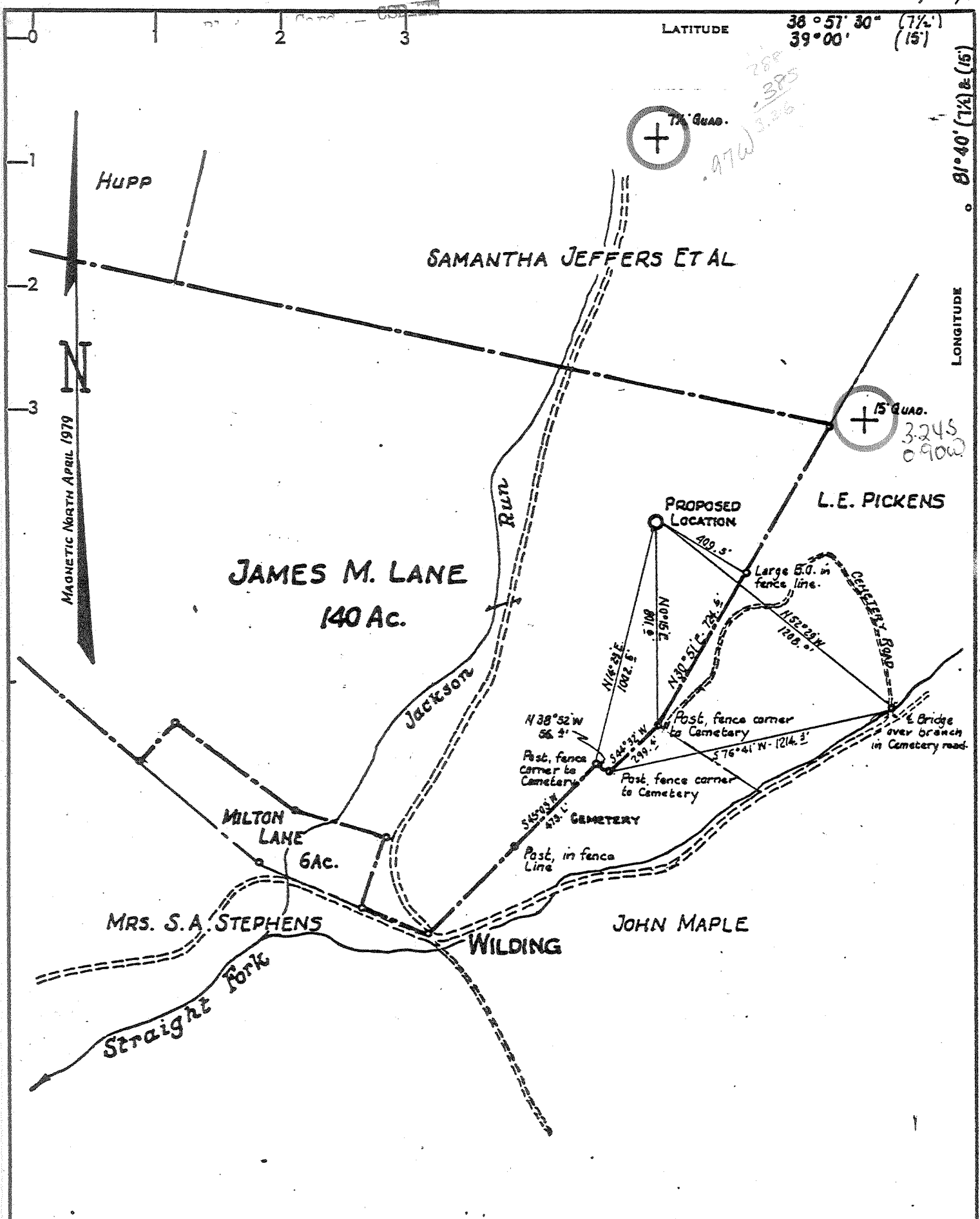


4/24/79



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 S. Gravelly L.L.S. No. 116

(N.B. No. 116 P. 55 & 64)

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY KAISER EXPLORATION & MINING COMPANY
 ADDRESS P.O. BOX 8, RAVENSWOOD, W.VA. 26164
 FARM JAMES M. LANE
 MAP _____ ACRES 140 LEASE NO. DEVON 4503
 WELL (FARM) NO. 1 SERIAL NO. DEK-71
 ELEVATION (SPIRIT LEVEL) 774.86'
 QUADRANGLE RIPLEY N.W. (SANDYVILLE 1:24,000 QUAD.) NW
 COUNTY JACKSON DISTRICT RAVENSWOOD
 POINT OF PROVEN ELEVATION U.S.G.S. DATUM (As Shown Above)

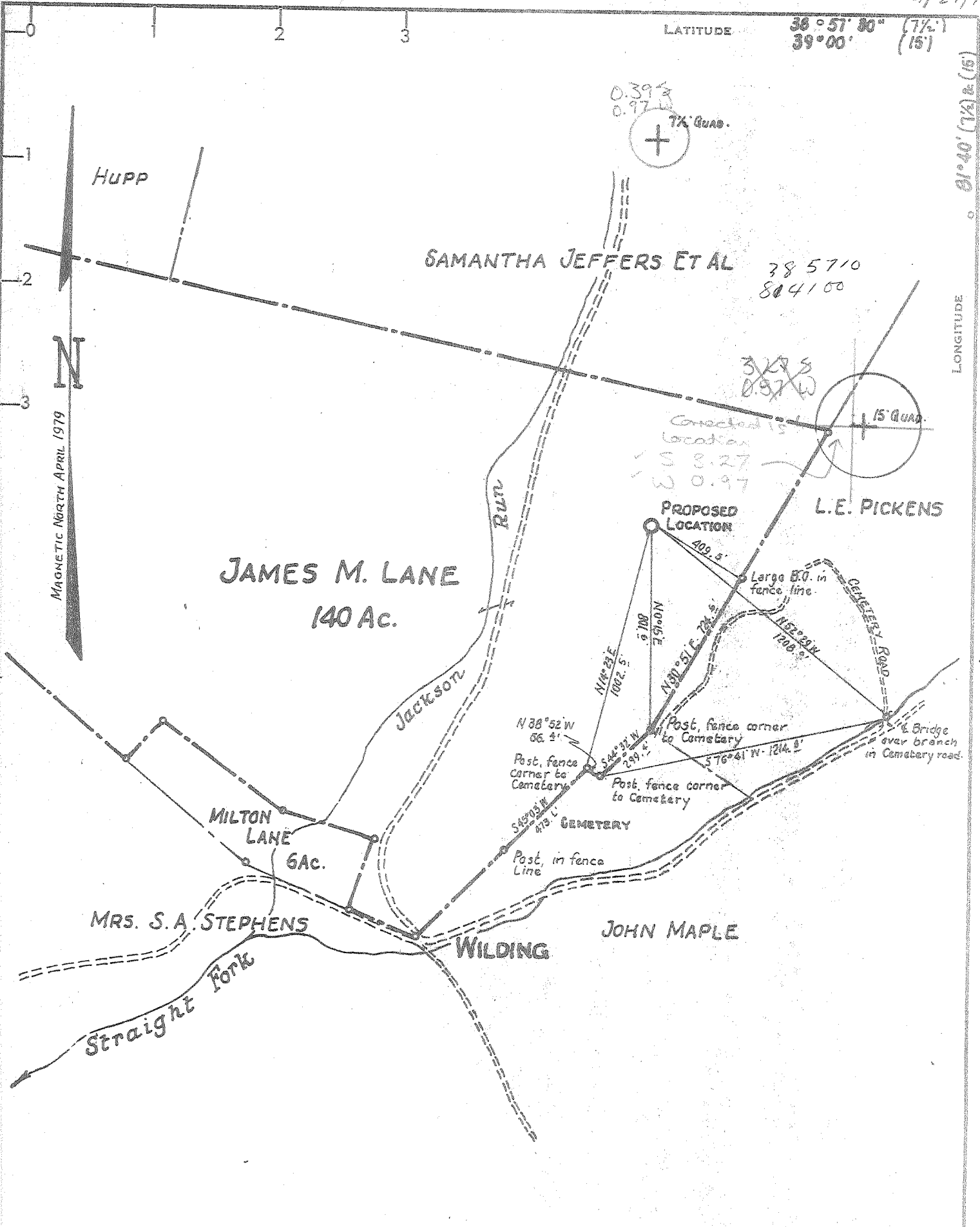
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON 6
 WELL LOCATION MAP
 FILE NO. 47-035-1499P

+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. SCALE 1 TO $\frac{24,000}{62,500}$ LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.
 - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING

FILE NO. _____ DRAWING NO. _____
 DATE APRIL 13, 1979 SCALE 1" = 500'

4800' Oriskany DEEP well APR 28 1981

4/24/79



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 S. Gravelly L.L.S. No. 116

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY **KAISER EXPLORATION & MINING COMPANY**
 ADDRESS **P.O. BOX 8, RAVENSWOOD, W.VA. 26164**
 FARM **JAMES M. LANE**
 MAP **140** ACRES
 LEASE NO **DEVON 4503**
 WELL (FARM) NO **1** SERIAL NO **DEK-71**
 ELEVATION (SPIRIT LEVEL) **774.86'**
 QUADRANGLE **RIPLEY N.W. (SANDYVILLE 1:24,000 QUAD.)**
JACKSON RAVENSWOOD
 DATUM **U.S.G.S. DATUM (As Shown Above)**

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
 WELL LOCATION MAP
 FILE NO **47-035-1499**

APRIL 13, 1979 *Deep Well* 1" = 500'

MAY 8 1979

4800' Ground water 6-DEK-Poca (192)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

REGISTERED

FEB 20 1980

Oil and Gas Division
WELL RECORD

OIL & GAS DIVISION
DEPT. OF MINES

Rotary Oil _____
Cable _____ Gas
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle Sandyville 7 1/2'

Permit No. 47-035-1499

Company KAISER EXPLORATION & MINING CO.
Address P.O. Box 8, Ravenswood, W. Va.
Farm James M. Lane Acres 140
Location (waters) Straight Fork
Well No. DEK 71 Elev. 774.86
District Ravenswood County Jackson
The surface of tract is owned in fee by
James M. Lane, Rt. 2, Box 36
Address Ravenswood, W. Va. 26164
Mineral rights are owned by Same as above
Address _____
Drilling Commenced June 4, 1979
Drilling Completed June 13, 1979
Initial open flow 1 1/2 MCF/D XXXX bbls.
Final production 20M cu. ft. per day _____ bbls.
Well open 10 hrs. before test 750 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10" 10-3/4"	202	202	100 sax=to surf
9 5/8			
8 5/8			
7	2315	2315	165 sax=1400'
5 1/2			
4 1/2		4769	225 sax=2600'
3			
2		3929	
Liners Used			

Well treatment details:

Attach copy of cementing record.

Perforated 4 1/2" casing 4710-4712 with 16 shots
Tried to frac Oriskany through tubing. Packer failed.
Plugged back to Brown Shale, plug at 4050'. Perforated Brown Shale; 25 holes
3716'-3969' frac shale 15,000# 80/100 sand, 45,000# of 20/40 sand; 230 bbl of
sand laden fluid, total 310 bbl, and 450,000 SCF nitrogen at 8 bbl/min
treated 1800# average.

Coal was encountered at None Feet _____ Inches _____
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Brown Shale Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil			0	12		
Shale			12	97		
Sand			97	217		
Shale			217	263		
Sand			263	310		
Shale			310	512		
Sand			512	622		
Shale			622	826		
Sand			826	850		
Shale			850	1050		
Salt Sand			1050	1188		
Shale			1188	1270		
Sand			1270	1276		
Shale			1276	1326		
Salt Sand			1326	1396		
Shale			1396	1492		
Sand			1492	1519		
Shale			1519	1663		
Maxon Sand			1663	1732		
Big Lime			1732	1814		
Shale			1814	1874		
Injun Sand			1874	1918		
Shale			1918	2246		

(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
Coffee Shale			2246	2272		
Berea Sand			2272	2277		
Shale			2277	3435		
Br. Shale			3435	3974		
Shale			3974	4442		
Marcellus Shale			4442	4601		
Onondaga L. S.			4601	4698		
Oriskany Sand			4698	4718		
Helderberg L. S.			4718	4789		
Log Total Depth			4789			

Date February 20 1980

APPROVED Kaiser Exploration and Mining Company

By Robert A. Pappas

(Title)
Operations Manager



RECEIVED

APR 23 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 April 18, 1979

Surface Owner James M. Lane
Address Route 2, Box 36, Ravenswood, WV 26164

Company Kaiser Exploration and Mining Company
Address P. O. Box 8, Ravenswood, WV 26164

Mineral Owner James M. Lane
Address Route 2, Box 36, Ravenswood, WV 26164

Farm James M. Lane Acres 140

Coal Owner James M. Lane
Address Route 2, Box 36, Ravenswood, WV 26164

Location (waters) Straight Fork

Coal Operator None
Address None

Well No. DEK #71 (1) Elevation 774.86

District Ravenswood County Jackson

Quadrangle Sandyville 7 1/2, Ripley 15'

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 12-24-79.

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 January 18 19 78 by James M. Lane, et al made to Devon Corporation, et al and recorded on the _____ day of _____ 19____, in Jackson County, Book 147 Page 40

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.

Very truly yours,

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

(Sign Name) R. A. Pryce
R. A. Pryce Well Operator Operations Manager
P. O. Box 8

Street
Ravenswood

City or Town
West Virginia

State

W. VA. OIL & GAS CONSERVATION COMMISSION
1613 WASHINGTON STREET, EAST
CHARLESTON, WEST VIRGINIA 25311

Address of
Operator

*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

47-035-1499

PERMIT NUMBER

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 _____ NAME Robert A. Pryce
 ADDRESS _____ ADDRESS P. O. Box 8, Ravenswood, WV 26164
 TELEPHONE _____ TELEPHONE 273-5371
 ESTIMATED DEPTH OF COMPLETED WELL: 4800 ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Crisp
 TYPE OF WELL: OIL _____ GAS X COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8 10 3/4	200	200	Cement to surface
8 - 5/8			
7	2270	2270	125 sks = 570 feet
5 1/2			
4 1/2	4800	4800	125 sks = 1500 feet
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? No BY WHOM? _____

TO DRILL:

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

TO 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

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

JUL - 8 1981

OIL & GAS DIVISION

AFFIDAVIT OF PLUGGING AND FILLING WELL OF MINES

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE. ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

None
COAL OPERATOR OR OWNER

ADDRESS

James M. Lane
COAL OPERATOR OR OWNER

Rt. 2, Box 36, Ravenswood, WV 26164
ADDRESS

Same
LEASE OR PROPERTY OWNER

Same
ADDRESS

Kaiser Exploration and Mining Company
NAME OF WELL OPERATOR

P. O. Box 8, Ravenswood, WV 26164
COMPLETE ADDRESS

June 24, 19 81
WELL AND LOCATION

Ravenswood District
Jackson County

Well No. DEK #71

James M. Lane Farm

STATE INSPECTOR SUPERVISING PLUGGING: Richard Morris

AFFIDAVIT

STATE OF WEST VIRGINIA,

County of Jackson } SS:

Richard L. Coty and Robert A. Pryce

being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by KEMGAS well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 26th day of May, 19 81, and that the well was plugged and filled in the following manner:

SAND OR ZONE RECORD FORMATION	FILLING MATERIAL	PLUGS USED SIZE & KIND	CASING	
			CSG PULLED	CSG LEFT IN
2250' (KB)		4 1/2" permanent bridge plug		
2250'-2000 (KB)	Cement			
2000' - 750' (KB)	6% Gel		700'	4069' (4 1/2")
750' - 600' (KB)	Cement		650'	1665' (7")
600' - 300' (KB)	6% Gel			202' (10 3/4")
300' - 0' (GL)	Cement to Surface			
COAL SEAMS	None	DESCRIPTION OF MONUMENT		
(NAME)		8" pipe, 3' above ground level, properly labeled		
(NAME)				
(NAME)				
(NAME)				

and that the work of plugging and filling said well was completed on the 27th day of May, 19 81.

And further deponents saith not.

Sworn to and subscribed before me this 6th day of July, 19 81.

My commission expires:

August 5, 1990

R. L. Coty
Robert A. Pryce
Notary Public.

Permit No. JAC-1499 - P
035