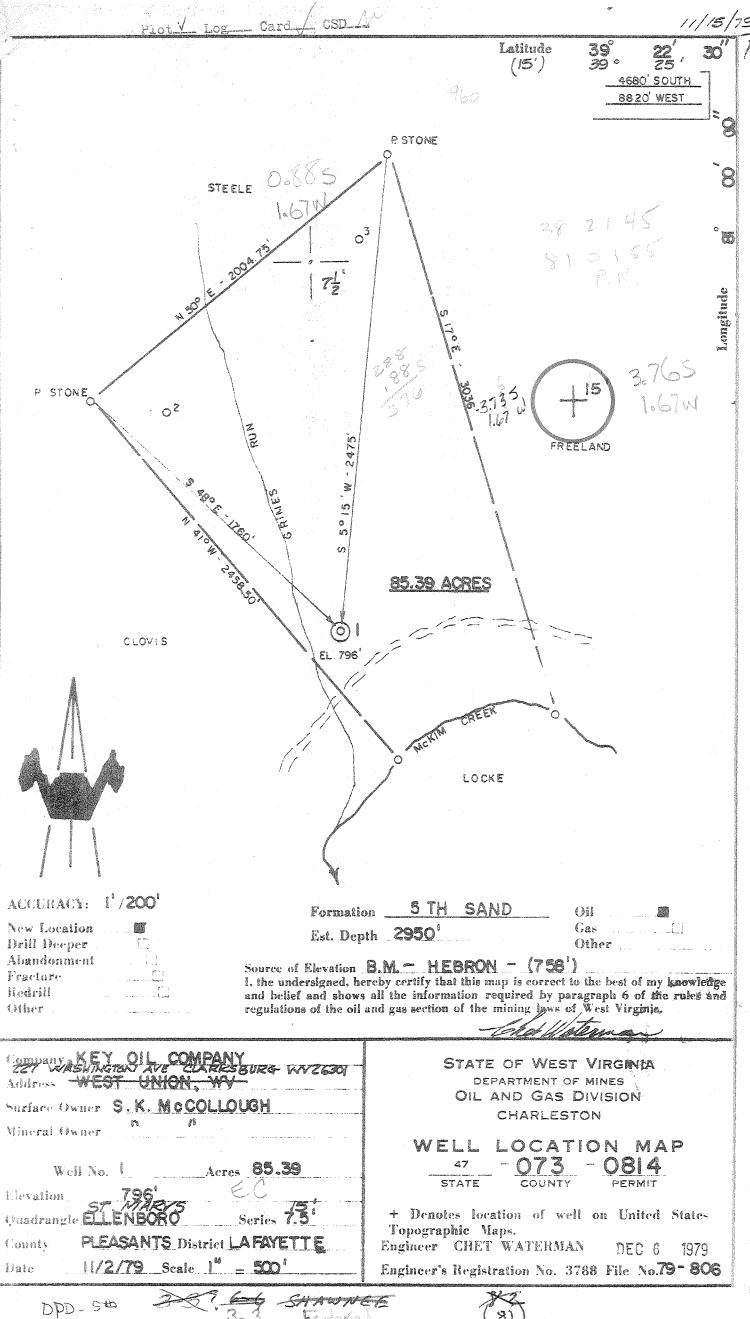


GOR SON





## Oil and Gas Division

#### WELL RECORD

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

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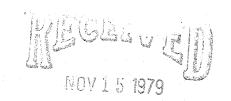
		RECORD	C"\ [	Rithary GA	SK DIVISION
Quadrangle			L)t		F Maries
Permit No. 47-073-0814					Comb. Storage
Termit 140.				Disposal	(Kind)
Company Key 011 Comp	an v	The second of th	And the second s		\Kind)
Address Clarksburg,	WV	Casing and	Used in	Left	Coment fill up
Farm S. K. McCullough	Acres 85.39	Tubing	Drilling	in Well	Cu. ft. (Sks.)
Location (waters) McKim Cr	<u>eek</u>	Size			A CONTRACTOR OF THE CONTRACTOR
Well No. 1 District Lafayette Coun	Elev. 796' Pleasants	20-16			· ·
The surface of tract is owned in fee	by	Cond. 13-10"			
S. K. McCullo	ough	9 5/8			- September 1
Address <u>Hebron</u> , WV		8 5/8	840"	and the second s	
Mineral rights are owned by S. K.	. McCullough	7			
Address Hebro		5 1/2			
Drilling Commenced 11-26-79  Drilling Completed 12-1-79	)	4 1/2	2710'		
Initial open flow N/A	£1 L.L.	3			
Initial open flow $\frac{N/A}{250,669}$ cu.	er dav bbls	Liners Used			
Well open 24 hrs. befo	ore test 650 RP				
Well treatment details:		Attach copy of	cementing recor	·d	eterprietti de, et accourt autoristatura esperapolituralità i dili e di mandica.
1130 bbls 300 sks	80/100 550	sks 20/40	2635-2	650	
			**************************************		
Coal was encountered at	Fee	1	Inches	***************************************	
Fresh water 100°	Feet	Salt \	Water		Feet
roducing Sand <u>Fifth Sa</u> nd		Depti	2754		
Formation Color Hard or	Soft Top Feet	Bottom Feet	Oil, Gas or	Water *	Remarks
Big Injun		Andread Contractive on Contractive or contractive cont			
	1710	1860			
Gantz	2150	2176			
Gordon	2460	2480			
Fifth	2635	2650			
		2030			
		Bernanden and a second a second and a second and a second and a second and a second a second and			
	**************************************		3 6 4		
		Superior Control Contr	248	CARDING PRODUCTION	
			/7	0	
	Valence				
	*design in contract				
		District the second sec			
	No. of Contract of	an analysis of the second seco			

<sup>(</sup>over)

<sup>\*</sup> Indicates Electric Log tops in the remarks section.



**DEPARTMENT OF MINES** 



OIL & GAS DIVISION DEFT. OF MINES

### Oil and Gas Division

## OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES, Charleston, W. Va.	DATENovember 14, 1979
Surface Owner S. K. McCullough	
Address Mebron, WV	Address 227 Washington Ave, Clarksburg,
Mineral Owner S. K. McCullough	2 7 36000 25 30
Address Mebron, WV	Acres
Adutes	Location (waters)
Coal Owner	Well NO. Elevation
Address	The state of the s
Coal Operator	Quadrangle
Address	<del></del>
Il provisions being in accordance with Chapter 22, f the W. Va. Code, the location is hereby approved	INSPECTOR
drilling	TO BE NOTIFIED Phillip Lee Tracy
personal commenced by 7-15-80	ADDRESS P.O. Box 173, Middlebourn, WV 261
Notot h Lell	PHONE 758-4573
Decaty Director - Oil & Gas Division	HOND
GENTLEMEN:  The undersigned well operator is entitled to describe the control of	brill upon the above named farm or tract of land for oil and gas, having fee
The undersigned well operator is entitled to dittle thereto, (or as the case may be) under grand McCullough made to Key 011 (	longary and recorded on the Oth day of Sentember
The undersigned well operator is entitled to d	nt or lease dated 19 by and recorded on the day of
The undersigned well operator is entitled to detitle thereto, (or as the case may be) under grand McCullough made to County, Book	nt or lease dated 19 by and recorded on the day of Page
The undersigned well operator is entitled to distill thereto, (or as the case may be) under grant McCullough made to County, Book  NEW WELL DRILL DRIL	and recorded on the day of  Page REDRILLFRACTURE OR STIMULATE
The undersigned well operator is entitled to distill thereto, (or as the case may be) under grant McCullough made to County, Book  NEW WELL DRILL DRIL	nt or lease dated 19 by and recorded on the day of Page
The undersigned well operator is entitled to dittle thereto, (or as the case may be) under grant McCullough made to County, Book  NEW WELL DRILL DO OIL AND GAS WELL ORIGINALL	and recorded on the
The undersigned well operator is entitled to distill thereto, (or as the case may be) under grant McCullough made to County, Book  19	and recorded on the day of  Page  EEPER
The undersigned well operator is entitled to distill thereto, (or as the case may be) under grant McCullough made to County, Book  19 7 in County, Book  NEW WELL DRILL	and recorded on the
The undersigned well operator is entitled to distill thereto, (or as the case may be) under grant McCullough made to County, Book  19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	and recorded on the
The undersigned well operator is entitled to dittle thereto, (or as the case may be) under grant McCullough made to County, Book  NEW WELL DRILL	and recorded on the
The undersigned well operator is entitled to dittle thereto, (or as the case may be) under grant McCullough made to County, Book 19—79, in County, Book NEW WELL DRILL D	and recorded on the
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The undersigned well operator is entitled to dittle thereto, (or as the case may be) under grant McCullough made to County, Book 19—79, in County, Book NEW WELL DRILL D	and recorded on the

\*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.

PINKETROND

47-073-0814

PERMIT NUMBER

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

DRILLING CONTRACTOR: (If NAMENOT KNOWN at t	Known		
NAME & Climan & C	•	RESPONSIBLE AGENT:	
	illo time		
ADDRESS		ADDRESS 227 Wash	ington Ave. Glarksbur
FELEPHONE		TELEPHONE62	3-3783
ESTIMATED DEPTH OF COMPL	ETED WELL: 2950'	ROTARY	CABLE TOOLS
PROPOSED GEOLOGICAL FORM	MATION: 5th Sand		
TYPE OF WELL: OIL_	GAS	COMB. STORAGE	DISPOSAL
			OD OTHER
		will i bo	ODOTHER
TENTATIVE CASING PROGRAM	I:	J.	
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN	CEMENT LITTUP
0 - 16	DIVICEING	WELL	OR SACKS - CUBIC 1-7.
3 - 10			
- 5/8			
- 5/8	796		Cenent to surface
	E . G. *4P		
1/2			
1/2	2950		Coment 300 - above
			Perf. Top
ners			Perf. Bottom Perf. Top
			Perf. Bottom
			1.3
SUBMIT FIVE (5) COPIES (OF PLAT.  DRILL DEEPER OR REDRILL SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTEE FRACTURE - STIMULATE:  OIL AND/OR GAS WELL OR BOND, PERMANENT PLAT AND/OR GAS WELL OR OIL AND/OR OIL AND/OR GAS WELL OR OIL AND/OR OIL AND/	OF OG - 1, \$100.00 PERM  F OG - 1, SHOWING ORIGO 1929, A PERMANENT (  O.  IGINALLY DRILLED BEFO AND ORIGINAL WELL RE	MIT FEE, PERFORMANCE BO GINAL PERMIT NUMBER AND COPY OF THE PLAT AND TH DRE JUNE 5, 1929, FIVE (5) CO CCORD.	HE ORIGINAL WELL RECORD OPIES OG - 1, PERFORMANCE
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DRILL:  SUBMIT FIVE (5) COPIES ( OF PLAT.  DRILL DEEPER OR REDRILL  SUBMIT FIVE (5) COPIES O WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTEE  FRACTURE - STIMULATE: OIL AND/OR GAS WELL OR: BOND, PERMANENT PLAT A OIL AND/OR GAS WELL OR: ING ORIGINAL PERMIT NUM  Required forms must be filed four (24) hours in advance.	OF OG - 1, \$100.00 PERM  F OG - 1, SHOWING ORIGO D 1929, A PERMANENT ( D).  IGINALLY DRILLED BEFO AND ORIGINAL WELL RE IGINALLY DRILLED ON A IBER, AND PERFORMANCE within ninety (90) days of	GINAL PERMIT NUMBER AND COPY OF THE PLAT AND THE PLAT AND THE CORD.  CCORD.  AND/OR AFTER JUNE 5, 1929, E BOND.  completion for bond release. I	ND AND PERMANENT COPY  PERFORMANCE BOND. ON HE ORIGINAL WELL RECORD  OPIES OG - 1, PERFORMANCE  FIVE COPIES OG - 1, SHOW-  Inspector to be notified twenty-
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TO THE DEPARTMENT OF MINES, Charleston, W. Va.

and the well operator authorized to proceed.

Signed by \_

BLANKET BOND

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



STATE OF WEST VIRGINIA

RECEIVED

#### DEPARTMENT OF MINES

#### JUN - 4 1982

June 1, 1982

## Oil and Gas Division

OIL AND GAS DIVISION WY DEPARTMENT OF MINES

## OIL AND GAS WELL PERMIT APPLICATION

	DATE June 1, 1982	
Surface Owner S. K. McCullough	Company Key Oil Compan	Δ .
Address Hebron, W.V.	Address 220 W. Central A	
Mineral Owner S. K. McCullough	Farm S. K. McCullough	85 39
Address Hebron, W. V.	Location (waters) MCKim Cre	Acres
Coal Owner		7061
Address	T - C	Plassants
Coal Operator		County
Address		
TANG FEBRUAR OF THE PROPERTY O	•	
ALL PROVESSION CONTRACTORS OF THE CONTRACTORS OF TH		
ALL PROMISES SERVICES AND DESCRIPTION OF ANY C	CHARLISC 22,	
ARTICE - OT USE W. VA. CODE, THE ENCASION	INSPECTOR BLILL	
APPROVED FOR fracture	TO BE NOTIFIED Phillip Lee	e Tracy
5-23	3-83 ADDRESS <u>P.O.Box</u> 173, Midd	llebourn, WV 2614
	750 /570	`sh4#
	PHONE 758-4573	
GENTLEMEN:	• 	
The undersigned well operator is entitled to dr	rill upon the above named farm or tract of land for	T Oil and gas having fee
title thereto, (or as the case may be) under gran	nt or lease dated August 11 1979	he S.K.
McCullough made to Key Oil C	Company and recorded on the 6th	den es Sept.
1979, in Pleasants County, Book		day of
·	EEPERREDRILL _XFRACTI	_
	Y DRILLED BEFORE JUNE 5, 1969.	JRE OR STIMULATE
The enclosed plat was prepared by a registered have been notified as of the above date.	d engineer or licensed land surveyor and all coal o	
		where and/or operators
	and breaker of the control of	
The above named coal owners and/or operator :	are hereby notified that any objection they wish to ed by, or filed with the Department of Mines with	
The above named coal owners and/or operator at to make by Section 3 of the Code, must be received.  Copies of this notice and the enclosed plat were	ed by, or filed with the Department of Mines with	o make, or are required in ten (10) days. *
The above named coal owners and/or operator at to make by Section 3 of the Code, must be received.  Copies of this notice and the enclosed plat were or coal owners at their above shown respective and	e mailed by registered mail, or delivered to the above	o make, or are required in ten (10) days. * e named coal operators
The above named coal owners and/or operator at to make by Section 3 of the Code, must be received.  Copies of this notice and the enclosed plat were or coal owners at their above shown respective and	e mailed by registered mail, or delivered to the above ddress day	o make, or are required in ten (10) days. *  e named coal operators  before, or on the Virginia.
The above named coal owners and/or operator at to make by Section 3 of the Code, must be received.  Copies of this notice and the enclosed plat were or coal owners at their above shown respective adserted as with the mailing or delivery of this copy.	e mailed by registered mail, or delivered to the above ddress day	o make, or are required in ten (10) days. *  e named coal operators  before, or on the Virginia.
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The above named coal owners and/or operator at to make by Section 3 of the Code, must be received.  Copies of this notice and the enclosed plat were or coal owners at their above shown respective adsame day with the mailing or delivery of this copy.  PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	e mailed by registered mail, or delivered to the above	o make, or are required in ten (10) days. *  e named coal operators  before, or on the Virginia.
The above named coal owners and/or operator at to make by Section 3 of the Code, must be received.  Copies of this notice and the enclosed plat were or coal owners at their above shown respective admits a same day with the mailing or delivery of this copy.  PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  WEST VIRGINIA GEOLOGICAL AND	ved by, or filed with the Department of Mines withing emailed by registered mail, or delivered to the above ddress day day to the Department of Mines at Charleston, West V Very truly yours, Market Mar	o make, or are required in ten (10) days. *  e named coal operators  before, or on the Virginia.  ashurlag
The above named coal owners and/or operator at to make by Section 3 of the Code, must be received.  Copies of this notice and the enclosed plat were or coal owners at their above shown respective adsame day with the mailing or delivery of this copy.  PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY	ved by, or filed with the Department of Mines withing mailed by registered mail, or delivered to the above ddress day day	o make, or are required in ten (10) days. *  e named coal operators  before, or on the Virginia.  ashurlag
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The above named coal owners and/or operator is to make by Section 3 of the Code, must be received Copies of this notice and the enclosed plat were or coal owners at their above shown respective admined day with the mailing or delivery of this copy.  PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879	ved by, or filed with the Department of Mines within the mailed by registered mail, or delivered to the above ddress day day to the Department of Mines at Charleston, West V  Very truly yours,	o make, or are required in ten (10) days. *  e named coal operators  before, or on the Virginia.  ashurlag
The above named coal owners and/or operator is to make by Section 3 of the Code, must be received Copies of this notice and the enclosed plat were or coal owners at their above shown respective advance day with the mailing or delivery of this copy.  PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879  MORGANTOWN, WEST VIRGINIA 26505	wed by, or filed with the Department of Mines within the mailed by registered mail, or delivered to the above ddress day day day to the Department of Mines at Charleston, West V Very truly yours,	o make, or are required in ten (10) days. *  e named coal operators  before, or on the Virginia.  ashurlag
The above named coal owners and/or operator is to make by Section 3 of the Code, must be received Copies of this notice and the enclosed plat were or coal owners at their above shown respective advance day with the mailing or delivery of this copy.  PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879  MORGANTOWN, WEST VIRGINIA 26505	wed by, or filed with the Department of Mines within the mailed by registered mail, or delivered to the above ddress day day day to the Department of Mines at Charleston, West V Very truly yours,	o make, or are required in ten (10) days. *  e named coal operators  before, or on the Virginia.  ashurbus  act  Avenue

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

47-73-0814 REFRAC

PERMIT NUMBER

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

PROPOSED WORK ORDER TO	DRILL	DEEPEN X FR	ACTURE-STIMULATE
DRILLING CONTRACTOR: (If		RESPONSIBLE AGENT:	7 77 6
NAME Not known at th		220 17 00-	chlin
ADDRESS		/01/.\ C	ntral Ave.,Titusville
TELEPHONE			327-1820 PA
ESTIMATED DEPTH OF COMPL	ETED WELL: 2500'		CABLE TOOLS X
PROPOSED GEOLOGICAL FORM	MATION: <u>BIG INJUN</u>	e de la companya de l	
TYPE OF WELL: OIL_	GAS	COMB. X STORAGE	DISPOSAL
	RECYC	LING WATER FLO	OD OTHER
•			
TENTATIVE CASING PROGRAM	<b>1</b> :		
		LIST IN	CEMENT LILL UP
CASING AND TUBING SIZE	USED FOR DRILLING	WELL	OR SACKS - CUBIC 1-1.
20 - 16			
9 - 5/8			
8 - 5/8	886	880'	(in well)
7			
5 ½			
4 ½	2500'	9500'	200 SKS or as reg
3			PROPERTOREUS 15.010
2			Perk Bottom
Liners			Perf. Top Perf. Bottom
			Terr. Bottom
APPROXIMATE FRESH WATER	DEPTHS N/A FEE	TSALT WATER _	FEET
APPROXIMATE COAL DEPTHS	N/A		The state of the s
IS COAL BEING MINED IN TH	ie area? N/A	BY WHOM?	
TO DRILL:		DAM DOD DODDODMANCE DA	OND AND PERMANENT COPY
	OF OG - 1, \$100.00 PER	MII FEE, FERFORMANCE DO	OND AND PERMANENT COPY
OF PLAT.			
TO DRILL DEEPER OR REDRII			
SUBMIT FIVE (5) COPIES	OF OG - 1, SHOWING OR	IGINAL PERMIT NUMBER AN	D PERFORMANCE BOND. ON
		COPY OF THE PLAT AND T	THE ORIGINAL WELL RECORD
MUST ALSO BE SUBMITT	EU.		
TO FRACTURE - STIMULATE:			
OIL AND/OR GAS WELL C	RIGINALLY DRILLED BE	FORE JUNE 5, 1929, FIVE (5)	COPIES OG - 1, PERFORMANCE
BOND, PERMANENT PLAT	r and original well i	RECORD.	
			9, FIVE COPIES OG - 1, SHOW-
ing original permit ni	UMBER, AND PERFORMAN	CE BOND.	
Required forms must be file	ed within ninety (90) days	of completion for bond release.	Inspector to be notified twenty-
four (24) hours in advance.		-	
			12 12 12 12 12 12 12 12 12 12 12 12 12 1
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, Ag	ent for	Coal Company, Owner	r or Operator of the coal under
		maps this proposed well local	
	•		vell being drilled at this location,
We the			
•	complied with all rules and	regulations in Alticies 4, 0, and	7, Chapter 22 of the West Virginia
Code.			
			•
			or Coal Company
			·
			Official Title

TO THE DEPARTMENT OF MINES,

and the well operator authorized to proceed.

"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."



#### STATE OF WEST VIRGINIA

#### DEPARTMENT OF MINES

### Oil and Gas Division



## OIL AND GAS WELL PERMIT APPLICATION

Charlest	,	DATE September 23, 1981
Surface Owner	S. K. McCullough	Company Key Oil Company
Address	Hebron, WV	Address 220 W. Central Ave., Titusville, I
Mineral Owner	S. K. McCullough	
Address	Hebron, WV	Location (waters) McKim Creek
		Jievation
		Quadrangle Ellenboro
Address		
IS PERMIT MUST BE	POSTED AT THE WELL SI	
fracturing	accordance with Chapter 2:  18 location is hereby approve  . This permit shall expire	INSPECTOR TO BE NOTIFIED Phillip Lee Tracy
Tunivas nor com	menced by 5-28-82	ADDRESS P. O. Box 173, Middlebourn, WV 26149
J2 M.		
Deputy Director - Oil	A Agas Mivision	PHONE
GENTLEMEN:	₩	
GENTLEMEN: The undersigned title thereto, (or as McCullough	s the case may be) under gra made toKey Oil Co	drill upon the above named farm or tract of land for oil and gas, having fee ant or lease dated August 11, 19 79 by S. K.  ompany and recorded on the 6th day of Sept.
GENTLEMEN: The undersigned title thereto, (or as McCullough  19_79 in Pleas  NEW OIL A	s the case may be) under gra  made to Key Oil Co asants County, Book  WELL DRILL D  AND GAS WELL ORIGINALI	ant or lease dated August 11, 19 79 by S. K.
GENTLEMEN:  The undersigned title thereto, (or as McCullough  19_79 in Please NEW  OIL A  The enclosed plasses been notified  The above name	made to Key Oil Coasants County, Book  WELL DRILL DAND GAS WELL ORIGINALI  at was prepared by a registere as of the above date.	ant or lease dated August 11, 19 79 by S. K.  ompany and recorded on the 6th day of Sept.  k 153 Page 383  DEEPER REDRILL X FRACTURE OR STIMULATE  LY DRILLED BEFORE JUNE 5, 1969.
GENTLEMEN:  The undersigned title thereto, (or as McCullough  19_79 in Please NEW  OIL A  The enclosed platave been notified  The above name to make by Section or coal owners at	made to Key Oil Constants  County, Book  WELL DRILL D  AND GAS WELL ORIGINALI  at was prepared by a registered as of the above date.  Ed coal owners and/or operator of the Code, must be received and the enclosed plat we their above shown respective	ant or lease dated August 11, 19 79 by S. K.  ompany and recorded on the 6th day of Sept.  k 153 Page 383  DEEPER REDRILL X FRACTURE OR STIMULATE  LLY DRILLED BEFORE JUNE 5, 1969.  red engineer or licensed land surveyor and all coal owners and/or operators  or are hereby notified that any objection they wish to make, or are required.
The undersigned title thereto, (or as McCullough  19_79 in Please NEW OIL A  The enclosed plase been notified  The above name to make by Section Copies of this no or coal owners at same day with the	made to Key Oil Constants  County, Book  WELL DRILL D  AND GAS WELL ORIGINALI  at was prepared by a registered as of the above date.  ed coal owners and/or operator of the Code, must be receptive and the enclosed plat we their above shown respective mailing or delivery of this cop	ant or lease dated August 11, 19 79 by S. K.  ompany and recorded on the 6th day of Sept.  k 153 Page 383  DEEPER REDRILL X FRACTURE OR STIMULATE  LY DRILLED BEFORE JUNE 5, 1969.  red engineer or licensed land surveyor and all coal owners and/or operators  or are hereby notified that any objection they wish to make, or are required eived by, or filed with the Department of Mines within ten (10) days. *  ere mailed by registered mail, or delivered to the above named coal operators address day before or on the
The undersigned title thereto, (or as McCullough  19_79 in Plea  NEW  OIL A  The enclosed platave been notified  The above name to make by Section  Copies of this no or coal owners at same day with the  PLEASE SUBMIT GEOPHYSICAL LO	made to Key Oil Constants  County, Book  WELL DRILL DAND GAS WELL ORIGINALIA  at was prepared by a registere as of the above date.  at coal owners and/or operator of the Code, must be receptive and the enclosed plat we their above shown respective mailing or delivery of this coperator of the Copies of the Cop	ant or lease dated August 11, 19 79 by S. K.  ompany and recorded on the 6th day of Sept.  k 153 Page 383  DEEPER REDRILL X FRACTURE OR STIMULATE  LLY DRILLED BEFORE JUNE 5, 1969.  red engineer or licensed land surveyor and all coal owners and/or operators  or are hereby notified that any objection they wish to make, or are required eived by, or filed with the Department of Mines within ten (10) days. *  ere mailed by registered mail, or delivered to the above named coal operators address day before, or on the pay to the Department of Mines at Charleston, West Virginian  Very truly yours,  (Sign Name) Very truly yours,
The undersigned title thereto, (or as McCullough  19_79 in Please NEW OIL A  The enclosed plast been notified  The above name to make by Section or coal owners at same day with the  PLEASE SUBMIT GEOPHYSICAL LOWEST VIRGINIA ECONOMIC SURVE	made to Key Oil Constants  County, Book  WELL DRILL D  AND GAS WELL ORIGINALI  At was prepared by a registered as of the above date.  Ed coal owners and/or operator of the Code, must be recentled and the enclosed plat we their above shown respective mailing or delivery of this cop  COPIES OF ALL  OGS DIRECTLY TO:	ant or lease dated August 11, 19 79 by S. K.  ompany and recorded on the 6th day of Sept.  k 153 Page 383  DEEPER REDRILL X FRACTURE OR STIMULATE  LLY DRILLED BEFORE JUNE 5, 1969.  red engineer or licensed land surveyor and all coal owners and/or operators  or are hereby notified that any objection they wish to make, or are required eived by, or filed with the Department of Mines within ten (10) days. *  ere mailed by registered mail, or delivered to the above named coal operators address day before, or on the py to the Department of Mines at Charleston, West Virginia.  Very truly yours,  (Sign Name) Very truly yours,  Street  220 West Central Avenue
The undersigned title thereto, (or as McCullough  19_79 in Plea  NEW  OIL A  The enclosed pla have been notified  The above name to make by Section  Copies of this no or coal owners at same day with the  PLEASE SUBMIT GEOPHYSICAL LOWEST VIRGINIA ECONOMIC SURVEP. O. BOX 879	made to Key Oil Constants County, Book WELL DRILL DAND GAS WELL ORIGINALIS at was prepared by a registered as of the above date.  The county of the Code, must be recent and the enclosed plat we their above shown respective mailing or delivery of this cope COPIES OF ALL OGS DIRECTLY TO:  GEOLOGICAL AND	ant or lease dated August 11, 19 79 by S. K.  ompany and recorded on the 6th day of Sept.  k 153 Page 383  DEEPER REDRILL X FRACTURE OR STIMULATE  LLY DRILLED BEFORE JUNE 5, 1969.  red engineer or licensed land surveyor and all coal owners and/or operators  or are hereby notified that any objection they wish to make, or are required eived by, or filed with the Department of Mines within ten (10) days. *  ere mailed by registered mail, or delivered to the above named coal operators address day before, or on the py to the Department of Mines at Charleston, West Virginia  Very truly yours,  (Sign Name)  Very truly yours,  (Sign Name)
The undersigned title thereto, (or as McCullough 19_79 in Please OIL A The enclosed planate been notified The above name to make by Section Copies of this nor coal owners at same day with the PLEASE SUBMIT GEOPHYSICAL LOWEST VIRGINIA ECONOMIC SURVEP. O. BOX 879 MORGANTOWN, WE	made to Key Oil Constants  County, Book  WELL DRILL DR	ant or lease dated August 11, 19 79 by S. K.  Ompany and recorded on the 6th day of Sept.  k 153 Page 383  DEEPER REDRILL X FRACTURE OR STIMULATE LY DRILLED BEFORE JUNE 5, 1969.  Tred engineer or licensed land surveyor and all coal owners and/or operators or are hereby notified that any objection they wish to make, or are required eived by, or filed with the Department of Mines within ten (10) days. *  ere mailed by registered mail, or delivered to the above named coal operators address day before, or on the pay to the Department of Mines at Charleston, West Virginia.  Very truly yours,  (Sign Name) Very truly yours,  (Sign Name) Very truly yours,  Street
The undersigned title thereto, (or as McCullough  19_79 in Plea  NEW  OIL A  The enclosed pla have been notified  The above name to make by Section  Copies of this no or coal owners at same day with the  PLEASE SUBMIT GEOPHYSICAL LOWEST VIRGINIA ECONOMIC SURVEP. O. BOX 879	made to Key Oil Constants  County, Book  WELL DRILL DR	ant or lease dated August 11, 19 79 by S. K.  ompany and recorded on the 6th day of Sept.  k 153 Page 383  DEEPER REDRILL X FRACTURE OR STIMULATE  LLY DRILLED BEFORE JUNE 5, 1969.  red engineer or licensed land surveyor and all coal owners and/or operators  or are hereby notified that any objection they wish to make, or are required eived by, or filed with the Department of Mines within ten (10) days. *  ere mailed by registered mail, or delivered to the above named coal operators address day before, or on the py to the Department of Mines at Charleston, West Virginia.  Very truly yours,  (Sign Name) Very truly yours,  (Sign Name) Very truly yours,  Titusville
The undersigned title thereto, (or as McCullough 19_79 in Please OIL A The enclosed planate been notified The above name to make by Section Copies of this nor coal owners at same day with the PLEASE SUBMIT GEOPHYSICAL LOWEST VIRGINIA ECONOMIC SURVEP. O. BOX 879 MORGANTOWN, WE	made to Key Oil Constants  County, Book  WELL DRILL DR	ant or lease dated August 11, 19 79 by S. K.  ompany and recorded on the 6th day of Sept.  k 153 Page 383  DEEPER REDRILL X FRACTURE OR STIMULATE  LLY DRILLED BEFORE JUNE 5, 1969.  Tred engineer or licensed land surveyor and all coal owners and/or operators  or are hereby notified that any objection they wish to make, or are required eived by, or filed with the Department of Mines within ten (10) days. *  ere mailed by registered mail, or delivered to the above named coal operators address day before, or on the phy to the Department of Mines at Charleston, West Virginia.  Very truly yours.  (Sign Name) Very truly yours.  (Sign Name) Street  Titusville  City or Town

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

47-73-0814 FRAC

\_PERMIT NUMBER

Survey

## 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 I			
NAME Not known at th			aughlin
ADDRESS		ADDRESS 220 W. C	Central Ave., Titusville, P
TELEPHONE		TELEPHONE (81	4) 827–1820
ESTIMATED DEPTH OF COMPLI			CABLE TOOLSX
PROPOSED GEOLOGICAL FORM	ATION: Big	Injun	
TYPE OF WELL: OIL	GAS C	OMB. X STORAC	GE DISPOSAL
			LOOD OTHER
TENTATIVE CASING PROGRAM	•		
CLCSIC AND TUDING	LICED LOD	LEFT IN	CEMENT FILL UP
CASING AND TUBING SIZE	USED FOR DRILLING	WELL	OR SACKS - CUBIC 1-1.
20 - 16	erit mengelen gibben di attala makazar Algarak kecaban katibu mengelatak kepamban dan kepamban kebana anda men		
13 - 10			
9 - 5/8			
8 - 5/8			
7			
5 ½			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom
IS COAL BEING MINED IN THE TO DRILL: SUBMIT FIVE (5) COPIES		IT FEE, PERFORMANCE	BOND AND PERMANENT COPY
OF PLAT.	• •	•	
TO DRILL DEEPER OR REDRIL	L:		
	O 1929, A PERMANENT C		AND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD
TO FRACTURE - STIMULATE:			
OIL AND/OR GAS WELL OF	RIGINALLY DRILLED BEFO AND ORIGINAL WELL RE		6) COPIES OG - 1, PERFORMANCE
	RIGINALLY DRILLED ON A MBER, AND PERFORMANCE		929, FIVE COPIES OG - 1, SHOW-
four (24) hours in advance.	within ninety (90) days of	completion for bond releas	e. Inspector to be notified twenty-
The following waiver must be thereof.	pe completed by the coal op	erator if the permit is to b	pe issued within ten days of receipt
WAIVER: I the undersigned, Age	nt fored and place on our mine n		ner or Operator of the coal under
			well being drilled at this location,
			d 7, Chapter 22 of the West Virginia
			For Coal Company

Official Title



#### STATE OF WEST VIRGINIA

#### DEPARTMENT OF MINES

## Oil and Gas Division

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3 9 1990

## OIL AND GAS WELL PERMIT APPLICATION

Charleston, W. Va.	DATE October 14, 1980
Surface Owner S. K. McCullough	Company Key Oil Company
Address Hebron, W.V.	Addres 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	1 STSVATTA Placeante
Coal Operator	Oundards Ellenboro
Address	Quadrangie
PERMIT MUST BE POSTED AT THE WELL SITE	
W. Va. Code, the Incation is hereby approved	INSPECTOR TO BE NOTIFIED Phillip Lee Tracy
racturing . The parer shall expire if	TO BE MOTIFIED THITTIP LEE Tracy
ions have a commenced by 7-25-81	ADDRESS P.O.Box 173, Middlebourn, WV 2614
outy Director - Oil & Gas Division	PHONE 758-4573
	•
GENTLEMEN:	on the above named farm or tract of land for oil and gas, having for
GENTLEMEN:  The undersigned well operator is entitled to drill upo	on the above named farm or tract of land for oil and gas, having fee
GENTLEMEN:  The undersigned well operator is entitled to drill upositle thereto, (or as the case may be) under grant or le	ase dated August 11 1979 by S.K.
GENTLEMEN:  The undersigned well operator is entitled to drill upositle thereto, (or as the case may be) under grant or le  McCullough made to Key Oil Compa	ase dated August 11 1979 by S.K.  Dy and recorded on the 6th day of Sept.
GENTLEMEN:  The undersigned well operator is entitled to drill upositle thereto, (or as the case may be) under grant or learned to Key Oil Compa 979, in Pleasants County, Book 153	ase dated August 11 1979 by S.K.  The state of the state
GENTLEMEN:  The undersigned well operator is entitled to drill upon the difference of the case may be under grant or leading to the case may be under grant or leading to the difference of the difference of the case may be under grant or leading to the difference of the case of the	ase dated August 11 1979 by S.K.  Dy and recorded on the 6th day of Sept.  Page 383  REDRILL X FRACTURE OR STIMULATE
The undersigned well operator is entitled to drill upon itle thereto, (or as the case may be) under grant or less the case	ase dated August 11 1979 by S.K.  Dy and recorded on the 6th day of Sept.  Page 383  REDRILL X FRACTURE OR STIMULATE
The undersigned well operator is entitled to drill upon the interest of the case may be under grant or less the case may be under grant or	ase dated August 11 1979 by S.K.  Dy and recorded on the 6th day of Sept.  Page 383  REDRILL X FRACTURE OR STIMULATE  LLED BEFORE JUNE 5, 1969.
The undersigned well operator is entitled to drill upon itle thereto, (or as the case may be) under grant or less the case may be unde	ase dated August 11 1979 by S.K.  Dy and recorded on the 6th day of Sept.  Page 383  REDRILL X FRACTURE OR STIMULATE  LLED BEFORE JUNE 5, 1969.  Peer or licensed land surveyor and all coal owners and/or operators  reby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. *  d by registered mail, or delivered to the above named coal operators  day
The undersigned well operator is entitled to drill upon it is thereto, (or as the case may be) under grant or leaded to the compart of the McCullough made to Key Oil Compart of the McCullough made to McCullough McCullough made to McCullough McCullough McCullough made to McCullough made to McCullough McCullough made to McCullough McCullough made to McCullough made to McCullough McCullough made to McCullough McCullough made to McCullough made to McCullough McCullough made to McCullough made to McCullough McCullough McCullough made to McCullough McCullough made to McCullough M	ase dated August 11 1979 by S.K.  Dy and recorded on the 6th day of Sept.  Page 383  REDRILL X FRACTURE OR STIMULATE  LLED BEFORE JUNE 5, 1969.  eer or licensed land surveyor and all coal owners and/or operators  reby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. *  d by registered mail, or delivered to the above named coal operators  day before, or on the Department of Mines at Charleston, West Virginia.
The undersigned well operator is entitled to drill upon itle thereto, (or as the case may be) under grant or leaded to the state of the	ase dated August 11 1979 by S.K.  Dy and recorded on the 6th day of Sept.  Page 383  REDRILL X FRACTURE OR STIMULATE  LLED BEFORE JUNE 5, 1969.  Peer or licensed land surveyor and all coal owners and/or operators  reby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. *  d by registered mail, or delivered to the above named coal operators  day
The undersigned well operator is entitled to drill upon itle thereto, (or as the case may be) under grant or less the case may be unde	ase dated August 11 1979 by S.K.  Dy and recorded on the 6th day of Sept.  Page 383  REDRILL X FRACTURE OR STIMULATE  LLED BEFORE JUNE 5, 1969.  eer or licensed land surveyor and all coal owners and/or operators  reby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. *  d by registered mail, or delivered to the above named coal operators  day before, or on the Department of Mines at Charleston, West Virginia.
The undersigned well operator is entitled to drill upon itle thereto, (or as the case may be) under grant or leaded to the state of the	ase dated August 11 1979 by S.K.  Dy and recorded on the 6th day of Sept.  Page 383  REDRILL X FRACTURE OR STIMULATE  LLED BEFORE JUNE 5, 1969.  eer or licensed land surveyor and all coal owners and/or operators  reby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. *  d by registered mail, or delivered to the above named coal operators  day before, or on the Department of Mines at Charleston, West Virginia.  Very truly yours,  (Sign Name) AC Well Operator  220 West Central Avenue
The undersigned well operator is entitled to drill upon itle thereto, (or as the case may be) under grant or leaded to the thereto, (or as the case may be) under grant or leaded to the thereto, (or as the case may be) under grant or leaded to the thereto, (or as the case may be) under grant or leaded to the thereto, (or as the case may be) under grant or leaded to the the thereto, the country, Book 153  NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILL The enclosed plat was prepared by a registered enging lave been notified as of the above date.  The above named coal owners and/or operator are here or make by Section 3 of the Code, must be received by, Copies of this notice and the enclosed plat were mailed or coal owners at their above shown respective address ame day with the mailing or delivery of this copy to the delivery of this copy to the GEOPHYSICAL LOGS DIRECTLY TO:  TEST VIRGINIA GEOLOGICAL AND GEONOMIC SURVEY  A O. BOX 879	ase dated August 11 1979 by S.K.  NY and recorded on the 6th day of Sept.  Page 383  REDRILL X FRACTURE OR STIMULATE  LLED BEFORE JUNE 5, 1969.  eer or licensed land surveyor and all coal owners and/or operators  reby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. *  d by registered mail, or delivered to the above named coal operators before, or on the e Department of Mines at Charleston, West Virginia.  Very truly yours,  (Sign Name) AC Well Operator  Well Operator  220 West Central Avenue
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The undersigned well operator is entitled to drill upon the interest of the case may be under grant or leading the thereto, (or as the case may be) under grant or leading the control of the case may be under grant or leading the control of the case may be under grant or leading to the county, and the case may be under grant or leading to the county, and the case may be under grant or leading to the county, and the case of the county and the county of this copy to the county of this copy to the county of this copy to the county of the cou	ase dated August 11 1979 by S.K.  NY and recorded on the 6th day of Sept.  Page 383  REDRILL X FRACTURE OR STIMULATE  LLED BEFORE JUNE 5, 1969.  eer or licensed land surveyor and all coal owners and/or operators  reby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. *  d by registered mail, or delivered to the above named coal operators day before, or on the e Department of Mines at Charleston, West Virginia.)  Very truly yours,  (Sign Name) Well Operator  220 West Central Avenue  ddress of Operator Titusville

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

47-073-0814-FRAC

47-73-0814

PERMIT NUMBER

and the well operator authorized to proceed.

Signed by \_\_

BLANKET BOHD

"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."

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

PROPOSED WORK ORDER TO.	DRILL	DEEPEN X F	RACTURE STIMULATE			
DRILLING CONTRACTOR: (If		RESPONSIBLE AGENT				
NAME Not known at th		NAME Joe McLau				
ADDRESS		_ ADDRESS 220 W.Ce	ntral Ave., Titusville, Pa			
TELEPHONE		TELEPHONE (814) 827-1820				
ECTIMATED DEPTH OF COMPI	ETED WELL: 2500	ROTARY	CABLE TOOLS X			
PROPOSED GEOLOGICAL FORM	MATION: Gordon &	_Big Injun				
TYPE OF WELL: OIL_	GAS	COMB X STORAGE	E DISPOSAL			
			OODOTHER			
TENTATIVE CASING PROGRAM	<b>i:</b>					
CACING AND TUDING	USED FOR	LEFT IN	CEMENT LILL UP			
CASING AND TUBING SIZE	DRILLING	WELL	OR SACKS - CUBIC 1-1.			
20 - 16	1					
13 - 10						
9 - 5/8						
8 - 5/8						
7						
5 ½	aurreges habit visites par egenegen egen egen egen egen er en		and the second section of the second			
4 1/2	real print the company of the compan		Perf. Top			
3			Perf. Bottom			
Liners			Perf. Top			
<u> </u>			Perf. Bottom			
-						
IS COAL BEING MINED IN TH	E AREA! N/A	BT WHOM:				
SUBMIT FIVE (5) COPIES OF PLAT.	OF OG - 1, \$100.00 PE	RMIT FEE, PERFORMANCE I	BOND AND PERMANENT COPY			
TO DRILL DEEPER OR REDRII	L:					
	to 1929, a permanent		ND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD			
	<b>□</b> 2.0 ·					
TO FRACTURE - STIMULATE:						
BOND, PERMANENT PLAT	AND ORIGINAL WELL	RECORD.	COPIES OG - 1, PERFORMANCE			
OIL AND/OR GAS WELL O ING ORIGINAL PERMIT N			29, FIVE COPIES OG - 1, SHOW-			
Required forms must be file	d within ninety (90) days	of completion for bond release	. Inspector to be notified twenty-			
four (24) hours in advance.						
			Annual Control of the			
The following waiver must	be completed by the coal	operator if the permit is to be	e issued within ten days of receipt			
thereof.						
			er or Operator of the coal under			
this lease have examin	ned and place on our min	e maps this proposed well loc	ation.			
We the	Coal Comp	any have no objections to said	well being drilled at this location,			
providing operator has	complied with all rules and	l regulations in Articles 4, 5, and	17, Chapter 22 of the West Virginia			
Code.						
	complete i - Marchin pr - 1-44 pr	ALES ON EAST TO A WATER COMPANIES AND WATER CONTRACTOR OF THE SECOND CO	For Coal Company			

Official Title



## STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Oil	and G	as Divisio	n		
Quadrangle	WELL	RECORD		Rotary Cable Recycling_ Water Floo Disposal	Comb.
Company Key Oil Company Address Clarksburg, WV Farm S. K. McCullough Ac Location (waters) McKim Creek Well No. 1		Casing and Tubing Size 20-16	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Well No. 1 Ele  District Lafayette County Plea  The surface of tract is owned in fee by  S. K. McCullough  Address Hebron, WV		Cond. 13-10" 9 5/8 8 5/8	840		
Mineral rights are owned by S. K. McCu  Address Hebron, WV  Drilling Commenced 11-26-79  Drilling Completed 12-1-79	llough	7 5 1/2 4 1/2 3	2710		
Initial open flow N/A cu. ft	bbls.	Liners Used  Attach copy of			
1130 bbls 300 sks 80/10	00 550	• •	- 1		
	Fe	etSalt \	Inche		Feet
Producing Sand Fifth Sand  Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or		* Remarks
Big Injun	1710	1860			
Gantz	2150 2460	2176			·
Fifth	2635	2650			

JUL 20 1981

API # 47- 73-00814-P

# STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION SECTION OF OIL AND GAS

### AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, 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.

respective	addresses.	SHOULD DE ME	illed to ea	ch coar opera	acor at their
Farm name:	SHOWMAN,	BILL	Operator	Well No.:SK Mo	CULLOUGH 1
LOCATION:	District: Latitude:	8600 Feet	South of 39	ELLENBORO County: PLEASANT Deg. 22 Min. 3 Deg. 0 Min. 0	30 Sec.
Well Type:	OIL	_ GAS			
Company: F	Pardee Explor CVB - Suite 9 Charleston, W	ation Company 10, 300 Capito1 V 25301	Coal C St. or Own	perator <u>NA</u> er	
Agent:	Jeffrey Brow	n	Coal O	perator <u>NA</u>	RECEIVED
Permit Issu	ed: 10/26/	98	OI OWII		iffice of Oil & Gas  Permitting
STATE OF WE	ST VIRGINI Upshur	Α,	AFFIDAVIT		N 1 1 1999 Wy Division of
the above and filling Gas Inspect commenced	named well named well g the above tor repre on the as plugged	ing and filli l operator, e well, and _ esenting the 30th d	ng oil and g and particip Samuel He Director, av of Septe	mer  say that they a as wells and we ated in the work resman say that say that say that say that say lowing manner:  PIPE REMOVED	re employed by k of plugging oil and id work was and that
Cement		2522 - TD	2369		
Ge1		2369	1900	1100' of $4\frac{1}{2}$	1610
Cement		1900	1700		
Gel		1700	1100	8 5/8"	840
Cement		1100	1000		
Ge1		1000	600		
Cement		600	500		A A Total
Gel Cement Descrip	otion of mo	500 50 50 50 50 50 50	0 Pipe 48" above	ground	MS 1115159
and that					
the	at the wor	k of pluggi	ng and filling	ng said well wa	s completed on
	at the wor	k of pluggi	ng and filling, 19 <u>98</u> .	ng said well wa	s completed on
And furthur	at the wor lay of <u>Oc</u>	k of pluggi tober	ng and filli	ng said well wa	
Sworn and su	at the worday of oc deponents abscribe be	tober saith not.	ng and filli	ng said well wa Pofus L Who Umin	ν η , 1998 Θ
Sworn and su My commissio	at the worday of <u>oc</u> deponents abscribe be on expires:	saith not.  efore me this  11-03-03	ng and filling, 19 <u>98</u> .	ng said well wa  The Luke  Chair  Of November	) [T
Sworn and su My commissic <i>NATE, TNS</i>	at the worday of oc deponents abscribe be on expires:	saith not.  efore me this  11-03-03	ng and filling, 19 <u>98</u> .  2nd day of the day	ng said well wa Pofus L Who Umin	, 1998 C