

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

November 09, 2015

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-3906375, issued to RESERVE OIL & GAS, INC., 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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 feet free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chie

Operator's Well No: HARMON 1

Farm Name: MARKER, GARCIE

API Well Number: 47-3906375

Permit Type: Vertical Well Date Issued: 11/09/2015

Promoting a healthy environment.

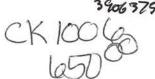
PERMIT CONDITIONS

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, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov 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

		-				Jefferson 5	290
1) Well Operato	r: Rese	rve Oil &	Gas, Inc.	310-324	Kanawha	Sprin Hill Corp.	Charleston West
				Operator ID	County	District	Quadrangle
2) Operator's W	ell Numb	er: <u>Harm</u>	on #1		3) Elevation:	614	
4) Well Type: (a	ı) Oil	or Ga	as x				
(b) If Gas:	Produ	iction <u>×</u> / Und	lerground Sto	rage		
		Deep	o/ S	hallow <u>×</u>	_		
5) Proposed Ta 6) Proposed To 7) Approximate 8) Approximate	tal Depth fresh wa	: <u>⁴³⁵⁰</u> ter strata	depths: 200	ron/Rhinestreet promation at F			
9) Approximate	coal sea	m depths	s: None				
10) Approximate	e void de	pths,(coa	al, Karst, other):	N/A		RECE	IVED
11) Does land c	ontain co	al seam	s tributary to acti	ve mine? N	0	Office of Oil	and Gas
			nd fracturing methole le well with 2 stage				
•					En	WV Depart	ment of Protection
13)		CA	SING AND TUB	ING PROGR	AM) Le-18	3.15
TYPE S	PECIFIC	ATIONS	(i	FOOTAGE	INTERVALS		
	<u>Size</u>	<u>Grade</u>	Weight per ft	For Drilling	Left in Well	Fill -up (Cu.	Ft.)
Conductor	13 3/8"			20'		CTS	
Fresh Water	9 5/8"			270'		CTS x 40%	excess
Coal				330			
Intermediate	7"			1800'		CTS x 30% exce	ess in hole
Production	4 1/2"			4300'		120 sl	KS
Tubing							
Liners							
Packers: Kind Size: Dept							

WW-2A1 (Rev. 1/11)

Operator's	Well	Number	Harmon #1
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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
Garcie R. Marker & Geraldine Marker	Reserve Oil & Gas, Inc.	1/8	Not yet recorded
			See attack

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

RECEIVED
Office of Oil and Gas

OCT 2 7 2015

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, on of 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 afficient activity is initiated.

	Reserve Oil & Gas, Inc.	
Well Operator:	Jale St. It	
By:Its:	Vice President	

OIL AND GAS LEASE

THIS LEASE, made and entered into this _______ day of ________, 2015, by and between:

Garcie R Marker & Geraldine Marker

420 Champion Drive

South Charleston, WV 25309

hereinafter called Lessor(s) and Reserve Oil & Gas, Inc. 929 Charleston Road, Spencer, WV 25276, herein after called Lessee.

WITNESSETH:

1. That the Lessor for and in consideration of the sum of ONE DOLLAR (\$1.00) and other good and valuable considerations in hand paid by the Lessee, the receipt of which is hereby acknowledged, and the covenants and agreements herein contained, hereby grants demises, leases and lets exclusively unto the Lessee the lands hereafter described for the purposes of prospecting, exploring by geophysical and other methods, drilling, operating for, producing oil and gas, or both, and the constituents thereof, including coal bed methane gas, together with the right of way and easement to construct, install, operate, repair, maintain and remove pipelines, telephone, power and electric lines, tanks, ponds, roadways, plants, equipment and structures thereon to access, produce, save, store, transport, and take care of any such substances produced from the leasehold or produced from adjoining and neighboring lands, provided that any such easements shall survive the term of this agreement for so long thereafter as operations are continued and the exclusive right to inject air, gas, water, brine and other fluids into the subsurface strata, and any and all other rights privileges necessary, incident to, or convenient for the economical operation of the lands for these purposes, said lands being situated in the Districts of Spring Hill, Counties Kanawha, State of WEST VIRGINIA , and being bounded now or formerly substantially as follows, to wit:

Tax Map 30 Parcel(s) 7.2 More fully described in Deed Book 2285 Page 93.

WATERS OF: Davis Creek

ON THE NORTH BY: Dopplewood Estates

ON THE EAST BY: WV Regional Technology Park

ON THE SOUTH BY: EE Moore ON THE WEST BY: James Q. Hull

hereinafter called "premises" being the same land conveyed in whole or in part to Lessor by <u>Deed</u> dated <u>December 17, 1991</u> from <u>Guthrie Fence & Supply Co</u>. and recorded in <u>Deed Book 2285 at page 93</u>. For all purposes of this lease, the premises shall be deemed to contain <u>3.81</u> acres, whether more or less. This lease covers all of the land above, and in addition thereto, it covers and is hereby leased, let and demised to the same extent as if they were described herein specifically, all lands owned or claimed by Lessor adjacent or continguous to, or a part of the tract or tracts described hereinabove. For all purposes of this lease references to oil and gas or either or both of them shall mean oil, or gas, or both and all substances which are constituents of or produced with oil or gas, including coal bed methane gas, whether similar or dissimilar or produced in a gaseous, liquid, or solid state.

- 2. This lease shall remain in force for a term of Six (6) months from the date hereof and as long thereafter as oil or gas is produced in paying quantities or this lease is maintained in force by any subsequent provision hereof.
 - 3 -Lessee shall pay Lessor a One Thousand (\$1,000.00) Dollar bonus upon signing of the lease.
- 4. All money due under this lease shall be paid or tendered to the Lessor by check made payable the order of and mailed to:

 LESSOR at address above and the said named person shall continue as Lessor's agent to receive any and all sums payable under this lease regardless of changes in ownership in the premises, or in the oil and gas or their constituents, or in rentals or royalties accruing hereunder until delivery to the Lessee of notice of change of ownership as hereinafter provided.
- 5. Lessee shall pay Lessor as royalty for all oil and the constituents thereof, produced and saved from any well or wells drilled on the leased premises, an amount equal to one eighth (1/8th) or 12.5% of net proceeds received by Lessee from the sale of such oil in the tanks, pipelines or other facilities, to which the Lessee may connect its wells, and shall pay Lessor as royalty for all gas, coalbed methane gas and the constituents and related by-products therefrom, including all liquid, solid or gaseous substances produced and saved from any sand or sands on the leased premises, an amount equal to one-eighth (1/8th) or 12.5% of the net proceeds received by Lessee from the sale of such gas, coalbed methane gas, or the constituents and related by-products therefrom, at the point of sale to an unrelated third party in an arms length transaction.
- 6. The consideration, land rentals, well rentals or royalties paid and to be paid, as herein provided, are and will be accepted by the Lessor as adequate and full consideration for all rights herein granted to the Lessee and further right of drilling or not drilling on the leased premise, whether to offset producing wells on adjacent lands or otherwise, as the Lessee may elect.
- 7. No well shall be drilled within 200 feet of the present buildings unless both parties consent thereto. The lessee shall bury all pipelines, except necessary above ground appurtenances, below plow depth. The Lessee shall pay all damages relating to growing crops, buildings, fences and trees caused by its operations under this lease. All reclamation of well sites, tank sites and other surface damage shall be completed in accordance with the rules and regulations of the Department of Energy, Division of Oil And Gas, of the state in which the well is drilled. Any damages if not mutually agreed upon, to be ascertained and determined by three disinterested persons, one thereof to be appointed by the Lesser, one to be appointed by the Lessee and the third to be appointed by the two so appointed, and the award of the three persons shall be final and conclusive. Each party shall pay any and all cost of the appraiser they have appointed and shall share the cost of the third appraiser.
- 8. If LESSORS own the surface, where the well is located, Lessee shall allow the Lessor, at Lessor's sole tisk and cost of the unit appraise.

 a pipeline to any one gas well on the premises, and take gas produced from said well for domestic of the calcaptements, at Lessor's own risk, subject to the use and the right of abandonment of the well by the Lessee. The first three hundred thousand (300,000) cubic feet of gas shall be taken free of cost, but all gas in excess of three hundred thousand (300,000) rubic feet of gas taken in each year shall be paid for at 90% of the last published rates of the gas utility in the town or area nearest to the leased premises or the field market rate, whichever is higher. Lessor shall lay and maintain the said pipeline and furnish regulators and other necessary equipment at Lessor's expense. Lessor shall maintain the said pipeline regulators and equipment in good repair and free of all leaks and operate the same so as not to cause waste or unnecessary to the regulators and equipment take excess gas as aforesaid in any year and fail to pay for the same, the Lessee may deduct payment for such excess gas from any rentals or royalties accruing the Lessor hereunder. Lessor agrees to hold Lessee and the well operator and all parties in

interest in any well on the leasehold premises harmless from any claims of any nature whatsoever which may arise from the usage of gas from any such well by the Lessor his heirs, executors, administrators and assigns.

8a. IF-LESSORS do not own any part of the surface, Lessee may, at their option and free of any charge from Lessors, allow the parties owning said surface to use said 150,000 cubic feet of gas per annum for domestic use in one dwelling house on said land. Said gas shall be taken and used wholly at user's own risk free of charge in safe and proper pipes and appliances, and said domestic gas user shall furnish and install, at their expense, the necessary regulating equipment and pipeline for the safe use of same. Lessee shall provide a connection for said pipeline at a producing gas well on said premises, or, at Lessee's option, at a point on Lessee's pipeline leading from said well. All gas used in excess of the above stated amount in any one calendar year shall be paid for by the user of same at a fair domestic rate. All gas so taken and used shall be subject to the use, operation and right of abandonment of the well and pipeline by Lessee, and Lessee shall not be held liable for any accident or damage caused by the use of such gas, nor shall Lessee be liable for any shortage or failure in the supply of gas for said domestic use. If, in Lessee's opinion, this right is being abused in any way, then Lessee has the right to discontinue said privilege by disconnecting the free gas pipeline from said well or from pipeline leading therefrom.

- 9. If during the primary term hereof, a well is drilled and is a dry hole and is plugged according to law, the Lessee may continue the primary term in effect by either commencing operations for the drilling of a subsequent well, or by resuming payment of said delay rentals, before the expiration of ninety (90) days from the said plugging date. In the event a well is commenced during the primary term hereof, but is a dry hole and is plugged following the expiration of the primary term, then the primary term shall be extended for ninety (90) days from said plugging date.
- 10. Lessee shall upon the completion of the first productive well upon said premises, or upon lands pooled therewith, make a diligent effort to obtain a pipeline connection but delay shall not be cause for cancellation of this agreement, provided that Lessee shall resume delay rental payments for quarterly periods, beginning one year from the date that the first productive well is completed until said first well is connected to a pipeline. Likewise, in the event such a well is shut-in for any reason after having produced in paying quantities, Lessee shall make shut-in royalty payments in the amount of five hundred dollars (\$500.00) per acre, per year, beginning one year from the date such well is shut-in, provided that the well has not produced during that year, and continuing until said well is returned to production. During the time the well is shut in, if gas is still present, the Lessee shall continue to receive its free gas allotment from the wellhead.
- 11. No change of ownership in the leases premises or in any interest therein hereunder, shall be binding upon the Lessee until thirty (30) days after written notice, by registered U.S. Mail, of such change and a certified copy or original instrument is presented to the Lessee demonstrating such change. The rights of either party hereunder may be assigned, in whole or in part, and the provisions hereof shall extend to their heirs, successors and assigns of the parties hereto.
- 12. The respective amounts of delay rentals, royalties and other payments are to be calculated in proportion to Lessor's interest in such rights with respect to which each such payment is made that is, in case the Lessor owns less of an interest in any such rights than the full and entire interest therein, then the payments in respect to such rights shall be paid to the Lessor in the proportion which Lessor's interest in such rights bears to the entire interest in such rights.
- 13. Lessor grants unto Lessee the right to pool into separate drilling or production unit(s), as to any one or more formation(s) all of said land with the leasehold estates contiguous to said lands held by Lessee when in Lessee's judgment it is necessary or advisable to create such pool to develop and operate efficiently such land. Any such unit may not exceed Three Hundred Twenty (320) acres.

Neither the pooling nor the provision hereof shall operate as a transfer of title of any interest in the leased premises. The commencement of a well, the conduct of other drilling operations, the completion of a well or of a dry hole, or the operation of a producing well on the pooled area, shall be considered for all purposes (except as to royalties) as if said well were located on, or such drilling operations were conducted upon, the lands covered by this lease whether or not such well is located upon, or drilling operations are conducted upon, said lands. The royalties provided for in Paragraph 5 hereof shall be tendered or paid to Lessor in the proportion that Lessor's acreage in the pooled area(s) bears to the total pooled area. The royalties and such other payments tendered or paid thereafter shall then be based on the proportionate acreage and interest in the pool. At any time the pool is not being operated as aforesaid, the declaration of pooling may be surrendered and canceled of record. Such cancellation or surrender shall not affect a surrender or cancellation of the lease.

- 14. The Lessee shall have the privilege of using sufficient oil, gas and water, except water from Lessor's wells, for operating the premises and the right at any times during or after the expiration of this lease to remove all pipe, well casing, machinery, equipment or fixtures placed on the premises. The injection of water, brine or other fluids into subsurface strata shall be made only by Lessee's operations. The Lessee shall have the right of surrender of this lease or any portion thereof by written notice to the Lessor describing the portion which it elects to surrender, or by recording the surrender or partial surrender of this lease, any of which shall be a full and legal surrender of this lease as to all of the premises or such portion thereof as the surrender shall indicate and a cancellation of all liabilities under the same and all parties hereto relating in any way to the portion or all the premises indicated on said surrender, and the delay rental hereinbefore set forth shall be reduced in proportion to the acreage surrendered.
- 15. In the event the Lessee is unable to perform any of the acts to be performed by the Lessee by reason of force majeure including but not limited to acts of God, strike, riots, and governmental restrictions including but not limited to restrictions on the use of roads, this lease shall nevertheless remain in full force and effect until the Lessee can perform said act and no event shall the lease expire for a period of ninety (90) days after the termination of any force majeure. Lessee to provide written notice to Lessor of invocation of force majeure.
- 16. Lessor hereby warrants and agrees to defend title to the said lands and interest into the leasehold estate created by this instrument. Lessor further warrants that the lands hereby leased are not subject to any valid prior oil and gas leases. Lessee may purchase or lease the rights of any party claiming any interest in said land and exercise such rights as may be obtained thereby and Lessee shall not suffer any forfeiture nor incur any liability to Lessor by reason thereof. Lessee shall have the right at any time to pay for Lessor any mortgage, taxes or other lien on said lands, in the event of default of payment by Lessor, and then be subrogated to the rights of the holder thereof. Any such payments made by Lessee for the Lessor may be deducted from any amounts of money which may become due to Lessor under this lease.
- 17. In the event Lessor considers that the Lessee has not complied with all its obligations hereunder, both express and implied, Lessor shall notify Lessee in writing setting out specifically in what respects Lessee has breached this contract. Lessee shall have thirty (30) days after receipt of said notice within to meet or commence to meet all or any part of the breaches allege 362015 the Lessor. The service of such notice shall be precedent to bringing of any action by Lessor on said lease for any cause, and no action shall be brought until the lapse of thirty (30) days after service of such notice on Lessee. Neither Expression or presumption that Lessee has failed to perform all its obligations hereunder.
- 18. It is mutually agreed that this instrument contains and expresses all of the agreements and understandings of the parties in regard to the subject matter thereof, and no covenant, agreement or obligation shall be read into this agreement or imposed upon the parties or either of them.
- 19. It is hereby understood and agreed that, if any abandoned well or wells of any kind exist vn agreet to the test, any such abandoned well or wells, together with a twenty-five foot radius around the well bore, are excepted and reserved from this lease down to its original depth. It is further expressly understood and agreed that any such abandoned well or wells shall be

and remain the sole responsibility of the original owners of said well or wells and that the Lessee shall have no duty to plug or reclaim said wells.

- 20. Any well site will be placed only at location mutually acceptable to both Lessor and Lessee, with such consent not being unreasonably withheld by either party.
- 21. Lessee shall indemnify the Lessor for all reasonable costs and expenses, including reasonable attorney fees incurred in successfully enforcing or pursuing any obligation of or claim against the Lessee.
- 22. The Lessee shall bury pipelines and utility lines to a depth of not less than thirty-six (36) inches below the surface. Lessee shall pay for all damages caused by its operations on said land.
- 23. Lessee shall use the most effective and modern materials, methods, equipment, facilities and technologies available to minimize sounds and noises resulting from and being produced by machinery and equipment that are permanent fixtures for Lessee's operations.
- 24. Said land may not be used by Lessee for underground storage of gas or oil.
- 25. Lessee shall comply, at all times, with all federal, state and local rules, regulations, guidelines, statutes, laws, ordinances and directives, which may now or hereafter be applicable including, but not limited to, hazardous or toxic materials, pollution control and environmental and conservation matters including, but not limited to: any laws and regulations governing water use, surface waters, groundwater, wetlands, waterways and watersheds associated with Leased Premises.
- 26. During the term of this Lease, Lessee shall carry and maintain the following insurance in an amount no less than specified:
- (A) Lessee shall maintain Worker's Compensation insurance as shall be required by West Virginia State law and any other similar state or federal law applicable to such employees, including employer's liability insurance for accident and occupational disease, in an amount not less than \$1,000,000.00 per each accident.
- (B) Lessee shall procure and maintain Comprehensive General Liability and Property Damage inclusive of Automobile General Liability, Contractual Liability totaling the following amounts:
- 1. Bodily Injury \$2,000,000 each occurrence

aver

- 2. Property Damage \$2,000,000 each occurrence
- (C) Lessee shall furnish to Lessor prior to commencement of Lessee's operations hereunder certificates of insurance with respect to the coverages, which are specified in subparagraphs 26(A) and 26(B) and any other insurance coverage which is or will be required by West Virginia or federal law in connection with Lessee's operations conducted hereunder. Such certificates of insurance shall name Lessor as an additional named insured and provide that the coverage shall not be canceled unless thirty (30) days written notice prior to such cancellation shall be given by insurance company to Lessor. Upon written request from Lessor, Lessee shall provide Lessor with copies of the policies referenced in the certificates required herein.
- 27. Lessee hereby releases and discharges Lessor and their respective regents, members, officers, and agents from any and all actions and causes of action of every nature, or other harm, including environmental harm, sought, including but not limited to, all losses and expenses much arise out of, are incidental or result from the operations of or on behalf of Lessee on the Premises, or that may arise out of or he occasioned by Ecsec's breach of any of the terms or provisions of this Lease hereby agrees to be liable for and hold harmless Lessor and their respective regents, members, officers, employees and agents, and their successors liabilities personal injury (including death), costs losses, damages actions expenses, or other harm for which recovery of damages is sought, including attorneys' fees and other legal expenses, tincluding those related to environmental hazards other of Lessee's activities on the Premises; those arising from Lessee's use of the surface of the Premises; and those that may arise out of or operationed by Lessee's breach of any of the terms or provisions of its Lease or any other Lesses, its directors, officers, employees, agents, contractors, guests or invitees. Fach assignee of this Lease therein agrees to be liable for exonerate indemnify defend and hold harmless Lesson.
- 28. Any well drilled by Lessee or its assignees shall not exceed the limits and conditions prescribed by West Virginia Code 22C-9-1 et. Seq.
- 29. No well or subsurface formation or cavity on the premises shall be used by Lessee or its Assignees for storage of oil, methane gas, or by products thereof.
- 30. This agreement and the lease shall be governed by the laws of the State of West Virginia.

IN WITNESS WHEREOF, and intending to be legally bound, the Lessors have set their hands and seals the day and year first above written. Signed and acknowledged in the presence of:
WITNESS:

Geraldine Marker

ACKNOWLEDGEMENT

STATE OF ASA ACKNOWLEDGEMENT

STATE OF ASA ACKNOWLEDGEMENT

STATE OF ASA ACKNOWLEDGEMENT

COUNTY OF ASA ACKNOWLEDGEMENT

To-wit:

I, ASA Notary Public of said County, do hereby certify that

whose name(s) are signed to the within writing have this day acknowledged the same before me in my said county.

Given under my hand this Ago Office of Oil and Gas

My Commission expires: Mark (20)

My Commission expires: Mark (20)

My Commission expires: Mark (20)

KEVIN DEAT

Charleston, V. My Commission Explic WV Department of Environmental Protection

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Well No.	Harmon #1
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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.

Certified Laboratory Name Sampling Contractor		ALS Environmental Lab	
Well Operator	Reserve Oil & G	eas, Inc.	
Address	929 Charleston Road		
	Spencer, WV 25	5276	
Telephone	304-927-5228		

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.

No Known water well within 201100 of contand Gas
Only water sources are Davis Crecket 27 2015

WV Department of Environmental Protection

WW-2A 1). Date: (Rev. 6-14) 2.) Operator's Well Number Harmon #1 State County Permit 47-3.) API Well No .: STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT 4) Surface Owner(s) to be served: 5) (a) Coal Operator WALVER (a) Name Name Garcie Marker Address Address 420 Champion Drive South Charleston, WV 25309 (b) Name (b) Coal Owner(s) with Declaration Address Name Address Name (c) Name Address Address 6) Inspector Terry Urban (c) Coal Lessee with Declaration Address P.O. Box 1207 Name Address Clendenin, WV 25045 Telephone 304-549-5915 TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas RECEIVED OR Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2) Gas I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and S application, a location plat, and accompanying documents pages 1 through ___ on the above named parties by 2015 x Personal Service (Affidavit attached) Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and iconditions of appropriate. issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Well Operator Reserve Oil & Gas, Inc. Bv: Its: Vice Rresident STATE OF WEST VIRGINIA NOTARY PUBLIC Address: 929 Charleston Road David N. Brannon Spencer, WV 25276 My Commission Expires December 10, 2017 Telephone: 304-927-5228 Email: ddouglass@reserveoilandgas.com Subscribed and sworn before me this day of June Notary Public My Commission Expires 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 1/13/2015 depprivacyofficer@wv.gov

SURFACE OWNER WAIVER

County	Kanawha	Operator	Reserve Oil & Gas, Inc.	
- 1200 (120) (1200 (1200 (1200 (1200 (1200 (1200 (1200 (1200 (1200 (120) (1200 (1200 (120) (1200 (1200 (1200 (1200 (1200 (120) (1200 (1200 (1200 (120) (1200 (1200 (120) (1200 (1200 (120) (120) (120) (120) (120) (1200 (120) (120) (120) (120) (1200 (120) (120		Operator well number	Harmon #1	
			***************************************	N

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

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

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

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

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

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

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

- The proposed well work will constitute a hazard to the safety of persons.
- The soil erosion and sediment control plan is not adequate or effective;

RECEIVED

3) Damage would occur to publicly owned lands or resources;

The proposed well work fails to protect fresh water sources or supplies; 4)

Office of Oil and Gas

The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the world in the rules."

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

List of Water Testing Laboratories. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a protection VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface with the contact that I have read the contact the contact that I have read the contact that I have read the contact the contact that I have read the contact that I have read the contact the co

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

I further state that I have no objection to the planned work described in these materials, and I have no objection to

FOR EXECUTION BY A NATURAL PERSON	FOI	R EXECUTION BY A CO	RPORATION, ETC.
Larcie R. Marker Date Signature Jeruldere Marker	Company Name By Its		Date
Print Name		Signature	Date

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Kanawha		Harmon #1
Operator Reserve Oil & Gas, Inc.	Operator's Well Num	_{ber} Harmon #1
INSTRUCTIONS TO CO	OAL OPERATOR, OW	NER, OR LESSEE
To the coal operator, owner, or less any objection you wish to make or are required that the Chief of the Office of Oil and Gas by the Office. Mail objections to:	uired to make by WV	
Chief, Office of Oil and Gas Department of Environmental Protection 601 57 th St. SE Charleston, WV 25304 (304) 926-0499 extension 1654		
	WAIVER	
location has examined this proposed well location, the well location has been added work proposed to be done at this location, requirements of the West Virginia Code and the state of the West Virginia Code and Virginia	location. If a mine ma I to the mine map. The provided, the well ope	e undersigned has no objection to the erator has complied with all applicable
FOR EXECUTION BY A NATURAL PERSON	FOR	EXECUTION BY A CORPORATION, ETC.
Date	Company Name	
Signature	By Its	Date
	-	PECEIVED Signature Office of Oil and Gas Date
		OCT 2 7 2015
No Known	owner, opera	WV Department of for Environmental Protection
of Wor	Kable Coalbed/s	eam on this tract.

WW-9 (2/15)

API Number 47	ber -

Operator's Well No. Harmon #1

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Reserve Oil & Gas, Inc.	OP Code
Watershed (HUC 10) Davis Creek	Quadrangle Charleston West
Do you anticipate using more than 5,000 bbls of water to complete the	he proposed well work? Yes No V
Will a pit be used? Yes No	he proposed well work? Yes No V
If so, please describe anticipated pit waste: brine water, of	
Will a synthetic liner be used in the pit? Yes No	If so, what ml.? 20
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
	nber)
Reuse (at API Number Off Site Disposal (Supply form WW-9 for	or disposal location)
Will closed loop system be used? If so, describe: N/A	
Drilling medium anticipated for this well (vertical and horizontal)?	
-If oil based, what type? Synthetic, petroleum, etc	
Additives to be used in drilling medium? Gilsonite, Mil-Flake, Airfoam I	HD
Drill cuttings disposal method? Leave in pit, landfill, removed offsi	te, etcLeave in pit
-If left in pit and plan to solidify what medium will be used	? (cement, lime, sawdust) Soil/Dirt
-Landfill or offsite name/permit number?	
Permittee shall provide written notice to the Office of Oil and Gas of West Virginia solid waste facility. The notice shall be provided with where it was properly disposed.	f any load of drill cuttings or associated waste rejected at any in 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West Virgini provisions of the permit are enforceable by law. Violations of any law or regulation can lead to enforcement action. I certify under penalty of law that I have personally exa application form and all attachments thereto and that, based on obtaining the information, I believe that the information is true, penalties for submitting false information, including the possibility of Company Official Signature Company Official (Typed Name) J. Scott Freshwater	term or condition of the general permit and/or other applicable mined and am familiar with the information submitted on this my inquiry of those individuals immediately responsible for accurate, and complete. I am aware that there are significant
Company Official Title Vice President	
.,,	WV Department of
Subscribed and sworn before me this/8 the day of	Environmental Protection
Havrd M. / Svannen	Notary Public STATE OF WEST VIRGINIA
My commission expires Allember 10, 2017	NOTARY PUBLIC David N. Brannon HC 75 Box 410

Reserve Oil & Gas, I	nc	Opera	tor's Well No. Harmon #1	
Proposed Revegetation Treatment: Acres Disturbed 2			tion pH 5.5	
	Tons/acre or to correct to pI	I 6.5		
Fertilizer amount 0.2		os/acre		
Mulch Hay	2 _{Tons}			
Mulcii	10110/			
	See	d Mixtures		
Ten	porary	Permanent		
Seed Type	lbs/acre	Seed Type	lbs/acre	
Orchard Grass	25	Ladino Clover	5	
Red Top Clover	15	KY 31	40	
Photocopied section of involvents:	unje tlike			
AT	David Saul	Modre		
		Of	RECEIVED	
		9,0	OCT 2 7 2015	
Title: Freld Thspe Field Reviewed? (the Ole Cess	Date: 6-18-15V Env	VV Department of ironmental Protection	

NOTE:

Any Trees 6" or larger in Diameter will be cut and piled. Brush will be used as Sediment Barriers.

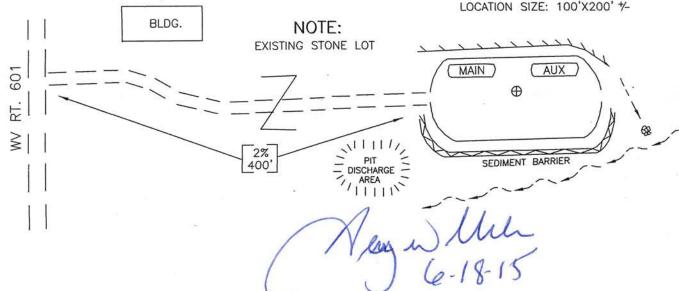
Tempory seed and mulch all slopes upon construction.

Stone over all Culverts and entrance off existing roadway.

HARMON #1

NOTE:

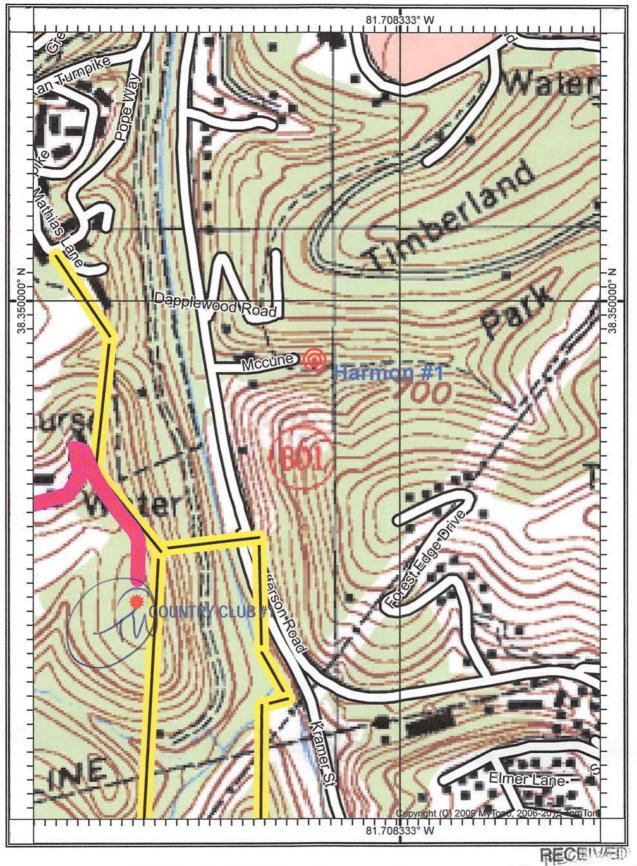
PIT SIZE: 25'X80' \(\frac{7}{2}\)
LOCATION SIZE: 100'X200' \(\frac{7}{2}\)



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Office of Oil and Gas

OCT 2 7 2015

WV Department of Environmental Protection



SCALE 1:6000

1000
FEET

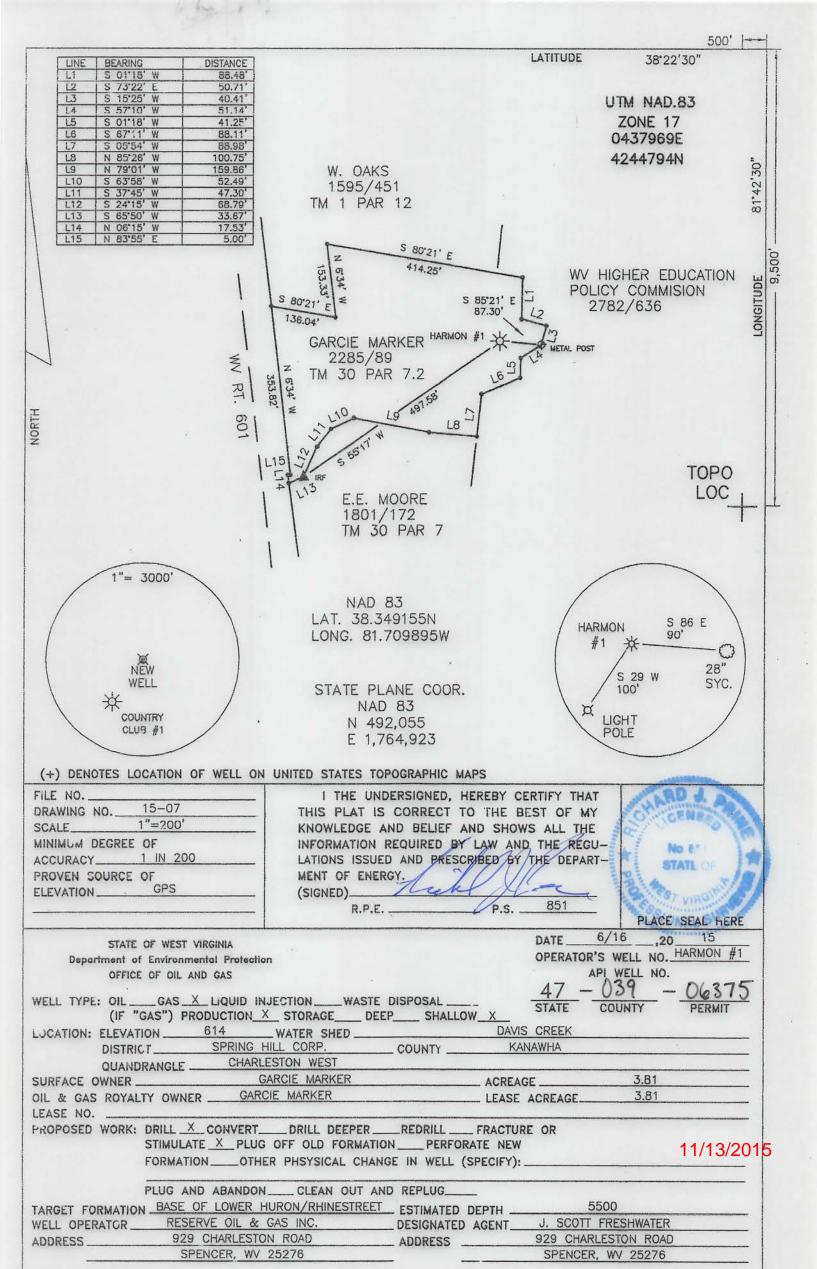
Office of Oil and igas

060 2277 J350

ANDAMA .

11/13/2015

42



Operator: RE	SERVE OIL & GA	API: 39063/5	
WELL No:	HARMON 1		
Reviewed by	: The	Date:	11/03/2015
15 Day End of Comment:		1/11/15 -WAIVER	

CHECKLIST FOR FILING A PERMIT

	Vertical Well	CK # 1006
N	WW-2B	CK # 1006 \$ 65000
1	Inspector signature on WW-2B	
1	WW-2A (Notarized)	
V	Certified Mail Receipts, Waivers, or Affidavits of Personal Service	
4	Surface Owner Waiver	
	Coal Owner / Lessee /Operator Waiver	
1	WW-2A-1 (Signed) Showing Book/Page Number and Royalty Percentage	
V	WW-2B-1 (Names, addresses, and spot on topographical map listed as water	testing)
1	WW-9 (Page 1 & 2) (Notarized)	
No	More than 5,000 bbls	
1	Inspector Signature on WW-9	
0	Reclamation plan	
1	Topographic Map of location of well	
1	Mylar Plat (Signed and Sealed) (Surface owner on plat matches WW-2A)	
-	Bond	
/	Company is Registered with the SOS	
1	Worker's Compensation / Unemployment Insurance account is OK	
11	\$650.00 check (\$550.00 if no pit)	
1	Mine Data	
	Addendum	
	Flow Distance to Nearest Intake	
	Horizontal Rule Series 8 Effective August 30, 2011-Well Sites Greater Than	3 Acres
	Erosion and Sediment Control Plan	
	Site Construction Plan	
	Well Site Safety Plan	
	Water Management Plan (Plan to withdraw 210,000 gallons or more during	any one month period)
	Within a Municipality	
	Class I Legal Advertisement in Newspaper for first permit on well pad	
	Professional Engineer/Company has COA	

