

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

11/24/2023

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 _____



IV-9
(Rev 8-81)

DATE 11/8/82

WELL NO. Cross #1

State of West Virginia

API NO. 47 - 085 - 6019

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Wayman Buchanan

DESIGNATED AGENT Jim Morris

Address San Antonio, Texas 78205

Address People's Bldg., Charleston, WV 25301

Telephone 304-345-6631

Telephone 304-345-6631

LANDOWNER Ray and Patty Cross

SOIL CONS. DISTRICT Little Kanawha

Revegetation to be carried out by Wayman Buchanan (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: 11-15-82

(Date)

Jarrett Newlon
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Culverts (A)
Spacing see sketch- minimum 12" I. D.
Page Ref. Manual 2-7

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

Structure Drainage Ditch (B)
Spacing Earthen- Beside road
Page Ref. Manual 2-12

Structure Rip-Rap (2)
Material Rock
Page Ref. Manual N/A 2-9

Structure Ditch Relief Cross Drains (C)
Spacing 68 feet apart
Page Ref. Manual 2-7

Structure RECEIVED (3)
Material NOV 16 1982
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.

OIL & GAS DIVISION
DEPT. OF MINES

REVEGETATION

Treatment Area I

Treatment Area II

* Lime Three (3) Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch Hay-----2 Tons/acre
Seed* KY-31 35 lbs/acre
Perennial Rye 10 lbs/acre
Ladino Clover 5 lbs/acre

Lime Three (3) Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch Hay-----2 Tons/acre
Seed* KY-31 35 lbs/acre
Perennial Rye 10 lbs/acre
Ladino Clover 5 lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount. 11/24/2023

* According to PH test

PLAN PREPARED BY Upshur Agency, Inc.

ADDRESS P.O. Box 326


Buckhannon, WV 26201


PHONE NO. 472-6992

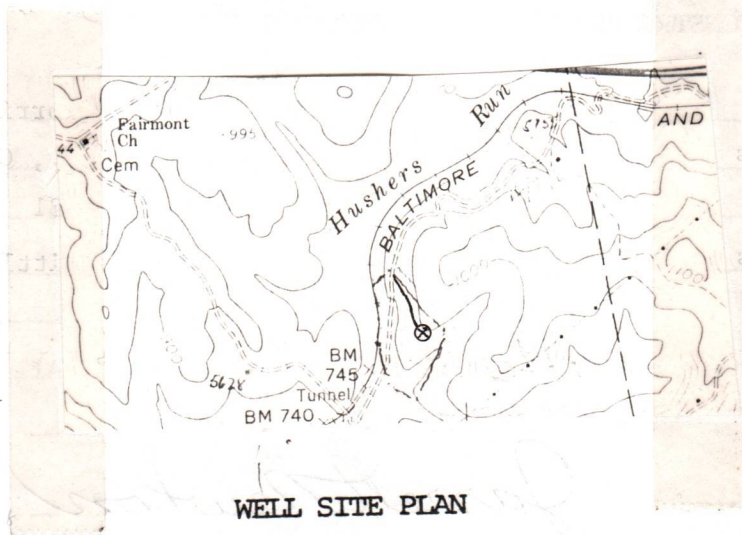
NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

ATTACH OR PHOTOCOPY SECTION OF
INVOLVED TOPOGRAPHIC MAP.
QUADRANGLE ELLENBORO

LEGEND










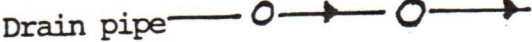

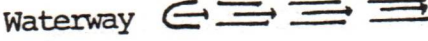
Well Site 

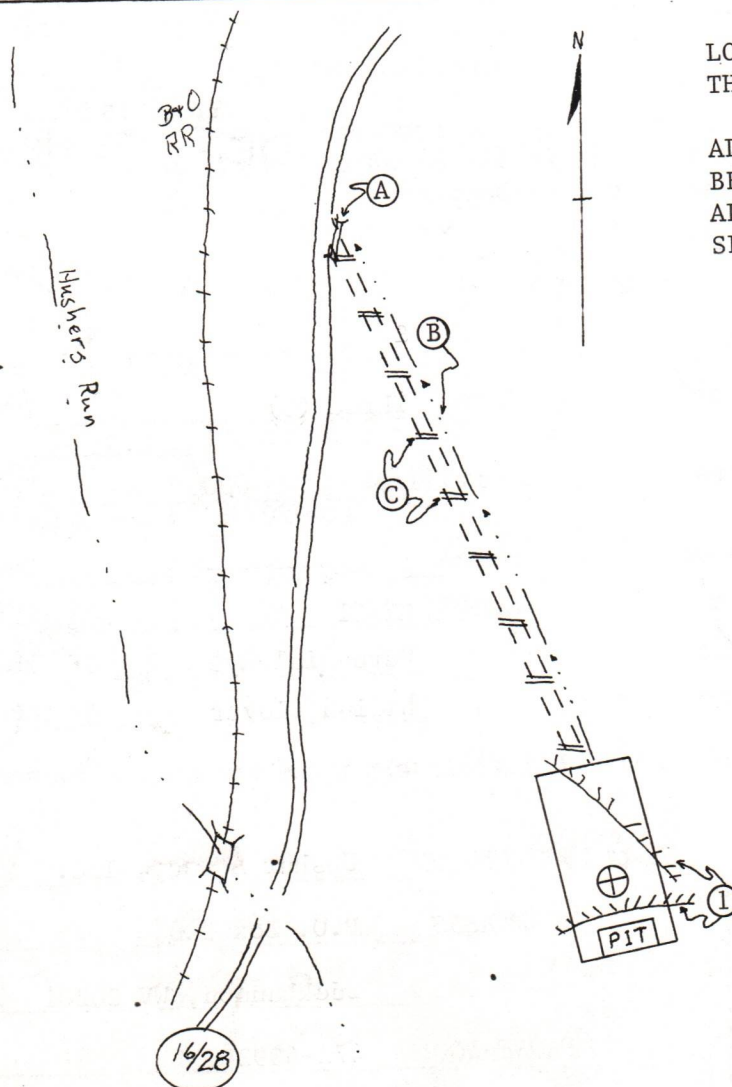
Access Road 



Sketch to include well location, existing access road, roads to be constructed, wellsite, 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 	Wet spot 
Planned fence 	Building 
Stream 	Drain pipe 
Open ditch 	Waterway 



LOCATION AND ROAD TO SCALE 1"=200'
THE WELL LOCATION IS IN TIMBER.

ALL BRUSH AND DEBRIS ARE TO BE REMOVED
BEFORE EARTHWORK BEGINS.
ALL SLOPES AND BANKS ARE TO BE ON 2:1
SLOPES OR LESS WHEN POSSIBLE.

11/24/2023

RECEIVED
AUG 5 - 1985



DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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

This is to acknowledge that the wells listed on the reverse of this form are hereby transferred from Wayman W. Buchanan (the transferor) to Pure Energy Resources, Inc. (the transferee).

The transferee by this document is accepting all responsibility for compliance with the provisions of Chapter 22 Article 4 of the West Virginia Code and all rules and regulations promulgated thereunder, for the listed wells.

The transferee's designated agent (name) Richard W. Jividen, (address) Box 93A, Robertsburg, West Virginia 25172 is on file with the Office of Oil and Gas.

The transferee has bonded the said wells by securities, cash, or surety (circle one) bond identified below by amount, effective date, issuing authority, and any identifying number. \$50,000, 9-2-83 Fidelity & Deposit Company of Maryland
Pure Energy Exploration, Wnc. - West Virginia Operator

(Transferee)

By

Its

James W. Deeburger
Vice President

Taken, subscribed and sworn to before me this 29th day of July 1985

Notary Public Laura R. Rishenden

My commission expires February 28, 19 89

(Transferor)

By

Its

Wayman W. Buchanan
Operations Manager

Taken, subscribed and sworn to before me this 23rd day of July 19 85

Notary Public Elizabeth Carmichael

My commission expires 2/11/ 19 87



ELIZABETH CARMICHAEL
NOTARY PUBLIC STATE OF TEXAS
COMMISSION EXPIRES 2-11-87

ACCEPTED THIS 13 DAY OF July, 1985
BY: [Signature]
Director - Division of Oil and Gas

11/24/2023

Auto

API (Permit) Number

Farm Name

Operator's Well Number

47 - 085 - 5337

Chancellor

#1

47-085-6019

Cross

#1

47-085-5726

Dilly

#1

47-085-5801

Dilly

#2

47-085-5400

Hall

#1

47-085-5325

Morton

#1

47-085-5762

Tony Smith

#1



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
Charleston, West Virginia 25311

ARCH A. MOORE, JR.
Governor

Commissioner

This is to acknowledge that the wells listed on the reverse of this form are hereby transferred from Pure Energy Resources (U.S.A.), Inc. (the transferor) to Pure Energy Exploration, Inc. (the transferee).

The transferee by this document is accepting all responsibility for compliance with the provisions of Chapter 22B, Article 1 of the West Virginia Code and all rules and regulations promulgated thereunder, for the listed wells.

The transferee's designated agent (name) Richard W. Jividen, (address) Box 93A, Robertsburg, West Virginia 25172 is on file with the Division of Oil and Gas.

The transferee has bonded the said wells by securities, cash, or surety (circle one) bond identified below by amount, effective date, issuing authority, and any identifying number. Bond No. 6090977 Effective Setpember 2, 1983

\$50,000 Fidelity and Deposit Company of Maryland

(Transferee) Pure Energy Exploration, Inc.

By James W. Seeburger
James W. Seeburger
Its Vice President

Taken, subscribed and sworn to before me this 23rd day of September, 1985

Notary Public Laura R. Richardson

My commission expires February 28, 1989

(Transferor) Pure Energy Resources (U.S.A.), Inc.

By James W. Seeburger
James W. Seeburger
Its Vice President

Taken, subscribed and sworn to before me this 23rd day of September, 1985

Notary Public Laura R. Richardson

My commission expires February 28, 1989

* These wells were purchased by Pure Energy Resources (U.S.A.), Inc. from Wayman W. Buchanan. Thws form transfers all well operating responsibilities to Pure Energy Exploration, Inc., our West Virginia operating company.

ACCEPTED THIS 25 DAY OF 9, 1985

BY: K. Paerber
Director - Division of Oil and Gas

11/24/2023

8. If prior to discovery and production of oil or gas on the leased premises ~~as an 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 ~~as an 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, ~~as an 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.~~

IN WITNESS WHEREOF, this instrument is executed on the date first above written.
 WITNESS:

Ray Cross
 Ray Cross SSN 232-46-8698
Patty Sue Cross
 Patty Sue Cross SSN 233-60-1510

ACKNOWLEDGMENT

COUNTY OF Ritchie STATE OF West Virginia
 I, Ronald L. Wood in and for said
 County, in the State aforesaid, do hereby certify that Ray Cross and wife Patty Sue Cross

personally known to me to be the same person S whose name S subscribed to the foregoing instrument, appeared before me this day in person, and acknowledged that they signed, sealed and delivered the said instrument as their 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 Notary Seal, this 29 day of June A.D. 19 82
 My commission expires 2-8-92



ACKNOWLEDGMENT

COUNTY OF _____ STATE OF _____
 I, _____
 County, in the State aforesaid, do hereby certify that _____

personally known to me to be the same person _____ whose name _____ subscribed to the foregoing instrument, appeared before me this day in person, and acknowledged that _____ signed, sealed and delivered the said instrument as _____ 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 _____ day of _____ A.D. 19 _____
 My commission expires _____

Filed and admitted to record in the office
 of the Clerk of the County Commission of Ritchie
 County, W. Va. [JUL 29 1982]
 19 _____ at _____ o'clock _____ M.
 Book No. 146 Page 624
 Testes: _____
 Clerk (Seal)

RECEIVED
DIVISION OF OIL & GAS
DEPT. OF MINES

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

Perforated 4523' - 4885', 34 holes, treated w/22,000# 20/40 sand, used 90 quality foam, total of 92 bbls fluid, 689,000 SCF nitrogen.

Perforated 4007' - 4334', 29 holes, treated w/22,500# 20/40 sand, total of 94 bbls fluid, 674,000 SCF nitrogen.

Perforated 3376' - 3891', 36 holes, treated w/22,500# 20/40 sand, total of 91 bbls fluid, 536,000 SCF nitrogen.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Red rock & shale			0	372	
Sand			372	415	
Shale			415	675	
Sand			675	752	
Shale			752	896	
Sand			896	934	
Shale			934	1290	
Sand			1290	1315	
Shale			1315	1440	
Sand			1440	1512	
Shale			1512	1600	
Sand			1600	1650	
Shale			1650	1674	
Big Lime			1674	1779	
Big Injun			1779	1804	
Break			1804	1816	
Squaw			1816	1839	
Shale			1839	2185	
Coffee Shale			2185	2208	
Berea			2208	2227	
Shale			2227	4268	
Huron Shale			4268	4567	
Devonian Shale			4567	4980	

(Attach separate sheets as necessary)

WAYMAN W. BUCHANAN

Well Operator

11/24/2023

By: *[Signature]*

Date: July 3, 1985

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

RECEIVED

DEC 28 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 85-6019

Oil or Gas Well _____
(KIND)

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

Drillers' Names _____

Remarks: *Visit - Working on location
Clearing trees and brush proper
Trying to move part of rig on location*

12-21-82
DATE

Samuel W. Hergman
DISTRICT WELL INSPECTOR

11/24/2023

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

RECEIVED

DEC 28 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 85-6019

Oil or Gas Well _____
(KIND)

Company <u>Wayman W. Buchanan</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Roy Cross et ux</u>	16			Kind of Packer _____
Well No. <u>Cross #1</u>	13			
District <u>Grant</u> County <u>Ritchie</u>	10			Size of _____
Drilling commenced <u>12-22-82</u>	8 1/4			
Drilling completed _____ Total depth _____	6 3/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: Visit 10 3/4 surface casing run - cemented in
Rig shut down.

12-23-82
DATE

Samuel N. Hersman
DISTRICT WELL INSPECTOR

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

RECEIVED

DEC 28 1902

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 85-6032

Oil or Gas Well _____
(KIND)

Company Ferrell S. Prior
Address _____
Farm Paula Mullenix
Well No. 4
District Union County Ritchie
Drilling commenced 12-16-82
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 3/8			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 _____

Remarks: Visit - Rig broke down - 2780' deep.

12-23-82
DATE

Samuel M. Hersman
DISTRICT WELL INSPECTOR

11/24/2023

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

RECEIVED

JAN 4 - 1983

INSPECTOR'S WELL REPORT

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Permit No. 85-6019

Oil or Gas Well _____
(KIND)

Company <u>Wayman W. Buchanan</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Ray Cross et al</u>	16			Kind of Packer _____
Well No. <u>Cross # 1</u>	13			
District <u>Grant</u> County <u>Ritchie</u>	10			Size of _____
Drilling commenced <u>12-22-82</u>	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Fredrick Watring C.W. Price Edward Huffman
Clint Kurt Rig # 5 Trd Pusker Rodney Pagton

Remarks: m 12-23-82 Ran 11 joints of 9 5/8 casing
total of 340 foot Ran 150 sacks cement with 3% cc

12-27-82
DATE

Samuel N. Hersman
DISTRICT WELL INSPECTOR

11/24/2023

INSPECTOR'S PERMIT SUMMARY FORM

11-19-82

WELL TYPE _____
ELEVATION 895
DISTRICT GRANT
QUADRANGLE ELLENBORO 7.5
COUNTY RITCHIE

API# 47-085-6019
OPERATOR PURE ENERGY EXPLORATION, INC
TELEPHONE _____
FARM RAY CROSS ETUX
WELL # CROSS #1

SURFACE OWNER _____ COMMENTS _____ TELEPHONE _____
TARGET FORMATION _____ DATE APPLICATION RECEIVED _____

DATE STARTED _____
LOCATION _____ NOTIFIED _____ DRILLING COMMENCED 12-22-82

WATER DEPTHS _____, _____, _____, _____
COAL DEPTHS _____, _____, _____, _____

CASING

Ran 340 feet of 9 5/8" "pipe on 12-23-82 with 150 SACKS fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up

TD _____ feet on _____

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

PLUGGING

Type	From	To	Pipe Removed
			APR 15 1986

Pit Discharge date: _____ Type _____

Field analysis ph _____ fe _____ cl _____

Well Record received _____

Date Released 4-11-86

Samuel M. Hersman
Inspector's signature

11/24/2023

API# 47 085 - 6019

LIST ALL VISITS FOR THIS PERMIT

	DATE	TIME	PURPOSE	COMMENTS
1	12-21-82		Visit - Starting dirt work	
2	12-23-82		Visit Pick up casing report	
3	12-27-82		Visit -	
4	4-10-86		Visit - Make Final Inspection	
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Notes

STATE OF WEST VIRGINIA X
COUNTY OF KANAWHA X

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, MORRIS EXPLORATION COMPANY, having an address of 401 Peoples Building, Charleston, West Virginia, 25301, hereinafter called "Assignor", is the owner and holder of those certain Oil and Gas Leases covering lands in the State of West Virginia, as more particularly described in the schedule of leases attached hereto, marked Exhibit "A", and by reference made a part hereof.

NOW THEREFORE, Assignor, for and in consideration of the sum of Ten and No/100 Dollars (\$10.00) in hand paid by WAYMAN W. BUCHANAN, having an address of 444 Petroleum Commerce Building, San Antonio, Texas, 78205, hereinafter called "Assignee", and subject to further provisions set forth, has sold, assigned, transferred and conveyed and by these presents does sell, assign, transfer and convey unto Assignee all of Assignor's right, title and interest in and to each and all of the Oil and Gas Leases described and referred to upon Exhibit "A", together with all rights thereunder and incident thereto, including any and all personal property located thereon or used in connection therewith.

TO HAVE AND TO HOLD unto Assignee, their successors, legal representatives and assigns, subject to the following reservations and agreements, to-wit:

Assignor hereby excepts from this Assignment and reserves and retains unto Assignor an overriding royalty on the oil and gas (including the respective constituent elements produced with the oil and gas) that may be produced, saved and sold from the land covered by said lease.

- (a) On Oil, Seven and One-half percent (7.5%) of 8/8 of all of that produced and saved, the same to be delivered at the wells or to the credit of Assignor into the pipeline to which the wells may be connected; and

11/24/2023

(b) On gas, including casinghead gas or other gaseous substances produced and sold or used off the premises or in the manufacture of gasoline, or other products therefrom, the market value at the well of Seven and One-half percent (7.5%) of 8/8 of all of the gas sold or used.

This Assigment is made without warrant of title, either express or implied, and is subject to all of the terms, stipulations, covenants and conditions of said Leases.

EXECUTED this 15th day of September, 1982.

(This instrument was prepared by Stephen E. Cain, 401 Peoples Building, Charleston, West Virginia, 25301).

MORRIS EXPLORATION COMPANY
a corporation,

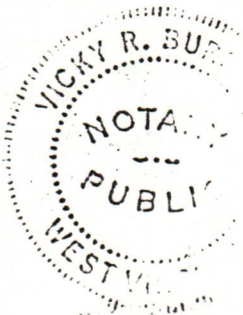
By: Jim P. Morris
Jim P. Morris
President

STATE OF WEST VIRGINIA
COUNTY OF KANAWHA, to-wit:

The foregoing instrument was acknowledged before me this 29th day of September, 1982, by Jim P. Morris, President of MORRIS EXPLORATION COMPANY, a corporation.

My Commission Expires: December 1, 1990

Vicky R. Boudette
NOTARY PUBLIC



"Attached to and made a part of Assignment of Oil and Gas Leases dated September 1, 1982, by and between Morris Exploration Company, as Assignor, and Wayman W. Buchanan, as Assignee."

<u>LEASE NUMBER</u>	<u>LESSOR</u>	<u>LEASE DATE</u>	<u>COUNTY</u>	<u>RECORDED BK/PG</u>	<u>GROSS ACRES</u>
53-10A	James C. Ruble, etux	07/09/82	Wirt	165/440	102.50
18-55D	Mary C. Starcher, single	04/29/82	Jackson	172/507	54.00
18-59E	Mary C. Starcher, single	05/17/82	Jackson	172/509	70.00
18-100	Ona Anderson, single	07/07/82	Jackson	172/505	15.00
18-70A-2	Basil C. Casto, etux	07/13/82	Jackson	172/496	36.50
43-20A	Ann D. Hewitt, etvir	06/16/82	Ritchie	146/628	23.50
43-20B	Sue W. Davis	06/16/82	Ritchie	146/626	23.50
43-21	Ray Cross, etux	06/29/82	Ritchie	146/624	14.00
18-88C	Foster M. Armstong, etux	05/28/82	Jackson	172/494	120.00
18-28C	Leslie M. Smith, etux	07/22/82	Jackson	172/498	59.34
53-11A	Rebecca Phillips, widow	06/05/82	Wirt	165/676	30.19
53-11B	John Chadock, etux	06/05/82	Wirt	165/680	30.19
53-11C	Lucille Hescht, widow	06/05/82	Wirt	165/682	30.19
53-11D	Warren Valentine, widower	06/05/82	Wirt	165/684	30.19
53-11E	Carl Swisher, widower	06/05/82	Wirt	165/686	30.19
53-12A	Grace Kirby, etvir	07/19/82	Wirt	165/688	13.50
53-12B	A. P. Scott, etux	07/10/82	Wirt	165/690	13.50
53-12C	Alice Mills, widow	07/19/82	Wirt	165/694	13.50
18-88D	Ollie Armstrong, widow	05/28/82	Jackson	172/706	120.00
43-22	Christine Savage, etal	07/27/82	Ritchie	147/109	75.50
53-12D	Alma D. Marshall, etal	07/19/82	Wirt	165/692	13.50
53-12E	J. S. Scott, etux	07/19/82	Wirt	165/696	13.50
53-12F	Mabel Vanpelt, etvir	07/19/82	Wirt	165/666	13.50
43-12-1	Mildred Congrove	07/24/82	Ritchie	146/623	
43-12-2	Floral Kincaid, etux	07/28/82	Ritchie	147/106	
53-12G	Inez Gillam, etvir	07/19/82	Wirt	165/670	13.50
53-12H	Irven H. Scott, etux	07/19/82	Wirt	165/668	13.50
53-12I	Geraldine Conway, etvir	07/19/82	Wirt	165/674	13.50
53-12J	Roxie P. Fowler, etvir	07/19/82	Wirt	165/672	13.50
53-13	Jess Ashley, etux	08/02/82	Wirt	165/698	20.00
53-14	Larry Mills, widow	08/03/82	Wirt	165/700	42.00
18-101	Jack H. Hopper, etux	07/06/82	Jackson	172/704	42.98
43-23	Alfred D. Simmons, Agent	07/29/82	Ritchie	147/113	10.00
43-4-1	Tony R. Smith, etux	06/25/82	Ritchie	147/111	
53-15A	Mitchell J. Belt, single	08/09/82	Wirt	165/774	14.50
53-15B	Charles R. Glover, etal	08/05/82	Wirt	165/772	14.50
43-24A	Clifton Valentine, etux	08/06/82	Ritchie	147/372	50.00
37-1A	J. R. Dawkins, etux	05/24/82	Pleasants	177/553	127.50
37-1B	Edward T. Parsons, etux	05/21/82	Pleasants	176/48	127.50
53-12K	Jeanette Paugh, etal	07/19/82	Wirt	165/854	13.50
53-17A	Lillie W. Yost, etvir	08/09/82	Wirt	165/858	37.00
53-17B	Fred H. Pepper, etal	08/09/82	Wirt	165/856	37.00
53-12L	Mildred Blankenship etvir	07/19/82	Wirt	165/852	13.50
43-30B	William O. Boston, etal	08/04/82	Ritchie	147/631	175.00
43-30C	Oris Hanlon, etal	08/11/82	Ritchie	147/633	175.00
43-30D	Carrie Caton, widow	08/04/82	Ritchie	147/791	175.00
53-12M	Georgia L. Flasher, widow	07/19/82	Wirt	165/850	13.50
43-12-5	Helen V. Braden, etvir	07/16/82	Ritchie	147/629	
43-12-3	Rosalie Valentine	07/13/82	Ritchie	147/625	
43-12-4	Earnest E. Vanscoy	07/20/82	Ritchie	147/627	
43-12-6	Mary K. Collins	07/30/82	Ritchie	147/776	
43-12-7	Anna Cooper, etvir	08/25/82	Ritchie	147/778	
43-12-8	Eva P. Joachim, etvir	08/24/82	Ritchie	147/774	
43-38	James F. Beckett, etal	08/13/82	Ritchie	147/780	10.00
43-39	Willis R. Moneypenny etux	06/20/82	Ritchie	145/358	66.25
53-17C	Mildred Bower, etal	08/09/82	Wirt		37.00
53-17D	Donald Criss, etux	08/20/82	Wirt		37.00
53-17E	Sylvia G. Criss, etvir	08/25/82	Wirt		37.00
53-17F	Hazel M. Dulaney, etvir	08/26/82	Wirt		37.00

11/24/2023

Filed and admitted to record in the office
of the Clerk of the County Commission of Ritchie
County, W. Va. SEP 30 1982

19 at 1:20 o'clock P. M

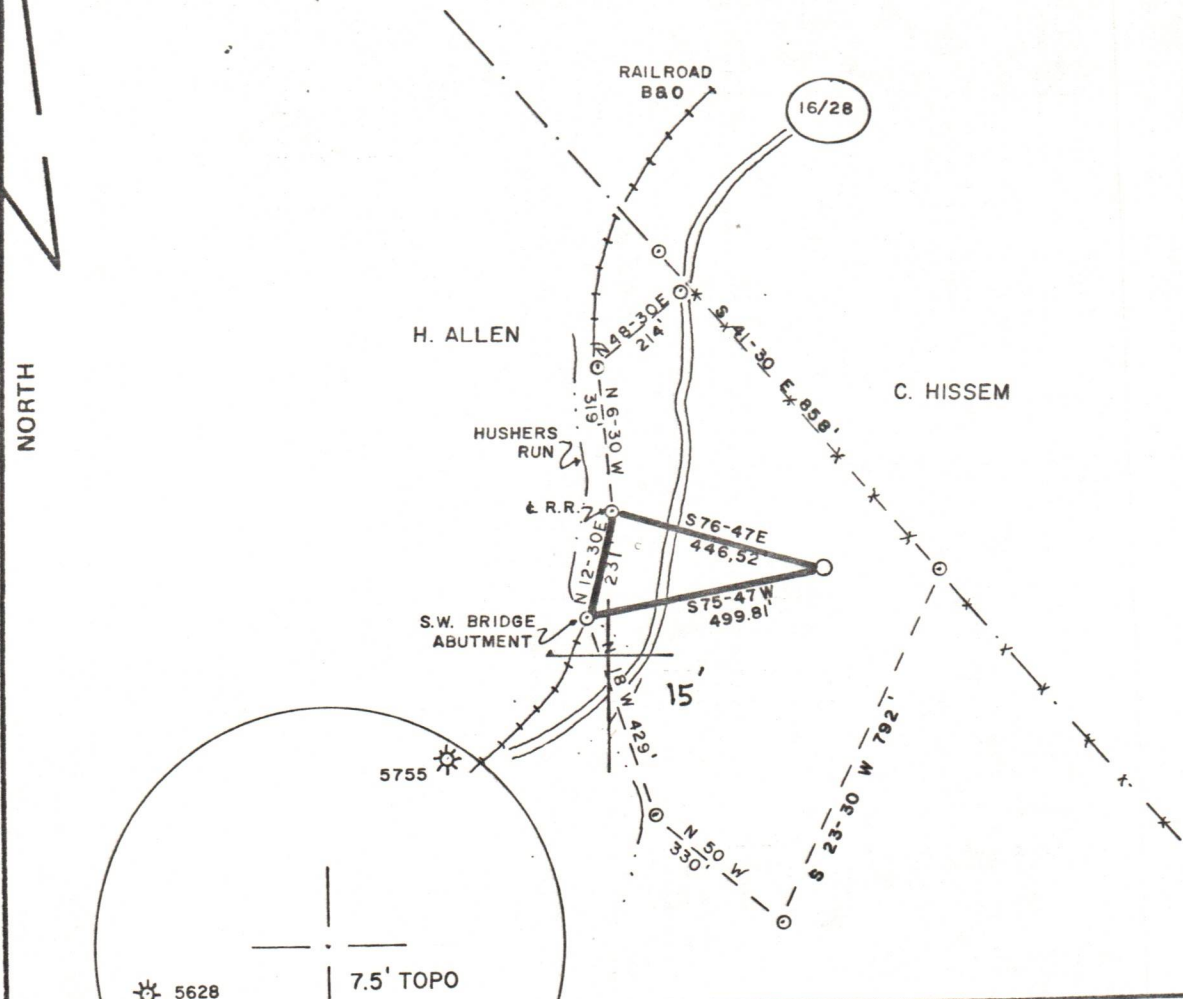
Recorded in LEASE

Book No. 148 Page 875

Witness: Shirley B. Mays Clerk

Clerk

11/24/2023

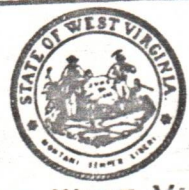


FILE NO. 003-01
 DRAWING NO. 82-01
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION USGS BM 745' NORTH OF B & O R.R. TUNNEL

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) David M. Owen
 R.P.E. _____ L.L.S. 743

PLACE SEAL HERE

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



DATE NOV 2, 1982
 OPERATOR'S WELL NO. Cross No. 1
 API WELL NO. 47-085-6019
 STATE WV COUNTY MITCHELL PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 895' WATER SHED HUSHERS RUN
 DISTRICT Grant COUNTY Ritchie
 QUADRANGLE ELLENBORO
 SURFACE OWNER Ray and Patty Cross ACREAGE 14
 OIL & GAS ROYALTY OWNER Ray and Patty Cross LEASE ACREAGE 14
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Devonian Shale ESTIMATED DEPTH 4700'
 WELL OPERATOR Wayman Buchanan DESIGNATED AGENT Jim Morris
 ADDRESS 444 Petroleum Commerce Bld ADDRESS Peoples Bld
San Antonio TX 78205 Charleston WV 25301

11/24/2023