

- NEW LOCATION *5/9/89*
- RECONDITION *Play Back*
- DRILL DEEPER *Free*
- 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 _____

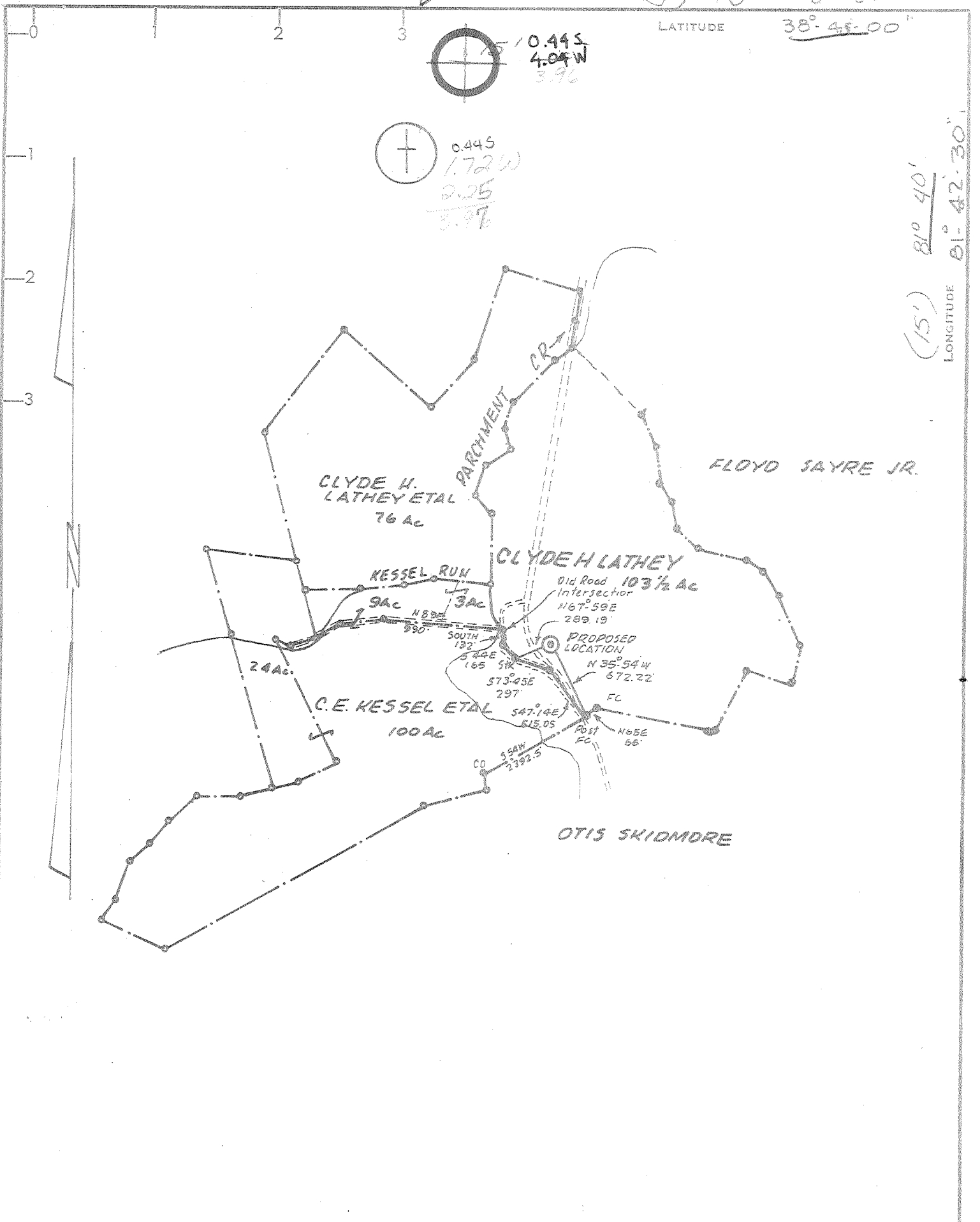
Frank H. Barlow # LL3289

COMPANY Peake Energy Inc. 669
 ADDRESS P.O. BOX 8, RAVENSWOOD, WEST VIRGINIA 26104
 FARM CLYDE HOMER LATHEY
 MAP _____ ACRES 103 1/2 LEASE NO. _____
 WELL (FARM) NO. 1 SERIAL NO. KEM 54
 ELEVATION (SPIRIT LEVEL) 711.41
 QUADRANGLE KENNA 7 1/2 & 15' 415 0631 NW
 COUNTY JACKSON DISTRICT RIPLEY 3
 POINT OF PROVEN ELEVATION BM 636
 FILE NO. _____ DRAWING NO. _____
 DATE SEPT. 30, 1980 SCALE 1"=1000 FT.

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
 WELL LOCATION MAP
035-1537-PP-Frac.
 FILE No. _____
 MAY 22 1989
 + DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. SCALE 1 TO 62,500. LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.
 - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

OWWO DEEP WELL 6-6 Elk-Poca (Sissonville) (192)

10-10-80
 LATITUDE 38° 48' 00"



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 _____

Frank J. Barber # LL 3289

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY KAISER EXPLORATION & MINING COMPANY
 ADDRESS P.O. BOX 8, RAVENSWOOD, WEST VIRGINIA
 FARM CLYDE HOMER LATHEY
 MAP _____ ACRES 103 1/2 LEASE NO. _____
 WELL (FARM) NO. 1 SERIAL NO. KEM 54
 ELEVATION (SPIRIT LEVEL) 711.41
 QUADRANGLE KENNA 7 1/2 E 15' NW
 COUNTY JACKSON DISTRICT RIPLEY
 POINT OF PROVEN ELEVATION BM 636
 FILE NO. _____ DRAWING NO. _____
 DATE SEPT. 30, 1980 SCALE 1"=1000 FT.

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
035-1537
 FILE NO. _____

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

DEEP WELL 0-6 Elk-Poca (Sissonville) (192)

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

Well Operator's Report of Well Work

Farm name: LATHEY, CLYDE HOMER Operator Well No.: KEM-54

LOCATION: Elevation: 711.41 Quadrangle: KENNA

District: RIPLEY County: JACKSON
 Latitude: 2280 Feet South of 38 Deg. 45Min. 0 Sec.
 Longitude 9300 Feet West of 81 Deg. 42 Min. 30 Sec.

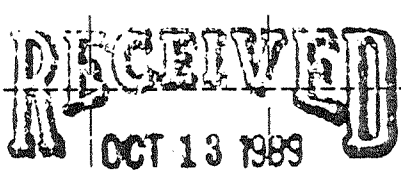
Company: PEAKE ENERGY, INC
 P. O. BOX 8
 RAVENSWOOD, WV 26164-0000

Agent: JOHN V. McCALLISTER

Inspector: JERRY TEPHABOCK
 Permit Issued: 05/10/89
 Well work Commenced: (frac) 9/13/89
 Well work Completed: 9/14/89
 Verbal Plugging _____
 Permission granted on: _____
 Rotary Cable Rig
 Total Depth (feet) 4250'
 Fresh water depths (ft) _____

Salt water depths (ft) _____

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
	No pipe was removed		
	from this well, Same as previously submitted.		
			


DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation Dev. Brown Shale Pay zone depth (ft) 3934-4106
 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 72 Hours
 Static rock Pressure 590 psig (surface pressure) after _____ Hours

Second producing formation N/A 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: 10/5/89

OCT 20 1989

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

- 9/13/89 Set permanent plug with cal-seal cap at 4230. Perforated the Brown Shale interval, through 4-1/2" csq, from 3934 to 4106 using 19 holes.
- 9/14/89 Foam-fractured the Brown Shale using 60,000 lbs. of 20/40 sand, 302 BBL of fluid, and 725,000 SCF of nitrogen. BDP=2290 psig. ATP=2900 psig.

WELL LOG

FORMATION	TOP	BOTTOM	REMARKS
(Same as previously submitted)			

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

8796

888-5-130

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Oil and Gas Division
OIL & GAS DIVISION

WELL RECORD DEPT. OF MINES

Quadrangle Kenna

Permit No. JAC-1537

Cable Off
 Recycling Comb. Gas
 Water Flood Storage
 Disposal (FTR)

Company Kaiser Exploration and Mining Company
 Address P. O. Box 8, Ravenswood, WV 26164
 Farm Clyde Lathey Acres 103.5
 Location (waters) Parchment
 Well No. KEM #54 Elev. 711.41
 District Ripley County Jackson
 The surface of tract is owned in fee by
 Clyde Lathey
 Address Star Route, Ripley, WV 25271
 Mineral rights are owned by Same
 Address Same
 Drilling Commenced 10/16/80
 Drilling Completed 10/25/80
 Initial open flow 7,000 M cu. ft. -- bbls.
 Final production 2,000 M cu. ft. per day -- bbls.
 Well open 24 hrs. before test 1560 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"	206' (KB)	206' (KB)	150 sk Class A (to surface)
9 5/8			
8 5/8			65 sks 50/50 po
7	2443' (KB)	2443' (KB)	100 sks Class A (1400' fillup)
5 1/2			
4 1/2	4811' (KB)	4811' (KB)	175 sks 50/50 pozmix (1100' fillup)
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Acidized formation open hole with 1000 gal of 28% HCL MCF acid; displaced 30 bbl into formation at 6 BPM, 3500 psig.

Coal was encountered at -- Feet -- Inches
 Fresh water -- Feet -- Salt Water -- Feet --
 Producing Sand Oriskany Sandstone 475 Depth 4829' - 4840' (KB)

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil & Shale			0	56		
Red Rock			56	426		
Shale			426	532		
Sand			532	550		
Shale			550	632		
Sand			632	652		
Shale			652	686		
Sand			686	732		
Shale			732	822		
Sand			822	871		
Shale			871	994		
Sand			994	1088		
Shale			1088	1132		
Sand			1132	1220		
Shale			1220	1282		
Sand			1282	1310		
Shale			1310	1322		
Sand			1322	1336		
Shale			1336	1508		
22 Salt Sands			1508	1746		
Big Lime			1746	1872		
345 Shale			1872	1909		
345 Big Injun			1909	2021		
Shale			2021	2350		

OCT 22 1984

Over

Formation	Color	Thickness (Feet)	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Coffee Shale			2350	2374		
Berea Sand			2374	2386		
Shale			2386	3592	Show/Gas	3453'
Brown Shale			3592	4110	Show/Gas	3743'
Shale			4110	4466	Show/Gas	4359'
Marcellus Shale			4466	4737		
Onondaga Lime			4737	4818		
Oriskany Sand			4818	4854	Gas	4840'
Helderberg			4854	4940		
Total Depth			4940			

December 8,

30

F. L. A. P.

Operation Manager

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

- 1) Well Operator: ¹⁰¹² PEAKE ENERGY, INC. 31085, 3, 415
- 2) Operator's Well Number: KEM #54 - Lathey 3) Elevation: 711.41
Permit No. 47-035-1537
- 4) Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production X / Underground Storage ___ /
Deep ___ / Shallow X /
- 5) Proposed Target Formation(s): Devonian Brown Shale (Lower Huron)
Plug-Back ⁴⁴⁴
- 6) Proposed ~~Total~~ Depth: 4250 feet
- 7) Approximate fresh water strata depths: _____
- 8) Approximate salt water depths: _____
- 9) Approximate coal seam depths: _____
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
- 11) Proposed Well Work: Plug off Oriskany Sand and stimulate Brown Shale by fracturing.
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor						
Fresh Water	No change in pipe or cement; see original well record attached.					
Coal						
Intermediate						
Production						
Tubing						
Liners						

See Procedure Statement for Plug Back

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MAY 04 1989

PACKERS : Kind _____
Sizes _____
Depths set _____

8796

1630
10
[Signature]

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Fee(s) paid: [Signature] Well Work Permit [Signature] Reclamation Fund [Signature] WPCP [Signature]

Plat [Signature] WW-9 [Signature] WW-2B [Signature] Bond Blanket [Signature] Agent [Signature]

(Type)

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

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1)
2)
3)

Date: APRIL 28, 1989
Operator's well number
KEM #54
API Well No: 47 - 035 - 1537-PP-FRA
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- | | |
|--|--|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Clyde Homer Lathey</u>
Address <u>Rt. 2</u>
<u>Ripley, WV 25271</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> <p>6) Inspector <u>Jerry Tephabock</u>
Address <u>Rt. 1, Box 101A</u>
<u>Ripley, WV 25271</u>
Telephone (304)- <u>372-6805</u></p> | <p>5) (a) Coal Operator:</p> <p>Name <u>NA</u>
Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>NA</u>
Address _____</p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name <u>NA</u>
Address _____</p> |
|--|--|

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
_____ 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:

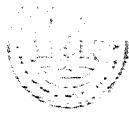
- _____ Personal Service (Affidavit attached)
- _____ Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

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 28th day of April, 1989
[Signature] COMMISSIONER FOR THE STATE OF WV
My commission expires 2/21/99 Notary Public



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

OCT - 8 1980

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE October 6, 1980
Company Kaiser Exploration and Mining Company
Address P. O. Box 8, Ravenswood, WV 26164
Farm Clyde Lathey Acres 103 1/2
Location (waters) Parchment
Well No. KEM #54 Elevation 711.41
District Ripley County Jackson
Quadrangle Kenna

Surface Owner Clyde Lathey
Address Star Route, Ripley, WV
Mineral Owner Same as above
Address _____
Coal Owner Same as above
Address _____
Coal Operator None
Address _____

PERMIT MUST BE POSTED AT THE WELL SITE

provisions being in accordance with Chapter 22,
the W. Va. Code, the location is hereby approved
drilling. This permit shall expire if
operations have not commenced by 6-10-81

[Signature]
Deputy Director - Oil & Gas Division

INSPECTOR
TO BE NOTIFIED Richard Morris
ADDRESS P. O. Box 372, Grantsville, WV
PHONE 354-7259

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 August 4 1980 by Clyde Homer &
Jane Lathey made to Kaiser Exploration and Mining Co. and recorded on the 14 day of August
1980 in Jackson County, Book 156 Page 655

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
and 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
GEOLOGICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
C-304 - 292-6331

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

BLANKET BOND

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

TELEPHONE _____

TELEPHONE 273-5371

ESTIMATED DEPTH OF COMPLETED WELL: 4911'

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.
20 - 16			
13 - 10			
9 - 5/8 10 3/4"	250	250	Cement to surface
8 - 5/8			
7	2450	2450	125' = 570'
5 1/2			
4 1/2	4911	4911	125 sk = 1500'
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