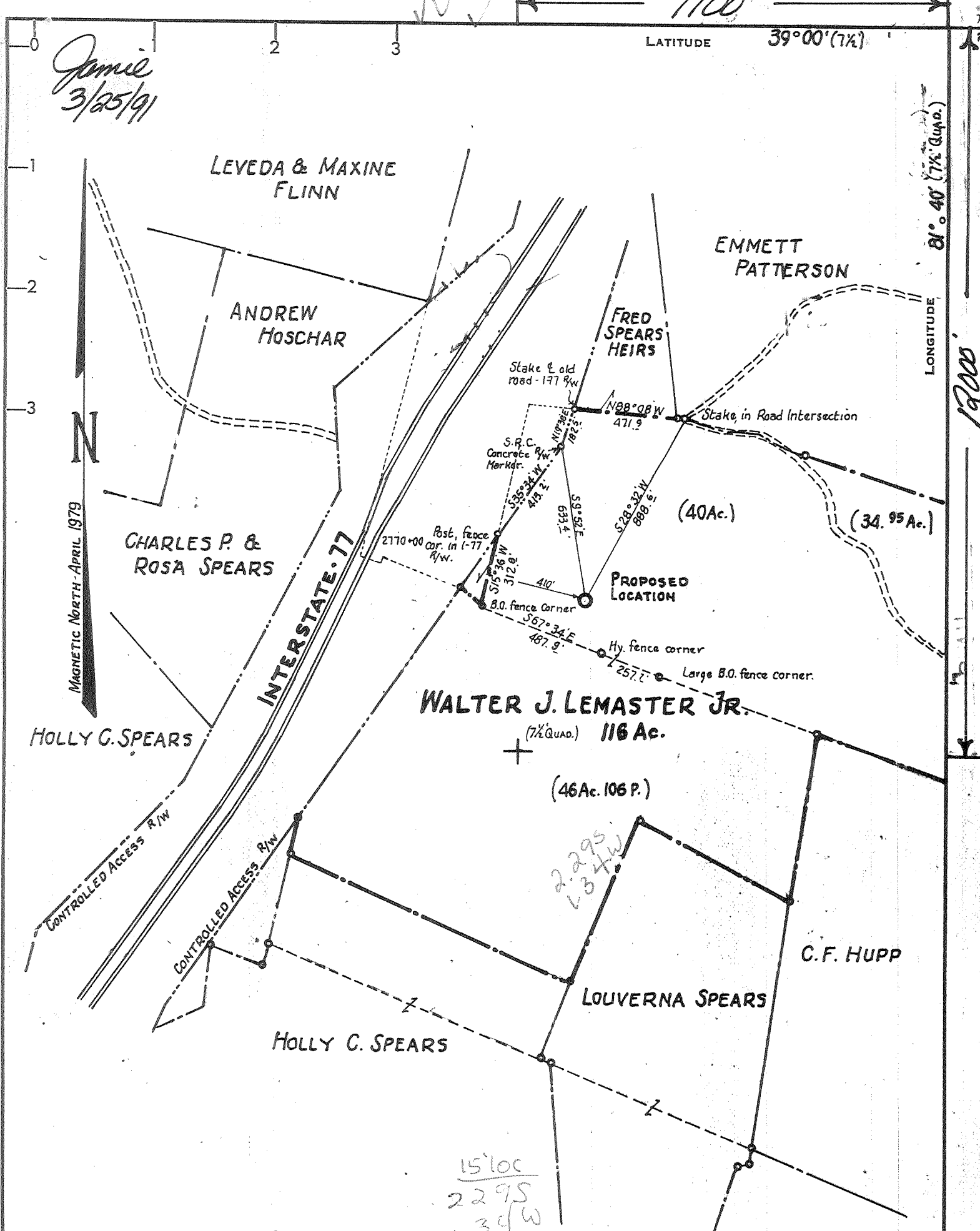


*Jamie*  
*3/25/91*

7100'  
LATITUDE 39°00'(7 1/2')

LONGITUDE 81°40'(7 1/2' Quad.)



- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

**CERTIFICATE**  
"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."  
Minimum degree of accuracy is one part in 200

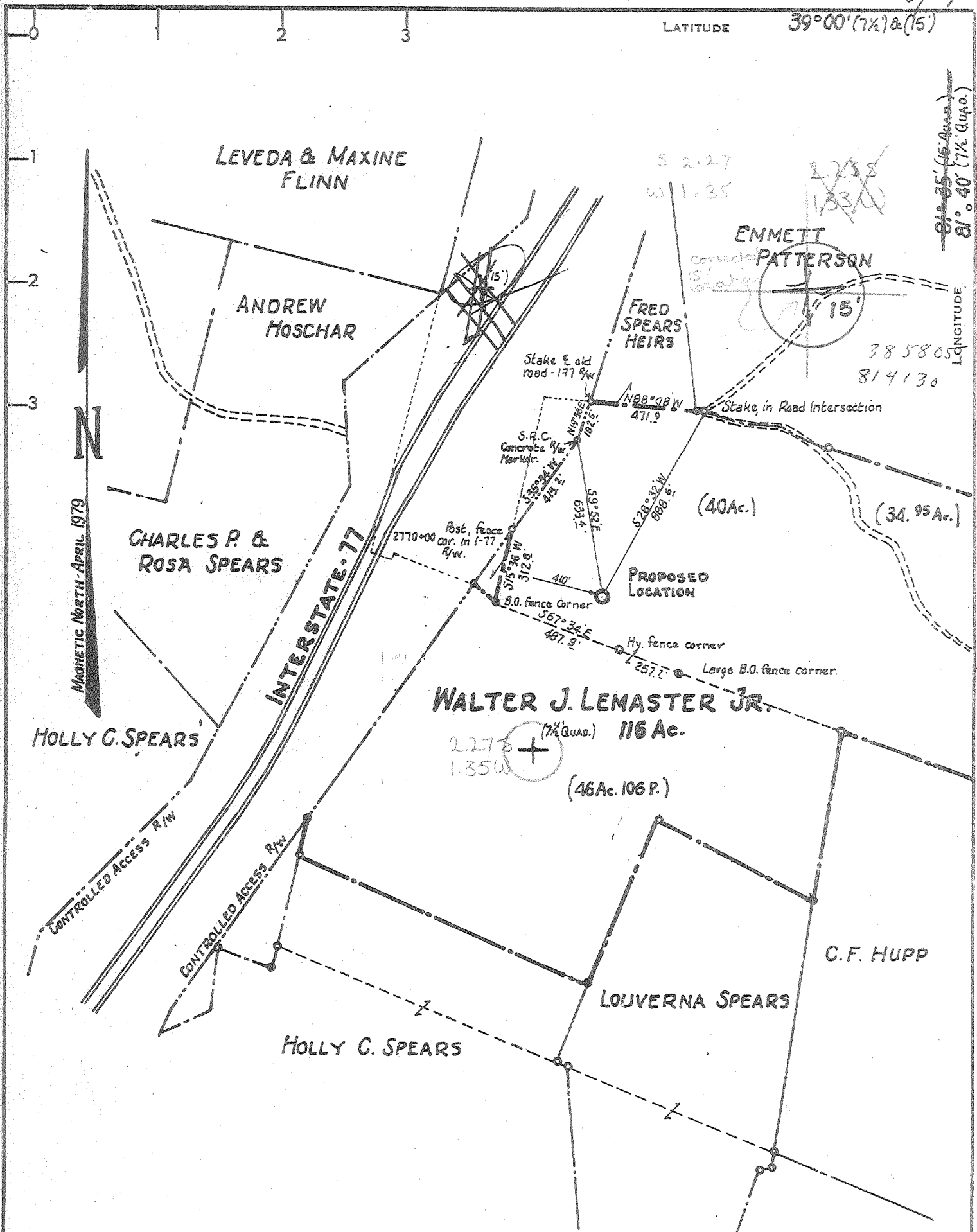
Signed William D. Smith, L.L.S. # 116  
(N.B. No. 116 P. 68 & N.B. No. 117 P. 6.)

COMPANY Peak Energy  
 ADDRESS P.O. Box 8, Cranberry, W.V. 26164  
 FARM WALTER J. LEMASTER JR.  
 MAP \_\_\_\_\_ ACRES \_\_\_\_\_ LEASE NO. \_\_\_\_\_  
 WELL (FARM) NO. 1 SERIAL NO. DEK 70  
 ELEVATION (SPIRIT LEVEL) 1018.2  
 QUADRANGLE RIPLEY N.W. (SANDYVILLE 1: 24,000 QUAD.)  
 COUNTY JACKSON DISTRICT RAVENSWOOD 2  
 POINT OF PROVEN ELEVATION U.S. G. S. DATUM  
ROAD INTERSECTION - 691' FOOT OF HILL & KNOB 996'  
 FILE NO. \_\_\_\_\_ DATE APRIL 26, 1979. DRAWING NO. \_\_\_\_\_ SCALE 1" = 500'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
**WELL LOCATION MAP**  
API Well No. 47-035-1506 F  
 NUMBER LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC  
 MAP SCALE 1:250,000 LATITUDE AND LONGITUDE COORDINATES  
 ARE REPRESENTED BY BORDER LINES AS SHOWN  
 MAR 29 1991

DEEP Well 5020 ORISKANY 6-6 Elk-Poca (Sissonville) (192)

5/15/79



LATITUDE 39°00'(7 1/2) & (15')

LONGITUDE 81° 40' (7 1/2) (Quad.)

38 58 05  
81 41 30

S 2.27  
W 1.35

2.27 35  
1.35

EMMETT PATTERSON

Stake in Road Intersection

N 88° 08' W  
471.9

Stake & old road - 177 9/4

S.R.C. Concrete Marker

530° 32' W  
472.2

59° 52' E  
633.4

528° 32' W  
888.9

(40Ac.)

(34.95Ac.)

2770+00 Post, fence cor. in 1-77 R/W.

515° 30' W  
312.9

410'

567° 34' E  
467.9

Hy. fence corner

257.7' Large B.O. fence corner.

WALTER J. LEMASTER JR.

(7 1/2 QUAD.) 116 Ac.  
2.27 35  
1.35

(46Ac. 106 P.)

**CERTIFICATE**

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Minimum degree of accuracy is one part in 200

Signed *William D. Gault* L.L.S. # 116  
(N.B. No. 116 Pgs. 68 & N.B. No. 117 Pgs. 65.)

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY: KAISER EXPLORATION & MINING CO.  
 ADDRESS: P.O. Box 8, RAVENSWOOD, W.VA. 26164  
 FARM: WALTER J. LEMASTER JR.  
 MAP: ACRES: 1 LEASE NO: DEK 70  
 WELL (FARM) NO: 1018.?  
 ELEVATION (SPIRIT LL):  
 QUADRANT: RIPLEY N.W. (SANDYVILLE 1: 24,000 QUAD.)  
 JACKSON district: RAVENSWOOD  
 U.S. G.S. DATUM  
 ROAD INTERSECTION - 691' FOOT OF HILL & KNOB 996'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
 WELL LOCATION MAP  
**47-035-1506**  
 FILE NO: 47-035-1506

APRIL 26, 1979. *Deep Well 1" - 500'*

MAY 28 1979

5020 ORISKANY 66E (k-foca) (192)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

RECEIVED

FEB 20 1980

OIL & GAS DIVISION  
DEPT. OF MINES  
Cable \_\_\_\_\_ Gas   
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind)

Quadrangle Sandyville

Permit No. 47-035-1506

Company KAISER EXPLORATION AND MINING COMPANY

Address P. O. Box 8, Ravenswood, WV

Farm Walter J. LeMaster, Jr. Acres 116

Location (waters) Straight Fork

Well No. DEK 70 Elev. 1018.7

District Ravenswood County Jackson

The surface of tract is owned in fee by \_\_\_\_\_

Walter J. LeMaster, Jr.

Address Rt. 2, Box 63, Ravenswood, WV

Mineral rights are owned by Same as above

Address Same as above

Drilling Commenced June 14, 1979

Drilling Completed June 23, 1979

Initial open flow 2 MCFD cu. ft. \_\_\_\_\_ bbls.

Final production 30 M cu. ft. per day \_\_\_\_\_ bbls.

Well open 10 hrs. before test 750 RP.

Well treatment details:

Attach copy of cementing record.

Perforated 4 1/2" casing at 4942' to 4944' with 16 shots,  
Frac Oriskany Sand with 948 bbls water and 47,800# sand. No result. Perforated 4 1/2"  
casing 4600' to 4636' with 10 shots. Ran 15,000# 20/40, 20,000# 10/20, 490,000 SCF  
nitrogen; pressure 2100 psi; maximum 4100 psi; well screened off; set permanent plug  
and perforated Brown Shale 4073' - 4211' (K.B.); foam fractured Brown Shale w/60,000#  
sand, 496,000 SCF of nitrogen.

Coal was encountered at None Feet \_\_\_\_\_ Inches

Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_

Producing Sand Brown Shale Depth 4073-4211

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
No Record			0	1200		
Shale			1200	1305		
Sand			1305	1422		
Shale			1422	1517		
Sand			1517	1580		
Shale			1580	1608		
Sand			1608	1650		
Shale			1650	1762		
Sand			1762	1792		
Shale			1792	1900		
Maxton Sand			1900	1948		
Shale			1948	1957		
Big Lime			1957	2062		
Shale			2062	2156		
Injun Sand			2156	2186		
Shale			2186	2480		
Coffee Shale			2480	2510		
Berea Sand			2510	2515		
Shale			2515	3678		
Brown Shale			3678	4213		
Shale			4213	4678		
Marcellus Shale			4678	4832		
Onondaga L. S.			4832	4932		

(over)

\* Indicates Electric Log tops in the remarks section.

MAR 10 1980

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Oriskany Sand			4932	4953		
Helderberg L. S.			4953	5064		
Log Total Depth			5064			

Date February 20 1980

APPROVED Kaiser Exploration and Mining Company

By *[Signature]*  
Operations Manager

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

RECEIVED  
Division of Energy

MAY 13 91

Permitting  
Oil and Gas Section

Well Operator's Report of Well Work

Farm name: LEMASTER, W. J., JR.

Operator Well No.: DEK-70

LOCATION: Elevation: 1018.70 Quadrangle: SANDYVILLE

District: RAVENSWOOD <sup>12<sup>00</sup></sup> County: JACKSON  
Latitude: ~~41109~~ Feet South of 39 Deg. 0 Min. 0 Sec.  
Longitude: ~~7000~~ <sup>7100</sup> Feet West of 81 Deg. 40 Min. 0 Sec.

Company: PEAKE ENERGY, INC.  
P. O. BOX 8  
RAVENSWOOD, WV 26164-0008

Agent: DAVID L. COX

Inspector: GLEN P. ROBINSON  
Permit Issued: 03/28/91  
Well work Commenced: 05/06/91  
Well work Completed: 05/06/91  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary \_\_\_\_\_ Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) \_\_\_\_\_  
Fresh water depths (ft) \_\_\_\_\_

Salt water depths (ft) \_\_\_\_\_

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): NONE

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
NO CHANGE IN EXISTING CASING- SEE			
ORIGINAL WELL RECORD FILED BY			
KAISER EXPLORATION & MINING COMPANY			
ON FEBRUARY 20, 1980			

OPEN FLOW DATA

Producing formation BEREA SANDSTONE Pay zone depth (ft) 2510-14  
Gas: Initial open flow --- MCF/d Oil: Initial open flow -0- Bbl/d  
Final open flow 150 MCF/d Final open flow -0- Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure 500 psig (surface pressure) after 24 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

\*DEVONIAN SHALE IS TEMPORARILY ABANDONED

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: DAVID L. COX, MANAGER OF GEOLOGY  
Date: MAY 10, 1991

MAY 17 1991

FORM WR-35  
 (Reverse)

Division of Energy  
 MAY 13 91

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

MAY 6, 1991: YOUNG'S WIRELINE SET MECHANICAL PLUG IN 4-1/2" CASING AT 2610. PERFORATED THE BEREA SANDSTONE WITH 16 HOLES FROM 2521 TO 2525 (GL) OR 2510-2514 (KB). NOWSCO FOAM FRACTURED THE BEREA USING 45,000# OF SAND, 562,000SCF OF NITROGEN AND 255 BBL OF FLUID.

BDP=3200 PSIG      ATP=1650 PSIG      ISIP=1100 PSIG

WELL LOG

FORMATION	TOP	BOTTOM	REMARKS
<p>NOTE:</p> <p>WELL WAS ORIGINALLY DRILLED BY KAISER EXPLORATION &amp; MINING COMPANY IN JUNE OF 1979. NO CHANGE FROM PREVIOUSLY SUBMITTED WELL RECORDD.</p>			

12010

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

- 1) Well Operator: Peake Energy, Inc. (37085) (2) 597<sup>1012</sup>
- 2) Operator's Well Number: DEK 70 3) Elevation: 1018.7
- 4) Well type: (a) Oil \_\_\_ / or Gas X /  
(b) If Gas: Production \_\_\_ / Underground Storage \_\_\_ /  
Deep \_\_\_ / Shallow X /
- 5) Proposed Target Formation(s): Berea Sandstone  
Old Plug-back
- 6) ~~Proposed~~ Total Depth: 4275 feet Temporary plug-back 2600 ft.
- 7) Approximate fresh water strata depths: none reported when originally drilled
- 8) Approximate salt water depths: 1910, 2050
- 9) Approximate coal seam depths: None
- 10) Does land contain coal seams tributary to active mine? Yes \_\_\_ / No X /
- 11) Proposed Well Work: to set temporary plug below Beria; stimulate by fracturing, then retrieve plug and produce Beria with existing Shale gas.

**CASING AND TUBING PROGRAM**

*Temporary Backs  
The existing well  
Near formation*

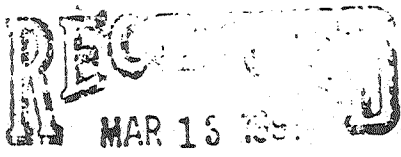
TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Existing casing in-ground						
<del>7/28/91</del> Conductor						
Fresh Water	10 3/4"			203	203	100 sx
Coal						
Intermediate	7"			2616	2616	165 sx
Production	4-1/2"			5033	5033	255 sx
Tubing						
liners						

ACKERS : Kind        \*Well originally drilled in 1979.  
 Sizes         
 Depths set       

**RECEIVED**  
**MAR 16 1991**

For Division of Oil and Gas Use **DIVISION OF OIL & GAS**  
**DEPARTMENT OF ENERGY**

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond *Blanket one*



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

1) Date: February 21, 1991  
2) Operator's well number  
DEK #70  
3) API Well No: 47 - 035 - 1506 F  
State - County - Permit

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

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 Walter J. Lemaster, Jr.  
Address Rt. 2, Box 114  
Ravenswood, WV 26164  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_

5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_

6) Inspector Glen P. Robinson  
Address Box 1  
Belleville, WV 26133  
Telephone (304)- 836-8766

(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:  
X 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 28 day of Feb, 1991

Stephen Kelly Notary Public  
My commission expires October 28, 1993





MAY 15 1979

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,  
Charleston, W. Va.

DATE May 2, 1979

Surface Owner Walter J. LeMaster, Jr.  
Address Rt. 2, Box 63, Ravenswood, WV 26164  
Mineral Owner Same as above  
Address Same as above  
Coal Owner Same as above  
Address Same as above  
Coal Operator None  
Address None

Company Kaiser Exploration and Mining Company  
Address P. O. Box 8, Ravenswood, WV 26164  
Farm Walter J. LeMaster, Jr. Acres 116 Acres  
Location (waters) Straight Fork  
Well No. DEK-70 Elevation 1018.7'  
District Ravenswood County Jackson  
Quadrangle Sandyville

THIS PERMIT MUST BE POSTED AT THE WELL SITE

provisions being in accordance with Chapter 22,  
the W. Va. Code, the location is hereby approved  
for drilling. This permit shall expire if  
operations have not commenced by 1-16-80.

INSPECTOR

TO BE NOTIFIED Richard Morris

ADDRESS P. O. Box 372, Grantsville, WV 26147

PHONE 354-7259

[Signature]  
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated July 17 19 78 by Walter J. LeMaster, et al made to Devon Corporation, et al and recorded on the 1 day of August 1978, in Jackson County, Book 149 Page 76

XXX NEW WELL \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE  
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. \*

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address \_\_\_\_\_ day \_\_\_\_\_ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

W. VA. OIL & GAS CONSERVATION COMMISSION  
613 WASHINGTON STREET, EAST  
CHARLESTON, WEST VIRGINIA 25311  
Address of Operator

Very truly yours,  
(Sign Name) R. A. Pryce  
Well Operator  
R. A. Pryce  
P. O. Box 8  
Street  
Ravenswood  
City or Town  
West Virginia 26164  
State

\*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

47-035-1506

PERMIT NUMBER

[Handwritten Signature]

THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO X DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:  
 NAME Not known at this time. NAME Robert A. Pryce  
 ADDRESS \_\_\_\_\_ ADDRESS P. O. Box 8, Ravenswood, WV 26164  
 TELEPHONE \_\_\_\_\_ TELEPHONE 273-5371  
 ESTIMATED DEPTH OF COMPLETED WELL: 5020 ROTARY X CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Oriskany  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS X COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
16			
10			
9 - 5/8 10 3/4	200	200	Cement to surface
8 - 5/8			
7	2575	2575	125 sk = 570 ft.
5 1/2			
4 1/2	5020	5020	125 sk = 1500 ft.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET SALT WATER \_\_\_\_\_ FEET  
 APPROXIMATE COAL DEPTHS \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA? None BY WHOM? \_\_\_\_\_

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

○ DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the \_\_\_\_\_ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

\_\_\_\_\_  
For Coal Company

\_\_\_\_\_  
Official Title