



FILE NO. 3-3
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION B.M. ELEV. 656'
SLEEPY CREEK

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) [Signature]
 R.P.E. 4596 L.L.S. _____

PLACE SEAL HERE

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



DATE JANUARY 1, 19 82
 OPERATOR'S WELL NO. K.B. CAVENDER #4
 API WELL NO. _____
47 - 079 - 1078
 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 605' WATER SHED HODGES BRANCH
 DISTRICT TEAYS VALLEY COUNTY PUTNAM
 QUADRANGLE HURRICANE Mellon 15' NE
 SURFACE OWNER KYLE B. AND DONNA CAVENDER ACREAGE 50 ACRES
 OIL & GAS ROYALTY OWNER KYLE B. AND DONNA CAVENDER LEASE ACREAGE 50 ACRES
 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 DEVONIAN SHALE ESTIMATED DEPTH 4100'
 WELL OPERATOR OIL & GAS ENERGY RESOURCES DESIGNATED AGENT WILLIAM BENNETT
 ADDRESS P.O. BOX 2683 ADDRESS P.O. BOX 2683
CHARLESTON, WV CHARLESTON, WV



RECEIVED

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

JUL 29 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Hurricane 7 1/2

Permit No. 47-079-1078

Rotary X Oil X
Cable _____ Gas X
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Company Oil&Gas Energy Resources Inc
Address 280 Madison Ave., N.Y.C., NY 10016
Farm K.B. Cavender Acres 50
Location (waters) Hurricane Creek
Well No. 4 Elev. 605'
District Teays Valley County Putnam
The surface of tract is owned in fee by same
Address same
Mineral rights are owned by same
Address "
Drilling Commenced 5-1-82
Drilling Completed 5-14-82
Initial open flow show cu. ft. show bbls.
Final production 10 MCF cu. ft. per day 2 bbls.
Well open 24 hrs. before test 550 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 16	20'	20'	to surface
13-10" 10	24'	24'	to surface
9 5/8	254'	254'	to surface
8 5/8			
7			
5 1/2			
4 1/2	2250'	2250'	to 1575'
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Water encountered in Devonian Shale at 3460'. Plugged back to 2250'.
Perforated Berea Sand from 2138' to 2200' w/ 13 shots. Fraced w/500 gal.
15% HCL. 460BBL Water. 45,000# 20-40 Sand.

Coal was encountered at none Feet -- Inches
Fresh water 80', 137' Feet _____ Salt Water _____ Feet _____
Producing Sand Berea Sand Depth 2138'-2200'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Clay, soil, fill			0	142°		
Salt Sand Series			142°	1485°		
Big Lime			1485	1681°		
Injun Sand			1681°	1857°		
Weir Sds(?)			1857°	1919°		
Shale & Siltstone			1919°	2181°		
Berea Sand			2181°	2209°		
Devonian Shale (Haron)			2209°	3460°		Show gas & oil TD. Water at 3460°

Date 7-25-82

Approved OIL & GAS ENERGY RES own

By William S. Keating

AUG 9 1982



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED

FEB 12 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE 10 February, 1982

Surface Owner K. B. & Donna Cavender
Address Rt 4, Box 402
Mineral Owner same
Address same
Coal Owner same
Address same
Coal Operator none
Address --

Company Oil & Gas Energy Resources
Address 280 Madison Av. Suite 1105
Farm NYC, NY 10016 Acres 50
CAVENDER
Location (waters) Hodges Branch
Well No. 4 Elevation 605'
District Teays Valley County Putnam
Quadrangle Hurricane 7 1/2

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 10-17-82.

INSPECTOR

TO BE NOTIFIED Martin Nichols

ADDRESS P.O. Box 554
Clendenin, WV 25045

PHONE 548-6993

Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated 10/30 1981 by K. B. & Donna Cavender made to S. Spencer to OG&ER and recorded on the 4th day of Nov 1981, in Putnam County, Book 62 Page 577

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 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 have been notified as 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 na day na 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
GEOPHYSICAL LOGS 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) Oil & Gas Energy Resources
Suite 1105, 280 Madison Av
New York, N.Y. 10016

Address
of
Well Operator

Street
New York, N.Y. 1001
City or Town

NY

State

*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 authorized to proceed.

BLANKET BOND

47-079-1078

PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO x DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Falcon Drlg Co _____ NAME William E. Bennett _____
 ADDRESS Michigan&Kan. Blvd. Charlseton, WV ADDRESS Box 2683, Charlseton, WV 25330
 TELEPHONE 343-0542 _____ TELEPHONE 345-0216 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 4100' _____ ROTARY x _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Marcellus Shale-Devonian
 TYPE OF WELL: OIL _____ GAS x _____ COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT LIFT UP OR SACKS - CUBIC FT.
20 - 16	20'	20'	to surface
13 - 10			
9 - 5/8	250'	250'	to surface
8 - 5/8			
7	1825'	1825'	350'
5 1/2			
4 1/2	4100'	4100'	back to 2500'
3			Perf. Top
2			Perf. Bottom
1 iners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 80' FEET _____ SALT WATER 1765' FEET _____
 APPROXIMATE COAL DEPTHS none _____
 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.

na

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