



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
DEC - 5 1979

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

79

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

DATE December 5, 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. 3 Elevation 892'
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 8-6-80.

INSPECTOR
TO BE NOTIFIED Phillip Lee Tracy
ADDRESS P.O. Box 173, Middlebourn, WV 2614
PHONE 758-4573

Robert H. Bell
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 August 11, 1979 by S. K. McCullough made to Key Oil Company and recorded on the 6th day of September 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 McCullough
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

47-073-0816

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 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	892'		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

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

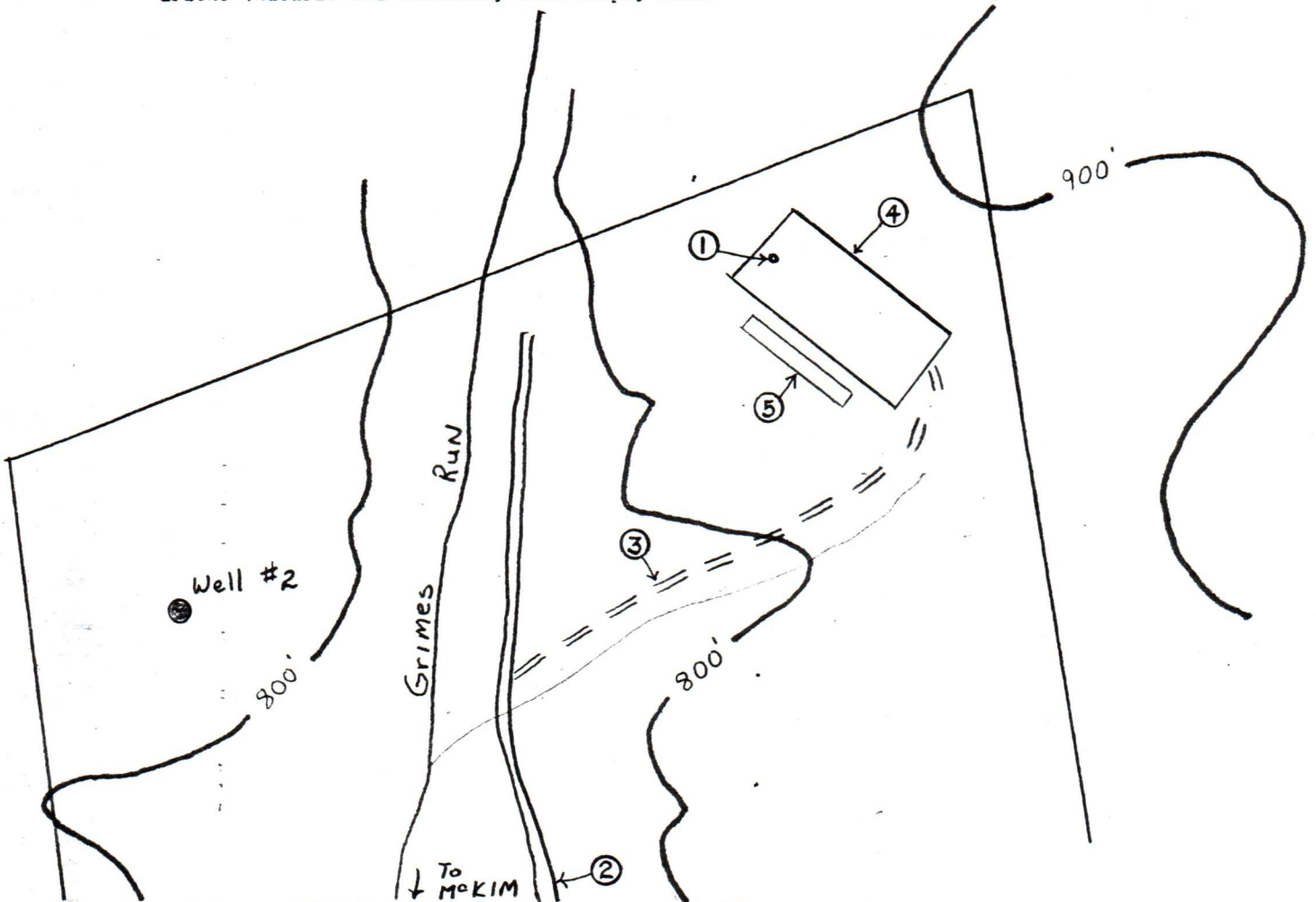
RECLAMATION PLAN

WELL OPERATOR Key Oil Company DESIGNATED AGENT Joe McLaughlin
Address 227 Washington Ave., Suite 3F Address 227 Washington Ave., Suite 3F
Clarksburg, WV 26301 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 1500 feet away. The location and pit will be reclaimed upon completion of the well allowing only the area needed to work the well.

RECEIVED

DEC - 5 1979

Jodd

OIL & GAS DIVISION
DEPT. OF MINES

Key Oil Company

Well Operator

By Joe McLaughlin
President



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division
WELL RECORD

RECEIVED
JAN 16 1980

OIL & GAS DIVISION
DEPT. OF MINES

Quadrangle Ellenboro
Permit No. 47-073-0816
Pleasants

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

Company <u>Key Oil Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>227 Washington Ave., Clarksburg, WV</u>				
Farm <u>S. K. McCullough</u> Acres <u>85.39</u>	Size			
Location (waters) <u>McKim Creek</u>	20-16			
Well No. <u>3</u> Elev. <u>892'</u>	Cond.			
District <u>Lafayette</u> County <u>Pleasants</u>	13-10"			
The surface of tract is owned in fee by _____	9 5/8			
<u>S. K. McCullough</u>	8 5/8	565'		
Address <u>Hebron, WV</u>	7			
Mineral rights are owned by <u>S. K. McCullough</u>	5 1/2			
Address <u>Hebron, WV</u>	4 1/2	2810'		
Drilling Commenced <u>12-15-79</u>	3			
Drilling Completed <u>12-20-79</u>	2			
Initial open flow _____ cu. ft. _____ bbls.	Liners Used			
Final production <u>492,000</u> cu. ft. per day _____ bbls.				
Well open <u>24</u> hrs. before test <u>725</u> RP.				

Well treatment details: Attach copy of cementing record.
1000 bbls 300 sks 80/100 550 sks 20/40 2736-2742

Coal was encountered at _____ Feet _____ Inches
Fresh water 200' Feet _____ Salt Water _____ Feet _____
Producing Sand Fifth Sand Depth 2742'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Big Injun			1840	1952		
Squaw			1990	2004		
Gantz			2264	2274		
Gordon			2568	2576		
Fifth Sand			2736	2742		

(over)

* Indicates Electric Log tops in the remarks section.



RECEIVED
AUG 24 1984

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
August 1, 1984

COMPANY Key Oil Company

PERMIT NO 073-0816 (12-6-79)

P. O. Box 709

FARM & WELL NO S. K. McCullough

Spencer, West Virginia 25276

DIST. & COUNTY Lafayette/Pleasants

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.04	Prepared before Drilling to Prevent Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.03	High-Pressure Drilling	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.01	Required Permits at Wellsite	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.03	Adequate Fresh Water Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.02	Adequate Coal Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.01	Adequate Production Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.04	Adequate Cement Strenght	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.05	Cement Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.02	Maintained Access Roads	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.01	Necessary Equipment to Prevent Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.04	Reclaimed Drilling Pits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.05	No Surface or Underground Pollution	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.07	Requirements for Production & Gathering Pipelines	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.01	Well Records on Site	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.02	Well Records Filed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.05	Identification Markings	<input checked="" type="checkbox"/>	<input type="checkbox"/>

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED R. H. Lowther

DATE Aug 22, 1984




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

T. L. ...
Administrator-Oil & Gas Division

September 13, 1984

DATE

RECEIVED
FEB 20 1980
 OIL & GAS DIVISION
 DEPT. OF MIN.

1.0 API well number: (If not available, leave blank. 14 digits.)	<u>47-073-0816</u>																																	
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	<u>103</u> Section of NGPA	<u>N/A</u> Category Code																																
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	<u>2742</u> feet																																	
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	<table style="width: 100%; border: none;"> <tr> <td colspan="4"><u>Key Oil Company</u></td> <td style="text-align: right;">Seller Code</td> </tr> <tr> <td colspan="4">Name</td> <td></td> </tr> <tr> <td colspan="4"><u>C/O Hays & Co., P. O. Box 590</u></td> <td></td> </tr> <tr> <td colspan="4">Street</td> <td></td> </tr> <tr> <td><u>Spencer</u></td> <td style="text-align: center;"><u>WV</u></td> <td colspan="2"><u>25276</u></td> <td></td> </tr> <tr> <td>City</td> <td style="text-align: center;">State</td> <td colspan="2">Zip Code</td> <td></td> </tr> </table>				<u>Key Oil Company</u>				Seller Code	Name					<u>C/O Hays & Co., P. O. Box 590</u>					Street					<u>Spencer</u>	<u>WV</u>	<u>25276</u>			City	State	Zip Code		
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5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	<table style="width: 100%; border: none;"> <tr> <td colspan="4"><u>N/A</u></td> <td></td> </tr> <tr> <td colspan="4">Field Name</td> <td></td> </tr> <tr> <td colspan="4"><u>Pleasants</u></td> <td style="text-align: center;"><u>WV</u></td> </tr> <tr> <td colspan="4">County</td> <td style="text-align: center;">State</td> </tr> </table>				<u>N/A</u>					Field Name					<u>Pleasants</u>				<u>WV</u>	County				State										
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Mo.	Day	Yr.																																
(c) Name and identification number of this well: (35 letters and digits maximum.)	<u>S. K. McCollough #3</u>																																	
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	<u>Uncommitted</u>																																	
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	<table style="width: 100%; border: none;"> <tr> <td colspan="4">Name</td> <td style="text-align: right;">Buyer Code</td> </tr> <tr> <td colspan="4"> </td> <td></td> </tr> </table>				Name				Buyer Code																									
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(b) Date of the contract:	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"> _ </td> <td style="text-align: center;"> _ </td> <td style="text-align: center;"> _ </td> <td style="text-align: center;"> _ </td> <td></td> </tr> <tr> <td style="text-align: center;">Mo.</td> <td style="text-align: center;">Day</td> <td style="text-align: center;">Yr.</td> <td></td> <td></td> </tr> </table>				_	_	_	_		Mo.	Day	Yr.																						
_	_	_	_																															
Mo.	Day	Yr.																																
(c) Estimated annual production:	<u>18</u> MMcf.																																	
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">(a) Base Price (\$/MMBTU)</th> <th style="width: 25%;">(b) Tax</th> <th style="width: 25%;">(c) All Other Prices [Indicate (+) or (-).]</th> <th style="width: 25%;">(d) Total of (a), (b) and (c)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><u>2.173</u></td> <td style="text-align: center;">-.-</td> <td style="text-align: center;">-.-</td> <td style="text-align: center;"><u>2.173</u></td> </tr> <tr> <td style="text-align: center;"><u>2.173</u></td> <td style="text-align: center;">-.-</td> <td style="text-align: center;">-.-</td> <td style="text-align: center;"><u>2.173</u></td> </tr> </tbody> </table>	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)	<u>2.173</u>	-.-	-.-	<u>2.173</u>	<u>2.173</u>	-.-	-.-	<u>2.173</u>	-.-	-.-	-.-																		
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8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	-.-	-.-	-.-	-.-																														
9.0 Person responsible for this application:	<table style="width: 100%; border: none;"> <tr> <td colspan="2"><u>Hays & Co.</u></td> <td colspan="2"><u>Agent</u></td> </tr> <tr> <td colspan="2">Name</td> <td colspan="2">Title</td> </tr> <tr> <td colspan="4" style="text-align: center;">  </td> </tr> <tr> <td colspan="2"><u>Feb. 18, 1980</u></td> <td colspan="2"><u>(304) 927-2650</u></td> </tr> <tr> <td colspan="2">Date Application is Completed</td> <td colspan="2">Phone Number</td> </tr> </table>				<u>Hays & Co.</u>		<u>Agent</u>		Name		Title						<u>Feb. 18, 1980</u>		<u>(304) 927-2650</u>		Date Application is Completed		Phone Number											
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Agency Use Only
Date Received by Juris. Agency
FEB 20 1980
Date Received by FERC

WELL DETERMINATION REPORT

PARTICIPANTS:

DATE: JUN 18 1980

BUYER-SELLER CODE

WELL OPERATOR: Key Oil Company

N/A

FIRST PURCHASER: Un Comitted

OTHER:

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

80/2/20 . 103 . 073 . 0816

Use Above File Number on all Communications

Relating To Determination of this Well

Qualified as Section 103, new onshore production well.

Proved

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 Gailer
- 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: 12.15.79 Date completed 12.20.79 Deepened _____

(5) Production Depth: 2742

(5) Production Formation: 5th Sand

(5) Final Open Flow: 492,000

(5) After Free. R.P. 725 - 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? _____

DeLi

Date Feb. 18, 1980

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

Operator's Well No. 3

API Well No. 47 - 073 - 0816
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 892
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: 12/15/79

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, 19 80, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 18 day of February, 19 80.

My term of office expires on the 29 day of March, 19 87.

[NOTARIAL SEAL]

Norma Cooper
Notary Public

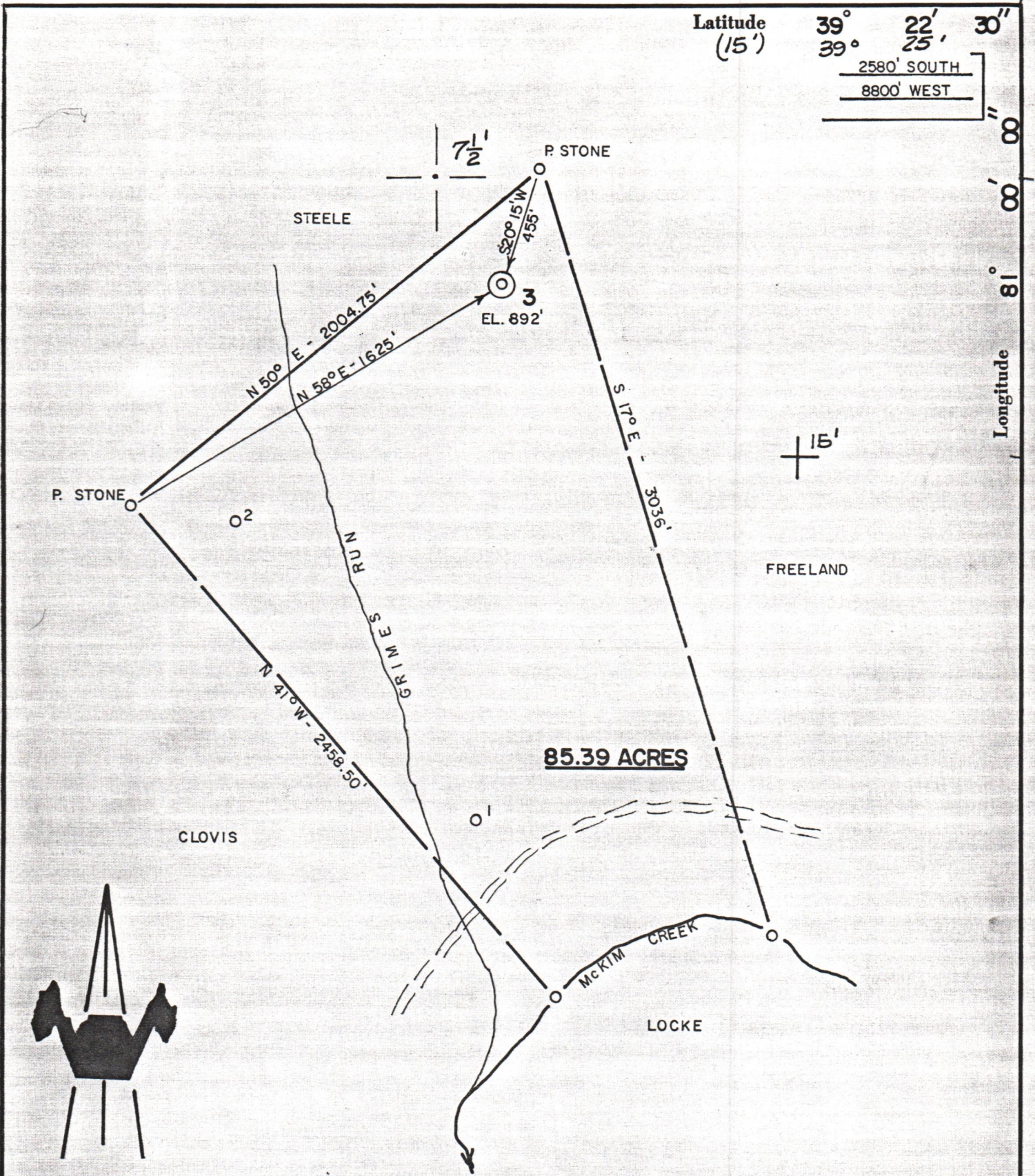
12/5/79 R

Latitude (15')

39° 22' 30" / 39° 25'

2580' SOUTH / 8800' WEST

Longitude 81° 00' 00"



ACCURACY: 1' / 200'

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

Formation 5TH SAND

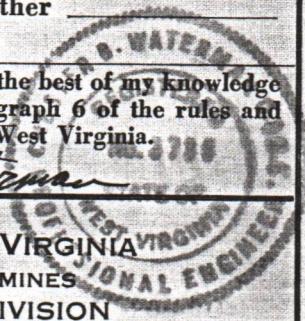
Est. Depth 2950'

- Oil
- Gas
- Other

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
 Address CLARKSBURG WV 26301
 Surface Owner S. K. Mc COLLOUGH
 Mineral Owner " "

Well No. 3 Acres 85.39
 Elevation 892'
 Quadrangle ST MARYS ELLENBORO Series 15' 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 - 0816
 STATE COUNTY PERMIT

+ Denotes location of well on United States Topographic Maps.
 Engineer CHET WATERMAN
 Engineer's Registration No. 3788 File No. 79-808