



1) Date: Dec. 22, 1983
 2) Operator's Well No. KSF #13
 3) API Well No. 47 - 039 - 3997
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow)
 5) LOCATION: Elevation: 1175.34 Watershed: Bays Fork of Middle Fork of Davis Creek
 District: Loundon County: Kanawha Quadrangle: Charleston, WV
 6) WELL OPERATOR Badger Oil & Gas Co., Inc. 7) DESIGNATED AGENT Jack C. Dyer, Jr.
 Address P. O. Box 299 Address P. O. Box 299
Culloden, WV 25510 Culloden, WV 25510
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Jerry Holcomb Name Dyer Well Service, Inc.
 Address Box 5B Address P. O. Box 299
Indore, WV 25111 587-7299 Culloden, WV 25510
 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) _____
 11) GEOLOGICAL TARGET FORMATION, Injun Weir
 12) Estimated depth of completed well, 2200 feet
 13) Approximate trata depths: Fresh, 200 feet; salt, 800 feet.
 14) Approximate coal seam depths: None Is coal being mined in the area? Yes No

RECEIVED
 DEC 27 1983
 OIL & GAS DIVISION
 DEPT. OF MINES

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	10 3/4	K55	40	X		60	60	Cemented to	xxx fill-up &
Fresh water	8 5/8	K55	38	X		400	400	Circulated	
Coal									Sizes
Intermediate	6 5/8	K55	20	X		1680	1680		
Production	4 1/2		9.5	X		2100	2100	Cemented back	xxxx up hole to
Tubing	1"			X		2100	2100	cover 300'	of 6 5/8 <i>or as req by rules</i>
Liners									Perforations: Top 1900 Bottom 1940

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-039-3997 Date January 19, 1984

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

Bond:	Agent: <u>LS</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>3313</u>
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[Signature]
 Administrator, Office of Oil and Gas

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



OFFICE USE ONLY

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

1) LOCATION: District: Johnson County: Johnson Township: Johnson Elevation: 1275.34 Well No.: 1275.34

2) WELL OPERATOR: Badger Oil & Gas Co., Inc. Address: 1000 Johnson, W. 25210

3) DESIGNATED AGENT: John C. Over, Jr. Address: P.O. Box 208, Johnson, W. 25210

4) DRILLING CONTRACTOR: WEST TANK SERVICES, INC. Address: P.O. Box 208, Johnson, W. 25210

5) OIL & GAS INSPECTOR TO BE NOTIFIED: BERRY HOLDINGS Address: PO Box 88, Johnson, W. 25210

6) PROPOSED WELL WORK: Drill X Re-drill Plug off old formation Refracture new formation

7) GEOLOGICAL INFORMATION: Other physical changes in well (specify):

8) ESTIMATED DEPTH OF COMPLETED WELL: 2200

9) APPROXIMATE COAL DEPTHS: 200

10) APPROXIMATE COAL SEAM DEPTHS: 1000

11) CASING AND TUBING PROGRAM:

Casing or Tubing Type	Size	Depth	Specifications		Remarks
			Weight	Grade	
Conductor	10 1/2"	20	X	20	
Production	6 3/4"	38	X	38	
Intermediate	6 3/4"	20	X	20	
Production	6 3/4"	20	X	20	

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	Follow-up inspection(s)
Well work started	"
Completion of the drilling process	"
Well Record received	"
Reclamation completed	"

OTHER INSPECTIONS

Reason: _____

Reason: _____

02/16/2024

1) Date: Dec. 22, 19 83
2) Operator's Well No. KSF #13
3) API Well No. 47 - 039 - 3997
State County Permit

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 State of West Virginia
Address Attn: Jim Jones Adm.

(ii) Name Charleston, W.V. 25305
Address

(iii) Name
Address

5(i) COAL OPERATOR None
Address

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name None
Address

Name None
Address

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) EXTRACTION RIGHTS

Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas. ON FILE 039-3993
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

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

[Signature]
this 30 day of December, 19 83.
My commission expires 10/7/86 19 86.

Joyce A. McCaffrey
Notary Public, Wayne County,
State of WV

WELL OPERATOR Badger Oil and Gas Co. Inc.
By [Signature]
Its Vic - President
Address Box 299
Culloden, W.V. 25510
Telephone 743-8172

02/16/2024

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.

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 § 2 2 - 4 - 1 1 (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:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book	Page
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02/16/2024



DEC 19 1983

IV-9
(Rev 8-81)

DATE Dec. 15, 1983

WELL NO. KSF #13

State of West Virginia
Department of Mines
Oil and Gas Division

API NO. 47 - 039 - 3997

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Badger Oil & Gas Co., Inc.

DESIGNATED AGENT Jack C. Dyer, Jr.

Address P. O. Box 299, Culloden, WV 25510

Address P. O. Box 299, Culloden, WV 25510

Telephone 743-8172

Telephone 743-8172

LANDOWNER State of West Virginia

SOIL CONS. DISTRICT Capitol

Revegetation to be carried out by Capitol SCD

(Agent)

This plan has been reviewed by Capitol SCD. All corrections and additions become a part of this plan: JAN. 3 1984

(Date)

R. C. Alford
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Cross-drains - New access (A)

Structure Drilling Pit (1)

Spacing 1%-2% slope location adjoins old roadway

Material Earthen

Page Ref. Manual 2-1 thru 2-4 Table I

Page Ref. Manual _____

Structure Damp areas- cross drains (B)

Structure Sediment Barrier (2)

Spacing old roadway - as needed

Material Earth - plastic liner

Page Ref. Manual 2-1, 2-2, 2-3, 2-4 Table I

Page Ref. Manual 2-16

Structure Drainage ditch (C)

Structure _____ (3)

Spacing per sketch on existing road

Material _____

Page Ref. Manual 2-12 & 2-14

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.

REVEGETATION

Treatment Area I

Treatment Area II

Lime 3 Tons/acre
or correct to pH 6.5

Lime 3 Tons/acre
or correct to pH 6.5

Fertilizer 500 lbs/acre
(10-20-20 or equivalent)

Fertilizer 500 lbs/acre
(10-20-20 or equivalent)

Mulch Hay 2 Tons/acre

Mulch Hay 2 Tons/acre

Seed* Ky-31 20 lbs/acre

Seed* KY-31 20 lbs/acre

C Red Fescue 10 lbs/acre

C Red Fescue 10 lbs/acre

crown vetch 10 lbs/acre

crown vetch 10 lbs/acre

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

02/16/2024

PLAN PREPARED BY Jack C. Dyer, Jr.

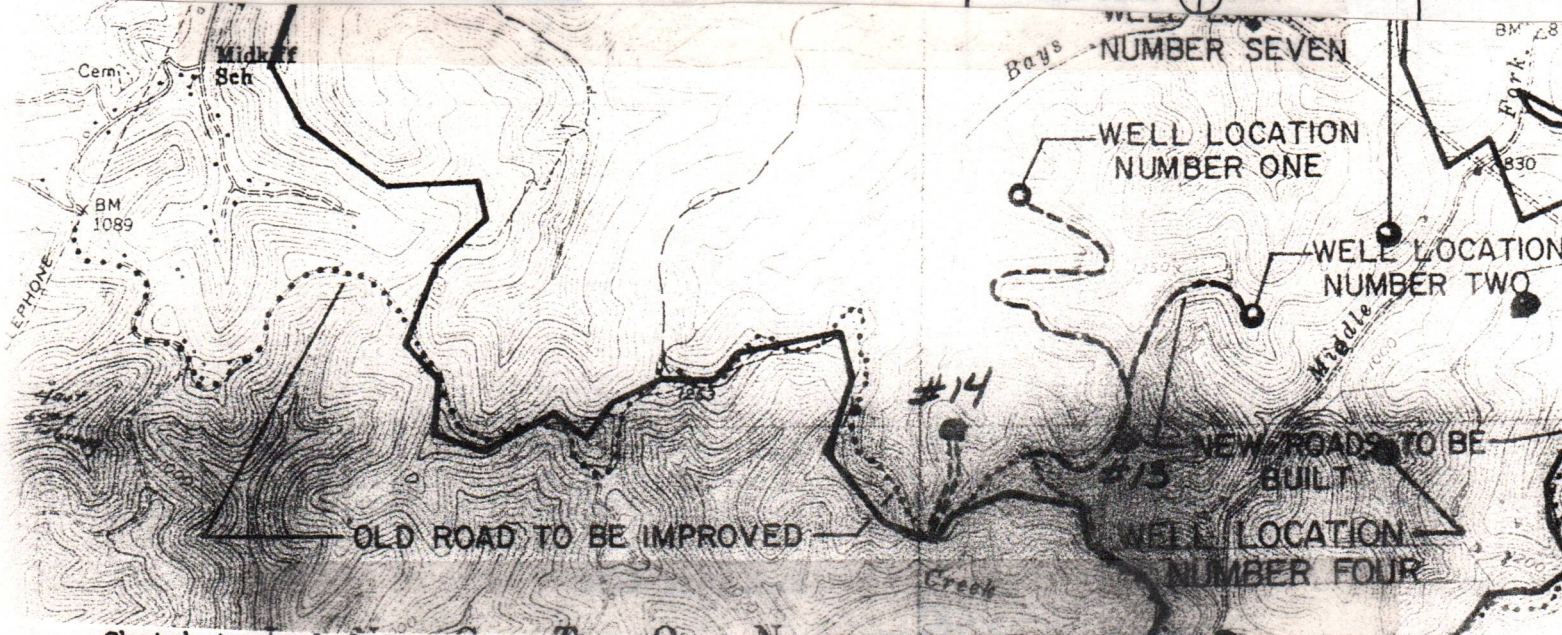
ADDRESS P. O. Box 299

Culloden, WV 25510

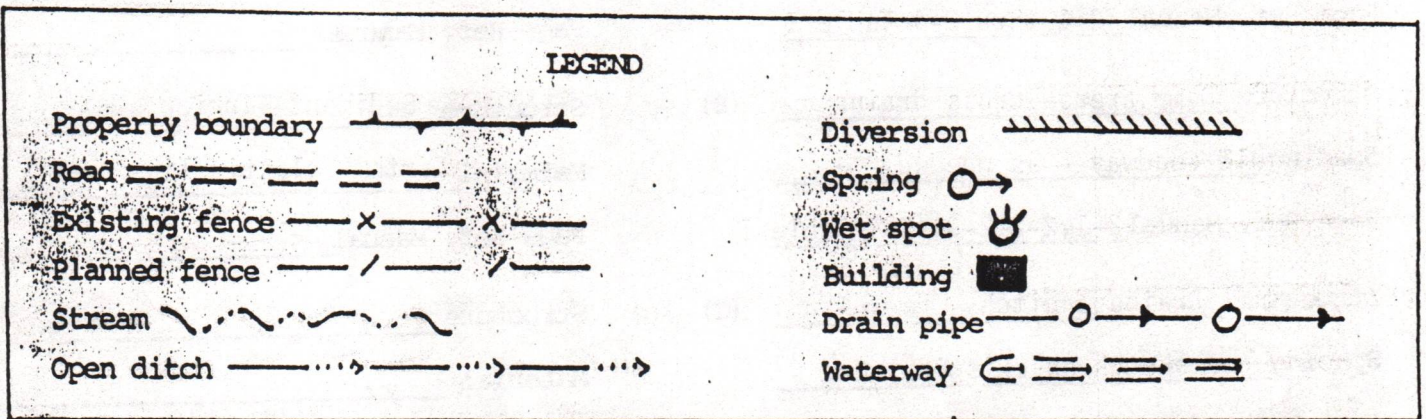
PHONE NO. 743-8172

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

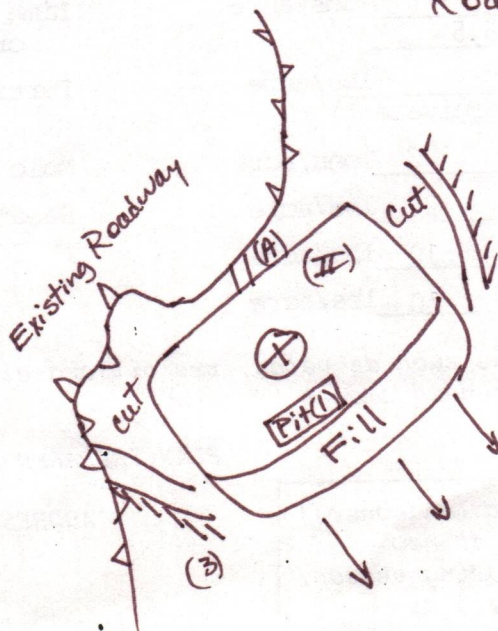
ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Charleston, WV



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.



- Existing Roadway will be upgraded as Necessary
- This location is on a Ridgetop & almost level
- Location is on Existing Roadway.



02/16/2024

83 079 704

NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES

(See Reverse)

Form 3800, Feb. 1962

Sent to		Jim Jones, Admin. Land & Real
Street and No.		Estate Office, Dept. of Nat.
P. O., State and Zip Code		Resources, Charleston, WV 2530
Postage	\$54	
Certified Fee	75	
Special Delivery Fee		
Registered Delivery Fee	60	
Return Receipt Showing to whom and Date Delivered		
Return Receipt Showing to whom, Date, and Address of Delivery		
TOTAL Postage and Fees	189	
Postmark	DEC 27 1983	

RECEIVED
 DEC 27 1983
 OIL & GAS DIVISION
 DEPT. OF MINES

*Location is on Existing Roadway
 almost level
 This location is on a Ridge
 labeled as necessary
 Existing Roadway will be*



02/16/2024



IV-35
(Rev 8-81)

Date April 30, 1984
Operator's
Well No. KSF #13
Farm Aultz
API No. 47 - 039 - 3997

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 ___ / Underground Storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 1175.3 Watershed Bays Fork - Middle Fork of Davis Creek
District: Loudon County Kanawha Quadrangle Charleston, WV

COMPANY Badger Oil & Gas Co., Inc.
ADDRESS P. O. Box 299 Culloden, WV 25510
DESIGNATED AGENT Jack Dyer
ADDRESS P. O. Box 299 Culloden, WV 25510
SURFACE OWNER State of West Virginia
ADDRESS Dept. of Natural Resources, Chas., WV
MINERAL RIGHTS OWNER Woodrum Estate
ADDRESS Charleston, WV
OIL AND GAS INSPECTOR FOR THIS WORK
Rodney Dillon ADDRESS Box 7, Williamstown, WV
PERMIT ISSUED January 19, 1984
DRILLING COMMENCED January 26, 1984
DRILLING COMPLETED February 22, 1984
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 Cord.			
13-10"	32.5'	32.5'	Cemented to Surface
9 5/8			93 cu. ft.
8 5/8	397.6'	397.6'	3% CACL2
7	1769.9'		
5 1/2			
4 1/2	1989	1989	33 Sacks
3			RFC
2			10/2 W/ zone lock
Liners used			

Class A

GEOLOGICAL TARGET FORMATION Big Injun Sand Depth 1905 feet
Depth of completed well 1990 feet Rotary ___ / Cable Tools X
Water strata depth: Fresh feet; Salt 1000 feet
Coal seam depths: --- Is coal being mined in the area? NO

OPEN FLOW DATA
Producing formation Big Injun Pay zone depth 1905-1950 feet
Gas: Initial open flow Show Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow 150 Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 425 psig (surface measurement) after 24 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

02/16/2024

(Continue on reverse side)

KAN. - 3997

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

Perforations 1920 - 1936' - 17 holes

N₂ - 310,000 SCF 10,000 SCFM
Dowell Product

ISIP 1750

Total 40,000# 20/50 Sand
 500 Gal. 15% Hcl Acid U42 - 15 Gal.
 F78 - 21 Gal. L55 - 10 Gal.
 F75 - 14 Gal. KCL - 1400#
 M76 - 4 Gal.

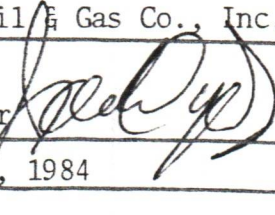
WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Surface			0	10	
Slate			10	22	
Sand			22	30	
Slate			30	110	
Sand			110	200	
Slate			200	240	
Sand			240	255	
Slate			255	275	
Sand			275	345	
Slate			345	420	
Sand			420	440	
Slate			440	450	
Sand			450	480	
Slate			480	545	
Sand			545	550	
Slate			550	595	
Sand			595	665	Gas 700'
Slate			665	700	
Shale & Slate			700	790	
Sand			790	1080	
Slate			1080	1090	Water 1000'
Sand			1090	1350	
Slate			1350	1375	
Sand			1375	1600	
Slate			1600	1620	
Red Rock			1620	1650	
Sand			1650	1685	
Slate			1685	1690	
Little Lime			1690	1724	
Broke Slate			1724	1730	
Big Lime			1730	1905	
Red Injun			1905	1950	
Slate & Shale			1950	1990	

(Attach separate sheets as necessary)

Badger Oil & Gas Co., Inc.

Well Operator

By: Jack Dyer  02/16/2024

Date: April 30, 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 - 6 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 039-3497

Oil or Gas Well _____
(KIND)

Company Badger Oil & Gas
 Address Culloden, WV
 Farm State of W. VA.
 Well No. KSF # 13
 District Loudon County Kan
 Drilling commenced _____
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
 NAME OF SERVICE COMPANY _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names _____

Remarks: LOCATION AND ROAD RECLAIMED LOCATION SEEDED AND MULCHED ROAD NEEDS TO BE SEEDED

7/31/81
DATE

ROD W. DILLON
02/16/2024
DISTRICT WELL INSPECTOR

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

RECEIVED

JAN 30 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 039-3997

Oil or Gas Well _____
(KIND)

Company BADGER Oil & Gas
 Address CUHODEN WVA
 Farm K.S. FOREST
 Well No. 13
 District LOUDEN County KANAWHA
 Drilling commenced _____
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
 NAME OF SERVICE COMPANY _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names SKEENS DRILLING - SPUDDER

Remarks: RIGGING UP - ASK THEM TO INSTALL PIT LINER

1-23-84
DATE

Jerry Kolond
02/16/2024
DISTRICT WELL INSPECTOR

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

RECEIVED

FEB 6 - 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 039-3997

Oil or Gas Well _____
(KIND)

Company BADGER OIL & GAS

Address CULLODEN WVA.

Farm K.S.F #13

Well No. 13

District LOUDON County KANAWHA

Drilling commenced _____

Drilling completed _____ Total depth _____

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 3/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED 8 5/8 SIZE 397' No. FT. 1-30-84 Date

NAME OF SERVICE COMPANY DOWELL

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names SKEEN'S DRILLING

Remarks: CEMENT W/ 90 OF NEAT 3% CAL CIR TO SURFACE
PLUG DOWN @ 4:00PM

1-30-84

DATE

Jerry Holman
02/16/2024
DISTRICT WELL INSPECTOR

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

RECEIVED
FEB 14 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 039-3997

Oil or Gas Well _____
(KIND)

Company BADGER OIL & GAS
 Address CULLODEN WVA.
 Farm KSF #13
 Well No. _____
 District LOUNDON County KANAWHA.
 Drilling commenced _____
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
 NAME OF SERVICE COMPANY _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names SREEN'S DRILLING - SPUDDER

Remarks: DRILLING @ 1000' FT.

2-6-84
DATE

Jerry Holcomb
DISTRICT WELL INSPECTOR

02/16/2024

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

RECEIVED
FEB 27 1984

OIL & GAS DIVISION

DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 039-3997

Oil or Gas Well
(KIND)

Company BADGER OIL & GAS

Address CULLODEN WVA.

Farm ST. OF WVA.

Well No. NSF-13

District LOUDON County KANAWHA

Drilling commenced _____

Drilling completed _____ Total depth _____

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packerc
13			
10			Size of
8 1/4			
6 5/8			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 4 1/2 SIZE 1977 No. FT. 2-24-84 Date

NAME OF SERVICE COMPANY DOWELL

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names SKEEN'S DRILLING- SPUDDER

Remarks: 53.C.F. CEMENT

2-24-84
DATE

Jerry Dolan
DISTRICT WELL INSPECTOR

0214612024

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: STATE OF WV KSF #13 Well:

Permit No. 47- 39-3997 (1-19-84)
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 Casing	_____	_____
15.02	Adequate Coal Casing	_____	_____
15.01	Adequate Production Casing	_____	_____
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	_____	_____
.01	Well Records on Site	_____	_____
16.02	Well Records Filed	_____	_____
7.05	Identification Markings	_____	_____

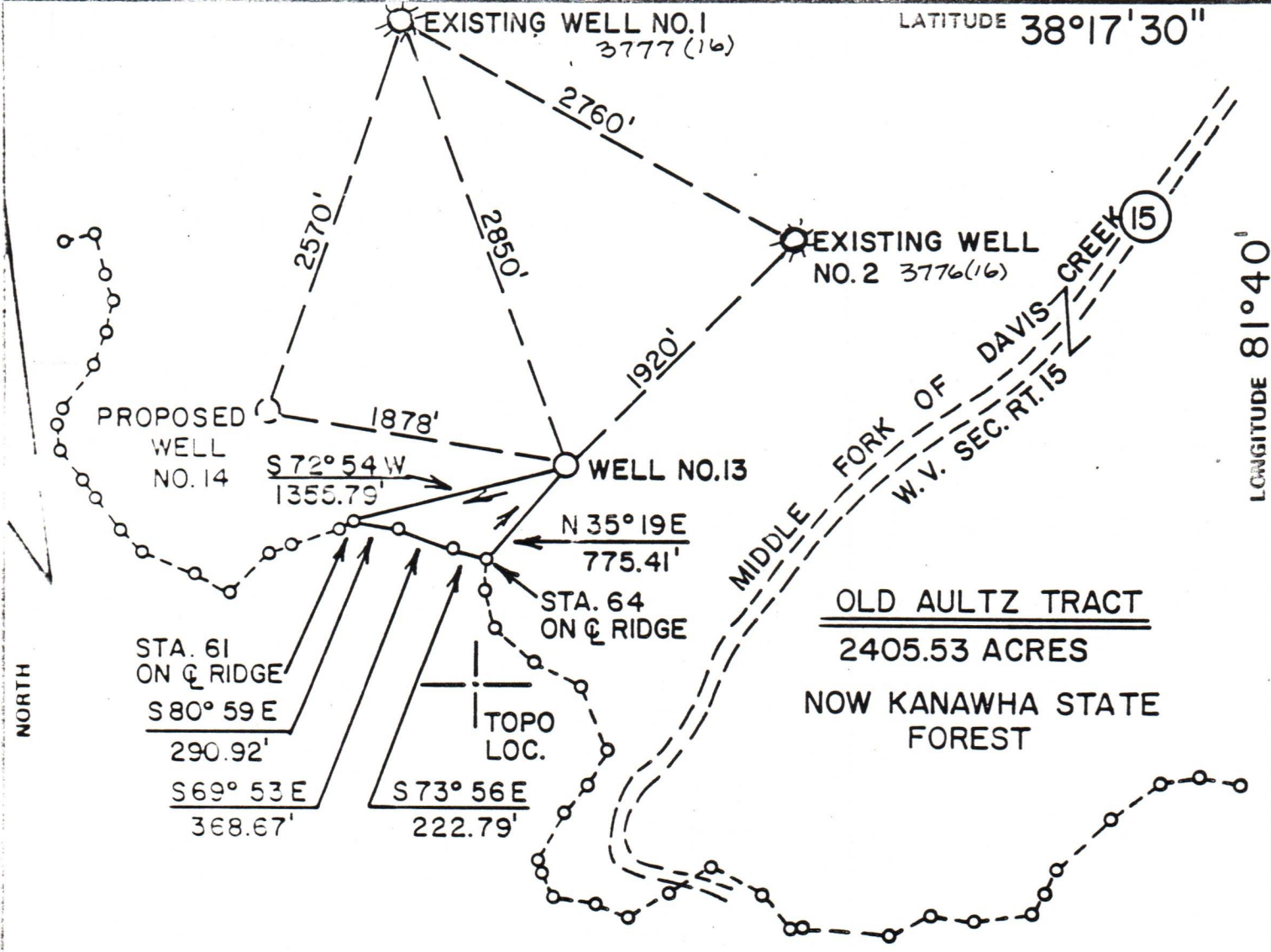
I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED *Charles W. Haisley*
DATE 6/26/85

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

July 11, 1985
Date

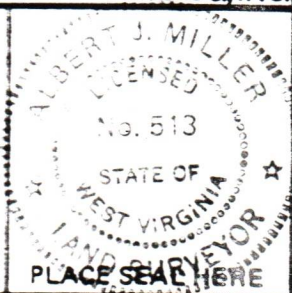


NOTE—U.S.G.S—"812" ELEVATION 812.02' 1.2 MILES SE OF IVYDALE, W.VA.—ALONG W.VA. SEC. RT 15—MOUTH OF LITTLE HOLLOW — — A STANDARD TABLET STAMPED TT 38 CBC 1955" 812 "

SURVEYED BY MILLER SURVEYING & MAPPING CO., INC.

FILE NO. _____
DRAWING NO. _____
SCALE 1"=1000'
MINIMUM DEGREE OF ACCURACY 1 IN 2500'
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. 513



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



DATE DECEMBER 5 19 83
OPERATOR'S WELL NO. KSF NO. 13
API WELL NO. 47 039 - 3997
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 1175.34 WATER SHED BAYS FORK OF MIDDLE FORK OF DAVIS CREEK
DISTRICT LOUNDON DISTRICT COUNTY KANAWHA COUNTY
QUADRANGLE CHARLESTON W.V.
SURFACE OWNER STATE OF W.V. ACREAGE 2405
OIL & GAS ROYALTY OWNER COLUMBIA GAS CO. LEASE ACREAGE 2405
LEASE NO. 170559 02/16/2024
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 WEIR ESTIMATED DEPTH 2200 FT.
WELL OPERATOR BADGER OIL & GAS CO. DESIGNATED AGENT BADGER OIL & GAS CO.
ADDRESS P.O. BOX 299 ADDRESS P.O. BOX 299
CULLODEN, W.V. 25510 CULLODEN, W.V. 25510