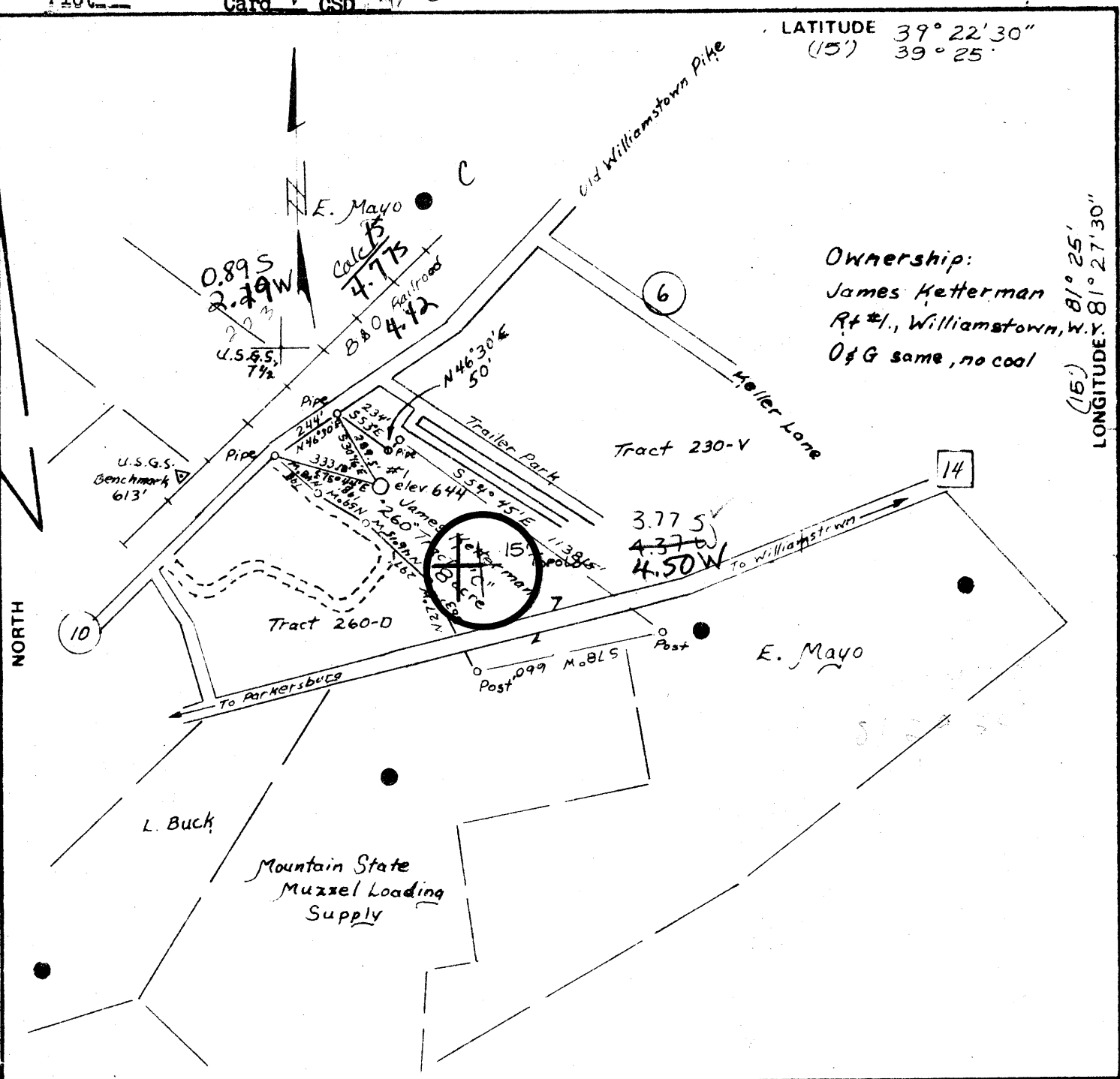


LATITUDE 39° 22' 30"
(15) 39° 25'

LONGITUDE 81° 25'
(15) 81° 27' 30"



FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION U.S.G.S. BM 613'

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] surveyed by John C. Fisher
R.P.E. [Signature] L.L.S. _____

PLACE SEAL HERE

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



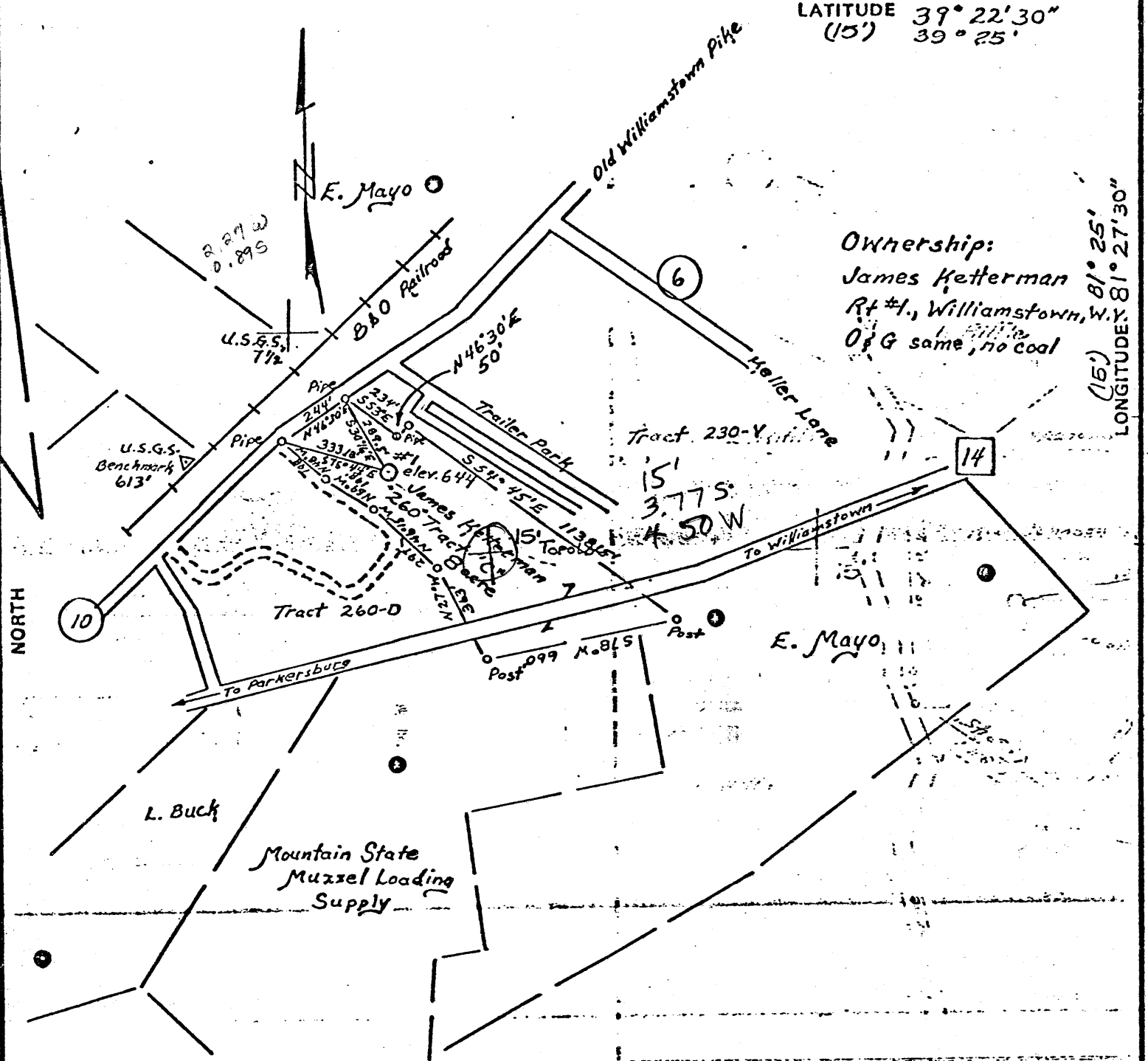
DATE _____, 19____
OPERATOR'S WELL NO. _____
API WELL NO. _____
47 - 107 - 0951
STATE COUNTY PERMIT

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 644 WATER SHED Keller, Ohio River
DISTRICT Williams COUNTY Wood
QUADRANGLE Valley Mills U.S.G.S. 7 1/2' MARIETTA 15' WC
SURFACE OWNER James Ketterman ACREAGE 8
OIL & GAS ROYALTY OWNER same LEASE ACREAGE 8
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 Gordon ESTIMATED DEPTH 2700'
WELL OPERATOR Energex Corporation DESIGNATED AGENT B.H. Thomas
ADDRESS P.O. Box 1365 ADDRESS 225 4th St.
Parkersburg, W.V. Parkersburg, W.V.

LATITUDE 39° 22' 30"
(15) 39° 25'

LONGITUDE 81° 25'
(15) 81° 27' 30"



Ownership:
James Hetterman
Rt #1, Williamstown, W.Y.
O & G same, no coal

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION U.S.G.S. BM 613'

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] surveyed by John C. Fisher
R.P.E. [Signature] L.L.S. [Signature]

PLACE SEAL HERE

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



DATE _____, 19____
OPERATOR'S WELL NO. _____
API WELL NO. _____
47 - 107 - 0951
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 644 WATER SHED Keller, Ohio River
DISTRICT Williams COUNTY Wood
QUADRANGLE Valley Mills U.S.G.S. T12
SURFACE OWNER James Hetterman ACREAGE 8
OIL & GAS ROYALTY OWNER Same LEASE ACREAGE 8
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 Gordon ESTIMATED DEPTH 2700'
WELL OPERATOR Energex Corporation DESIGNATED AGENT B.H. Thomas
ADDRESS P.O. Box 1168 ADDRESS 228 4th St.
Parkersburg, W.V. Parkersburg, W.V.

OCT 14 1980

Operator's Well No. EN. 951

[08-78]

WELL OPERATOR'S REPORT 29

API Well No. 47-107-0951 State County Perm

OIL & GAS DIVISION DEPT. OF MINES OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 644' Watershed: Keller District: Williams County: Wood Quadrangle: Valley Mills

WELL OPERATOR Energex Corporation DESIGNATED AGENT Walter H. Allen Address P. O. Box 1365 Parkersburg, WV 26101 Address 225 Fourth Street Parkersburg, WV 26101

PERMITTED WORK: Drill X / Convert / Drill deeper / Redrill / Fracture or stimulate X Plug off old formation / Perforate new formation / Other physical change in well (specify)

PERMIT ISSUED ON February 13, 1980

OIL & GAS INSPECTOR FOR THIS WORK:

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

Name K. Paul Goodnight Address Smithville, WV

GEOLOGICAL TARGET FORMATION: Berea Depth 1920-24 feet Depth of completed well, 2328 feet Rotary X / Cable Tools Water strata depth: Fresh, 92 feet; salt, 1500 feet. Coal seam depths: N/A Is coal being mined in the area? No Work was commenced March 19, 1980, and completed September 16, 1980

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight, New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), and FEETERS (Kinds, Sizes, Depths set, Formations: Top, Bottom). Includes a 'RECEIVED' stamp dated OCT 14 1980.

OIL & GAS DIVISION DEPT. OF MINES

OPEN FLOW DATA

Producing formation Berea Pay zone depth 1920-24 feet Gas: Initial open flow, 600 Mcf/d Oil: Initial open flow, 40 Bbl/d Final open flow, 240 Mcf/d Final open flow, 9 Bbl/d Time of open flow between initial and final tests, 24 hours Static rock pressure, 700 psig (surface measurement) after 48 hours shut in [If applicable due to multiple completion--] Second producing formation None Pay zone depth feet 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 measurement) after hours shut in

OCT 23 1980

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

Perforated 1921' to 1923', with 8 holes. Fractured with 500 gallons 15% HCL acid, 550 B/W and 20,000 pounds sand.

WELL LOG

FORMATION	Color	Hard or Soft	21 Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Soil & Conglomerates	Brown	Soft	Surface	6	
Shaly Sand	Brown	Med.	6	112	
Shale & Sandy Shale	Gray	Med.	112	436	fresh water 92-108
Sand	Gray	Hard	436	490	
Shale	Dk.				
	Gray	Soft	490	686	
Sand	Gray	Hard	686	700	
Shale	Gray	Med.	700	792	
Sand	Lt.				
	Gray	Med.	792	886	
Shale	Gray-				
	Brown	Soft	886	908	
Shaly Sand	Brown	Med.	908	975	
Shale	Dk.				
	Gray	Soft	975	1016	
	Red				
Sand	White	Med.-Hd.	1016	1014	
Sandy Shale	Dk.				
	Gray	Med.-			
		Soft	1041	1230	
Shaly Sand	& Red		1230	1339	
	Lt.				
	Gray	Med.	1330	1421	
Shale	Dk.				
	Gray	Soft	1421	1538	salt water 1484-1538
Lime & Sandy Lime	Gray	Hard			
Shale	Gray	Soft	1538	1880	
Coffee Shale	Dk. Br.	Hard	1880	1920	
Berea Sand	White	Hard	1920	1925	oil and gas show
Shale	Gray	Med. Hd.	1925	2230	
Gordon Sand	Lt.				
	Gray	Med.Hd.	2230	2252	gas show
Shale	Dk.				
	Gray	Med.Hd.	2252	2354	

(Attach separate sheets to complete as necessary)

ENERGEX CORPORATION
Well Operator
By Robert M. Goodwin
Its SECRET

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

RECEIVED
FEB 13 1980

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE February 13, 1980

Surface Owner James Ketterman

Company Energex Corporation

Address Rt. #1., Williamstown W. V.

Address P.O. Box 1365, Parkersburg, W. V.

Mineral Owner Same

Farm James Ketterman Acres 8

Address _____

Location (waters) Keller

Coal Owner Same

Well No. one (1.) Elevation 644

Address _____

District Williams County Wood

Coal Operator Same

Quadrangle Valley Mills U.S.G.S. 7 1/2'

Address _____

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 10-13-80.

INSPECTOR

TO BE NOTIFIED K. Paul Goodnight

ADDRESS Smithville, W. V.

PHONE 477-2455

Robert F. [Signature]
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 January 22 1980 by Pavanne Kilby Energex agent made to James Ketterman and recorded on the _____ day of _____ 19 , in Wood County, Book _____ Page _____

XX 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 _____ 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
GEOPHYSICAL LOGS DIRECTLY TO:

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

Address
of
Well Operator

P. O. Box 1365
Street
Parkersburg, W. V. 26101
City or Town
West Virginia 26101
State

Very truly yours,

(Sign Name) John C. Snider, agent
Well Operator

*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

47-105-0951
107

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 John C. Snider, agent

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

PROPOSED WORK ORDER TO XX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Paul Drilling Co. NAME B. H. Thomas
 ADDRESS 225 Fourth St., Parkersburg, W. V. ADDRESS 225 Fourth St., Parkersburg, W. V.
 TELEPHONE 422-5418 TELEPHONE 422-5418
 ESTIMATED DEPTH OF COMPLETED WELL: 2700 ROTARY XX CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Gordon
 TYPE OF WELL: OIL XX GAS XX COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	250'	250'	Circ. to surface
7			
5 1/2			
4 1/2		2200'	75 sacks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET SALT WATER _____ 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.

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