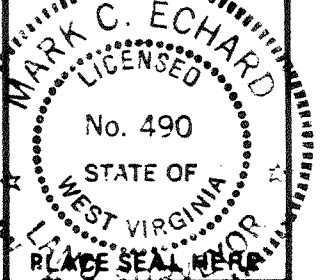


FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/2500
 PROVEN SOURCE OF ELEVATION USGS B.M. LYNN CHAPEL 5200' SE OF LOC., ELEV. = 1026'

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.

Mark C. Echard
 (SIGNED) MARK C. ECHARD
 R.P.E. _____ L.L.S. 490



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6 (8-78)

STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

DATE FEBRUARY 11 1985
 OPERATOR'S WELL NO. ONE
 API WELL NO. 47-091-0471
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1283' WATER SHED LOST RUN
 DISTRICT BOOTH'S CREEK 342 COUNTY TAYLOR
 QUADRANGLE FAIRMONT EAST 7.5' 415' C5

SURFACE OWNER BERNARD G. SAMPSON, ET. AL. 041 ACREAGE 212.2 OF 240.6
 OIL & GAS ROYALTY OWNER GRAFTON LOAN CO. LEASE ACREAGE 240.6
 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 ORISKANY ESTIMATED DEPTH 8000' ± 5-5 unnamed (380) extend s deep prod

WELL OPERATOR FOX DRILLING CO., INC. DESIGNATED AGENT MR. ROBERT E. FOX in 204 deep well
 ADDRESS 303 P.O. BOX 129 ADDRESS P.O. BOX 129
 GLENVILLE, WV 26351 GLENVILLE, WV 26351

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

Perforations (7290'-98') ^{Monteville} 8 holes (7306'-14') 8 holes, (7320'-28')
8 holes, (7336'-42') 6 holes; 30 holes total. .49"

Well fractured by Halliburton Services 04/24/85

Breakdown: 3600#, 1720 BBl's. sand laden fluid, average rate 32 BPM,
average pressure 5500#, H.H.P. 4313, 10,000 lbs. 80/100 sand,
79500 lbs. 20/40 sand, 2000 gallons 20% Hcl, 10500 gallons 31.5%
Hcl acid.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
					Gas Test
					1968' Flair
					2631' 20/10-1/4"-W
					2830' 24/10-1/2"-W
					3074' 24/10-1/2"-W
					3200' 24/10-1/2"-W
					4029' 38/10-1/2"-W
					5000' 30/10-1/2"-W

(Attach separate sheets as necessary)

Keelex Corporation
Well Operator

By:

Date: May 27, 1985

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 soil, encountered in the drilling of a well."

091 471, B. 2

Sand	0'	201'
Shale	201'	379'
Sand	379'	425'
Sandy Shale	425'	470'
Sand	470'	573'
Red Rock	573'	638'
Sandy Shale	638'	665'
Sand	665'	890'
Shale	890'	910'
Little Lime	910'	920'
Red Rock	920'	930'
Big Lime	930'	1020'
Sand - <i>See Big Lime</i>	1020'	1110'
Shale	1110'	1440'
Gantz Sand	1440'	1455'
Shale	1455'	1499'
50' Sand	1499'	1506'
Sandy Shale	1506'	1854'
Gordon	1854'	1874'
Sandy Shale	1874'	1909'
4th. Sand	1909'	1988'
Shale	1988'	2037'
5th Sand	2037'	2084'
Shale	2084'	2730'
Speechley	2730'	2742'
Shale	2742'	3054'
Balltown	3054'	3058'
Shale	3058'	3926'
Riley	3926'	3937'
Shale	3937'	4080'
Benson	4080'	4088'
Shale	4088'	4267'
1st. Elk	4267'	4222'
Shale	4222'	4459'
2nd. Elk	4459'	4464'
Shale	4464'	4738'
3rd. Elk	4738'	4751'
Shale	4751'	6219'
Sycamore Grit	6219'	6556'
Shale	6556'	6898'
Tulley Lime	6898'	6962'
Shale	6962'	7160'
Marcellus Shale	7160'	7266'
Onondaga Lime	7266'	7276'
Huntersville Chert	7276'	7478'
Oriskany Sand	7478'	7489'
Helderberg Lime	7489'	7610'
TOTAL DEPTH (DRILLERS)		7610'

OCT 15 1985

FILE COPY
RECEIVED

MAR 5 1985



1) Date: February 13, 19 85
 2) Operator's Well No. Grafton Loan #1
 3) API Well No. 47-091-0471
 State _____ County _____ Permit _____

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

- 4) WELL TYPE: A Oil _____ / Gas XX /
 B (If "Gas", Production XX / Underground storage _____ / Deep XX / Shallow _____)
- 5) LOCATION: Elevation: 1283' Watershed: Lost Run
 District: Booth Creek County: Taylor Quadrangle: Fairmont East 7.5
- 6) WELL OPERATOR Fox Drilling Co. Inc 18000 7) DESIGNATED AGENT Robert E. Fox
 Address P.O. Box 129 Address P.O. Box 129
Glenville, W.V. 26351 Glenville, W.V. 26351
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Donald Ellis Name Fox Drilling Co. Inc.
 Address 2604 Crab Apple Lane Address P.O. Box 129
Fairmont, W.V. 26554 Glenville, W.V. 26351
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper _____ / Redrill _____ / Stimulate X /
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Oriskany
 12) Estimated depth of completed well, 8000 + feet
 13) Approximate strata depths: Fresh, 80-120 feet; salt, _____ feet.
 14) Approximate coal seam depths: 375' Is coal being mined in the area? Yes _____ / No XX /

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		
Conductor	11 3/4			X		40'	40'	To Surface Kinds
Fresh water								
Coal								Sizes
Intermediate	8 5/8	J55	23.0	X		1500'	1500'	To Surface
Production	4 1/2	N80	11.6	X			8000'	60CSKS Depths set
Tubing								
Liners								Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-091-0471 Date March 5, 19 85

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 5, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>67</u>	<u>MU</u>	<u>MU</u>	<u>MU</u>	<u>2049</u>

Margaret J. Sasse
 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