

Plot - Card - CSD

LATITUDE 39°12' 30"
39°15' 00"

LONGITUDE 80° 22' 00"
80° 22' 30"

SPERRY

R. JOHNSON

CHES. ON TOP OF KNOB

STONE & S.W. W.O.O.
PROPOSED WELL
ELEV. - 1225'

C. W. MUTSCHELKNAUS (min)
N71-03E
320'

7 1/2' TOPO.
4.205
4.500
4.5

SUGAR IN RAVINE
S OF
792.00'

STONE PILE & P TRS.
S88 E
1221.00'

STONE & LOCUST

J.G. BURNSIDE
* 16-2419

SUGAR
S88 E
165.00'

BEECH

N28W
1798.50'

S79E
825.00'

S62E
940.50'

(27)

HICKORY

DRY

FORK

S1-37E
2133'

SUGAR S81-30 W
561.00'

M10

1843'

1542.75'

556-05W

S5W

J. B. CORDER

NORTH

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1/10 100
PROVEN SOURCE OF ELEVATION USGS BM 947 J.T. RTS 25&27 BIG ISAAC QUAD.

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

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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) R.P.E. [Signature] L.L.S. 624
Kochan Surveys & Consulting, Inc.

PLACE SEAL HERE



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE MARCH 18, 1983
OPERATOR'S WELL NO. MUTSCHELKNAUS-2 WK-87
API WELL NO. 47-017

STATE COUNTY PERMIT
47-017 3216

WELL TYPE: OIL - GAS LIQUID INJECTION - WASTE DISPOSAL -
(IF "GAS,") PRODUCTION STORAGE - DEEP - SHALLOW

LOCATION: ELEVATION 1225' WATER SHED DRY FORK
DISTRICT GREENBRIER COUNTY DODDRIDGE
QUADRANGLE BIG I.S.A.C. Dodds NE ACREAGE 43

SURFACE OWNER JAMES A GAIN
OIL & GAS ROYALTY OWNER CLARENCE W. MUTSCHELKNAUS LEASE ACREAGE 7.2
LEASE NO. KW-490

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

MAY 16 1983

PLUG AND ABANDON CLEAN OUT AND REPLUG _____ ESTIMATED DEPTH 5900'
TARGET FORMATION DEVONIAN SHALE
WELL OPERATOR KERCO, INC. DESIGNATED AGENT E.L. STUART

7122 - 3216



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

1) Date: April 27, 1987
2) Operator's Well No. Mitchell 27
3) API Well No. 47 State West Virginia County Mitchell Permit 017

DRILLING CONTRACTOR:

4) WELL TYPE: A Oil Gas
B (If "Gas", Production Underground storage Deep Shallow
5) LOCATION: Elevation: _____
District: _____
County: _____
6) WELL OPERATOR James A. Cain
Address 1000 W. 20th St. Martinsburg, W. Va. 26006
7) OIL & GAS ROYALTY OWNER James A. Cain
Address 1000 W. 20th St. Martinsburg, W. Va. 26006
8) SURFACE OWNER James A. Cain
Address 1000 W. 20th St. Martinsburg, W. Va. 26006
9) FIELD SALE (IF MADE) TO: _____
Address _____
Acreage _____

10) OIL & GAS INSPECTOR TO BE NOTIFIED
Name _____
Address _____

15) PROPOSED WORK: Drill Drill deeper Redrill Fracture or stimulate
Plug off old formation Perforate new formation
Other physical change in well (specify) _____

16) GEOLOGICAL TARGET FORMATION, _____ feet
17) Estimated depth of completed well, _____ feet.
18) Approximate water strata depths: Fresh, _____ feet; salt, _____ feet.
19) Approximate coal seam depths: _____ Is coal being mined in the area? Yes No

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	For drilling	Left in well		
Conductor							
Fresh water							
Coal							
Intermediate							
Production							
Tubing							
Liners							

21) 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.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing 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.

23) Required Copies (See reverse side.)
24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: _____ Signed: _____
My Commission Expires _____ Its: _____

OFFICE USE ONLY
DRILLING PERMIT

Permit number _____ 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. **Notifications must be given to the District Oil and Gas Inspector (Refer to No. 10) 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.)

Permit expires _____ unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
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Administrator, Office of Oil and Gas

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

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs; "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Forms IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
- 24) **The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.**

.....
The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

W/AIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19____ By _____
Its _____



1) Date: March 13, 19 84
 2) Operator's Well No. MutcheIknaus #2-WK-87
 3) API Well No. 47 - 017 - 3216 - REN
 State County Permit

RENEWAL

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
 Elevation: 1225' Watershed: Dry Fork
 District: Greenbrier County: Doddridge
 7) DESIGNATED AGENT R. L. Stuart
 Address 436 Blvd. of the Allies P. O. Box 1550
Pittsburgh, PA 15219 Clarksburg, WV 26301

8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Stephen Casey
 Address Route 2, Box 232-D
Jane Lew, WV 26378

10) PROPOSED WELL WORK: Drill deeper Redrill Stimulate
 Plug off old formation Perforate new formation
 Other physical change in well (specify) Devonian Shale

11) GEOLOGICAL TARGET FORMATION, Devonian Shale
 12) Estimated depth of completed well, 5900 feet
 13) Approximate trata depths: Fresh, 130 feet; salt, 779 feet. OIL & GAS DIVISION
 14) Approximate coal seam depths: 375 & 779 Is coal being mined in the area? Yes No
 15) CASING AND TUBING PROGRAM DEPT. of MINES

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used		
Conductor	13-16"						
Fresh water							
Coal	8-5/8"			X			
Intermediate							
Production	4-1/2"			X			
Tubing							
Liners							

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3216-REN Date April 4, 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 April 4, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

AGENT	AGENT	PLAT	CASING	FEE
LO	MH	MH	MH	318

[Signature]
 Administrator, Office of Oil and Gas

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.

File

