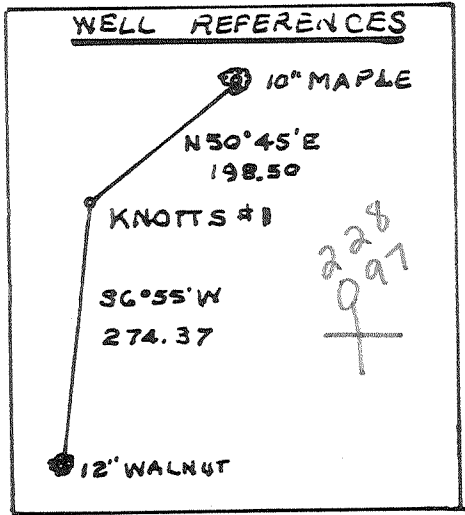
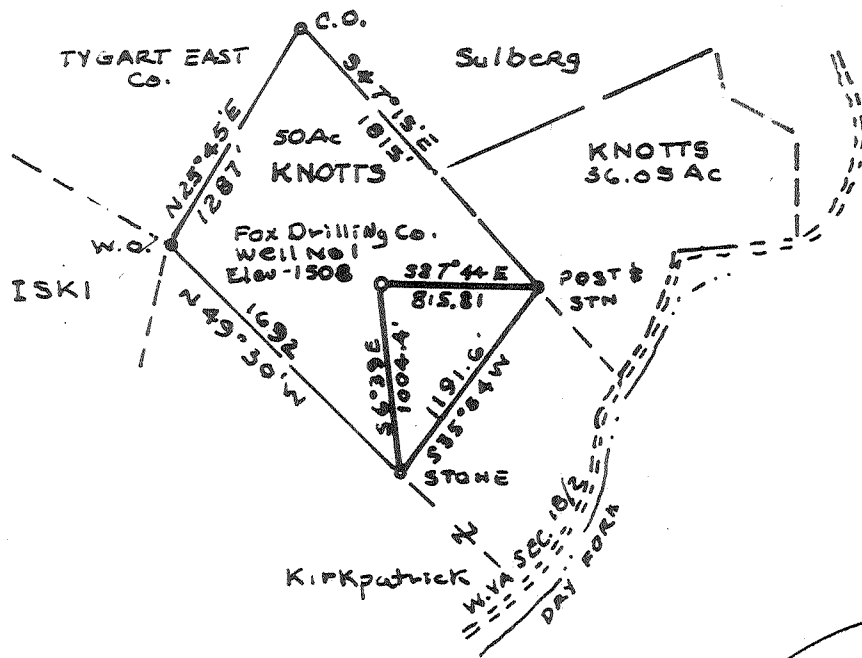


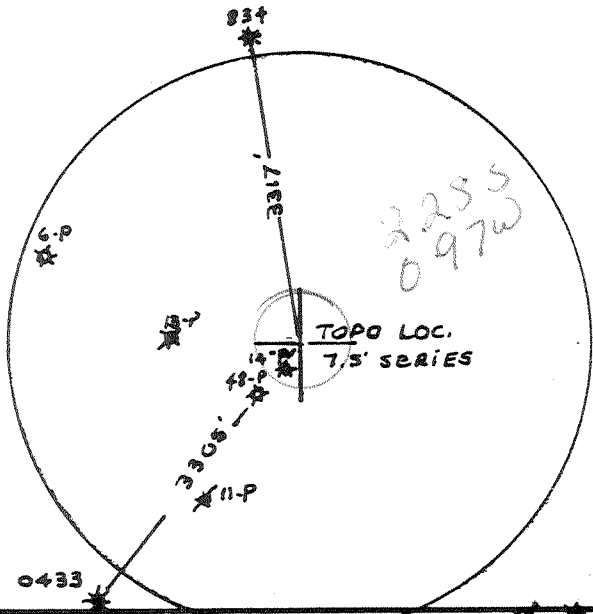
CODE _____ CARD _____ PLOT _____

LATITUDE 39° 25' 30"

JOHN A. KNOTTS NO 1



LONGITUDE 80° 05' 00"
12,000 S

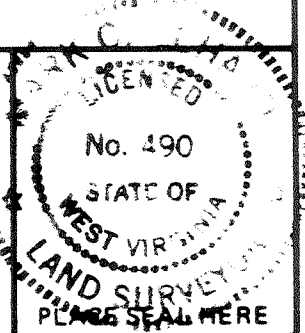


COAL OWNER:
 HILLMAN COAL CO.
 1900 GRANT BLDG
 PITTSBURGH, PA. 15219

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/5000
 PROVEN SOURCE OF ELEVATION BM AT LYNN CHAPEL = 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)



DATE SEPTEMBER 19, 1984
 OPERATOR'S WELL NO. ONE
 API WELL NO. 47-091-0441
 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 1508 WATER SHED DRY FORK OF LOST RUN
 DISTRICT BOOTH'S CREEK COUNTY TAYLOR
 QUADRANGLE FARMONT EAST 7.5 Fairmont 15' C5
 SURFACE OWNER JOHN A. KNOTTS ACREAGE 50 of 86.05
 OIL & GAS ROYALTY OWNER JOHN A. KNOTTS LEASE ACREAGE 50 of 86.05
 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 7400'
 WELL OPERATOR FOX DRILLING CO DESIGNATED AGENT ROBERT E. FOX
 ADDRESS P.O. BOX 129 ADDRESS P.O. BOX 129
Glenville, W.Va. 26351 Glenville, W.Va. 26351

NOV 13 1984

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS



Date February 13, 1985
Operator's
Well No. K-5
Farm John A. Knotts
API No. 47 - 091 - 0441

WR-35

FEB 5 1985

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

FEB 13 1985

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

LOCATION: Elevation: 1508' Watershed Drv Fork of Lost Run
District: Boothscreek County Taylor Quadrangle Fairmont East

COMPANY Keelex Corporation

ADDRESS P.O. Box 2564, Clarksburg, WV 26301

DESIGNATED AGENT Robert E. Fox

ADDRESS Glenville, WV 26351

SURFACE OWNER John A. Knotts

ADDRESS Rt. 4, Box 79, Grafton, WV 26354

MINERAL RIGHTS OWNER John A. Knotts

ADDRESS Rt. 4, Box 79, Grafton, WV 26354

OIL AND GAS INSPECTOR FOR THIS WORK

Don Ellis ADDRESS Belmont, WV 26314

PERMIT ISSUED 9/20/84

DRILLING COMMENCED 11/19/84

DRILLING COMPLETED 11/28/84

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 Cond.			
11 3/4" x 13 x 16"	37'	0	-----
9 5/8			
8 5/8	1479'	1479'	360 sks. Fill to Surface
7			
5 1/2			
4 1/2	7804'	7804'	205 sks. 1000' fill up
3			
2 3/8"	7549'	7549'	-----
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Sand Depth 7708' feet

Depth of completed well 7818 feet Rotary X / Cable Tools

Water strata depth: Fresh 40 feet; Salt X feet

Coal seam depths: Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Chert Pay zone depth 7528'-96' feet

Gas: Initial open flow Show Mcf/d Oil: Initial open flow Bbl/d

Final open flow 331 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

(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

(Continue on reverse side)

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

Perforations: *main chert* { (7528'-32') 5 holes, (7548' - 51') 4 holes, (7557' - 62') 10 holes,
 (7585'-90') 11 holes, (7594'-96') 4 holes.
 34 holes total, .49"

Well fractured by Halliburton Services - 1/18/85. First Stage: breakdown: 3700#, 715 bbl. sand laden fluid, average rate 35 BPM, average pressure 4300#, H.H.P. 3717, 10,000 lbs. 80/100 55,600 lbs. 20/40 sand, 8815 gals. 31% Hcl acid.
Second Stage: breakdown: 2500#, 730 bbls. sand laden fluid, average rate 34 BPM, average pressure 4800#, H.H.P. 4000, 10,000 lbs. 80/100 sand, 55,700 lbs. 20/40 sand 8000 gals. 31% 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
					<u>Gas Test</u> 2208' - no show 3000' - no show 4000' - no show 5000' - no show 6000' - no show 7000' - no show 7800' - no show

(Attach separate sheets as necessary)

Keelex Corporation

Well Operator

By: *A. J. Sabatino*

Date: February 13, 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 coal, encountered in the drilling of a well."

091-0441

Sand	0'	160'
Shale	160'	245'
Sand	245'	306'
Shale	306'	576'
Sand	576'	700'
Shale	700'	895'
Sand	895'	925'
Shale	925'	1060'
Little Lime	1060'	1071'
Shale	1071'	1096'
Big Lime	1096'	1268'
Big Injun ^{GR}	1268'	1320'
Shale	1320'	1624'
Gantz	1624'	1635'
Shale	1635'	1681'
50' Sand	1681'	1690'
Shaley Sand	1690'	2027'
Gordon	2027'	2038'
Shale	2038'	2104'
4th Sand	2104'	2123'
Sand & Shale	2123'	2216'
5th Sand	2216'	2258'
Shale	2258'	2908'
Speechley	2908'	2916'
Shale	2916'	3235'
Balltown	3235'	3246'
Shale	3246'	3940'
Bradford	3940'	3950'
Shale	3950'	4066'
Riley	4066'	4085'
Shale	4085'	4192'
Benson	4192'	4204'
Shale	4204'	4372'
1st Elk	4372'	4382'
Shale	4382'	4564'
2nd Elk	4564'	4578'
Shale	4578'	4850'
3rd Elk	4850'	4860'
Shale	4860'	6420'
Sycamore Grit	6420'	6460'
Shale	6460'	7140'
Tulley Lime	7140'	7206'
Shale	7206'	7406'
Marcellus Shale	7406'	7505'
Onondaga Lime	7505'	7516'
Chert	7516'	7707'
Oriskany	7707'	7710'
<u>Helderberg</u>	7710'	7813'
TOTAL DRILLERS DEPTH		<u>7813'</u>



1) Date: 20 Sept, 19 84
 2) Operator's Well No. Knotts- # 1
 3) API Well No. 47 - 091 - 0441
 State County Permit

FILE COPY
RECEIVED
 OCT 30 1984

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

OIL & GAS DIVISION
DEPT. OF MINES

- 4) WELL TYPE: A Oil XXXX / Gas XXXX /
 B (If "Gas", Production XXXX / Underground storage / Deep XXXX / Shallow)
- 5) LOCATION: Elevation: 1508' Watershed: Dry fork of Lost Run
 District: Boothcreek County: Taylor Quadrangle: Fairmont East
- 6) WELL OPERATOR Fox Drilling Co. Inc. 18,000 7) DESIGNATED AGENT Robert E. Fox
 Address P.O. Box 129 Address P.O. Box 129
Glenville, WV 26351 Glenville, WV 26351
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Donald Ellis Name Fox Drilling Co. Inc
 Address P.O. Box 47 Address P.O. Box 129
Belmont, WV 26314 (684-7082) Glenville, WV 26351
- 10) PROPOSED WELL WORK: Drill XXXX / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Oriskany
- 12) Estimated depth of completed well, 7400 feet
- 13) Approximate trata depths: Fresh, 60-120 feet; salt, feet.
- 14) Approximate coal seam depths: 503 Is coal being mined in the area? Yes / No XXXX
- 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	11.75	API	42	X		90'	90'	To Surf	Kinds
Fresh water									Sizes
Coal									Depths set
Intermediate	8.625	J 55	23	X		1200'	1200'	To surf	
Production	4.50	N80	10.5	X			7400	1000 sks	
Tubing									Perforations:
Liners									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47 - 091 - 0441 Date October 30, 19 84

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 October 30, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>67</u>	<u>MW</u>	<u>MW</u>	<u>MW</u>	<u>09676</u>

Margaret J. Hesse
 Administrator, Office of Oil and Gas

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