



RECEIVED
JUL 19 1984

OFFICE USE ONLY

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

1) LOCATION: District: WESMONT County: RAVENNA Waterford: SUGARCAMP fork of Striders Creek (K13) B (ft. Cas.) Production: 0.75 Underground status: Deep Shallow

2) WELL OPERATOR: Name: Robney Tailor Address: P. O. Box 30 Scott town, WV 25517

3) OFF & GAS INSPECTOR TO BE NOTIFIED: Name: Robney Tailor Address: P. O. Box 30 Scott town, WV 25517

4) DRILLING CONTRACTOR: Name: Dyer Well Service Address: P. O. Box 309 Clidder, WV 25510

5) OTHER PHYSICAL CHANGES TO WELL (check):
 a) Plug off old formation
 b) Perform new formation
 c) Other physical changes on well (check)

6) APPROXIMATE COLLAR DEPTH: 35 feet
 7) APPROXIMATE TUBING DEPTH: 200 feet
 8) ESTIMATED DEPTH OF COMPLETED WELL: 1550 feet
 9) IS COLLAR BEING MINED IN THE AREA? Yes No

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: _____

| | | | | |
|-------|----------|-----------|--------|-----|
| Found | Abundant | Plentiful | Casing | 150 |
|-------|----------|-----------|--------|-----|

09/08/2023

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Beytora

WELL RECORD

Permit No. KAN-1609

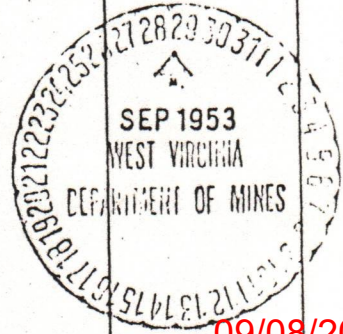
Oil or Gas Well _____
(KIND)

Company Courtland Gas Co.
Address Hamlin, W. Va.
Farm Broun & Courtney Acres 1318
Location (waters) Brier Creek
Well No. 4 Elev. 675'
District Washington County Kanawha
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Broun & Courtney
Charleston, W. Va. Address _____
Drilling commenced June 27, 1953
Drilling completed July 8, 1953
Date Shot _____ From _____ To _____
With Acidized
Open Flow 44/10ths Water in 2 Inch
/10ths Merc. in Inch
Volume 320,000 Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 48' feet feet
Salt water 520 feet feet

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|-------------------|------------------|-----------------------|-----------------------|
| Size | | <u>2x7 Upsidedown</u> | <u>Packer</u> |
| 16 | | | Kind of Packer _____ |
| 18 | | | |
| 10 | | <u>34</u> | Size of _____ |
| 8 1/2 | | <u>241-6</u> | |
| 6 | | <u>1303</u> | Depth set <u>1315</u> |
| 5 3/16 | | | |
| 3 | | | Perf. top _____ |
| 2 | | | Perf. bottom _____ |
| Liners Used | | | Perf. top _____ |
| | | | Perf. bottom _____ |

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

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|-----------------------|-------|--------------|------|--------|-------------------|-------------|---------|
| Surface | | | 00 | 4 | | | |
| Sand & gravel | | | 4 | 28 | | | |
| Slate | | | 28 | 66 | | | |
| Coal | | | 66 | 68 | | | |
| Slate | | | 68 | 96 | | | |
| Coal | | | 96 | 98 | | | |
| Slate | | | 98 | 155 | | | |
| Sand Hard | | | 155 | 210 | | | |
| Slate | | | 210 | 213 | | | |
| Sand | | | 213 | 231 | | | |
| Slate & Shell | | | 234 | 350 | | | |
| Lime Shell | | | 360 | 377 | | | |
| Sand | | | 377 | 400 | | | |
| Slate & Shell | | | 400 | 423 | | | |
| Sand, Blue & hard | | | 423 | 520 | | | |
| Salt Sand | | | 520 | 597 | | | |
| Slate & Shell | | | 597 | 625 | | | |
| Sand | | | 625 | 852 | | | |
| Slate | | | 852 | 870 | | | |
| Lime Shell | | | 870 | 990 | | | |
| Sand | | | 990 | 1120 | | | |
| Red Rock | | | 1120 | 1123 | | | |
| Slate & Shell | | | 1123 | 1175 | | | |
| Red Rock | | | 1175 | 1180 | | | |
| Slate | | | 1180 | 1192 | | | |
| Shell Hard | | | 1192 | 1238 | | | |
| Little Lime | | | 1238 | 1266 | | | |
| Big Lime | | | 1266 | 1280 | | | |
| Big Lime | | | 1280 | 1445 | | | |
| Injin Sand | | | 1445 | 14 | | | |
| Drilled in Injun Sand | | | 14 | | | | |
| Total Depth | | | 1463 | | | | |



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JUL 10 1984

1) Date: June 13, 19 84
2) Operator's Well No. Courtland #4
3) API Well No. 47 - 039 - 1609 -
State County Permit
ORIGINAL Permit RE-47-039-1609 Frac

OIL & GAS DIVISION STATE OF WEST VIRGINIA
DEPT. OF MINES 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 Street Charleston, WV 25310
(ii) Name _____ Address _____
(iii) Name _____ Address _____

5(i) COAL OPERATOR None
Address _____

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

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____ Address _____

P 388 079 707
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED - NOT FOR INTERNATIONAL MAIL

(See Reverse)

TO THE PERSON(S)
(1) The Appl. to be pl...
(2) The plat...
(3) The Cons...
THE REASON WHICH ARE SUMMARY (FORM IV-2(B) OR ACTION AT ALL.
Take notice...
6) EXTRACTION RIG...
7) ROYALTY PROVIS...
\$ Form 3800, Feb. 1982

| | |
|---|---|
| Sent to | <u>Brown & Courtney Courtland Land Co</u> |
| Street and | <u>Odd Fellows Bldg. 717 Lee Street</u> |
| P.O., State and ZIP Code | <u>Chas., WV 25301</u> |
| Postage | <u>\$ 54</u> |
| Certified Fee | <u>.75</u> |
| Special Delivery Fee | |
| Restricted Delivery Fee | |
| Return Receipt Showing to whom and Date Delivered | <u>.60</u> |
| Return Receipt Showing to whom, Date, and Address of Delivery | |
| TOTAL Postage and Fees | <u>0.54 + .75 = 1.29</u> |
| Postmark or Date | <u>JUN 28 1984</u> |

Form and the following documents:

(B) (or Form IV-4 if the well is in the drilling or other work, licable, the proposed casing and

on Form IV-6; and unless the well work is only to nd sediment control and for

RIGHTS REGARDING THE APPLICATION OF THE COPY OF THE APPLICATION RE NOT REQUIRED TO TAKE ANY

Code, the undersigned well op- tion and accompanying documents of Oil and Gas, West Virginia described on attached Application the Application, the plat, and the ared or certified mail or delivered certain circumstances) on or

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JUL - 3 1984

tract or contracts by which reverse side for specifics.)

OIL & GAS DIVISION DEPT. OF MINE

based upon a lease or leases 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.

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

JACK DYER

this 19 day of June, 1984.
My commission expires 21.51, 1990.

Stephen R. Heath Notary Public

WELL OPERATOR Badger Oil & Gas Co., Inc.

By Jack Dyer Its Vice President
Address P. O. Box 299 Culloden, WV 25510
Telephone (304) 743-8187

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 LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) 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.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(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 | R. H. Adkins | 1/8 | Ls Bk. 130, Pg 147 |
| Courtland Co., et al | R. H. Adkins | 1/8 | Ls Bk. 151, Pg 622 |
| R. H. Adkins, et al | Badger | 1/8 | copy enclosed (Assignment) |



JUN. 20 1984

IV-9
(Rev 8-81)

DATE June 13, 1984

WELL NO. Courtland #4

State of West Virginia
Department of Mines
Oil and Gas Division

API NO. 47 - 039 - 1609-Red.-
OLD API No. Frac
47-039-1609

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Badger Oil & Gas Co., Inc. DESIGNATED AGENT Jack Dyer
Address P. O. Box 299; Culloden, WV Address P. O. Box 299; Culloden, WV
Telephone (304) 743-8172 Telephone (304) 743-8172
LANDOWNER Brown & Courtney SOIL CONS. DISTRICT Capitol
Revegetation to be carried out by Capitol Soil Conservation (Agent)

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

ACCESS ROAD
Structure Temporary Stream Crossing (1)
Spacing As Needed
Page Ref. Manual 2-20-10C (5)
Structure Side Ditches, Slopes, Culverts (3)
Spacing As Needed 3% Grade
Page Ref. Manual 2-14-7 (C)
Broad Based
Structure Side Slopes - Dips (C)
Spacing 3% Grade in Existing Roadbed
Page Ref. Manual 2-15 Table (7) & 2-3-3

LOCATION
Structure Diversion Ditch (1)
Material Earth
Page Ref. Manual 2-12-5
Structure Pit (2)
Material Earthen
Page Ref. Manual ----
Structure Sediment Barrier (3)
Material Straw Bale Pike
Page Ref. Manual 2-16-9

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DEPT. OF MINE

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 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

lbs/acre

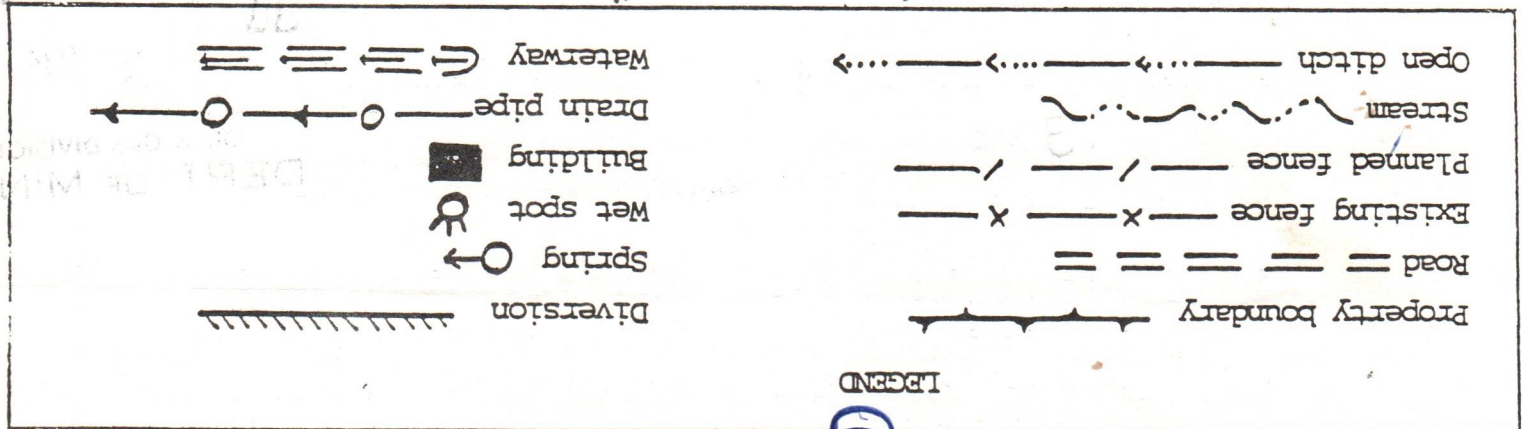
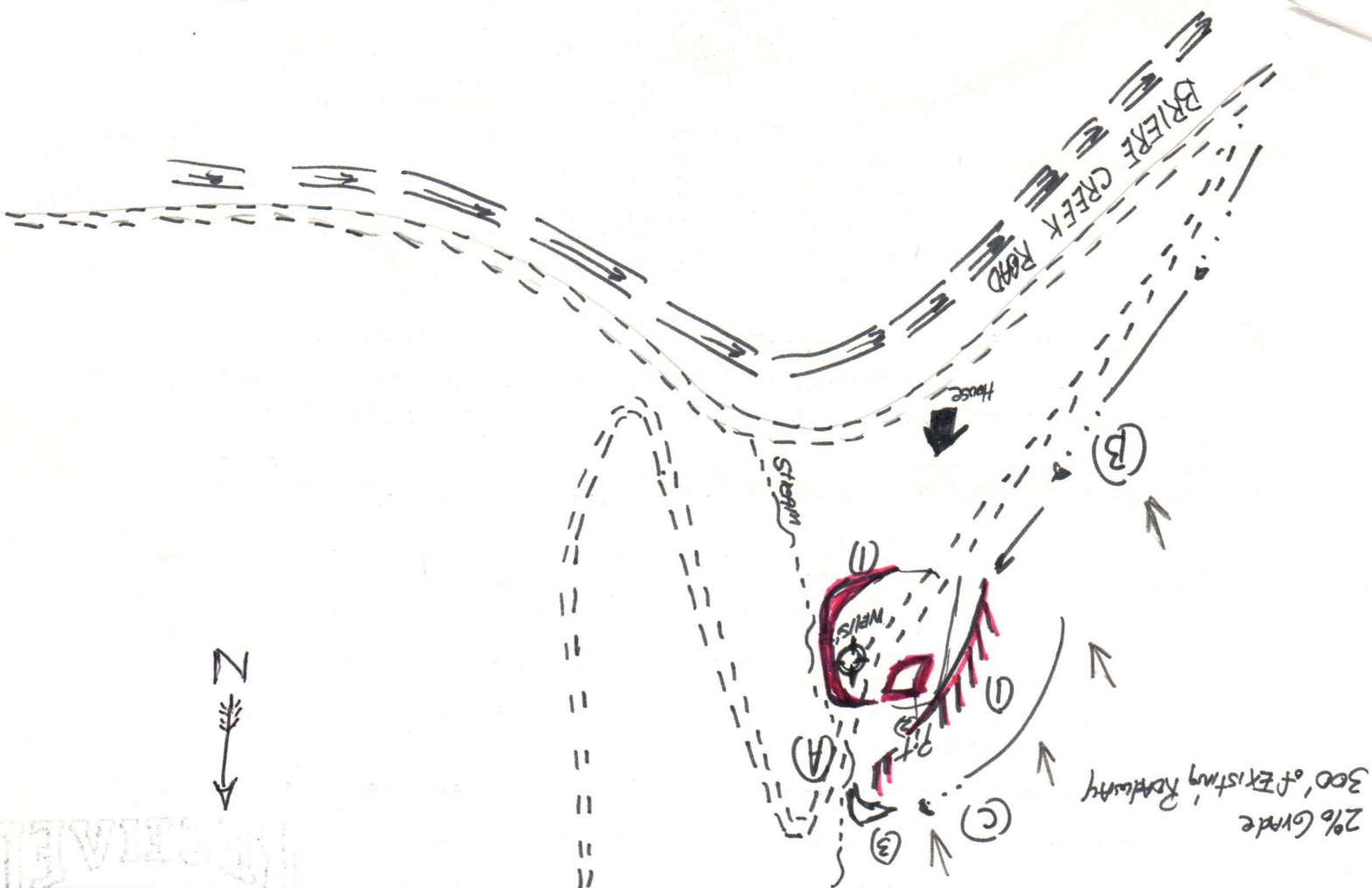
Treatment Area II
Lime 2 Tons/acre
or correct to pH 6.5
Fertilizer 500 lbs/acre
(10-20-20 or equivalent)
Mulch Hay - 2 Tons/acre
Seed* KY-31 Fescue 50 lbs/acre

lbs/acre

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

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

PLAN PREPARED BY Jack Dyer 09/08/2023
ADDRESS Box 299
Culloden WV
PHONE NO. (304) 743-8172



drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.



ATTACH OR PHOTO COPY SECTION OF RACINE, WY

RACINE W Road.

ASSIGNMENT

THIS ASSIGNMENT, Dated this the 1 day of JUNE, 19 84, 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
755-3627

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OIL & GAS DIVISION
DEPT. OF MINES

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JUL -3 1984

09/08/2023

OIL & GAS DIVISION
DEPT. OF MINES

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.

[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

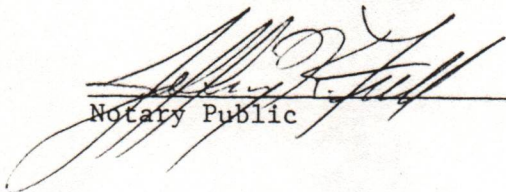
09/08/2023

TEVENS & JACKSON
ATTORNEYS AT LAW
COURT & MANSION
P.O. BOX 635
HAMLIN, WEST
VIRGINIA 25523
(304) 824-5253
756-3627

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.

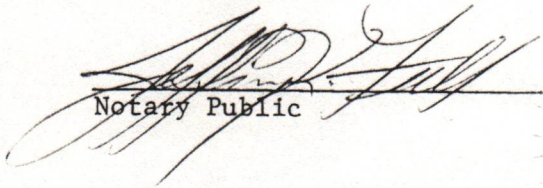

Notary Public

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.

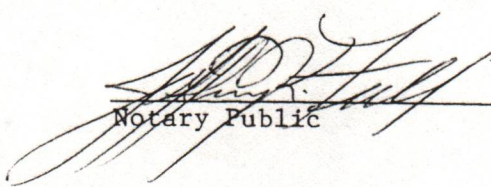

Notary Public

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.

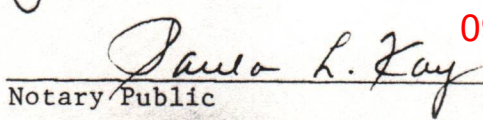

Notary Public

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 Fauquier, 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**

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

(304) 824-5253
756-3627



TV-21
(Rev. 8-01)

State of West Virginia
Department of Mines
Oil and Gas Division

Date July 25 1984
Operator's Well No. Courtland #4
Farm Courtland
API No. 47-039-1609 R10
FRM

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: 675' Watershed SUGARCAMP OF Bear Creek
District: Washington County KANAWHA Quadrangle CHAS NW

COMPANY BADGER OIL & GAS CO. INC.

ADDRESS PO Box 299 Culloden WV 25510

DESIGNATED AGENT JACK DYER, JR.

ADDRESS PO Box 299 Culloden WV 25510

SURFACE OWNER LAWSON, OPPENHEIMER BROWN

ADDRESS 100 Fellow Bldg 717 West CHAS WV 25504

MINERAL RIGHTS OWNER BROWN, Courtney

ADDRESS 100 Fellow Bldg 717 West CHAS WV 25504

LAND AND GAS INSPECTOR FOR THIS WORK JERRY

ADDRESS HAMLIN WV

PERMIT ISSUED 7-19-84

DRILLING COMMENCED 7-28-84

DRILLING COMPLETED 8-14-84

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" | 34 | 34" | To surf |
| 9 5/8 | | | |
| 8 5/8 | 24 1/2 | 24 1/2 | 2550 |
| 7 | 1303 | 1303 | 8000 |
| 5 1/2 | | | |
| 4 1/2 | 1530 | 1530 | 6500 |
| 3 | | | |
| 2 | | | |
| Liners used | | | |

GEOLOGICAL TARGET FORMATION Big Injun Depth 1445-1510 feet

Depth of completed well 1531 feet Rotary ___ / Cable Tools

water strata depth: Fresh 205 feet; Salt 1050 feet

Coal seam depths: 68 Is coal being mined in the area? ___

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth 1495-1504 feet

Gas: Initial open flow 5 Mcf/d Oil: Initial open flow ___ Bbl/d

Final open flow 380 Mcf/d Final open flow ___ Bbl/d

Time of open flow between initial and final tests 8 hours

Static rock pressure 325 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

(Continue on reverse side)

09/08/2023

KAN. - 1609 R10 FRM

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

Perf 1495-1504 19 Holes

FOAM FRAC

359,000 SCF N₂
163 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 |
| Surface | | | 0 | 4 | |
| Sand & Gravel | | | 4 | 28 | |
| Slate | | | 28 | 66 | |
| Coal | | | 66 | 68 | |
| Slate | | | 68 | 96 | |
| Coal | | | 96 | 98 | |
| Slate | | | 98 | 155 | |
| Sand Hard | | | 155 | 210 | |
| Slate | | | 210 | 213 | |
| Sand | | | 213 | 234 | |
| Slate & Shell | | | 234 | 360 | |
| Lime Shell | | | 360 | 377 | |
| Sand | | | 377 | 400 | |
| Slate & Shell | | | 400 | 423 | |
| Sand, Blue & Hard | | | 423 | 520 | |
| Salt Sand | | | 520 | 597 | |
| Slate & Shell | | | 597 | 625 | |
| Sand | | | 625 | 852 | |
| Slate | | | 852 | 870 | |
| Lime Shell | | | 870 | 990 | |
| Sand | | | 990 | 1120 | |
| Red Rock | | | 1120 | 1123 | |
| Slate & Shell | | | 1123 | 1175 | |
| Red Rock | | | 1175 | 1180 | |
| Slate | | | 1180 | 1192 | |
| Shell Hard | | | 1192 | 1238 | |
| Little Lime | | | 1238 | 1266 | |
| Big Lime | | | 1266 | 1280 | |
| Big Lime | | | 1280 | 1445 | |
| Injun Sand | | | 1445 | 1510 | |
| Slate | | | 1510 | 1531 | |
| TOTAL DEPTH | | | | 1531 | |

(Attach separate sheets as necessary)

BADGER Oil & Gas Co. Inc.
Well Operator
By: [Signature] 09/08/2023
Date: Aug 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

RECEIVED
AUG - 1 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES
Oil or Gas Well _____
(KIND)

Permit No. 039-1609

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

Drillers' Names _____

Remarks: LOCATION BUILT

7-24-84
DATE

Jerry [Signature]
09/08/2023
DISTRICT WELL INSPECTOR

12-Dec-84

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

RECEIVED
MAY 1 - 1985
OIL & GAS DIVISION
DEPT. OF MINES

Company: BADGER OIL & GAS CO Permit No. 47- 39-1609
Farm: BROWN & COURTNEY Well: COURTLAND 4 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 Drillings 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 *Carl Stineley*

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.

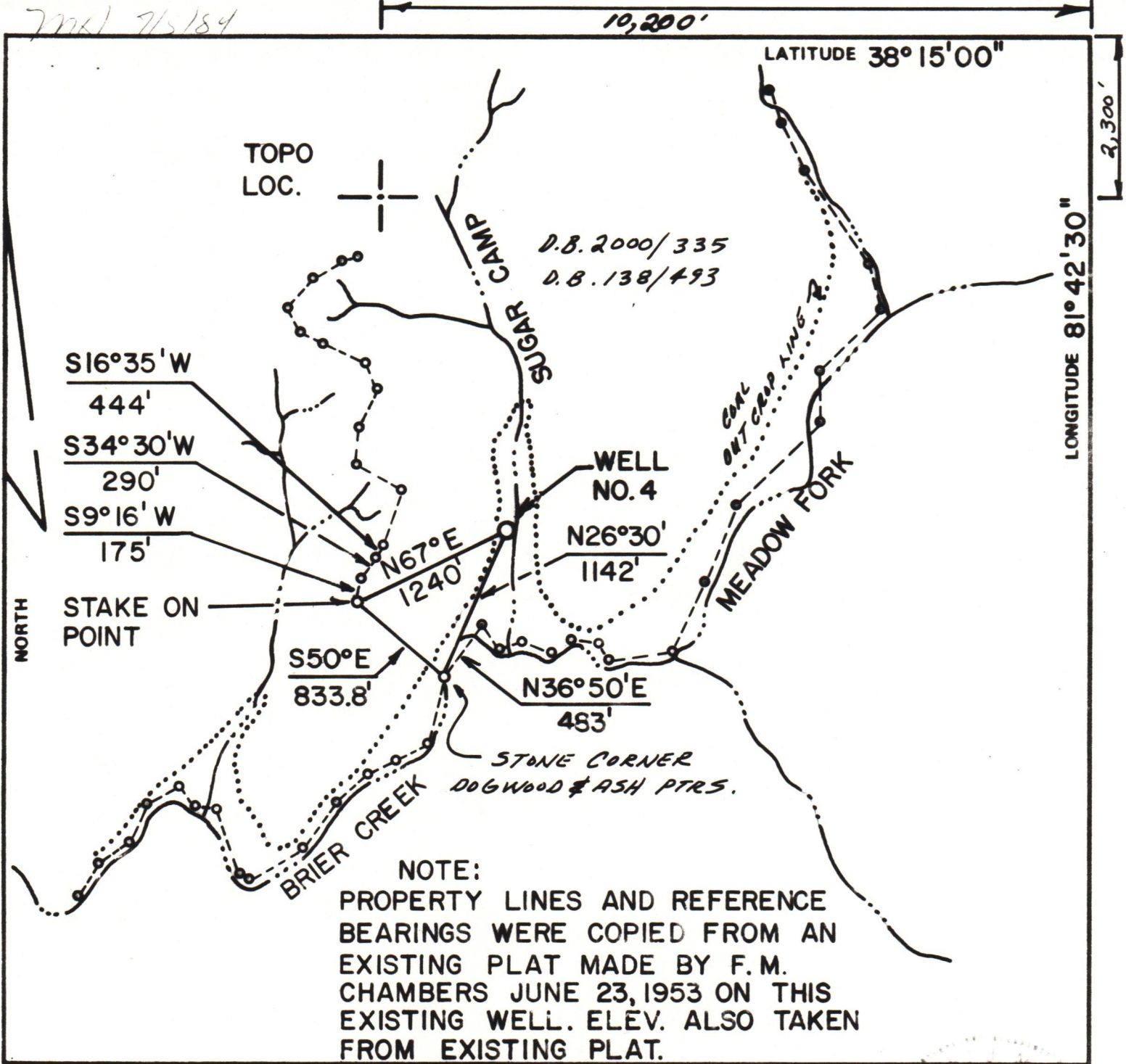
T. H. ...

Administrator-Oil & Gas Division

May 2, 1985

Date

09/08/2023



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT 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. 4
 API WELL NO. _____
47 039 - 1609-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 675 WATER SHED SUGARCAMP FORK OF BRIERE CREEK
 DISTRICT WASHINGTON COUNTY KANAWHA
 QUADRANGLE RACINE, W.V.A.

SURFACE OWNER LAWSON, OPPENBEIMER, BROWN ACREAGE 1156
 OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE 1156
 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 INJUN ESTIMATED DEPTH 2000'
 WELL OPERATOR BADGER OIL & GAS DESIGNATED AGENT DYER DRILLING CO.
 ADDRESS P.O. BOX 299 ADDRESS P.O. BOX 299
CULLODEN, W.V. 25510 CULLODEN, W.V. 25510

09/08/2023