State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator’s Report of Well Work

Farm name: Summers, Donald L.  Operator Well No.: 3611

LOCATION: Elevation: 955’  Quadrangle: West Union
District: West Union  County: Doddridge
Latitude: 1,075 Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude 8,425 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: Dominion Transmission, Inc

<table>
<thead>
<tr>
<th>Casing &amp; Tubing</th>
<th>Used in drilling</th>
<th>Left in well</th>
<th>Cement fill up Cu. Ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address: 445 W Main Street Clarksburg, WV 26301</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agent: Brian Sheppard</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inspector: Tim Bennett</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date Permit Issued: 10/24/2001</td>
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<td></td>
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</tr>
<tr>
<td>Date Well Work Commenced:</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Date Well Work Completed: 12/14/2001</td>
<td></td>
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</tr>
<tr>
<td>Verbal Plugging: N/A</td>
<td></td>
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</tr>
<tr>
<td>Date Permission granted on: N/A</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Rotary X Cable Rig</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Depth (feet): N/A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fresh Water Depth (ft.): N/A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salt Water Depth (ft.): N/A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is coal being mined in area (N/Y)? N</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coal Depths (ft.): N/A</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 2552-2562'
Gas: Initial open flow ______ MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 94 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 12 Hours
Static rock Pressure 280 psig (surface pressure) after 12 Hours

* Comingled w/previous formations

Second producing formation Pay zone depth (ft)
Gas: Initial open flow ______ MCF/d Oil: Initial open flow ______ Bbl/d
Final open flow ______ MCF/d Final open flow ______ Bbl/d
Time of open flow between initial and final tests ______ Hours
Static rock Pressure ______ psig (surface pressure) after ______ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELDBORE.

Signed: [Signature]
By: Brian Sheppard
Date: 02-01-02

MAR 08 2002
COMPANY/WELL NO.: DTI 3611
12/14/01 PERFED AS FOLLOWS: TD AT 4404', TOC AT 1280'
GORDON, 2552 - 2562', 20 HOLES, BD 1728', AVG RATE 13 BPM, AVG PRESS 2104', 302 BBLS, TOT SAND
20,000#, ISIP 1850#
State of West Virginia  
Department of Mines  
Oil and Gas Division

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

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

LOCATION: Elevation: 253'  
Watershed: Middle Island Creek  
District: West Union  
County: Doddridge  
Quadrangle: West Union

COMPANY: Consolidated Gas Transmission Corp.  
ADDRESS: 445 W. Main St., Clarksburg, WV

DESIGNATED AGENT: W. A. Fox  
ADDRESS: 445 W. Main St., Clarksburg, WV

SURFACE OWNER: Donald D. Lenners  
ADDRESS: Middlebourne Star Rt., West Union, WV 26456

MINERAL RIGHTS OWNER: William M. Cain  
ADDRESS: 204 Front St., West Union, WV 26456

OIL AND GAS INSPECTOR FOR THIS WORK: Stephen Casey  
ADDRESS: 232-D St. John's Ave., Weir, WV 26301

PERMIT ISSUED: March 29, 1984

DRILLING COMMENCED: May 22, 1984

DRILLING COMPLETED: June 2, 1984

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

Caging  
Tubing  
Used in  
Left  
Cement  
fill up  
Cu. ft.

Size  
20-16

Cond.  
13-10"

9 5/8

8 5/8

5 1/2

4 1/2

5340

5340

100 skgs.

3

2

Liners

used

GEOLGICAL TARGET FORMATION: Benson & Cedar Creek  
Depth: See tops  
feet

Depth of completed well: 5369 feet  
Rotary X / Cable Tools

Water strata depth: Fresh none feet; Salt  
feet

Coal seam depths: 559-560

Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation: Benson & Cedar Creek  
Pay zone depth: See perf.  
feet

Gas: Initial open flow odor Mcf/d  
Final open flow (179) Mcf/d

Oil: Initial open flow Bbl/d  
Final open flow Bbl/d

Time of open flow between initial and final tests 2 hours

Static rock pressure 1560 psig (surface measurement) after 14 hours, shut in (If applicable due to multiple completion--)

Second producing formation  
Pay zone depth  
feet

Gas: Initial open flow Mcf/d  
Final open flow Mcf/d

Oil: Initial open flow Bbl/d  
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
### DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Fractured with 720 bbls. water, 50,000# sand and 750 gals. acid.

Perforations: 4334 - 4330. Total 8 holes.
Fractured with 450 bbls. water, 30,000# sand and 750 gals. acid.

---

### WELL LOG

<table>
<thead>
<tr>
<th>FORMATION</th>
<th>COLOR</th>
<th>HARD OR SOFT</th>
<th>TOP FEET</th>
<th>BOTTOM FEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pittsburgh Coal</td>
<td></td>
<td></td>
<td>559</td>
<td>560</td>
</tr>
<tr>
<td>Dunkard</td>
<td></td>
<td></td>
<td>835</td>
<td>1025</td>
</tr>
<tr>
<td>Salt</td>
<td></td>
<td></td>
<td>1375</td>
<td>1690</td>
</tr>
<tr>
<td>Maxon</td>
<td></td>
<td></td>
<td>1390</td>
<td>1700</td>
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<tr>
<td>Injun</td>
<td></td>
<td></td>
<td>1883</td>
<td>1995</td>
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<tr>
<td>New Hole</td>
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<tr>
<td>Shale</td>
<td></td>
<td></td>
<td>2010</td>
<td>2135</td>
</tr>
<tr>
<td>Sand &amp; Shale</td>
<td></td>
<td></td>
<td>2135</td>
<td>2550</td>
</tr>
<tr>
<td>Sand</td>
<td></td>
<td></td>
<td>2550</td>
<td>2555</td>
</tr>
<tr>
<td>Sand &amp; Shale</td>
<td></td>
<td></td>
<td>2565</td>
<td>3235</td>
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<tr>
<td>Sand</td>
<td></td>
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<td>3877</td>
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<tr>
<td>Sand &amp; Shale</td>
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<td></td>
<td>3277</td>
<td>4408</td>
</tr>
<tr>
<td>Sand &amp; Shale Breaks</td>
<td></td>
<td></td>
<td>4408</td>
<td>4820</td>
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<tr>
<td>Benson</td>
<td></td>
<td></td>
<td>4820</td>
<td>4950</td>
</tr>
<tr>
<td>Shale</td>
<td></td>
<td></td>
<td>4850</td>
<td>5200</td>
</tr>
<tr>
<td>Sand &amp; Shale</td>
<td></td>
<td></td>
<td>5200</td>
<td>5230</td>
</tr>
<tr>
<td>Shale</td>
<td></td>
<td></td>
<td>5230</td>
<td>5350</td>
</tr>
</tbody>
</table>

**REMARKS**
Including indication of all fresh and salt water, coal, oil and gas.

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(Attach separate sheets as necessary)

Consolidated Gas Transmission Corp.
Well Operator

By: [Signature] Manager of Production
Date: [Signature]

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**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 residuum, encountered in the drilling of a well."
**Oil and Gas Division**

**WELL RECORD**

**Quadrangle:** West Union  
**Permit No.:** 7-07-1-9th-Red

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company</td>
<td>Consolidated Gas Supply Corp.</td>
</tr>
<tr>
<td>Address</td>
<td>105 W. Main St., Clarksburg, WV</td>
</tr>
<tr>
<td>Farm</td>
<td>Edwin Cain</td>
</tr>
<tr>
<td>Acres</td>
<td>07</td>
</tr>
<tr>
<td>Location (waters)</td>
<td>Middle Island Creek</td>
</tr>
<tr>
<td>Well No.</td>
<td>3611</td>
</tr>
<tr>
<td>Elev.</td>
<td>0781</td>
</tr>
<tr>
<td>District</td>
<td>West Union</td>
</tr>
<tr>
<td>County</td>
<td>Doddridge</td>
</tr>
<tr>
<td>The surface of tract is owned in fee by</td>
<td>Dale Moore, Jr.</td>
</tr>
<tr>
<td>Address</td>
<td>Star St., 18 N, West Union, WV 26166</td>
</tr>
<tr>
<td>Mineral rights are owned by</td>
<td>Edwin Cain Heirs</td>
</tr>
<tr>
<td>Address</td>
<td>Various</td>
</tr>
<tr>
<td>Recondition Drilling Commenced</td>
<td>June 20, 1980</td>
</tr>
<tr>
<td>Recondition Drilling Completed</td>
<td>September 8, 1980</td>
</tr>
<tr>
<td>Initial open flow</td>
<td>cu. ft. per day</td>
</tr>
<tr>
<td>bbls.</td>
<td>0</td>
</tr>
<tr>
<td>Final production</td>
<td>cu. ft. per day</td>
</tr>
<tr>
<td>bbls.</td>
<td>0</td>
</tr>
<tr>
<td>Well open</td>
<td>hrs. before test</td>
</tr>
<tr>
<td>RP.</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Ran 2000' of 2'' tubing with packer set at 1578'. 122' of anchor below packer.</td>
</tr>
<tr>
<td></td>
<td>Bailed well.</td>
</tr>
<tr>
<td></td>
<td>Could not get Open Flow Test - Not enough gas.</td>
</tr>
<tr>
<td>Below 559</td>
<td>Feet</td>
</tr>
<tr>
<td>In inches</td>
<td>12</td>
</tr>
<tr>
<td>Coal was encountered at</td>
<td></td>
</tr>
<tr>
<td>Fresh water</td>
<td>None</td>
</tr>
<tr>
<td>Salt Water</td>
<td>Feet</td>
</tr>
<tr>
<td>Producing Sand</td>
<td>Tonn</td>
</tr>
<tr>
<td>Depth</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Formation</th>
<th>Color</th>
<th>Hard or Soft</th>
<th>Top Feet</th>
<th>Bottom Feet</th>
<th>Oil, Gas or Water</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pittsburgh Coal</td>
<td>559</td>
<td>560</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dunkard</td>
<td>835</td>
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<tr>
<td>Salt</td>
<td>1375</td>
<td>1690</td>
<td></td>
<td></td>
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<tr>
<td>Maxon</td>
<td>1690</td>
<td>1700</td>
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</tr>
<tr>
<td>Injun</td>
<td>1883</td>
<td>1995</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Depth</td>
<td></td>
<td>2010</td>
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</tbody>
</table>

Consolidated Gas Supply Corp.  
105 W. Main Street  
Clarksburg, West Virginia

**Received**  
FEB - 4 1981

Manager of Prod.  
February 3, 1981

**MINED DIVISION**  
DEPT. OF MINES  
MAR 9 1981
<table>
<thead>
<tr>
<th>Formation</th>
<th>Color</th>
<th>Hard or Soft</th>
<th>Top Feet</th>
<th>Bottom Feet</th>
<th>Oil, Gas or Water</th>
<th>Remarks</th>
</tr>
</thead>
</table>

Date ___________ 19

APPROVED __________________________ Owner
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

Surface Owner: Dale Moore Jr.
Address: Star Rt. 18, N. West Union, WV 26456

Mineral Owner: Edwin Cain Heirs
Address: Various

Coal Owner: Unknown
Address: None

Coal Operator: None
Address: None

DATE: June 19, 1980

Company: Consolidated Gas Supply Corp.
Address: 445 W. Main St., Clarksburg, WV

Farm: Edwin Cain
Acres: 97

Location (waters):

Well No.: 3611
Elevation: 938'

District: West Union
County: Doddridge

Quadrangle: West Union

INSPECTOR
TO BE NOTIFIED: Paul Garrett
 ADDRESS: 321 Beech St., Clarksburg, WV
PHONE: 622-3871

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee

issue thereto, (or as the case may be) under grant or lease dated April 28, 1952 by Edwin Cain, et al.

made to Carter Oil Company and recorded on the __ day of

19__ in Doddridge County, Book 16 Page 85

NEW WELL DRILL DEEPER REDRILL X RECONDITION

X OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators

were notified of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required

to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days.

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators

or coal owners at their above shown respective address __ day before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOLOGICAL REPORTS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Very truly yours,
(Sign Name)

Well Operator

Consolidated Gas Supply Corporation
445 West Main Street
Clarksburg, West Virginia 26301

*SECTION 3... If no objections are filed or found by the Department of Mines, within said period of ten days from the receipt of
notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting
the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved
and the well operator is authorized to proceed.

Acceptance

L.H. Lane
Well Operator

47-017-1944 REDRILL PERMIT NUMBER
PROPOSED WORK ORDER TO DRILL

DRILLING CONTRACTOR: (If Known) Company Spudder

NAME

ADDRESS

TELEPHONE

ESTIMATED DEPTH OF COMPLETED WELL: 2010

PROPOSED GEOLOGICAL FORMATION: Injun

TYPE OF WELL: OIL GAS X COMB STORAGE DISPOSAL RECYCLING WATER FLOOD OTHER

TENTATIVE CASING PROGRAM:

<table>
<thead>
<tr>
<th>CASING AND TUBING SIZE</th>
<th>USED FOR DRILLING</th>
<th>LIFT IN WELL</th>
<th>CUMULATIVE</th>
<th>ALUMINUM OR STEEL</th>
<th>COIL</th>
<th>1</th>
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<tbody>
<tr>
<td>20 - 16</td>
<td></td>
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<td>9 - 5/8</td>
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<tr>
<td>5 1/2</td>
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<td>4 1/2</td>
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<td>2</td>
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<tr>
<td>Logging</td>
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</tr>
</tbody>
</table>

APPROXIMATE FRESH WATER DEPTHS FERT SALT WATER FEET

APPROXIMATE COAL DEPTHS 550

IS COAL BEING MINED IN THE AREA? No BY WHOM?

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG-1, $100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG-1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/or GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG-1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/or GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG-1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I, the undersigned, Agent for Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title
STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION  
APPLICATION FOR A WELL WORK PERMIT

4) WELL TYPE:  
A Oil  X Gas  
B (If "Gas", Production  X)  
Underground storage  (  ) Deep  Shallow  

5) LOCATION:  
Elevation:  938'  
Watershed:  Middle Island Creek  
District: West Union  
County: Doddridge  
 Quadrangle: West Union  

6) WELL OPERATOR  
Consolidated Gas Transmission  
Address  445 West Main Street  Corp.  
Clarksburg, West Virginia  26301

7) DESIGNATED AGENT  
William A. Fox  
Address  445 West Main Street  
Clarksburg, West Virginia

8) OIL & GAS INSPECTOR TO BE NOTIFIED  
Name  Stephen Casey  
Address  Rt. 2, Box 232-D  
Jane Lew, WV  25378

9) DRILLING CONTRACTOR:  
Name  S. W. Jack Drilling Co.  
Address  Indiana, Pa.

10) PROPOSED WELL WORK:  
Drill  X Drill deeper  X  Redrill  X  Stimulate  
Plug off old formation  X  Perforate new formation  
Other physical change in well (specify)  X  Print all old casing.

11) GEOLOGICAL TARGET FORMATION,  
Reverty  

12) Estimated depth of completed well,  5238  feet
13) Approximate strata depths:  Fresh,  None  feet; salt,  feet.
14) Approximate coal seam depths:  559-560  is coal being mined in the area?  Yes  X

15) CASING AND TUBING PROGRAM

<table>
<thead>
<tr>
<th>CASING OR TUBING TYPE</th>
<th>SPECIFICATIONS FOR DRILLING</th>
<th>FOOTAGE INTERVALS</th>
<th>CEMENT FILL-UP OR SACKS (Cubic feet)</th>
<th>PACKERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conductor 24/11 10 10 - X</td>
<td>600 24/11</td>
<td>600 24/11 To surface</td>
<td></td>
<td>Kinds</td>
</tr>
<tr>
<td>Fresh water</td>
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<td></td>
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</tr>
<tr>
<td>Coal 7 H-40 X</td>
<td>1850</td>
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<tr>
<td>Intermediate</td>
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<td>Production 4 1/2 KR 10.5 X</td>
<td>5335</td>
<td>5335</td>
<td>250 Sks.</td>
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<tr>
<td>Tubing</td>
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<td>Liners</td>
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OFFICE USE ONLY

DRILLING PERMIT

Permit number 47-017-1944-DD  
March 29, 1984

Date

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. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.

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 March 29, 1986

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

See the reverse side of the APPLICANT’S COPY for instructions to the well operator.
**FORAGE**

**LOCATION**
- **Well No.** 3611
- **Located on:** E. Cain
- **District:** West Union
- **County:** Doddridge
- **State:** WV

**DATE**
- **First Work Done:** 7-21-14
- **Rig Completed:** 8-11-14
- **Drilling Completed:** 8-17-14

**CONTRACTORS**
- **Rig Contractor:** B. J. Gillespie
- **Drillers:** M. W. & B. Co. Inc., Bing No. 1
- **Tool Dreammaer:** E. Myer Toothman Best Cain

**FORMATION**

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<tr>
<th>TOP</th>
<th>BOTTOM</th>
<th>Remarks</th>
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<td>560</td>
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**GAS SALT**

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<th>Second Salt</th>
<th>Maxon</th>
<th>Little Lime</th>
<th>Pencil Cave</th>
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<th>Big Injun</th>
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**Packer Record**

8 1/4" Steel
8 1/4 x 1/2 B. H. Packer

**Shooting Record**

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<tr>
<th>DATE</th>
<th>Quart</th>
<th>Top of Well</th>
<th>Bottom of Well</th>
<th>Diameter</th>
<th>Sand</th>
<th>Total Before Shot</th>
<th>Total After Shot</th>
<th>Test Taken</th>
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**Cementing Record**

- Date Cemented: Not Cemented
- Hole Cemented: Site Casing Cemented
- Top Pittsburg Coal: Top Cementing
- Bottom Pittsburg Coal: Amount Cement Used
- Bottom Cementing: Amount Sand Used
- Mr.: Oct 9, 1944 H.B.
- Coal Company on ground when coal was cemented
- Signature of persons who cemented well

**Permit No.: 014-1944**

Approved by: C. H. K. Wilson

Pctmen