



1) Date: April 6, 19 83
 2) Operator's Well No. Grow #44
 3) API Well No. 47 085 6397
 State 47 County 085 Permit 6397

DRILLING CONTRACTOR:

Clint Hurt
Edens Fork, WV

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 791.65 Watershed: Hughes River
 District: Grant County: Ritchie Quadrangle: Petroleum 7.5
- 6) WELL OPERATOR Wayman W. Buchanan 11) DESIGNATED AGENT Leroy Hopkins]
 Address 444 Petroleum Commerce Bldg. Address P. O. Box 106
San Antonio, Texas 78205 Kenna, WV 25248
- 7) OIL & GAS ROYALTY OWNER George C. Grow, Jr. 12) COAL OPERATOR None
 Address 626 Shadowlawn Drive Address _____
Westfield, NJ 07090
- 8) SURFACE OWNER Kenneth E. Hoover 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address Rtl, Box 77A Name _____
Petroleum, WV 26161 Address _____
 Acreage 13.20 Name _____
 Address _____
- 9) FIELD SALE (IF MADE) TO:
 Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Samuel N. Hersman
 Address P. O. Box 66
Smithville, WV 26178
- 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name _____
 Address _____
- 15) PROPOSED WORK: Drill / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 16) GEOLOGICAL TARGET FORMATION, Devonian Shale
- 17) Estimated depth of completed well, 5100 feet
- 18) Approximate water strata depths: Fresh, 150 feet; salt, 1165 feet.
- 19) Approximate coal seam depths: None Is coal being mined in the area? Yes _____ / No

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20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	9 5/8			X			350	Circ.	Kinds <u>NEAT</u>
Fresh water									Sizes
Coal				X			1365	Circ.	
Intermediate	7			X			5100	350 sbs.	Depths set <u>OR AS REQ. by Rule 15-01</u>
Production	4 1/2								Perforations:
Tubing									Top Bottom
Liners									

21) EXTRACTION RIGHTS

Check and provide one of the following:

- Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)

24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: _____
 My Commission Expires _____

Signed: Leroy Hopkins
 Its: Designated Agent

OFFICE USE ONLY

DRILLING PERMIT

Permit number 47-085-6397

Date April 20 1983
04/26/2024

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires December 20, 1983

unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <u>lp</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>2132</u>
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Fred Burchell
 Administrator, Office of Oil and Gas

TE: Keep one copy of this permit posted at the drilling location.

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
- 24) **The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.**

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this **04/26/2024** examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19____

By _____

Its _____

NOTE: Keep one copy of this permit record at the drilling location



DATE Nov. 29, 1982

WELL NO. Grow No. 44

State of West Virginia
Department of Mines
Oil and Gas Division

API NO. 47-085-6397

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Wayman Buchanan
Address San Antonio, Texas
Telephone 512-223-3897

DESIGNATED AGENT Jim P. Morris
Address Charleston, WV
Telephone 345-6631

LANDOWNER K. HOOVER
Revegetation to be carried out by Unknown Contractor

SOIL CONS. DISTRICT Little Kanawha
(Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan:

11-29-82
(Date)

Jarrett Newton
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Drainage Ditch (A)
Spacing _____
Page Ref. Manual 2:12

Structure Diversion Ditch (1)
Material Earthen
Page Ref. Manual 2:12

Structure Culvert (B)
Spacing 12" Min-30" Max I. D.
Page Ref. Manual 2:7 & 2:8

Structure _____ (2)
Material Straw
Page Ref. Manual _____

Structure CROSS DRAINS (C)
Spacing 135' - 400'
Page Ref. Manual 2:1 & 2:4

Structure _____ (3)
Material _____
Page Ref. Manual _____

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All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Treatment Area I

Treatment Area II

Lime 3 Tons/acre
or correct to pH 6-5
Fertilizer 1,000 lbs 10-10-10 lbs/acre
(10-20-20 or equivalent)
Mulch Hay 2 Tons/acre
Seed* Orchard Grass 40 lbs/acre
Alsike Clover 4 lbs/acre
Rye Grain 4 lbs/acre

Lime 3 Tons/acre
or correct to pH 6-5
Fertilizer 1,000 lbs 10-10-10 lbs/acre
(10-20-20 or equivalent)
Mulch Hay 2 Tons/acre
Seed* Orchard Grass 40 lbs/acre
Alsike Clover 4 lbs/acre
Rye Grain 4 lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

04/26/2024

PLAN PREPARED BY Olin Shockey

ADDRESS Rt. 1, Box 139-B


Ravenswood, WV 26164
304-273-2246


PHONE NO. _____

NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE PETROLEUM (7.5')

LEGEND

Well Site 


Access Road 





Sketch drilling part of


i, roads to be constructed, wellsite, altered to correspond with the first


(GIRTA) 474 17'30" 475


Property boundary 


Road 


Existing fence 


Planned fence 


Stream 


Open ditch 


Diversion 

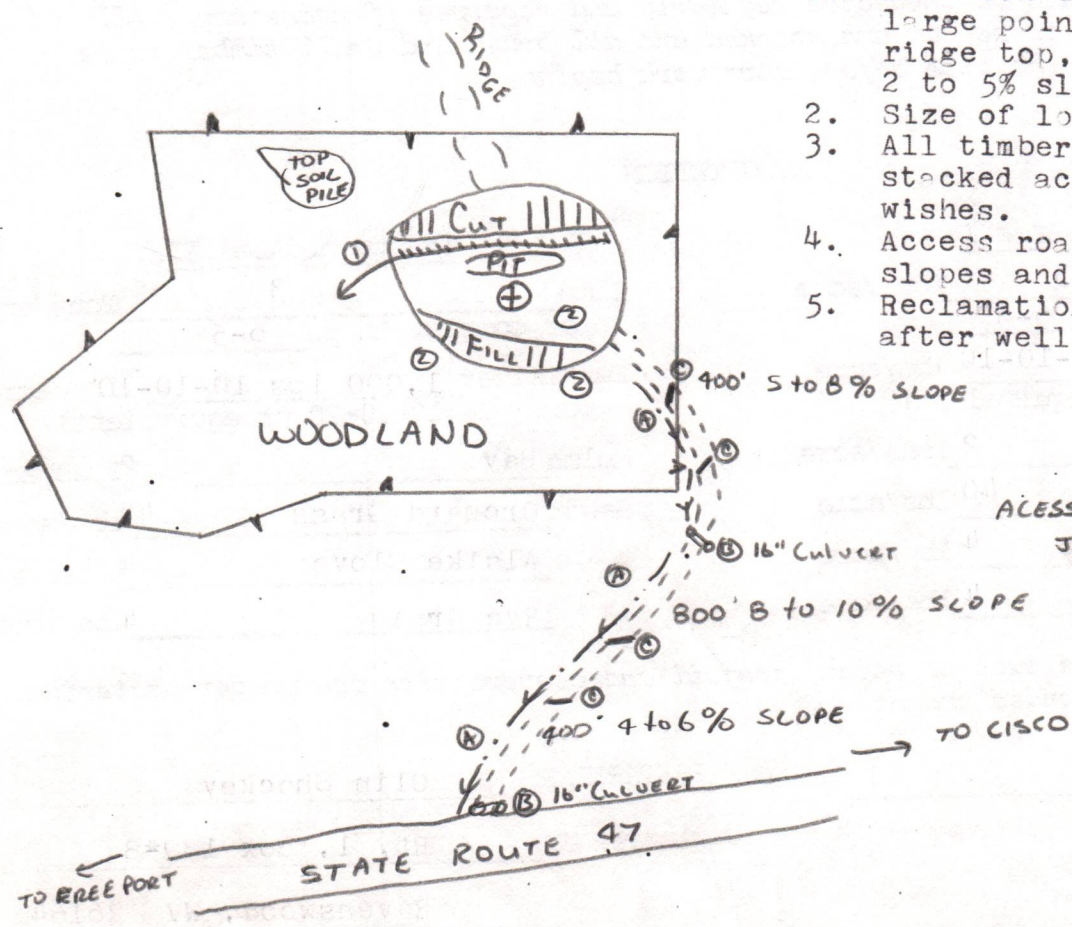
Spring 

Wet spot 

Building 

Drain pipe 

Waterway 



1. Location is on the end of a large point off of the main ridge top, now in timber, 2 to 5% slope.
2. Size of location 125 X 175'.
3. All timber will be cut and stacked according to land owners wishes.
4. Access road will have side slopes and cross drains.
5. Reclamation will be done 6 mos. after well is completed.

04/26/2024

8. If prior to discovery and production of oil or gas on the leased premises or on acreage pooled therewith, Lessee should drill a dry hole or if after discovery and production of oil or gas the production thereof should cease from any cause, this lease shall not terminate if Lessee commences operations for drilling, deepening, plugging back, or reworking within ninety (90) days thereafter or if it be within the primary term, commences or resumes the payment or tender of delay rentals or commences operation for drilling, deepening, plugging back, or reworking on or before the delay rental paying date next ensuing after the expiration of ninety (90) days from date of completion of dry hole or cessation of production. If at any time subsequent to ninety (90) days prior to the beginning of the last year of the primary term and prior to the discovery and production of oil or gas on the leased premises or on acreage pooled therewith, Lessee should drill a dry hole thereon, no delay rental payment or operations are necessary in order to keep the lease in force during the remainder of the primary term. If at the expiration of the primary term, oil or gas is not being produced on the leased premises or on acreage pooled therewith, but Lessee is then engaged in drilling, deepening, plugging back, or reworking operations thereon or shall have completed a dry hole thereon within ninety (90) days prior to the end of the primary term, the lease shall remain in force so long as operations on said well or for drilling, deepening, plugging back, or reworking of any additional well are prosecuted with no cessation of more than ninety (90) consecutive days and, if they result in the production of oil or gas, so long thereafter as oil or gas is produced from the leased premises, or on acreage pooled therewith.

9. Lessee, at any time, and from time to time, may surrender this lease as to all or any part or parts of leased premises by tendering an appropriate instrument of surrender to the Lessor or file for record a release or releases of this lease as to any part or all of said land or of any mineral or horizon thereunder, and thereupon this lease, and the rights and obligations of the parties hereunder, shall terminate as to the part or parts so surrendered. Upon each surrender as to any part or parts of leased premises the rental and all other payments specified above shall be proportionately reduced on an acreage basis and Lessee shall have reasonable easements for then existing pipelines or roadways on the lands surrendered for the purpose of continuing operations on the lands retained. Lessee shall have the right at any time during or after the expiration of this lease to remove all machinery, pipelines, fixtures, buildings, or other structures placed on said premises, including the right to pull and remove all casing.

10. Without impairment of Lessee's rights under the warranty in event of failure of title, it is agreed that if Lessor owns an interest in the oil or gas on, in or under any part of the leased premises less than the entire fee simple estate (whether Lessor's interest is herein specified or not and whether or not this lease purports to cover a whole or a fractional interest), then the royalties and delay rentals to be paid Lessor shall be reduced in the proportion that his interest bears to the whole and undivided fee and in accordance with the nature of the estate of which Lessor is seized. Said Lessee shall not be required in any event to increase the delay rental or the gas or oil royalty payments hereunder by reason of any royalty or interest in said oil or gas that may have been heretofore sold, reserved or conveyed by said Lessor or by his predecessors in title or otherwise and if the Lessor does not have title to all the oil and gas in the leased premises, there shall be refunded such part of all payments made by the Lessee hereunder as shall be proportionate to the outstanding title, and all payments and royalties thereafter to be made shall be reduced in the same proportion.

11. In case of notice of, or an adverse claim to the premises, affecting all or any part of the delay rentals or royalties, Lessee may withhold payment or delivery of the same until their ownership is determined by compromise, or by final decree of a court of competent jurisdiction, and to this end Lessee may file a petition for interpleader.

12. The rights of either party hereunder may be assigned in whole or in part; but no change or division in ownership of the leased premises, delay rentals or royalties or in the status of any party, however accomplished, shall operate to enlarge the obligations or diminish the rights of Lessee. No change in such ownership or status shall be binding on Lessee until thirty (30) days after Lessee shall have been furnished by U.S. Mail at Lessee's principal place of business with a certified copy of recorded instrument or instruments evidencing same. In the event of assignment hereof in whole or in part, liability for breach of any obligation hereunder shall rest exclusively upon the owner of this lease or of a portion thereof who commits such breach. In the event of the death of any person entitled to any sum hereunder, Lessee may pay or tender the same to the credit of the deceased or the estate of the deceased until such time as Lessee is furnished with proper evidence of the appointment and qualification of an executor or administrator of the estate or if there be none, evidence satisfactory to it as to the heirs or devisees of the deceased and that all debts of the estate have been paid. If at any time two or more parties are entitled to or adversely claim any sum payable hereunder, or any part thereof, Lessee may pay or tender the same either jointly to such parties or separately or to each in accordance with his respective ownership thereof. In event of assignment of this lease as to a segregated portion of the leased premises, the delay rentals and shut-in royalties payable hereunder shall be apportionable as between the several leasehold owners ratably according to the surface area of each, and the failure to pay delay rentals or shut-in royalties on the one segregated portion of the leased premises shall not affect the rights hereunder of the party holding the other segregated portion hereunder. If six or more parties become entitled to royalty hereunder, Lessee may withhold payment thereof unless and until furnished with a recordable instrument executed by all such parties designating an agent to receive payment for all.

13. The breach by Lessee of any obligation arising hereunder shall not work a forfeiture or termination of this lease nor cause a termination or reversion of the estate hereby nor be grounds for cancellation hereof in whole or in part. In the event Lessor considers that operations are not at any time being conducted in compliance with this Lease, Lessor shall notify Lessee in writing of the facts relied upon as constituting a breach hereof and Lessee, if in default, shall have 60 days after receipt of such notice in which to commence the compliance with the obligations imposed by virtue of this instrument.

14. Lessor shall be entitled, at his sole risk and expense, to 200,000 cubic feet of gas per annum free of cost for use in one domestic dwelling from one producing gas well on said premises, providing that said well has sufficient pressure for such use. Lessor agrees to pay Lessee a fair domestic rate for any gas used in excess thereof. Lessee shall not be held liable for any accident or damage caused by Lessor's said use of gas, nor shall Lessee be liable for any shortage or failure in supply of gas for said domestic use.

15. Lessor hereby expressly relinquishes dower and releases and waives all rights under and by virtue of the homestead exemption laws of the state wherein premises are situated insofar as the same in any way may affect the purpose for which this lease is made.

16. Should any one or more of the parties named herein as Lessor fail to execute this lease, it shall nevertheless be binding on the party or parties executing the same and additional parties may execute this lease as Lessor, and this lease shall be binding on each party executing the same notwithstanding that such party is not named herein as Lessor; and all of the provisions of this lease shall inure to the benefit of and be binding on the parties hereto and their respective heirs, legal representatives, successors and assigns, and successive successors and assigns.

17. Lessee's obligations under this lease, whether express or implied, shall be subject to all applicable laws, rules, regulations and orders of any governmental authority having jurisdiction, including restrictions on the drilling and production of wells and the price of oil, gas and other substances covered hereby. When drilling, reworking, production or other operations are prevented or delayed by such laws, rules, regulations or orders, or by inability to obtain equipment, services, material, water, electricity, fuel, access or easements, or by fire, flood, war, rebellion, insurrection, riot, strike or labor disputes, or by inability to obtain a satisfactory market for production or failure of purchasers or carriers to take or transport such production, or by other cause not reasonably within Lessee's control, this lease shall not terminate because of such prevention or delay, and, at Lessee's option, the period of such prevention or delay shall be added to the term hereof.

18 through 24, inclusive - See Attachment "A"

IN WITNESS WHEREOF, this instrument is executed on the date first above written.
WITNESS: Barbara H. Catanzaro George C. Grow, Jr.
GEORGE C. GROW, JR.

This Document Prepared by: Fred D. Clark
CLARK & THOMPSON, L.C.
Suite 612, Peoples Bldg.
Charleston, WV 25301
BY George C. Grow, Jr.
ACKNOWLEDGMENT Its President

COUNTY OF UNION STATE OF NEW JERSEY
I, BARBARA H. CATANZARO In and for said
County, in the State aforesaid, do hereby certify that GEORGE C. GROW, JR.

personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person, and acknowledge that he signed, sealed and delivered the said instrument as his free and voluntary act, for the uses and purposes therein set forth, and desired the same to be recorded as such.
Given under my hand and Seal, this 21ST day of SEPTEMBER A.D. 19 82
My commission expires MARCH 7 1986

BARBARA H. CATANZARO Barbara H. Catanzaro (Seal)
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Mar. 7, 1986
ACKNOWLEDGMENT 04/26/2024

COUNTY OF UNION STATE OF NEW JERSEY
I, BARBARA H. CATANZARO In and for said
County, in the State aforesaid, do hereby certify that GEORGE C. GROW, JR., PRESIDENT OF GEORGE C. GROW, INC
A NEW JERSEY CORPORATION

personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person, and acknowledge that he signed, sealed and delivered the said instrument as his free and voluntary act, for the uses and purposes therein set forth, and desired the same to be recorded as such.
Given under my hand and Seal, this 21ST day of SEPTEMBER A.D. 19 82
My commission expires MARCH 7 1986
BARBARA H. CATANZARO Barbara H. Catanzaro
NOTARY PUBLIC OF NEW JERSEY

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ATTACHMENT "A"

OIL & GAS DIVISION
DEPT. OF MINES

18. LESSOR hereby excepts and reserves all formations from the surface of the herein leased premises to the top of the Big Lime formation.

19. In addition to the one-eighth (1/8) royalty interest reserved by LESSOR in paragraph 5, herein, LESSOR reserves an additional one-thirty second (1/32) royalty interest, so that wherever in paragraph 5, herein, the term "one-eighth, (1/8)" appears, it shall be read as "five-thirty seconds, (5/32)".

20. In addition to the royalty interests specified herein, LESSOR shall receive a One-Sixteenth (1/16th) working interest in any well drilled under the terms of this agreement after LESSEE has recouped all drilling and production costs applicable to such well, together with the recoupment by LESSEE of any and all bonus payments paid to LESSOR and all associated acreage costs paid by LESSEE for the total acreage specified herein. Working interest shall be defined as Eighty per cent (80%) of the gross proceeds from any well less One Hundred per cent (100%) of all costs incurred in the drilling and production of said well. The working interest herein provided to LESSOR shall be a net profits interest and LESSOR shall not be required to prepay any costs incurred by said working interest. It is agreed that drilling costs for each well shall be considered recouped when all monies spent for the drilling of such well have been recovered by LESSEE or when LESSEE has recovered Three Hundred Ten Thousand Dollars (\$310,000.00) per well, whichever amount is less. In addition, bonus payments and all associated acreage costs shall be recouped at the rate of Thirty-Six Thousand Five Hundred Dollars (\$36,500.00) per well until all such costs are recouped, making the total maximum recoupable cost per well prior to LESSOR receiving the aforesaid working interest Three Hundred Forty-Six Thousand Five Hundred Dollars (\$346,500.00). It is.

04/26/2024

1 George C. Grow, Jr.
GEORGE C. GROW, JR.

expressly understood and agreed that recoupable costs herein defined shall not be recouped from or otherwise affect the prompt and timely payment of any and all royalties herein reserved to LESSOR.

21. Each well drilled by LESSEE on the subject acreage will hold One Hundred and Twelve (112) acres thereof by production within the meaning of Paragraph 3, herein, and the location of such acreage around each well shall be determined by the LESSEE in his sole discretion.

22. LESSEE agrees to commence drilling operations for the first well on the subject acreage within ninety (90) days after the execution hereof. The parties hereto recognize that the acreage which is the subject of this Lease is the same acreage which is the subject of an Assignment between these parties bearing even date herewith, and that the commencement of drilling operations upon any of the properties leased or assigned shall be such as to satisfy any drilling commitment as required in said Assignment or this Lease. In order to hold by production the subject acreage as set forth in paragraph 21 herein, LESSEE agrees thereafter to drill additional wells at the rate of one well per each ninety day period. It is understood and agreed that each ninety day time period shall be cumulative for each well drilled and the drilling of additional wells shall not be required until all ninety day time periods established by previously drilled wells have expired. It is further understood and agreed that the provisions of this paragraph relate only to the manner in which the subject acreage or any part thereof is to be held by production and there is no covenant by LESSEE to drill any specific number of wells nor is there any restriction on the maximum number of wells which LESSEE can drill thereon. If LESSEE does not drill the twenty wells necessary to hold the entire 04/26/2024 premises as a producing property, then LESSEE shall release all acreage which is not held as a producing property. The amount of acreage to be released will be determined by

subtracting the number of wells drilled from twenty and multiplying that number by One Hundred and Twelve (112) acres, and the location of such acreage shall be determined by the LESSEE in his sole discretion.

23. In addition to any other bonus consideration paid to LESSOR, LESSEE agrees to pay LESSOR Ten Thousand Dollars (\$10,000.00) per well as a bonus payment for the eleventh (11th) through twentieth (20th) wells drilled upon the leased premises. Said payment shall be made at the commencement of drilling operations for the eleventh (11th) through and including the twentieth (20th) well so drilled, provided however, that in the event LESSEE is not satisfied with the state of LESSOR'S title to any of the herein leased premises prior to the drilling of said wells, LESSEE may in its sole discretion reject such acreage by the tendering of a release of said acreage, and LESSEE shall receive a credit of Two Hundred Ten Dollars (\$210.00) per gross acre to be credited against payments due LESSOR for drilling the eleventh (11th) through twentieth (20th) wells as provided herein for a maximum credit of One Hundred Thousand Dollars (\$100,000.00). Any amount of the aforesaid credit shall be applied against the Ten Thousand Dollar (\$10,000.00) bonus payments on a well-by-well basis, commencing with the eleventh (11th) well, and shall not be applied on a prorata basis.

24. LESSOR agrees that all monies received by LESSOR under the terms of this Lease shall be applied by LESSOR to discharge in due course all liens of record which affect the subject acreage.

04/26/2024

5318

EXHIBIT B

BURNING SPRINGS DISTRICT, WIRT COUNTY, WEST VIRGINIA

<u>GRANTOR</u>	<u>GRANTEE</u>	<u>DESCRIPTIVE NAME</u>	<u>ACREAGE</u>	<u>DATE</u>	<u>RECORDING</u>
Louis Roberts, et al.	George C. Grow et al	Rathbone Oil Tract	1,129 by deed	11/30/1938 11/10/1937	DB 90/273 DB 89/350
Louis Roberts, et al.	George C. Grow et al	W.H.H. Wheaton Lot	5	11/30/1938 11/10/1937	DB 90/273 DB 89/350
O. E. Grow	George C. Grow	Thorn & Roberts Tract	9	7/31/1936	DB 86/467
O. E. Grow	George C. Grow	W.H.H. Wheaton Lot	8-3/4	7/31/1936	DB 86/467
Mildred Kirby, et al.	George C. Grow, Inc.	Whitcotton Tract	46-3/4	8/17/1981	DB 162/968
Elizabeth Teeter Phillips	George C. Grow, Inc.	Coplin Tract	50	1/9/1982	DB 163/418
L. E. Shuck	George C. Grow	Wetzel Tract	3	6/5/1951	DB 109/99
L. E. Shuck	George C. Grow	Gracy Tract	3 1/2	6/5/1951	DB 109/99
L. E. Shuck	George C. Grow	W.H.H. Wheaton Lot	15	6/5/1951	DB 109/99
L. E. Shuck	George C. Grow	Wetzel Tract	5	6/5/1951	DB 109/99
L. E. Shuck	George C. Grow	Wetzel Tract	5	6/5/1951	DB 109/99
Louis Roberts, et al.	George C. Grow et al	Wetzel Tract	6	11/30/1938	DB 90/273
Louis Roberts, et al.	George C. Grow et al	Rathbone Lot # 1	7-3/4	11/30/1938	DB 90/273

04/26/2024

George C. Grow, Jr.
 GEORGE C. GROW, JR.

CLAY DISTRICT, WIRT COUNTY, WEST VIRGINIA

<u>GRANTOR</u>	<u>GRANTEE</u>	<u>DESCRIPTIVE NAME</u>	<u>ACREAGE</u>	<u>DATE</u>	<u>RECORDING</u>
Val D. Bailey, et al.	George C. Grow	Bailey Tract	67	11/27/1961	DB 122/420
Roberts Oil Company	George C. Grow	California Tract	167 by Deed 253 by Survey	5/20/1929	DB 79/463
Etta Swisher	George C. Grow	Swisher Tract	99	9/23/1944	DB 98/280
John M. Nelson, et al.	George C. Grow	Mary Nelson Tract	43	7/19/1937	DB 88/486
Roberts Oil Company	George C. Grow	Rex Lease	200 by Deed 312 by Survey	5/20/1929	DB 79/463
Roberts Oil Company	George C. Grow	J. F. Dravo Tract	142½	5/20/1929	DB 79/463
GRANT DISTRICT, RITCHIE COUNTY, WEST VIRGINIA					
Roberts Oil Company	George C. Grow	Sharpnack Tract	62½	4/20/1929	DB 95/322
H. H. Haynes, et al.	George C. Grow	Deem Tract	65	12/20/1939	DB 107/186
TOTAL ACREAGE			<u>2,337.75</u>		

04/26/2024

George C. Grow, Jr.
 GEORGE C. GROW, JR.

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DEC 1 2 1983



OIL & GAS DIVISION
DEPT. OF MINES
State of West Virginia
Department of Mines
Oil and Gas Division

Date June 20, 1983
Operator's
Well No. Grow #44
Farm 12895
API No. 47-085-6397
6397

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 791.65 Watershed Hughes River
District: Grant County Ritchie Quadrangle Petroleum 7.5'

COMPANY Wayman W. Buchanan
ADDRESS 444 Petroleum Commerce Bldg. San Antonio, Texas 78205
DESIGNATED AGENT Leroy Hopkins
ADDRESS P. O. Box 106, Kenna, WV 25248
SURFACE OWNER Kenneth Hoover
ADDRESS Petroleum, WV 26161
MINERAL RIGHTS OWNER George C. Grow, Jr.
ADDRESS Westfield, NJ 07090
OIL AND GAS INSPECTOR FOR THIS WORK Samuel Hersman
ADDRESS Smithville, WV 26178

PERMIT ISSUED April 20, 1983
DRILLING COMMENCED June 14, 1983
DRILLING COMPLETED June 19, 1983

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8		329'	150 sks.
8 5/8			
7		1294'	225 sks.
5 1/2			
4 1/2		3969'	220 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 4000 feet
Depth of completed well 4000 feet Rotary X / Cable Tools ___
Water strata depth: Fresh 150 feet; Salt 1165 feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow TSTNG Mcf/d Final open flow TSTNG Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after 04/26/2024 hours shut in
(If applicable due to multiple completion--)

Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

Ritchie 6397

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

Perforated 35 holes from 3912 to 3224'.
Treated and fractured with 90 quality foam
(150 bbl sand laden fluid), 32,500# 20/40 sand, 641,000 scf N₂.

Perforated 35 holes from 3146' to 2480'.
Treated and fractured with 90 quality foam (180 bbl. sand laden
fluid), 32,500# 20/40 sand, 605,000 scf N₂.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			0	600	
Shale			600	720	
Sand			720	800	
Shale			800	840	
Sand			840	950	
Coffee (?) Shale			950	958	
Big Lime			966	1052	
Big Injun			1052	1120	
Shale			1120	1410	
Siltstone			1410	1440	
Shale			1440	1500	
Sunbury Shale			1500	1518	
Berea			1518	1522	
Siltstone			1522	1710	
Shale			1710	1740	
Sandy Siltstone			1740	2005	
Shale			2005	2808	
Shale/Siltstone			2808	3150	
Shale			3150	4000	
TD.			4000		

(Attach separate sheets as necessary)

Wayman W. Buchanan
Well Operator

04/26/2024

By: Roy S. Sites
Date: _____

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic
detailed geological record of all formations, including

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

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INSPECTOR'S WELL REPORT

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Permit No. 85-6397

Oil or Gas Well _____
(KIND)

Company <u>Wayman W. Buchanan</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Kenneth E. Kover</u>	16			Kind of Packer _____
Well No. <u>Row # 1</u>	13			
District <u>Grant</u> County <u>Ritchie</u>	10			Size of _____
Drilling commenced <u>6-14-83</u>	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water <u>Dusted</u> _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Fredrick Watring C. W. Price Overson Coon

Remarks: Clint Hurt Rig # 5 tool Pusher Rodney Baxton

Ran 339 foot of 9 5/8" casing Ran 150 sacks cement/mud

824 foot deep at time of visit

6-15-83
DATE

Samuel N. Buchanan
DISTRICT WELL INSPECTOR

04/26/2024

Form 26
2/16/82

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner	Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

_____ I hereby certify I visited the above well on this date.

DATE

DISTRICT WELL INSPECTOR

04/26/2024



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OCT 30 1984

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

COMPANY WAYMAN W. BUCHANAN
444 PETROLEUM COMMERCE BLDG
SAN ANTONIO, TX 78205

PERMIT NO 47-085-6397
FARM & WELL NO GROW #44
DIST. & COUNTY GRANT/RITCHIE

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work	_____	_____
25.04	Prepared before Drilling to Prevent Waste	_____	_____
25.03	High-Pressure Drilling	_____	_____
16.01	Required Permits at Wellsite	_____	_____
15.03	Adequate Fresh Water Casing	_____	_____
15.02	Adequate Coal Casing	_____	_____
15.01	Adequate Production Casing	_____	_____
15.04	Adequate Cement Strenght	_____	_____
15.05	Cement Type	_____	_____
23.02	Maintained Access Roads	_____X_____	_____
25.01	Necessary Equipment to Prevent Waste	_____X_____	_____
23.04	Reclaimed Drilling Pits	_____X_____	_____
23.05	No Surface or Underground Pollution	_____X_____	_____
23.07	Requirements for Production & Gathering Pipelines	_____X_____	_____
16.01	Well Records on Site	_____	_____
16.02	Well Records Filed	_____	_____
7.05	Identification Markings	_____X_____	_____

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED *Glen P. Robinson*
GLEN P. ROBINSON

DATE 23 OCTOBER 1984

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. H. ...

Administrator-Oil & Gas Division

January 3, 1985

DATE

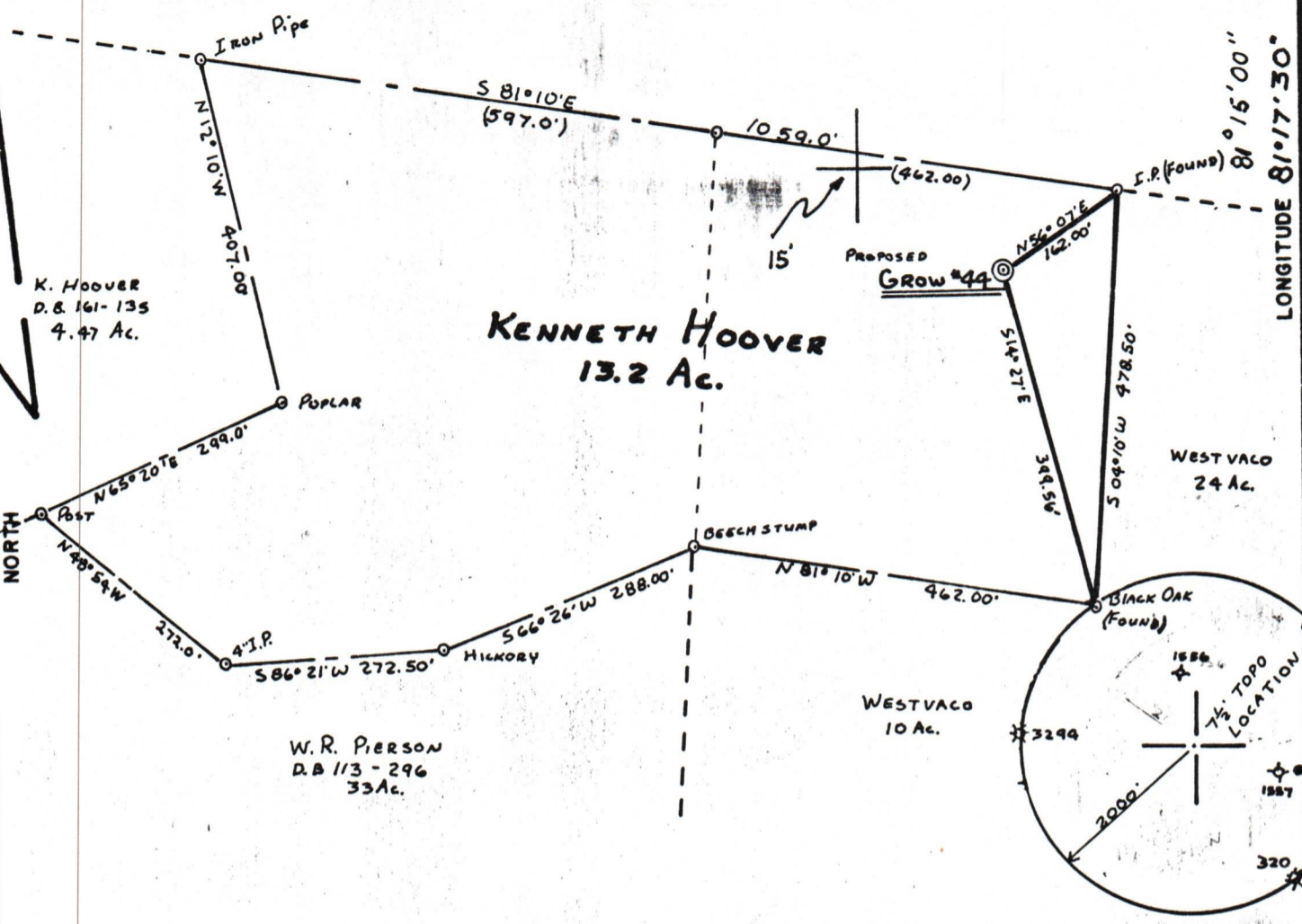
04/26/2024

4-19-82

LATITUDE 39°10'00"

1325'

DAUBENSPECK
52.5 Ac.



LONGITUDE 81°17'30"

11050'

K. HOOPER
D.B. 161-135
4.47 Ac.

KENNETH HOOPER
13.2 Ac.

W.R. PIERSON
D.B. 113-296
33 Ac.

WESTVALO
24 Ac.

WESTVALO
10 Ac.

INFORMATION TAKEN FROM A PLAT DONE
BY EDWIN COX ON JUNE 30, 1973 FOR
KENNETH E. HOOPER

FILE NO. F.B. 35
 DRAWING NO. 83014
 SCALE 1:200'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION B.M. 643 SOUTH
OF LOCATION

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) Wayman Buchanan
 S.P.E. _____ L.L.S. 434



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6
 (8-78)



Department of Mines
 Oil & Gas Division

DATE 11-15, 19 82
 OPERATOR'S WELL NO. Grow No. 44
 API WELL NO. 47-085-6397
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION _____ STORAGE _____ DEEP _____ SHA: LOW.
 LOCATION: ELEVATION 791.65' WATER SHED HUGHES RIVER
 DISTRICT GRANT COUNTY RITCHIE
 QUADRANGLE PETROLEUM (7.5')
 SURFACE OWNER KENNETH E. HOOPER ACREAGE 13.2 Ac.
 OIL & GAS ROYALTY OWNER GEORGE GROW LEASE ACREAGE 13.2 Ac.
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR
 STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW
 FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5100'
 WELL OPERATOR WAYMAN BUCHANAN DESIGNATED AGENT LEROY HOPKINS
 ADDRESS SAN ANTONIO, TEXAS ADDRESS KENNA, W.VA.

04/26/2024

RIT. 6397