

87B 8/26/87

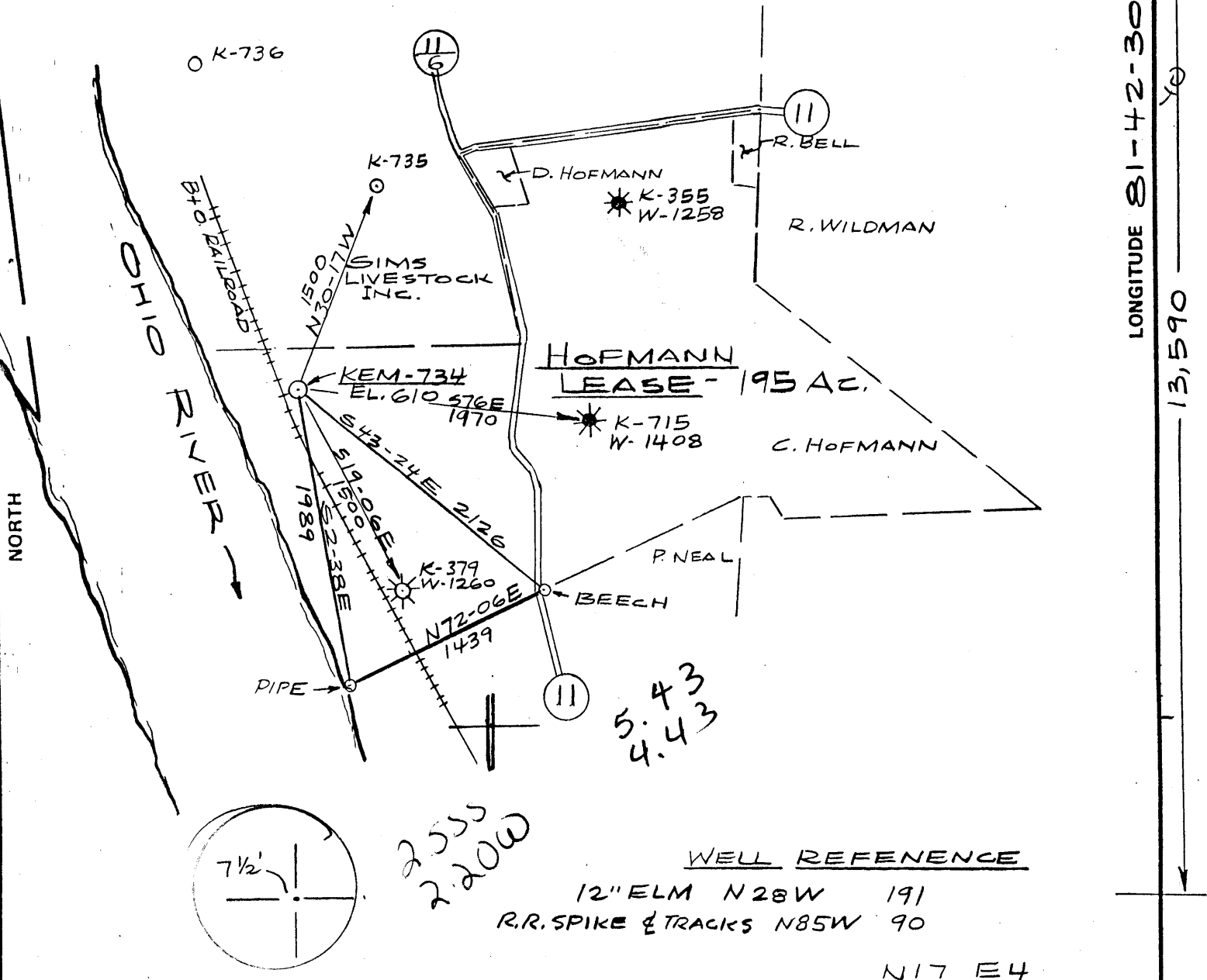
11,570

18

LATITUDE 39-12-30

LONGITUDE 81-42-30

13,590



WELL REFERENCE  
 12" ELM N28W 191  
 R.R. SPIKE & TRACKS N85W 90  
 N17 E4

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION INTERSECTION  
 CO. RD. 11+1/2, ELEV = 644

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) Rance R Boice  
 R.P.E. \_\_\_\_\_ L.L.S. 667

PLACE SEAL HERE

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



DATE AUGUST 14, 19 87  
 OPERATOR'S WELL NO. KEM-734  
 API WELL NO. \_\_\_\_\_  
47 - 107 - 1413  
 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 610 WATER SHED OHIO RIVER  
 DISTRICT HARRIS 2 COUNTY WOOD  
 QUADRANGLE LUBECK 7 1/2 449 009 NW1 Belleville  
 SURFACE OWNER WILBERT G + CLARA HOFMANN ACREAGE 189.69  
 OIL & GAS ROYALTY OWNER WILBERT G + CLARA HOFMANN LEASE ACREAGE 195  
 LEASE NO. 86-02-1938  
 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 BEREA ESTIMATED DEPTH 1875 6-6 New England (296) AUG 31 1987  
 WELL OPERATOR KAISER EXPLOR + MIN. CO. DESIGNATED AGENT R. A. PRYCE  
 ADDRESS P.O. Box 8 465 ADDRESS P.O. Box 8  
RAVENSWOOD, WV 26164 RAVENSWOOD, WV 26164

IV-35  
(Rev 8-81)

RECEIVED



OCT 05 1987 State of West Virginia  
W. VA. OIL & GAS CONSERVATION COMMISSION  
Department of Mines  
Oil and Gas Division

Date October 2, 1987  
Operator's BW #28  
Well No. (KEM #734)  
Farm Wilbert Hofmann  
API No. 47-107-1413

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 X /)

LOCATION: Elevation: 610' Watershed Ohio River  
District: Harris County Jackson Quadrangle Lubeck

COMPANY Peake Energy, Inc.  
ADDRESS P. O. Box 8, Ravenswood, WV 26164  
DESIGNATED AGENT R. A. Pryce  
ADDRESS Same  
SURFACE OWNER Wilbert Hofmann  
ADDRESS Rt. 1, Box 42, New England, WV  
MINERAL RIGHTS OWNER Same  
ADDRESS \_\_\_\_\_  
OIL AND GAS INSPECTOR FOR THIS WORK Glen  
Robinson ADDRESS Mt. Pleasant Estate, Mineral Wells, WV  
PERMIT ISSUED \_\_\_\_\_  
DRILLING COMMENCED 9/18/87  
DRILLING COMPLETED 9/22/87  
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.			
10 3/4"	10 3/4"	257'	175 sks class
9 5/8			
8 5/8			
7	7"	1894'	100 sks class A, 100 sks pozmix
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Berea Sandstone Depth 1805 feet  
Depth of completed well 1913' feet Rotary X / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh -- feet; Salt -- feet  
Coal seam depths: N/A Is coal being mined in the area? NO  
Drilled on fluid not known.

OPEN FLOW DATA

Producing formation Berea Sandstone Pay zone depth 1805-1807 feet  
Gas: Initial open flow -- Mcf/d Oil: Initial open flow -- Bbl/d  
Final open flow (200) Mcf/d Final open flow -- Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 800 psig (surface measurement) after 72 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 PERFORMED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

9/25/87 Young Wireline perforated Berea from 1805' to 1807' with 16 .39" diameter shots.

9/28/87 NOWSCO 75% foam fractured the Berea with 45,000# of 20/40 sand and 15,000# of 10/20 sand, 648,000 scf of nitrogen, and 319 bbls of water at 1450 psig. ISIP: 1160 psig. 5 min SIP: 1080 psig.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga
Shale			0	42	
Sand			42	100	
Shale & Siltstone			100	306	
Sand			306	394	
Shale			394	423	
Sand			423	447	
Shale & Siltstone			447	849	
Sand			849	875	
Shale			875	1030	
Dunkard Sands			1030	1230	
Shale			1230	1310	
Salt Sands			1310	1436	
Shale			1436	1790	
Coffee Shale (Sunbury)			1790	1806	
Berea Sand			1806	1810	
Shale			1810	1913	
Total Depth			1913		

(Attach separate sheets as necessary)

Peake Energy, Inc.  
Well Operator

By: R. A. P.

Date: October 2, 1987

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic  
540 detailed geological record of all formations, including  
encountered in the drilling of a well."

FORM WVA-2 (B) FILE COPY  
**RECEIVED**  
 AUG 25 1987



1) Date: August 20, 19 87  
 2) Operator's Well No. KEM #734  
 3) API Well No. 47 State 107 County 1413 Permit

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

- 4) WELL TYPE: A Oil  / Gas  /  
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow  )
- 5) LOCATION: Elevation: 610' / Watershed: Ohio River  
 District: Harris / County: Wood / Quadrangle: Lubeck 449
- 6) WELL OPERATOR Kaiser Exploration and Mining Company CODE: 25550  
 Address P. O. Box 8  
Ravenswood, WV 26164
- 7) DESIGNATED AGENT R. A. Pryce  
 Address Same
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name Glen Robinson  
 Address Mt. Pleasant Estate  
Mineral Wells, WV
- 9) DRILLING CONTRACTOR:  
 Name Unknown  
 Address \_\_\_\_\_
- 10) PROPOSED WELL WORK: Drill  / Drill deeper  / Redrill  / Stimulate  /  
 Plug off old formation  / Perforate new formation  /  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Berea
- 12) Estimated depth of completed well, 1903' feet
- 13) Approximate strata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.
- 14) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes  / No  /

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									Kinds
Fresh water	10 3/4"			X		250'	250'	Cement to surface	Sizes
Coal									Depths
Intermediate									Perforations:
Production	7"			X		1903'	1903'	100 sks 50/50 pozmix	Top Bottom
Tubing									
Liners									

OFFICE USE ONLY  
**DRILLING PERMIT**

47-107-1413

August 28 19 87

Permit number \_\_\_\_\_

Date \_\_\_\_\_

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 August 28, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>228</u>	Other: <u>[Signature]</u>	Other: <u>[Signature]</u>
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970203

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

Director, Division of Oil and Gas

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.