

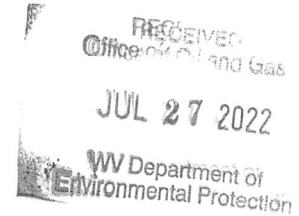
P.O. Box 470
Bridgeport, West Virginia 26330



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

July 22, 2022

WV DEP
Office of Oil & Gas
601 57th Street SE
Charleston, WV 25304



Re: **WR-35 & As-Drilled Plat:
Reed #1H WV0470, DeKalb District, Gilmer County, WV**

To Whom It May Concern,

Please find enclosed with this letter 2 copies of WV DEP form WR-35 and the as-drilled plat 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,

Brittany Ellyson
Mountain V Oil & Gas, Inc.

03/17/2023

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

API 47-021-05796 County Gilmer District Dekalb
Quad Tanner Pad Name _____ Field/Pool Name _____
Farm name L. Onidee Nutter Well Number Reed 1H WV0470
Operator (as registered with the OOG) Mountain V Oil & Gas, Inc.
Address P O Box 470 City Bridgeport State WV Zip 26330

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4311,798.40 Easting 508,513.91
Landing Point of Curve Northing 4,311,599.40 Easting 508,443.6
Bottom Hole Northing 4,310,876.00 Easting 508,775.8

Elevation (ft) 786' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)

Date permit issued 3-4-2022 Date drilling commenced 4-28-2022 Date drilling ceased 5-14-2022
Date completion activities began 5-23-2022 Date completion activities ceased 5-25-2022
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

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

Freshwater depth(s) ft none reported Open mine(s) (Y/N) depths N
Salt water depth(s) ft none Void(s) encountered (Y/N) depths N
Coal depth(s) ft _____ Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

APPROVED

Reviewed by:
Mount Leopold
3-15-23 03/17/2023

API 47- 021 - 05796 Farm name L. Onidee Nutter Well number Reed 1H WV0470

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	20"	16"	40'	New	55ppf PE		Y
Surface	15"	11-3/4"	254'	New	42ppf H-40		Y
Coal							
Intermediate 1	11"	8-5/8"	1756'	New	24ppf J-55		Y
Intermediate 2							
Intermediate 3							
Production	7-7/8"	4-1/2"	4793'	New	11.6ppf MT-80		Y
Tubing							
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A					Surface	
Surface	Class A	140	15.6	1.18	165.2	Surface	8
Coal							
Intermediate 1	Class A	510	15.6	1.18	601.8	Surface	8
Intermediate 2							
Intermediate 3							
Production	50/50 POZMIX	865	14.38	1.29	115.9	Surface	8
Tubing							

Drillers TD (ft) 4943' Loggers TD (ft) 4945'
 Deepest formation penetrated Weir - 1773' TVD Plug back to (ft) NA
 Plug back procedure NA

Kick off depth (ft) 1150'

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

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

8-5/8" - centralizers on jts 1, 2, 3, 4, 6, 8, 10, 12, 14, 40
4-1/2" - 36 rigid spiral centralizers on every 3rd jt from TD to 700'

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

API 47- 021 - 05796 Farm name L. Onidee Nutter Well number Reed 1H WV0470

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	5/18/22	4744'	4534'	30	Weir
2	5/24/22	4474'	4333'	30	Weir
3	5/24/22	4282'	4103'	30	Weir
4	5/24/22	4055'	3937'	30	Weir
5	5/24/22	3905'	3718'	30	Weir
6	5/24/22	3660'	3529'	30	Weir
7	5/24/22	3492'	3441'	30	Weir
8	5/24/22	3391'	3237'	30	Weir
9	5/24/22	3190'	3061'	30	Weir
10	5/24/22	3026'	2945'	30	Weir
11	5/25/22	2896'	2845'	30	Weir
12	5/25/22	2784'	2635'	30	Weir
13	5/25/22	2594'	2425'	30	Weir
14	5/25/22	2376'	2215'	30	Weir

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	5/23/22	61	4192	1600	1003	449	847	500 gal HCl
2	5/24/22	46	3958	1057	1425	454	1103	500 gal HCl
3	5/24/22	60	2873	1157	1371	445	754	500 gal HCl
4	5/24/22	61	3152	1604	1146	456	791	500 gal HCl
5	5/24/22	61	3111	2069	1067	451	802	500 gal HCl
6	5/24/22	60	3276	2215	1150	452	907	500 gal HCl
7	5/24/22	62	2661	2263	1197	531	838	500 gal HCl
8	5/24/22	61	2552	2423	1243	479	789	500 gal HCl
9	5/24/22	59	2701	2538	1387	470	777	500 gal HCl
10	5/24/22	60	2581	2608	1201	460	787	500 gal HCl
11	5/24/22	60	2304	2414	1071	522	837	500 gal HCl
12	5/25/22	60	2407	2350	1183	461	762	500 gal HCl
13	5/25/22	60	2427	2460	1056	501	771	500 gal HCl
14	5/25/22	60	2259	2601	1404	459	754	500 gal HCl

Please insert additional pages as applicable.

API 47- 021 - 05796 Farm name L. Onidee Nutter Well number Reed 1H WV0470

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Weir</u>	<u>1773' - 1840'</u> TVD	<u>1926' - 4945'</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 800 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 1808 mcfpd Oil 0 bpd NGL _____ bpd Water _____ bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
sand/shale	0	1435'	0	1441'	
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shale/lime	1455'	1504'	1460'	1517'	
Big Lime	1504'	1564'	1517'	1586'	
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Weir	1773'	1840'	1926'	4945'	

Please insert additional pages as applicable.

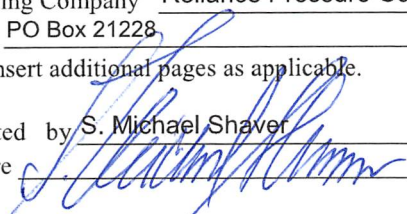
Drilling Contractor Highlands Drilling, LLC
Address 900 Virginia St E, Suite 500 City Charleston State WV Zip 25301

Logging Company Nine Downhole Technologies, LLC
Address 14800 Frye Road, 2nd Floor City Ft. Worth State TX Zip 76155

Cementing Company Lightning Energy Services, LLC
Address 104 Heliport Loop Rd City Bridgeport State WV Zip 26330

Stimulating Company Reliance Pressure Control
Address PO Box 21228 City Tulsa State OK Zip 74121

Please insert additional pages as applicable.

Completed by S. Michael Shaver Telephone 304-842-6320
Signature  Title President Date 07-19-2022

Submission of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

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

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Top hole Northing _____ Easting _____
Landing Point of Curve Northing _____ Easting _____
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Reviewed by: _____

03/17/2023

WR-35
Rev. 8/23/13

API 47-021-05796 Farm name L. Onidee Nutter Well number Reed 1H WV0470

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Intermediate 1	11"	8-5/8"	1756'	New	24ppf J-55		Y
Intermediate 2							
Intermediate 3							
Production	7-7/8"	4-1/2"	4793'	New	11.6ppf MT-80		Y
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API 47- 021 - 05796

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API 47- 021 - 05796 Farm name L. Onidee Nutter Well number Reed 1H WV0470

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_____	_____	_____
_____	_____	_____

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OPEN FLOW Gas 1808 mcfpd Oil 0 bpd NGL _____ bpd Water _____ bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
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Little Lime	1435'	1455'	1441'	1460'	
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Big Lime	1504'	1564'	1517'	1586'	
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shale	1664'	1773'	1710'	1926'	
Weir	1773'	1840'	1926'	4945'	

Please insert additional pages as applicable.

Drilling Contractor Highlands Drilling, LLC
Address 900 Virginia St E, Suite 500 City Charleston State WV Zip 25301

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Cementing Company Lightning Energy Services, LLC
Address 104 Heliport Loop Rd City Bridgeport State WV Zip 26330

Stimulating Company Reliance Pressure Control
Address PO Box 21228 City Tulsa State OK Zip 74121

Please insert additional pages as applicable.

Completed by S. Michael Shaver Telephone 304-842-6320
Signature [Signature] Title President Date 07-19-2022

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

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

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

7,605' T.H. A.D. 6,749' B.H. A.D.

T.H. LONGITUDE 80°52'30"
 B.H. LONGITUDE 80°52'30"

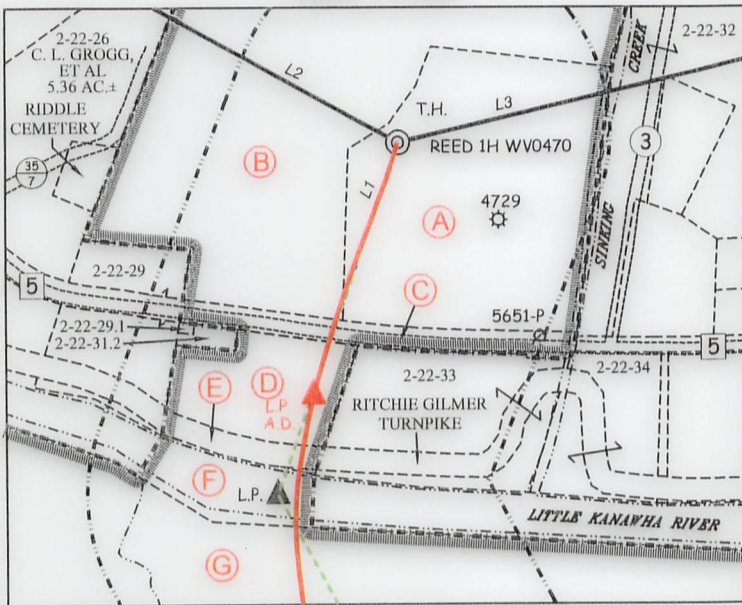
TAG	SURFACE OWNER	PARCEL	ACRES
A	LILLION ONIDEE NUTTER	2-22-57	14.95
B	TERRY J. & MARY E. HECKERT	2-17-22	60.00
C	WV ST. RT. 5	N/A	N/A
D	JACK DELBERT & ELLEN J. MCCUNE	2-22-31	3.06
E	RITCHIE GILMER TURNPIKE	N/A	N/A
F	LITTLE KANAWHA RIVER	N/A	N/A
G	ARBUCKLE RESOURCES GROUP LLC, ET AL	2-22-51	56.00
H	KENNETH 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. 1,996,444.33
NAD'83 GEO.	LAT-(N) 38.955098	LONG-(W) 80.901740
NAD'83 UTM (M)	N. 4,311,798.40	E. 508,513.91
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 711,058.8	E. 1,996,125.5
NAD'83 GEO.	LAT-(N) 38.952601	LONG-(W) 80.902864
NAD'83 UTM (M)	N. 4,311,521.2	E. 508,416.8
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 706,662.4	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

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'



AS DRILLED COORDINATES FOR WELL NO. 1H

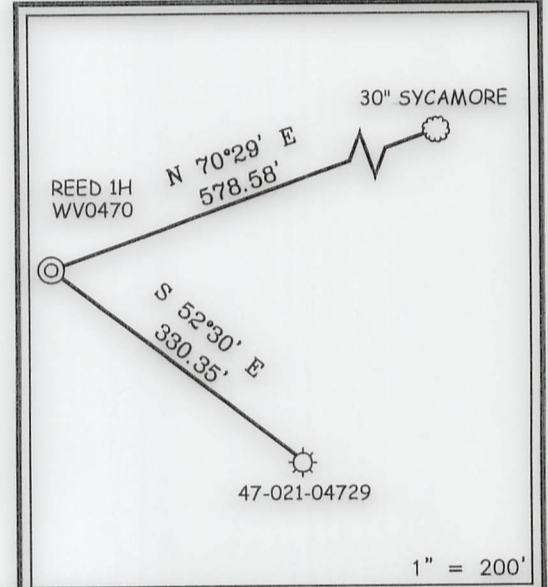
(S.P.C. SOUTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'83 S.P.C.(FT)	N. 711,968.69	E. 1,996,444.33
NAD'83 GEO.	LAT-(N) 38.955098	LONG-(W) 80.901740
NAD'83 UTM (M)	N. 4,311,798.40	E. 508,513.91
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 711,315.4	E. 1,996,220.0
NAD'83 GEO.	LAT-(N) 38.953305	LONG-(W) 80.902531
NAD'83 UTM (M)	N. 4,311,599.4	E. 508,445.6
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 708,941.0	E. 1,997,303.8
NAD'83 GEO.	LAT-(N) 38.946783	LONG-(W) 80.898729
NAD'83 UTM (M)	N. 4,310,876.0	E. 508,775.8

LEGEND

AS DRILLED	
PROPOSED	

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'
- AS-DRILLED DATA PROVIDED BY MOUNTAIN V OIL AND GAS
- PLAT UPDATED TO SHOW AS-DRILLED PATH.

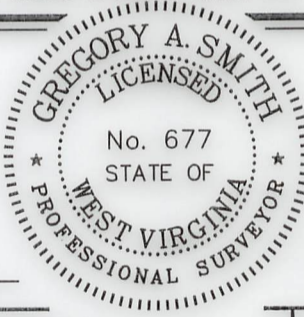


12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.482.5634
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.5952
 254 East Beckley Bypass | Beckley, WV 26001 | 304.255.5296
 slsvv.com

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

P.S.
 677

Gregory A. Smith



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

DATE DECEMBER 21, 20 21

REVISED JUNE 30, 20 22

OPERATORS WELL NO. REED 1H WV0470

API WELL NO. 47 - 021 - 05796
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 9093P1HAD.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' ELEVATION 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: LEASE NO. SEE WV-6A1

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD

FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) WEIR 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

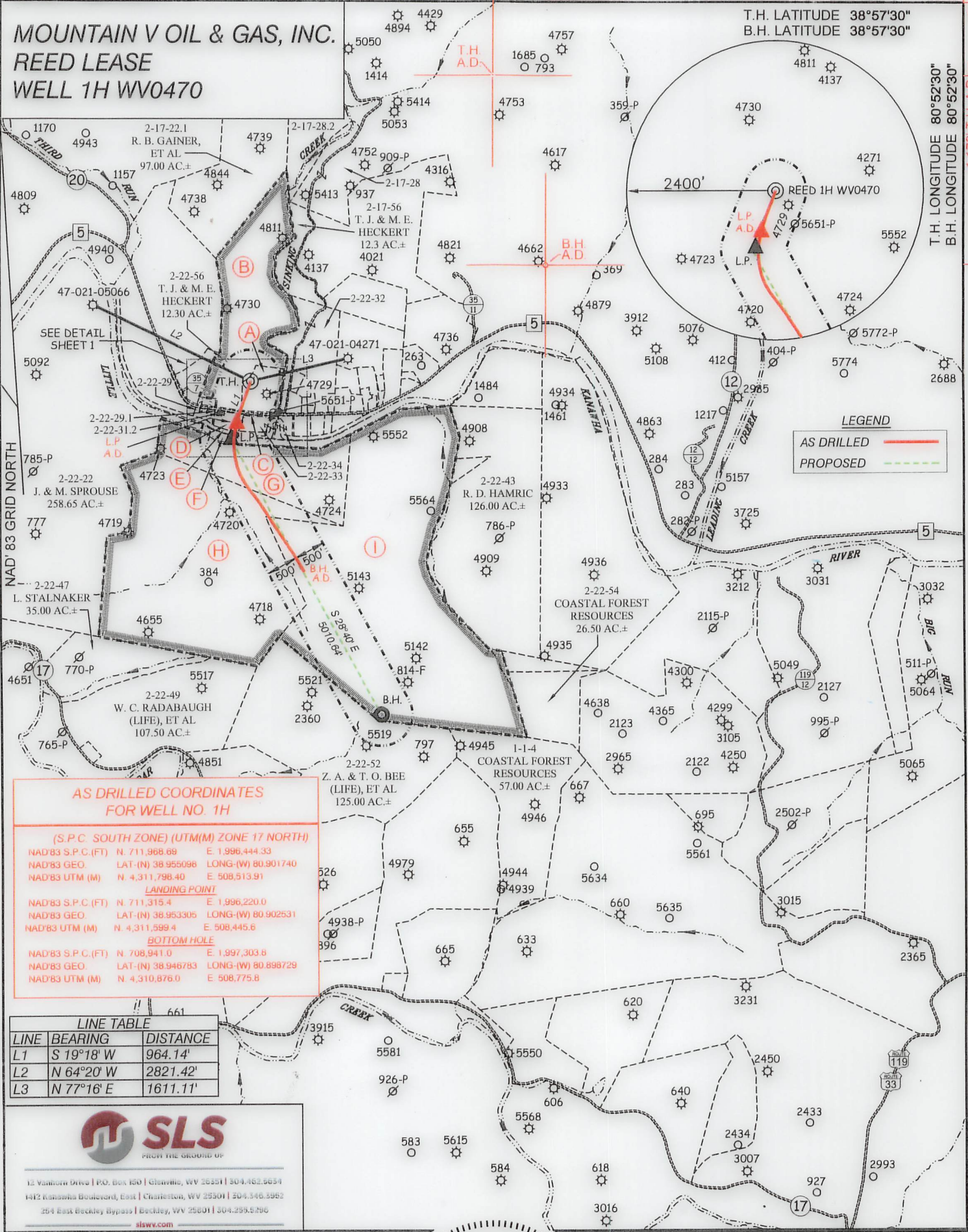
03/17/2023

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

7,605' T.H. A.D. 6,749' B.H. A.D.

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

T.H. LONGITUDE 80°52'30"
 B.H. LONGITUDE 80°52'30"



LEGEND

AS DRILLED ———
 PROPOSED - - - - -

AS DRILLED COORDINATES FOR WELL NO. 1H

(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
NAD'83 GEO.	LAT-(N) 38.955098	LONG-(W) 80.901740
NAD'83 UTM (M)	N. 4,311,798.40	E. 508,513.91

LANDING POINT

NAD'83 S.P.C.(FT)	N. 711,315.4	E. 1,996,220.0
NAD'83 GEO.	LAT-(N) 38.953305	LONG-(W) 80.902531
NAD'83 UTM (M)	N. 4,311,599.4	E. 508,445.6

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 708,941.0	E. 1,997,303.8
NAD'83 GEO.	LAT-(N) 38.946783	LONG-(W) 80.898729
NAD'83 UTM (M)	N. 4,310,876.0	E. 508,775.8

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'

12 Vanhook Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5634
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 204.346.5952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.295.5196
 slsw.com

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

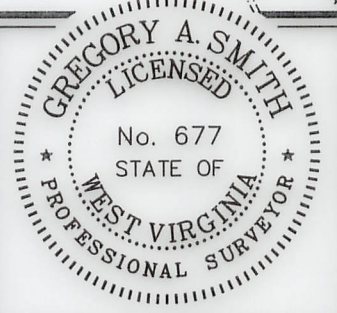
NAD'83 S.P.C.(FT)	N. 711,968.69	E. 1,996,444.33
NAD'83 GEO.	LAT-(N) 38.955098	LONG-(W) 80.901740
NAD'83 UTM (M)	N. 4,311,798.40	E. 508,513.91

LANDING POINT

NAD'83 S.P.C.(FT)	N. 711,058.8	E. 1,996,125.5
NAD'83 GEO.	LAT-(N) 38.952601	LONG-(W) 80.902864
NAD'83 UTM (M)	N. 4,311,521.2	E. 508,416.8

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 706,662.4	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



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

P.S. 677 *Gregory A. Smith*

SCALE 1" = 2000' FILE NO. 9093P1HAD.dwg

DATE DECEMBER 21, 20 21
 REVISED JUNE 30, 20 22

OPERATORS WELL NO. REED 1H WV0470
 API WELL NO. 47-021-05796
 NO. 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)	(A)
LEASE # (SEE WW-6A1)	

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