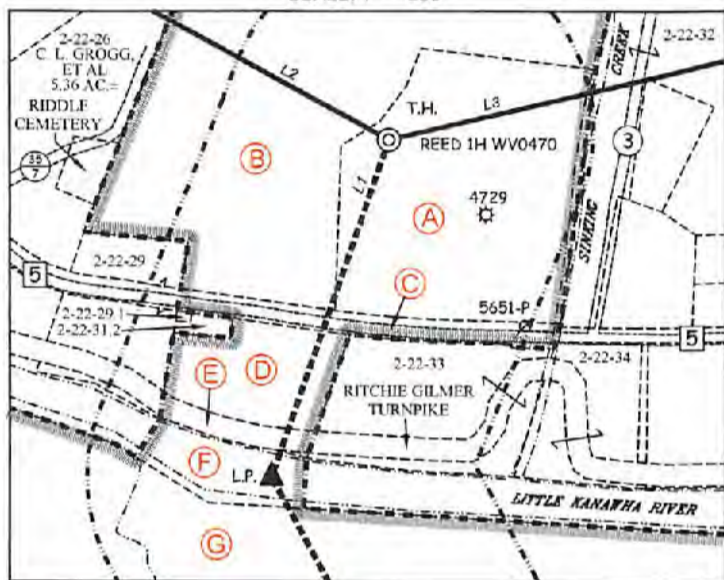
**MOUNTAIN V OIL & GAS, INC.  
REED LEASE  
WELL 1H WV0470**

7,605' T.H.		5,527' B.H.	
T.H. LATITUDE 38°57'30"		B.H. LATITUDE 38°57'30"	
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)			
NAD'83 S.P.C.(FT)	N. 711,968.69	E. 1,996,444.33	
NAD'83 GEO.	LAT-(N) 38.955098	LONG-(W) 80.901740	
NAD'83 UTM (M)	N. 4,311,798.40	E. 508,513.91	
<u>LANDING POINT</u>			
NAD'83 S.P.C.(FT)	N. 711,058.8	E. 1,996,125.5	
NAD'83 GEO.	LAT-(N) 38.952601	LONG-(W) 80.902664	
NAD'83 UTM (M)	N. 4,311,521.2	E. 508,416.8	
<u>BOTTOM HOLE</u>			
NAD'83 S.P.C.(FT)	N. 705,662.4	E. 1,998,529.4	
NAD'83 GEO.	LAT-(N) 38.940523	LONG-(W) 80.894429	
NAD'83 UTM (M)	N. 4,310,181.7	E. 509,149.2	

TAG	SURFACE OWNER	PARCEL	ACRES
A	LILLION ONIDEE NUTTER	2-22-57	14.95
B	TERRY J. & MARY E. HECKERT	2-17-22	60.00
C	WV ST. RT. 5	N/A	N/A
D	JACK DELBERT & ELLEN J. MCCUNE	2-22-31	3.06
E	RITCHIE GILMER TURNPIKE	N/A	N/A
F	LITTLE KANAWHA RIVER	N/A	N/A
G	ARBUCKLE RESOURCES GROUP LLC, ET AL	2-22-51	56.00
H	KENNETH ROLLIN GUERIN, ET AL	2-22-50	196.55
T	ARBUCKLE RESOURCES GROUP LLC, ET AL	2-22-53	290.25

PARCEL	SURFACE ADJOINER	ACRES
2-17-28	ORLEN GLENN HESS, ET AL	32.00
2-17-28.2	MARGARET E. MACKENZIE	24.89
2-22-29	KANAWHA DRIVE CHURCH TRUSTEES	3.00
2-22-29.1	KANAWHA DRIVE CHURCH	0.05
2-2-31.2	KANAWHA DRIVE CHURCH TRUSTEES	0.19
2-22-32	BENJAMIN D. & KAYLA B. STEWART	25.64
2-22-33	JACK DELBERT & ELLEN J. MCCUNE	4.655
2-22-34	DAVID PAUL & DONNA MARIE GOFF	2.64

DETAIL  
SCALE: 1" = 500'



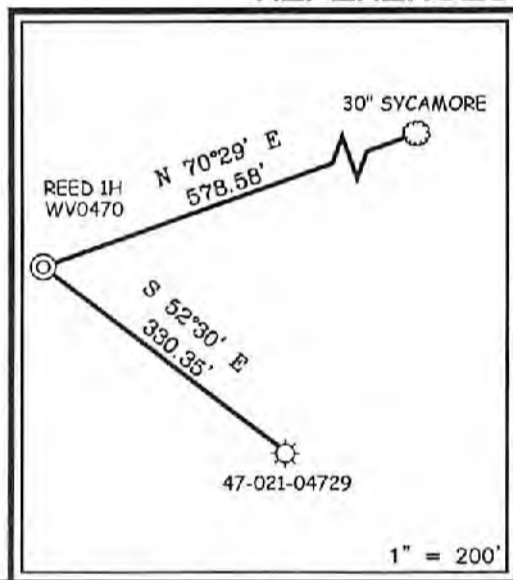
12 Vainhorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.463.5634  
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952  
254 East Beckley Bypass | Beckley, WV 25801 | 304.258.5296  
slsvw.com

**NOTES ON SURVEY**

1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL REED 1H WV0470.
2. WELL SPOT CIRCLE & TOP MARK SCALE IS 1"=2000'

RECEIVED  
Office of Oil and Gas  
JAN 27 2022  
WV Department of  
Environmental Protection

**REFERENCES**



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 DECEMBER 21, 20 21  
REVISED \_\_\_\_\_, 20 \_\_\_\_\_  
OPERATORS WELL NO. REED 1H WV0470  
API WELL NO. 47 - 021 - 05796H  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 9093P1HR.dwg  
HORIZONTAL & VERTICAL CONTROL DETERMINED BY: DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

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

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: GROUND = 785.10' PROPOSED = 786.30' WATERSHED SINKING CREEK  
DISTRICT DEKALB COUNTY GILMER QUADRANGLE TANNER 7.5'

SURFACE OWNER L. ONIDEE NUTTER ACREAGE 15.00±  
ROYALTY OWNER L. ONIDEE NUTTER ACREAGE 15.00±

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 WEIR  
ESTIMATED DEPTH TVD: 2,000' / TMD: 7,974.78'

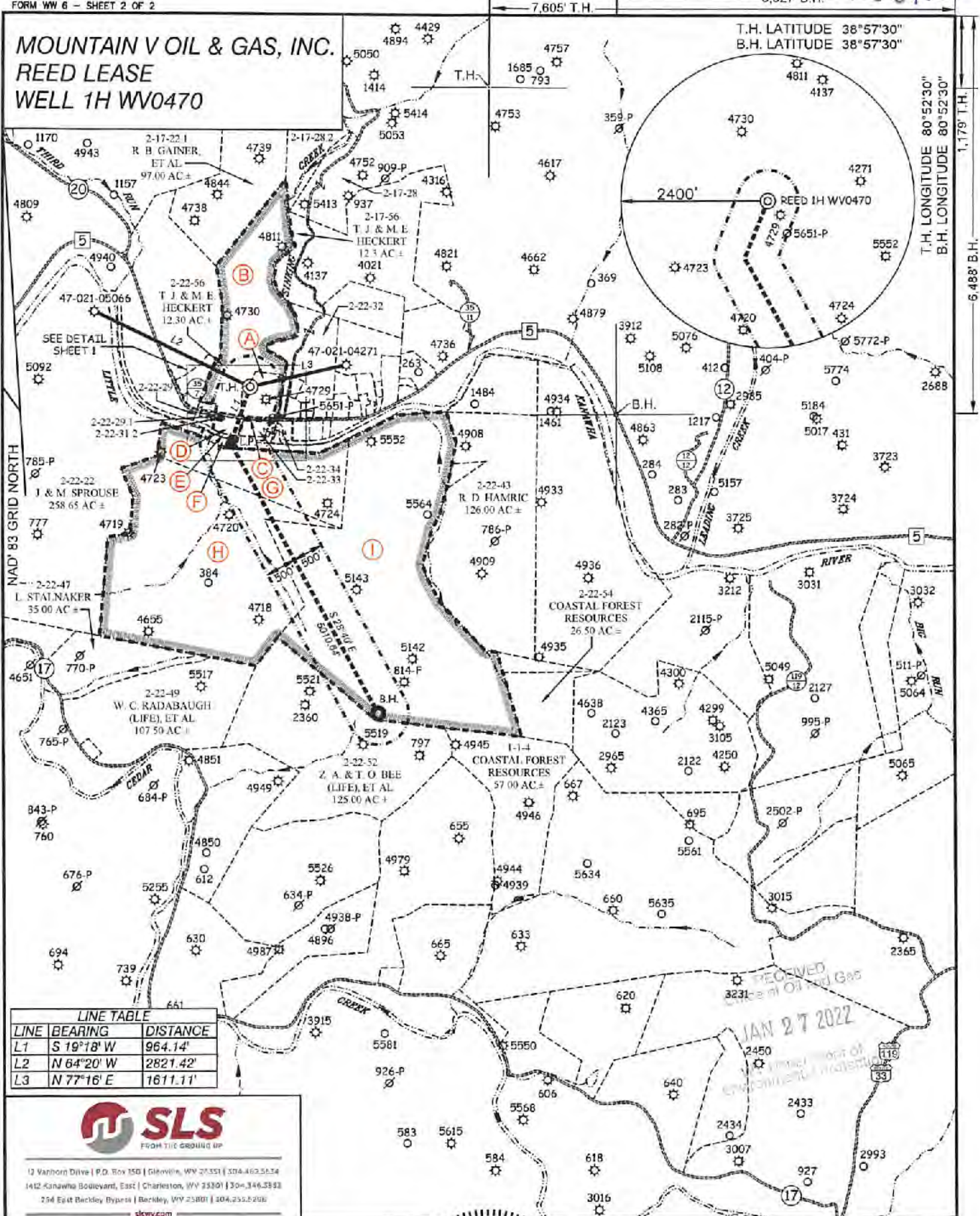
WELL OPERATOR MOUNTAIN V OIL AND GAS INC. DESIGNATED AGENT MIKE SHAVER  
ADDRESS P.O. BOX 470 BRIDGEPORT, WV 26330 ADDRESS P.O. BOX 470 BRIDGEPORT, WV 26330

COUNTY NAME  
PERMIT

03/11/2022

4702105796H

**MOUNTAIN V OIL & GAS, INC.  
REED LEASE  
WELL 1H WV0470**



LINE	BEARING	DISTANCE
L1	S 19°18' W	964.14'
L2	N 64°20' W	2821.42'
L3	N 77°16' E	1611.11'



12 Vanhook Drive | P.O. Box 150 | Glenview, WV 26031 | 304.462.5534  
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.5393  
754 East Beckley Bypass | Beckley, WV 25801 | 304.255.2026  
sllwv.com

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

NAD'83 S.P.C. (FT)	N. 711,968.69	E. 1,996,444.33
NAD'83 GEO.	LAT-(N) 38.955098	LONG-(W) 80.901740
NAD'83 UTM (M)	N. 4,311,798.40	E. 508,513.81

LANDING POINT

NAD'83 S.P.C. (FT)	N. 711,958.8	E. 1,996,125.5
NAD'83 GEO.	LAT-(N) 38.952801	LONG-(W) 80.902864
NAD'83 UTM (M)	N. 4,311,521.2	E. 508,416.8

BOTTOM HOLE

NAD'83 S.P.C. (FT)	N. 706,862.4	E. 1,998,529.4
NAD'83 GEO.	LAT-(N) 38.940523	LONG-(W) 80.894429
NAD'83 UTM (M)	N. 4,310,181.7	E. 508,149.2



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

P.S. 677 *Gregory A. Smith*

SCALE 1" = 2000' FILE NO. 9093P1HR.dwg

DATE DECEMBER 21, 20 21

REVISED \_\_\_\_\_, 20 \_\_\_\_\_

OPERATORS WELL NO. REED 1H WV0470

API WELL NO. 47 - 021 - 05796H

STATE COUNTY PERMIT

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

LEGEND

LEASE LINE	--- --- --- --- --- --- --- --- --- ---
SURFACE LINE	-----
WELL LATERAL	-----
OFFSET LINE	-----
TIE LINE	-----
CREEK	~~~~~
ROAD	====
COUNTY ROUTE	====
PROPOSED WELL	⊙
EXISTING WELL	⊙
PERMITTED WELL	⊙
TAX MAP-PARCEL	00-00
SURFACE OWNER (SEE TABLE)	⊙
LEASE # (SEE WW-BA1)	⊙

WELL OPERATOR MOUNTAIN V OIL AND GAS INC. DESIGNATED AGENT MIKE SHAVER

ADDRESS P.O. BOX 470 ADDRESS P.O. BOX 470

BRIDGEPORT, WV 26330 BRIDGEPORT, WV 26330

COUNTY NAME \_\_\_\_\_

PERMIT \_\_\_\_\_

03/11/2022

**MOUNTAIN V OIL & GAS, INC.  
REED LEASE  
WELL 1H WV0470**

T.H. LATITUDE 38°57'30"  
B.H. LATITUDE 38°57'30"

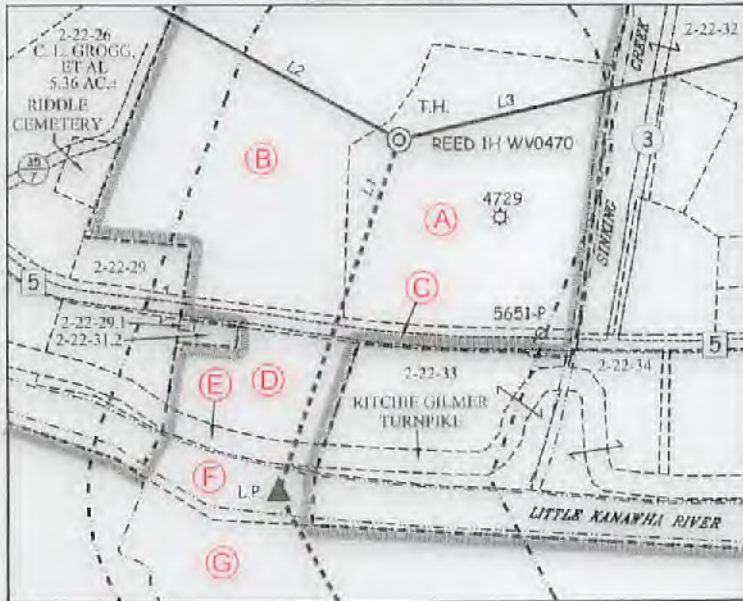
TAG	SURFACE OWNER	PARCEL	ACRES
A	LILLION ONIDEE NUTTER	2-22-57	14.95
B	TERRY J. & MARY E. HECKERT	2-17-22	60.00
C	WV ST. RT. 5	N/A	N/A
D	JACK DELBERT & ELLEN J. MCCUNE	2-22-31	3.06
E	RITCHIE GILMER TURNPIKE	N/A	N/A
F	LITTLE KANAWHA RIVER	N/A	N/A
G	ARBUCKLE RESOURCES GROUP LLC, ET AL	2-22-51	56.00
H	KENNETH ROLLIN GUERIN, ET AL	2-22-50	196.53
I	ARBUCKLE RESOURCES GROUP LLC, ET AL	2-22-53	290.25

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

NAD'83 S.P.C.(FT)	N. 711,968.69	E. 1,998,444.33
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<b>BOTTOM HOLE</b>		
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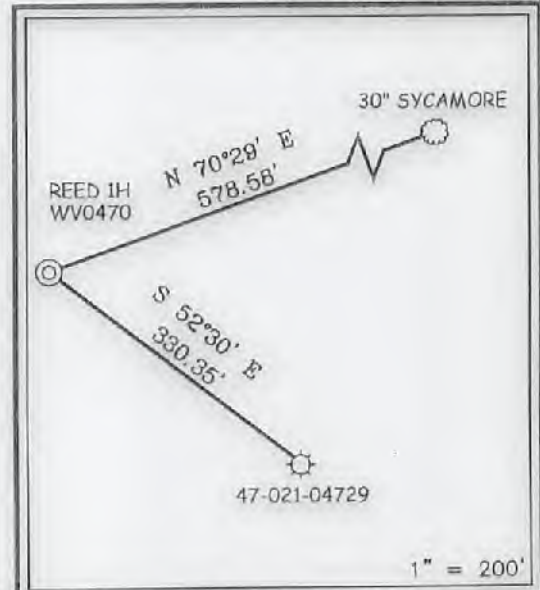
PARCEL	SURFACE ADJOINER	ACRES
2-17-28	ORLEN GLENN HESS, ET AL	32.00
2-17-28.2	MARGARET E. MACKENZIE	24.89
2-22-29	KANAWHA DRIVE CHURCH TRUSTEES	3.00
2-22-29.1	KANAWHA DRIVE CHURCH	0.05
2-2-31.2	KANAWHA DRIVE CHURCH TRUSTEES	0.19
2-22-32	BENJAMIN D. & KAYLA B. STEWART	25.64
2-22-33	JACK DELBERT & ELLEN J. MCCUNE	4.655
2-22-34	DAVID PAUL & DONNA MARIE GOFF	2.64

DETAIL  
SCALE: 1" = 500'



B.H.

**REFERENCES**



**NOTES ON SURVEY**

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL REED 1H WV0470.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1" = 2000'

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P.S.  
677

*Gregory A. Smith*



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

DATE DECEMBER 21, 20 21  
 REVISED \_\_\_\_\_, 20 \_\_\_\_  
 OPERATORS WELL NO. REED 1H WV0470  
 API WELL NO. 47 - 021 - 05796H  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 9093P1HR.dwg  
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STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS



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 SURFACE OWNER L. ONIDEE NUTTER ACREAGE 15.00±  
 ROYALTY OWNER L. ONIDEE NUTTER ACREAGE 03/11/2022  
 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 WEIR  
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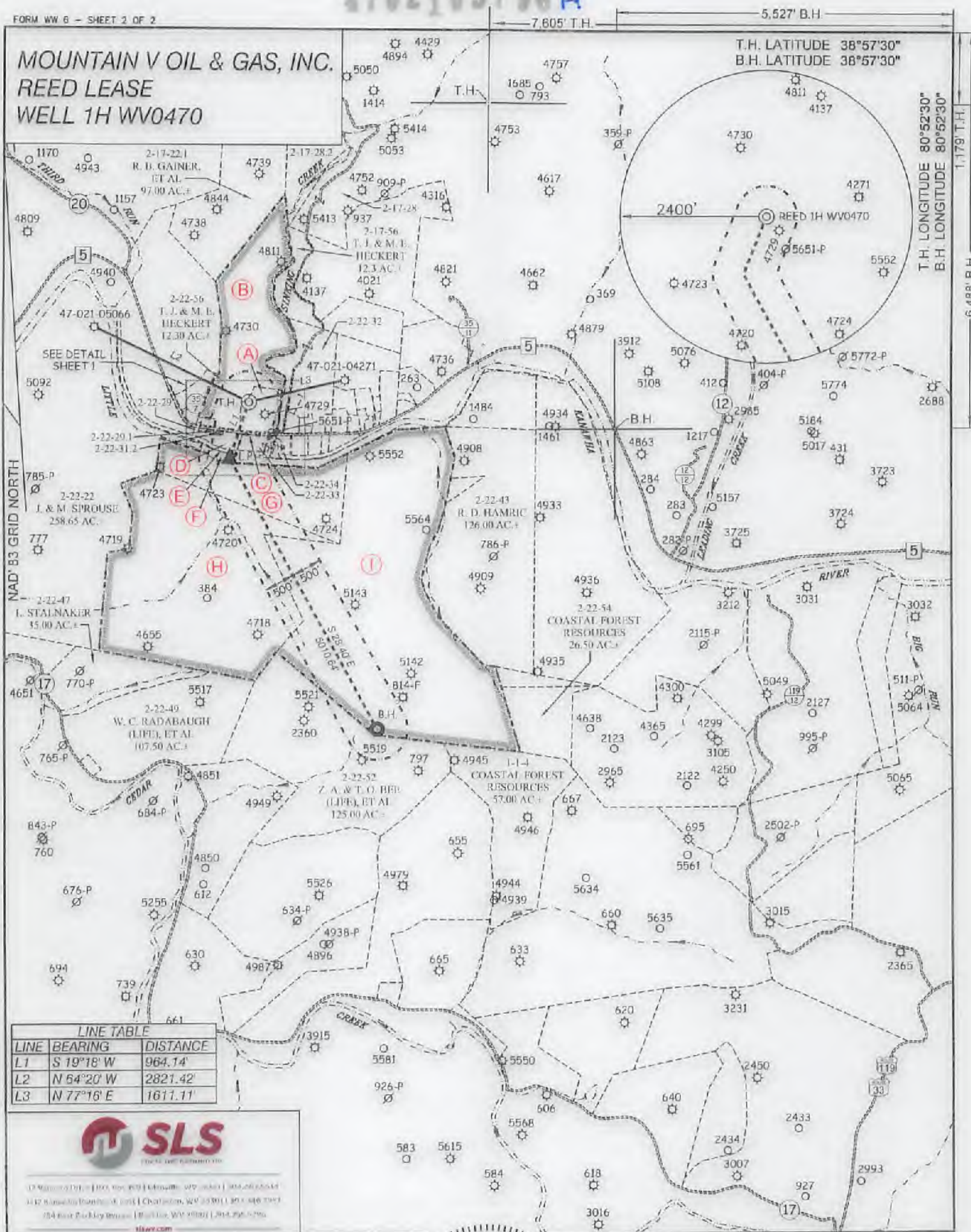
WELL OPERATOR MOUNTAIN V OIL AND GAS INC.  
 ADDRESS P.O. BOX 470  
BRIDGEPORT, WV 26330

DESIGNATED AGENT MIKE SHAVER  
 ADDRESS P.O. BOX 470  
BRIDGEPORT, WV 26330

COUNTY NAME  
 PERMIT

4702105796H

**MOUNTAIN V OIL & GAS, INC.  
REED LEASE  
WELL 1H WV0470**



**LINE TABLE**

LINE	BEARING	DISTANCE
L1	S 19°18' W	964.14'
L2	N 64°20' W	2821.42'
L3	N 77°16' E	1611.11'



© 2000 SLS  
412 Main Street, Charleston, WV 25301  
804-786-7000

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

NAD'83 S.P.C.(FT)	N 711,968.69	E 1,996,444.33
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**BOTTOM HOLE**

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

P.S. 677 *Gregory A. Smith*

**LEGEND**

LEASE LINE	-----
SURFACE LINE	-----
WELL LATERAL	-----
OFFSET LINE	-----
TIE LINE	-----
CREEK	~~~~~
ROAD	-----
COUNTY ROUTE	-----
PROPOSED WELL	⊙
EXISTING WELL	⊙
PERMITTED WELL	⊙
TAX MAP-PARCEL	00-00
SURFACE OWNER (SEE TABLE)	ⓐ
LEASE # (SEE WW-6A1)	ⓐ

SCALE 1" = 2000' FILE NO. 9093P1HR.dwg

DATE DECEMBER 21, 20 21

REVISED \_\_\_\_\_, 20 \_\_\_\_\_

OPERATORS WELL NO. REED 1H WV0470

API WELL NO. 47-021-05796H

STATE COUNTY PERMIT

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

WELL OPERATOR MOUNTAIN V OIL AND GAS INC. DESIGNATED AGENT MIKE SHAVER  
ADDRESS P.O. BOX 470 ADDRESS P.O. BOX 470  
BRIDGEPORT, WV 26330 BRIDGEPORT, WV 26330

COUNTY NAME PERMIT

03/11/2022

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
Chapter 22, Article 6, Section 8(d)  
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
SEE ATTACHED LIST			

**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

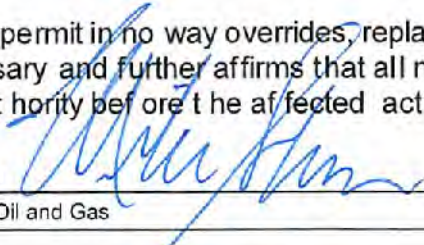
RECEIVED  
Office of Oil and Gas

JAN 27 2022

WV Department of  
Environmental Protection

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:  
By: Its:

Mike Shaver  
  
 \_\_\_\_\_  
 Mountain V Oil and Gas  
 \_\_\_\_\_  
 President  
 \_\_\_\_\_

## WW-2A-1 (REV (1/11))

## ATTACHMENT

Grantor, Lessor, etc.	Grantee, Lessee, etc	Royalty	Book/Page
Lillian O Nutter etal	Waco Oil & Gas	1/8th	371/715
David Reed et al	Waco Oil & Gas	1/8th	371/717
Kanawha Drive Baptist Ch	Mountain V Oil & Gas Inc.	1/8th	
WV DNR	Mountain V Oil & Gas Inc.	1/8th	
William Rymer	Mountain V Oil & Gas Inc.	1/5th	
Black Gold LLC	Mountain V Oil & Gas Inc.	1/5th	
Randall Poole	Mountain V Oil & Gas Inc.	1/20th	
Rebecca Goldsmith	Mountain V Oil & Gas Inc.	1/20th	
Daniel Poole	Mountain V Oil & Gas Inc.	1/20th	
Larry Ellyson	Mountain V Oil & Gas Inc.	1/30th	
Doris J Adams	Mountain V Oil & Gas Inc.	1/30th	
Clinton Ellyson	Mountain V Oil & Gas Inc.	1/30th	
Gary Ellyson	Mountain V Oil & Gas Inc.	1/30th	
Glendon Ellyson	Mountain V Oil & Gas Inc.	1/30th	
Carmen Smith	Mountain V Oil & Gas Inc.	1/30th	
Tina Haney	Mountain V Oil & Gas Inc.	1/10th	
Michael Collins	Mountain V Oil & Gas Inc.	1/10th	
Tina Paiclet	Mountain V Oil & Gas Inc.	1/60th	
Gary Greathouse II	Mountain V Oil & Gas Inc.	1/60th	
Tiffany Friend	Mountain V Oil & Gas Inc.	1/60th	
William Rymer	Mountain V Oil & Gas Inc.	1/10th	
Black Gold LLC	Mountain V Oil & Gas Inc.	1/10th	
Randall Poole	Mountain V Oil & Gas Inc.	1/40th	
Rebecca Goldsmith	Mountain V Oil & Gas Inc.	1/40th	
Daniel Poole	Mountain V Oil & Gas Inc.	1/40th	
Larry Ellyson	Mountain V Oil & Gas Inc.	1/60th	
Doris J Adams	Mountain V Oil & Gas Inc.	1/60th	
Clinton Ellyson	Mountain V Oil & Gas Inc.	1/60th	
Gary Ellyson	Mountain V Oil & Gas Inc.	1/60th	
Glendon Ellyson	Mountain V Oil & Gas Inc.	1/60th	
Carmen Smith	Mountain V Oil & Gas Inc.	1/60th	
Tina Haney	Mountain V Oil & Gas Inc.	1/20th	
Michael Collins	Mountain V Oil & Gas Inc.	1/20th	
Tina Paiclet	Mountain V Oil & Gas Inc.	1/120th	
Gary Greathouse II	Mountain V Oil & Gas Inc.	1/120th	
Tiffany Friend	Mountain V Oil & Gas Inc.	1/120th	
St of WV DNR	Mountain V Oil & Gas Inc.	1/8th	
St of WV DNR	Mountain V Oil & Gas Inc.	1/8th	
Helen W Nicholas	Mountain V Oil & Gas Inc.	3/4th	
Helen Fragale	Mountain V Oil & Gas Inc.	1/8th	
Mary Jo Fletcher	Mountain V Oil & Gas Inc.	1/24th	
John Corkrean Trust	Mountain V Oil & Gas Inc.	1/24th	
Corkrean Family Trust	Mountain V Oil & Gas Inc.	1/24th	
Kenneth R Guerin	Mountain V Oil & Gas Inc.	3/4th	
Sallie Gammage	Mountain V Oil & Gas Inc.	1/4th	
Helen W Nicholas	Mountain V Oil & Gas Inc.	1/2th	
Helen Fragale	Mountain V Oil & Gas Inc.	1/4th	
Mary Jo Fletcher	Mountain V Oil & Gas Inc.	1/12th	
John Corkrean Trust	Mountain V Oil & Gas Inc.	1/12th	
Corkrean Family Trust	Mountain V Oil & Gas Inc.	1/12th	

RECEIVED  
Office of Oil and Gas

JAN 27 2022

WV Department of  
Environmental Protection  
03/11/2022



4702105796H

P. O. Box 470  
Bridgeport, WV 26330

Office: 304-842-6320  
Fax: 304-842-0016

January 24, 2022

WV DEP  
Office of Oil & Gas  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

Re: **Permits:**  
**Reed #1H WV0470, DeKalb District, Gilmer County, WV**

*ck# 64664  
\$650*

To Whom It May Concern,

Please find enclosed with this letter the permit package for the following well located in Gilmer County, West Virginia:

- **Reed #1H WV0470**

Should you have any questions comments or concerns please contact me at your convenience.

Respectfully Yours,

Jamie Andrews  
Mountain V Oil & Gas, Inc.

RECEIVED  
Office of Oil and Gas  
JAN 27 2022  
WV Department of  
Environmental Protection

03/11/2022





# REED PAD FINAL SITE PLAN MOUNTAIN V OIL AND GAS, INC. CONSTRUCTION NOTES

## CONSTRUCTION SEQUENCE:

THE DEVELOPMENT OF THIS SITE SHALL BE CONSISTENT WITH THE FOLLOWING GENERAL SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHALL IMPLEMENT, MAINTAIN, AND OPERATE ALL PROPOSED EROSION AND SEDIMENT CONTROL MEASURES TO EFFECTIVELY MITIGATE THE HAZARD OF ACCELERATED EROSION AND SEDIMENTATION TO ACCEPTABLE LEVELS. MINOR DEVIATIONS FROM THIS SEQUENCE SHALL BE EXECUTED BY THE PROJECT'S SUPERINTENDENT AS NEEDED TO ELIMINATE ANY POTENTIAL EROSION CONDITION THAT MAY ARISE FOR THE DURATION OF THE PROJECT. THE WVDEP OFFICE OF OIL AND GAS SHALL BE NOTIFIED OF ANY AND ALL SUCH DEVIATIONS FROM THE APPROVED PLANS.

1. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD WITH THE CONTRACTOR AND APPROPRIATE EROSION AND SEDIMENT CONTROL INSPECTOR 48 HOURS PRIOR TO BEGINNING WORK TO REVIEW THE CONSTRUCTION DRAWINGS AND PROVIDE ANY REQUESTED GUIDANCE.
2. STAKE THE LIMITS OF CONSTRUCTION AND MARK ALL IDENTIFIED WETLANDS, STREAMS, AND OTHER AREAS OF CONCERN FOR CONSTRUCTION ACTIVITIES. INSTALL SIGNS TO DESIGNATE THE AREAS AND ORANGE SAFETY FENCE TO IDENTIFY IMPORTANT PROJECT ATTRIBUTES SUCH AS APPROVED ACCESS ROADS, NO REFUELING ZONES, WETLANDS/STREAM BOUNDS, ETC.
3. CONSTRUCT THE ROCK CONSTRUCTION ENTRANCE. ALL VEHICLES ENTERING AND EXITING THE SITE SHALL DO SO VIA THE ROCK CONSTRUCTION ENTRANCE.
4. INSTALL ALL BMPs NECESSARY TO BEGIN CLEARING AND GRUBBING OF THE SITE AS SHOWN ON THE PLANS AND DETAILS.
5. RELOCATE EXISTING GAS LINES AS NEEDED.

6. CLEAR AND GRUB THE ACCESS ROAD, WELL PAD, AND AST PAD AREAS. ALL WOODY MATERIAL, BRUSH, TREES, STUMPS, LARGE ROOTS, BOULDERS, AND DEBRIS SHALL BE CLEARED FROM THE SITE AREA AND KEPT TO THE MINIMUM NECESSARY FOR PROPER CONSTRUCTION, INCLUDING THE INSTALLATION OF NECESSARY SEDIMENT CONTROLS.

7. IF APPLICABLE, INSTALL ALL WETLAND OR STREAM CROSSINGS AS SHOWN ON THE PLANS.

8. STRIP THE TOPSOIL FROM THE ACCESS ROAD, WELL PAD, AND AST PAD. ALL STRIPPED TOPSOIL SHALL BE STOCKPILED IN AREAS SHOWN ON THE PLANS, AND IMMEDIATELY STABILIZED. ADDITIONAL BMP MEASURES SHALL BE CONSTRUCTED AROUND TOPSOIL STOCKPILES, IF NECESSARY.

9. CONSTRUCT THE ACCESS ROAD, PROPOSED CROSS CULVERTS AND ROAD SIDE DITCHES. AS ACCESS ROAD CONSTRUCTION PROGRESSES, BEGIN WELL PAD CONSTRUCTION. AS FILL SLOPES ARE CONSTRUCTED, INSTALL SLOPE INTERRUPTION COMPOST FILTER SOCK AS LABELED ON THE PLANS AND SHOWN ON THE DETAILS.

10. INSTALL DITCH RELIEF CULVERTS AT A MINIMUM SLOPE OF 1% AND APPROXIMATELY 30 DEGREES DOWNGRADE TO THE CENTERLINE OF THE DITCH. INSTALL OUTLET PROTECTION AS SHOWN ON PLANS AND DETAILS AS CROSS CULVERTS ARE INSTALLED AND IMMEDIATELY STABILIZE ROAD SIDE DITCHES WITH ROCK. STABILIZE THE ROAD WITH GEOTEXTILE FABRIC AND STONE AND SIDE SLOPES AS SPECIFIED WITH PERMANENT SEEDING. STOCKPILE AND STABILIZE EXCESS MATERIAL ALONG THE ACCESS ROAD, AS NEEDED.

11. ALL DITCH LINES SHALL BE CLEANED PRIOR TO INSTALLATION OF LINED PROTECTION. ALL DITCHES SHALL BE ROCK LINED WITH D60 + 6" MIN. SIZE RIPRAP UNLESS SPECIFIED OTHERWISE.

12. FINALIZE GRADING OF THE WELL PAD, AND AST PAD AREAS. IMMEDIATELY STABILIZE THE OUTER AREAS OF THE WELL PAD, AND AST PAD. THE PAD SHALL BE STABILIZED WITH GEOTEXTILE FABRIC AND STONE. STABILIZE ALL SIDE SLOPES WITH COCONUT EROSION CONTROL BLANKETS. APPLY SEED AND MULCH TO ALL DISTURBED AREAS. THIS SHALL BE INCLUDED IN ALL AREAS THAT WILL NOT BE SUBJECT TO REGULAR TRAFFIC ACTIVITY (TO BE STABILIZED WITH STONE), OR ANY DISTURBED AREA THAT WILL NOT BE RE-DISTURBED BEFORE SITE RECLAMATION BEGINS.

13. PREVIOUSLY DISTURBED AREAS AND IMMEDIATE DOWN SLOPE AREAS SHALL BE INSPECTED AFTER EACH RAINFALL STORM EVENT AND MONITORED WEEKLY FOR SIGNS OF ACCELERATED EROSION. IMPLEMENT ADDITIONAL BMPs AS DEEMED NECESSARY. THESE INSPECTIONS SHALL CONTINUE DURING THE DURATION OF THE PROJECT AND SUBSEQUENT SITE RECLAMATION.

14. COMMENCE THE DRILLING ACTIVITY.

15. DISTURBED AREAS ARE TO BE RE-VEGETATED AND STABILIZED FOLLOWING RECLAMATION. CONTINUE TO MONITOR THESE AREAS TO ENSURE A UNIFORM RATE OF 70% VEGETATIVE COVERAGE IS MAINTAINED. ANY AREAS FOUND TO BE DEFICIENT SHALL BE RE-SEEDING AND MULCHED. THE TEMPORARY E&S CONTROL BMPs MAY BE REMOVED UPON ACHIEVING 70% VEGETATIVE COVER, FOLLOWING APPROVAL FROM THE WVDEP.



04-23-2021  
THIS DOCUMENT HAS BEEN PREPARED BY A LICENSED GEOTECHNICAL ENGINEER FOR MOUNTAIN V OIL AND GAS

NOTES  
REED  
FINAL SITE PLAN  
DEKALB DISTRICT  
GILMER COUNTY, WV

DATE: 11-16-2021

SCALE: NOT TO SCALE

DESIGNED BY: C.P.M.

REVISION: 003

SHEET 7 OF 12

REV: 04-23-2021

# REED PAD FINAL SITE PLAN

## CONSTRUCTION NOTES

### WELL PAD CONSTRUCTION STANDARDS:

THE DESIGN, CONSTRUCTION, AND REMOVAL OF EMBANKMENTS ASSOCIATED WITH THE WELL PAD MUST BE ACCOMPLISHED IN SUCH A MANNER AS TO PROTECT THE HEALTH AND SAFETY OF THE PEOPLE, THE NATURAL RESOURCES, AND ENVIRONMENT OF THE STATE. THE EMBANKMENTS SHALL BE DESIGNED, CONSTRUCTED, AND MAINTAINED TO BE STRUCTURALLY SOUND AND REASONABLY PROTECTED FROM UNAUTHORIZED ACTS OF THIRD PARTIES.

1. THE FOUNDATION FOR THE WELL PAD MUST BE STRIPPED AND GRUBBED TO A MINIMUM DEPTH OF 2 FEET PRIOR TO PLACEMENT AND COMPACTION OF EARTHEN FILL MATERIAL. NO EMBANKMENT FILL SHALL BE PLACED ON FROZEN MATERIAL. REMOVE ROCK PIECES GREATER THAN 6 INCHES IN ANY DIMENSION. BACKFILL VOIDS CREATED BY REMOVAL OF ROCK

2. ANY SPRINGS ENCOUNTERED WITHIN THE FOUNDATION AREA SHALL BE DRAINED TO OUTSIDE/DOWNSTREAM TOE OF EMBANKMENT. SEEPAGE FROM SPRINGS TO BE COLLECTED AT THEIR ORIGINS IN COLLECTION PITS, WITH TRENCH DRAINS DIRECTING THE FLOW UNTIL THEY CAN BE OUTLETTED WELL BEYOND THE LIMITS OF THE FILL SLOPE. COLLECTION PITS SHOULD BE LINED WITH FILTER FABRIC AND BACKFILLED WITH CLEAN STONE OR RIPRAP. A SOLID PIPE SHOULD BE INSTALLED TO OUTLET THE SPRING FLOWS. BACKFILL AROUND THE OUTLET PIPE WITHIN TEN (10) FEET OF THE PIT SHOULD BE ACCOMPLISHED USING CLAY SOILS TO CREATE A RELATIVELY IMPERVIOUS WATER STOP.

3. SOILS FOR EARTHEN EMBANKMENT CONSTRUCTION SHALL BE LIMITED TO TYPES GC, GM, SG, SM, CL, OR ML (ASTM-D-2487 - UNIFIED SOILS CLASSIFICATION). SOILS MUST CONTAIN A MINIMUM OF 20% PP PLUS NO. 200 MATERIAL AND BE "WELL GRADED" WITH NO COBBLES OR BOULDER SIZE MATERIAL MIXED WITH CLAY. A MINIMUM OF THREE SAMPLES SHALL BE CLASSIFIED.

4. THE EARTHEN EMBANKMENT SHALL BE COMPACTED BY A VIBRATING SHEEPSFOOT ROLLER FOLLOWED BY A SMOOTH DRUM VIBRATING ROLLER. THE LIFTS MUST BE IN HORIZONTAL LAYERS WITH A MAXIMUM LOOSE LIFT THICKNESS OF 10" AND MAXIMUM PARTICLE SIZE LESS THAN 6". ALL FILL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST (ASTM-D-698) LIFTS WITHIN (3) FEET OF FINAL SUBGRADE AND ALL FILL WITHIN THE SOUTH EMBANKMENT OF THE WELL PAD ARE TO ACHIEVE 98% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST (ASTM-D-698). ALL SOIL TO BE WITHIN 3%± OF OPTIMUM MOISTURE CONTENT FOR COMPACTION.

5. ALL FILL MATERIAL SHALL BE FREE OF WOOD, STUMPS AND ROOTS, LARGE ROCKS AND BOULDERS, AND ANY OTHER NONCOMPACTABLE SOIL MATERIAL. THE EMBANKMENT SHALL BE COMPACTED TO A MINIMUM OF VISIBLE NON-MOVEMENT. THE MINIMUM SIDESLOPES SHALL BE 2H:1V, UNLESS OTHERWISE SPECIFIED.

6. ALL EXPOSED EMBANKMENT SLOPES, NOT COVERED BY COMPACTED ROCK FILL OR RIP-RAP SHALL BE LIMED, FERTILIZED, SEEDED AND MULCHED. PERMANENT VEGETATIVE GROUND COVER IN COMPLIANCE WITH THE WVDEP EROSION AND SEDIMENT CONTROL FIELD MANUAL MUST BE ESTABLISHED UPON THE COMPLETION OF THE PAD CONSTRUCTION. EMBANKMENTS SHALL BE MAINTAINED WITH A GRASSY VEGETATIVE COVER AND FREE OF BRUSH AND/OR TREES. USE 10-20-20 FERTILIZER FOR PERMANENT VEGETATION. SEE THE REVEGETATION INFORMATION PROVIDED IN THIS PLAN FOR FURTHER INFORMATION.

7. ROCK FILL LIFTS WILL BE NO GREATER THAN 24 INCHES.

### SITE CLEANUP & RECYCLE PROGRAM

1. GARBAGE, FUELS OR ANY SUBSTANCE HARMFUL TO HUMAN, AQUATIC OR FISH LIFE, WILL BE PREVENTED FROM ENTERING STREAMS, PONDS, LAKES, WETLANDS OR ANY WATER COURSE OR WATER BODY.

2. OILS, FUELS, LUBRICANTS AND COOLANTS WILL BE PLACED IN SUITABLE CONTAINERS AND DISPOSED PROPERLY.

3. ALL TRASH AND GARBAGE WILL BE COLLECTED AND DISPOSED PROPERLY.

4. ALL SEDIMENT REMOVED FROM SEDIMENT CAPTURING DEVICES SHALL BE PLACED ON THE TOPSOIL STOCKPILE, THEN SEEDED AND MULCHED, AS NECESSARY. ALTERNATIVELY, THE REMOVED SEDIMENT CAN BE TRANSPORTED TO A SITE WITH AN APPROVED PERMIT.

### CONSTRUCTION NOTES:

1. THE CONTRACTOR IS TO VERIFY FIELD CONDITIONS PRIOR TO AND DURING CONSTRUCTION AND WILL NOTIFY SLS LAND & ENERGY DEVELOPMENT (304) 482-2634 IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE APPROVED PLAN. ANY WORK PERFORMED BY THE CONTRACTOR AFTER THE FINDING OF SUCH DISCREPANCIES SHALL BE DONE AT THE CONTRACTOR'S RISK.

2. METHODS AND MATERIALS USED IN THE CONSTRUCTION OF THE IMPROVEMENTS HEREIN SHALL CONFORM TO THE CURRENT COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS AND/OR CURRENT WVDEP EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL STANDARDS AND SPECIFICATIONS. SHOULD A CONFLICT BETWEEN THE DESIGN, SPECIFICATIONS, AND PLANS OCCUR, THE MOST STRINGENT REQUIREMENT WILL APPLY. THE APPROVAL OF THESE PLANS IN NO WAY RELIEVES THE DEVELOPER OR HIS AGENT OF THE RESPONSIBILITIES CONTAINED IN THE WVDEP EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL.

3. AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE.

4. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING MUD FROM TRUCKS AND/OR OTHER EQUIPMENT PRIOR TO ENTERING PUBLIC STREETS, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS, ALLAY DUST, AND TO TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT THE STREETS ARE MAINTAINED IN A CLEAN, MUD- AND DUST-FREE CONDITION AT ALL TIMES.

5. THE LOCATION OF EXISTING UTILITIES SHOWN IN THESE PLANS ARE FROM FIELD LOCATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES AS NEEDED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY CONFLICTS ARISING FROM THIS EXISTING UTILITY VERIFICATION AND THE PROPOSED CONSTRUCTION.

6. THE CONTRACTOR SHALL PROVIDE NOTIFICATION TO THE APPROPRIATE UTILITY COMPANY PRIOR TO CONSTRUCTION OF WATER AND/OR GAS PIPELINES. INFORMATION SHOULD ALSO BE OBTAINED FROM THE APPROPRIATE AUTHORITY CONCERNING PERMITS, CUT SHEETS, AND CONNECTIONS TO EXISTING LINES.

7. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGES TO THE EXISTING STREETS AND UTILITIES WHICH OCCUR AS A RESULT OF THIS CONSTRUCTION PROJECT WITHIN OR CONTIGUOUS TO THE EXISTING RIGHT-OF-WAY.

8. WHEN GRADING IS PROPOSED WITHIN EASEMENTS OF UTILITIES, LETTERS OF PERMISSION FROM ALL INVOLVED COMPANIES MUST BE OBTAINED PRIOR TO GRADING AND/OR SITE DEVELOPMENT.

9. THE DEVELOPER WILL BE RESPONSIBLE FOR THE RELOCATION OF ANY UTILITIES WHICH IS REQUIRED AS A RESULT OF THIS PROJECT. THE RELOCATION SHOULD BE DONE PRIOR TO CONSTRUCTION.

10. THESE PLANS IDENTIFY THE LOCATION OF ALL KNOWN GRAVE SITES. GRAVE SITES SHOWN ON THIS PLAN WILL BE PROTECTED IN ACCORDANCE WITH WEST VIRGINIA STATE LAW. IN THE EVENT GRAVE SITES ARE DISCOVERED DURING CONSTRUCTION, THE OWNER AND ENGINEER MUST BE NOTIFIED IMMEDIATELY.

11. THE CONTRACTOR(S) SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITY LINES IN THE AREA OF PROPOSED EXCAVATING OR BLASTING AT LEAST TWO (2) WORKING DAYS, BUT NOT MORE THAN TEN (10) WORKING DAYS, PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION.

12. CONTRACTOR IS TO CONTACT OPERATOR AND ENGINEER IF GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION. THE ENGINEER OR SURVEYOR IS NOT RESPONSIBLE FOR ANY BURIED WATER WELLS, SPRINGS OR ANY OTHER FEATURES UNCOVERED DURING CONSTRUCTION.

13. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE EROSION AND SEDIMENT CONTROL INSPECTOR 2 DAYS PRIOR TO THE START OF CONSTRUCTION.

14. ALL MATERIAL TESTS SHALL BE CONDUCTED BY A CERTIFIED MATERIALS TESTING LABORATORY AND A CERTIFICATION OF THE MATERIALS TESTED SHALL BE PROVIDED BY A LICENSED PROFESSIONAL ENGINEER REPRESENTING THE LABORATORY. ALL TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER CERTIFYING THE CONSTRUCTED FACILITY. FAILURE TO CONDUCT THE DENSITY TEST SHALL BE CAUSE FOR NON-ACCEPTANCE OF THE CONSTRUCTED FACILITY.

15. SATISFACTORY MATERIALS FOR USE AS FILL FOR PAD AREAS INCLUDE MATERIALS CLASSIFIED BY ASTM D-2487 AS GM, GC, SM, SC, ML AND CL. MOISTURE CONTENT WILL BE CONTROLLED IN ACCORDANCE WITH THE STANDARD PROCTOR TEST (ASTM-D698) RESULTS. UNSATISFACTORY MATERIALS INCLUDE MATERIALS CLASSIFIED BY ASTM D-2487 AS PT, CH, MH, OL, OH, AND ANY SOIL TOO WET TO FACILITATE COMPACTION. CH AND MH SOILS MAY BE USED SUBJECT TO APPROVAL OF THE ENGINEER. SOILS SHALL HAVE A MINIMUM DRY DENSITY OF 92 LB/CF PER ASTM D-698 AND SHALL HAVE A PLASTICITY INDEX LESS THAN 20.

16. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING THE SITE IN ACCORDANCE WITH THE DESIGN PLANS AND CONSTRUCTION DOCUMENTS AND THE SCOPE OF WORK SHALL CONFORM WITH THE GRADES, BERMS, DEPTHS, DIMENSIONS, ETC. SHOWN HEREON.



THIS DOCUMENT WAS PREPARED BY THE FIRM & CHECKED BY THE ENGINEER FOR MOUNTAIN VIEW OIL & GAS, INC.

NOTES:  
REED  
FINAL SITE PLAN  
DEKALB DISTRICT  
GLICKER COUNTY, WV

DATE: 11-10-2021  
SCALE: NOT TO SCALE  
DESIGNED BY: C.M.  
FILE NO.: 0001  
SHEET: 1 OF 12  
REV: 01-01-2021

# REED PAD FINAL SITE PLAN

## CONSTRUCTION NOTES

### CONSTRUCTION NOTES CONTINUED:

PROCEDURES WHICH ENSURE THAT THE PROPER MEASURES FOR THE RECYCLING OR DISPOSAL OF MATERIALS ASSOCIATED WITH THE PROJECT SITE WILL BE UNDERTAKEN IN ACCORDANCE WITH THIS TITLE

THE RECYCLING AND DISPOSAL OF MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. COMPLY WITH AIR QUALITY, WATER QUALITY, SOLID WASTE MANAGEMENT POLICIES, ETC. CONSTRUCTION WASTES MAY INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

- \* EXCESS SOIL MATERIALS (1)
- \* TREES, SHRUBS AND BRUSH REMOVED DURING CLEARING AND GRUBBING (2)
- \* SANITARY WASTES (3)
- \* CONCRETE WASH WATER (3)
- \* PACKAGING MATERIALS (WOOD, PAPER, PLASTIC, STYROFOAM, ETC.) (3) SCRAP OR SURPLUS BUILDING MATERIALS (METALS, RUBBER, PLASTIC, GLASS, MASONRY PRODUCTS, AND OTHER SOLID WASTE MATERIALS) (3)
- \* PETROLEUM PRODUCTS, PAINT AND THINNERS, CLEANING SOLVENTS, CURING COMPOUNDS AND SIMILAR MATERIALS (3)
- \* DEMOLITION DEBRIS (3)

1. UNLESS OTHERWISE DIRECTED, EXCESS SOIL AND EXCAVATED MATERIAL MAY BE USED FOR FILL MATERIAL ON SITE OR OFF SITE. COORDINATE WITH OWNER AND AGENCIES HAVING JURISDICTION.
2. TREES, SHRUBS AND BRUSH SHALL BE CHIPPED WHEN POSSIBLE AND REUSED AS MULCH. DO NOT BURN WITHOUT PERMISSION.
3. WHERE POSSIBLE WASTES SHALL BE RECYCLED. WHERE NOT PRACTICAL, WASTES SHALL BE PROPERLY DISPOSED OF AT A PERMITTED LANDFILL FACILITY. THE CONTRACTOR IS ENCOURAGED TO CONSULT THE RECYCLING HOTLINE OR LOCAL SOLID WASTE MANAGEMENT AGENCY.

CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- \* NEAT, ORDERLY AND CENTRALIZED STORAGE OF MATERIALS AND WASTES
- \* CONTROL OF LITTER PROVIDING CONTAINERS WITH LIDS IF NEEDED
- \* REGULAR DISPOSAL
- \* PROMPT CLEANUP OF ANY SPILLS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS OR IN ACCORDANCE WITH REGULATORY REQUIREMENTS. UTILIZE A SPECIALTY FIRM IF REQUIRED.
- \* PROMPT CLEANUP OF SEDIMENTS WITHIN THE SITE AND ONTO ADJACENT ROADWAYS. PROPER TRAFFIC CONTROL MUST BE UTILIZED WHEN WORKING WITHIN THE ROADWAY.
- \* KEEP DUST WITHIN TOLERABLE LIMITS BY USING WATER OR OTHER APPROVED DUST SUPPRESSERS.

MAINTENANCE PROGRAM WHICH PROVIDES FOR INSPECTION OF BMPs ON A WEEKLY BASIS AND AFTER EACH MEASURABLE RAINFALL EVENT INCLUDING THE REPAIR OF THE BMPs TO ENSURE EFFECTIVE AND EFFICIENT OPERATION

IT SHALL BE THE RESPONSIBILITY OF THE OWNER'S CONTRACTOR TO MAINTAIN THE TEMPORARY CONTROL DEVICES. THE DEVICES SHALL BE REGULARLY INSPECTED ON A WEEKLY BASIS AND AFTER EVERY STORM EVENT, AND THE REPAIR OR REPLACEMENT OF BMPs SHALL BE PROVIDED AS NECESSARY TO ENSURE EFFECTIVE AND EFFICIENT OPERATION. A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ALL BMP REPAIR, REPLACEMENT, AND MAINTENANCE ACTIVITIES SHALL BE PREPARED AFTER EACH INSPECTION AND BE AVAILABLE UPON REQUEST. THE FOLLOWING ARE SOME TYPICAL MAINTENANCE ITEMS:

#### PUMPED-FILTER BAG

- \* A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED.
- \* FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME HALF FULL.
- \* SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED.
- \* FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

#### ROCK CONSTRUCTION ENTRANCE

- \* THE STRUCTURE'S THICKNESS WILL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSION BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PUBLIC ROADWAYS WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. WASHING OF THE ROADWAY WITH WATER IS NOT PERMITTED.

#### COMPOST FILTER SOCK

- \* COMPOST FILTER SOCK SHOULD BE INSPECTED ON A WEEKLY BASIS AND WITHIN 24 HOURS OF A MAJOR RUNOFF EVENT.
- \* IF PONDING BECOMES EXCESSIVE, ADDITIONAL COMPOST FILTER SOCK MAY BE REQUIRED TO REDUCE THE EFFECTIVE SLOPE LENGTH OR SEDIMENT REMOVAL MAY BE NECESSARY.
- \* SEDIMENT ACCUMULATED AT 1/2 OF THE EFFECTIVE HEIGHT SHALL BE REMOVED OR A NEW COMPOST FILTER SOCK CAN BE PLACED ON TOP OF AND SLIGHTLY BEHIND THE EXISTING COMPOST FILTER SOCK WITHOUT CREATING ANY ADDITIONAL DISTURBANCE.
- \* DAMAGED COMPOST FILTER SOCK SHALL BE REPLACED IN ITS ENTIRETY, OR SECTION REPLACED WITH A ROCK FILTER OUTLET IF POSSIBLE.
- \* NEEDED REPAIRS SHOULD BE INITIATED IMMEDIATELY AFTER THE INSPECTION.

#### GENERAL MAINTENANCE

- \* REPAIR, RESEED, AND REMULCH ANY AREAS THAT ERODE PRIOR TO FINAL STABILIZATION. FINAL STABILIZATION WILL BE ACHIEVED WHEN THERE IS A UNIFORM VEGETATIVE COVER OR DENSITY OF 70% ACROSS THE DISTURBED AREA.
- \* THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE MEASURES TO ENSURE THAT SEDIMENT IS NOT DEPOSITED ON PUBLIC WALKS OR ROADWAYS. IF ANY SEDIMENT IS DEPOSITED ON PUBLIC WALKS OR ROADWAYS, IT SHALL BE REMOVED AND RETURNED TO THE SITE DAILY. DISPOSED OF IN LOW AREAS AND IMMEDIATELY SEEDED AND MULCHED.
- \* CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING TEMPORARY DIVERSIONS OR UTILIZING OTHER MEANS TO CONTROL SURFACE OR GROUNDWATER DURING CONSTRUCTION.



THIS DOCUMENT WAS PREPARED BY SEE AND I ENGINEERING DEVELOPMENT  
 2025 WEST VIRGINIA AVE. SUITE 100  
 CHARLOTTE, NC 28203

NOTES  
**REED**  
**FINAL SITE PLAN**  
 DECALB DISTRICT  
 GILMER COUNTY, WV

DATE: 11-19-2021

SCALE: NOT TO SCALE

DESIGNED BY: U.M.

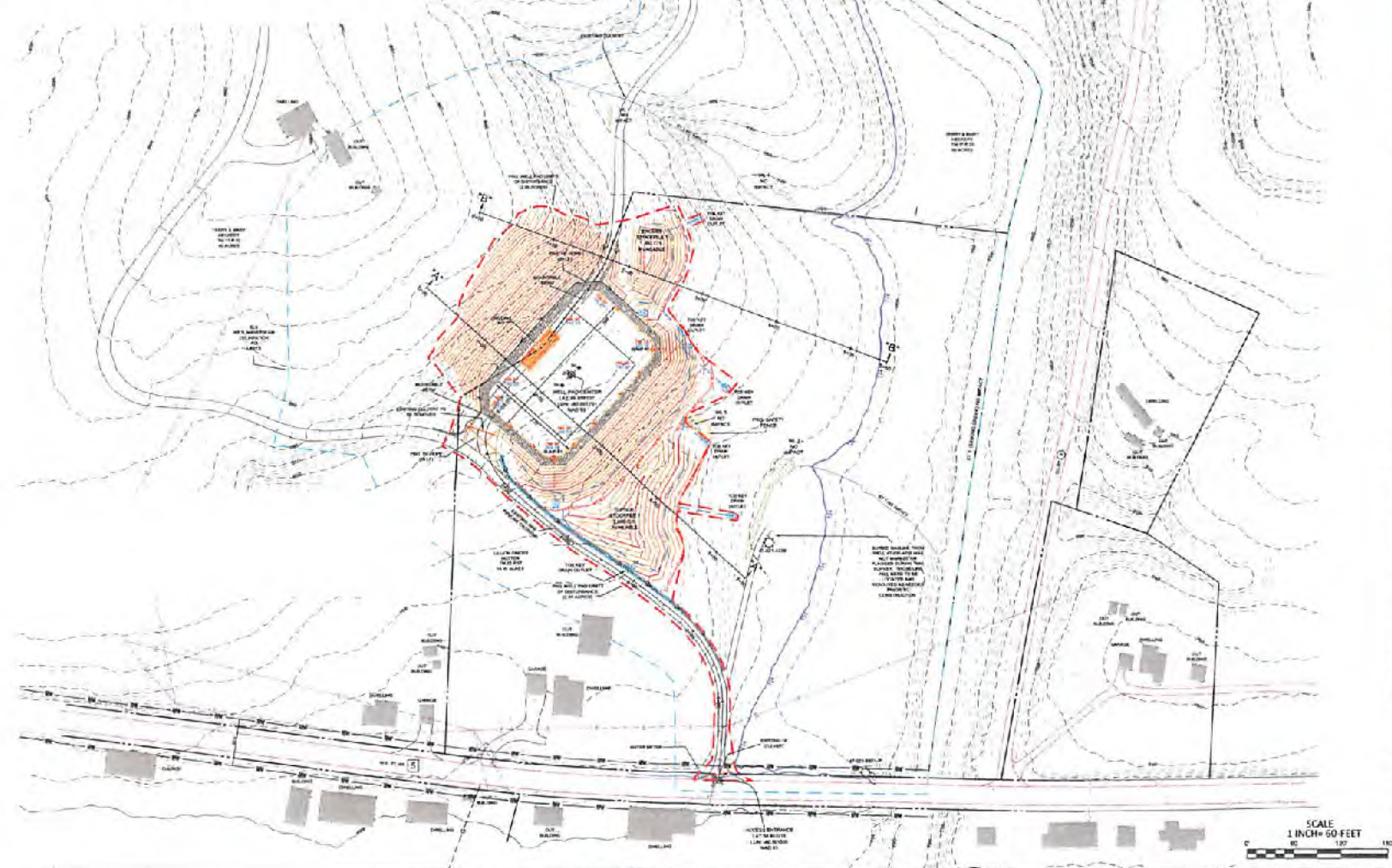
FILE NO.: 2021

SHEET 8 OF 11

REV: 03-03-2022

# REED PAD FINAL SITE PLAN MOUNTAIN V OIL AND GAS, INC.

GRID NORTH (NAD83) AND  
STATE PLANE (NAD83) COORDINATES  
SHOWN FOR ALL POINTS  
STATIONED AT 100' INTERVALS  
UNLESS OTHERWISE NOTED



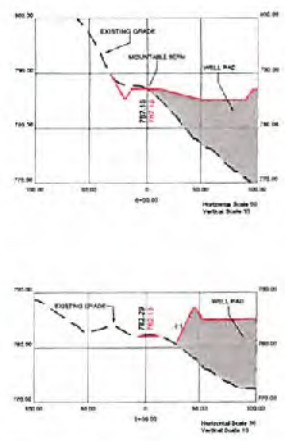
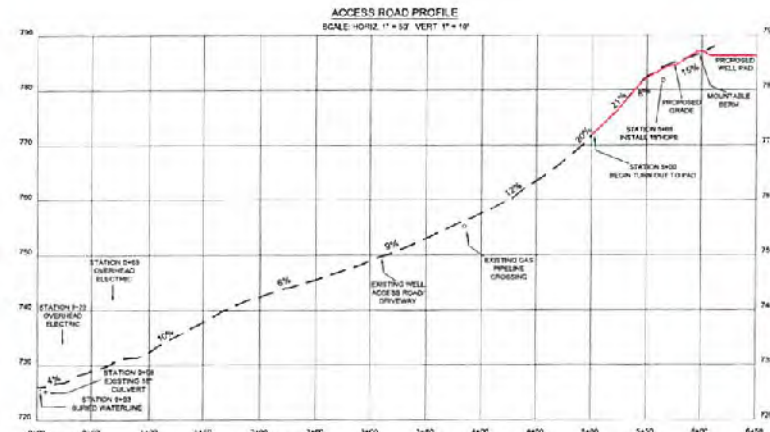
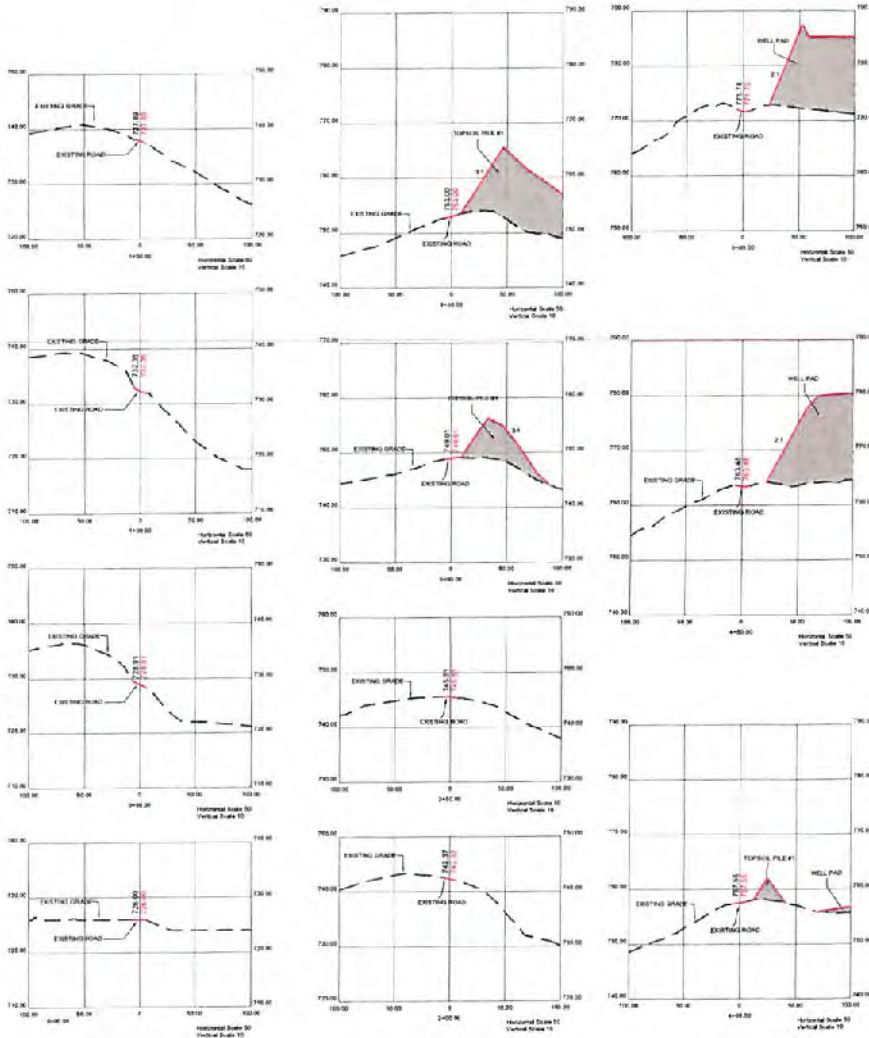
FOR MOUNTAIN V OIL AND GAS

WELL PAD AND ACCESS ROAD  
**REED  
REED  
FINAL SITE PLAN**  
DEKALB DISTRICT  
GILMER COUNTY, WV

DATE: 11-16-2021  
SCALE: 1" = 60'  
DESIGNED BY: C.P.M.  
FILE NO: 3053  
SHEET 5 OF 12  
REV: 04/24/2022



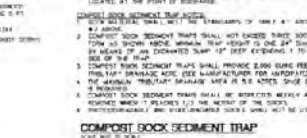
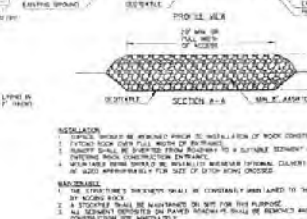
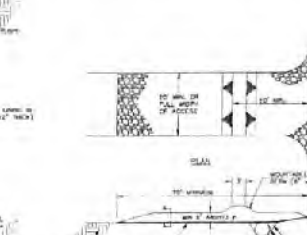
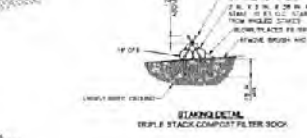
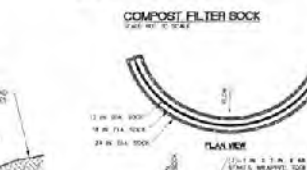
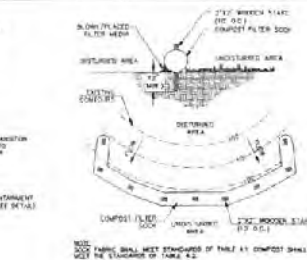
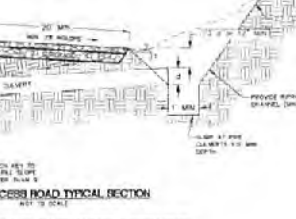
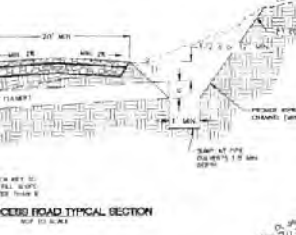
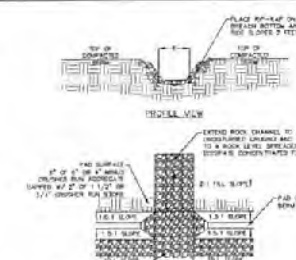
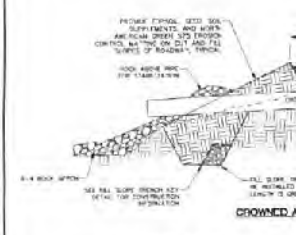
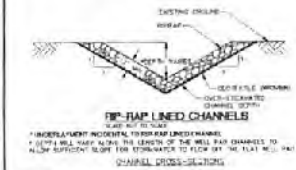
# REED PAD FINAL SITE PLAN



03.03.2022  
 THE DOCUMENT HAS  
 BEEN REVIEWED BY SLS AND  
 IS CORRECT AS SHOWN  
 FOR MOUNTAIN OIL & GAS INC.

MAIN ACCESS ROAD PROFILE & SECTIONS  
**REED**  
 FINAL SITE PLAN  
 DECALB DISTRICT  
 GILMER COUNTY, WV

DATE: 11-10-2021  
 SCALE: AS SHOWN  
 DESIGNED BY: G.P.M.  
 FILE NO: 8003  
 SHEET # OF 12  
 REV: 03-03-2022



**TABLE 4.1**  
TYPICAL SOILS CLASSIFICATION BY USE

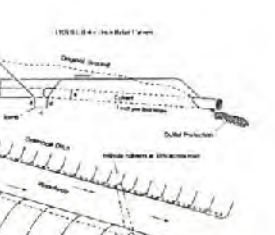
FABRIC TYPE	3 IN. HOLES		4 IN. HOLES		6 IN. HOLES		8 IN. HOLES	
	PERCENT OPENINGS	PERCENT FINER	PERCENT OPENINGS	PERCENT FINER	PERCENT OPENINGS	PERCENT FINER	PERCENT OPENINGS	PERCENT FINER
SLICK	17	17	17	17	17	17	17	17
STANDARD	17	17	17	17	17	17	17	17
HEAVY DUTY	17	17	17	17	17	17	17	17
STANDARD	17	17	17	17	17	17	17	17
HEAVY DUTY	17	17	17	17	17	17	17	17

**TABLE 4.2**  
COMPOSITE FILTER SOCK PLACEMENT

SOIL TYPE	SOCK TYPE	SOCK SIZE	SOCK SPACING	SOCK HEIGHT
CLAY	STANDARD	24" x 24"	12"	12"
SILT	STANDARD	24" x 24"	12"	12"
SAND	STANDARD	24" x 24"	12"	12"
GRAVEL	STANDARD	24" x 24"	12"	12"
COARSE SAND	STANDARD	24" x 24"	12"	12"
FINE SAND	STANDARD	24" x 24"	12"	12"
SILT	STANDARD	24" x 24"	12"	12"
CLAY	STANDARD	24" x 24"	12"	12"

**TABLE 4.3**  
COMPOSITE FILTER SOCK PLACEMENT

SOIL TYPE	SOCK TYPE	SOCK SIZE	SOCK SPACING	SOCK HEIGHT
CLAY	STANDARD	24" x 24"	12"	12"
SILT	STANDARD	24" x 24"	12"	12"
SAND	STANDARD	24" x 24"	12"	12"
GRAVEL	STANDARD	24" x 24"	12"	12"
COARSE SAND	STANDARD	24" x 24"	12"	12"
FINE SAND	STANDARD	24" x 24"	12"	12"
SILT	STANDARD	24" x 24"	12"	12"
CLAY	STANDARD	24" x 24"	12"	12"



**Table 4.4: Pipe Sizes for Culverts Across Roads**

Span	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"
10'	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"
15'	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"	
20'	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"		
25'	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"			
30'	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"				
35'	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"					
40'	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"						
45'	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"							
50'	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"								
55'	72"	78"	84"	90"	96"	102"	108"	114"	120"									
60'	78"	84"	90"	96"	102"	108"	114"	120"										
65'	84"	90"	96"	102"	108"	114"	120"											
70'	90"	96"	102"	108"	114"	120"												
75'	96"	102"	108"	114"	120"													
80'	102"	108"	114"	120"														
85'	108"	114"	120"															
90'	114"	120"																
95'	120"																	
100'																		

**Table 4.5: Spacing of Culverts**

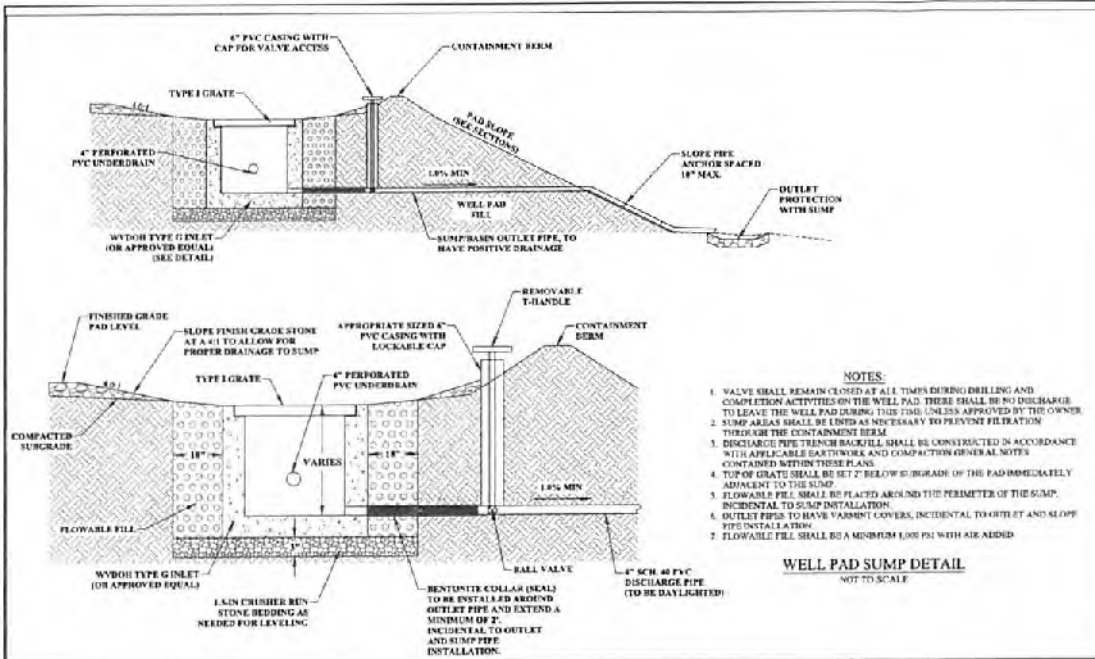
Span	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"
10'	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"
15'	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"	
20'	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"		
25'	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"			
30'	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"				
35'	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"					
40'	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"						
45'	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"							
50'	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"								
55'	72"	78"	84"	90"	96"	102"	108"	114"	120"									
60'	78"	84"	90"	96"	102"	108"	114"	120"										
65'	84"	90"	96"	102"	108"	114"	120"											
70'	90"	96"	102"	108"	114"	120"												
75'	96"	102"	108"	114"	120"													
80'	102"	108"	114"	120"														
85'	108"	114"	120"															
90'	114"	120"																
95'	120"																	
100'																		



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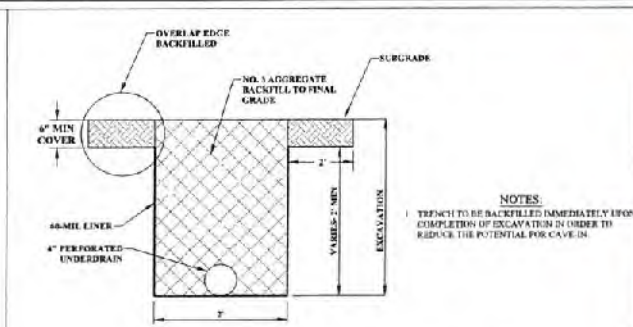
CONSTRUCTION DETAILS  
**REED**  
FINAL SITE PLAN  
DEARBORN DISTRICT  
GILMER COUNTY, WV

DATE: 11/16/2017  
SCALE: NOT TO SCALE  
DESIGNED BY: G.P.M.  
FILE NO: 0083  
SHEET: 3 OF 12  
REV: 03/03/2022



- NOTES:**
1. VALVE SHALL REMAIN CLOSED AT ALL TIMES DURING DRILLING AND COMPLETION ACTIVITIES ON THE WELL PAD. THERE SHALL BE NO DISCHARGE TO LEAVE THE WELL PAD DURING THIS TIME UNLESS APPROVED BY THE OWNER.
  2. SUMP AREAS SHALL BE LINED AS NECESSARY TO PREVENT FILTRATION THROUGH THE CONTAINMENT BERM.
  3. DISCHARGE PIPE TRENCH BACKFILL SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPLICABLE GARTHWORX AND COMPACTION GENERAL NOTES CONTAINED WITHIN THESE PLANS.
  4. TOP OF GRATE SHALL BE SET 2\"/>

**WELL PAD SUMP DETAIL**  
NOT TO SCALE



**WELL PAD TRENCH DRAIN DETAIL**  
NOT TO SCALE

**NOTES:**  
TRENCH TO BE BACKFILLED IMMEDIATELY UPON COMPLETION OF EXCAVATION IN ORDER TO REDUCE THE POTENTIAL FOR CAVE-IN.

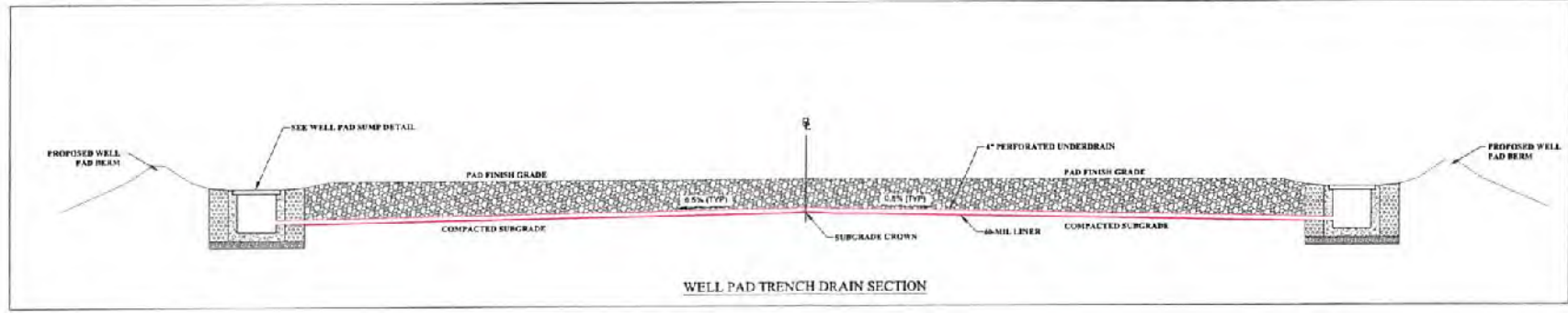
**VARMINT OUTLET COVER**



ALL OUTLET PIPES TO HAVE VARMINT COVERS, INCIDENTAL TO PIPE INSTALLATION.

WELL PAD SUMP 1 ELEVATIONS	
WELL PAD FINISH GRADE	786.10'
SUMP TOP GRATE(SURGRADE)	785.10'
SUMP INVERT IN	782.50'
SUMP INVERT OUT	781.90'

WELL PAD SUMP 2 ELEVATIONS	
WELL PAD FINISH GRADE	786.10'
SUMP TOP GRATE(SURGRADE)	785.10'
SUMP INVERT IN	782.60'
SUMP INVERT OUT	781.90'



**WELL PAD TRENCH DRAIN SECTION**



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CONSTRUCTION DETAILS  
**REED**  
FINAL SITE PLAN  
DEALS DISTRICT  
GILMER COUNTY, WV

DATE: 11-16-2021  
SCALE: NOT TO SCALE  
DESIGNED BY: C.P.M.  
FILE NO.: 9081  
SHEET: 11 OF 12  
REV: 03-03-2022



# REED PAD FINAL SITE PLAN MOUNTAIN V OIL AND GAS, INC.

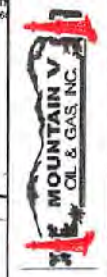
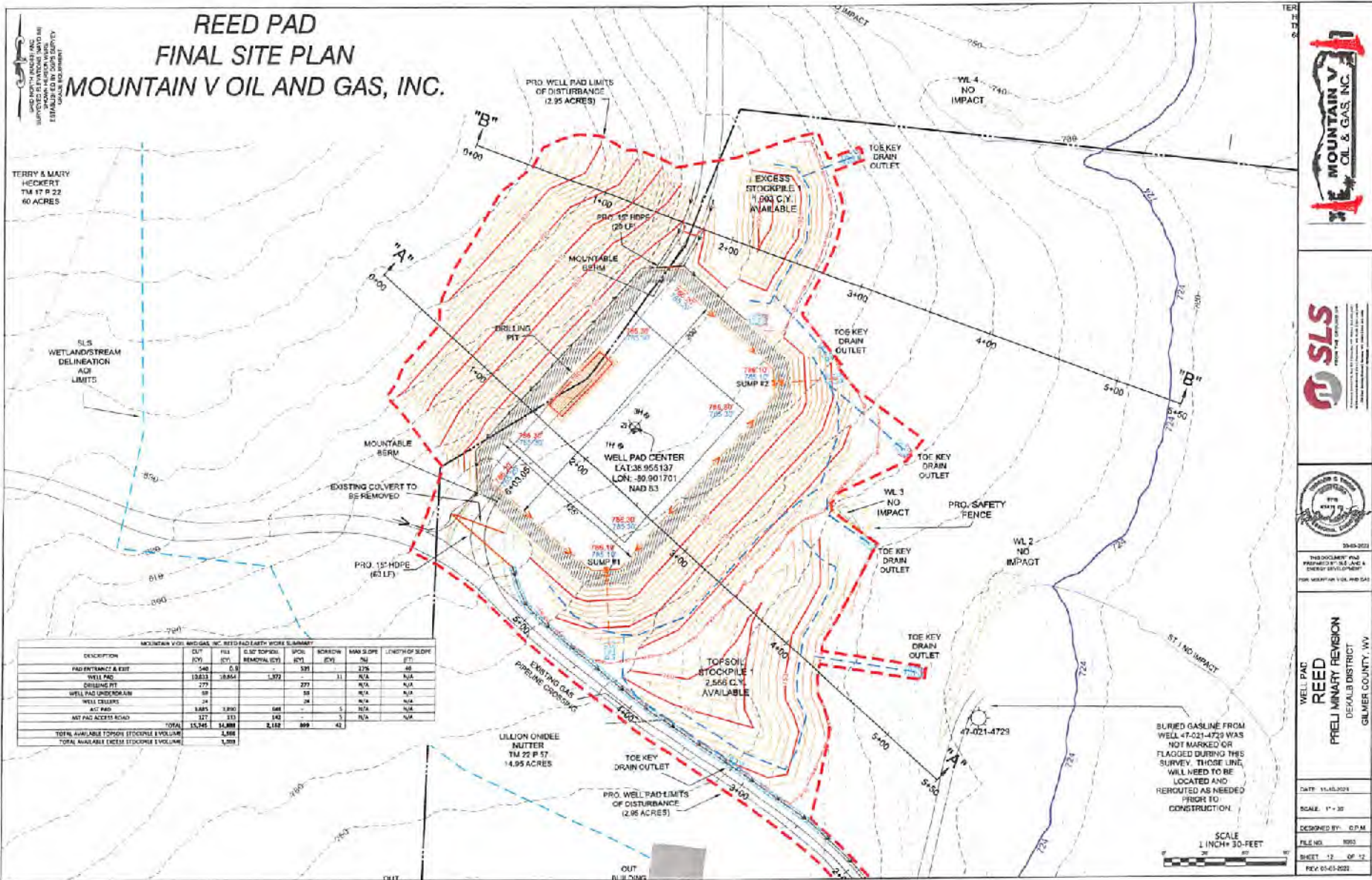
APPROVED BY STATE OF MISSISSIPPI  
EMERGENCY MANAGEMENT AGENCY  
MAJOR REQUIREMENT

TERRY & MARY  
HECKERT  
TM 17 P 22  
60 ACRES

SLS  
WETLAND/STREAM  
DELINEATION  
ADJ  
LIMITS

MOUNTAIN V OIL AND GAS, INC. REED PAD EARTH WORK SUMMARY

DESCRIPTION	CUT CY	FILL CY	CL. TOPSOIL REMOVAL (CY)	SPILL CY	BORROW CY	MAX. SLOPE %	LENGTH OF SLOPE FT
PAD ENTRANCE & EXIT	540	0.0	530	-	275	46	
WELL PAD	13833	18854	1372	-	31	N/A	N/A
EXISTING PIT	272	-	-	227	-	N/A	N/A
WELL PAD UNDERDRAIN	89	-	-	55	-	N/A	N/A
WELL CELLARS	24	-	-	24	-	N/A	N/A
AD PAD	1585	1390	68	-	3	75%	N/A
AD PAD ACCESS ROAD	127	113	142	-	3	N/A	N/A
<b>TOTAL</b>	<b>15,245</b>	<b>14,888</b>	<b>2,112</b>	<b>869</b>	<b>43</b>		
TOTAL AVAILABLE TOPSOIL STOCKPILE INVOLUME	2,888						
TOTAL AVAILABLE EXCESS STOCKPILE INVOLUME	3,289						



26-09-2021  
THIS DOCUMENT HAS  
BEEN PREPARED BY SLS AND IS  
ENERGY DEVELOPMENT  
FOR MOUNTAIN V OIL AND GAS

WELL PAD  
REED  
PRELIMINARY REVISION  
DECALB DISTRICT  
GULBER COUNTY, WV

DATE: 11/16/2021  
SCALE: 1" = 30'  
DESIGNED BY: G.P.M.  
FILE NO: 1005  
SHEET: 12 OF 12  
REV: 01-01-2021





Stansberry, Wade A &lt;wade.a.stansberry@wv.gov&gt;

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**Horizontal Well Work Permit API: 47-021-05796)**

1 message

**Stansberry, Wade A** <wade.a.stansberry@wv.gov>

Fri, Mar 4, 2022 at 3:24 PM

To: Mike Shaver &lt;smshaver@earthlink.net&gt;, Jamie Andrews &lt;jandrews@mountainvoilandgas.com&gt;, "Ward, Samuel D" &lt;samuel.d.ward@wv.gov&gt;, Melissa Jedamski &lt;mjedamski@wvassessor.com&gt;

I have attached a copy of the newly issued well [permit](#) number. This will serve as your copy.

**47-021-05796 - REED / WELL 1H WVO470**

If you have any questions, then [please](#) contact us here at the Office of Oil and Gas.

Thank you,

**Wade A. Stansberry**  
Environmental Resource Specialist 3  
West Virginia Department of Environmental Protection  
Office of Oil & Gas  
601 57th St. SE  
Charleston, WV 25304  
(304) 926-0499 ext. 41115  
(304) 926-0452 fax  
[Wade.A.Stansberry@wv.gov](mailto:Wade.A.Stansberry@wv.gov)

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**2 attachments**

**47-021-05796 - Copy.pdf**  
5635K

**IR-26 Blank.pdf**  
169K

**03/11/2022**