



1) Date: October 18, 19 82
2) Operator's Well No. Grow #34
3) API Well No. 47 105 1005
State County Permit

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: 1009.85' Watershed: Lick Run
District: Clay County: Wirt Quadrangle: Girta (7.5')
- 6) WELL OPERATOR Wayman W. Buchanan 11) DESIGNATED AGENT Jim P. Morris
Address 444 Petroleum Commerce Bldg. Address 401 Peoples Building
San Antonio, Texas 78205 Charleston, WV 25301
- 7) OIL & GAS ROYALTY OWNER George C. Grow, Jr. 12) COAL OPERATOR None
Address 626 Shadowlawn Drive Address _____
Westfield, NJ 07090
Acreage 240.98
- 8) SURFACE OWNER Westvaco 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
Address _____
Name _____
Address _____
- 9) FIELD SALE (IF MADE) TO:
Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Deo Mace
Address Rt. 1, Box 5
Sandridge, WV 25274
- 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, Brallier Shale
- 17) Estimated depth of completed well, 3500 feet
- 18) Approximate water strata depths: Fresh, 120 feet; salt, 560 feet.
- 19) Approximate coal seam depths: None Is coal being mined in the area? Yes _____ / No

RECEIVED
OCT 18 1982
OIL & GAS DIVISION
DEPT. OF MINES

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
Fresh water										
Coal										Sizes
Intermediate	7			X			1500	Circ.		
Production	4 1/2			X			3500	350 sks.		Depths set
Tubing										
Liners										Perforations: Top Bottom

- 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: Vicky R. Burdette
My Commission Expires 12-1-90

Signed: Jim P. Morris
Its: Designated Agent

OFFICE USE ONLY
DRILLING PERMIT

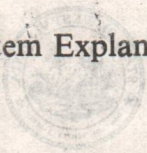
Permit number 47-105-1005 Date 10-21-82
01/12/2024

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 6-21-83 unless drilling is commenced prior to that date and prosecuted with due diligence.
Bond: Blanket Agent: Plat: M. J. 11098 Casing Fee 11098
Administrator, Office of Oil and Gas

NOTE: 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.

DRILL WAIVER

01/12/2024

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has 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 _____

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 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 the 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 an 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 constitute 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 downer and releases and waives all rights under and by virtue of the homestead exemption laws of the state wherein premises are situated in so far 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.

RECEIVED
OCT 18 1982

This Document Prepared by:
Fred D. Clark
CLARK & THOMPSON, L.C.
Suite 612, Peoples Bldg.
Charleston, WV 25301

GEORGE C. GROW, INC.,
OIL & GAS DIVISION New Jersey Corporation
DEPT. OF MINES
BY George C. Grow, Jr.
ACKNOWLEDGMENT Its President

COUNTY OF UNION STATE OF NEW JERSEY
I, BARBARA H. CATANZARO In and
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 acknowledged 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
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Mar. 7, 1986
ACKNOWLEDGMENT

Barbara H. Catanzaro

01/12/2024

COUNTY OF UNION STATE OF NEW JERSEY
I, BARBARA H. CATANZARO
County, in the State aforesaid, do hereby certify that GEORGE C. GROW, JR., PRESIDENT OF GEORGE C. GROW, 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 acknowledged 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
NOTARY PUBLIC OF NEW JERSEY

Barbara H. Catanzaro

B-1

IV-35
(Rev 8-81)



State of West Virginia
Department of Mines
Oil and Gas Division

Date Nov. 1, 1982
Operator's Well No. _____
Farm Grow # 34
API No. 047 - 105 - 1005

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: 1009.85 Watershed Lick Run
District: Clay County Wirt Quadrangle Girta 7.5'

COMPANY Wayman W. Buchanan

ADDRESS San Antonio, Texas 78205

DESIGNATED AGENT Jim P. Morris

ADDRESS Charleston, W.V. 25301

SURFACE OWNER Westvaco

ADDRESS Box 577, Rupert, W.V. 25984

MINERAL RIGHTS OWNER George C. Grow, Jr.
626 Shadowlawn Dr.

ADDRESS Westfield, N.J. 07090

OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace

ADDRESS Sandyridge, W.V. 25274

PERMIT ISSUED Oct. 21, 1982

DRILLING COMMENCED Oct. 26, 1982

DRILLING COMPLETED Oct. 31, 1982

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		363'	175 sks
8 5/8			
7		1533'	200 sks
5 1/2			
4 1/2		4770'	250 sks
3			
2			
Liners used	RECEIVED MAR 23 1983 OIL AND GAS DIVISION WV DEPARTMENT OF MINES		

GEOLOGICAL TARGET FORMATION Brailer Shale Depth 3500 feet

Depth of completed well 4762 feet Rotary X / Cable Tools _____

Water strata depth: Fresh 120 feet; Salt 560 feet

Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3586-3931 feet

Gas: Initial open flow TSTM Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 30 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 24 hours

Static rock pressure 275 psig (surface measurement) after 16 days 04/12/2024 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

(Continue on reverse side)

WIRT 1005

Wayman W. Buchanan
Well Operator

By: Gay Wright
Date: 3/15/83

01/12/2024

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
minerals, encountered in the drilling of a well."



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

WALTER N. MILLER
 DIRECTOR

THEODORE M. STREIT
 ADMINISTRATOR

August 30, 1983

Wayman W. Buchanan
 P. O. Box 106
 Kenna, W. Va. 25248

In Re: PERMIT NO: 47-105-1005
 FARM: George C. Grow, Jr./Westvaco
 WELL NO: Grow #34
 DISTRICT: Clay
 COUNTY Wirt

Gentlemen:

The FINAL INSPECTION REPORT for the above described well has been received in this office. Only the column check below applies:

- The well designated by the above permit number has been released under your Blanket Bond.
- Please return the enclosed cancelled single bond which covered the well designated by the above permit number to the surety company who executed said bond in your behalf, in order that they may give you credit on their records.
- XXXXXX Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above captioned well will remain under bond coverage for life of the well.

Very truly yours,

Theodore M. Streit, Administrator
 Office of Oil & Gas-Dept. Mines

TMS/

01/12/2024

01/12/2024

LOCATION PLAT

FOR

WAYMAN W. BUCHANAN- GROW NO. 34

AS REQUIRED BY SECTION 102 OF THE NGPA 1978



SCALE : 1"=4000'

PREPARED BY _____

01/12/2024

E-4

RECEIVED

AUG - 9 1983

Date August 5, 1983

Operator's Well No. GRW 34

All Well No. 41 - 105 - 1005

State County Permit

GAS DIVISION

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

NOTICE OF ABATEMENT

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal /
Underground

If "Gas" - Production / Storage / Deep / Shallow

LOCATION: Elevation: Watershed: Lick Run

District: Clay County: Wirt Quadrangle:

WELL OPERATOR Wayman Buchanan DESIGNATED AGENT Leroy Hopkins

Address

Address P.O. Box 106
Kenova WV 26048

Notice is hereby given that the undersigned authorized oil and gas inspector made a special inspection of the above named well on August 5, 1983.

Upon the expiration of a period of time originally fixed for abatement.

Upon the order of the Deputy Director for Oil and Gas at the request of the well operator.

Upon the request of the Deputy Director for Oil and Gas.

The violation of Code 22-4-12B heretofore found to exist on May 13 1983,
Regulation 23-03
by Form IV-27, "Notice of Violation" , Form IV-28, "Imminent Danger Order"
of that date has been totally abated. If the abated violation was found by an Imminent
Danger Order requiring operations to cease, such requirement is hereby rescinded, and
the well operator is hereby notified that he may resume operations.

COMMENTS: (USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)

A copy of this NOTICE has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

01/12/2024

Des Mace
Oil and Gas Inspector

Address Rt 1 Box 6

Sand Ridge WV 25774

Telephone 635-7398



DATE Oct. 11, 1982

WELL NO. Grow No. 34

State of West Virginia
Department of Mines
Oil and Gas Division

API NO. 47-085-1005

CONSTRUCTION AND RECLAMATION PLAN

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

DESIGNATED AGENT Jim P. Morris
Address Charleston, WV 26164
Telephone 345-6631

LANDOWNER WV Pulp and Paper
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:

10-11-82
(Date)

Jarrett Newton
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Drainage Ditch (A)
Spacing _____

Structure Diversion Ditch (1)
Material Earthen

Page Ref. Manual 2:12

Page Ref. Manual 2:12

Structure Culvert

OCT(B)8 1982

Structure _____ (2)

Spacing 12" Min-30" Mas I. D.

Material Straw

Page Ref. Manual 2:7 & 2:8

Page Ref. Manual 3:6 & 3:7

Structure Cross Drains (C)

Structure _____ (3)

Spacing 135' - 400'

Material _____

Page Ref. Manual 2:1 & 2:4

Page Ref. Manual _____

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

Lime 3 Tons/acre
or correct to pH 6-5

Fertilizer 600 lbs/acre
(10-20-20 or equivalent)

Fertilizer 600 lbs/acre
(10-20-20 or equivalent)

Mulch Hay 2 Tons/acre

Mulch Hay 2 Tons/acre

Seed* Kentucky 31 Fescue 45 lbs/acre

Seed* Kentucky 31 Fescue 45 lbs/acre

Crown Vetch 10 lbs/acre

Ladino Clover 5 lbs/acre

lbs/acre

01/12/2024

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

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.

Date: MAY 13 1983
 Well No: 47-105-1002
 ARI NO: 47-105-1002
 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES

Oil and Gas Division
 NOTICE OF VIOLATION

WELL TYPE: Oil Gas
 Of Gas - Production
 LOCATION: Elevation: LICK RUN
 District: CLAY
 County: CLAY
 Designated Agent: JIM HARRIS
 Address: 401 PROGRESS BLVD. CHARLESTON W. VA. 25301

The above well is being posted this 13 day of MAY, 1983, for a violation of Code 22-A-12 and/or Regulation 23.03, set forth in detail as follows:

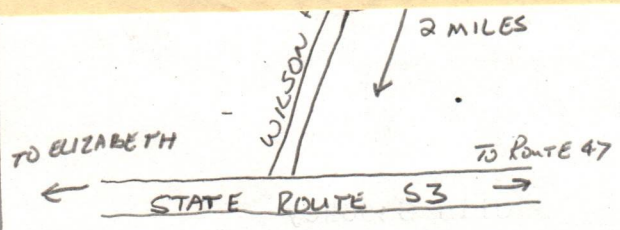
(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)

RECLAMATION WORK COMPLETE AFTER SIX MONTHS
 FOLLOWING COMPLETION OF WELL.
 PIT NEEDS FILLED & LOCATION TRACED & SECTORED

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent. You are hereby granted until MAY 30, 1983, to abate this violation. Failure to abate the violation may result in action by the Department under Code 22-A-17 or Code 22-A-18.

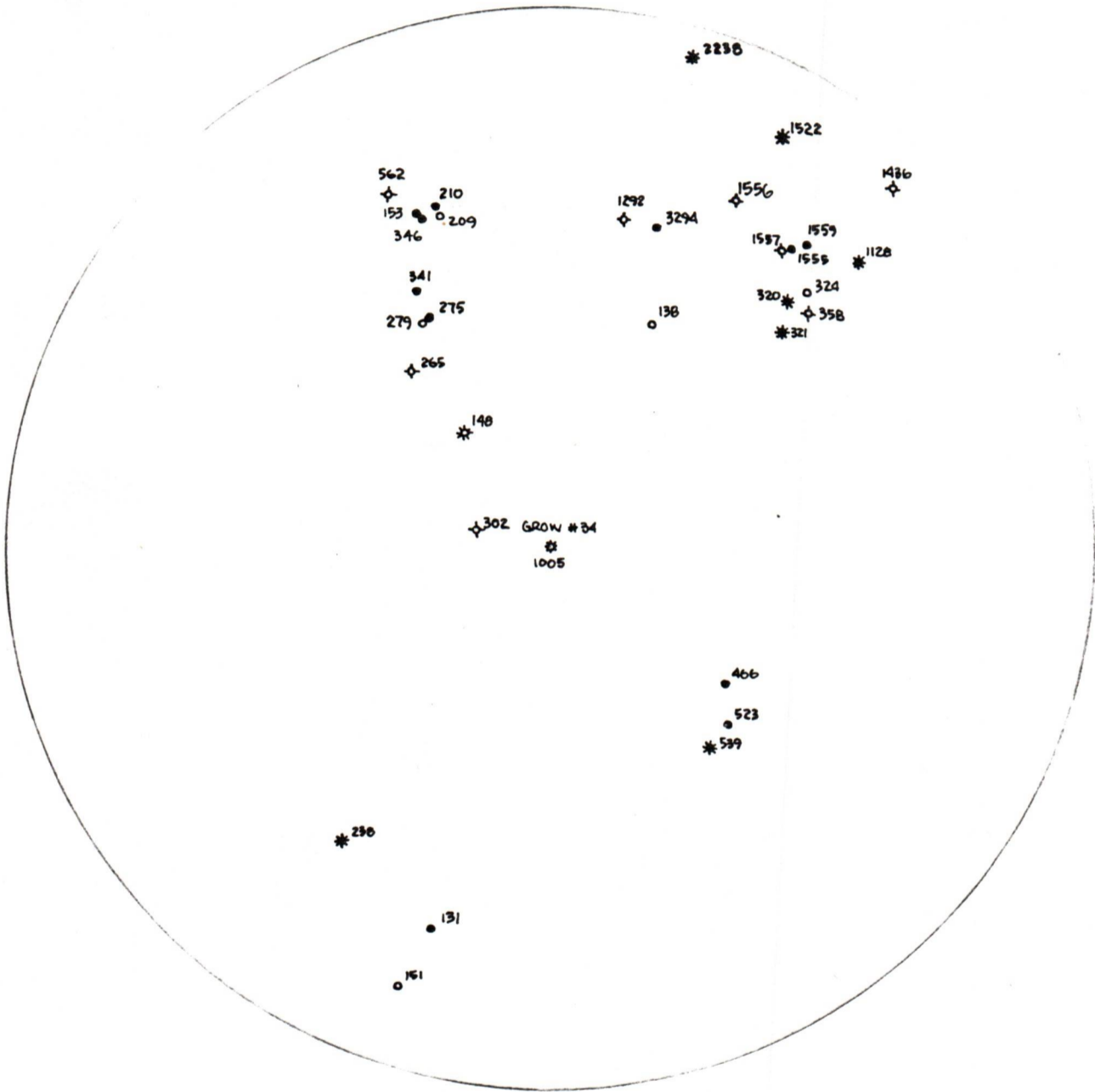
Oil and Gas Inspector

DEPT. OF MINES
 OIL & GAS DIVISION
 MAY 8 1983



1. WOOD LAND THAT HAS BEEN CLEAR CUT, NO VEGETATION, ON A SIDE SLOPE OF 0 to 4% 01/12/2024
2. SIZE OF LOCATION 125' X 175'
3. ACCESS Rd. WILL HAVE SIDE SLOPES & CREEKS DRAINS
4. RECLAMATION WILL BE DONE 6 MONTHS AFTER WELL IS COMPLETED.

LOCATION PLAT
FOR
WAYMAN W. BUCHANAN- GROW NO. 34
AS REQUIRED BY SECTION 102 OF THE NGPA 1978



E : 1"=4000'

PREPARED BY _____

01/12/2024

8

BOOK None PAGE 131

Agreement

 Made and entered into the 15th day of September A.D., 1982 by and between

George C. Grow, Jr. and George C. Grow, Inc., a New Jersey Corporation.
626 Shadowlawn Dr.
Westfield, NJ 07090

parties of the first part hereinafter called Lessor and Wayman W. Buchanan, 444 Petroleum Commerce Building, San Antonio, Texas 78205, party of the second part, hereinafter called Lessee. WITNESSETH:

1. That for and in consideration of the sum of One Dollar (\$1.00) and other valuable considerations in hand paid by Lessee, the receipt of which is hereby acknowledged, and covenants and agreements hereinafter contained, Lessor does hereby grant, demise, lease, and let onto Lessee for its exclusive possession and use for the purpose of (a) exploring, prospecting, drilling, operating for and producing oil and gas, including casinghead gas and casinghead gasoline condensate, (b) saving, treating, transporting and caring for said production and removing therefrom, and from lands operated therewith, brine and other refuse and injecting the same, gas, and any other substances into the subsurface thereof, (d) exercising a right of way and privileges hereinafter granted to Lessee, (e) constructing, operating and maintaining thereon all structures and facilities necessary or convenient for any and all said purposes, pooling or utilizing the same with other lands for such purposes, as hereinafter more fully set out, all that certain tract of land situated in Clay and Burning Springs Districts of Wirt County, and Grant District of Ritchie County, State of West Virginia, as described as follows:

All those certain tracts of land described in Exhibit "B" attached hereto and made a part of this oil and gas lease.

RECEIVED
OCT 18 1982
OIL & GAS DIVISION
DEPT. OF MINES

and bounded substantially by lands now or formerly owned as follows:

On the North by _____ On the East by _____
On the South by _____ On the West by _____

containing 2,337.75 acres, more or less. In addition to the above described land, any and all strings or parcels of land adjoining or contiguous to the above described land owned or claimed by Lessor are hereby leased to Lessee.

Lessee shall be responsible for any damage to growing crops, fences, and buildings which may result from said operations. No well shall be drilled within 200 feet of any house now on said premises without consent of Lessor. Lessor agrees that Lessee may enter upon leased premises, search for and clean out any abandoned oil or gas well, and such well then be considered to have been drilled under the terms of this lease. The same may be properly plugged and abandoned again or refitted and utilized by Lessee for the production of oil. Lessor shall allow Lessee reasonable easements for roadways or pipelines on or across lands herein leased for operations conducted on other lands operated by Lessee.

2. Lessor hereby warrants and agrees to defend the title to said land and agrees that Lessee, at its option, may discharge any tax, mortgage or other lien upon said land, either in whole or in part, and if Lessee does so, it shall be subrogated to such lien with right to enforce same and apply rentals and royalties accruing hereunder toward satisfying same. When required by state, federal or other law, Lessee may withhold taxes with respect to rental, royalty and other payments hereunder and remit the amounts withheld to the applicable taxing authority for credit of Lessor.

3. It is agreed that this lease shall remain in force for the term of five years from the above date, (hereinafter called the primary term), and as long thereafter as the above described land, or any portion thereof, is operated by the Lessee in the search for or production of oil or gas, or as long as oil or gas is being withdrawn from the premises by Lessee, or as long as this lease is extended by any other provisions contained herein.

4. _____

5. The royalties reserved by Lessor, and which shall be paid by Lessee, are: (a) on oil (including but not limited to distillate and condensate) one-eighth (1/8) of that produced or saved from the leased premises, the same to be delivered at the wells or to the credit of Lessor in the pipeline to which the wells may be connected, provided, however, Lessee may from time to time purchase such royalty oil, paying therefor the current market price at the wells in the field or area for oil (crude) having the same or nearest to the same gravity; (b) on gas, casinghead gas and all other gaseous or vaporous substances, produced from said land and sold or used off the leased premises, the market value at the wells of one-eighth (1/8) of the gas so sold or used, such market value at the wells in no event to exceed the net proceeds received by Lessee calculated or allocated back to the wells from which produced, making allowance and deduction for a fair and reasonable charge for gathering, compressing and making merchantable such gas, provided, that on gas sold at the wells, the royalty shall be one-eighth (1/8) of the net proceeds received by Lessee from such sale, after such allowance and deduction, and provided further that, if any such sale of gas is regulated as to price by any governmental agency having jurisdiction, such market value or net proceeds shall in no event exceed the amount received by Lessee, not subject to refund, calculated or allocated back to the wells from which produced, making allowance and deduction of a fair and reasonable charge for gathering, compressing and making merchantable such gas and which amount may be reduced up or down prospectively or retrospectively when the price or rate authorized by such governmental agency is finally determined. During any period (whether before or after the expiration of the primary term hereof) when there is a gas well on the leased premises or on a unit that includes all or a part of the leased premises, however designated, capable of producing or capable of producing gas, and gas is not being sold or used and the well or wells are shut-in for a period of one year and there is no current production of oil or gas or operations on said leased premises or any portion or stratum thereof sufficient to keep this lease in force, Lessee shall be obligated to pay or tender as shut-in royalty an amount (which shall be the same amount) paid regardless of the number of shut-in wells and regardless of whether the shut-in well or wells be located upon said leased premises or upon such other acreage as is embraced within the unit equal to the delay rental as provided herein, payable annually at the end of twelve months from date such well is shut in and while said royalty is so paid or tendered this lease shall be held as a producing property under the provisions of this lease. The amount of each such payment or tender may be paid by check or draft of Lessee in the same manner as provided in Paragraph Seven (7) hereof, and such payments may be made beyond the primary term. Lessee shall use reasonable diligence to market gas capable of being produced from such well or wells but shall be under no obligation to market such gas under terms, conditions, or circumstances which, in Lessee's judgment exercised in good faith, are unsatisfactory. Lessor shall have free use of oil, distillate, condensate, gas, and water from the leased premises for all operations hereunder.

6. Lessee agrees to commence drilling operations on said premises on or before ninety days from the execution of this lease or pay to Lessor a delay rental at the rate of 1.00 dollars per acre per year. Said delay rental shall be payable each six months thereafter during the primary term hereof until drilling operations are commenced on the leased premises, or on acreage pooled therewith as above provided or until this lease is surrendered. If operations for drilling are commenced on the leased premises, or on acreage pooled therewith as above provided, before the end of the term for which delay rentals have been made to Lessor, the unaccrued portion of said payment shall be credited to Lessee as delay rentals or royalties that may be due Lessor. Drilling operations shall be deemed to be commenced when the first material is placed on the leased premises or when the location is surveyed or staked the location, is done thereon which is necessary for such operations.

7. Failure to pay or error in paying any rental or other payment due hereunder shall not constitute a ground for forfeiture of this lease and shall not affect Lessee's obligation to make payment, but Lessee shall not be considered in default on account thereof until Lessor has first given Lessee written notice of the non payment and Lessee shall have failed for sixty (60) days after receipt of such notice to make payment. Payment or tender of rental or other payment hereunder may be made by check or draft of Lessee delivered or mailed to the authorized depository bank of Lessor (at address last known to Lessee) on or before such date for payment, and the payment or tender will be deemed made when the check or draft is delivered or mailed. If said named or successor bank (or any other bank which may, as hereinafter provided have been designated as depository) should fail or liquidate or for any reason refuse or fail to accept rental, Lessee shall not be held in default for failure to make such payment or tender until sixty (60) days after Lessor shall deliver to Lessee a proper receipt from another bank to receive such payments or tenders. The above named or successor bank or any other bank which may be designated as depository shall be the

01/12/2024

43-43
53-18

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 a 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.

RECEIVED
OCT 18 1982

OIL & GAS DIVISION
DEPT. OF MINES

04/12/2024

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 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

RECEIVED

OCT 18 1982

OIL & GAS DIVISION
 DEPT. OF MINES

01/12/2024

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.

RECEIVED

OCT 18 1982

OIL & GAS DIVISION
DEPT. OF MINES

01/12/2024

3

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

RECEIVED
OCT 18 1982

OIL & GAS DIVISION
DEPT. OF MINES

<u>GRANTOR</u>	<u>GRANTEE</u>	<u>EXHIBIT B</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.	Whitecotton 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
L. E. Shuck	George C. Grow	Wetzel Tract	6	11/30/1938	DB 90/273
Louis Roberts, et al.	George C. Grow et al	Wetzel Tract			
Louis Roberts, et al.	George C. Grow et al	Rathbone Lot # 1	7-3/4	11/30/1938	DB 90/273

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

01/12/2024

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 2,337.75

RECEIVED
OCT 18 1982
OIL & GAS DIVISION
DEPT. OF MINES

861
George C. Grow, Jr.
GEORGE C. GROW, JR.

ANDREA McCoy

Received for Record on the 29 day of Sept 1982 at 3:55 O'clock P.M.
Recorded in the Office of the Clerk of the County Commission of Wirt County, W. Va.
In Deed Book No. 106 at page 131
Barbara Chumant
Clerk Wirt County Commission
\$ 4.00 PAID

RECEIVED
OCT 18 1982

OIL & GAS DIVISION
DEPT. OF MINES

Filed and admitted to record in the office of the Clerk of the County Commission of Ritchie County, W. Va. SEP 29 1982
19 at 9:00 O'clock A.M.
Recorded in LEASE
Book No. 148 Page 72
m... Linda B Mann LC

©1112-2024

B-1



IV-35
(Rev 8-81)

Date Nov. 1, 1982
Operator's
Well No. _____
Farm Grow # 34
API No. 047 - 105 - 1005

State of West Virginia
Department of Mines
Oil and Gas Division

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: 1009.85 Watershed Lick Run
District: Clay County Wirt Quadrangle Girta 7.5'

COMPANY Wayman W. Buchanan

ADDRESS San Antonio, Texas 78205

DESIGNATED AGENT Jim P. Morris

ADDRESS Charleston, W.V. 25301

SURFACE OWNER Westvaco

ADDRESS Box 577, Rupert, W.V. 25984

MINERAL RIGHTS OWNER George C. Grow, Jr.
626 Shadowlawn Dr..

ADDRESS Westfield, N.J. 07090

OIL AND GAS INSPECTOR FOR THIS WORK Deo

Mace ADDRESS Sandyridge, W.V. 25274

PERMIT ISSUED Oct. 21, 1982

DRILLING COMMENCED Oct. 26, 1982

DRILLING COMPLETED Oct. 31, 1982

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		363'	175 sks
8 5/8			
7		1533'	200 sks
5 1/2			
4 1/2		4770'	250 sks
3			
2			
Liners used	RECEIVED MAR 23 1983 OIL AND GAS DIVISION WV DEPARTMENT OF MINES		

GEOLOGICAL TARGET FORMATION Brailer Shale Depth 3500 feet

Depth of completed well 4762 feet Rotary X / Cable Tools _____

Water strata depth: Fresh 120 feet; Salt 560 feet

Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3586-3931 feet

Gas: Initial open flow TSTM Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 30 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 24 hours

Static rock pressure 275 psig (surface measurement) after 16 days 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

(Continue on reverse side)

WIRT 1005

01/12/2024

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

Perforated 32 holes from 3586 to 3931 feet
Treated and fractured with 500 gals 15% HCL, 50,000 sef N₂
and 96,000 sef CO₂; avg. breakdown was 2777 psi.

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 and Shale	0	704	
		Shale	704	803	
		Sand	803	825	
		Shale	825	830	
		Sand	830	841	
		Shale	841	845	
		Sand	845	857	
		Shale	857	906	
		Sand	906	940	
		Shale	940	943	
		Sand	943	948	
		Shale	948	951	
		Sand	951	986	
		Big Lime	986	1036	
		Big Injun	1036	1050	
		Shale	1050	1053	
		Squaw	1053	1085	
		Shale	1085	1090	
		Lw Squaw	1090	1161	
		Shale	1161	1555	
		Berea	1555	1558	
		Shale	1558	4762	
		TD	4762		

(Attach separate sheets as necessary)

Wayman W. Buchanan

Well Operator

01/12/2024

By: Guy Wright

Date: 3/15/83

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
coal, encountered in the drilling of a well."

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

INSPECTOR'S WELL REPORT

Permit No. 105-1005

Oil or Gas Well _____
(KIND)

Company W. Buchanan
 Address _____
 Farm G. GROW
 Well No. 34
 District Clay County West
 Drilling commenced _____
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8 1/4			
6 5/8			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 9 5/8 SIZE 363 No. FT. 10-27-82 Date

NAME OF SERVICE COMPANY Haliburton

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names Hunt 5

Remarks:

RECEIVED

NOV 3 - 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

10-27-82

DATE

W. Co Mace 01/12/2024

DISTRICT WELL INSPECTOR

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

01/12/2024
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
FINAL INSPECTION REQUEST
INSPECTOR'S COMPLIANCE REPORT

RECEIVED
 AUG 24 1983

OIL & GAS DIVISION
 DEPT. OF MINES

Permit No. 105-1005 County Wirt
 Company Wayman Buchanan Farm How
 Inspector _____ Well No. 34
 Date _____

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 Strength	_____	_____
23.02	Maintained Access Roads	_____	_____
25.01	Necessary Equipment to prevent Waste	_____	_____
23.03	Reclaimed Drilling Site	_____	_____
23.04	Reclaimed Drilling Pits	_____	_____
23.05	No surface or underground Pollution	_____	_____
7.03	Identification Markings	_____	_____

COMMENTS: _____

Release

I have inspected the above well and (HAVE/HAVE NOT) found it to be in compliance with all of the rules and regulations of the Office of Oil and Gas Department of Mines of the State of West Virginia.

SIGNED: W. M. Mace
 DATE: 8-19-83

01/12/2024



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

WALTER N. MILLER
DIRECTOR

THEODORE M. STREIT
ADMINISTRATOR

August 30, 1983

Wayman W. Buchanan
P. O. Box 106
Kenna, W. Va. 25248

In Re: PERMIT NO: 47-105-1005
FARM: George C. Grow, Jr./Westvaco
WELL NO: Grow #34
DISTRICT: Clay
COUNTY Wirt

Gentlemen:

The FINAL INSPECTION REPORT for the above described well has been received in this office. Only the column check below applies:

_____ The well designated by the above permit number has been released under your Blanket Bond.

_____ Please return the enclosed cancelled single bond which covered the well designated by the above permit number to the surety company who executed said bond in your behalf, in order that they may give you credit on their records.

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

Very truly yours,

Theodore M. Streit, Administrator
Office of Oil & Gas-Dept. Mines

TMS/

01/12/2024

RECEIVED
 MAR 23 1983
 OIL & GAS DIVISION
 DEPT. OF MINES

1.0 API well number: (If not available, leave blank. 14 digits.)	_____ 47-105-1005												
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	_____ 102 Section of NGPA												
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	_____ 4762 feet												
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Wayman W. Buchanan Name 444 Petroleum Commerce Building Street San Antonio Texas 78205 City State Zip Code												
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Cisco Field Name Wirt WV County State												
(b) For OCS wells:	_____ Area Name Block Number Date of Lease: _____ Mo. Day Yr. OCS Lease Number												
(c) Name and identification number of this well: (35 letters and digits maximum.)	_____ Grow #34												
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	_____												
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Consolidated Gas Supply Corporation Name Buyer Code												
(b) Date of the contract:	_____ Mo. Day Yr.												
(c) Estimated annual production:	_____ MMcf.												
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">(a) Base Price (\$/MMBTU)</th> <th style="width: 25%;">(b) Tax</th> <th style="width: 25%;">(c) All Other Prices [Indicate (+) or (-).]</th> <th style="width: 25%;">(d) Total of (a), (b) and (c)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Unknown - . - - -</td> <td style="text-align: center;">- . - - -</td> <td style="text-align: center;">- . - - -</td> <td style="text-align: center;">- . - - -</td> </tr> <tr> <td style="text-align: center;">- . - - -</td> <td style="text-align: center;">- . - - -</td> <td style="text-align: center;">- . - - -</td> <td style="text-align: center;">- . - - -</td> </tr> </tbody> </table>	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)	Unknown - . - - -	- . - - -	- . - - -	- . - - -	- . - - -	- . - - -	- . - - -	- . - - -
(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)										
Unknown - . - - -	- . - - -	- . - - -	- . - - -										
- . - - -	- . - - -	- . - - -	- . - - -										
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	- . - - -												
9.0 Person responsible for this application:	Stephen E. Cain Name Reg. Comp. Officer _____ Signature Title _____ March 15, 1983 (304) 345-6631 Date Application is Completed Phone Number												

Agency Use Only
Date Received by Juris. Agency MAR 23 1983
Date Received by FERC

01/12/2024

JUN 23 1983

PARTICIPANTS:

DATE:

BUYER-SELLER CODE

WELL OPERATOR: Wayman W. Buchanan

FIRST PURCHASER: Consolidated Gas Supply Corp.

OTHER: _____

004228

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
830323-102-105-1005
 Use Above File Number on all Communications
 Relating to Determination of this Well

QUALITY

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

- ITEM NO.
1. FERC -121 Items not completed - Line No. 7.0 + 8.0 All
 2. IV-1 Agent Leroy Hopkins
 3. IV-2 Well Permit _____
 4. IV-6 Well Plat
 5. IV-35 Well Record Drilling Deepening _____
 6. IV-36 Gas-Oil Test: Gas Only _____ Was Oil Produced? _____ Ratio _____
 7. IV-39 Annual Production _____ years
 8. IV-40 90 day Production _____ Days off line: _____
 9. IV-48 Application for certification. Complete?
 - 0-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete? Affidavit Signed
 - 8-28. Other: Survey _____ Logs _____ Geological Charts _____
 Structure Map _____ 1: 4000 Map Well Tabulations
 Gas Analyses _____
 - (5) Date commenced: 10-26-82 Date completed 10-31-82 Deepened _____
 - (5) Production Depth: 3586 - 3931
 - (5) Production Formation: Devonian Shale
 - (5) Final Open Flow: 30 MCF
 - (5) After Frac. R. P. 275#
 - (6) Other Gas Test: _____
 - (7) Avg. Daily Gas from Annual Production: _____
 - (8) Avg. Daily Gas from 90-day ending w/1-120 days _____
 - (8) Line Pressure: _____ PSIG from Daily Report
 - (5) Oil Production: _____ From Completion Report _____
 7. Does lease inventory indicate enhanced recovery being done No
 7. Is affidavit signed? Notarized?
 - official well record with the Department confirm the submitted information? 01/12/2024
yes
 - ditional information _____ Does computer program confirm? _____
 - Determination Objected to _____ By Whom? _____

Operator's Well No. Grow #34

API Well No. 105 1005
State 27 County Permit

STATE APPLICATION FOR WELL CLASSIFICATION

Previous File No. _____
(If Applicable)

WELL OPERATOR Wayman W. Buchanan
ADDRESS 444 Petroleum Commerce Bldg.
San Antonio, Texas 78205

DESIGNATED AGENT Leroy Hopkins
ADDRESS P. O. Box 106
Kenna, WV 25248

Gas Purchase Contract No. _____ and Date _____
Meter Chart Code _____ (Month, day and year)

Name of First Purchaser Consolidated Gas Supply Corporation
P. O. Box 2450
Clarksburg, WV 26301
(City) (State) (Zip Code)

FERC Seller Code _____ FERC Buyer Code _____

TYPE OF DETERMINATION BEING SOUGHT:

- (1) Initial determination (See FERC Form 121.) 102 3
Section of NGPA Category Code
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

Stephen E. Cain Reg. Comp. Officer
Name (Print) Title
[Signature]
Signature

401 Peoples Building
Street or P. O. Box
Charleston, WV 25301
City State (Zip Code)
304 345-6631
Area Phone Number
Code

(Certificate of Proof of Service to Purchaser)

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request, for certification of the above described well as meeting the requirements of Section _____ under the Natural Gas Policy Act of 1976, (NGPA); or for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA); or for determination of a seasonally affected well under Section 108 of (NGPA).

All interested parties are hereby notified that on the _____ day of _____, 19____, at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard, there will be a public hearing, if requested, or if objection is filed.

This Application is assigned File No. _____

Initial review of information submitted indicates the well is, is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

MAR 23 1983

Date received by Jurisdictional Agency _____

By [Signature] 01/12/2024
Title _____

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

DATE March 15, 1983

Operator's Well No. Grow #34

API Well No. 47 - 105 - 1005
State County Permit

WELL CLASSIFICATION FORM

WELLS DRILLED MORE THAN 1,000 FEET DEEPER THAN A MARKER WELL

NGPA Section 102(c)(1)(B)(ii) Category 3

DESIGNATED AGENT Mr. Leroy Hopkins

ADDRESS P. O. Box 106

Kenna, WV 25248

WELL OPERATOR Wayman W. Buchanan

LOCATION: Elevation 1009.85

ADDRESS 444 Petroleum Commerce Bldg.

Watershed Lick Run

San Antonio, Texas 78205

District Clay County Wirt Quad. Girta 7.5

GAS PURCHASER Consolidated Gas Supply

Gas Purchase Contract No. _____

ADDRESS P. O. Box 2450

Meter Chart Code _____

Clarksburg, WV 26301

Date of Contract _____

* * * * *

List all records reasonably available to you which contain information relevant to a determination of eligibility (including production records, B&O Tax Records and royalty payment records) and indicate the location of such records:

See attached sheet of completion data with top perms or top of completion interval indicated.

Describe the search made of any records listed above:

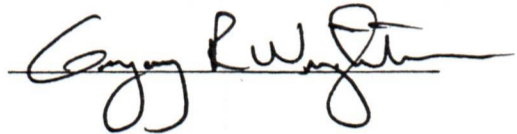
Are there any records not reasonably available to you which may contain information relevant to a determination of eligibility? Yes ___ No X. If yes, identify such records and indicate their location, if known:

01/12/2024

Are you aware of any other information which would tend to be inconsistent with the information specified above? Yes No X. If yes, indicate the type and source of the information.

AFFIDAVIT

I, Gregory Wrightstone, having been first duly sworn according to law, state that I have caused to be made a diligent search of those records hereinbefore indicated in the manner herein described, that the information contained in this document is true and accurate, and that on the basis of the records and examinations hereinbefore described and to the best of my information, knowledge and belief, there is no marker well within 2.5 miles of the well for which this determination is sought which has a completion location less than 1,000 feet above the completion location of the said well for which determination is sought.



STATE OF WEST VIRGINIA

COUNTY OF Kanawha, TO WIT:

I, Vicky R. Burdette, a Notary Public in and for the state and county aforesaid, do certify that Gregory Wrightstone, whose name is signed to the writing above, bearing date on the 15 day of March, 19 83 has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 15 day of March, 19 83.

My term of office expires on the 1st day of December, 19 90.

[NOTARIAL SEAL]


Notary Public

* * * * *

BOTTOM HOLE PRESSURE DATA

Indicate the bottom hole pressure of the well and explain how this was calculated.

$$\text{BHP} = 275 + 275 \left(e \frac{4739 \times .68}{53.34 \times (102 + 460)} - 1 \right)$$

$$\text{BHP} = 308$$



DATE Oct. 11, 1982

WELL NO. Grow No. 34

State of West Virginia

API NO. 47-085-1005

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

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

DESIGNATED AGENT Jim P. Morris
Address Charleston, WV 26164
Telephone 345-6631

LANDOWNER WV Pulp and Paper

SOIL CONS. DISTRICT Little Kanawha

Revegetation to be carried out by Unknown Contractor (Agent)

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

10-11-82
(Date)

Jarrett Newton
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Drainage Ditch (A)

Structure Diversion Ditch (1)

Spacing _____

Material Earthen

Page Ref. Manual 2:12

Page Ref. Manual 2:12

Structure Culvert

Structure _____ (2)

Spacing 12" Min-30" Mas I. D.

Material Straw

Page Ref. Manual 2:7 & 2:8

Page Ref. Manual 3:6 & 3:7

Structure Cross Drains (C)

Structure _____ (3)

Spacing 135' - 400'

Material _____

Page Ref. Manual 2:1 & 2:4

Page Ref. Manual _____

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

Lime 3 Tons/acre
or correct to pH 6-5

Fertilizer 600 lbs/acre
(10-20-20 or equivalent)

Fertilizer 600 lbs/acre
(10-20-20 or equivalent)

Mulch Hay 2 Tons/acre

Mulch Hay 2 Tons/acre

Seed* Kentucky 31 Fescue 45 lbs/acre

Seed* Kentucky 31 Fescue 45 lbs/acre

Crown Vetch 10 lbs/acre

Ladino Clover 5 lbs/acre

lbs/acre

01/12/2024

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

PLAN PREPARED BY Olin Shockey

ADDRESS Rt. 1, Box 139-B

Ravenswood, WV 26164

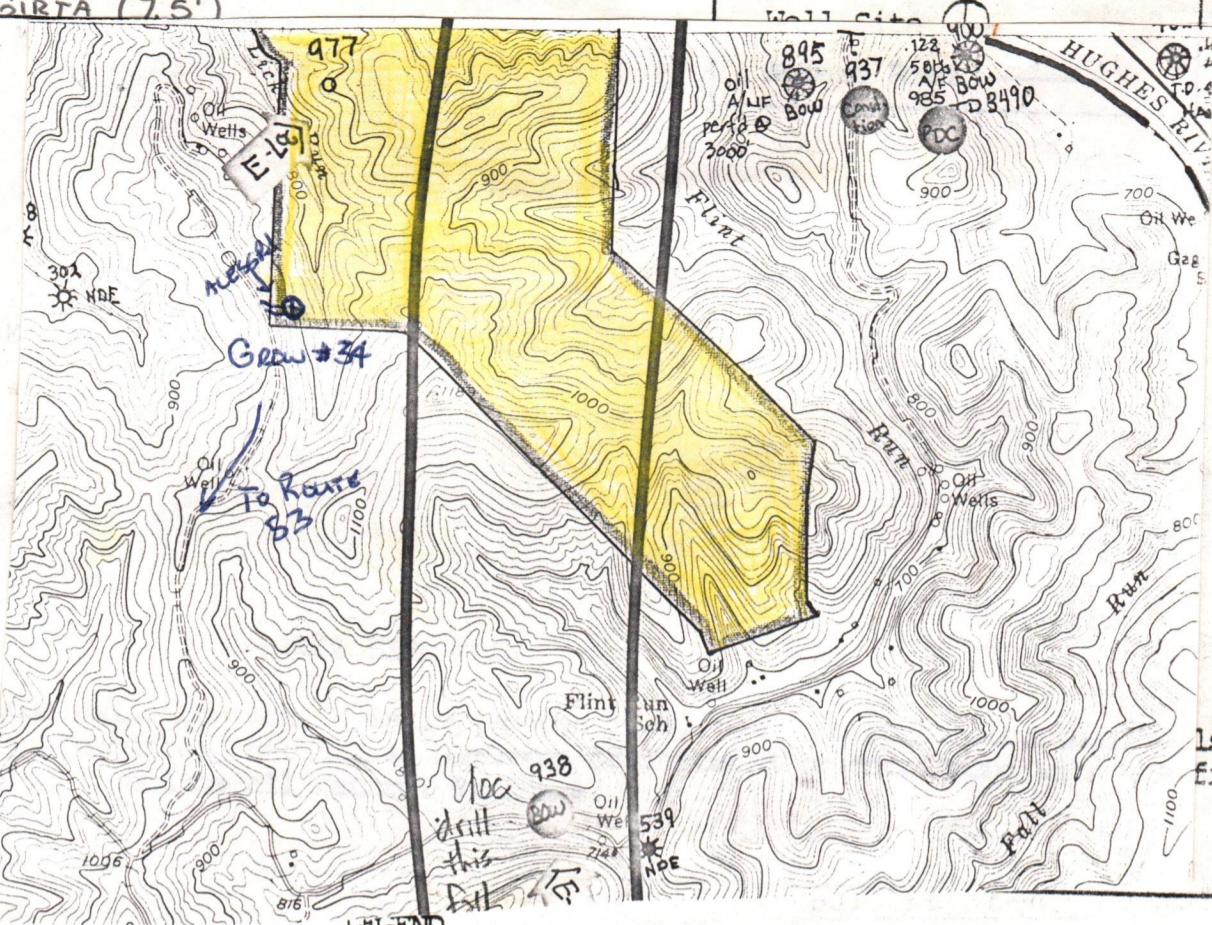
304-273-2246

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 GIRA (7.5')

LEGEND

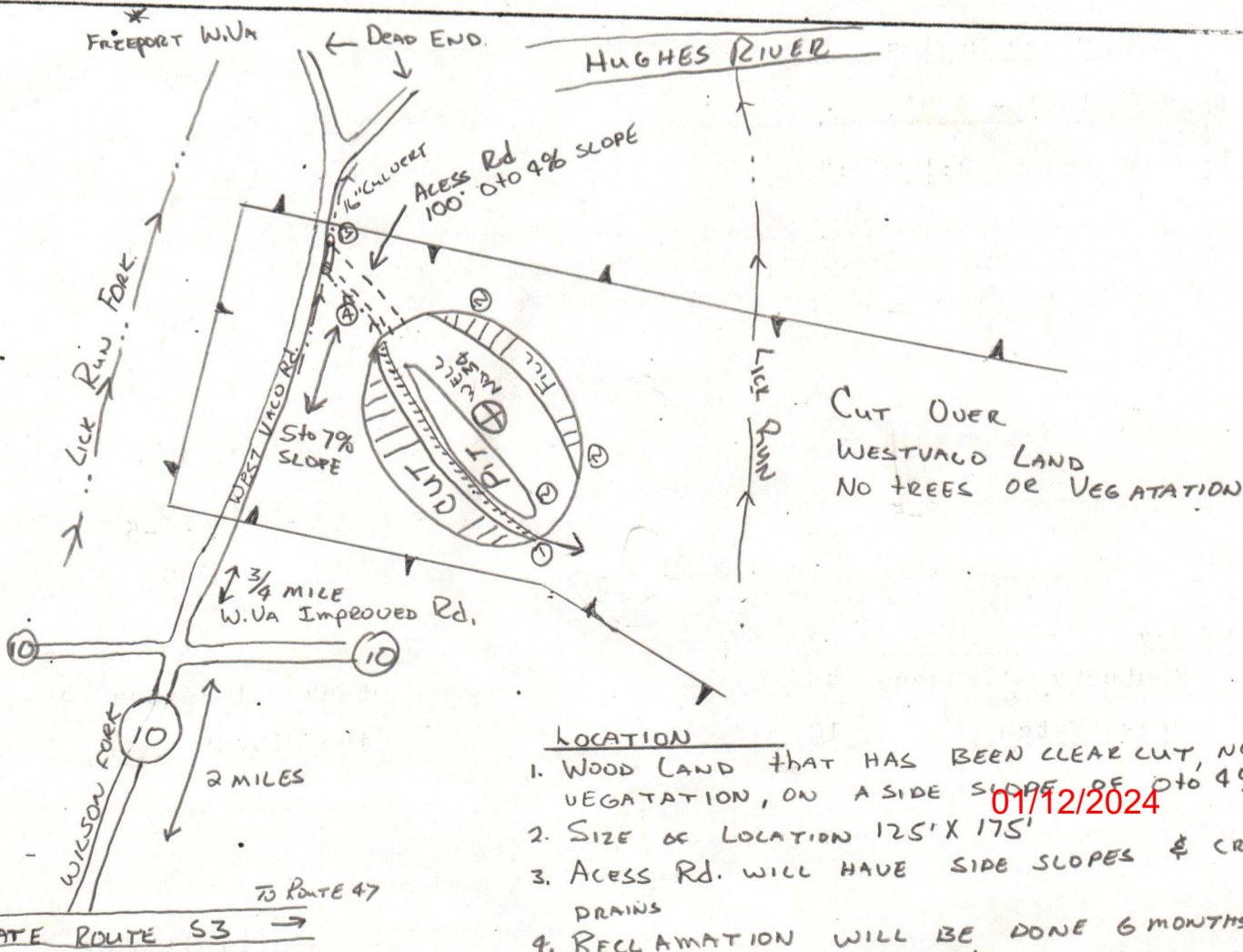


Sketch to incl drilling pits part of this f

LEGEND

- Property boundary
- Road
- Existing fence
- Planned fence
- Stream
- Open ditch

- Diversion
- Spring
- Wet spot
- Building
- Drain pipe
- Waterway



CUT OVER WESTVAO LAND NO TREES OR VEGATATION

- LOCATION
1. WOOD LAND THAT HAS BEEN CLEAR CUT, NO VEGATATION, ON A SIDE SLOPE OF 0 to 4%
 2. SIZE OF LOCATION 125' X 175'
 3. ACCESS RD. WILL HAVE SIDE SLOPES & CROSS DRAINS
 4. RECLAMATION WILL BE DONE 6 MONTHS AFTER WELL IS COMPLETED.

01/12/2024

IV-27
11/23/81

E-3



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Date: MAY 13, 1983
Well No: GRW # 34
API NO: 47 - 105 - 1005
State County Permit

Oil and Gas Division
NOTICE OF VIOLATION

WELL TYPE: Oil ___ / Gas ___ Liquid Injection ___ / Waste Disposal ___ /
Of "Gas" - Production ___ / Storage ___ / Deep ___ / Shallow ___ /

LOCATION: Elevation: _____ Watershed: LICK RUN
District: CLAY County: WIAT Quadrangle: _____

WELL OPERATOR WAYMAN BUCHANAN DESIGNATED AGENT JIM P. MORRIS
Address _____ Address 401 PEOPLES BLDG.
CHARLESTON WV 25301

The above well is being posted this 13 day of MAY, 1983, for a violation of Code 22-4-12B and/or Regulation 23.03, set forth in detail as follows:
(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)

RECLAMATION IS IN COMPLETE AFTER SIX MONTHS FOLLOWING COMPLETION OF WELL.

PIT NEEDS FILLED & LOCATION GRADED & SEEDD.

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

You are hereby granted until MAY 20, 1983, to abate this violation.

Failure to abate the violation may result in action by the Department under Code 22-4-17 or Code 22-4-18.

RECEIVED
MAY 18 1983

OIL & GAS DIVISION
DEPT. OF MINES

Duo Mace
Oil and Gas Inspector

Address RT 1 BOX 5
Sand Ridge WV
25274

Telephone: 635 0112/2024

Posted 5/21/83