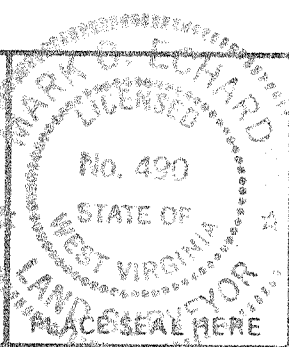


TYGART EAST CO.  
 RICHARD MASON HESS, ET AL.  
 NORTH

LONGITUDE 60°05'00"  
 6000'  
 L.155  
 L.23W  
 L.155  
 L.23W  
 RICHARD MASON HESS, ET AL.  
 RICHARD MASON HESS, ET AL.  
 COAL OWNERSHIP:  
 HILLMAN COAL CO.  
 1900 GRANT BUILDING  
 PITTSBURGH, PA. 15219

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/2500  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 3000' ± S.E. OF LOCATION, ELEV. = 1617

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 MARCH 21, 1985  
 OPERATOR'S WELL NO. ONE  
 API WELL NO. \_\_\_\_\_  
 47-091-0479  
 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 1260' WATER SHED UNNAMED DRAIN INTO TYGART VALLEY RIVER  
 DISTRICT BOOTH'S CREEK 1 342 COUNTY TAYLOR 091  
 QUADRANGLE FAIRMONT EAST 7.5' 15' CS 041  
 SURFACE OWNER LONNIE NEWBRAUGH HEIRS ACREAGE 50  
 OIL & GAS ROYALTY OWNER ELEANOR IRENE CURREY, ET AL. LEASE ACREAGE 50  
 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 303 ESTIMATED DEPTH 8000'  
 WELL OPERATOR FOX DRILLING CO., INC. DESIGNATED AGENT MR. ROBERT E. FOX  
 ADDRESS P.O. BOX 129 ADDRESS P.O. BOX 129 (380)  
 GLENVILLE, WV 26351 GLENVILLE, WV 26351

APR 08 1985  
 DEEP WELL



IV-35  
(Rev 8-81)

Date June 4, 1985  
Operator's  
Well No. K-3  
Farm L. Newbraugh  
API No. 47-91-0479

State of West Virginia  
Department of Mines  
Oil and Gas Division

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1260' Watershed Tygart Valley River  
District: Boothcreek County Taylor Quadrangle Fairmont East 7.5

COMPANY Keelex Corporation  
ADDRESS Box 2564 Clarksburg, WV 26301  
DESIGNATED AGENT Robert E. Fox  
ADDRESS Glenville, WV 26351  
SURFACE OWNER Lonnie Newbraugh Heirs  
ADDRESS \_\_\_\_\_  
MINERAL RIGHTS OWNER E. I. Currey, Et. Al.  
ADDRESS \_\_\_\_\_  
OIL AND GAS INSPECTOR FOR THIS WORK Don  
Ellis ADDRESS Belmont, WV 26314  
PERMIT ISSUED March 27, 1985  
DRILLING COMMENCED March 31, 1985  
DRILLING COMPLETED April 9, 1985  
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.			
1 13/4" 13-10"	37'	0	-----
9 5/8			
8 5/8 "	1393'	1393'	400 sks to surface
7			
5 1/2			
4 1/2 "	7559'	7559'	205 sks. 1000' fill u
3			
2 3/8"	7337'	7337'	-----
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Sand Depth 7417' feet  
Depth of completed well 7568 feet Rotary X / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 80' feet; Salt X feet  
Coal seam depths: 175' - 180' Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Chert Pay zone depth (7241' - 81') feet  
Gas: Initial open flow Show Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 1250 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: <sup>muonterville</sup> (7241'-50') 11 holes, (7258'-62') 5 holes,  
(7274'-81') 9 holes. 25 holes total .49"

Well fractured by Halliburton Services 5/15/85.

Breakdown: 3800#, 1722 BBls. sand laden fluid, average rate 35.9 BPM,  
average pressure 4500#, H.H.P. 3960, 10,000 lbs. 80/100 sand,  
100,000 lbs, 20/40 sand, 10,500 gals. 31.45% 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
Sand			0'	175'	Gas Test
Coal			175'	180'	
Sandy Shale			180'	560'	2022' No Show
Red Shale			560'	570'	3257' No Show
Shale			570'	859'	4011' No Show
Little Lime			859'	869'	4324' No Show
Shale			869'	892'	4730' No Show
Big Lime			892'	1017'	5327' No Show
Big Injun			1017'	1100'	5891' No Show
Shale			1100'	1428'	7400' No show
Gantz			1428'	1440'	
Shale			1440'	1513'	
50'			1513'	1536'	
Sandy Shale			1536'	1835'	
Gordon			1835'	1851'	
Sandy Shale			1851'	1906'	
4th. Sand			1906'	1925'	
Sandy Shale			1925'	2022'	
5th Sand			2022'	2068'	
Shale			2068'	2712'	
Speechley			2712'	2722'	
Shale			2722'	3030'	
Balltown			3030'	3035'	
Shale			3035'	3964'	
Riley			3964'	4026'	
Shale			4026'	4080'	
Benson			4080'	4110'	
Shale			4110'	4260'	
1st Elk			4260'	4284'	
Shale			4284'	4467'	
2nd. Elk			4467'	4472'	
Shale			4472'	4740'	
3rd. Elk			4740'	4755'	
Shale			4755'	6234'	
Sycamore Grit			6234'	6264'	
Shale			6264'	6870'	
Tulley Lime			6870'	6931'	

(Attach separate sheets as necessary)

Keelex Corporation  
Well Operator  
By: D. J. Sabatino  
Date: June 4, 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."

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

091 479, Pg. 2

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Shale			6931'	7122'	
Marcellus Shale			7122'	7217'	
Ononodaga Lime			7217'	7226'	
Chert			7226'	7417'	
Oriskany Sand			7417'	7427'	
Helderberg Lime			7427'	7568'	
TOTAL DRILLERS DEPTH					<u>7568'</u>

(Attach separate sheets as necessary)

Keelex Corporation  
Well Operator  
By: A. J. Sabat  
Date: June 4, 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."

OCT 15 1985

**RECEIVED**

MAR 27 1985



1) Date: 22 March, 19 85  
 2) Operator's Newbraugh #1  
 Well No. \_\_\_\_\_  
 3) API Well No. 47 - 091 - 0479  
 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

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 \_\_\_\_\_ Gas XX  
 B (If "Gas", Production XX / Underground storage \_\_\_\_\_ / Deep XX / Shallow \_\_\_\_\_)  
 5) LOCATION: Elevation: 1260' Watershed: Tygart Valley River  
 District: Boothcreek County: Taylor Quadrangle: Fairmont East 7.5  
 6) WELL OPERATOR Fox Drilling Co. Inc. 18000 7) DESIGNATED AGENT Robert F. 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 Dorald Ellis Name Fox Drilling Co. Inc.  
 Address 2604 Crabapple Lane Address P.C. Box 129  
Fairmont W.V. 26554 Glenville, W.V. 26351  
 10) PROPOSED WELL WORK: Drill XX / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate XX /  
 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, 80-180 feet; salt, \_\_\_\_\_ feet.  
 14) Approximate coal seam depths: 100' 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	Left in well		
Conductor	11 3/4			X		<u>40 250'</u>	<u>250</u>	<u>CTS</u>	<u>By Rule 15105</u>
Fresh water									
Coal									Sizes
Intermediate	8 5/8	J55	23.0	X		<u>1325 1600</u>	<u>1325 1600</u>	To Surface	<u>CTS By Rule 15105</u>
Production	4 1/2	N80	11.6	X			<u>8000'</u>	1000 SKS	Depths set <u>By Rule 15101</u>
Tubing									
Liners									Perforations: Top _____ Bottom _____

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-091-0479 Date March 27, 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 27, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>67</u>	<u>SW</u>	<u>Ant</u>	<u>Int.</u>	<u>21.55</u>

James W. Teshalov  
 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