

#### west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Monday, May 20, 2019 WELL WORK PERMIT Vertical / New Drill

MOUNTAINEER STATE ENERGY, INC. 1603 LBJ FREEWAY, SUITE 300

DALLAS, TX 75234

Re: Permit approval for APLIN-DUVALL 351

47-035-03029-00-00

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.

James A. Martin

Chief

Operator's Well Number: APLIN-DUVALL 351

Farm Name:

WILLIAM AND DENISE DU

U.S. WELL NUMBER: 47-035-03029-00-00

Vertical New Drill

Date Issued: 5/20/2019



#### west virginia department of environmental protection

Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-926-0499 Ext 1274

Barry K. Lay, Chairman dep.wv.gov

May 2, 2019

Department of Environmental Protection Office of Oil and Gas Charleston, WV 25304

RE: Application for Deep Well Permit – API #47-035-03029

COMPANY: Mountaineer State Energy, Inc.

FARM: William and Dennise Duvall

Aplin-Duvall #351

COUNTY:

Jackson

DISTRICT: Grant

QUAD: Rockport

The deep well review of the application for the above company is Approved to drill to Oriskany for completion.

The applicant has complied with the provision of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

- 1. Comments to Notice of Deviation filed? NA
- 2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? NA
- 3. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: None
- 4. Provided a plat showing that the proposed location is a distance of 400+ feet from the nearest lease line or unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

Susan Rose Administrator

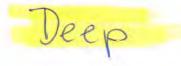
#### **PERMIT CONDITIONS**

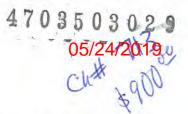
West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

#### **CONDITIONS**

- 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 on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

WW - 2B (Rev. 8/10)





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

1) Well Operato	r: Moun	taineer S	State Energy, Inc.	45650	Jackson	Grant	Rockport
	-			Operator ID	County	District	Quadrangle
2) Operator's W	/ell Numb	oer: <u># 351</u>			3) Elevation:	983'	_
4) Well Type: (a	a) Oil	or Ga	as X				
(b	) If Gas:	Produ	uction X / Unde	erground Sto	orage		
			p <u>X</u> / Sh	nallow			
<ol><li>Proposed To</li></ol>	tal Depth fresh wa	: 5150' ter strata	Peet F a depths: 200,400,500 1400-C1800'	ormation at I	Proposed Tar Proposed Tota	get Depth: _orio	5200' skany
9) Approximate	coal sea	m depth	s: N/A				RECEIVED of Oil and Gas
10) Approximate	e void de	pths,(co	al, Karst, other): <u></u>	N/A		FE	B 1 2 2019
D Drill and complete complete intermed	e vertical C	Oriskany w	nd fracturing methovell, if salt water enco	ountered@1800	O' switch to fluid	Environ	p to
TIFE 3	Size	Grade	V2.2	For Drilling	Left in Well	Fill -up (Cu	
Conductor	13 3/8"	J55	45#	1 Of Dilling	1 joint 42'	CT:	
Fresh Water	9 5/8	J55	#36		550	CT	
Coal	N/A	- 000	-		-	-	
Intermediate	7"	J55	23#	2700	2700	CTS 40	00 SX
Production	4 1/2	J55	11 1/2 #	5200	5200	3000 Fill l	Jp2 3/8
Tubing	2 3/8	J55	4.7#	5200			
Liners				- 0	200	1	
Packers: Kind Size Dept						8.18	

WW-2	2A
(Rev.	6-14)

1). Date: 2	112/19	7	_	
2.) Operator's Wel	l Number	# 351		
	State	County		Permit
3.) API Well No.:	47-	Jackson	-	

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

4)	Surface Ow	ner(s) to be served:	5)	(a) Coal Op	erator	
	(a) Name	William and Dennis	se Duvall	Name	Mountaineer State	Energy, Inc
	Address	724 Green Road	V	Address		
	/Is \ NIssans	Kenna WV 25248		/h\ CI C	)	
	(b) Name				wner(s) with Declaratio	n
	Address			Name Address	N/A	
		-		Address	-	RECEIVED
	(c) Name			Name	N/A	Office of Oil and Gas
	Address			Address	11//1	FER 1 9 2010
	71001000			/ Idai oco		FEB 1 3 2019
5)	Inspector	JOE TAYLOR	1	(c) Coal L	essee with Declaration	MACD and the said of
-		1478 Claylick Road	10%	Name		WV Department of Environmental Protection
		Ripley, WV 25271	3	Address		
	Telephone	304-380-7469				
		TO THE PER	RSONS NAME	D ABOVE T	AKE NOTICE THAT:	
		ne lease or leases or othe	er continuing cor	ntract or contr	acts by which I hold the ri	ght to extract oil and gas
OR			01 1 00 1		0/11 0 1 1111	1 / ( - 1 - 1 - 1 - 1 - 1 - 2 )
_	Contract to the second second second		the first contract of the second contract of	The second second second second	on 8(d) of the Code of Wes	
ani					ugh on the above nar	copies of this notice and
app	X	Personal Service (			agii oii the above hai	med parties by.
	7	Certified Mail (Post			ed)	
	-	Publication (Notice				
			oter 22-6 and 35	CSR 4, and	I agree to the terms and	d conditions of any permit
iss	ued under this			ú .		
44.						information submitted on
		orm and all attachments ormation, I believe that the				mediately responsible for
ODI						the possibility of fine and
ipar	prisonment		ing.	9	4	
1	SE WEST D	OFFICIAL SEAL M	/ell Operator	20	Mountaine	er State Energy In
1	Elita III	Notary Public State of West Virginia	By:	Johns	ter	
11	5 ( S.CO) 5	My Commission Expires	lts:	C.M	+ VIB	/ chi a want
1		September 17, 2019 705 Cypress Street	Address:	To Box	27 Sandyuill	e WV 25275
	383	Ravenswood, WV 26164	Telephone:	444.17	2.9313	
			Fmail:	Laul 6	1013	France Para
Su	bscribed and	sworn before me this 13	2th day of	nover	ntier , 20	Every Com
			, D ;	1000		
	4		Kinda	i, Thil	yaw Notary Public	
	Commission		Sep	tember	217 2019	
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 <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>

### COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Jackson		
Operator Mountaineer State Energy, Inc.	Operator's Well N	Number # 351
INSTRUCTIONS TO C	OAL OPERATOR,	OWNER, OR LESSEE
To the coal operator, owner, or le any objection you wish to make or are re with the Chief of the Office of Oil and Ga by the Office. Mail objections to:	quired to make by V	
Chief, Office of Oil and Gas Department of Environmental Protection 601 57 <sup>th</sup> St. SE		RECEIVED Office of Oil and Gas
Charleston, WV 25304 (304) 926-0499 extension 1654		FEB 1 2 2019
	WAIVER	WV Department of Environmental Protection
location has examined this proposed well location, the well location has been adde	I location. If a mine of to the mine map. If a more map. If a provided, the well	lessee N/A / of the coal under this well map exists which covers the area of well. The undersigned has no objection to the operator has complied with all applicable gulations.
FOR EXECUTION BY A NATURAL PERSON	F	OR EXECUTION BY A CORPORATION, ETC.
Date		Mountaineer State Energy, Inc.
Signature	By Its	Just Can Date
		Signature Date

#### 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 ATTICHED

DECLARATION

NOTICE OF UNITIZETION

RECEIVED

Office of Oil and Gas

FEB 1 2 2019

Environmental Protection

#### 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 he reby a cknowledges 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

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 ac quired from the appropriate aut hority before the affected activity is initiated.

Well Operator: By:Its: Mountaineen State Operations, Inc.

### West Virginia Secretary of State — Online Data Services

#### **Business and Licensing**

Online Data Services Help

### **Business Organization Detail**

NOTICE: The West Virginia Secretary of State's Office makes every reasonable effort to ensure the accuracy of information. However, we make no representation or warranty as to the correctness or completeness of the information. If information is missing from this page, it is not in the The West Virginia Secretary of State's database.

#### CARL E. SMITH PETROLEUM, INC.

Organizat	tion Info	rmation						
Org Type	Effective Date	Established Date	Filing Date	Charter	Class	Sec Type	Termination Date	Termination Reason
C   Corporation	4/14/1981		4/14/1981	Domestic	Profit		9/10/2008	Merger

Organizatio	on Information		
Business Purpose	2111 - Mining, Quarrying, Oil & Gas Extraction - Oil and Gas Extraction - Crude Oil and Natural Gas Extraction	Capital Stock	1000.0000
Charter County	Jackson	Control Number	0
Charter State	wv	Excess Acres	0
At Will Term		Member Managed	
At Will Term Years		Par Value	1.000000
Authorized Shares	1000	Young Entrepreneur	Not Specified

## 4703303029

Addresses		
Туре	Address	
Notice of Process Address	JAMES W. LANE, JR. 205 CAPITOL STREET, SUITE 400 CHARLESTON, WV, 25301 USA	
Principal Office Address	INTESECTION ROUTES 21 & 53 SANDYVILLE, WV, 25275 USA	
Туре	Address	

Officers	
Туре	Name/Address
Incorporator	CARL E. SMITH, INC. P. O. BOX 4 SANDYVILLE, WV, 25275
President	GENE S. BERTCHER INTERSECTION RTS. 21 & 53 SANDYVILLE, WV, 25275 USA
Secretary	OSCAR SMITH INTERSECTION RTS. 21 & 53 SANDYVILLE, WV, 25275 USA
Treasurer	GENE S. BERTCHER INTERSECTION RTS. 21 & 53 SANDYVILLE, WV, 25275 USA
Vice-President	OSCAR SMITH INTERSECTION RTS. 21 & 53 SANDYVILLE, WV, 25275 USA
Туре	Name/Address

Subsidiaries				
Name	Address	·	 	
				-

05/24/2019

Date		Amendment
9/1	0/2008	MERGER: MERGIN WITH AND INTO CARL E. SMITH, INC., A QUALIFIED WV CORPORATION, THE SURVIVOR
Date		Amendment

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For more information, please contact the Secretary of State's Office at 304-558-8000.

Wednesday, May 15, 2019 — 4:34 PM

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### West Virginia Secretary of State — Online Data Services

#### **Business and Licensing**

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### **Business Organization Detail**

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#### MOUNTAINEER STATE ENERGY, INC.

Organization Information														
Org Type	Effective Date	Established Date	Filing Date	Charter	Class	Sec Type	Termination Date	Termination Reason						
C   Corporation	5/26/1954		5/26/1954	Domestic	Profit									

Business Purpose	2111 - Mining, Quarrying, Oil & Gas Extraction - Oil and Gas Extraction - Crude Oil and Natural Gas Extraction	Capital Stock	100000.0000				
Charter County		Control Number	0				
Charter State	w	Excess Acres	0				
At Will Term		Member Managed					
At Will Term Years		Par Value	100.000000				
Authorized Shares	1000	Young Entrepreneur	Not Specified				

	4703503029								
Addresses									
Туре	Address								
Mailing Address	1603 LBJ FREEWAY, SUITE 300 DALLAS, TX, 75234 USA								
Notice of Process Address	NATIONAL REGISTERED AGENTS, INC. 5400 D BIG TYLER ROAD CHARLESTON, WV, 25313								
Principal Office Address	1603 LBJ FREEWAY, SUITE 300 DALLAS, TX, 75234 USA								
Туре	Address								

Officers	
Туре	Name/Address
Director	GENE S. BERTCHER 1603 LBJ FREEWAY, SUITE 300 DALLAS, TX, 75234
Incorporator	HARRY E. KENT SANDYVILLE, WV, 25275 USA
Incorporator	GLEN D. SMITH RAVENSWOOD, WV, 26164 USA
President	GENE BERTCHER 1603 LBJ FREEWAY SUITE 300 DALLAS, TX, 75234
Secretary	GENE S BERTCHER 1603 LBJ FREEWAY SUITE 300 DALLAS, TX, 75234
Treasurer	GENE S BERTCHER 1603 LBJ FREEWAY SUITE 300 DALLAS, TX, 75234
Vice-President	JOHN KENT 1755 WITTINGTON PLACE, SUITE 340 DALLAS, TX, 75234

05/24/2019

Type Name/Address 470 5 5 0 3 0 2 9

Name Changes		
Date	Old Name	
9/10/2008	CARL E. SMITH, INC.	
Date	Old Name	

Mergers													
Merger Date	Merged	Merged State	Survived	Survived State									
12/26/2001	ACQCO, INC.	WV	CARL E. SMITH, INC.	WV									
9/10/2008	CARL E. SMITH PETROLEUM, INC.	wv	CARL E. SMITH, INC.	WV									
9/10/2008	CARL E. SMITH REAL ESTATE, INC.	w	CARL E. SMITH, INC.	WV									
Merger Date	Merged	Merged State	Survived	Survived State									

Date	Amendment
9/10/2008	MERGER: MERGING CARL E. SMITH PETROLEUM, INC., A QUALIFIED WV CORPORATION WITH AND INTO CARL E. SMITH, INC., A QUALIFIED WV CORPORATION, THE SURVIVOR
9/10/2008	MERGER: MERGING CARL E. SMITH REAL ESTATE, INC., A QUALIFIED WV CORPORATION WITH AND INTO CARL E. SMITH, INC., A QUALIFIED WV CORPORATION, THE SURVIVOR
9/10/2008	NAME CHANGE: FROM CARL E. SMITH, INC.
12/26/2001	MERGER: MERGING ACQCO, INC., A QUALIFIED WV CORPORATION WITH AND INTO CARL E. SMITH, INC., A QUALIFIED WV CORPORATION, THE SURVIVOR
12/12/2001	AMENDMENT FILED CHANGING THE ADDRESS OF THE PRINCIPAL OFFICE.
7/24/1992	ADD - DECREASE IN STOCK FROM 100 SHARES AT A PAR VALUE OF \$100 TO 5,000 SHARES AT A \$1.00 PAR VALUE - TOTAL AUTHORIZED CAPITAL STOCK \$5,000.
4/7/1986	DECREASE: TO 10,000 SHARES AT PAR VALUE \$100.00

Date	Amendment
5/5/1955	DECREASE; TO \$25,000;
7/10/1968	AMENDMENT
12/1/1969	CHANGE OF NAME FROM C. E. SMITH AND SONS, INC. ROLL 30
12/9/1969	CHANGE OF NAME FROM CARL E. SMITH, INC. ROLL 30
3/9/1970	CHANGE OF NAME FROM SMITH COMPANY ROLL 33

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Wednesday, May 15, 2019 — 4:36 PM

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BOOK 0236 PAGE 158

#### DECLARATION - NOTICE OF UNITIZATION

Notice is hereby given that CARL E. SMITH PETROLEUM, INC., a West Virginia corporation, has pooled and unitized the gas leasehold estates, in the formations below the top of the Ononadaga Limestone in the foll05/24/2019 described leases, on the waters of McGraw of Left Fork of Sandy Creek in Grant District, Jackson County, West Virginia to form a drilling unit of 244.5 acres, more or less, for the production of oil or gas below the top of the Ononadaga Limestone from the Oriskany Sandstone formation, to-wit:

#### CARL E. SMITH PETROLEUM, INC. LEASES

LEASE NO. 3649.1: (Net acres in unit - 3.20) That certain lease dated January 18, 1997, granted by PAUL J. J. HARBIN, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 96 acres, more or less, and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 403.

LEASE NO. 3649.2: (Net acres in unit - 3.20) That certain lease dated January 18, 1997, granted by DARRELL HARBIN AND JANE HARBIN, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 96 acres, more or less, and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 409.

LEASE NO. 3649.3: (Net acres in unit - 3.20) That certain lease dated January 18, 1997, granted by VIRGINIA JOAN RAKE, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 96 acres, more or less, and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 405.

LEASE NO. 3649.4: (Net acres in unit - 3.20) That certain lease dated January 18, 1997, granted by FRED L. MORNINGSTAR AND JEAN MORNINGSTAR, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 96 acres, more or less, and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 407.

LEASE NO. 3649.5: (Net acres in unit - 16.0) That certain lease dated January 27, 1997, granted by JAMES L. HARBIN AND NORMA JEAN HARBIN, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 96 acres, more or less, and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 524.

LEASE NO. 3649.6: (Net acres in unit - 3.20) That certain lease dated January 27, 1997, granted by WILLIAM HARRISON AND RAMONA HARRISON, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 96 acres, more or less, and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 470.

LEASE NO. 3649.7: (Net acres in unit - 1.00) That certain lease dated January 29, 1997, granted by TORY HARRIS, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 96 acres, more or less, and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 530.

LEASE NO. 3649.8: (Net acres in unit - 1.00) That certain lease dated February 22, 1997, granted by KEITH HARRIS AND TRACY HARRIS, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 96 acres, more or less, and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 674.

LEASE NO. 3649.9: (Net acres in unit - 48.0) That certain lease dated January 10, 1997, granted by ANNA JANE PICKENS, widow, to CABOT OIL & GAS CORPORATION, covering an undivided interest in a tract of land containing 96 acres, more or less, and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 357 and thereby assigned to CARL E. SMITH PETROLEUM, INC. dated May 28, 1999 from CABOT OIL & GAS CORPORATION as recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia in Lease Book 235 at Page 284.

47.0 35.0 3.0 2 9

LEASE NO. 3649.10: (Net acres in unit - 4.0) That certain lease dated January 16, 1997, granted by BERNADINE O. YOUNG AND AUSTIN V. YOUNG, her husband, to CABOT OIL & GAS CORPORATION covering an undivided interest in a tract of land containing 96 acres, more or less, and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 493 and thereby assigned to CARL E. SMITH PETROLEUM, INC. dated May 28, 1999 from CABOT OIL & SAS CORPORATION as recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia in 1951/24/2019 Book 235 at Page 284.

LEASE NO. 3649.11: (Net acres in unit - 4.0) That certain lease dated January 16, 1997, granted by VIOLET HULBOY AND HENRY HULBOY, her husband, to CABOT OIL & GAS CORPORATION covering an undivided interest in a tract of land containing 96 acres, more or less, and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 532 and thereby assigned to CARL E. SMITH PETROLEUM, INC. dated May 28, 1999 from CABOT GIL & GAS CORPORATION as recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia in Lease Book 235 at Page 284.

LEASE NO. 3649.12: (Net acres in unit - 2.0) That certain lease dated January 16, 1997, granted by ROSANNA MADVAY to CABOT GIL & GAS CORPORATION covering an undivided interest in a tract of land containing 96 acres, more or less, and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 670 and thereby assigned to CARL E. SMITH PETROLEUM, INC. dated May 28, 1999 from CABOT GIL & GAS CORPORATION as recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia in Lease Book 235 at Page 284.

LEASE NO. 3672.1: (Net acres in unit - .8571) That certain lease dated October 18, 1998, granted by OKEY KOONTZ AND RUTH ANN KOONTZ, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 6 acres, more or less, and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 234, at Page 580.

LEASE NO. 3672.2: (Net acres in unit - .8571) That certain lease dated October 18, 1998, granted by DALE THOMPSON AND JOYCE THOMPSON, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 6 acres, more or less, and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 234, at Page 574.

LEASE NO. 3672.3: (Net acres in unit - .8571) That certain lease dated October 18, 1998, granted by CARL O. THOMPSON AND VICKIE THOMPSON, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 6 acres, more or less, and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 234, at Page 586.

LEASE NO. 3672.4: (Net acres in unit - .8571) That certain lease dated October 18, 1998, granted by EARL W. THOMPSON AND MILDRED THOMPSON, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 6 acres, more or less, and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 234, at Page 576.

LEASE NO. 3672.5: (Net acres in unit - .8571) That certain lease dated February 11, 1999, granted by DONALD L. THOMPSON AND CAROLYN J. THOMPSON, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 6 acres, more or less, and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 235, at Page 107.

LEASE NO. 3672.6: (Net acres in unit - .8571) That certain lease dated November 10, 1998, granted by GRACE T. BROWDER AND BRUCE BROWDER, her husband, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 6 acres, more or less, and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 234, at Page 592.

LEASE NO. 3672.7: (Net acres in unit - .8571) That certain lease dated November 21, 1998, granted by WAYNE T. THOMPSON AND JOANNE THOMPSON, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 6 acres, more or less, and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 235, at Page 603.

LEASE NO. 3655.1: (Net acres in unit - 2.4167) That certain lease dated January 16, 1997, granted by JOHN GLOVER AND CAROLYN GLOVER, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 411.

LEASE NO. 3655.2: (Net acres in unit - 1.2083) That certain lease dated January 21, 1997, granted by DOW WOLFE SR AND ELOISE WOLFE, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 427.

LEASE NO. 3655.3: (Net acres in unit - .9063) That certain lease dated January 18, 1997, granted by JACK WESTFALL AND ILA G. WESTFALL, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 421.

LEASE NO. 3655.4: (Net acres in unit - 1.2083) That certain lease dated January 22, 1997, granted by LAWRENCE E. STUCKEY AND ELEA STUCKEY, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 438.

LEASE NO. 3655.5: (Net acres in unit - .8056) That certain lease dated January 24, 1997, granted by MILDRED NULL, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 436.

LEASE NO. 3655.6: (Net acres in unit - .9063) That certain lease dated January 23, 1997, granted by CURTIS ROBBINS AND BETTY ROBBINS, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 434.

LEASE NO. 3655.7: (Net acres in unit - 1.8125) That certain lease dated January 22, 1997, granted by JACK WILLIAMSON AND THELMA WILLIAMSON, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 430.

LEASE NO. 3655.8: (Net acres in unit - 1.8125) That certain lease dated January 22, 1997, granted by GLENN GILKINSON AND KATHERINE GILKINSON, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 432.

LEASE NO. 3655.9: (Net acres in unit - .4028) That certain lease dated January 23, 1997, granted by ALMA RANDOLPH, widow, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 419.

LEASE NO. 3655.10: (Net acres in unit - 1.2083) That certain lease dated January 22, 1997, granted by GERALD MURRAY, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 440.

3655.11: (Net acres in unit - .4028) That certain lease dated LEASE NO. January 27, 1997, granted by RAY THORNTON AND CAROLYN THORNTON, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page

05/24/2019 LEASE NO. 3655.12: (Net acres in unit - .9063) That certain lease dated January 18, 1997, granted by MARION R. WELCH AND LOU WELCH, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 518.

LEASE NO. 3655.13: (Net acres in unit - .4028) That certain lease dated January 28, 1997, granted by CARL THORNTON AND TWILA THORNTON, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page

LEASE NO. 3655.14: (Net acres in unit - .4028) That certain lease dated January 31, 1997, granted by GLENNIE SAMS, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 472.

LEASE NO. 3655.15: (Net acres in unit - .9063) That certain lease dated January 27, 1997, granted by OMA G. COX, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 468.

LEASE NO. 3655.16: (Net acres in unit - 1.2083) That certain lease dated December 2, 1996, granted by EDGAR BAUCH AND ETHEL BAUCH, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 474.

LEASE NO. 3655.17: (Net acres in unit - 1.2083) That certain lease dated February 1, 1997, granted by WAYNE KURLINSKI AND VIRGINIA KURLINSKI, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 528.

LEASE NO. 3655.18: (Net acres in unit - .3021) That certain lease dated February 6, 1997, granted by JACK LYONS AND GLADYS LYONS, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 540.

LEASE NO. 3655.19: (Net acres in unit - .4028) That certain lease dated February 4, 1997, granted by AMBER CRUM AND ADA CRUM, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page

LEASE NO. 3655.20: (Net acres in unit - 1.8125) That certain lease dated February 4, 1997, granted by THEODORE CHOUINARD AND MARGARET CHOUINARD, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 542.

BOX 4, SANDYVILLE, WEST VIRGINIA 25275 <u>8</u> <u>₹</u> E. SMITH PETROLEUM,

LEASE NO. 3655.21: (Net acres in unit - 10.8750) That certain lease dated February 10, 1997 granted by FRED ARGENIO AND HELEN ARGENIO, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page

05/24/2019 LEASE NO. 3655.22: (Net acres in unit - .3021) That certain lease dated February 12, 1997, granted by JUANITA SMITH, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 623.

LEASE NO. 3655.23: (Net acres in unit - 1.2083) That certain lease dated February 19, 1997, granted by THOMAS CALGOS AND MARY CALGOS, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page

LEASE NO. 3655.24: (Net acres in unit - 1.6111) That certain lease dated February 18, 1997, granted by ROSA McCONNELL, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 658.

LEASE NO. 3655.25: (Net acres in unit - .3021) That certain lease dated February 19, 1997, granted by DONALD WAYNE MOORE AND MARY MOORE, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 656.

LEASE NO. 3655.26: (Net acres in unit - .3021 ) That certain lease dated February 19, 1997, granted by WILLIAM MODRE AND JOAN MODRE, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page

LEASE NO. 3655.27: (Net acres in unit - .3021) That certain lease dated February 27, 1997, granted by CHARLES MOORE AND ELIZABETH MOORE, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page

LEASE NO. 3655.28: (Net acres in unit - 1.8125) That certain lease dated March 4, 1997, granted by GLEN D. ARCHER AND SHARON ARCHER, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 757.

LEASE NO. 3655.29: (Net acres in unit - 1.8125) That certain lease dated March 5, 1997, granted by PAUL COOLEY AND GLORENE COOLEY, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page

LEASE NO. 3655.30: (Net acres in unit -.3021) That certain lease dated March 8, 1997, granted by CARL MOORE AND JOSEPHINE MOORE, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 781.

LEASE NO. 3655.31: (Net acres in unit - 1.8125) That certain lease dated March 7, 1997, granted by CHARLES EDDY AND RUTH EDDY, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 038

LEASE NO. 3655.32: (Net acres in unit - 1.8125) That certain lease 56242019 March 12, 1997, granted by ROBERT SWARTZ AND RUTH SWARTZ, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 044.

LEASE NO. 3655.33: (Net acres in unit - 3.6250) That certain lease dated March 7, 1997, granted by WILLIAM FARLEY AND GLADYS FARLEY, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 042.

LEASE NO. 3655.34: (Net acres in unit - 1.2083) That certain lease dated February 24, 1998, granted by MICHAEL J. SMEDLEY AND SANDRA L. SMEDLEY to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 232, at Page 701

LEASE NO. 3655.35: (Net acres in unit - 2.4167) That certain lease dated February 24, 1998, granted by DONNA LOTT - single MICHAEL J. SMEDLEY Power of Attorney, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 232, at Page 703.

LEASE NO. 3655.36: (Net acres in unit - 1.2083) That certain lease dated February 24, 1998, granted by RHENA STANLEY, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 232, at Page 705.

LEASE NO. 3655.37: (Net acres in unit - .4028) That certain lease dated March 6, 1998, granted by GLADYS THORTON - widow CRYSTAL JONES Power of Attorney, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 232, at Page 711.

LEASE NO. 3655.38: (Net acres in unit - 1.8125) That certain lease dated September 14, 1999, granted by CHARLES ARCHER AND JEANETTE ARCHER to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 235, at Page 485.

LEASE NO. 3655.39: (Net acres in unit - .1007) That certain lease dated September 15, 1999, granted by JUDI BOYLE to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 235, at Page 487.

LEASE NO. 3655.40: (Net acres in unit - .1007) That certain lease dated September 24, 1999, granted by JAMES C. BASTON to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 235, at Page 513.

LEASE NO. 3655.41: (Net acres in unit - .1007) That certain lease dated November 6, 1999, granted by DENNIS P. BASTON AND DIANE B. BASTON to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 116 acres, more or less, (but using for the purpose of this unitization only 58 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, WV, in Lease Book 236, at Page 033.

LEASE NO. 3656.1: (Net acres in unit - 1.3203) That certain lease 05424/2019 January 22, 1997, granted by WILLIAM W. WAYBRIGHT, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 423.

LEASE NO. 3656.2: (Net acres in unit - .7545) That certain lease dated January 28, 1997, granted by MARVIN W. CULPEPPER AND CARMEN E. CULPEPPER, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 520.

LEASE NO. 3656.3: (Net acres in unit - .0782) That certain lease dated January 28, 1997, granted by TED B. LAW AND JANICE LAW, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, WV, in Lease Book 230, at Page 522.

LEASE NO. 3656.4: (Net acres in unit - 10.5625 That certain lease dated January 28, 1997, granted by WILMA JEAN KELCH, divorced, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 464.

LEASE NO. 3656.5: (Net acres in unit - .1408) That certain lease dated February 3, 1997, granted by DORTHA ANGUS, widow, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 64.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 516.

LEASE NO. 3656.6: (Net acres in unit - .176) That certain lease dated January 30, 1997, granted by OTHO TOLLEY, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 514.

LEASE NO. 3656.7: (Net acres in unit - .4311) That certain lease dated January 30, 1997, granted by WARREN P. HUDSON AND JUNE E. HUDSON, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, WV, in Lease Book 230, at Page 476.

LEASE NO. 3656.8: (Net acres in unit - .4311) That certain lease dated February 5, 1997, granted by MATTHEW AMATO, widower, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 526.

LEASE NO. 3656.9: (Net acres in unit - .7042) That certain lease dated February 6, 1997, granted by TRESSIE SKEEN, widow, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 536.

LEASE NO. 3656.10: (Net acres in unit - .3912) That certain lease dated February 7, 1997, granted by HELEN MALESKI, widow, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 534.

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LEASE NO. 3656.11: (Net acres in unit - .2641) That certain lease dated February 11, 1997, granted by RONALD CONNERS, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 546.

LEASE NO. 3656.12: (Net acres in unit - .0391) That certain lease @5/24/2019 February 9, 1997, granted by WILLIAM H. RICKARD AND DOTTY LOU RICKARD, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 544.

LEASE NO. 3656.13: (Net acres in unit - .503) That certain lease dated February 10, 1997, granted by JAMES A. EAKINS, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 548.

LEASE NO. 3656.14: (Net acres in unit - .503) That certain lease dated February 9, 1997, granted by DAYTON COPEN AND GLENDINE COPEN, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, WV, in Lease Book 230, at Page 549.

LEASE NO. 3656.15: (Net acres in unit - .1408) That certain lease dated February 8, 1997, granted by BILL WILLIAMS AND JOYCE WILLIAMS, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, WV, in Lease Book 230, at Page 555.

LEASE NO. 3656.16: (Net acres in unit - .1304) That certain lease dated February 11, 1997, granted by JOHN TRIPLETT AND DOROTHY TRIPLETT, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, WV, in Lease Book 230, at Page 557.

LEASE NO. 3656.17: (Net acres in unit - .1956) That certain lease dated February 12, 1997, granted by CURTIS J. FOUSE AND VELMA IRENE FOUSE, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 551.

LEASE NO. 3656.18: (Net acres in unit - .3018) That certain lease dated February 11, 1997, granted by ROY J. BAKER AND EUNICE BAKER, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, WV, in Lease Book 230, at Page 553.

LEASE NO. 3656.19: (Net acres in unit - .4311) That certain lease dated February 10, 1997, granted by BRUCE HUDSON AND LUCILLE HUDSON, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, WV, in Lease Book 230, at Page 574.

LEASE NO. 3656.20: (Net acres in unit - .1304) That certain lease dated February 10, 1997, granted by CAROLYN MITCHELL, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 580.

LEASE NO. 3656.21: (Net acres in unit - .0391) That certain lease dated February 14, 1997, granted by DAV1D A. GAINER AND CAROL S. GAINER, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 578.

LEASE NO. 3656.22: (Net acres in unit - .5030) That certain lease Cated February 7, 1997, granted by JERRY MANGUS AND PEGGY MANGUS, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 582.

LEASE NO. 3656.23: (Net acres in unit - .5030) That certain lease dated February 18, 1997, granted by MAYFORD EAKINS AND DOROTHY EAKINS, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 625.

LEASE NO. 3656.24: (Net acres in unit - .0719) That certain lease dated February 17, 1997, granted by DONALD CONLEY AND SOTERA CONLEY, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 664.

<u>LEASE NO. 3656.25</u>: (Net acres in unit - .2641) That certain lease dated February 14, 1997, granted by ROY CONNER AND MARJORIE CONNER, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 662.

LEASE NO. 3656.26: (Net acres in unit - .4311) That certain lease dated February 19, 1997, granted by WILBERT L. STUTLER AND SHIRLEY A. STUTLER, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 654.

LEASE NO. 3656.27: (Net acres in unit - .0782) That certain lease dated February 21, 1997, granted by BASIL LAWRENTZ AND SARA LAWRENTZ, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 868.

LEASE NO. 3656.28: (Net acres in unit - .4311) That certain lease dated February 14, 1997, granted by FLOSSIE EAKIN, widow, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 670.

LEASE NO. 3656.29: (Net acres in unit - .1956) That certain lease dated February 19, 1997, granted by ROY MARTIN AND HELEN MARTIN, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson Co., West Virginia, in Lease Book 230, at Page 672.

LEASE NO. 3656.30: (Net acres in unit - .1408) That certain lease dated February 21, 1997, granted by WILLIAM O. TOLLEY AND MARGARET TOLLEY, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 666.

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LEASE NO. 3656.31: (Net acres in unit - .7042) That certain lease dated February 21, 1997, granted by EVELYN LAMIELL, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 700.

LEASE NO. 3656.32: (Net acres in unit - .4694) That certain lease Gated/2019 February 24, 1997, granted by WENDELL CORNETET JR. AND JUNE LESTER CORNETET, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 704.

LEASE NO. 3656.33: (Net acres in unit - 1.7604) That certain lease dated February 24, 1997, granted by NORMA L. DESMOND, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 708.

LEASE NO. 3656.34: (Net acres in unit - .3912) That certain lease dated February 26, 1997, granted by SARAH BAKER, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 706.

LEASE NO. 3656.35: (Net acres in unit - 1.5648) That certain lease dated February 25, 1997, granted by DICK VALLEE AND HAZEL VALLEE, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 734.

LEASE NO. 3656.36: (Net acres in unit - .6036) That certain lease dated February 27, 1997, granted by JERRY BRABHAM AND CAROLYN BRABHAM, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 724.

LEASE NO. 3656.37: (Net acres in unit - .8802) That certain lease dated February 26, 1997, granted by BILL MEEK AND ELEANOR MEEK, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 722.

LEASE NO. 3656.38: (Net acres in unit - .4694) That certain lease dated February 27, 1997, granted by E. ROY LESTER, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 720.

LEASE NO. 3656.39: (Net acres in unit - .8802) That certain lease dated February 28, 1997, granted by GLENN ROMINE AND CAROL ROMINE, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 718.

LEASE NO. 3656.40: (Net acres in unit - .2641) That certain lease dated February 25, 1997, granted by DONALD CONNER AND DOROTHY CONNER, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 726.

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LEASE NO. 3656.41: (Net acres in unit - .3018) That certain lease dated February 27, 1997, granted by ROY H. BRABHAM, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 728.

LEASE NO. 3656.42: (Net acres in unit - .0719) That certain lease 65/24/2019 March 2, 1997, granted by GEORGE KING AND MARJORIE KING, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 741.

LEASE NO. 3656.43: (Net acres in unit - .4694) That certain lease dated March 4, 1997, granted by CHARLES LESTER AND CLARICE LESTER, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 739.

LEASE NO. 3656.44: (Net acres in unit - .0391) That certain lease dated March 4, 1997, granted by KERMIT DAVID ELLISON AND FREDA JEANNE ELLISON, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 737.

LEASE NO. 3656.45: (Net acres in unit - .3521) That certain lease dated March 7, 1997, granted by MARIE MILLER to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 755.

LEASE NO. 3656.46: (Net acres in unit - .7042) That certain lease dated March 1, 1997, granted by RICHARD MARTIN AND ELLEN MARTIN, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 753.

LEASE NO. 3656.47: (Net acres in unit - .1408) That certain lease dated March 3, 1997, granted by JOHN F. TOLLEY AND BETTY TOLLEY, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 751

LEASE NO. 3656.48: (Net acres in unit - .7042) That certain lease dated March 3, 1997, granted by ROBERT ARCHER AND SHIRLEY ARCHER, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 34.

LEASE NO. 3656.49: (Net acres in unit - 1.2071) That certain lease dated March 10, 1997, granted by RUBY CASTO, widow, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 783.

LEASE NG. 3656.50: (Net acres in unit - .0391) That certain lease dated March 11, 1997, granted by BILLY R. ELMCRE AND DIXIE ELMCRE, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 64.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 36.

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LEASE NO. 3656.51: (Net acres in unit - .4311) That certain lease dated March 5, 1997, granted by JUANITA HUDSON, widow, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only \$4.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 32.

LEASE NO. 3656.52: (Net acres in unit - .1956) That certain lease dated March 12, 1997, granted by LGU HALL AND MAXINE HALL, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 30.

LEASE NO. 3656.53: (Net acres in unit - .2156) That certain lease dated February 21, 1997, granted by DAVID L. TRUMAN AND JANET TRUMAN, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 50.

LEASE NO. 3656.54: (Net acres in unit - .0719) That certain lease dated March 17, 1997, granted by NORMAN HARRIS AND LOIS HARRIS to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 153.

LEASE NO. 3656.55: (Net acres in unit - .8802) That certain lease dated February 18, 1997, granted by ARTHUR ROMINE AND RUTH ROMINE, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 155.

LEASE NO. 3656.56: (Net acres in unit - .6602) That certain lease dated April 9, 1997, granted by JAMES K. WAYBRIGHT AND HELEN WAYBRIGHT, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 193.

LEASE NO. 3656.57: (Net acres in unit - .0719) That certain lease dated April 12, 1997, granted by WILLIAM VanGORDER AND VELMA VanGORDER, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 225.

LEASE NO. 3656.58: (Net acres in unit - .1760) That certain lease dated April 17, 1997, granted by GARY TOLLEY AND DIXIE WASHINGTON, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 223.

LEASE NO. 3656.59: (Net acres in unit - .0604) That certain lease dated May 6, 1997, granted by IRA HENRY to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 296.

LEASE NO. 3656.60: (Net acres in unit - .0782) That certain lease dated May 5, 1997, granted by JAMES DROST AND KATHERINE ESTELLE DROST, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 300.

LEASE NO. 3656.61: (Net acres in unit - .0559) That certain lease dated May 8, 1997, granted by TOM AND JENNIFER PHILLIPS, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 298.

LEASE NO. 3656.62: (Net acres in unit - .0261) That certain lease dated may 12, 1997, granted by LESTER AND BETTY MILLER, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 288.

LEASE NO. 3656.63: (Net acres in unit - .1304) That certain lease dated February 22, 1997, granted by HERBERT FANNIN AND DELPHA FANNIN, husband and wife, to CAKL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 258.

LEASE NO. 3656.64: (Net acres in unit - .0604) That certain lease dated May 8, 1997, granted by LELIA DODSON, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 302.

<u>LEASE NO. 3656.65</u>: (Net acres in unit - .0604) That certain lease dated May 9, 1997, granted by JIM AND MARTHA HENRY, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 320.

LEASE NO. 3656.66: (Net acres in unit - .0559) That certain lease dated May 7, 1997, granted by KIMBERLY KUTSCHER, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 339.

LEASE NO. 3656.67: (Net acres in unit - .0719) That certain lease dated May 7, 1997, granted by LORENZO O. BRIGHTBILL III AND RUTH A. BRIGHTBILL, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 341.

LEASE NO. 3656.68: (Net acres in unit - .0559) That certain lease dated May 14, 1997, granted by ANDREW AND DAYNA OLEI, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 335.

LEASE NO. 3656.69: (Net acres in unit - .0604) That certain lease dated May 14, 1997, granted by SADIE HENSLEY to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 333.

LEASE NO. 3656.70: (Net acres in unit - .0559) That certain lease dated May 21, 1997, granted by TONEY EAKIN, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 371.

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LEASE NO. 3656.71: (Net acres in unit - .0604) That certain lease dated May 22, 1997, granted by BELVA FAIN to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 373.

LEASE NO. 3656.72: (Net acres in unit - .1408) That certain lease dayed /2019 2, 1997, granted by CARL R. AND MARY FRANCES SNYDER, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 378.

LEASE NO. 3656.73: (Net acres in unit - .0604) That certain lease dated June 4, 1997, granted by JO HENRY, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 386.

LEASE NO. 3656.74: (Net acres in unit - .0604) That certain lease dated May 31, 1997, granted by FRANK AND BETTY HENRY, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 64.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 382.

<u>LEASE NO. 3656.76</u>: (Net acres in unit - .2347) That certain lease dated July 23, 1997, granted by BOB HENDERSON, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 565.

LEASE NO. 3656.77: (Net acres in unit - .0604) That certain lease dated July 21, 1997, granted by FRANK AND ANN SHAMBLIN, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 563.

LEASE NO. 3656.78: (Net acres in unit - .1956) That certain lease dated July 22, 1997, granted by ERNEST F. ARCHER AND ELIZABETH ARCHER, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 561.

LEASE NO. 3656.79: (Net acres in unit - .0587) That certain lease dated July 24, 1997, granted by JUDITH CAMPBELL, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 572.

LEASE NO. 3656.80: (Net acres in unit - .8802) That certain lease dated July 23, 1997, granted by GARLAND ROMINE, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 569.

LEASE NO. 3656.81: (Net acres in unit - .1760) That certain lease dated July 21, 1997, granted by THOMAS KISH AND LENORA KISH, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 584.

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<u>LEASE NO. 3656.82</u>: (Net acres in unit - .6036) That certain lease dated July 23, 1997, granted by IRENE PARSONS, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 580.

LEASE NO. 3656.83: (Net acres in unit - .2156) That certain lease dated July 25, 1997, granted by STEVE AND YVETTE TRUMAN, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 582.

LEASE NO. 3656.84: (Net acres in unit - 1.3203) That certain lease dated July 30, 1997, granted by MILLIE M. WAYBRIGHT, divorced, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 586.

LEASE NO. 3656.85: (Net acres in unit - .0587) That certain lease dated July 28, 1997, granted by DANNY MARTIN AND SANDRA MARTIN, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 588.

LEASE NO. 3656.86: (Net acres in unit - .6602) That certain lease dated February 24, 1997, granted by BOBBY V. LANHAM AND CANDACE LOUISE LANHAM, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 559.

LEASE NO. 3656.87: (Net acres in unit - .0587) That certain lease dated July 31, 1997, granted by THOMAS AND ELIZABETH MARTIN, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 594.

LEASE NO. 3656.88: (Net acres in unit - .0196) That certain lease dated July 31, 1997, granted by BARBARA G'QUINN, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 596.

LEASE NO. 3656.89: (Net acres in unit - .7042) That certain lease dated August 6, 1997, granted by EDGAR B. TIMMS, JR. AND MARY RUTH TIMMS, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 619.

LEASE NO. 3656.90: (Net acres in unit - .0587) That certain lease dated August 4, 1997, granted by JUANITA SAYRE AND RAY SAYRE, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 231, at Page 617.

LEASE NO. 3656.91: (Net acres in unit - .0587) That certain lease dated September 26, 1997, granted by EDWARD M. MARTIN AND MARION J. MARTIN, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 232, at Page 35.

# 4703503029 SOOK 0236 PAGE 173

LEASE NO. 3656.92: (Net acres in unit - .2201) That certain lease dated September 15, 1997, granted by CHRISTOPHER AND LISA L. ZANISH, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 232, at Page 23.

LEASE NO. 3656.93: (Net acres in unit - .0196) That certain lease 05/24/2019 September 24, 1997, granted by JOYCE DORSEY AND D. L. DORSEY to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 232, at Page 37.

LEASE NO. 3656.94: (Net acres in unit - .7545) That certain lease dated October 16, 1997, granted by MAXINE HARPER O'DELL to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 232, at Page 80.

LEASE NO. 3656.95: (Net acres in unit - .2347) That certain lease dated October 27, 1997, granted by ROMIE REX FRYE, WIDOWER, TRUSTEE FOR THE ESTATE OF DOROTHY WILLIAMS to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 232, at Page 116.

LEASE NO. 3656.96: (Net acres in unit - .1760) That certain lease dated October 13, 1997, granted by MELVIN R. TOLLEY AND WANDA TOLLEY, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 232, at Page 373.

LEASE NO. 3656.97: (Net acres in unit - .0144) That certain lease dated November 14, 1997, granted by CAROL YOHO AND BARRY LEE YOHO to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 232, at Page 181.

LEASE NO. 3656.98: (Net acres in unit - .044) That certain lease dated December 1, 1997, granted by JEFF CONNER, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 232, at Page 343.

LEASE NO. 3656.99: (Net acres in unit - .0144) That certain lease dated December 1, 1997, granted by ROBERT EAKINS to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 232, at Page 341.

LEASE NO. 3656.100: (Net acres in unit - .0440) That certain lease dated December 3, 1997, granted by DALE CONNER, single, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 232, at Page 252.

LEASE NO. 3656.101: (Net acres in unit - .0440) That certain lease dated December 3, 1997, granted by BOBBY CONNER AND MABEL CONNER, husband and wife, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 232, at Page 264.

LEASE NO. 3656.102: (Net acres in unit - .0144) That certain lease dated December 18, 1997, granted by SHIKLEY DAVIS AND FRANKLIN DAVIS, spouse, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 232, at Page 415.

LEASE NO. 3656.103: (Net acres in unit - 1.3203) That certain lease 5242019 December 19, 1997, granted by RUBY HYRE to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 232, at Page 411.

LEASE NO. 3656.104: (Net acres in unit - .7042) That certain lease dated January 28, 1998, granted by SYBIL ARCHER to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 232, at Page 491.

LEASE NO. 3656.105: (Net acres in unit - .3018) That certain lease dated January 9, 1998, granted by FRANK T. LITTON, JR. AND DORIS MILLS LITTON, COTRUSTEES OF THE FRANK T. LITTON RESTATED REVOCABLE TRUST to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 232, at Page 417.

LEASE NO. 3656.106: (Net acres in unit - .4694) That certain lease dated March 16, 1998, granted by CARNEGIE NATURAL GAS COMPANY to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 232, at Page 737.

LEASE NO. 3656.107: (Net acres in unit - .0880) That certain lease dated March 21, 1998, granted by CAROL CONNER to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 233, at Page 58.

LEASE NO. 3656.108: (Net acres in unit - .3018) That certain lease dated April 8, 1998, granted by CHARLES EDWARD BEULIKE, HEIR AND BENEFICIARY OF MYRTLE BEULIKE, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 233, at Page 145.

LEASE NO. 3656.109: (Net acres in unit - .3018) That certain lease dated January 9, 1998, granted by EDNA MARIE ERWIN to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1860 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 232, at Page 419.

LEASE NO. 3656.110: (Net acres in unit - 1.2071) That certain lease dated March 31, 1998, granted by WACO OIL & GAS CO., INC. and TRIO PETROLEUM CORP. to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 233, at Page 227.

LEASE NO. 3656.111: (Net acres in unit - 10.5625) That certain lease dated March 31, 1998, granted by WACO OIL & GAS CO., INC. and TRIO PETROLEUM CORP. to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 233, at Page 225.

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LEASE NO. 3656.112: (Net acres in unit - .3018) That certain lease dated June 15, 1998, granted by CLYDE LITTON to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 233, at Page 306.

LEASE NO. 3656.113: (Net acres in unit - 15.0324) That certain lease dated July 16, 1998, granted by LARRY L. SKEEN, SPECIAL COMMISSIONER, PURSUANT TO COURT ORDER IN JACKSON COUNTY CIVIL ACTION NO. 97-C-102 (CARL E. SMITH PETROLEUM, INC. V. ROSALIND RAMEY JONES, ET.AL.) WHICH ORDER WAS ENTERED JULY 10, 1998 to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 234, at Page 74.

LEASE NO. 3656.114: (Net acres in unit - 5.2813) That certain lease dated January 14, 1997, granted by SHEILA C. McCOY A.I.F. to CABOT OIL AND GAS CORPORATION covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 365 assigned to CARL E. SMITH PETROLEUM, INC. in Lease Book 232, at Page 713.

LEASE NO. 3656.115: (Net acres in unit - 5.2813) That certain lease dated January 15, 1997, granted by FREDA OPAL LLOYD, widow, to CABOT OIL AND GAS CORPORATION covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 230, at Page 460 assigned to CARL E. SMITH PETROLEUM, INC. in Lease Book 232, at Page 713.

LEASE NO. 3656.116: (Net acres in unit - .3018) That certain lease dated February 4, 1999, granted by BANK ONE OF WEST VIRGINIA, N.A., TRUSTEE OF ARTHUR C. LITTON TRUST, to CARL E. SMITH PETROLEUM, INC. covering an undivided interest in a tract of land containing 1880 acres, more or less, (but using for the purpose of this unitization only 84.5 acres) and recorded in the Office of the Clerk of the County Court of Jackson County, West Virginia, in Lease Book 235, at Page 282.

To the aforesaid leases, agreements and records reference is hereby made for all purposes.

Said properties are shown and identified on the man or plat attached

i		_												
	Lease	No.	3655.1	•		•	-	•			•			.98843%
														. 49419%
			3655.3			•	•						 •	. 37067%
	Lease	No.	3655.4				•				•		 •	. 49419%
	Lease	No.	3655.5			•	•						 •	. 32949%
	Lease	No.	3655.6									•	 •	. 37067%
	Lease	No.	3655.7			•		•				•		.74131%
	Lease	No.	3655.8	•	•	•	•				•			.74131%
	Lease	No.	3655.9	•	•	•	•				-		 •	. 16474%
	Lease	No.	3655.10	•										. 49419%
	Lease	No.	3655.11											. 16474%
														. 37067%
														.16474%
														.16474%
	Lease	No.	3655.15	•		•					•		 •	.37067%
														. 49419%
l														. 49419%
BOX 4, SANDYVILLE, WEST VIRGINIA 25275	Lease	No.	3655.18		•		•	•		•			 •	.12356%
123	Lease	No.	3655.19	•	•		•						 •	. 16474%
<b>≨</b> ∣														.74131%
<u>ම</u>	Lease	No.	3655.21				-			•			 •	4.44785%
₹	Lease	No.	3655.22										 •	. 12356%
15:	Lease	No.	3655.23	•			•						 •	. 49419%
₹	Lease	No.	3655.24	•	-					•			 •	. 65894%
백	Lease	No.	3655.25		•						•		 •	.12356%
≢ ∣	Lease	No.	3655.26				•							.12356%
<b>Á</b>	Lease	No.	3655.27	•									 •	. 12356%
\$	Lease	No.	3655.28					•					 •	.74131%
4.	Lease	No.	3655.29											.74131%
Š	Lease	No.	3655.30	•	•								 •	. 12356%
P.O. B	Lease	No.	3655.31										 •	.74131%
ਕੂ: ∣	Lease	No.	3655.32										 •	.74131%
<u>ප</u>	Lease	No.	3655.33										 •	1.48262%
€	Lease	No.	3655.34	•										. 49419%
<u>₹</u>	Lease	No.	3655.35									• ,		. 98843%
ETROLEUM, INC.														. 49419%
<b>E</b>			3655.37											
뮙	Lease	No.	3655.38										 •	.74131%
≝│	Lease	No.	3655.39											.04119%
<b>₹</b>	Lease	No.	3655.40											.04119%
نس	Lease	No.	3655.41	•										.04119%
CARL E. SMITH PI			3656.1											. 54000%
3			3656.2										 •	. 30859%
			3656.3											.03198%
			3656.4											4.32004%
,														

#### 4703503029 goog 0236 PAGE 177 Lease No. 3656.34 . 16% Lease No. 3656.35 . 64% . 24687% Lease No. 3656.36 .36% Lease No. 3656.37 Lease No. 3656.38 .19198% Lease No. 3656.39 .36% .10802% Lease No. 3656.40 Lease No. 3656.41 .123495/24/2019 Lease No. 3656.42 .02941% Lease No. 3656.43 .19198% Lease No. 3656.44 .01599% Lease No. 3656,45 .14401% Lease No. 3656.46 . 28802% . 05759% Lease No. 3656.47 Lease No. 3656.48 .28802% Lease No. 3656.49 . 49370% Lease No. 3656.50 .01599% Lease No. 3656.51 .17632% Lease No. 3656.52 .08% 3656.53 Lease No. .08818% Lease No. 3656.54 .02941% Lease No. 3656.55 . 36% Lease No. 3656.56 . 27002% Lease No. 3656.57 .02941% Lease No. 3656.58 .07198% .02470% Lease No. 3656.59 Lease No. 3656.60 .03198% Lease No. 3656.61 .02286% Lease No. 3656.62 .01067% 05333% Lease No. 3656.63 Lease No. 3656.64 .0247% .0247% Lease No. 3656.65 Lease No. 3656.66 .02286% Lease No. 3656.67 .02941% Lease No. 3656.68 .02286% Lease No. 3656.69 .0247% Lease No. 3656.70 .02286% .0247% Lease No. 3656.71 Lease No. 3656.72 .05759% . 0247% Lease No. 3656.73 Lease No. 3656.74 . 0247% . 09599% Lease No. 3656.76 Lease No. 3656.77 .0247% Lease No. 3656.78 . 08% .02401% Lease No. 3656.79 .36% Lease No. 3656.80 .07198% Lease No. 3656.81 Lease No. 3656.82 .08818% 3656.83 Lease No. .54% Lease No. 3656.84 .02401% Lease No. 3656.85 Lease No. 3656.86 . 27002% .02401% Lease No. 3656.87 .00802% Lease No. 3656.88 . 28802% Lease No. 3656.89 .02401% Lease No. 3656.90 Lease No. 3656.91 .02401% Lease No. 3656.92 . 09002% .00802% Lease No. 3656.93 .30859% Lease No. 3656.94 .09599% Lease No. 3656.95 Lease No. 3656.96 .07198% . 00585% Lease No. 3656.97 Lease No. 3656.98 .00589% Lease No. 3656.99 .018% Lease No. 3656.100 .018% Lease No. 3656.101 .00589% Lease No. 3656.102 . 54% Lease No. 3656.103 . 28802% Lease No. 3656.104 .12344% Lease No. 3656.105 .19198% Lease No. 3656.106 Lease No. 3656.107 .03599% . 12344% Lease No. 3656.108

.123435/24/2019

3.24215%

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Leas	e No.	3656.109										•				. 12344%
Leas	e No.	3656.110	•		•											. 4937%
Lease	e No.	3656.111						• .	. •	4	•			٠.		4.32004%
Lease	e No.	3656.112			٠								•			.12344%
Lease	≥ No.	3656.113	•								•					6.14821%
Lease	e No.	3656.114														2.16004%
Lease	e No.	3656.115														2.16004%

Lease No. 3656.116 . . . . . . . . . . . . . . . .

TOTAL . . . . 100.00%

This declaration notice forming this drilling unit is made by authority of the aforesaid amendatory agreements to said leases or the pooling provisions contained in the aforesaid leases.

In WITNESS WHEREOF, the said Carl E. Smith Petroleum, Inc., a corporation, has caused its corporate name to be hereunto subscribed and its corporate seal hereunto affixed by its President duly authorized as of this 20th day of January, 2000.

Witness:

CARL E. SMITH PETROLEUM, INC.

a corporation

BY:

Larry D. Smith, President

Escrow

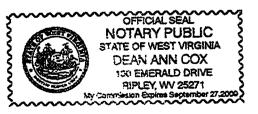
STATE OF WEST VIRGINIA,

COUNTY OF JACKSON, To-wit;

I, Dean Ann Cox, a Notary Public in said county and state, hereby certify that LARRY D. SMITH, PRESIDENT, who signed the writing above bearing date the 20th day of January, 2000, for CARL E. SMITH PETROLEUM, INC., a corporation, has this day in said county before me acknowledged the said writing to be the act and deed of said corporation.

Given under my hand and seal this 20th day of January, 2000.

My Commission Expires: September 27, 2009.



This instrument was prepared by Robert A. Pryce, P. C. Box 27, Sandyville, WV 25275-0027.

WW-2B	1
(5-12)	

Well No	351
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# 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.

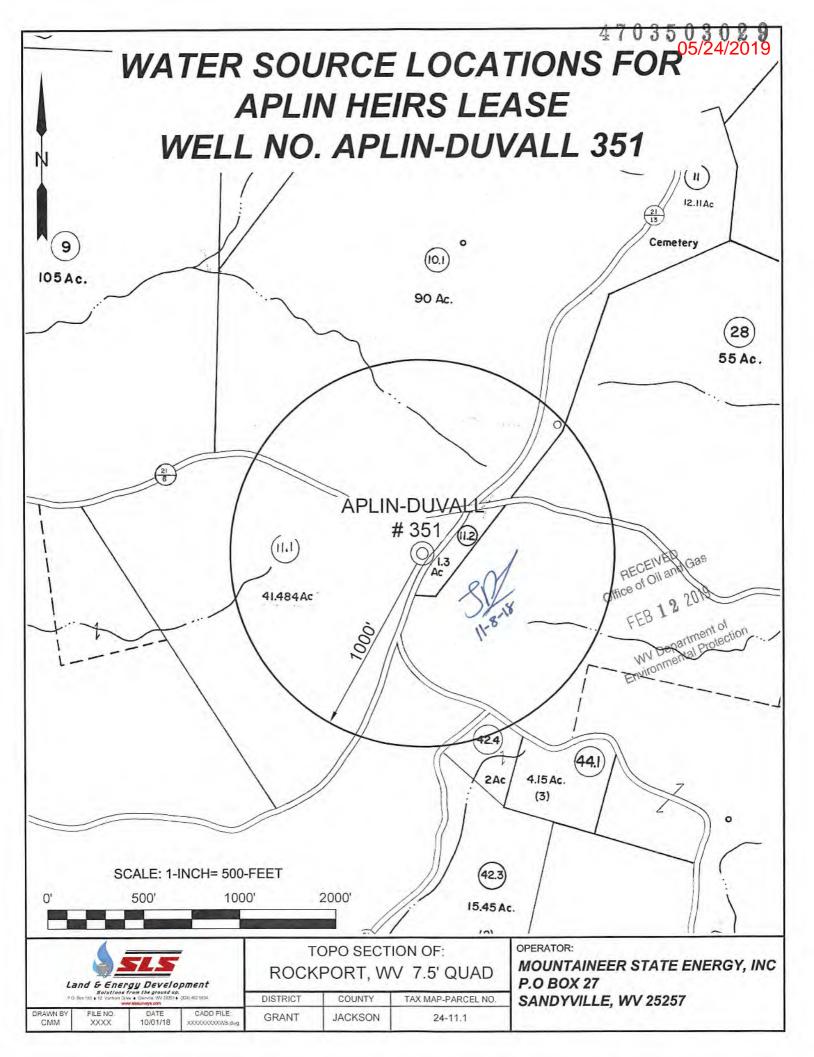
All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

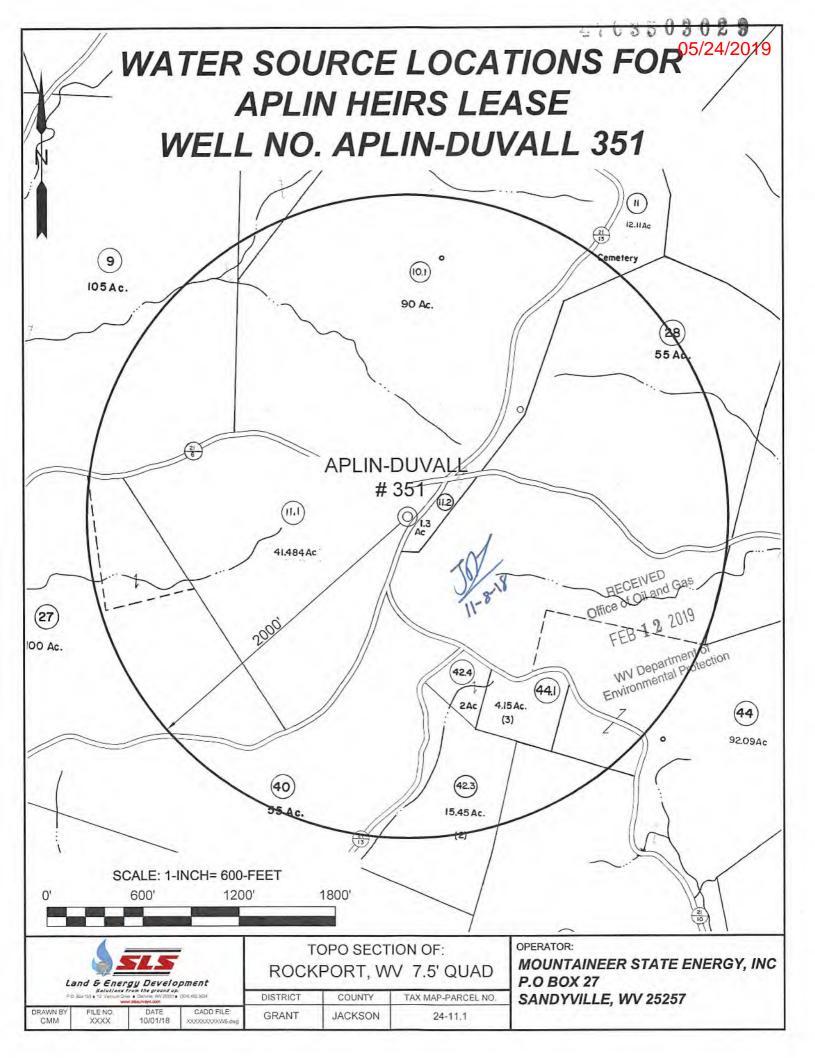
Be advised, you have the right to sample and analyze any water supply at your own expense.

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

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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.





24-9

\*Timmy E. & Patricia I. Boyce

1174 Maul Camp Run Rd.

Ravenswood, WV 26164

24-10.1

Timothy E. & Charles W. Boyce

9706 Pond Creek Rd.

Rockport, WV 26169

24-11, 28

\*Christopher Wight 304-377-8333 (New Owner)

1843 Ranch Road

Sandyville, WV 25275

Russell L. & Tamara Schreiber Trustees (Previous Owner)

515 Front St.

Marietta, OH 45750

24-11.1

\*Dennise R. & William L. Duvall

724 Green Rd.

South Charleston, WV 25309

24-11.2, 44

James C. Trivett & Sallie A. Guffanti V

2880 McGraw Run Rd.

Sandyville, WV 25275

RECEIVED
Office of Oil and Gas

FEB 1 2 2019

WV Department of Environmental Protection Edwin & Sarah Hildebrand

P.O. Box 1036

Parkersburg, WV 26102

24-42.3

Teresa L. & David L. Kessell/304-373-3021

107 Sugar Maple Ln.

Sandyville, WV 25275

24-42.4

Sherry L. & Michael D. Stevens

2864 McGraw Run Rd.

Sandyville, WV 25275

24-44.1

Wilbert E. Campbell & Joshua L. & Heidi Gorby

49317 McClure Rd.

East Palestine, OH 44413

RECEIVED
Office of Oil and Gas

FEB 1 2 2019

WV Department of Environmental Protection

FEB 1 2 619
Environmental Provinces

WW-9 (5/16)

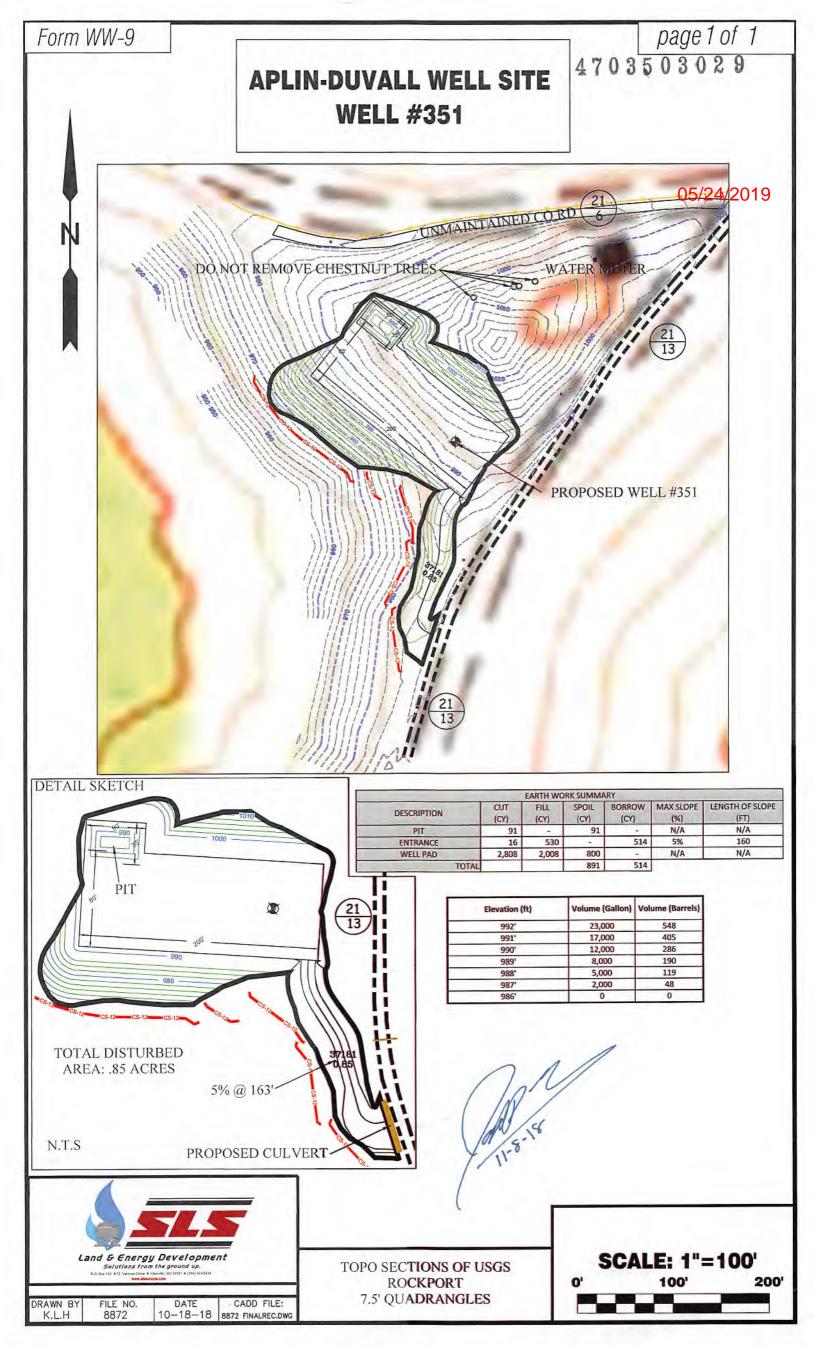
API Number 47 -	
Operator's Well No. #351	

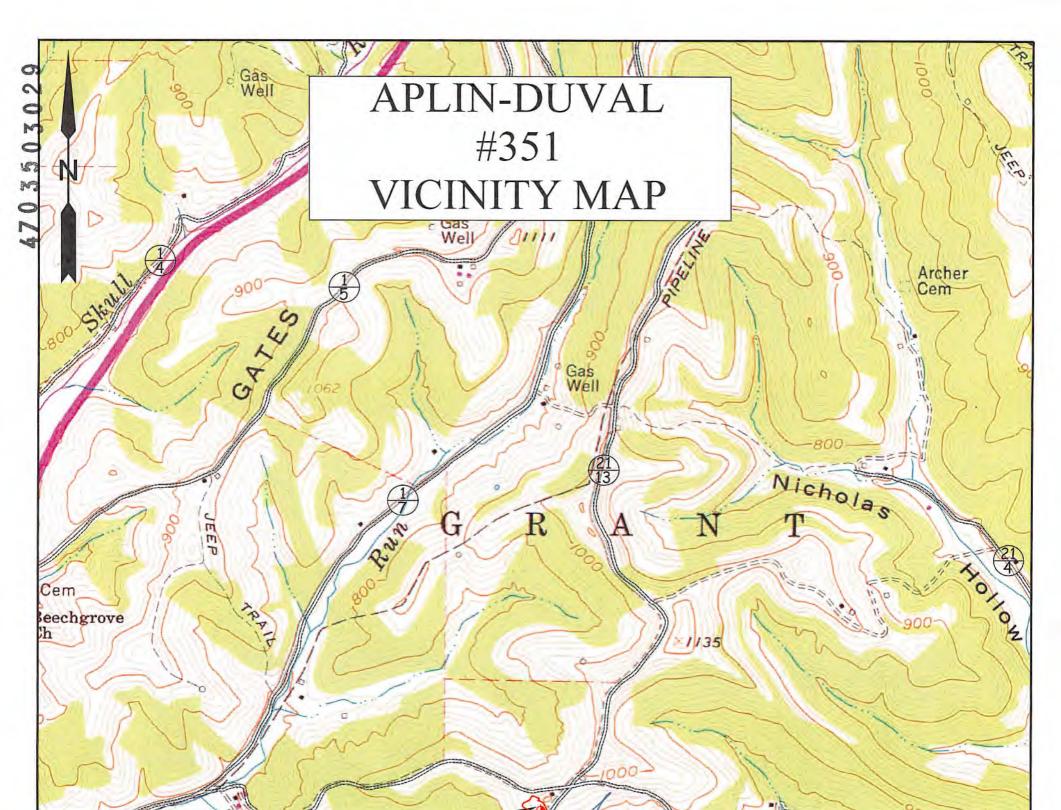
#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

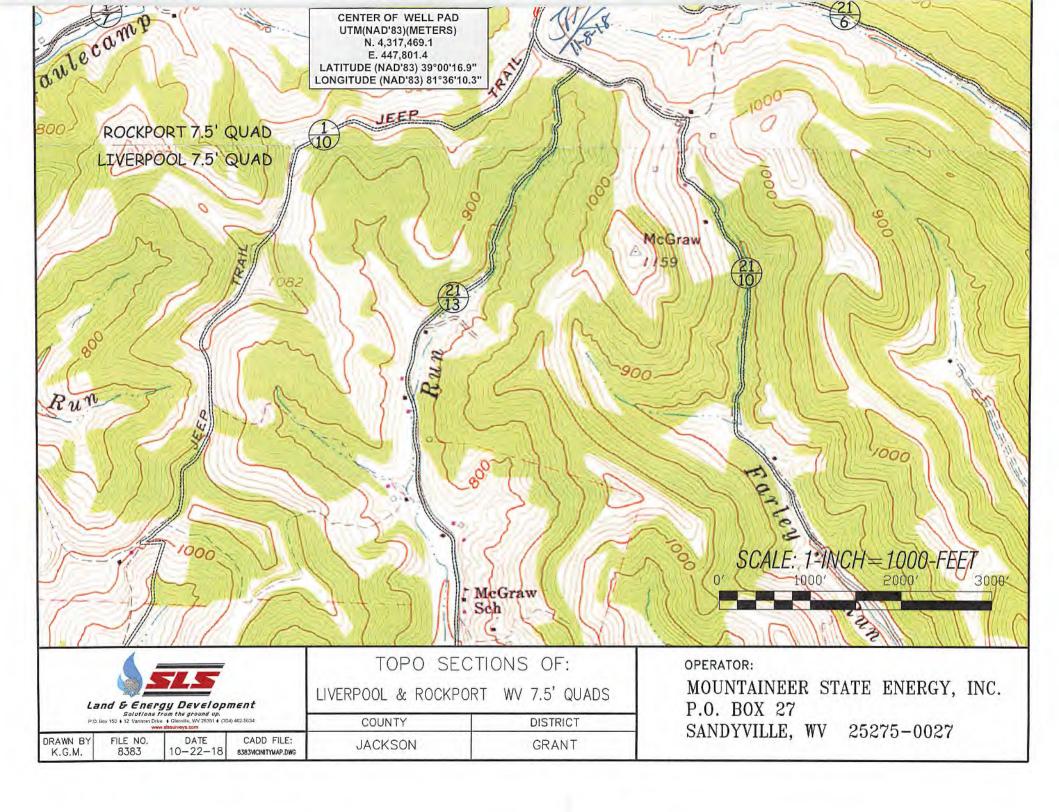
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN
Operator Name Mountaineer State Energy, Inc. OP Code 45650
Watershed (HUC 10) McGraw Run of Big Sandy Ck Quadrangle Rockport
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No Will a pit be used? Yes No
If so, please describe anticipated pit waste: Drill Cuttings FW SW Gel Frac Water, Cement
Will a synthetic liner be used in the pit? Yes No If so, what ml.? 40-Mil 20 ml
Proposed Disposal Method For Treated Pit Wastes:
Land Application (if selected provide a completed form WW-9-GPP)  Underground Injection (UIC Permit Number Ohio UIC 178  Reuse (at API Number Ohio UIC 178  Off Site Disposal (Supply form WW-9 for disposal location)  Other (Explain
RECEIVED
Will closed loop systembe used? If so, describe: NO
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air -no oil based mud. Cel. 2 2019
16 711 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1
Additives to be used in drilling medium? KCL  WV Department of Environmental Protection
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) Cement
-Landfill or offsite name/permit number?
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 award that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.  Company Official Signature  Company Official Title  Mountaineer State Energy, Inc.  Description:  Company Official Title  Company Official Title
Subscribed and swom before me this 12 day of 1 ovender, 20 2018  Linda Philipan Notary Public
My commission expires September 17, 2019

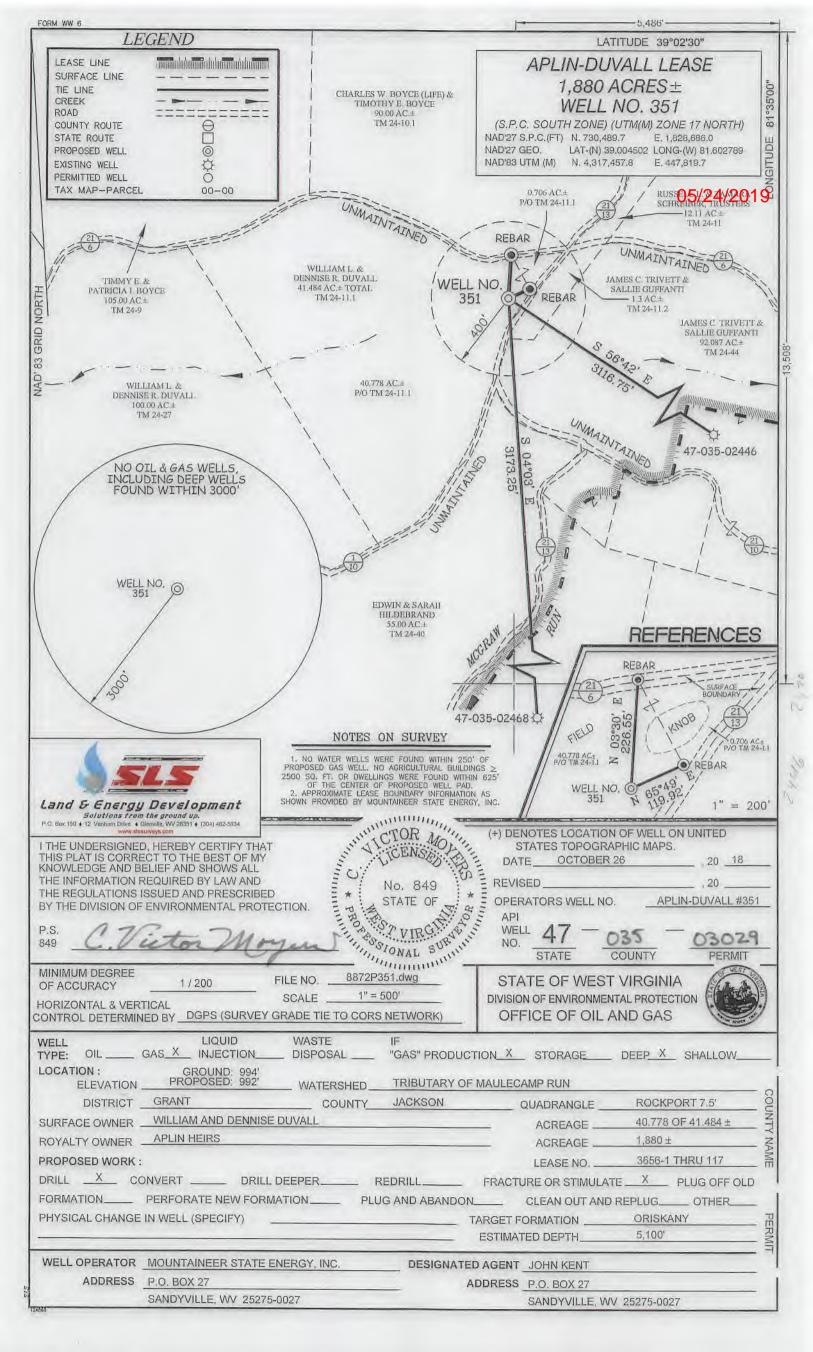
Operator's Well No. #351

Proposed Revegetation Treatment: Acres Disturbe	ed 3.8 Pr	reveg etation pH	4.8 or 5.00
Lime 2 Tons/acre or to c	correct to pH 6.5		
Fertilizer type 10-20-20			
Fertilizer amount 500/600	lbs/acre		
Mulch_ Hay	Tons/acre		
	Seed Mixtures		
Temporary		Permane	ent
Seed Type lbs/acre  Landowner request	Same	d Type	lbs/acre
Southern States Mixture			
or equivalent			
Attach: SEL WW -9 STA Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied L, W), and area in acres, of the land application ar	r land application (unless engineer d, provide water volume, include d rea.	red plans includir	ng this info have been V, D) of the pit, and dir
Attach: See WW - 9 Sm Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied L, W), and area in acres, of the land application are Photocopied section of involved 7.5' topographic section Approved by:	r land application (unless engineer d, provide water volume, include d rea. heet.	red plans includir dimensions (L, W	ng this info have been
Attach: See WW - 9 Sm Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied L, W), and area in acres, of the land application are Photocopied section of involved 7.5' topographic section Approved by:	r land application (unless engineer d, provide water volume, include d rea.	red plans includir dimensions (L, W	ng this info have been V, D) of the pit, and dir
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Attach: See WW - 9 Sm Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied L, W), and area in acres, of the land application are Photocopied section of involved 7.5' topographic section Approved by:	r land application (unless engineer d, provide water volume, include d rea. heet.	red plans including dimensions (L, W	ng this info have been V, D) of the pit, and dir









# Mountaineer State Energy Division of InterestListing Effective Date: 09/2018 Property: Proposed Well# 351

Acct	Owner Owner	Owner's Name	Тур	Billing(WI) Revenue(NRI Susp	Ext Sus Grp/Part DI Ex O
200	AMAGAR	GARY AMATO	R	0.00011000 PAY	
200	AMARIC	RICK AMATO	R	0.00011000 PAY	The second second second
200	ARCCHA	CHARLES LEE ARCHER	R	0.00092700 L03	DECLARATION NOTICE
200	ARCELI	ELIZABETH ARCHER	R	0.00010000 PAY	OF UNITIZED
200	ARCGLE	GLEN D ARCHER	R	0.00092600 PAY	BOOK 0236
200	ARCJUD	JUDITH ARCHER	R	0.00003000 L03	2001
200	ARCSYB	SYBIL ARCHER	R	0.00036000 L03	Pa 158-179
200	BAKWIL	WILLIAM DANNY BAKER	R	0.00004000 PAY	18 120-11
200	BARMAR	MARY LISA CRAIG BARKER	R	0.00000300 PAY	
	BARNAN	NANCY PAULETTE BARON	R	0.00001000 PAY	
200		DENNIS BASTON	R	0.00005100 PAY	
200	BASDEN	JAMES C BASTON	R	0.00005100 PAY	100 100
200	BASJAM		R	0.00061700 L03	LEASE 3649 (17
200	BAUETH	ETHEL BAUCH		0.00490780 PAY	ANS
200	BENANN	ANN PICKENS BENSON	R		BOOK 2501, 1940
200	BENGLA	GLADYS PICKENS BENNETT	R	0.00490780 PAY	
200	BEUMIC	MICHAEL ALAN BEULIKE	R	0.00005133 PAY	23672 (
200	BEUSTE	STEPHEN EDWARD BEULIKE	R	0.00005134 PAY	I EASE 36 LE
200	BONWIL	WILLIAM P. BONAR	R	0.00045000 PAY	234 Tg 574
200	BOSCAS	CASSANDRA JO RAKE BOSWOR	R	0.00163600 PAY	19 5
200	BOSDON	DONNA HYRE BOSTIC	R	0.00013500 PAY	3656
200	BOYJUD	JUDI BOYLE	R	0.00005100 PAY	MEN 7 22 236
200	BRACAR	CAROLYN A BRABHAM	R	0.00030800 L03	Beak 235
200	BRAROY	ROY BRABHAM	R	0.00015400 PAY	1 805 3656 6
200	BRIRUT	RUTH BRIGHTBILL	R	0.00003600 PAY	LEASE 36
200	BROGRA	GRACE T. BROWDER	R	0.00043800 PAY	
200	BROOED	ED BROOME, INC.	R	0.00018000 PAY	Book 230
200	BROOED	ED BROOME, INC.	R1	0.00007700 PAY	231
200	BROOED	ED BROOME, INC.	R2	0.00002250 PAY	
	BROROB	E BROOME, ROBERT JONES &	R	0.00075800 PAY	232
200		CABOT OIL AND GAS CORPORA	0	0.00118100 PAY	233
200	CABOT			0.00061700 L03	234
200	CALMAR	MARY CALGOS	R	0.00001700 E03	235
200	CALSAD	SADIE FAIN CALFEE	R		223
200	CALSAD	SADIE FAIN CALFEE	R1	0.00000083 PAY	
200	CARCAR	CAROL FAIN CAREY	R	0.00000084 PAY	
200	CASDON	DONALD I CASTO	R	0.00061700 PAY	
200	CHAMAR	MARGUERITE L CHAPMAN	R	0.00000300 PAY	
200	CHOMAR	MARGARET CHOUINARD	R	0.00092600 PAY	
200	CHRSTE	STEPHANIE BEULIKE CHRISTIAN	R	0.00005133 L01	
200	CLIHEN	HENRY CLINE	R	0.00020500 L02	
200	COMBEN	BENITA ANGUS COMER	R	0.00001440 PAY	
200	CONBOB	BOBBY CONNER	R	0.00002200 PAY	
200	CONCAR	CAROL CONNER	R	0.00004500 PAY	
200	CONDAL	DALE CONNER	R	0.00002200 L03	
200	CONDON	DONALD CONNER	R	0.00020200 PAY	
200	CONDWA	DWAYNE CONNER	R	0.00002200 L03	
200	CONJEF	JEFF CONNER	R	0.00002200 L03	
200	CONROY	ROY CONNER	R	0.00020200 L03	
200	COOPAU	PAUL COOLEY	R	0.00092600 PAY	
200	COPJAM	JAMES DAYTON COPEN	R	0.00008600 PAY	
200	CORDEB	DEBRA COPEN CORRA	R	0.00008600 PAY	
		JUNE LESTER CORNETET	R	0.00024000 PAY	
200	CORJUN	OMA G COX	R	0.00024000 PAY	
200	COXOMA				HECEIVED
200	CRACAT	CATHERINE CRAIG	R	0.00000300 L03	Office of Oil 10
200	CRADAV	DAVID CRAIG	R	0.00000300 PAY	on and das
200	CRAEDW	EDWARD CRAIG	R	0.00000300 L03	EED 10 co.
200	CRANOR	NORMAN CRAIG	R	0.00000300 L03	FEB 1 2 2019
200	CRARUS	RUSSELL CRAIG	R	0.00000300 PAY	
1200	CRUADA	ADA CRUM	R	0.00020500 L03	WV Danaster
1200	CULMAR	MARVIN CULPEPPER	R	0.00038500 PAY	Chvironphontol Duri
1200	CUNPEG	PEGGY I CUNNINGHAM	R	0.00004000 PAY	- Wildimental Protection

## Mountaineer State Energy Division of Interest Listing Property: Proposed Well #351

	l Well# 351		saa siidaasa	- Danie - Alakisi	ALDU C. SE	Ext Sus Grp/Part DI Ex O
Acct	Owner	Owner's Name	<u>Typ</u>		1	EXT Sus GIP/Part DI LEX O
1200	DALDEN	DENITA ANGUS DALE	R	0.00001440		
1200	DAVDAW	DAWN DAVIS	R	0.00004500		
1200	DAVMAR	MARJORIE L DAVIS	R	0.00004000		
1200	DAVSHI	SHIRLEY DAVIS	R	0.00005100		
1200	DESNOR	NORMA L DESMOND	R	0.00090000		
1200	DODLEL	LELIA DODSON	R	0.00003000		
1200	DODNEL	NELL HENRY DODSON	R	0.00003090	D PAY	
1200	DORJOY	JOYCE DORSEY	R	0.00001000	D PAY	
1200	DROKAT	KATHRYN E DROST	R	0.00004000	D PAY	
1200	EAKCHR	CHRISTOPHER G EAKINS	R	0.0000280	0 L05	
1200	EAKKEN	KENNETH EAKINS	R	0.0000510	0 L03	
1200	EAKROB	ROBERT EAKINS	R	0.0000510		
1200	EAKRON	RONALD DWAYNE EAKINS	R	0.0000510		
1200	EAKTON	TONEY EAKINS	R	0.0000280		
1200	EDDCHA	CHARLES EDDY	R	0.0009260		
1200	EDDNEL	NELSON EDDY	R	0.0009260		
		DAVID ELLISON	R	0.0000200		
1200	ELLDAV	DIXIE ELMORE	R	0.0000200		
1200	ELMDIX	= '		0.0000200		
1200	EQUITA	EQUITABLE PRODUCTION COMP			-	
1200	EULPAT	PATRICIA ANN DICKESS EULISS	R	0.0006750		
1200	FAIBET	BETTY J. FAIN	R	0.0000050		
1200	FAIBET	BETTY J. FAIN	R1	0.0000008		
1200	FAIHAR	HARRY LEE FAIN, III	R	0.0000050		.v
1200	FAIHAR	HARRY LEE FAIN, III	R1	0.0000008		
1200	FAIWIL	WILLIAM HOWARD FAIN	R	0.0000050		
1200	FAIWIL	WILLIAM HOWARD FAIN	R1	0.0000008		
1200	FANKEN	KENNETH FANNIN	R	0.0000220		
1200	FANSTA	STANLEY FANNIN	R	0.0000220		
1200	FARWIL	WILLIAM FARLEY	R	0.0018530		
1200	FISDEB	DEBRA ANN FISHER	R	0.0001680		
1200	FOUCUR	CURTIS J. FOUSE	R	0.0001000	0 PAY	
1200	GAICAR	CAROL GAINER	R	0.0000100	0 PAY	
1200	GAINDA	DAVID S. GAINER	R	0.0000100	0 PAY	
1200	GAINDA	DAVID S. GAINER	R1	0.0000020	0 PAY	
1200	GARCOR	GARNET GAS CORPORATION	R	0.0003600	0 L03	
1200	GARCOR	GARNET GAS CORPORATION	R1	0.0000510	0 L03	
1200	GARCOR	GARNET GAS CORPORATION	R2	0.0000300	0 L03	
1200	GARCOR	GARNET GAS CORPORATION	R3	0.0000300		
1200	GILGLE	GLENN GILKINSON	R	0.0009260		
1200	GLASAN	SANDRA GLASS	R	0.0000080		
1200	GLOJOH	JOHN GLOVER	R	0.0012350		
1200	GODION	IONA PAULINE GODDARD	R	0.0000510		
1200	GOFDAV	DAVID GOFF	R	0.0001200		
1200	HALOUI	LOUIS HALL	R	0.0001200		
		BARBARA HARRIS	R	0.0001000		
1200	HARBAR HARDAR	DARRELL HARBIN	R	0.0016360		
1200		HENRY HARBIN	R	0.0010300		
1200	HARHEN		R	0.00010220		
1200	HARKEI	KEITH HARRIS				
1200	HARLEI	LEIGH HARBIN	R	0.0016360		
1200	HARLOI	LOIS CONLEY HARRIS	R	0.0000360		
1200	HARNOR	NORMA JEANNE HARBIN	R	0.0081800		
1200	HARPAT	PATRICIA DIANE HARTWIG	R	0.0001543		
1200	HARRDA	DANE L HARRIS	R	0.0005110		RECEIVED
1200	HARTRO	TORY HARRIS	R	0.0005110		Office of Oil and Gas
1200	HEAKEN	KENNA HEATH	R	0.0005110		Onice of Oil and Gas
1200	HENFRA	FRANK R HENRY	R	0.0000300		EED
1200	HENMAR	MARTHA P. HENRY	R	0.0000310		FEB <b>1 2</b> 2019
1200	HENMIC	MICHAEL KENNA HENDERSON	R	0.0000400		<del>.</del>
1200	HENRJA	HAMES MALCOLM HENRY	R	0.0000100		MAZ Dama da la c
1200	HENRJO	JO HENRY	R	0.0000300		WV Department of
1200	HENROS	ROSS HENRY	R	0.0000300	00 PAY	Environmental Protection

# Mountaineer State Energy Division of Interest Listing Property: Proposed Well #351

Duval Well# 351 (continued)

	<u>l Well# 351 (</u>	(continued)					
Acct		Owner's Name	Typ	Billing(WI) Revenue(NRI		Ext Sus Grp/Part	DI Ex O
1200	HINSAN	SANDRA HYRE HINRICHS	R	0.00013500			
1200	HOFFDI	ALBERT & DIANA HOFFMAN	R	0.00080000			
1200	HOLMAL	MALCENIA HENDERSON HOLBE	R	0.00004000			
1200	HUDJUA	HAZEL JUANITA HUDSON	R	0.00022000			
1200	HUDWAR	WARREN P HUDSON	R	0.00044000			
1200	HULBRE	BRETT HULBOY	R	0.00068180			
1200	HULDUS	DUSTIN HULBOY	R	0.00068160	PAY		
1200	HULJEF	JEFF HULBOY	R	0.00068160		-	
1200	HUNBRE	BRENDA ANGUS HUNT	R	0.00001440	PAY		
1200	HYRBIL	BILLY GUY HYRE	R	0.00004500			
1200	HYRHEA	HEATHER HYRE-CIEUTAT	R	0.00004500			
1200	HYRKRI	KRIS LEE HYRE	R	0.00004500			
1200	HYRPHI	PHILLIP DWIGHT HYRE	R	0.00013500	PAY		
1200	HYRROD	RODERICK PAUL HYRE	R	0.00013500			
1200	JDMILL	JDMI, LLC	R	0.00018000	PAY		
1200	JOHJAN	JANET CARROLL JOHNSON	R	0.00001000	PAY		
1200	JONCRY	CRYSTAL JONES	R	0.00041100	PAY		
1200	JONROS	ROSALIND RAMEY JONES	R	0.00185100	PAY		
1200	KELWIL	WILMA J KELCH	R	0.00540000	PAY		
1200	KENLIN	LINDA H. KENDALL	R	0.00555900	PAY		
1200	KINMAR	MARJORIE KING	R	0.00003600	PAY		
1200	KIRPAT	PATTI KIRK	R	0.00001500	L03		
1200	KIRPAT	PATTI KIRK	R1	0.00000000			
1200	KISLEN	LENORA KISH	R	0.00009000	PAY		
1200	KOOSTE	Steve Koontz	R	0.00014600			
1200	KURWAY	WAYNE OR VIRGINIA KURLINSKI	R	0.00061700			
1200	KUTKIM	KIMBERLY KUTSCHER	R	0.00002800	PAY		
1200	LAMEVE	EVELYN LAMIELL	R	0.00036000			
1200	LANCAN	CANDACE L. LANHAM	R	0.00033700			
1200	LAWJAM	JAMES LAWRENTZ	R	0.00004000			
1200	LAWJAN	JANICE T LAW	R	0.00004000			
1200	LAWJAN	JANICE T LAW	R1	0.0000000	L03		
1200	LESCHA	CHARLES LESTER	R	0.00024000	L03		
1200	LESERO	E ROY LESTER	R	0.00024000			
1200	LITART	ARTHUR C. LITTON, III	R	0.00007700			
1200	LITCLY	ESTATE OF CLYDE LITTON	R	0.00015400			
1200	LITFRA	FRANK LITTON JR & DORIS LITT	R	0.00015400			
1200	LITFRN	FRANK T. LITTON, JR.	R	0.00015400			
1200	LOCMEL	MELANIE LOCKHART	R	0.00000800			
1200	LOTCHA	CHARLENE LOTT	R	0.00003600			
1200	LOTDON	DONNA LOTT	R	0.00123500			
1200	LYOGLA	GLADYS LYONS	R	0.00015400			
1200	MADROS	ROSANNA MADVAY	R	0.00102200			
1200	MALHEL	HELEN MALESKI	R	0.00020000			
1200	MANPEG	PEGGY MANGUS	R	0.00030800			
1200	MARHEL	HELEN MARTIN	R	0.00010000			
1200	MARJUD	JUDITH MARTIN	R	0.00030000			
1200	MARLIN	LINDA LEE LITTON MARTIN	R	0.00007700			
1200	MARTHO	THOMAS MARTIN	R	0.00003000			
1200	MATDRE	DRENDA ANGUS MATHENY	R	0.00001440			
1200	MAYJAC	JACKIE MABRY	R	0.00002200			
1200	MCCROS	ROSA McCONNELL	R	0.00123400			
1200	MCCSHE	SHEILA McCOY	R	0.00540000			
1200	MCELOU	LOUELLA McELROY	R	0.00001500		REC	CEIVED
1200	MCGDEL	DELORES ANN McGUIRE	R	0.00005100			Oil and Gas
1200	MCKDON	DONALD McKIBBEN	R	0.0008600		300 01	J J. J
1200	MEEELE	ELEANOR MEEK	R	0.00060000		ררח	1 0 2010
1200	METMAC	MACY LYNN METZ	R	0.00005100		LER	<b>1 2</b> 2019
1200	MILBET	BETTY MILLER	R	0.00001300			
1200	MILGER	GERALD MILLER	R	0.00009000		WV De	partment of
1200	MITCAR	CAROLYN MITCHELL	R	0.00006600			ntal Protection

# Mountaineer State Energy Division of Interest Listing Property: Proposed Well #351

Duval Well# 351 (continued)

	Duva	i Well# 351	(continued)			<del></del>		1 =	1 - 1 - 1
MOODTHA   MOODTHA   LOS   MOODTHAN   L				Typ			Ext Sus Grp/Part	DI	Ex O
DODOLD   DONALD WAYNE MOORE   R   0.00015400   PAY   DONALD WAYNE WAYN									
MODUNIT   MORLOR									
MORLOR   MORLOR   MOUNT   Mountainerer State Energy, Inc.   O 0.00094500   PAY   MOUNT   Mountainerer State Energy, Inc.   O 0.00094500   PAY   Mountainer State Energy, Inc.   R1									
MOUNT   Mountaineer State Energy, Inc.   No.   0.00033500   PAY									
MOUNT   Mountaineer State Energy Inc.   R   0.000183600   PAY									
MOUNT   Mountaineer State Energy, Inc.   R1									
MOUNT   Mountaineer State Energy, Inc.   Mountaineer En									
MPHPRO									
MURGER   GERALD MURRAY   R									
1200   MÜRLOR   LÖRENE HÜNERSON MURNAHA   R									
1200									
1200   ODEMAX									
1200									
1200   OLEDAY   DAYNA WILDE   R   0.00002800   L03									
1200									
1200									
PARELY									
PARIRE									
1200   PERMAR   MARY CONLEY PERELIMAN   R   0.0003860   PAY     1200   PHILIN   JENNIFER PHILLIPS   R   0.00018600   PAY     1200   POLCHA   CHARLES W. PICKENS   R   0.00489780   PAY     1200   PICLA   CLIZABETHA P. PICKENS   R   0.00489780   PAY     1200   PICLA   CLIZABETHA P. PICKENS   R   0.00489780   PAY     1200   PICLA   LIZABETHA P. PICKENS   R   0.00490780   L01     1200   POSEYD   Debie Posey   R   0.00018600   PAY     1200   POSEYD   Debie Posey   R   0.00018600   PAY     1200   ROBCUR   CURTIS ROBBINS   R   0.00048000   DAY     1200   ROBCUR   CURTIS ROBBINS   R   0.00068000   DAY     1200   ROMART   ARTHUR ROMINE   R   0.00060000   DAY     1200   ROMGLE   GLENNIE SAMS   R   0.00048300   DAY     1200   SANDIA   DIANA SANDS   R   0.00048300   DAY     1200   SANSIA   DIANA SANDS   R   0.00048300   PAY     1200   SANSIA   DIANA SANDS   R   0.00048300   PAY     1200   SACAPHI   PHILLIP & TERESA SCARBERRY   R   0.00038000   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00018000   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00003000   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00005000   DAY     1200   SHASHI   SHIRLEY FAIN SHAMBLIN   R   0.0000500   DAY     1200   SHASHI   SHIRLEY FAIN SHAMBLIN   R   0.0000500   DAY     1200   SHASHI   SHIRLEY FAIN SHAMBLIN   R   0.0000500   DAY     1200   STARHE   RHENG STANLEY   R   0.0006100   PAY     1200   STARHE   SHIRLEY STUTLER   R   0.0002500   PAY     1200   THODAU   DAVID HINDRSON   R   0.0003100   PAY     1200   THODAU   DONALD LAND CAROLYN J THO   R   0.0003100   PAY     1200   THODAU   DONALD LAND CAROLYN J THO   R   0.0003100   PAY     1200   THODAU   DONALD LAND CAROLYN J THO   R   0.0003100   PAY     1200   THODAU   DONALD LAND CAROLYN J THO   R   0.00031100   PAY     1200   THODAU   DAVID W. THOMPSON   R   0.00031100   PAY     1200   THOMCA									
PHIJEN									
PILLMI									
PICCHA									
PICELA									
1200									
1200									
1200					0.0001460	PAY			
1200   ROBCUR   CURTIS ROBBINS   R   0.00046300   L03     1200   ROMART   ARTHUR ROMINE   R   0.00060000   DAY     1200   ROMGLE   GLEN ROMINE   R   0.00060000   PAY     1200   SAMGLE   GLENNIE SAMS   R   0.00026500   L03     1200   SANDIA   DIANA SANDS   R   0.00046300   PAY     1200   SANGER   GERALD HOWARD SANDS   R   0.00046300   PAY     1200   SANGER   GERALD HOWARD SANDS   R   0.00046300   PAY     1200   SAYJUA   JUANITA SAYRE   R   0.0003000   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00018000   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00003000   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00002500   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00002500   PAY     1200   SHASHI   SHIRLEY FAIN SHAMBLIN   R   0.00003000   PAY     1200   SHASHI   SHIRLEY FAIN SHAMBLIN   R   0.00000500   L02     1200   SHASHI   SHIRLEY FAIN SHAMBLIN   R   0.00000500   L02     1200   SMAMIC   MICHELLE SMALL   R   0.00004500   L03     1200   SMEMIC   MICHELE SMALL   R   0.00004500   L03     1200   SMEMIC   MICHELE SMEDLEY   R   0.000061700   PAY     1200   SMIWIL   WILLIAM F SMITH, II   R   0.00005100   PAY     1200   STARHE   RIHENA STANLEY   R   0.000061700   PAY     1200   THODAN   DONALD LAND CAROLYN J THO   R   0.00043800   PAY     1200   THODAN   DONALD LAND CAROLYN J THO   R   0.00043800   PAY     1200   THODAN   DONALD LAND CAROLYN J THO   R   0.00043800   PAY     1200   THODAN   DONALD LAND CAROLYN J THO   R   0.00043800   PAY     1200   THOMCA   CARL AND VICKIE THOMPSON   R   0.00043800   PAY     1200   THOMCA   CARL AND VICKIE THOMPSON   R   0.00043800   PAY     1200   THOMCA   CARL AND VICKIE THOMPSON   R   0.00043800   PAY     1200   THOMCA   CARL AND VICKIE THOMPSON   R   0.00024900   PAY   WV Department of									
1200   ROMART   ARTHUR ROMINE   R   0.00060000   L02     1200   ROMGLE   GLEN ROMINE   R   0.00060000   PAY     1200   SAMGLE   GLENNIE SAMS   R   0.00046300   PAY     1200   SANGIA   DIANA SANDS   R   0.00046300   PAY     1200   SANGER   GERALD HOWARD SANDS   R   0.00046300   PAY     1200   SAYJUA   JUANITA SAYRE   R   0.0003000   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00018000   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00007700   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00007700   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00003000   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00003000   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00002500   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00003000   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00002500   PAY     1200   SHASHI   SHIRLEY FAIN SHAMBLIN   R   0.00003000   PAY     1200   SHASHI   SHIRLEY FAIN SHAMBLIN   R   0.00000500   L02     1200   SHEBEV   BEVERLY JUNE SHEPPARD   R   0.00006100   PAY     1200   SMEMIC   MICHAEL SMEDLEY   R   0.0006100   PAY     1200   SMEMIC   MICHAEL SMEDLEY   R   0.0006100   PAY     1200   SMIFAM   THE SMITH FAMILY TRUST   R   0.0006100   PAY     1200   STANHE   REINA STANLEY   R   0.0006100   PAY     1200   STASHE   SHIRLEY STUTLER   R   0.0006100   PAY     1200   STASHE   SHENA STANLEY   R   0.0006100   PAY     1200   STASHE   SHENA STANLEY   R   0.0006100   PAY     1200   THODAN   DAVID W. THOMPSON   R   0.0002500   PAY     1200   THODAN   DONALD LAND CARCLYN J THO   R   0.00043800   PAY     1200   THODAN   DONALD LAND CARCLYN J THO   R   0.00043800   PAY     1200   THODAN   CARL AND VICKIE THOMPSON   R   0.00043800   PAY     1200   THOMCA   CARL AND VICKIE THOMPSON   R   0.00043800   PAY     1200   THOMCA   CARL AND VICKIE THOMPSON   R   0.00043800   PAY     1200   THOMCA   CARL AND VICKIE THOMPSON   R   0.00020500   PAY     1200   THOMCA   CARL AND VICKIE THOMPSON   R   0.00020500   PAY     12					0.0004630	L03			
1200   SAMGLE   GLENNIE SAMS   R   0.0002500   L03     1200   SANDIA   DIANA SANDS   R   0.00046300   PAY     1200   SANSER   GERALD HOWARD SANDS   R   0.00046300   PAY     1200   SAYJUA   JUANITA SAYRE   R   0.0003000   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00018000   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00007700   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00007700   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00007200   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00003000   PAY     1200   SHAANN   ANN SHAMBLIN   R   0.00003000   PAY     1200   SHASHI   SHIRLEY FAIN SHAMBLIN   R   0.00000500   L02     1200   SHASHI   SHIRLEY FAIN SHAMBLIN   R   0.00005100   PAY     1200   SHASHI   SHIRLEY FAIN SHAMBLIN   R   0.00005100   PAY     1200   SMEMIC   MICHAEL SMEDLEY   R   0.00061700   PAY     1200   SMEMIC   MICHAEL SMEDLEY   R   0.00005100   PAY     1200   SMIFAM   THE SMITH FAMILY TRUST   R   0.00005100   PAY     1200   STAAUD   AUDRA STALNAKER   R   0.00005100   PAY     1200   STARHE   RHENA STANLEY   R   0.00005100   PAY     1200   STARHE   RHENA STANLEY   R   0.00052000   PAY     1200   SWAROB   ROBERT SWARTZ   R   0.00022000   DAY     1200   THODAL   DAYLD W. THOMPSON   R   0.00022000   PAY     1200   THODAL   DAYLD W. THOMPSON   R   0.00023000   PAY     1200   THODAL   DAYLD W. THOMPSON   R   0.00043800   PAY     1200   THODAC   CARL AND VICKIE THOMPSON   R   0.00043800   PAY     1200   THOMCA   CARL AND VICKIE THOMPSON   R   0.00043800   PAY     1200   THOMCA   CARL AND VICKIE THOMPSON   R   0.00043800   PAY     1200   THOMCA   CARL AND VICKIE THOMPSON   R   0.00043800   PAY     1200   THOMCA   CARL AND VICKIE THOMPSON   R   0.00043800   PAY     1200   THOMCA   CARL AND VICKIE THOMPSON   R   0.00023000   PAY     1200   THOMCA   CARL AND VICKIE THOMPSON   R   0.00023000   PAY     1200   THOMIC   MICHAEL A THOMPSON   R   0.00023000   PAY     1200   THOMIC   MICHAEL A THOMPSON   R   0.00023000   PAY     1200   THOMIC   M			ARTHUR ROMINE	R	0.0006000	L02			
1200   SANDIA   DIANA SANDS   R   0.00046300   PAY   1200   SANGER   GERALD HOWARD SANDS   R   0.00046300   PAY   1200   SAYJUA   JUANITA SAYRE   R   0.0003000   PAY   1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00018000   PAY   1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00007700   PAY   1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R1   0.00007700   PAY   1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R2   0.00002250   PAY   1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R2   0.00003000   PAY   1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R2   0.00003000   PAY   1200   SHASHI   SHIRLEY FAIN SHAMBLIN   R   0.00003000   PAY   1200   SHASHI   SHIRLEY FAIN SHAMBLIN   R   0.00005000   L02   1200   SHESEV   BEVERLY JUNE SHEPPARD   R   0.00005100   PAY   1200   SMAMIC   MICHAEL SMEDLEY   R   0.00004500   L03   1200   SMEMIC   MICHAEL SMEDLEY   R   0.00004500   PAY   1200   SMIWIL   WILLIAM F SMITH ; II   R   0.00004000   PAY   1200   SMIWIL   WILLIAM F SMITH, II   R   0.00005100   PAY   1200   STAAUD   AUDRA STALNAKER   R   0.00015400   PAY   1200   STARHE   RHENA STANLEY   R   0.00015400   PAY   1200   STARHE   RHENA STANLEY   R   0.00015400   PAY   1200   SWAROB   ROBERT SWARTZ   R   0.00022000   L05	1200	ROMGLE	GLEN ROMINE	R	0.0006000	PAY			
1200   SANGER   GERALD HOWARD SANDS   R   0.00046300   PAY     1200   SAYJUA   JUANITA SAYRE   R   0.00003000   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R   0.00018000   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R1   0.00007700   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R1   0.00002500   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R2   0.00002250   PAY     1200   SCAPHI   PHILLIP & TERESA SCARBERRY   R2   0.00003000   PAY     1200   SHASHI   SHIRLEY FAIN SHAMBLIN   R   0.00003000   DAY     1200   SHASHI   SHIRLEY FAIN SHAMBLIN   R1   0.00000500   L02     1200   SHESEV   BEVERLY JUNE SHEPPARD   R   0.00005100   PAY     1200   SMEMIC   MICHAEL SMEDLEY   R   0.00061700   PAY     1200   SMEMIC   MICHAEL SMEDLEY   R   0.00061700   PAY     1200   SMIFAM   THE SMITH FAMILY TRUST   R   0.00005100   PAY     1200   SNYMAR   MARY FRANCES SNYDER   R   0.00007200   PAY     1200   STAAUD   AUDRA STALNAKER   R   0.0005100   PAY     1200   STARHE   RHENA STANLEY   R   0.00061700   PAY     1200   STUSHI   SHIRLEY STUTLER   R   0.00022000   L05     1200   SWAROB   ROBERT SWARTZ   R   0.00022000   L05     1200   THODAV   DAVID W. THOMPSON   R   0.00043800   PAY     1200   THODAV   DAVID W. THOMPSON   R   0.00043800   PAY     1200   THODAV   DAVID W. THOMPSON   R   0.00043800   PAY     1200   THOMCA   CARL AND VICKIE THOMPSON   R   0.00043800   PAY     1200   THOMCA   CARL AND VICKIE THOMPSON   R   0.00043800   PAY     1200   THOMCA   CARL AND VICKIE THOMPSON   R   0.00043800   PAY     1200   THOMCA   CARL AND VICKIE THOMPSON   R   0.00043800   PAY     1200   THOMIC   MICHAEL A THOMPSON   R   0.00043800   PAY     1200   THOMIC   MICHAEL A THOMPSON   R   0.00025000   PAY     1200	1200	SAMGLE	GLENNIE SAMS	R	0.0002050				
1200   SAYJUA   JUANITA SAYRE   R   0.00003000   PAY   PHILLIP & TERESA SCARBERRY   R   0.00018000   PAY	1200	SANDIA			0.0004630				
1200   SCAPHI									
1200   SCAPHI									
1200         SCAPHI         PHILLIP & TERESA SCARBERRY         R2         0.00002250         PAY           1200         SHAANN         ANN SHAMBLIN         R         0.00003000         PAY           1200         SHASHI         SHIRLEY FAIN SHAMBLIN         R1         0.00000500         L02           1200         SHASHI         SHIRLEY FAIN SHAMBLIN         R1         0.000005100         PAY           1200         SHEBEV         BEVERLY JUNE SHEPPARD         R         0.00005100         PAY           1200         SMAMIC         MICHELLE SMALL         R         0.00004500         L03           1200         SMEMIC         MICHAEL SMEDLEY         R         0.00004700         PAY           1200         SMEMIC         MICHAEL SMEDLEY         R         0.00004700         PAY           1200         SMEMIC         MICHAEL SMEDLEY         R         0.00004400         PAY           1200         SMIFAM         THE SMITH FAMILY TRUST         R         0.00004000         PAY           1200         SMIFAM         THE SMITH, II         R         0.00007200         PAY           1200         STARDA         AUDRA STALNAKER         R         0.000154200         PAY									
1200         SHAANN         ANN SHAMBLIN         R         0.00003000         PAY           1200         SHASHI         SHIRLEY FAIN SHAMBLIN         R         0.00000500         L02           1200         SHASHI         SHIRLEY FAIN SHAMBLIN         R1         0.00006100         PAY           1200         SHEBEV         BEVERLY JUNE SHEPPARD         R         0.00004500         L03           1200         SMAMIC         MICHELE SMALL         R         0.00061700         PAY           1200         SMEMIC         MICHAEL SMEDLEY         R         0.00061700         PAY           1200         SMIFAM         THE SMITH FAMILY TRUST         R         0.0004500         PAY           1200         SMIFAM         THE SMITH, II         R         0.0004500         PAY           1200         SMIFAM         THE SMITH, II         R         0.00005100         PAY           1200         SMIFAM         MARY FRANCES SNYDER         R         0.0005100         PAY           1200         STAAUD         AUDRA STALNAKER         R         0.0005100         PAY           1200         STARHE         RHENA STANLEY         R         0.00022000         PAY           1200									
1200   SHASHI									
1200   SHASHI   SHIRLEY FAIN SHAMBLIN   R1   0.00000083   L02     1200   SHEBEV   BEVERLY JUNE SHEPPARD   R   0.00005100   PAY     1200   SMAMIC   MICHELLE SMALL   R   0.00004500   L03     1200   SMEMIC   MICHAEL SMEDLEY   R   0.00061700   PAY     1200   SMIFAM   THE SMITH FAMILY TRUST   R   0.00005100   PAY     1200   SMIWIL   WILLIAM F SMITH, II   R   0.00005100   PAY     1200   STARM   MARY FRANCES SNYDER   R   0.000154200   PAY     1200   STAAUD   AUDRA STALNAKER   R   0.00154200   PAY     1200   STARHE   RHENA STANLEY   R   0.00061700   PAY     1200   STUSHI   SHIRLEY STUTLER   R   0.00022000   L05     1200   SWAROB   ROBERT SWARTZ   R   0.00022000   L05     1200   SWAROB   ROBERT SWARTZ   R   0.00022000   PAY     1200   THODAL   JOYCE E THOMPSON   R   0.00043800   PAY     1200   THODAV   DAVID W. THOMPSON   R   0.00021900   PAY     1200   THODAR   EARL W. THOMPSON   R   0.00043800   PAY     1200   THODAR   EARL W. THOMPSON   R   0.00043800   PAY     1200   THOMCA   CARL AND VICKIE THOMPSON   R   0.00043800   PAY     1200   THOMIC   MICHAEL A THOMPSON   R   0.00043800   PAY     1200   THOMIC   MICHAEL A THOMPSON   R   0.00021900   PAY     1200   THORAY   RAY THORNTON   R   0.00021900   PAY     1200   THORAY   RAY THOR									
1200         SHEBEV         BEVERLY JUNE SHEPPARD         R         0.00005100         PAY           1200         SMAMIC         MICHELLE SMALL         R         0.00004500         L03           1200         SMEMIC         MICHAEL SMEDLEY         R         0.00061700         PAY           1200         SMIFAM         THE SMITH FAMILY TRUST         R         0.00005100         PAY           1200         SMIWIL         WILLIAM F SMITH, II         R         0.00005100         PAY           1200         SNYMAR         MARY FRANCES SNYDER         R         0.00007200         PAY           1200         STAAUD         AUDRA STALNAKER         R         0.00154200         PAY           1200         STARHE         RHENA STANLEY         R         0.00022000         L05           1200         STUSHI         SHIRLEY STUTLER         R         0.00022000         L05           1200         SWAROB         ROBERT SWARTZ         R         0.00022000         PAY           1200         THOCAR         CARL THORNTON         R         0.00023600         PAY           1200         THODAV         DAVID W. THOMPSON         R         0.00043800         PAY           1200									
1200         SMAMIC         MICHELLE SMALL         R         0.00004500         L03           1200         SMEMIC         MICHAEL SMEDLEY         R         0.00061700         PAY           1200         SMIFAM         THE SMITH FAMILY TRUST         R         0.00004000         PAY           1200         SMIWIL         WILLIAM F SMITH, II         R         0.00005100         PAY           1200         SNYMAR         MARY FRANCES SNYDER         R         0.000154200         PAY           1200         STAAUD         AUDRA STALNAKER         R         0.00154200         PAY           1200         STARHE         RHENA STANLEY         R         0.00061700         PAY           1200         STUSHI         SHIRLEY STUTLER         R         0.00022000         L05           1200         SWAROB         ROBERT SWARTZ         R         0.00022000         PAY           1200         THOCAR         CARL THORNTON         R         0.0002300         PAY           1200         THODAV         DAVID W. THOMPSON         R         0.00021900         PAY           1200         THODAR         EARL W. THOMPSON         R         0.00043800         PAY           1200 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
1200         SMEMIC         MICHAEL SMEDLEY         R         0.00061700         PAY           1200         SMIFAM         THE SMITH FAMILY TRUST         R         0.00004000         PAY           1200         SMIWIL         WILLIAM F SMITH, II         R         0.00005100         PAY           1200         SNYMAR         MARY FRANCES SNYDER         R         0.00007200         PAY           1200         STAAUD         AUDRA STALNAKER         R         0.00154200         PAY           1200         STARHE         RHENA STANLEY         R         0.00061700         PAY           1200         STUSHI         SHIRLEY STUTLER         R         0.00022000         L05           1200         SWAROB         ROBERT SWARTZ         R         0.00022000         PAY           1200         THOCAR         CARL THORNTON         R         0.00023500         PAY           1200         THODAV         DAVID W. THOMPSON         R         0.00021900         PAY           1200         THODAR         EARL W. THOMPSON         R         0.00043800         PAY           1200         THOGAR         EARL W. THOMPSON         R         0.000243800         PAY           1200									
1200   SMIFAM   THE SMITH FAMILY TRUST   R   0.00004000   PAY     1200   SMIWIL   WILLIAM F SMITH, II   R   0.00005100   PAY     1200   SNYMAR   MARY FRANCES SNYDER   R   0.00007200   PAY     1200   STAAUD   AUDRA STALNAKER   R   0.00154200   PAY     1200   STARHE   RHENA STANLEY   R   0.00061700   PAY     1200   STUSHI   SHIRLEY STUTLER   R   0.00022000   L05     1200   SWAROB   ROBERT SWARTZ   R   0.00022000   PAY     1200   THOCAR   CARL THORNTON   R   0.00020500   PAY     1200   THODAL   JOYCE E THOMPSON   R   0.00043800   PAY     1200   THODAV   DAVID W. THOMPSON   R   0.00043800   PAY     1200   THODAR   EARL W. THOMPSON   R   0.00043800   PAY     1200   THOJUD   JUDY ANN THOMPSON   R   0.00043800   PAY     1200   THOMCA   CARL AND VICKIE THOMPSON   R   0.00043800   PAY     1200   THOMCA   CARL AND VICKIE THOMPSON   R   0.00043800   PAY     1200   THOMIC   MICHAEL A THOMPSON   R   0.00021900   PAY     1200   THOMAY   RAY THORNTON   R   0.00020500   PAY     1200   THORAY   RAY THORNTON   R   0.00020500   PAY   WV Department of									
1200         SMIWIL         WILLIAM F SMITH, II         R         0.00005100         PAY           1200         SNYMAR         MARY FRANCES SNYDER         R         0.00007200         PAY           1200         STAAUD         AUDRA STALNAKER         R         0.00154200         PAY           1200         STARHE         RHENA STANLEY         R         0.00061700         PAY           1200         STUSHI         SHIRLEY STUTLER         R         0.00022000         L05           1200         SWAROB         ROBERT SWARTZ         R         0.00022000         PAY           1200         THOCAR         CARL THORNTON         R         0.00022500         PAY           1200         THODAL         JOYCE E THOMPSON         R         0.00021900         PAY           1200         THODAV         DAVID W. THOMPSON         R         0.00043800         PAY           1200         THOEAR         EARL W. THOMPSON         R         0.00043800         PAY           1200         THOMCA         CARL AND VICKIE THOMPSON         R         0.00043800         PAY           1200         THOMIC         MICHAEL A THOMPSON         R         0.00021900         PAY           1200									
1200         SNYMAR         MARY FRANCES SNYDER         R         0.00007200         PAY           1200         STAAUD         AUDRA STALNAKER         R         0.00154200         PAY           1200         STARHE         RHENA STANLEY         R         0.00061700         PAY           1200         STUSHI         SHIRLEY STUTLER         R         0.00022000         L05           1200         SWAROB         ROBERT SWARTZ         R         0.00022500         PAY           1200         THOCAR         CARL THORNTON         R         0.00020500         PAY           1200         THODAL         JOYCE E THOMPSON         R         0.00021900         PAY           1200         THODAV         DAVID W. THOMPSON         R         0.00043800         PAY           1200         THOEAR         EARL W. THOMPSON         R         0.00043800         PAY           1200         THOJUD         JUDY ANN THOMPSON         R         0.00043800         PAY           1200         THOMCA         CARL AND VICKIE THOMPSON         R         0.00043800         PAY           1200         THOMIC         MICHAEL A THOMPSON         R         0.00021900         PAY           1200									
1200         STAAUD         AUDRA STALNAKER         R         0.00154200         PAY           1200         STARHE         RHENA STANLEY         R         0.00061700         PAY           1200         STUSHI         SHIRLEY STUTLER         R         0.00022000         L05           1200         SWAROB         ROBERT SWARTZ         R         0.00022600         PAY           1200         THOCAR         CARL THORNTON         R         0.00020500         PAY           1200         THODAL         JOYCE E THOMPSON         R         0.00043800         PAY           1200         THODAV         DAVID W. THOMPSON         R         0.00043800         PAY           1200         THOEAR         EARL W. THOMPSON         R         0.00043800         PAY           1200         THOJUD         JUDY ANN THOMPSON         R         0.00043800         PAY           1200         THOMCA         CARL AND VICKIE THOMPSON         R         0.00043800         PAY           1200         THOMIC         MICHAEL A THOMPSON         R         0.00021900         PAY           1200         THORAY         RAY THORNTON         R         0.00020500         PAY    WV Department of									
1200         STARHE         RHENA STANLEY         R         0.00061700         PAY           1200         STUSHI         SHIRLEY STUTLER         R         0.00022000         L05           1200         SWAROB         ROBERT SWARTZ         R         0.00092600         PAY           1200         THOCAR         CARL THORNTON         R         0.00020500         PAY           1200         THODAL         JOYCE E THOMPSON         R         0.00043800         PAY           1200         THODAV         DAVID W. THOMPSON         R         0.00043800         PAY           1200         THOEAR         EARL W. THOMPSON         R         0.00043800         PAY           1200         THOJUD         JUDY ANN THOMPSON         R         0.00051125         PAY           1200         THOMCA         CARL AND VICKIE THOMPSON         R         0.00043800         PAY           1200         THOMIC         MICHAEL A THOMPSON         R         0.00021900         PAY           1200         THORAY         RAY THORNTON         R         0.00020500         PAY									
1200         STUSHI         SHIRLEY STUTLER         R         0.00022000         L05           1200         SWAROB         ROBERT SWARTZ         R         0.00092600         PAY           1200         THOCAR         CARL THORNTON         R         0.00020500         PAY           1200         THODAL         JOYCE E THOMPSON         R         0.00043800         PAY           1200         THODAV         DAVID W. THOMPSON         R         0.00043800         PAY           1200         THOEAR         EARL W. THOMPSON         R         0.00043800         PAY           1200         THOJUD         JUDY ANN THOMPSON         R         0.00051125         PAY           1200         THOMCA         CARL AND VICKIE THOMPSON         R         0.00043800         PAY           1200         THOMIC         MICHAEL A THOMPSON         R         0.00021900         PAY           1200         THORAY         RAY THORNTON         R         0.00020500         PAY    WV Department of									
1200         SWAROB         ROBERT SWARTZ         R         0.00092600         PAY           1200         THOCAR         CARL THORNTON         R         0.00020500         PAY           1200         THODAL         JOYCE E THOMPSON         R         0.00043800         PAY           1200         THODAV         DAVID W. THOMPSON         R         0.00021900         PAY           1200         THODON         DONALD L AND CAROLYN J THO         R         0.00043800         PAY           1200         THOEAR         EARL W. THOMPSON         R         0.00043800         PAY           1200         THOJUD         JUDY ANN THOMPSON         R         0.00043800         PAY           1200         THOMCA         CARL AND VICKIE THOMPSON         R         0.00043800         PAY           1200         THOMIC         MICHAEL A THOMPSON         R         0.00021900         PAY           1200         THORAY         RAY THORNTON         R         0.00020500         PAY    WV Department of									
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\*TOTAL\*

## Mountaineer State Energy Division of Interest Listing Property: Proposed Well #351

Duva	ıl Well# 351	(continued)					
Acct	Owner	Owner's Name	Тур	Billing(WI) Revenue(NRI	Susp	Ext Sus Grp/Part DI	Ex O
1200	TIMEDG	EDGAR TIMMS	R	0.00036000			
1200	TOLBET	BETTY TOLLEY	R	0.00007200			
1200	TOLERL	ERLENE B TOLLEY	R	0.00009000			
1200	TOLGAR	GARY TOLLEY	R	0.0009000	L03		
1200	TOLJAC	JACK TOLLEY	R	0.00009000	PAY		
1200	TOLJIM	JIMMY TOLLEY	R	0.00009000	L03		
1200	TOLMEL	MELVIN R TOLLEY	R	0.00009000			
1200	TOLRAM	RAMAH TOLLEY	R	0.0009000	PAY		
1200	TOLWIL	WILLIAM O TOLLEY	R	0.00007200	L03		
1200	TOMPAT	PATRICIA S. TOM	R	0.00000800	PAY		
1200	TRIPJO	JOHN AND DOROTHY TRIPLETT	R	0.00006600	PAY		
1200	TRUDAV	DAVID L TRUMAN	R	0.00031900	PAY		
1200	TRUSTE	STEVE TRUMAN	R	0.00011000	PAY		
1200	VANVEL	VELMA VanGORDER	R	0.00003600	PAY		
1200	WACO	WACO	0	0.00733300	PAY		
1200	WARLOI	LOIS WARD	R	0.00002800	PAY		
1200	WATKEV	KEVIN WATSON	R	0.00000800	PAY		
1200	WATMAR	MARTIN WATSON	R	0.00000800	PAY		
1200	WAYEDW	EDWINA ANGUS WAYBRIGHT	R	0.00001440	PAY		
1200	WAYGAR	GARY ALLEN WAYBRIGHT	R	0.00016800	PAY		
1200	WAYJAM	JAMES KWAYBRIGHT	R	0.00033700	PAY		
1200	WAYJEF	JEFFREY LEE WAYBRIGHT	R	0.00016800			
1200	WAYMIL	MILLIE W WAYBRIGHT	R	0.00067500	PAY		
1200	WAYOTI	OTIS WAYBRIGHT	R	0.00033700	PAY		
1200	WAYROB	ROBERT WAYBRIGHT	R	0.00011200	PAY		
1200	WAYSTE	STEVEN WAYBRIGHT	R	0.00011200			
1200	WAYTHO	THOMAS WAYNE WAYBRIGHT	R	0.00016800	L03		
1200	WEBCHA	CHARLES R. WEBB	R	0.00015433	PAY		
1200	WELGAR	GARRY L. WELCH	R	0.00015433	L03		
1200	WESILA	ILA G WESTFALL	R	0.00046300	L03		
1200	WILCLA	CLARK WILLIAMSON	R	0.00030900	PAY		
1200	WILJOY	JOYCE WILLIAMS	R	0.00007200			
1200	WOLDOW	DOW OLIVER WOLFE	R	0.00061700	L03		
1200	WRIANG	ANGELA WRIGHT	R	0.0009000			
1200	YOHCAR	CAROL EAKINS YOHO	R	0.00005100	PAY		
1200	YOHCAR	CAROL EAKINS YOHO	R1	0.00000000	PAY		
1200	YOUAUS	AUSTIN G. YOUNG	R	0.00051125			
1200	YOUDAV	DAVID YOUNG	R	0.00051125			
1200	YOUWAY	WAYNE A. YOUNG	R	0.00051125			
1200	ZANLIS	LISA L ZANISH	R	0.00011200			
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Office of Oil and Gas

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WV Department of Environmental Protection



#### E. SYSTEM OF MAINTAINING DETAILED RECORDS

A detailed drillers log will be maintained at all times.

Including but not limited to:

- Lost Circulation
- Presence of hydrogen sulfide gas (H2S)
- Fluid entry
- Kicks
- · Abnormal pressure

#### F. NOTIFICATION OF THE OFFICE OF OIL AND GAS

#### **Expired Date**

The WV DEP Office of Oil and Gas will be immediately notified of the presence of hydrogen sulfide gas above 10 ppm, significant kicks, or blow out events.

#### G. WELL HEAD ASSEMBLY (Completion)

Upon Completion of the well it is anticipated that a 4.5" x 2.3/8" wellhead is to be installed on the 4.5" casing and 2.3/8" tubing will be ran as a production string.

#### H. WELL KILLING PROCEDURE

The 351 Well is planned to be drilled in an underbalanced environment using compressed air for drilling medium. Natural gas shows while drilling will be taken through the surface equipment in a controlled manner. It is not anticipated that there will be large natural shows of gas that would warrant the well to be killed. If however, circumstances arise that would deem it necessary to kill the well, a pumping unit and all necessary materials will be ordered out to load the hole and kill the well.



#### 5. BOP AND WELL CONTROL

A. BOP EQUIPMENT AND CASING HEADS: (DRILLER HAS NOT BEEN SELECTED YET BUT ALL BOP INFORMATION WILL BE UPDATED BASED ON DRILLER PROTOCOLS AND FOLLOWING WV DEP REGULATIONS)

- 3M Annular BOP to be installed for the 8 3/4" hole section.
- 7 1/16" 5M Screw on Casing head.
- 7 1/16" 3M Annular BOP to be installed for the 6 3/8" hole section.

#### B. BOP TESTING PROCEDURES:

• Annular Preventers will be tested upon installation, then at least once every 21 days. Testing procedure will use water or air as medium and consist of a low pressure (300psi) test and a high pressure (70% of WP or 80% Casing Burst). Pressure will be held for 30 min.

#### C. BOP EQUIPMENT AND INSTALLATION SCHEDULE:

- After setting and cementing 9 5/8" surface casing a 3000 psi annular BOP is to be flanged up directly to the casing.
- After setting and cementing 7" Intermediate Casing, the well will be fitted with a screw on 7 1/16" API 5000 psi wellhead. A 7 1/16" 3000 psi Annular BOP will be flanged up to wellhead and tested according to procedure before drilling bottom hole section.

#### D. NAMES OF WELL CONTROL TRAINING

Throughout operations, the following Mountaineer State Energy Employees shall have and maintain Well Control Certification. Any on site consultants hired to oversee drilling or completions must have and prove a current Certification of Well Control Training.

NAMES	ISSUED DATE	EXPIRATION DATE



### 2. CONTACTS, SCHEDULES, AND MEETINGS

- A. 24 Hour Emergency Contact for Mountaineer State Energy: (1-800-xxx-xxxx)
- B. List of Telephone Numbers:

OPERATOR:	EMPLOYEE NAME:	EMERGENCY NUMBER:	CELL PHONE NUMBER:
MOUNTAINEER STATE ENERGY OFFICE (24 HOUR CONTACT)			
OTHER MOUNTAINEER STATE ENERGY CONTACTS			

KEY CONTRACTORS:			
BBU Environmental:	Spill Response	304-372-8192	1-866-925-8192
Safety Kleen	Spill Response	304-755-4279	
Enviroprobe	Spill Response	304-776-6717	
R&R Well Service	Spill Response	304-531-4822	
Haz-tech Environmental	Spill Response	800-304-4286	
Mcjunkin Redman	Pipe/Equip Venders	304-562-5724	
Miller Supply	Pipe/Equip Venders	304-595-5105	740-373-6806
Hildreth Supply	Pipe/Equip Venders	304-927-2170	
TekSolv	H2S Monitoring	304-472-4800	304-472-0007
Drilling contractor TBD	Drilling Contractors		
Drilling contractor TBD	Drilling Contractors		DECEMEN
Baker Hughes	Cementing/pumping	1-304-624-9802	Office of Oil and Gas
Haliburton	Cementing/pumping		FEB 1 2 2019
Schlumberger	Cementing/pumping	1-304-269-1939	WV Department of
Universal	Cementing/pumping	1-304-473-8960	Environmental Protection
C&J	Cementing/pumping		1-276-679-5860
Weatherford	Wellhead/BOP/control	1-304-884-8103	1-724-754-9439
Universal Wellhead	Wellhead/BOP/control	1-740-492-0403	