



1) Date: October 12, 1982
2) Operator's Well No. Grow #42
3) API Well No. 47 105 1004
State County Permit

DRILLING CONTRACTOR:

Clint Hurt

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

Edens Fork, WV

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas
B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 686.5 Watershed: Hughes River
District: Clay County: Wirt Quadrangle: Petroleum (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
- 8) SURFACE OWNER Same as above 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
Address _____ Name _____
Acreage 110 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
- 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

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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
Fresh water									Sizes
Coal									Depths set
Intermediate	7			X			1500	Circ.	Perforations:
Production	4 1/2			X			3500	350 sks.	Top Bottom
Tubing									
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: Vicky R. Burdette
My Commission Expires 12/1/90

Signed: Jim P. Morris
Its: Designated Agent

OFFICE USE ONLY

DRILLING PERMIT

Permit number

47-105-1004

October 15

Date

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 June 15, 1983

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

Bond: <u>Blanket</u>	Agent: <u>OK</u>	Plat: <u>M.S.</u>	Casing: <u>M.S.</u>	Fee: <u>1693</u>
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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.

WAIVER

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.

01/12/2024

Date: _____, 19____

By _____

Its _____



DATE Oct. 11, 1982

WELL NO. Grow No. 42

State of West Virginia

API NO. 47-105-1004

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
Telephone 345-6631

LANDOWNER George C. Grow

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)
Spacing _____
Page Ref. Manual 2:12

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

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

Structure _____ (2)
Material Straw
Page Ref. Manual 3:6 & 3:7

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

Lime 3 Tons/acre
or correct to pH 6-5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch Hay 2 Tons/acre
Seed* Kentucky 31 Fescue 45 lbs/acre
Crown Vetch 10 lbs/acre
_____ lbs/acre

Treatment Area II

Lime 3 Tons/acre
or correct to pH 6-5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch Hay 2 Tons/acre
Seed* Kentucky 31 Fescue 45 lbs/acre
Ladino Clover 5 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.

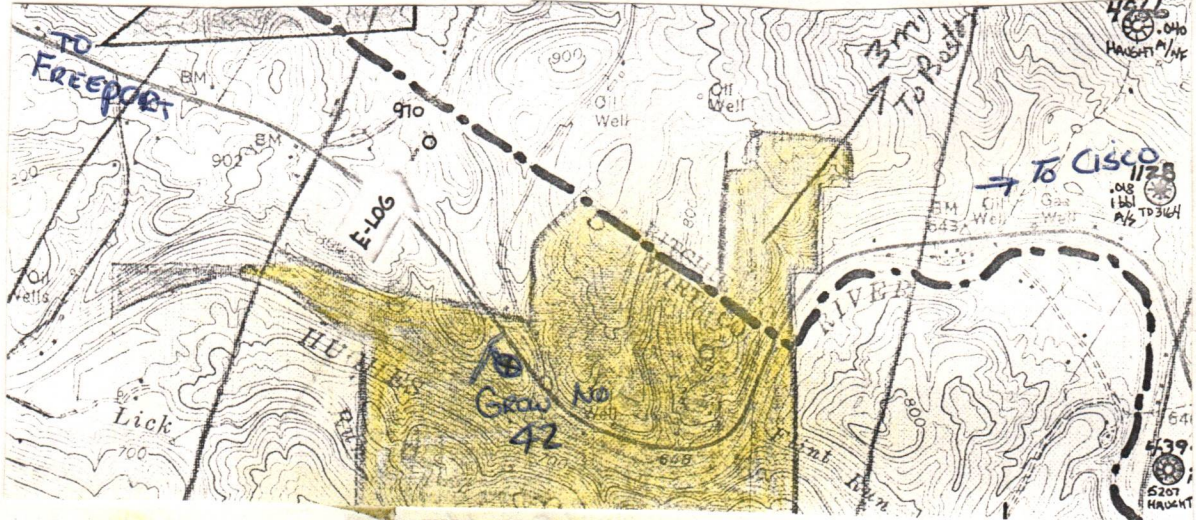
NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

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

LEGEND

Well Site ⊕

Access Road ———

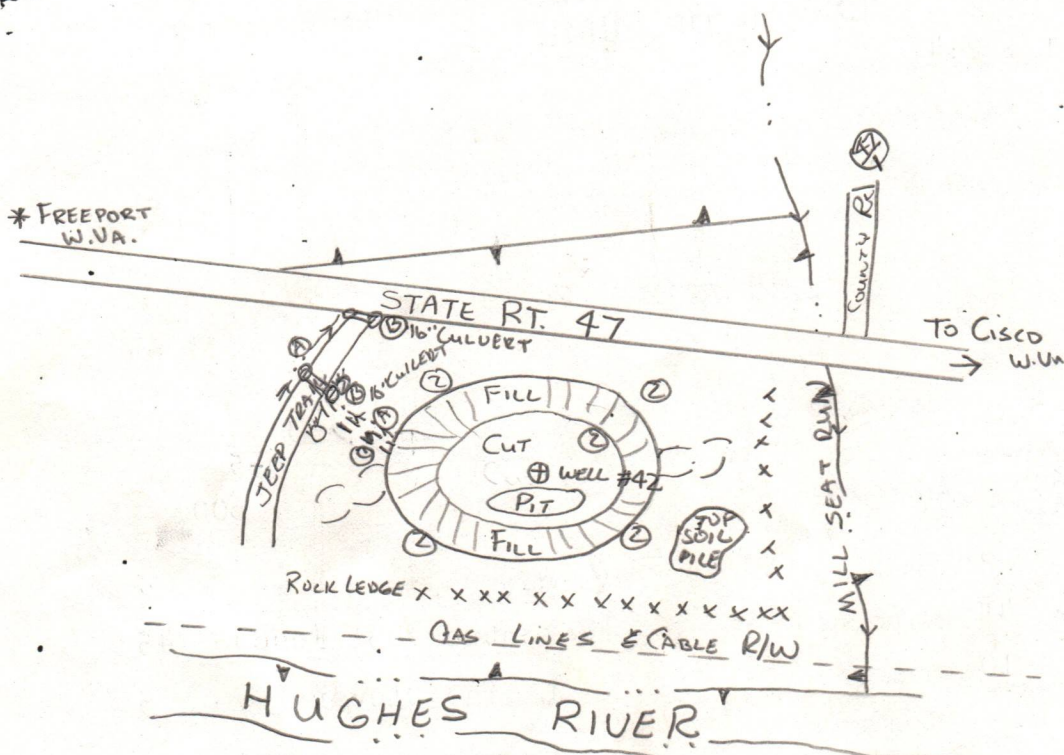


WELL SITE PLAN

Sketch to include well location, existing access road, roads to be constructed, well site drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

- | | |
|-----------------------------------|-----------------------------|
| Property boundary ———▲————— | Diversion ———▲————— |
| Road = = = = = | Spring ⊕→ |
| Existing fence ———x—————x————— | Wet spot ⊕ |
| Planned fence ———/—————/————— | Building ■ |
| Stream ~ ~ ~ ~ ~ | Drain pipe ———○—————○—————→ |
| Open ditch ———>—————>—————>—————> | Waterway ⊕= = = = |



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LOCATION

1. 0.403% SLOPE TOP OF THE POINT ON A SMALL RIDGE, SECOND GROWTH TIMBER & BR
2. SIZE OF LOCATION 125' X 175'
3. All timber will be cut & stacked according to land owners wants
4. Access road will have side slopes & cross drains
5. Reclamation will be done 6 months after well is completed

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01/12/2024

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 holes thereon 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

GEORGE C. GROW, INC.,
a New Jersey Corporation
BY George C. Grow, Jr.
Its President

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

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OCT 13 1982

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DEPT. OF MINES

01/12/2024

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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 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.

01/12/2024

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OCT 18 1982

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DEPT. OF MINES

01/12/2024

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

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OCT 13 1982

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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.

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

EXHIBIT B

RECORDING

DATE

ACREAGE

DESCRIPTIVE NAME

GRANTEE

GRANTOR

BURNING SPRINGS DISTRICT, WIRT COUNTY, WEST VIRGINIA

GRANTOR	GRANTEE	DESCRIPTIVE NAME	ACREAGE	DATE	RECORDING
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
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

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

RECEIVED
OCT 13 1982

OIL & GAS DIVISION
DEPT. OF MINES

01/12/2024

53-18

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

801
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. 166 at page 131
Barbara Chumak
Clerk Wirt County Commission
\$ 4.00 PAID

RECEIVED

OCT 13 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 he ASE
Book No. 148 Page 725
H. J. ...

©10/12/2024



IV-35
(Rev 8-81)

Date Nov. 1, 1982

State of West Virginia
Department of Mines
Oil and Gas Division

Operator's
Well No. _____

Farm Grow # 42

API No. 047-105-1004

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: 686.5 Watershed Hughes River
District: Clay County Wirt Quadrangle Petroleum 7.5!

COMPANY Wayman W. Buchanan

ADDRESS San Antonio, Texas 78205

DESIGNATED AGENT Jim P. Morris

ADDRESS Charleston, W.V. 25301

SURFACE OWNER George C. Grow, JR.

ADDRESS Westfield, N.J. 07090

MINERAL RIGHTS OWNER same as above

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK Deo

Mace ADDRESS Sandyridge, W.V. 25274

PERMIT ISSUED Oct. 15, 1982

DRILLING COMMENCED Oct. 25, 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		347'	125 sks
8 5/8			
7		1452'	210 sks
5 1/2			
4 1/2		4512	225 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Brailer Shale Depth 3500 feet

Depth of completed well 4515 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 2601 to 3337 feet

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

Final open flow 250 Mcf/d Final open flow 5 Bbl/d

Time of open flow between initial and final tests 24 hours

Static rock pressure 825 psig (surface measurement) after 384 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

01/12/2024

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

Perforated 32 holes from 4005 to 4474 feet.

Treated and fractured with 1,000,000 sef N₂

avg. breakdown 2350 psi

Perforated 32 holes from 3111 to 3337 feet

Treated and Fractured with 750 gal 15% HCL and 1,000,000 sef N₂

avg. breakdown 2650 psi

Perforated 32 holes from 2601 to 2984 feet

Treated and Fractured with 750 gal 15% HCL and 1,000,000 sef N₂

Avg. breakdown 2600 psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fre and salt water, coal, oil and c
Sand and Shale			0	500	
Sand			500	524	
Shale			524	527	
Sand			527	532	
Shale			532	534	
Sand			534	554	
Shale			554	560	
Sand			560	579	
Shale			579	596	
Sand			596	706	
Shale			706	713	
Sand			713	718	
Shale			718	729	
Big Lime			729	773	
Big Injun			773	798	
Shale			798	801	
Squaw			801	822	
Shale			822	834	
Lw Squaw			834	900	
Shale			900	906	
Siltstone			906	910	
Shale			910	914	
Siltstone			914	921	
Shale			921	926	
Siltstone			926	932	
Shale			932	1202	
Siltstone			1202	1205	
Shale			1205	1302	
Berea			1302	1305	
Shale/Siltstone			1305	1800	
Shale			1800	4515	
TD			4515		

(Attach separate sheets as necessary)

Wayman W. Buchanan
Well Operator

01/12/2024

By:

Way Wightman

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

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

INSPECTOR'S WELL REPORT

Permit No. 105-1004

Oil or Gas Well _____
(KIND)

Company W. Buchanan
 Address _____
 Farm A. Brown
 Well No. 42
 District Clay County Wirt
 Drilling commenced 10-25-82
 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 _____ SIZE _____ No. FT. _____ Date _____
 NAME OF SERVICE COMPANY _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names Hunt 2

RECEIVED

Remarks: Spud Today

NOV 3 - 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

10-29-82
DATE

W. S. Mace 01/12/2024
DISTRICT WELL INSPECTOR

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

INSPECTOR'S WELL REPORT

Permit No. 105-1004

Oil or Gas Well _____
(KIND)

Company W. Buchanan
 Address _____
 Farm B. Snow
 Well No. 42
 District Clay County Wirt
 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 3/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED 9 5/8 SIZE 3 1/2 No. FT. 10-26-82 Date
 NAME OF SERVICE COMPANY Halibuton
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names Hunt 2

Remarks: 175 SACKS cement

RECEIVED

NOV 3 - 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

10-26-82

DATE

Wes Macer

01/12/2024

DISTRICT WELL INSPECTOR



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

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

RECEIVED
SEP 25 1984
OIL & GAS DIVISION
DEPT. OF MINES

COMPANY Wayman W. Buchanan
San Antonio, Texas

PERMIT NO 105-1004 (10-82)
FARM & WELL NO Grow #42
DIST. & COUNTY Clay - Wirt

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	✓	
25.01	Necessary Equipment to Prevent Waste	✓	
23.04	Reclaimed Drilling Pits	✓	
23.05	No Surface or Underground Pollution	✓	
23.07	Requirements for Production & Gathering Pipelines	✓	
16.01	Well Records on Site		
16.02	Well Records Filed		
7.05	Identification Markings	✓	

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

SIGNED Homer H. Dougherty
DATE 9/20/84

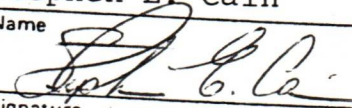
Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. H. ...
Administrator-Oil & Gas Division
November 8, 1984

TMS/chm

DATE

01/12/2024

1.0 API well number: (If not available, leave blank. 14 digits.)	47-105-1004												
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA												
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	4515 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 Seller 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 #42												
(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 Corp. 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.)	<table border="1" style="width:100%; border-collapse: collapse;"> <tbody> <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>	---	---	---	---								
---	---	---	---										
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												

MAR 25 1983
OIL & GAS DIVISION
DEPT. OF MINES

Agency Use Only
Date Received by Juris. Agency
MAR 25 1983
Date Received by FERC

DATE: JUN 23 1983

BUYER-SELLER CODE

PROPERTY OWNERS:

WELL OPERATOR: Wayman W. Buchanan

FIRST PURCHASER: Consolidated Gas Supply Corp.

OTHER:

004228

1500

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
830325-103105-1004
 Use Above File Number on all Communications
 Relating to Determination of this Well

~~Noted for notations of liability~~

QUALIFIED

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

- ITEM NO. 1. FERC -121 Items not completed - Line No. All 7.0 + 8.0
2. IV-1 Agent Teroy 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?
- 10-17. IV Form 51 - 52 - 53 - (54) - 55 - 56 - 57 - 58 Complete? Affidavit Signed
- 18-28. Other: Survey _____ Logs _____ Geological Charts _____
 Structure Map _____ 1: 4000 Map _____ Well Tabulations _____
 Gas Analyses _____
- (5) Date commenced: 10-25-82 Date completed 10-31-82 Deepened _____
- (5) Production Depth: 2601-3337
- (5) Production Formation: Devonian Shale
- (5) Final Open Flow: 250 MCF
- (5) After Frac. R. P. 825# 384 hrs.
- (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 _____
- (5) Oil Production: _____ From Completion Report _____
- 10-17. Does lease inventory indicate enhanced recovery being done NO
- 10-17. Is affidavit signed? Notarized?
- Does official well record with the Department confirm the submitted information? yes 01/12/2024
- Additional information _____ Does computer program confirm? _____
- Was Determination Objected to _____ By Whom? _____

7B

Date March 15, 19 83

Operator's Well No. Grow #42

API Well No. 105 - 1004
State 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 _____
(Month, day and year)

Meter Chart Code _____

Name of First Purchaser Consolidated Gas Supply Corporation
P. O. Box 2450
(Street or P. O. Box)
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.) 103 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 1975, (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 25 1983

Date received by
Jurisdictional Agency

By _____

Title _____

01/12/2024

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

Date March 15, 1983

Operator's Grow #42
Well No. _____

API Well No. 47 - 105 - 1004
State County Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL
NGPA Section 103

DESIGNATED AGENT Leroy Hopkins

ADDRESS P. O. Box 106
Kenna, WV 25248

WELL OPERATOR Wayman W. Buchanan LOCATION: Elevation 686.50

ADDRESS 444 Petroleum Commerce Bldg. Watershed Hughes River

San Antonio, Texas 78205 Dist. Clay County Wirt Quad Petroleum

GAS PURCHASER Consolidated Gas Supply Gas Purchase Contract No. _____ 7.5

ADDRESS P. O. Box 2450 Meter Chart Code _____

Clarksburg, WV 26301 Date of Contract _____

* * * * *

Date surface drilling was begun: 10/25/82

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

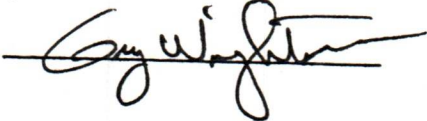
$$BHP = P_1 + P_1 \left[e^{\frac{TD (.68)}{53.34 (T+460)}} - 1 \right]$$

$$BHP = 870 + 870 \left[e^{\frac{4515 (.68)}{53.34 (98 + 460)}} - 1 \right]$$

$$BHP = 964.53$$

AFFIDAVIT

I, Gregory Wrightstone having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 19, 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, in existence at the time surface drilling began, which was applicable to the reservoir from which gas is or will be produced and which applied to any other well producing gas in commercial quantities or on which surface drilling began on or after February 19, 1977, and which was capable of producing gas in commercial quantities. I state, further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.



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 the 15 day of March, 1983, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 15 day of March, 1983.

My term of office expires on the 1st day of December, 1990.


Notary Public

[NOTARIAL SEAL]

01/12/2024

E-3



IV-27
11/23/81

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Date: MAY 13, 1983
Well No: GAOW # 42
API NO: 47 - 105 - 1004
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: HUGHES RIVER
District: CLAY County: WIAT Quadrangle: _____
WELL OPERATOR WAYMAN BUCHANAN DESIGNATED AGENT LEROY HOPKINS
Address _____ Address P.O. BOX 106
KENNA WV. 25248

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 HAS NOT BEEN ~~START~~ COMPLETED.

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.

Wes Mace
Oil and Gas Inspector

Address RT 1 BOX 5
SAND RIDGE
WV 25274

Telephone: 695-0112/2024

RECEIVED
MAY 18 1983

OIL & GAS DIVISION
DEPT. OF MINES

*Posted
5/21/83*

E-4

Date Sept 7, 19 83

Operator's Well No. Grow 42

API Well No. 47 - 105 - 1004
State County Permit

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: _____

District: Clay County: Wirt Quadrangle: _____

WELL OPERATOR Waymon Buchanan DESIGNATED AGENT Seray Hopkins

Address _____ Address P.O. Box 106
Renna WV 25748

Notice is hereby given that the undersigned authorized oil and gas inspector made a special inspection of the above named well on Sept 7, 19 83.

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 19 83, 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)

RECEIVED
SEP 9 - 1983

OIL & GAS DIVISION
DEPT. OF MINES

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.

Des Mace 01/12/2024
Oil and Gas Inspector

Address _____

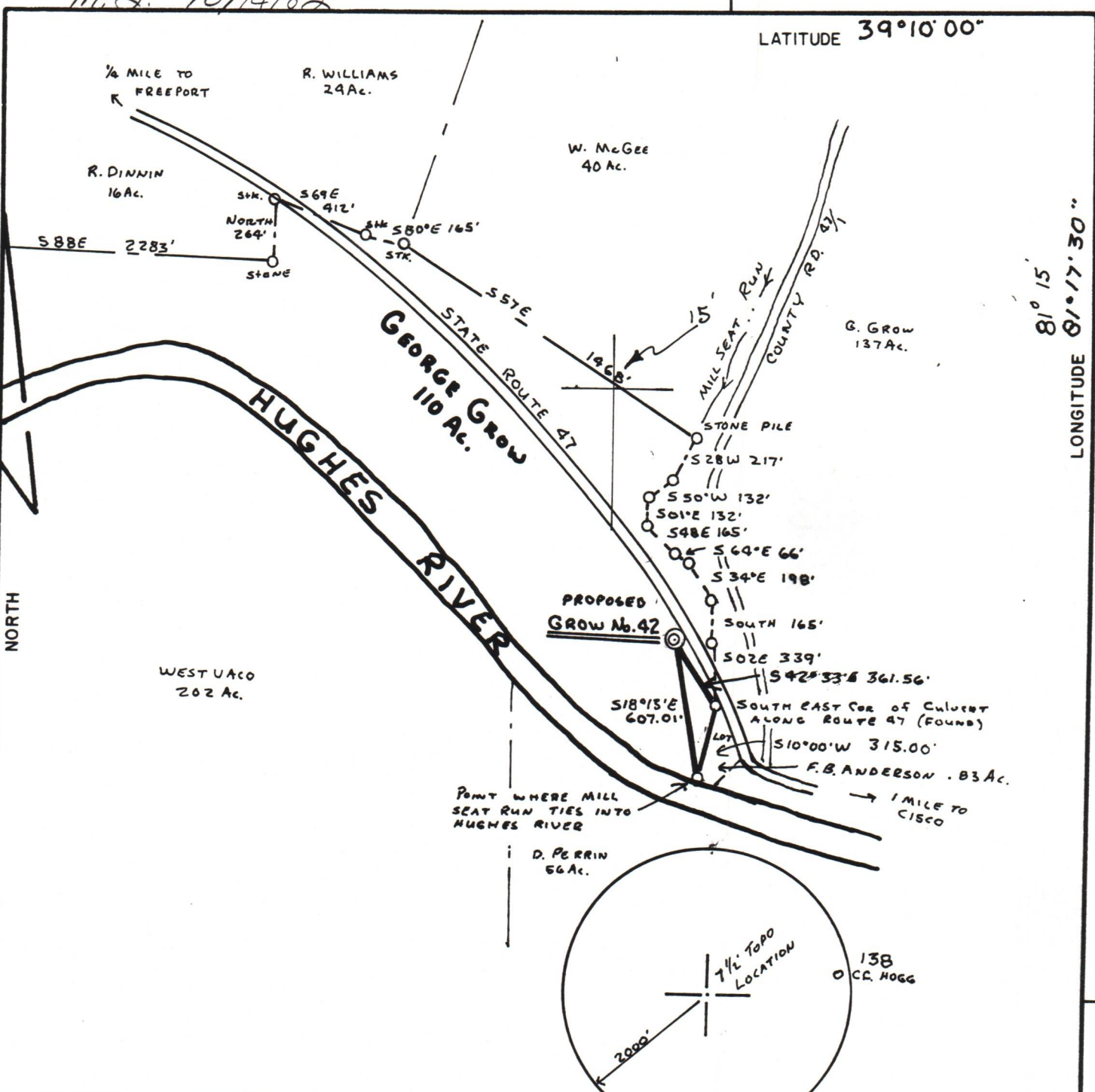
Telephone _____

M.S. 10/14/82

5,200'

LATITUDE 39°10'00"

LONGITUDE 81°17'30"



FILE NO. F.B. 35
 DRAWING NO. B2114
 SCALE 1" = 600'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION R.D. INTERSECTION 648' SOUTH EAST 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) Wayne Buchanan
 G.P.E. _____ L.L.S. 434

PLACE SEAL HERE

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



DATE 10-13, 1982
 OPERATOR'S WELL NO. GROW No. 42
 API WELL NO. 47-105-1004
 STATE COUNTY PERMIT

Department of Mines
 Oil & Gas Division

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 686.5' WATER SHED HUGHES RIVER
 DISTRICT CLAY COUNTY WIRT
 QUADRANGLE PETROLEUM (7.5')
 SURFACE OWNER GEORGE C. GROW ACREAGE 110
 OIL & GAS ROYALTY OWNER GEORGE C. GROW LEASE ACREAGE 110
 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 BRALLIER SHALE ESTIMATED DEPTH 3500'
 WELL OPERATOR WAYMAN BUCHANAN DESIGNATED AGENT JIM P. MORRIS
 ADDRESS SAN ANTONIO, TEXAS ADDRESS CHARLESTON, W.V.

01/12/2024

WIRI - 1004