

RECEIVED

JUL 10 1984



1) Date: June 18, 19 84
2) Operator's Well No. Courtland #3
3) API Well No. 47 - 039 -1608-RED-FRAC
State County Permit

Original Permit Kan 1608

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

APPLICATION FOR A WELL WORK PERMIT

OIL & GAS DIVISION

DEPT. OF MINES

- 4) WELL TYPE: A Oil X / Gas X / B (If "Gas", Production X / Underground storage / Deep / Shallow X)
5) LOCATION: Elevation: 795 Watershed: Meadow Fork of Brier Creek (KC13)
District: Washington 0 County: Kanawha Quadrangle: Charleston, WV 290
6) WELL OPERATOR Badger Oil & Gas Co., Inc. 7) DESIGNATED AGENT Jack C. Dyer
Address P. O. Box 299 3350 Culloden, WV 25510
8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Rodney Dillon
Address Box 30 Scarboro, WV 25917
9) DRILLING CONTRACTOR: Name Dyer Well Service, Inc.
Address P. O. Box 299 Culloden, WV 25510
10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate X
Plug off old formation / Perforate new formation / Other physical change in well (specify)
11) GEOLOGICAL TARGET FORMATION, Brown Shale
12) Estimated depth of completed well, 4000 feet
13) Approximate trata depths: Fresh, 100 feet; salt, 600 feet.
14) Approximate coal seam depths: Is coal being mined in the area? Yes

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15) CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft., New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS. Includes handwritten notes like 'EXISTING' and 'Shale will be shown'.

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-039-1608-RED-FRAC Date July 19, 19 84

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. 8) Prior to the construction of roads, locations and pits for any permitted work.

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires July 19, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Table with columns: Bond (BLANKET 12), Agent (LO), Plat (MH), Casing (T.S.), Fee (4132)

Signature of Administrator, Office of Oil and Gas

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

1) Date: June 18, 1984
 2) Operator's Well No. 47
 3) API Well No. 47
 State: _____ County: _____



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STATE OF WEST VIRGINIA

OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1) LOCATION: District: Washington County, West Virginia
 Elevation: 725
 Well No.: 47
 2) WELL OPERATOR: Badger Oil & Gas Co., Inc.
 Address: P.O. Box 299, Clifton, W.V. 25510
 3) DESIGNATED AGENT: Jack C. Iyer
 Address: P.O. Box 299, Clifton, W.V. 25510
 4) DRILLING CONTRACTOR: Iyer Well Services, Inc.
 Name: Iyer Well Services, Inc.
 Address: P.O. Box 299, Clifton, W.V. 25510
 5) PROPOSED WELL WORK: Plug off old formation / Perform new formation
 6) GEOLOGICAL TARGET FORMATION: Brown shale
 7) ESTIMATED DEPTH OF COMPLETED WELL: 1000 feet
 8) APPROXIMATE TRAP DEPTHS: Fresh: 100 feet, Salt: 600 feet
 9) APPROXIMATE COAL SEAM DEPTHS: Is coal being mined in the area? Yes

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 JUL 19 1984

DEPT. OF MINES
 OIL & GAS DIVISION

Casing or Tubing Type	Size	Grade	Specifications		Footage Intervals		Cement Pile or Sacks (Cubic Feet)
			Weight per ft.	New / Old	For drilling	Left in well	
Conductor	8 1/2"	E 210	21.0	New	34	34	
Production	8 1/2"	E 210	21.0	New	369	369	
Intermediate	6 1/2"	E 210	20.0	New	1356	1356	

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Date(s)
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____
 Reason: _____

Agent: [Signature]	Plant: [Signature]	Casting: [Signature]	Fee: [Signature]
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NOTE: Keep one copy of this permit posted at the drilling location.

1) Date: June 18, 19 84
 2) Operator's
 Well No. Courtland #3
 3) API Well No. 47 - 039 -1608-
 State County Permit

*Original permit # KAN-1608
 Redrill +
 Free.*

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OFFICE OF OIL & GAS
 NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED
 (i) Name Brown & Courtney-Courtland et al.
 Address Odd Fellows Bldg.; 717 Lee St
Charleston, WV 25301
 (ii) Name _____
 Address _____
 (iii) Name _____
 Address _____

5(i) COAL OPERATOR _____
 Address _____
 5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Name _____
 Address _____
 Name _____
 Address _____

TO THE PERSON(S)

- (1) The Ap to be and de cement.
- (2) The pl
- (3) The Co plug a recla

THE REASON WHICH ARE SUMMAR (FORM IV-2(B)) OR ACTION AT ALL.

Take notice erator proposes for a Well Work Department of Mi and depicted on Construction and by hand to the p before the day o

- 6) EXTRACTION RIG
 Check and prov Included is I hold t
 The require
- 7) ROYALTY PROVIS
 Is the right t or other contr for compensati to the volume

If the you may use Affidavit Form IV-50.

P 88 079 706
 RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED-- NOT FOR INTERNATIONAL MAIL
 (See Reverse)

Sent to	Courtland Land Co. Brown & Courtney
Street and No	Odd Fellows Bldg. 717 Lee Street
P.O., State and ZIP Code	Chas., WV 25301
Postage	\$54
Certified Fee	.75
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	.60
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$1.89
Postmark or Date	JUN 18 1984

PS Form 3800, Feb. 1982

LESSEE WITH DECLARATION ON RECORD:

 Address _____

and the following documents:
 r Form IV-4 if the well is drilling or other work, s, the proposed casing and m IV-6; and s the well work is only to ment control and for

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 JUL 10 1984

IS REGARDING THE APPLICATION THE COPY OF THE APPLICATION REQUIRED TO TAKE ANY

OIL & GAS DIVISION
 DEPT. OF MINE

the undersigned well op- id accompanying documents and Gas, West Virginia ed on attached Application ilication, the plat, and the r certified mail or delivered circumstances) on or

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 JUL - 3 1984

or contracts by which se side for specifics.)

OIL & GAS DIVISION
 DEPT. OF MINES

upon a lease or lease r any similar provision not inherently related Yes No

If the answer is Yes,

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by

WELL OPERATOR Badger Oil & Gas Co., Inc.

By Jack Dyer
 Its Vice President
 Address P.O. Box 299
Culloden, WV 25510
 Telephone (304) 743-8172

this 19 day of June, 1984.
 My commission expires 2/5/1990
Stephen R. Hoyett

09/08/2023

I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LEASE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, 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 § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

I N F O R M A T I O N S U P P L I E D U N D E R C O D E § 22-4-11(d)

I N L I E U O F F I L I N G L E A S E (S) A N D O T H E R C O N T I N U I N G C O N T R A C T (S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>
Courtland Co., et al	RH Adkins	1/8	Ls Bk 130, pg 14
Courtland Co., et al	RH Adkins	1/8	Ls Bk. 151, pg 62
R.H. Adkins, et al	Badger	1/8	copy enclosed (Assignment)



IV-9
(Rev 8-81)

DATE June 18, 1984
WELL NO. Courtland #3
API NO. 47 - 039 - 1608-Red-Frac
Original Permit #1608

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Badger Oil & Gas Co., Inc. DESIGNATED AGENT Jack C. Dyer
Address P. O. Box 299; Culloden, WV Address P. O. Box 299; Culloden, WV
Telephone 743-8172 Telephone 743-8172
LANDOWNER Lawson, Oppenheimer, Brown SOIL CONS. DISTRICT Capitol
Revegetation to be carried out by Capitol Soil Conservation District (Agent)

This plan has been reviewed by CAPITOL SCD. All corrections and additions become a part of this plan: JUN. 26 1984 (Date)
R. C. Alford (SCD Agent) "SEE ATTACHED COMMENTS"

ACCESS ROAD

LOCATION

Structure Temporary Stream Crossing (A)
Spacing As Needed
Page Ref. Manual 2-20-10c (5)
Structure Side Ditches, Culverts (B)
Spacing As Needed
Page Ref. Manual 2-14-7
Structure Side Slopes, Dips (C)
Spacing 3% Grade in Existing Roadbed
Page Ref. Manual 2-15 Table (7) & 2-3-3

Structure Diversion Ditch (1)
Material Earthen
Page Ref. Manual 2-12-5
Structure Pit (2)
Material Earthen
Page Ref. Manual -----OIL & GAS DIVISION
DEPT. OF MINES
Structure Sediment Barrier (3)
Material Straw Bale Dike
Page Ref. Manual 2-16-9

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

OIL & GAS DIVISION
DEPT. OF MINES

Treatment Area I

Lime 2 Tons/acre
or correct to pH 6.5
Fertilizer 500 lbs/acre
(10-20-20 or equivalent)
Mulch HAY - 2 Tons/acre
Seed* KY-31 Fescue 50 lbs/acre

Treatment Area II

Lime 2 Tons/acre
or correct to pH 6.5
Fertilizer 500 lbs/acre
(10-20-20 or equivalent)
Mulch HAY - 2 Tons/acre
Seed* KY-31 Fescue 50 lbs/acre

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

PLAN PREPARED BY Badger Oil & Gas Co., Inc.

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

ADDRESS P. O. Box 299
Culloden, WV 25510
PHONE NO. (304) 743-8172

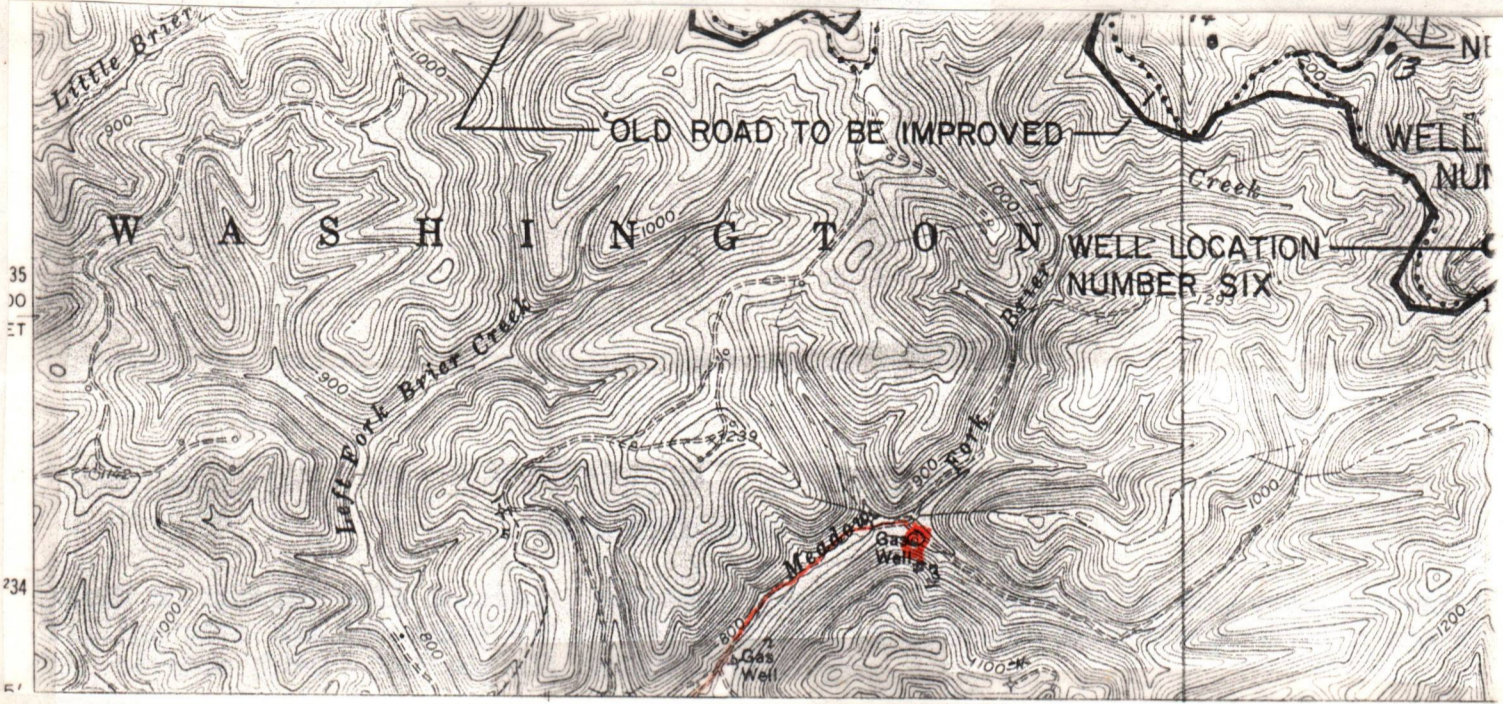
09/08/2023

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP, QUADRANGLE Charleston West

LEGEND

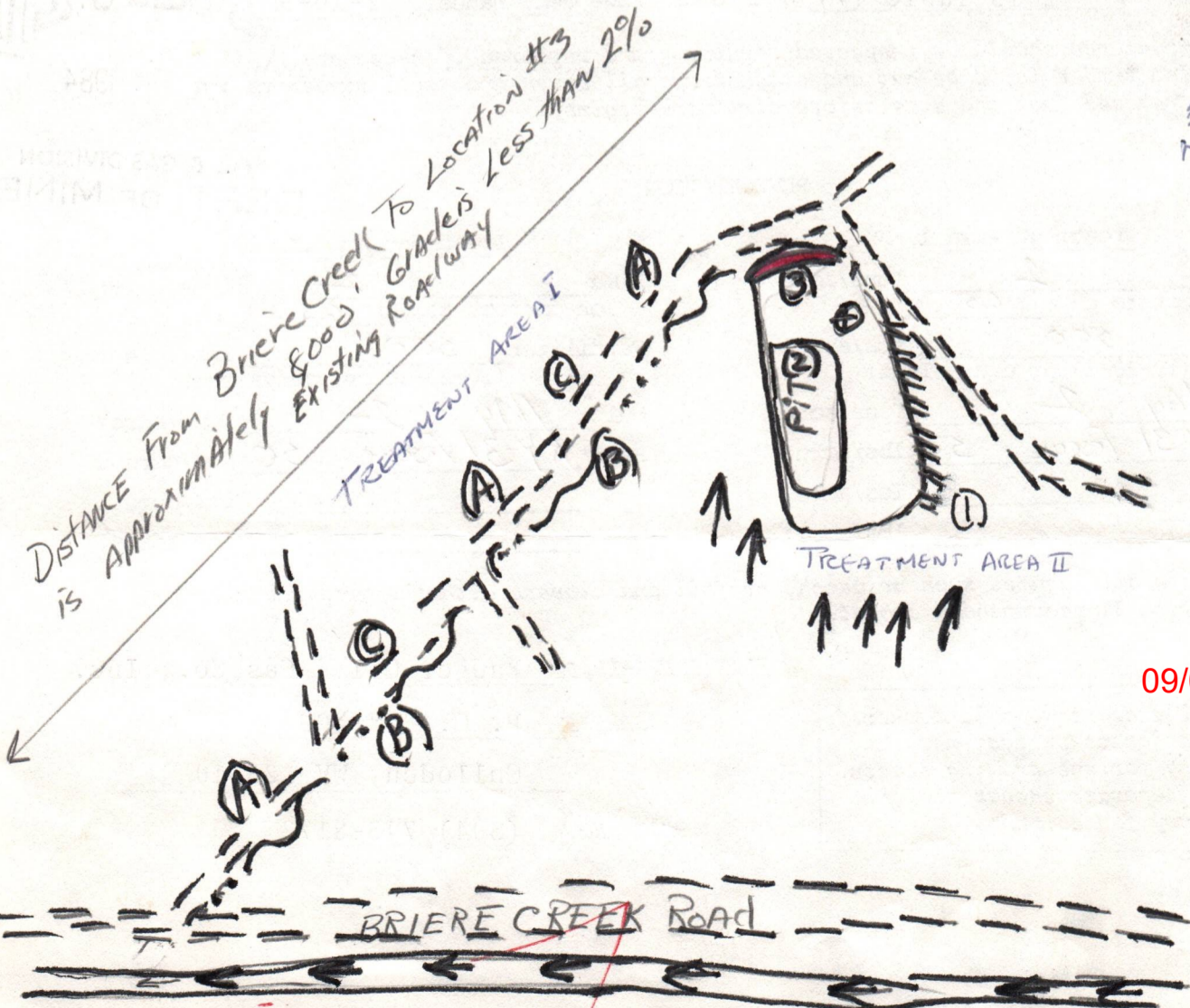
Well Site ⊕

Access Road ———



LEGEND

Property boundary ————	Diversion ————
Road = = = = =	Spring ○ →
Existing fence — x — x —	Wet spot ♀
Planned fence — / — / —	Building ■
Stream ~ ~ ~ ~ ~	Drain pipe — ○ — ○ — ○ —
Open ditch — ···· — ···· — ···· —	Waterway ⊂ ⊃ ⊃ ⊃ ⊃



09/08/2023

1244

ASSIGNMENT

THIS ASSIGNMENT, Dated this the 1 day of JUNE, 1984, by and between R. H. ADKINS, LOUISE SURBER, GEORGE S. HERSCHER, MARY McJUNKIN GRAY, UNITED OIL AND GAS COMPANY, GEORGE W. WALDEN, MAUNA FAE WALDEN, HENRY B. WEHRLE, JR., and RUSSELL S. WEHRLE, Partners doing business as Courtland Gas Company, Parties of the First Part, hereinafter called "Assignors", and BADGER OIL AND GAS COMPANY, INC., a West Virginia Corporation, Party of the Second Part, hereinafter called "Assignee".

W I T N E S S E T H:

That for and in consideration of the sum of Ten (\$10.00) Dollars, cash in hand paid, and other good and valuable consideration not herein recited, the receipt of which is hereby acknowledged, the said Parties of the First Part do hereby SET OVER, SELL, GRANT, CONVEY and ASSIGN unto the said Party of the Second Part all of their right, title and interest in and to that certain lease dated July 1, 1952, and of record in the Office of the Clerk of the County Commission of Kanawha County, West Virginia, in Lease Book 130, page 147, from Courtland Company, et al., to R. H. Adkins, and modified by that certain agreement between the parties aforesaid dated the 1st day of June, 1960, and of record in the aforementioned Clerk's Office in Lease Book 151, page 622, all said instruments covering and relating to that certain tract of land containing 1156 acres, more or less, situate in Washington District, Kanawha County, West Virginia.

This assignment is made subject to the following terms and conditions:

1. This assignment is made subject to the terms and conditions of the said original lease, as modified, as well as Gas Sales Contract Number 1554 with the Consolidated Gas Supply Corp., and any modifications of the same.

2. The Second Party shall pay unto the First Parties the sum of \$29,240.00, cash in hand, at closing.

STEVENS & JACKSON
ATTORNEYS AT LAW
COURT & MANSION
P O BOX 635
HAMLIN WEST
VIRGINIA 25523

(304) 824-5253
756-3627

RECEIVED
JUL 10 1984

OIL & GAS DIVISION
DEPT. OF MINES

RECEIVED
JUL - 8 1984

OIL & GAS DIVISION
DEPT. OF MINES

09/08/2023

ASSIGNMENT

THIS ASSIGNMENT, Dated this the 1 day of JUNE, 1984, by and between R. H. ADKINS, LOUISE SURBER, GEORGE S. HERSCHER, MARY McJUNKIN GRAY, UNITED OIL AND GAS COMPANY, GEORGE W. WALDEN, MAUNA FAE WALDEN, HENRY B. WEHRLE, JR., and RUSSELL S. WEHRLE, Partners doing business as Courtland Gas Company, Parties of the First Part, hereinafter called "Assignors", and BADGER OIL AND GAS COMPANY, INC., a West Virginia Corporation, Party of the Second Part, hereinafter called "Assignee".

W I T N E S S E T H:

That for and in consideration of the sum of Ten (\$10.00) Dollars, cash in hand paid, and other good and valuable consideration not herein recited, the receipt of which is hereby acknowledged, the said Parties of the First Part do hereby SET OVER, SELL, GRANT, CONVEY and ASSIGN unto the said Party of the Second Part all of their right, title and interest in and to that certain lease dated July 1, 1952, and of record in the Office of the Clerk of the County Commission of Kanawha County, West Virginia, in Lease Book 130, page 147, from Courtland Company, et al., to R. H. Adkins, and modified by that certain agreement between the parties aforesaid dated the 1st day of June, 1960, and of record in the aforementioned Clerk's Office in Lease Book 151, page 622, all said instruments covering and relating to that certain tract of land containing 1156 acres, more or less, situate in Washington District, Kanawha County, West Virginia.

This assignment is made subject to the following terms and conditions:

1. This assignment is made subject to the terms and conditions of the said original lease, as modified, as well as Gas Sales Contract Number 1554 with the Consolidated Gas Supply Corp., and any modifications of the same.

2. The Second Party shall pay unto the First Parties the sum of \$29,240.00, cash in hand, at closing.

09/08/2023

3. The Assignors do further SET OVER, SELL, GRANT, CONVEY and ASSIGN all wells, pipelines and whatever interest Parties of the First Part own in the leasehold estate conveyed herein.

4. The Parties of the First Part hereby reserve from this assignment all gas, oil and other substances at or below the top of the uppermost member of the Onondaga Group, or at a depth of or greater than six thousand (6000) feet, whichever is shallower, in and to the lease hereby assigned.

5. The Parties of the First Part do reserve unto themselves a one-sixteenth (1/16th) overriding royalty in and to all the gas, oil and other by-products or minerals produced and sold from the property assigned herein, payable each month, said 1/16th overriding royalty not to be subject to any costs or expenses of production. The Second Parties shall furnish unto First Parties copies of all statements of sales for gas, oil, or other minerals, said statements to be furnished each month and to accompany the payment of overriding royalties.

6. The Party of the Second Part agrees not to permit said lease to lapse, expire or become forfeited for cancellation by the plugging or abandonment of wells or otherwise until after an assignment of said lease, conveying all of the Second Party's right, title and interest therein shall have been tendered free of cost to the Parties of the First Part and refused by them.

7. The Party of the Second Part agrees to drill two (2) test wells on the leased premises within eight (8) months from the date hereof to and through the big injun sand, fracturing and completing the same.

8. The Parties of the Second Part agree to take this assignment subject to the terms and provisions set out herein and all terms of said lease, modifications, gas purchase contracts and other agreements recited herein or of record.

9. The First Parties warrant that all taxes assessed against said leasehold have been paid in full to date, but nothing herein shall be construed as a warranty of title by the Parties of the First Part of the interest hereby conveyed.

09/08/2023

10. The parties hereto agree that any and all sums heretofore escrowed or which shall hereafter be paid on account of gas sales made prior to the date of this agreement shall remain the exclusive property of the Assignors.

WITNESS the following signatures and seals:

R. H. Adkins (SEAL)
R. H. ADKINS

Louise J. Surber (SEAL)
LOUISE SURBER

George S. Herscher (SEAL)
GEORGE S. HERSCHER

Mary McJunkin Gray (SEAL)
MARY McJUNKIN GRAY

UNITED OIL AND GAS COMPANY

By: R. H. Adkins (SEAL)

Its: President

George W. Walden (SEAL)
GEORGE W. WALDEN

Mauna Fae Walden (SEAL)
MAUNA FAE WALDEN

Henry B. Wehrle, Jr. (SEAL)
HENRY B. WEHRLE, JR.

Russell S. Wehrle (SEAL)
RUSSELL S. WEHRLE

BADGER OIL AND GAS COMPANY, INC.

By: [Signature] (SEAL)

Its: Pres.

STATE OF WV,

COUNTY OF Lincoln, to-wit:

The foregoing instrument was acknowledged before me this 09/08/2023
day of April, 19 84, by R. H. ADKINS.

My commission expires June 4, 1991.

EVENS & JACKSON
ATTORNEYS AT LAW
COURT & MANSION
P.O. BOX 635
HAMLIN, WEST
VIRGINIA 25523

(304) 824-5253
756-3627

[Signature]
Notary Public

STATE OF West Virginia,
COUNTY OF Kanawha, to-wit:

The foregoing instrument was acknowledged before me this 29th
day of May, 1984, by LOUISE SURBER.

My commission expires November 23, 1993.

[Signature]
Notary Public

STATE OF W.Va.,
COUNTY OF Kanawha, to-wit:

The foregoing instrument was acknowledged before me this 14th
day of May, 1984, by GEORGE S. HERSCHER.

My commission expires January 25, 1993.

[Signature]
Notary Public

STATE OF W.Va.,
COUNTY OF Kanawha, to-wit:

The foregoing instrument was acknowledged before me this 14th
day of May, 1984, by MARY McJUNKIN GRAY.

My commission expires January 25, 1993.

[Signature]
Notary Public

STATE OF WV,
COUNTY OF Lincoln, to-wit:

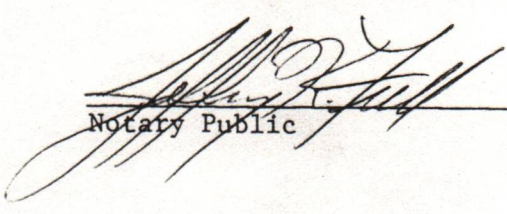
I, Jeffrey K. Full, a Notary Public of said County,
do hereby certify that R.H. Adkins who signed the writing
above bearing date the 26 day of April, 1984, for UNITED OIL

09/08/2023

AND GAS COMPANY has this day in my said County, before me, acknowledged the said writing to be the act and deed of said corporation.

Given under my hand this 26 day of April, 1984.

My commission expires June 4, 1991.

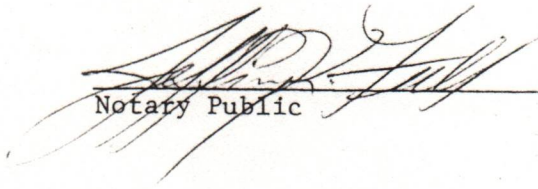

Notary Public

STATE OF WV,

COUNTY OF Lincoln, to-wit:

The foregoing instrument was acknowledged before me this 26 day of April, 1984, by GEORGE W. WALDEN.

My commission expires June 4, 1991.

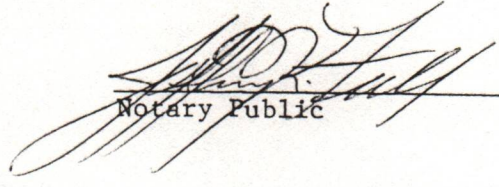

Notary Public

STATE OF WV,

COUNTY OF Lincoln, to-wit:

The foregoing instrument was acknowledged before me this 26 day of April, 1984, by MAUNA FAE WALDEN.

My commission expires June 4, 1991.

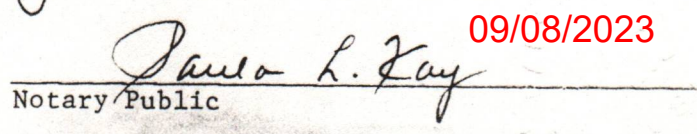

Notary Public

STATE OF W. Va.,

COUNTY OF Kanawha, to-wit:

The foregoing instrument was acknowledged before me this 14th day of May, 1984, by HENRY B. WEHRLE, JR..

My commission expires January 25, 1993.


Notary Public

09/08/2023

TEVENS & JACKSON
ATTORNEYS AT LAW
COURT & MANSION
P.O. BOX 635
HAMLIN, WEST
VIRGINIA 25523

(304) 824-5253
756-3627

STATE OF West Virginia,

COUNTY OF Kanawha, to-wit:

The foregoing instrument was acknowledged before me this 15th
day of May, 1984, by RUSSELL S. WEHRLE.

My commission expires January 25, 1993.

Paula L. Fay
Notary Public

STATE OF W.Va.,

COUNTY OF Cabell, to-wit:

I, Stephen R. Hopt, a Notary Public of said County,
do hereby certify that Michael J. Campbell who signed the writing
above bearing date the 4 day of May, 1984, for BADGER OIL
AND GAS COMPANY, INC. has this day in my said County, before me, acknowledged
the said writing to be the act and deed of said corporation.

Given under my hand this 4 day of May, 1984.

My commission expires 2/5/90.

Stephen R. Hopt
Notary Public

This instrument was prepared by LLOYD G. JACKSON II, Stevens &
Jackson, Attorneys at Law, P. O. Box 635, Hamlin, WV 25523. **09/08/2023**



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Permit No. Kaw-1608

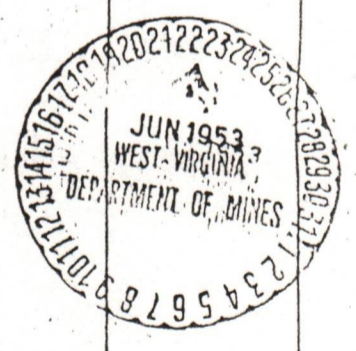
Oil or Gas Well _____

Company Courtland Gas Company
 Address Charleston, W. Va.
 Farm Courtland Acres 4200
 Location (waters) Brier Creek
 Well No. M-3 Elev. 795'
 District _____ County Kanawha
 The surface of tract is owned in fee by Same
 Address _____
 Mineral rights are owned by Same
 Address _____
 Drilling commenced April 30, 1953
 Drilling completed June 15, 1953
 Date Shot _____ From _____ To _____
 With Acidized 2000 Gals.
 Open Flow _____ /10ths Water in _____ Inch
13 /10ths Merc. in 2" Inch
 Volume _____ Cu. Ft.
 Rock Pressure 460 lbs. 24 hrs.
Oil Gas _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packer
Size			
16			Kind of Packer
18			Lead & Rub
10		24	Size of 7"
8 1/4		269	
6 3/4		1356	Depth set
5 8/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____
 COAL WAS ENCOUNTERED AT _____ FEET
 _____ FEET _____ INCHES _____ FEET
 _____ FEET _____ INCHES _____ FEET

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand & Gravel			00	24			
Slate			24	32			
Coal			32	35			
Slate			35	55			
Sand			55	75			
Slate & Shells			75	180			
Sand			180	245			
Slate and Shells			245	400			
Sand			400	455			
Slate			455	465			
Blue Sand H			465	572			
Slate Sand			572	938			
Slate			938	940			
Shell			940	995			
Slate			995	1006			
Sand			1006	1177			
Slate			1177	1180			
Shells			1180	1230			
Red Rock			1230	1235			
Slate and Shells			1235	1258			
Maxon Sand			1258	1293			
Little Lime			1293	1328			
Pencil Cave			1328	1333			
Big Lime			1333	1517 1/2			
Red Injun			1517 1/2	1560			
Slate and Shells			1560	1563			
Total Depth				1563			



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OIL & GAS DIVISION
DEPT. OF MINES

09/08/2023



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State of West Virginia
Department of Mines
Oil and Gas Division

Date August 25, 1984
Operator's Well No. Courtland #3
Farm Courtland
API No. 47-039-1608 Red Frac

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

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

LOCATION: Elevation: 795' Watershed Meadow Fk. of Brier Creek
District: Washington County Kanawha Quadrangle Chas., 41V

COMPANY Badger Oil & Gas Co., Inc.
ADDRESS P.O. Box 299; Culloden, WV 25510
DESIGNATED AGENT Jack Dyer, Jr.
ADDRESS P.O. Box 299; Culloden, WV 25510
SURFACE OWNER Lamon, Appomattox, Brown
ADDRESS Old Fullow's Bldg. 717 Lee St; Chas, WV 25301
MINERAL RIGHTS OWNER Brown & Courtney
ADDRESS Old Fullow's Bldg. 717 Lee St, Chas, WV 25301
OIL AND GAS INSPECTOR FOR THIS WORK Jerry Helcomb ADDRESS Hamlin, WV
PERMIT ISSUED 7-19-84
DRILLING COMMENCED 7-20-84
DRILLING COMPLETED 7-25-84

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	24	24	to surface
9 5/8			
8 5/8	269	269	80 sks
7	1356	1356	80 sks?
5 1/2			
4 1/2	1585	1585	110 sks
3			
2			
Liners used			

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

GEOLOGICAL TARGET FORMATION Big Injun Depth 1535-1574 feet
Depth of completed well 1609 feet Rotary ___ / Cable Tools
Water strata depth: Fresh 220 feet; Salt 1100 feet
Coal seam depths: 32 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth 1535-1574 feet
Gas: Initial open flow Show Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow 385 Mcf/d Final open flow ___ Bbl/d

Time of open flow between initial and final tests 8 hours
Static rock pressure 395 psig (surface measurement) after ___ 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

KAN - 1608

09/08/2023

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

Perfs 1535-40 6
1545-50 6
1564-68 5
1572-74 3

Fracture

360,000 SCFN₂
149 BBL H₂O
30,000 lbs. 20/50 sand
500 gal. 15% HCL

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand + Gravel			0	24	
Slate			24	32	
Coal			32	35	
Slate			35	55	
Sand			55	75	
Slate + Shells			75	180	
Sand			180	245	
Slate + Shells			245	400	
Sand			400	455	
Slate			455	465	
Blue Sand			465	572	
Slate Sand			572	938	
Slate			938	940	
Shell			940	995	
Slate			995	1006	
Sand			1006	1177	
Slate			1177	1180	
Shells			1180	1230	
Red Rock			1230	1235	
Slate + Shells			1235	1258	
Maxon Sand			1258	1293	
Little Limestone			1293	1328	
Pencil Cave			1328	1333	
Big Limestone			1333	1517 1/2	
Big Unconformity			1517 1/2	1560	
Slate + Shells			1560	1609	
Total Depth				1609	

(Attach separate sheets as necessary)

Badger Oil & Gas Co., Inc.
Well Operator

By: [Signature] 09/08/2023
Date: August 25, 1984

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

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OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 039-1608-FRAC

Oil or Gas Well _____
(KIND)

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

Drillers' Names SKEENS DRILLING - SPUDDER

Remarks: CLEANING OUT WELL.

7-24-84
DATE

Jerry Hefner
DISTRICT WELL INSPECTOR
09/08/2023

Form 26
2/16/82

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

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

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

Drillers' Names _____

Remarks: _____

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

DISTRICT WELL INSPECTOR 09/08/2023

17-Jan-85

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OIL & GAS DIVISION
DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OFFICE OF OIL AND GAS
CHARLESTON 25305
FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

Company: BADGER OIL & GAS CO
Farm: BROWN & COURTLAND

Well: COURTLAND 3

Permit No. 47- 39-1608-RED-FRAC
County: KANAWHA

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 Casings	-----	-----
15.02	Adequate Coal Casings	-----	-----
15.01	Adequate Production Casings	-----	-----
15.04	Adequate Cement Strength	-----	-----
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:

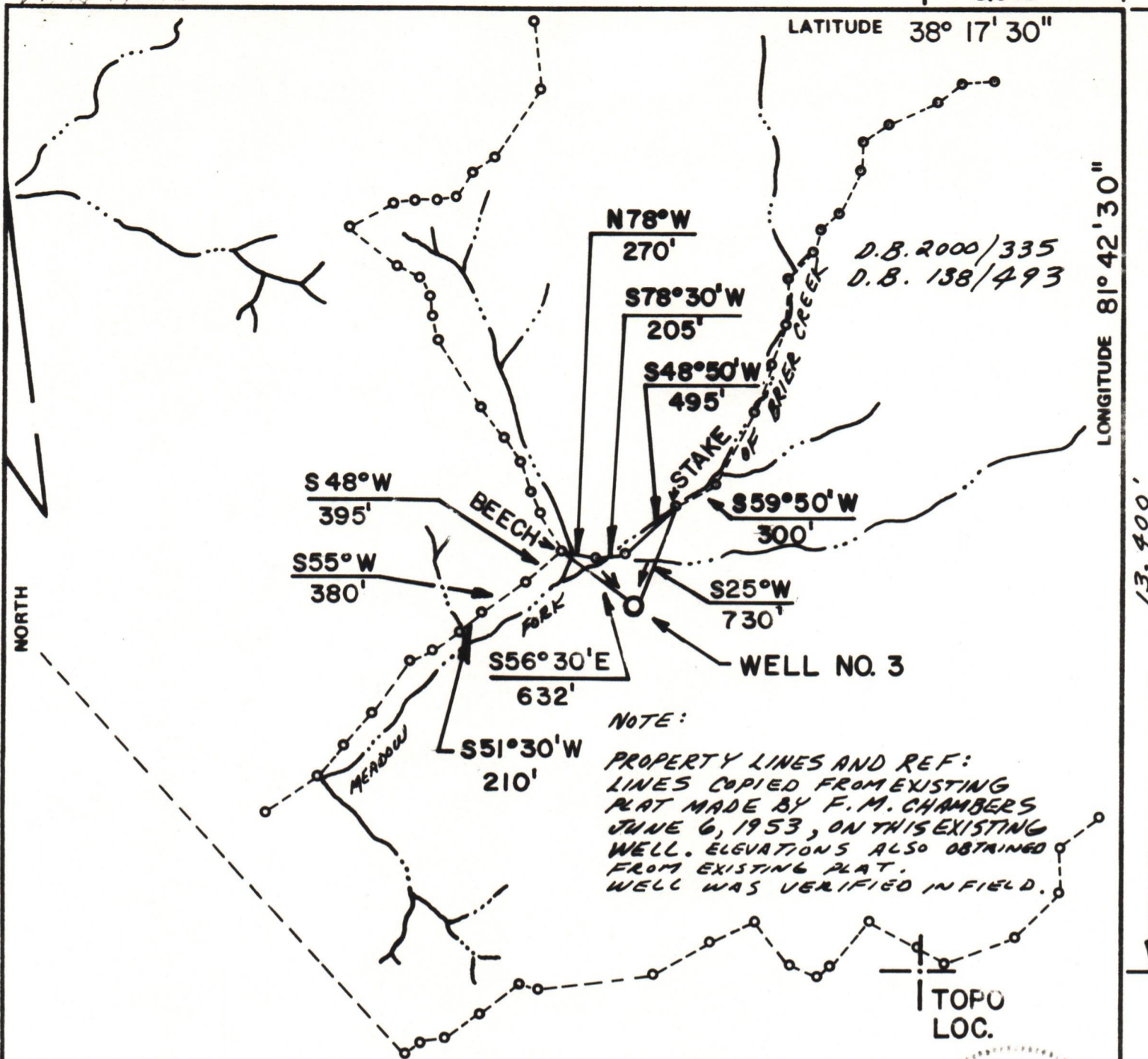
SIGNED Carlos Hively
DATE 4-25-85

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. L. ...

Administrator
May 2, 1985

Date



NOTE:
 PROPERTY LINES AND REF:
 LINES COPIED FROM EXISTING
 PLAT MADE BY F. M. CHAMBERS
 JUNE 6, 1953, ON THIS EXISTING
 WELL. ELEVATIONS ALSO OBTAINED
 FROM EXISTING PLAT.
 WELL WAS VERIFIED IN FIELD.

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF
 ACCURACY 1:200
 PROVEN SOURCE OF
 ELEVATION SEE NOTE
ABOVE

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 REGU-
 LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
 MENT OF MINES.
 (SIGNED) Albert J. Miller
 R.P.E. _____ L.L.S. NO. 513



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



DATE MAY 31, 19 84
 OPERATOR'S WELL NO. 3
 API WELL NO. _____
47 039 - 1608-Red-Frac.
 STATE COUNTY 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 795 WATER SHED MEADOW FORK OF BRIER CREEK
 DISTRICT WASHINGTON COUNTY KANAWHA
 QUADRANGLE CHARLESTON, W.V.
 SURFACE OWNER LAUSON, OPPENBEIMER, BROWN ACREAGE 1156
 OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE 1156

PROPOSED WORK: DRILL _____ CONVERT _____ DRILL DEEPER REDRILL _____ FRACTURE OR
 STIMULATE PLUG OFF OLD FORMATION _____ PERF. ATE NEW
 FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
09/08/2023

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION BROWN SHALE ESTIMATED DEPTH 4000'
 WELL OPERATOR BADGER OIL & GAS DESIGNATED AGEN. DYER DRILLING CO.
 ADDRESS P.O. BOX 299 ADDRESS P.O. BOX 299
CULLODEN, W.V. 25510 CULLODEN, W.V. 25510