



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
NOV 15 1979

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 November 14, 1979

Surface Owner S. K. McCullough
Address Hebron, WV
Mineral Owner S. K. McCullough
Address Hebron, WV
Coal Owner _____
Address _____
Coal Operator _____
Address _____

Company Key Oil Company
Address 227 Washington Ave, Clarksburg, WV
Farm S. K. McCullough Acres 85.39
Location (waters) McKim Creek
Well No. 1 Elevation 796'
District Lafayette County Pleasants
Quadrangle Ellenboro

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 7-15-80.

Robert H. [Signature]
Deputy Director - Oil & Gas Division

INSPECTOR
TO BE NOTIFIED Phillip Lee Tracy
ADDRESS P.O. Box 173, Middlebourn, WV 26149
PHONE 758-4573

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 11, 1979 by S. K. McCullough made to Key Oil Company and recorded on the 6th day of September 1979 in Pleasants County, Book 153 Page 383

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:

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

Address
of
Well Operator

Very truly yours,
(Sign Name) Joe M. Laughlin
Well Operator
227 Washington Ave., Suite 3F
Street
Clarksburg
City or Town
West Virginia 26301
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

**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 Joe McLaughlin
 ADDRESS _____ ADDRESS 227 Washington Ave. Clarksburg WV
 TELEPHONE _____ TELEPHONE 623-3783
 ESTIMATED DEPTH OF COMPLETED WELL: 2950' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: 5th Sand
 TYPE OF WELL: OIL _____ GAS _____ COMB. X 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			
8 - 5/8	796'		Cement to surface
7			
5 1/2			
4 1/2	2950'		Cement 300' above producing formation
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 125' FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS None
 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



Date Oct 14 1980
Well No. 1
API No. 47 - 073 - 0814 - Frac.
State County Permit

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS

Company Name Key Oil Company Designated Agent Barry Lay
Address 220 W. Central Ave. Titusville Pa 16354 Address Twin Maples Trailer Cot Lot 9 Morgantown, WV 26505
Telephone 814-827-1820 Telephone 304-296-0949
Landowner S. K. McCullough Soil Cons. District _____
Revegetation to be carried out by P. D. Farr (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan. 11-7-80 Jarrett Newton
(Date) (SCD Agent)

Access Road	Location
Structure <u>Culvert</u> (A)	Structure <u>Diversion Ditches</u> (1)
Spacing <u>MIN size 12" ID</u>	Material <u>Earthen</u>
Page Ref. Manual <u>T-8</u>	Page Ref. Manual <u>I-11</u>
Structure <u>Drainage ditch</u> (B)	Structure _____ (2)
Spacing _____	Material _____
Page Ref. Manual <u>I-11</u>	Page Ref. Manual _____
Structure _____ (C)	Structure _____ (3)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____

All structures should be inspected regularly and repaired if necessary.

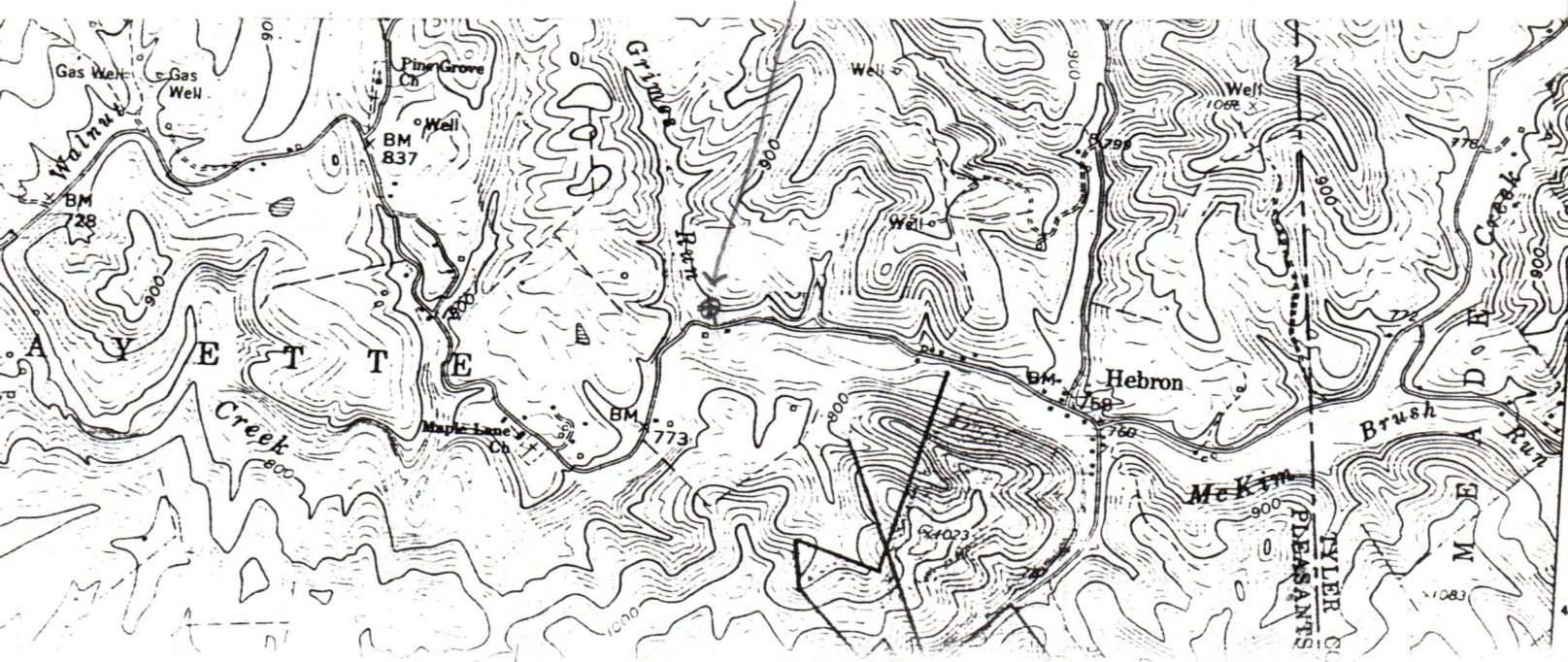
Revegetation

Treatment Area I	Treatment Area II
Lime _____ Tons/acre or correct to pH <u>6.5</u>	Lime _____ Tons/Acre or correct to pH <u>6.5</u>
Fertilizer <u>300 500</u> lbs/acre (10-20-20 or equivalent)	Fertilizer <u>300 500</u> lbs/acre (10-20-20 or equivalent)
Mulch <u>(Hay) (2 ton/Ac)</u> Tons/Acre	Mulch <u>(Hay) (2 ton/Ac)</u> Tons/Acre
Seed* <u>Ky 31 4020</u> lbs/acre lbs/acre lbs/acre	Seed* <u>Ky 31 20</u> lbs/acre lbs/acre lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

Attach or photocopy section of involved Topographic map. , Quadrangle Ellenboro 7 1/2"

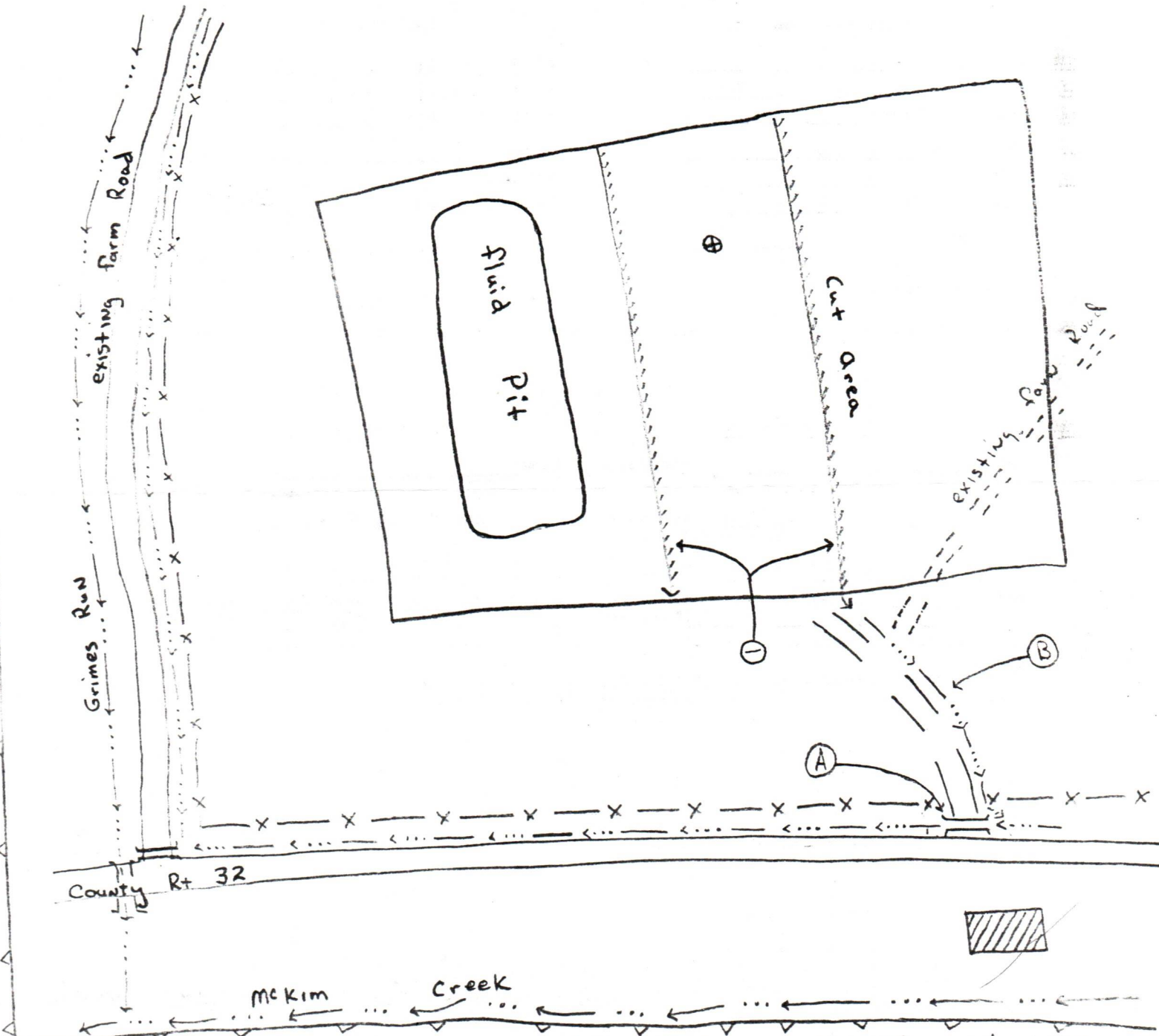
Legend: Well Site
 Access Road



Well Site Plan

- | | | | | |
|---------|------------------|--|------------|--|
| Legend: | Property Boundry | | Diversion | |
| | Existing Fence | | Spring | |
| | Planned Fence | | Wet Spot | |
| | Stream | | Building | |
| | Open Ditch | | Drain Pipe | |
| | | | Waterway | |

Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with first part of this plan. Include all natural drainage.



Comments: Well was drilled and reseeded in January 1980, after stimulation
 Well location + pit will be backfill and reseeded again, access road was
 as existing farm road the road grade is less than 5% length is approximately 125 feet
 Barry Jay Twin maples Trailer Ct Lot 9 Morgantown WV 304-296-0949
 Address Phone Number

Please report landowners cooperation to protect new seeding for one growing season.

Date: Nov. 14, 19 79

Operator's Well No. 1

API Well No. 47 - 073 - 0814
State County Permit

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

RECLAMATION PLAN

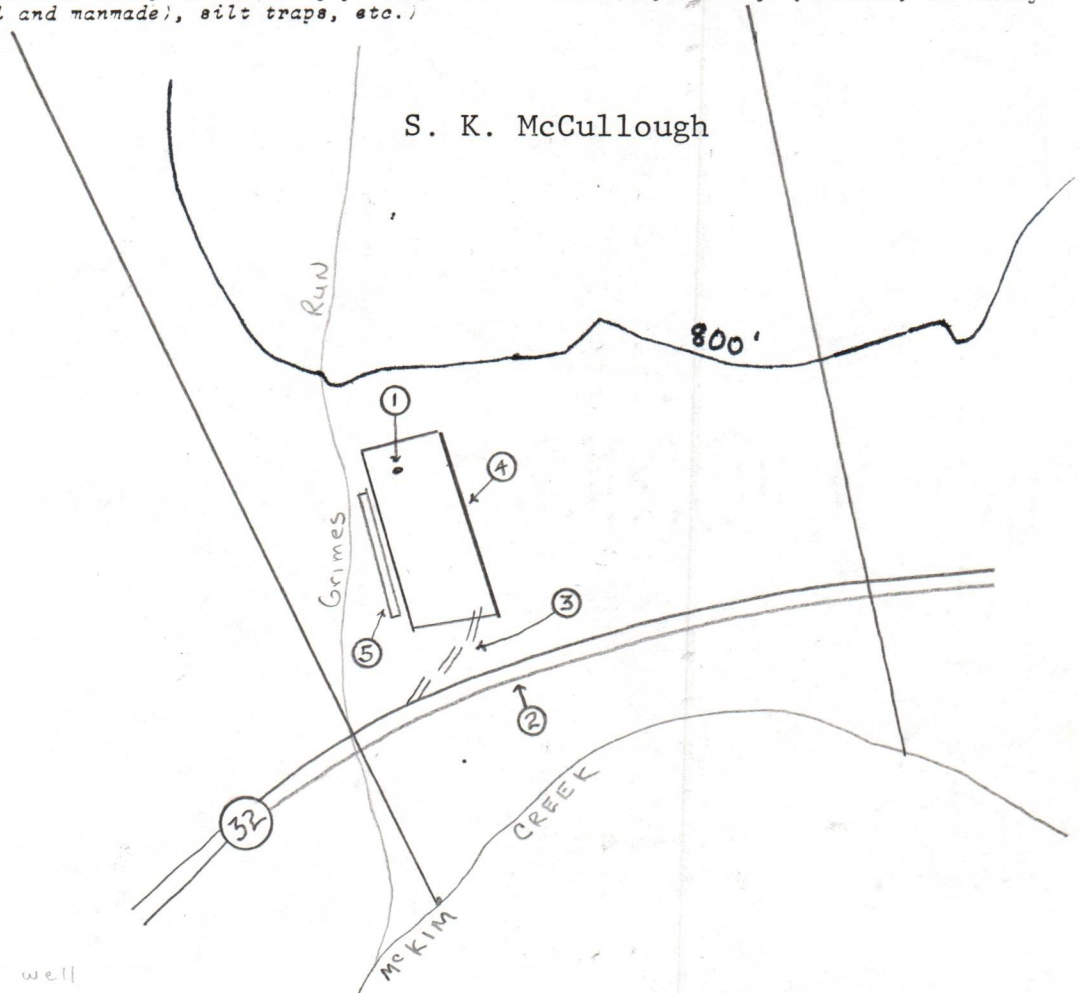
WELL OPERATOR Key Oil Company
Address 227 Washington Ave., Suite 3F
Clarksburg, WV 26301

DESIGNATED AGENT Joe McLaughlin
Address 227 Washington Ave., Suite 3F
Clarksburg, WV 26301

The well operator hereby agrees to carry out the reclamation requirements of Code § 22-4-12b in the manner set out below.

This plan has ___/ has not X/ been reviewed with the district oil and gas inspector.

SKETCH: (Locate and show the (1) well location, (2) existing access road, (3) access road to be constructed, (4) well site, (5) drilling pit(s), and (6) necessary drainage features, including drains (natural and manmade), silt traps, etc.)



STATEMENT OF RECLAMATION PLAN (Complete on reverse side if necessary)

The access road leaves an existing farm road. The road will have approximately 10 percent grade. Any commercial timber damaged will be removed and the nearest water well is approximately 500 feet away. The location and pit will be reclaimed upon completion of the well allowing only the area needed to work the well.

RECEIVED

NOV 15 1979

OIL & GAS DIVISION
DEPT. OF MINES

Key Oil Company
Well Operator

By Joe McLaughlin
Its President



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED
NOV 20 1980

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE October 14, 1980

Surface Owner S. K. McCullough

Company Key Oil Company

Address Hebron, W.V.

Address 220 W. Central Ave., Titusville, Pa.

Mineral Owner S. K. McCullough

Farm S. K. McCullough Acres 85.39

Address Hebron, W. V.

Location (waters) McKim Creek

Coal Owner _____

Well No. 1 Elevation 796'

Address _____

District Lafayette County Pleasants

Coal Operator _____

Quadrangle Ellenboro

Address _____

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 Fracturing. This permit shall expire if operations have not commenced by 7-25-81.

John B. ...
Deputy Director - Oil & Gas Division

INSPECTOR
TO BE NOTIFIED Phillip Lee Tracy

ADDRESS P.O.Box 173, Middlebourn, WV 26149

PHONE 758-4573

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 11 1979 by S.K. McCullough made to Key Oil Company and recorded on the 6th day of Sept. 1979, in Pleasants County, Book 153 Page 383

_____ NEW WELL _____ DRILL DEEPER _____ REDRILL X _____ 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:

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

Address
of
Well Operator

Very truly yours,
(Sign Name) *Joe M. ...*
Well Operator

220 West Central Avenue
Street

Titusville
City or Town

Pennsylvania 16354
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

47-073-0814-FRAC PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

47-73-0814

Signed by _____

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

PROPOSED WORK ORDER TO _____ DRILL _____ DEEPEN X _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Not known at this time _____ NAME Joe McLaughlin _____
 ADDRESS _____ ADDRESS 220 W. Central Ave., Titusville, Pa. _____
 TELEPHONE _____ TELEPHONE (814) 827-1820 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 2500' _____ ROTARY _____ CABLE TOOLS X _____
 PROPOSED GEOLOGICAL FORMATION: Gordon & Big Injun _____
 TYPE OF WELL: OIL _____ GAS _____ COMB. X _____ 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			
8 - 5/8			
7			
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS N/A FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS N/A _____
 IS COAL BEING MINED IN THE AREA? N/A 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 Division

OIL AND GAS WELL PERMIT APPLICATION

RECEIVED
SEP 25 1981
OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

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

DATE September 23, 1981
Company Key Oil Company
Address 220 W. Central Ave., Titusville, PA
Farm S. K. McCullough Acres 85.39
Location (waters) McKim Creek
Well No. 1 Elevation 796'
District Lafayette County Pleasants
Quadrangle Ellenboro

Surface Owner S. K. McCullough
Address Hebron, WV
Mineral Owner S. K. McCullough
Address Hebron, WV
Coal Owner _____
Address _____
Coal Operator _____
Address _____

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 fracturing. This permit shall expire if
operations have not commenced by 5-28-82.

J. E. Muzzey
Deputy Director - Oil & Gas Division

INSPECTOR
TO BE NOTIFIED Phillip Lee Tracy
ADDRESS P. O. Box 173, Middlebourn, WV 26149
PHONE 758-4573

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 11, 19 79 by S. K. McCullough made to Key Oil Company and recorded on the 6th day of Sept. 19 79 in Pleasants County, Book 153 Page 383

_____ 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:

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

Address
of
Well Operator

Very truly yours,
(Sign Name) *Joe M. Laughlin*
Well Operator
220 West Central Avenue
Street
Titusville
City or Town
Pennsylvania 16354
State

BLANKET BOND

47-73-0814 FRAC PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by _____

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

PROPOSED WORK ORDER TO _____ DRILL _____ DEEPEN FRACTURE-STIMULATE

DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Not known at this time NAME Joe McLaughlin
 ADDRESS _____ ADDRESS 220 W. Central Ave., Titusville, PA
 TELEPHONE _____ TELEPHONE (814) 827-1820
 ESTIMATED DEPTH OF COMPLETED WELL: 2500' ROTARY _____ CABLE TOOLS
 PROPOSED GEOLOGICAL FORMATION: ~~Gordon &~~ Big Injun
 TYPE OF WELL: OIL _____ GAS _____ 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			
8 - 5/8			
7			
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS N/A FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS N/A _____
 IS COAL BEING MINED IN THE AREA? N/A 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

RECEIVED

JUN - 4 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE June 1, 1982

Surface Owner S. K. McCullough

Company Key Oil Company

Address Hebron, W.V.

Address 220 W. Central Ave., Titusville, Pa.

Mineral Owner S. K. McCullough

Farm S. K. McCullough Acres 85.39

Address Hebron, W. V.

Location (waters) McKim Creek

Coal Owner _____

Well No. 1 Elevation 796'

Address _____

District Lafayette County Pleasants

Coal Operator _____

Quadrangle Ellenboro

Address _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE.

ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,

ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY

APPROVED FOR fracturing. THIS PERMIT SHALL EXPIRE

IF OPERATIONS HAVE NOT COMMENCED BY 5-23-83

BY [Signature]

INSPECTOR

TO BE NOT

Robert A. Lowther

General Delivery

ADDRESS

Middlebourne, W.Va. 26149

PH: 758-4764

PHONE

758-4764

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 11 1979 by S.K. McCullough made to Key Oil Company and recorded on the 6th day of Sept. 1979, in Pleasants County, Book 153 Page 383

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:

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

Address
of
Well Operator

220 West Central Avenue

Street

Titusville

City or Town

Pennsylvania 16354

State

Very truly yours, [Signature]

(Sign Name) Atty-in-Fact

Well 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.

B L A N K E T B O N D

47-73-0814 REFRAC

PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by _____

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

PROPOSED WORK ORDER TO _____ DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Not known at this time _____ NAME Joe McLaughlin _____
 ADDRESS _____ ADDRESS 220 W. Central Ave., Titusville, _____
 TELEPHONE _____ TELEPHONE (814) 827-1820 _____ PA _____
 ESTIMATED DEPTH OF COMPLETED WELL: 2500' _____ ROTARY _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: BIG INJUN _____
 TYPE OF WELL: OIL _____ GAS _____ 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			
8 - 5/8	880'	880'	(in well)
7			
5 1/2			
4 1/2	2500'	2500'	200 sks or as req. by Rule 15.09
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS N/A FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS N/A _____
 IS COAL BEING MINED IN THE AREA? N/A 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 Division

WELL RECORD

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

Quadrangle _____

Permit No. 47-073-0814

Company Key Oil Company
 Address Clarksburg, WV
 Farm S. K. McCullough Acres 85.39
 Location (waters) McKim Creek
 Well No. 1 Elev. 796'
 District Lafayette County Pleasants
 The surface of tract is owned in fee by _____
S. K. McCullough
 Address Hebron, WV
 Mineral rights are owned by S. K. McCullough
 Address Hebron, WV
 Drilling Commenced 11-26-79
 Drilling Completed 12-1-79
 Initial open flow N/A cu. ft. _____ bbls.
 Final production 490,000 cu. ft. per day _____ bbls.
 Well open 24 hrs. before test 650 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8		840'	
7			
5 1/2			
4 1/2		2710'	
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

1130 bbls 300 sks 80/100 550 sks 20/40 2635-2650

Coal was encountered at _____ Feet _____ Inches
 Fresh water 100' Feet _____ Salt Water _____ Feet _____
 Producing Sand Fifth Sand Depth 2754'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Big Injun			1710	1860		
Gantz			2150	2176		
Gordon			2460	2480		
Fifth			2635	2650		

(over)

* Indicates Electric Log tops in the remarks section.

August 1, 1984

DATE

In Re: Complete Information requested below:

RECEIVED
JAN 17 1985
OIL & GAS DIVISION
DEPT. OF MINES

FRACTURE RECORD

Well Name and No: S. K. McCullough #1

District: Lafayette

County: Pleasants

Permit No: 073-0814-REFRAC

Completion Date: 12-22-80

Formation Fractured:

Material:

Top 2455

45,000 lb 20/40 sand,

Bottom 2468

500 gal. 15% HCl, 800 Mcf N₂ 210 BBL H₂O

Rock Pressure:

Test after Fracture:

Before Fracture 350 psi

Oil 0

After Fracture 625 psi

Gas 200 Mcf/d

Barry Jory
Signature

Jan 4, 1985
Date

COMPANY Key Oil Company

P. O. Box 709

Spencer, West Virginia 25276

RETURN TO: Dept. Mines - Office of Oil & Gas
1615 Washington Street, East
Charleston, West Virginia 25311-2192

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

INSPECTOR'S WELL REPORT
ON
PERMITTED WORK EXCEPT PLUGGING AND ABANDONMENT

WELL TYPE: Oil ___ / Gas ___ / Liquid Injection ___ / Waste Disposal ___
 (If "Gas", Production ___ / Underground storage ___ / Deep ___ / Shallow ___)

LOCATION: Elevation: 796 Watershed: McKin creek
 District: Lafayette County: Pharos Quadrangle: _____

WELL OPERATOR Ny Oil Co. DESIGNATED AGENT Joe McCullough
 Address 227 Washington Ave. Address 227 Washington Ave.
Clarksburg W.Va. Clarksburg W.Va.

DRILLING CONTRACTOR Spencer Drilling SERVICE COMPANIES _____
 Address West Union W.Va. _____

WELL DATA:

Drilling commenced _____, 19____; completed _____, 19____

Total Depth 300 feet

Fracturing ___ / Stimulation ___ / on _____, 19____ at a depth of _____ feet

Open Flow: Initial, ___/10ths Water in ___ inches; after tubing, ___/10ths Merc. in ___ inches

Other work commenced _____, 19____; completed _____, 19____

Gas Volume _____ Mcf Oil Volume _____ Bbl.

Rock Pressure _____ psig after _____ hrs.

Fresh water encountered (depths) _____

Salt water encountered (depths) _____

Coal seams encountered (depths) _____

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									Sizes
Coal									Depths set
Intermediate									Perforations:
Production									Top Bottom
Tubing									
Liners									

DATES OF INSPECTOR'S PREVIOUS VISITS TO WELL

DATE OF INSPECTOR'S LATEST VISIT TO WELL

INSPECTOR'S AND OTHER REMARKS:

RECEIVED

NOV 29 1979

OIL & GAS DIVISION
DEPT. OF MINES

NOTE: This form is used for both a daily inspection record and the inspector's final report after the completion of the permitted work.

Phil Gray 512
District Oil and Gas Inspector

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

INSPECTOR'S WELL REPORT
ON
PLUGGING

WELL TYPE: Oil ___/ Gas ___/ Liquid Injection ___/ Waste Disposal ___/
(If "Gas", Production ___/ Underground storage ___/ Deep ___/ Shallow ___)

LOCATION: Elevation: _____ Watershed: _____
District: _____ County: _____ Quadrangle: _____

WELL OPERATOR _____ DESIGNATED AGENT _____
Address _____ Address _____

PLUGGING CONTRACTOR _____ SERVICE COMPANIES (NAMES ONLY)
Address _____

PERMITTED WORK: Plug and abandon ___/ Clean out and replug ___/

PLUGGING MATERIALS

Type of Cement	Other Materials	Depth	Thickness

Bridge Plugs Used--Type and Depth

VENT PIPE _____

MISCELLANEOUS MATERIALS _____

CASING LOST _____

TYPE OF RIG:

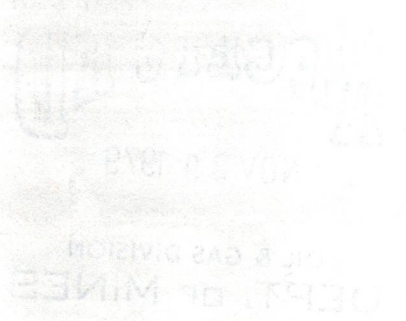
Owner: Well Op'r ___/ Contractor ___/

Rig time: ___ days plus ___ hours

DATES OF INSPECTOR'S PREVIOUS VISITS TO WELL

DATE OF INSPECTOR'S LATEST VISIT TO WELL

INSPECTOR'S AND OTHER REMARKS:



NOTE: This form is used for both a daily inspection record and the inspector's final report after the completion of the permitted work.

District Oil and Gas Inspector

Date: Nov 28, 19 79

Operator's Well No. McCullough No. 1
API Well No. 47-43-814
State County Permit

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

INSPECTOR'S WELL REPORT
ON

PERMITTED WORK EXCEPT PLUGGING AND ABANDONMENT

WELL TYPE: Oil ___ / Gas ___ / Liquid Injection ___ / Waste Disposal ___
(If "Gas", Production ___ / Underground storage ___ / Deep ___ / Shallow ___)

LOCATION: Elevation: 996 Watershed: McKin Creek
District: Lafayette County: Putnam Quadrangle: _____

WELL OPERATOR Hay Oil Co DESIGNATED AGENT Joe McCullough
Address 227 Washington Ave, Address 227 Washington Ave
Clarksburg W.Va. Clarksburg W.Va.

DRILLING CONTRACTOR Spencer Drilling SERVICE COMPANIES Dawell
Address West Union W.Va.

WELL DATA:

Drilling commenced _____, 19____; completed _____, 19____

Total Depth 895 feet

Fracturing ___ / Stimulation ___ / on _____, 19____ at a depth of _____ feet

Open Flow: Initial, ___/10ths Water in ___ inches; after tubing, ___/10ths Merc. in ___ inches

Other work commenced _____, 19____; completed _____

Gas Volume _____ Mcf Oil Volume _____ Bbl.

Rock Pressure _____ psig after _____ hrs.

Fresh water encountered (depths) _____

Salt water encountered (depths) _____

Coal seams encountered (depths) _____

RECEIVED
DEC - 3 1979

OIL & GAS DIVISION
DEPT. OF MINES

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		
Conductor								Kinds
Fresh water	<u>8 5/8</u>			<u>L</u>		<u>880</u>	<u>880</u>	<u>250 Sh.</u>
Coal								Sizes
Intermediate								Depths set
Production								
Tubing								
Liners								Perforations:
								Top Bottom

DATES OF INSPECTOR'S PREVIOUS VISITS TO WELL

DATE OF INSPECTOR'S LATEST VISIT TO WELL

INSPECTOR'S AND OTHER REMARKS:

NOTE: This form is used for both a daily inspection record and the inspector's final report after the completion of the permitted work.

Bob Drey 572
District Oil and Gas Inspector

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

INSPECTOR'S WELL REPORT
ON
P L U G G I N G

WELL TYPE: Oil____/ Gas____/ Liquid Injection____/ Waste Disposal____/
(If "Gas", Production____/ Underground storage____/ Deep____/ Shallow____)

LOCATION: Elevation: _____ Watershed: _____
District: _____ County: _____ Quadrangle: _____

WELL OPERATOR _____ DESIGNATED AGENT _____
Address _____ Address _____

PLUGGING CONTRACTOR _____ SERVICE COMPANIES (NAMES ONLY)
Address _____

PERMITTED WORK: Plug and abandon ____/ Clean out and replug ____/

PLUGGING MATERIALS

Type of Cement	Other Materials	Depth	Thickness

Bridge Plugs Used--Type and Depth

VENT PIPE _____

MISCELLANEOUS MATERIALS _____

CASING LOST _____

TYPE OF RIG:
Owner: Well Op'r____/ Contractor____/
Rig time: ____ days plus ____ hours

DATES OF INSPECTOR'S PREVIOUS VISITS TO WELL

DATE OF INSPECTOR'S LATEST VISIT TO WELL

INSPECTOR'S AND OTHER REMARKS:

NOTE: This form is used for both a daily inspection record and the inspector's final report after the completion of the permitted work.

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

RECEIVED

JUL 7 - 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 073-0814

Oil or Gas Well _____
(KIND)

Company Key oil co
 Address Clarksburg, W. Va
 Farm S. K. McCullough
 Well No. 1
 District Lafayette County Pleasant
 Drilling commenced _____
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8 1/4			
6 5/8			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Dat _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Remarks: Final Inspection accepted

Release?
R. F. Mc

Request IV-35
for ~~fract.~~ permit

6-30-82

R. A. Lowther 512



State of West Virginia

Department of Mines
Oil and Gas Division
Charleston 25305

THEODORE M. STREIT
ADMINISTRATOR

BARTON B. LAY, JR.
DEPUTY DIRECTOR

January 18, 1985

Key Oil Co.
P. O. Box 709
Spencer, WV 25276

In Re: Permit No:	<u>47-073-0814</u>
Farm:	<u>S. K. McCullough</u>
Well No:	<u>1</u>
District:	<u>Lafayette</u>
County:	<u>Pleasants</u>
Issued:	<u>8-23-82</u>

Gentlemen:

The FINAL INSPECTION REPORT for the above captioned well has been received in this office. Only the column checked below applies:

The well designated by the above captioned permit number has been released under your Blanket Bond.

Please return the enclosed cancelled single bond which covered the well designated by the above permit number to the surety company who executed said bond in your behalf, in order that they may give you credit on their records.

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above captioned well will remain under bond coverage for life of the well.

XXXXX

Very truly yours,

Theodore M. Streit, Administrator
Dept. Mines-Office of Oil & Gas

TMS/nw

RECEIVED

FEB 20 1980

OIL & GAS DIVISION
DEPT. OF MINES

1.0 API well number: (If not available, leave blank. 14 digits.)	47-073-0814			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA	N/A Category Code		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	2650 feet			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Key Oil Company Name C/O Hays & Co., P. O. Box 590 Street Spencer, WV 25276 City State Zip Code			Seller Code
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	N/A Field Name Pleasants County WV State			
(b) For OCS wells:	N/A Area Name			Block Number
	Date of Lease: Mo. Day Yr.			OCS Lease Number
(c) Name and identification number of this well: (35 letters and digits maximum.)	S. K. McCullough #1			
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	N/A			
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Uncommitted Name			Buyer Code
(b) Date of the contract:	Mo. Day Yr.			
(c) Estimated annual production:	18 MMcf.			
	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	2.173	---	---	2.173
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	2.173	---	---	2.173
9.0 Person responsible for this application:	Hays & Co. Agent Name Title			
Agency Use Only	Signature			
Date Received by Juris. Agency	February 18, 1980 Date Application is Completed			
Date Received by FERC	(304) 927-2650 Phone Number			

WELL DETERMINATION REPORT

PARTICIPANTS:

DATE: JUN 18 1980

BUYER-SELLER CODE

WELL OPERATOR: Key Oil Company

N/A

FIRST PURCHASER: Un Committed

OTHER:

W.Va. Department of Mines, Oil & Gas Division
WELL DETERMINATION FILE NUMBER

Qualifies as Section 103, new unconsolidated production well.

Travis & Leach

80/2/20.103.073.0814

Use Above File Number on all Communications

Relating To Determination of this Well

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC-121 Items not completed - Line No. _____
- 2. IV -1 Agent George Gainer
- 3. IV-2 Well Permit _____
- 4. IV.6 Well Plat
- 5. IV-35 Well Record Drilling Deepening _____
- 6. IV-36 Gas-Oil Test: Gas Only _____ Was Oil Produced? _____ Ratio _____
- 7. IV-39 Annual Production _____ years
- 8. IV-40 90 day Production _____ Days off Line: _____
- 9. IV-48 Application for certification. Complete?
- 10-17 IV Form #51 - 52 - 53 - (54) - 55 - 56 - 57 - 58 Complete? AFFIDAVIT SIGNED?
- 18-28 Other: Survey _____ Logs _____ Geological Charts _____

Structure Map _____ 1:4000Map _____ Well Tabulations _____
Gas Analyses _____

- (5) Date commenced: 11.26.79 Date completed 12.1.79 Deepened _____
- (5) Production Depth: 2754
- (5) Production Formation: Fifth Sand
- (5) Final Open Flow: 490,000
- (5) After Free. R.P. 650 - 24 hrs
- (6) Other Gas Test: _____
- (7) Avg. Daily Gas from Annual Production: No Production
- (8) Avg. Daily Gas from 90-day ending w/1 - 120 days: No Production
- (8) Line Pressure: _____ PSIG from Daily Report
- (5) Oil Production: NO From Completion Report _____
- (10-17) Does lease inventory indicate enhanced recovery being done? NO
- (10-17) Is affidavit signed? Notarized?

Does official well record with the Department confirm the submitted information? YES
Additional Information _____ Does computer program confirm? _____
Was Determination Objected to? _____ By Whom? _____

Shelley

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

Date Feb. 18, 1980

Operator's Well No. 1

API Well No. 47 - 073 - 0814
State County Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL
NGPA Section 103

DESIGNATED AGENT Hays & Co.

ADDRESS P. O. Box 590
Spencer, WV 25276

WELL OPERATOR Key Oil Company

ADDRESS P. O. Box 590
Spencer, WV 25276

LOCATION: Elevation 796

Watershed McKim Creek

Dist. Lafayette County Pleasants Quad. Ellenboro

GAS PURCHASER Uncommitted

ADDRESS _____

Gas Purchase Contract No. None

Meter Chart Code _____

Date of Contract _____

* * * * *

Date surface drilling was begun: 11/26/79

Indicate the bottom hole pressure of the well and explain how this was calculated:

Information Unavailable

AFFIDAVIT

I, George Gainer, having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 19, 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, in existence at the time surface drilling began, which was applicable to the reservoir from which gas is or will be produced and which applied to any other well producing gas in commercial quantities or on which surface drilling began on or after February 19, 1977, and which was capable of producing gas in commercial quantities. I state, further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.



STATE OF WEST VIRGINIA,

COUNTY OF Roane, TO WIT:

I, Norma Cooper, a Notary Public in and for the state and county aforesaid,

do certify that George Gainer, whose name is signed to the writing above, bearing date

the 18 day of February, 1980 has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 18 day of February, 1980.

My term of office expires on the 29 day of March, 1987.

Norma Cooper
Notary Public

[NOTARIAL SEAL]

11/21/80

11/15/79

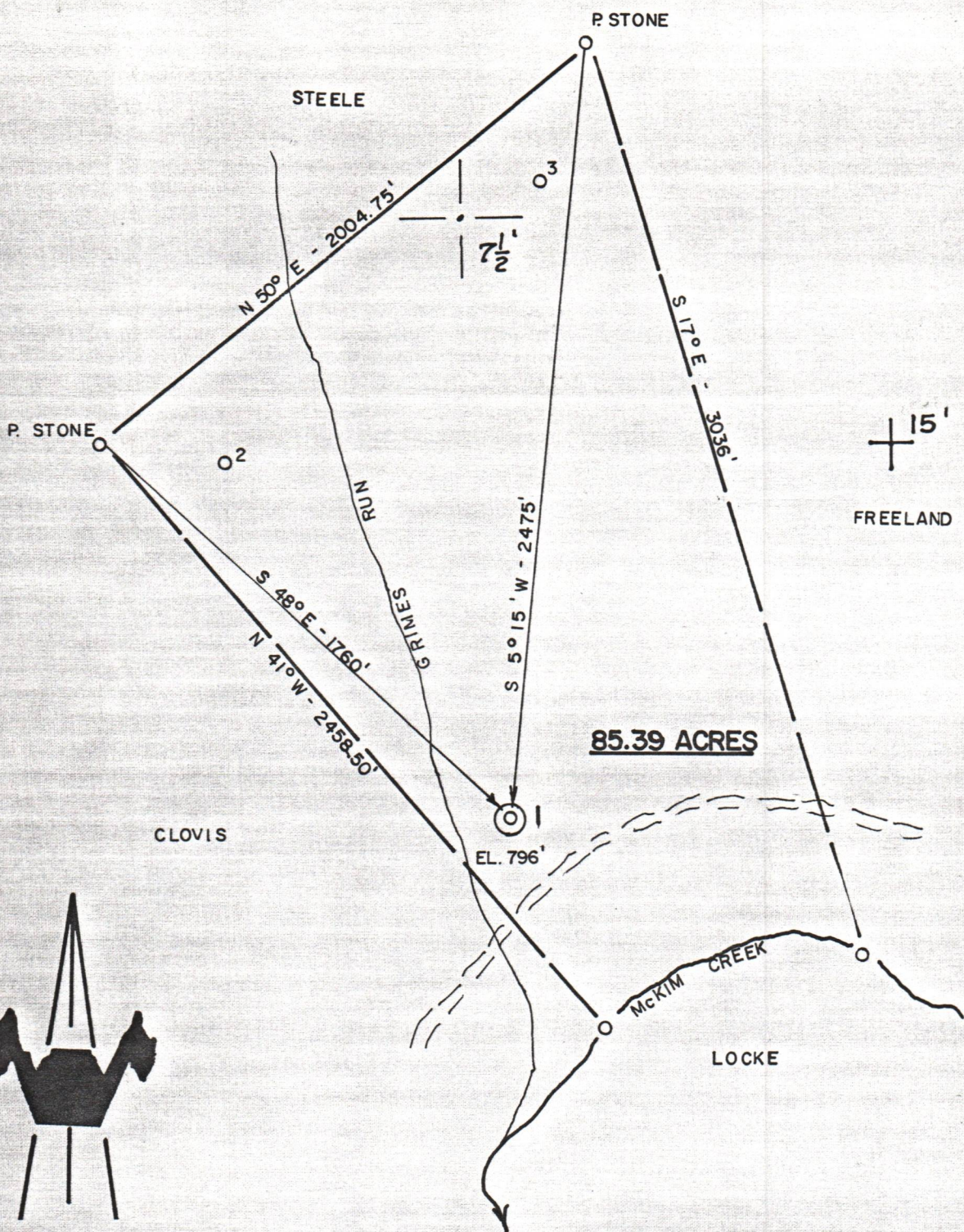
Latitude (15') 39° 22' 30"

39° 25' 30"

4680' SOUTH

8820' WEST

Longitude



ACCURACY: 1' / 200'

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill
- Other

Formation 5 TH SAND

Oil

Est. Depth 2950'

Gas

Other

9/29/81

Source of Elevation B.M. - HEBRON - (758')

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.

Chet Waterman

Company KEY OIL COMPANY
227 WASHINGTON AVE CLARKSBURG WV 26301

Address WEST UNION, WV

Surface Owner S. K. McCOLLOUGH

Mineral Owner " "

Well No. 1 Acres 85.39

Elevation 796'

Quadrangle ST. MARYS ELLENBORO Series 7.5'

County PLEASANTS District LAFAYETTE

Date 11/2/79 Scale 1" = 500'

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

WELL LOCATION MAP.
47 - 073 - 0814-F
STATE COUNTY PERMIT

+ Denotes location of well on United States Topographic Maps.

Engineer CHET WATERMAN

Engineer's Registration No. 3788 File No. 79-806

Gordon & Big in Jun