

SFB 8/26/87

15' 330'

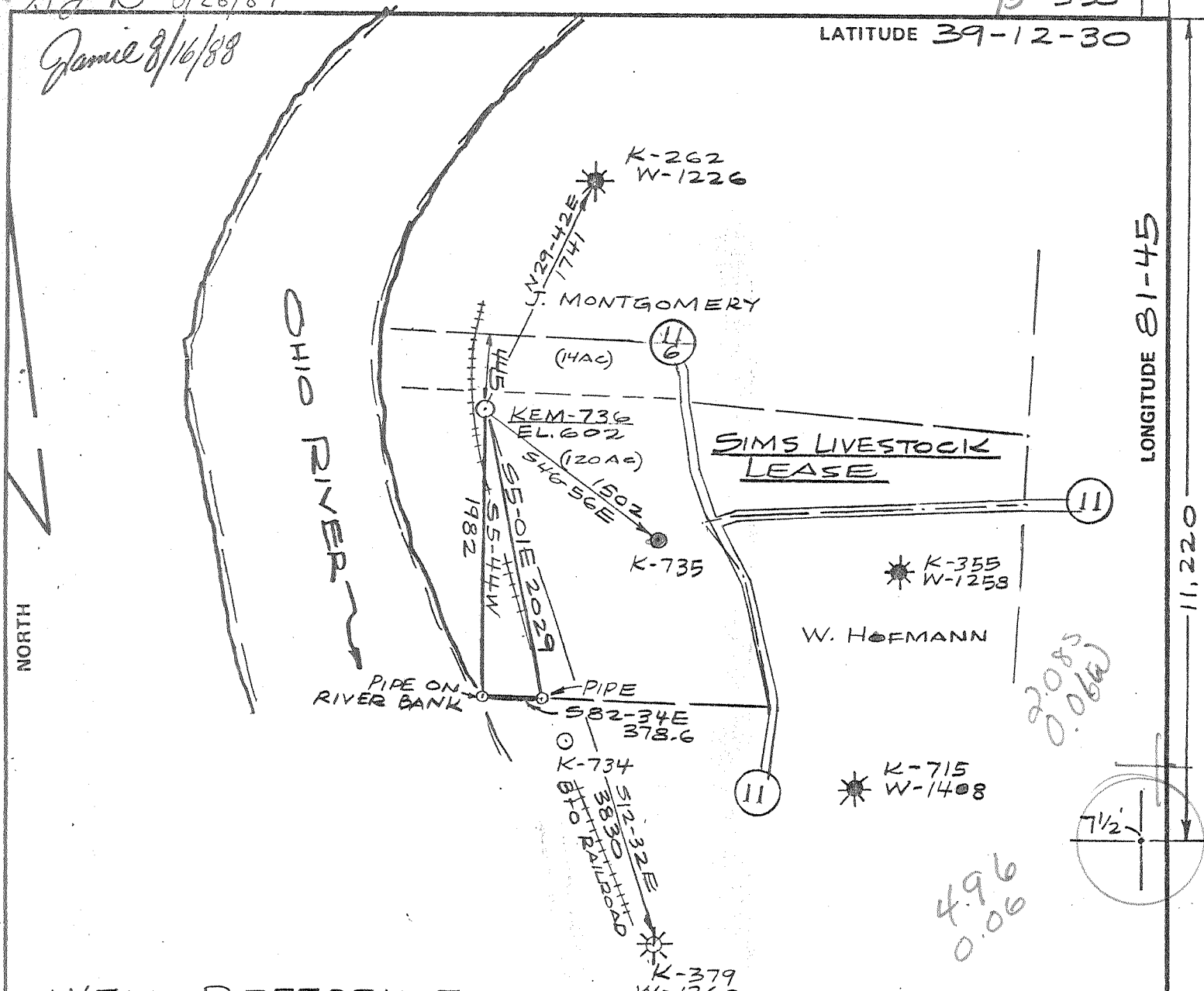
Jamie 9/16/88

LATITUDE 39-12-30

NORTH

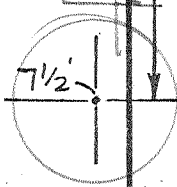
LONGITUDE 81-45

11.220



2085
0.064

4.96
0.06



WELL REFERENCE

SPIKE IN R.R. TIE	N57-20W	87.2
" " " "	S55-53W	95

N17 E 4

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION INT. CO. RD. 11+11/6, 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) Ranell 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, 1987
 OPERATOR'S WELL NO. KEM-736
 API WELL NO. _____
47 - 107 - 1411-Prod.
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 602 WATER SHED OHIO RIVER
 DISTRICT HARRIS 2 COUNTY WOOD
 QUADRANGLE COOLVILLE 7 1/2 304 0643
 SURFACE OWNER SIMS LIVESTOCK INC ACREAGE 134 ±
 OIL & GAS ROYALTY OWNER SIMS LIVESTOCK INC LEASE ACREAGE 167.75
 LEASE NO. _____
 PROPOSED WORK: DRILL X 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 4050
 WELL OPERATOR KAISER EXPLOR. + MINING DESIGNATED AGENT R. A. PRYCE
 ADDRESS P.O. Box 8 465 ADDRESS P.O. Box 8
RAVENSWOOD, WV 26164 RAVENSWOOD, WV 26164

AUG 22 1988

WOOD 1411-Prod.

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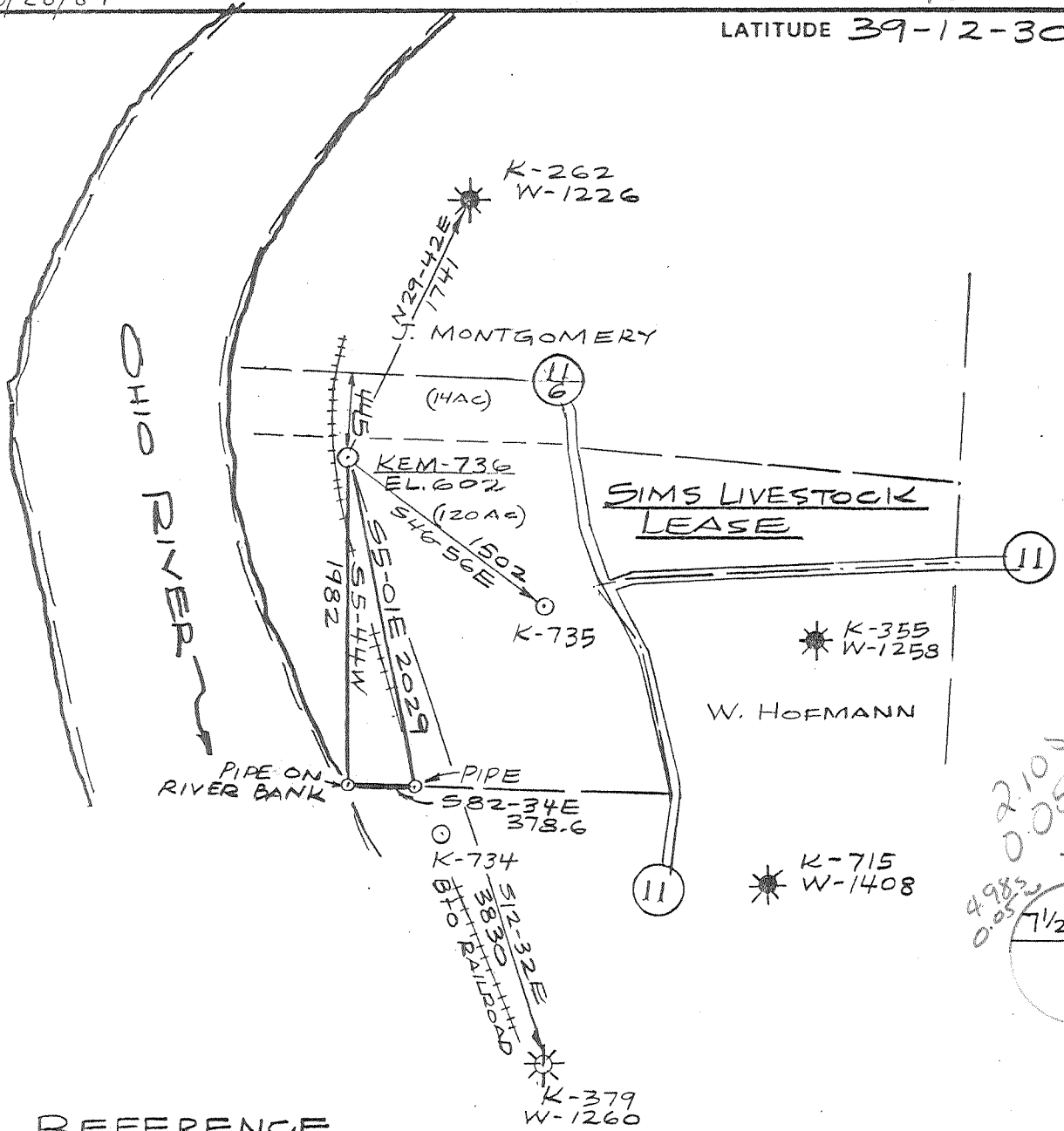
87B 8/26/87

15330

LATITUDE 39-12-30

LONGITUDE 81-45

NORTH



WELL REFERENCE

SPIKE IN R.R. TIE N57-20W 87.2
 " " " " S55-53W 95

N17 E4

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION INT. CO. RD.
11+11/6, 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) Ranell 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, 1987
 OPERATOR'S WELL NO. KEM-736
 API WELL NO. 47-107-1411
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 602 WATER SHED OHIO RIVER
 DISTRICT HARRIS COUNTY WOOD
 QUADRANGLE COOLVILLE 7 1/2 304 064 B Keno NE
 SURFACE OWNER SIMS LIVESTOCK INC ACREAGE 134 ±
 OIL & GAS ROYALTY OWNER SIMS LIVESTOCK INC. LEASE ACREAGE 167.75
 LEASE NO. _____

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 6-6 New England (296)

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG DEEP WELL
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 4050
 WELL OPERATOR KAISER EXPLOR. + MINING DESIGNATED AGENT R. A. PRYCE
 ADDRESS P.O. BOX 8 ADDRESS P.O. BOX 8
RAVENSWOOD, WV 26164 RAVENSWOOD, WV 26164



1) Date: August 20, 19 87
 2) Operator's Well No. KEM #736
 3) API Well No. 47 State 107 County 1411 Permit

RECEIVED
AUG 25 1987

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

**DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY**

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep X / Shallow _____)
- 5) LOCATION: Elevation: 602' Watershed: Ohio River
 District: Harris County: Wood 107 Quadrangle: Coolville 304
- 6) WELL OPERATOR Kaiser Exploration and Mining Company CODE: 25550 7) DESIGNATED AGENT R. A. Pryce
 Address P. O. Box 8 Address Same
 Ravenswood, WV 26164
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Glen Robinson Address Mt. Pleasant Estates Mineral Wells, WV 26150
- 9) DRILLING CONTRACTOR: Name Unknown Address _____
- 10) PROPOSED WELL WORK: Drill X / 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, 4065' feet
- 13) Approximate strata depths: Fresh, _____ feet; salt, _____ feet.
- 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No X /
- 15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE ¹	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		Kinds	Sizes
Conductor										
Fresh water	10 3/4"			X		250'	250'	Cement to surface		
Coal										
Intermediate	7"			X		1530'	1530'	Cement to surface		
Production	4 1/2"			X		4065'	4065'	250 sks 50/50 mix		
Tubing										
Liners									Perforations:	
									Top	Bottom

**OFFICE USE ONLY
 DRILLING PERMIT**

47-107-1411

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.

August 28, 1989

Permit expires _____ unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: ✓	Agent: ✓	Plan: [Signature]	Casing: [Signature]	Fee: 228 970203	WPCR: [Signature]	Other: [Signature]
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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.



IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

Date October 20, 1987
Operator's
Well No. PKE #736
Farm Sims
API No. 47 - 107 - 1411

10/23/87

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: 602' Watershed Ohio River
District: Harris County Wood Quadrangle Coolville

COMPANY Kaiser Exploration & Mining Co.
ADDRESS P. O. Box 8, Ravenswood, WV 26164
DESIGNATED AGENT R. A. Pryce
ADDRESS Same
SURFACE OWNER Sims Livestock, Inc.
ADDRESS Rt. 1, Box 38, New England, WV 26181
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 9/22/87
DRILLING COMPLETED 9/28/87
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing Tubing Size 20-16 Cond.	Used in Drilling	Left in Well	Cement fill up Cu. ft.
10 3/4"	10 3/4"	257'	175 sks cl
9 5/8			
8 5/8			
7	7"	1548'	400 sks c
5 1/2			
4 1/2	4 1/2"	4046'	186 sks c
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Sandstone Depth 3980 feet
Depth of completed well 4070 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 Oriskany Sandstone Pay zone depth 3980 - 3986 feet
Gas: Initial open flow -- Mcf/d Oil: Initial open flow -- Bbl
Final open flow 300 Mcf/d Final open flow -- Bbl
Time of open flow between initial and final tests 4 hours
Static rock pressure 1125 psig (surface measurement) after 72 hours shut
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow -- Mcf/d Oil: Initial open flow -- Bbl
Final open flow _____ Mcf/d Oil: Final open flow -- Bbl
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut

(Continue on reverse side)

OCT 25 1987

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

10/01/87 Young Wireline perforated the Oriskany from 3980' - 3986' with 24 holes (0.39") shots.

10/02/87 Nowsco 75% foam fractured the Oriskany with 30,000# of 20/40 sand, 462,924 scf of nitrogen and 208 bbls of water at 2300 psig.
ISIP: 1800 psig 5 min SIP: 1760 psig

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all f and salt water, coal, oil and
Sand			0	70	
Shale			70	322	
Sand			322	375	
Shale & Siltstone			375	1022	
Dunkard Sands			1022	1184	
Shale			1184	1256	
Salt Sands			1256	1434	
Shale			1434	1772	
Coffee Shale (Sunbury)			1772	1789	
Berea Sand			1789	1792	S/g
Shale			1792	2921	S/g @ 2470'
Brown Shale (Huron)			2921	3386	S/g @ 3270', 3340'
Shale			3386	3704	
Black Shale (Rhinestreet)			3704	3891	
Onondaga Lime			3891	3976	
Oriskany Sand			3976	4004	S/g @ 3974'
Helderberg Lime			4004	4070	
Total Depth			4070		

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY

Well Operator

By: R. A. P.

Date: October 20, 1987

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."

RECEIVED
AUG 16 1988

Page 1 of _____
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: 08-09-88
Operator's well number
PKE 736
API Well No: 47 - 107 - 1411-FRAC
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name Sims Livestock, Inc.
Address Rt. 1, Box 38
New England, WV 26154

(b) Name _____
Address _____

(c) Name _____
Address _____

6) Inspector Glen Robinson
Address Mt. Pleasant Estates
Mineral Wells, WV 26150
Telephone (304)- 489-9162

5) (a) Coal Operator:
Name _____
Address _____

(b) Coal Owner(s) with Declaration
Name _____
Address _____

Name _____
Address _____

(c) Coal Lessee with Declaration
Name _____
Address _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:

- _____ Personal Service (Affidavit attached)
- _____ Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator PEAKE ENERGY, INC.
By: [Signature]
Its: Designated Agent
Address P. O. Box 8
Ravenswood, WV 26164
Telephone 273-5371

Subscribed and sworn before me this 10th day of August, 1988

[Signature] Notary Public
My commission expires October 28, 1993

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: SIMS LIVESTOCK INC. Operator Well No.: PKE-736

LOCATION: Elevation: 602.00 Quadrangle: COOLVILLE

District: HARRIS County: WOOD
Latitude: 11220 Feet South of 39 Deg. 12Min. 30 Sec.
Longitude: 330 Feet West of 81 Deg. 45 Min. 0 Sec.

Company: PEAKE ENERGY, INC
P. O. BOX 8
RAVENSWOOD, WV

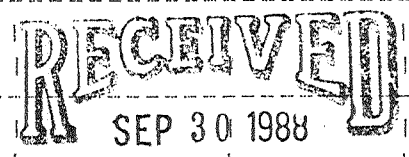
Asent: JOHN V. McCALLISTER

Inspector: GLEN P. ROBINSON
Permit Issued: 08/17/88
Well work Commenced: 8/21/88
Well work Completed: 8/21/88

Verbal Plugging
Permission granted on:
Rotary Cable Rig
Total Depth (feet) 3600
Fresh water depths (ft)

Salt water depths (ft)
Is coal being mined in area (Y/N)? N
Coal Depths (ft):

Casings & Tubing Size	Used in Drilling	Left in Well	Cement Fill Cu. Ft.
Same as previously submitted			



DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation: Devonian Brown Shale Pay zone depth (ft) 3050-3370
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow 100 MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 500 psig (surface pressure) after 48 Hours

Second producing formation Pay zone depth (ft)
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 pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: PEAKE ENERGY, INC
By: John V. McCallister, Asst. Oper. Mngr.
Date: 9/28/88
OCT 10 1988

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

Perforated the Brown Shale through 4½" casing from 3050 ^{→3370} using 30 holes.
Foam - fractured the Brown Shale interval using 60,000 # sand, 692,500 SCF of N₂ and 280 bbl fluid. BD= 1530 psig., ISIP = 110 psig. ATP = 2050 psig.

WELL LOG

FORMATION	TOP	BOTTOM	REMARKS
Same as previously submitted			<p style="text-align: center;">RECEIVED SEP 30 1988 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY</p>

SEP 30 1988

7586