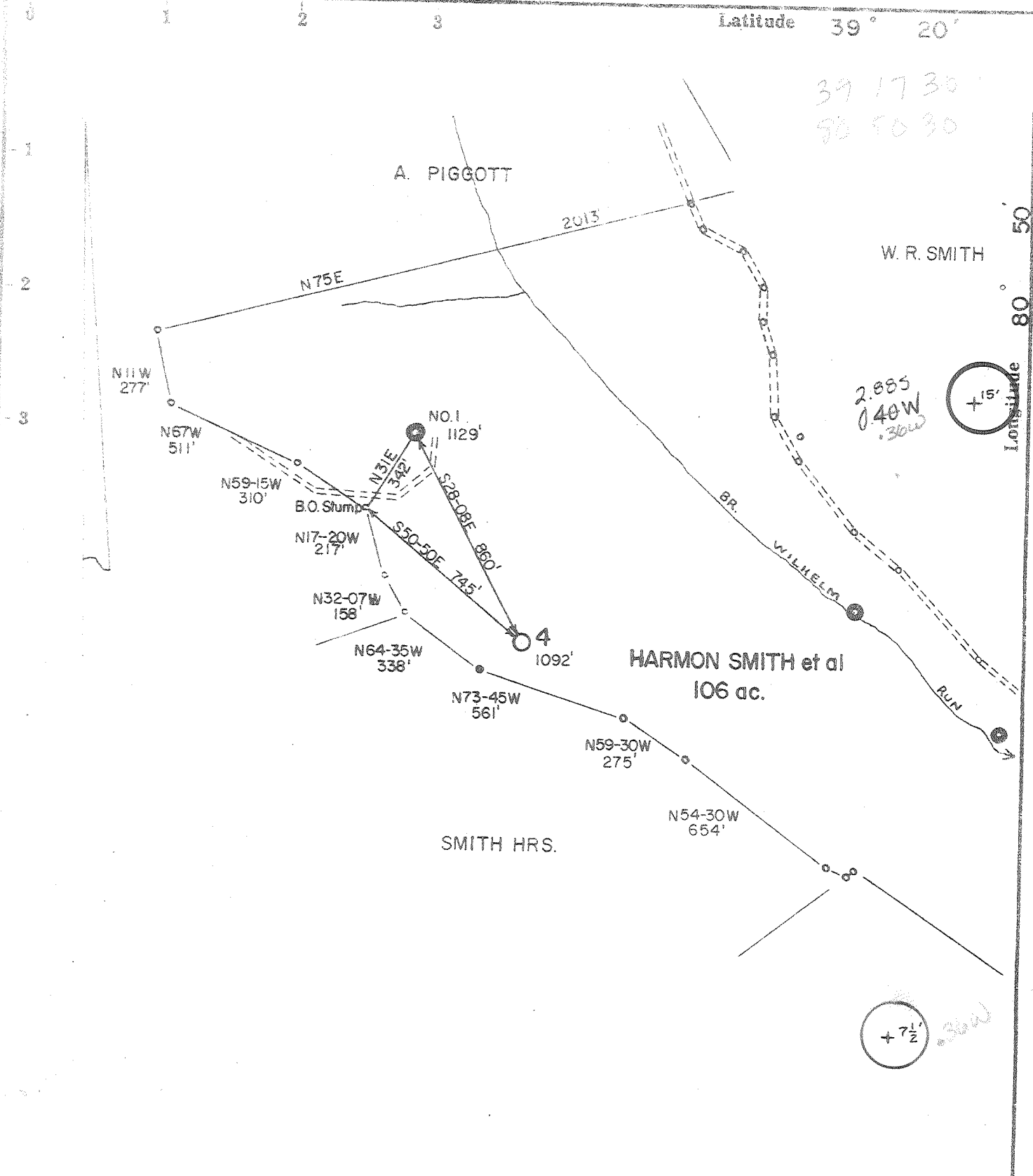


Latitude 39° 20'

39 17 30  
98 50 30



- Fracture....
- Redrill....
- New Location.  X
- Drill Deeper.....
- Abandonment.....

Source of Elevation SMITH NO. 1 WELL 1129'  
 I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.  
 Minimum accuracy, one part in 200'

Company SPENCER-JACKSON GAS CO.  
 Address Box 351 Clarksburg, W. Va. 26301  
 Farm HARMON SMITH et al  
 Tract \_\_\_\_\_ Acres 106 Lease No. \_\_\_\_\_  
 Well (Farm) No. 4 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1092'  
 Quadrangle W. UNION SE 4 1 SC  
 County DODDRIDGE District CENTRAL  
 Engineer [Signature]  
 Engineer's Registration No. LLS. 105  
 File No. 232/84 Drawing No. \_\_\_\_\_  
 Date 6-7-80 Scale 1"=500'

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

**WELL LOCATION MAP**  
 FILE NO. 017-2817

Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

2200 INJUN SEP 16 1980



RECEIVED

MAY 12 1982

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

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

Quadrangle West Union SE4

Permit No. 47-017-2817 Ren.

Company George Jackson  
Address P.O. Box 1698 Clarksburg, W.Va.  
Farm Harmon E. Smith et al Acres 106  
Location (waters) Wilhelm Run  
Well No. Four 4 Elev. 1092  
District Central County Doddridge  
The surface of tract is owned in fee by \_\_\_\_\_  
Mrs. Earnest Cottrill  
Address West Union, W.Va. 26456  
Mineral rights are owned by Harmon E. Smith et al  
Address West Union, W.Va. 26456  
Drilling Commenced 12-2-81  
Drilling Completed 12-6-81  
Initial open flow None cu. ft. None bbls.  
Final production 20,000 cu. ft. per day 5 (bbls)  
Well open 48 hrs before test 465 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"	20 Ft	20 Ft	
9 5/8			
8 5/8	288 Ft	288 Ft.	
7			
5 1/2			
4 1/2	2245 Ft	2245 Ft.	
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

800- BRL. Water, Sand, Acid & Chemicals

Coal was encountered at NONE Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water 110 Feet \_\_\_\_\_ Salt Water 729 Feet \_\_\_\_\_  
Producing Sand Big Injun Depth 2160-2235

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Rock			0	20		
Shale			20	70		
Red Rock			70	85		
Shale			85	105		
Sand			105	115	Water 110- Ft	
Shale			115	150		
Sand			150	268		
Red Rock			268	340		
Sand			340	400		
Red Rock			400	480		
Sand			480	500		
Red Rock			500	525		
Sand			525	545		
Red Rock & Shale			545	687		
Sand			687	852	Water 729 Ft.	
Shale			852	895		
Sand			895	950		
Shale			950	1270		
Sand			1270	1306		
Shale			1306	1460		
Sand			1460	1570		
Shale			1570	1595		
Sand			1595	1630		
Shale			1630	1670		

(over)

\* Indicates Electric Log tops in the remarks section.

MAY 17 1982

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand			1670	1747		
Shale			1747	1800		
Sand			1800	1847		
Shale			1847	2062		
Lime			2062	2160		
Sand	<i>BZ</i>		2160	2235		
Shale			2235	2355		

Date May 10, 19 82

APPROVED George Jackson Owner

By *George Jackson* (Title)

*George Jackson*



RECEIVED

MAR 26 1981

Renewal

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

BLANKET BOND  
#420324

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE March 24, 1981

Surface Owner Harmon H. Smith, et al Company George Jackson

Address Freeman Avenue, West Union, W. Va. Address P.O. Box 1698, Clarksburg, W. Va.

Mineral Owner Same Farm Harmon Smith, et al Acres 106

Address Same Location (waters) Wilhelm Run

Coal Owner Same Well No. Four (4) Elevation 1092'

Address Same District Central County Doddridge

Coal Operator Same Quadrangle West Union SE 4<sup>1</sup>

Address Same

PERMIT MUST BE POSTED AT THE WELL SITE

provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling renewed. This permit shall expire if operations have not commenced by 12-6-81.

INSPECTOR  
TO BE NOTIFIED Paul Garrett

ADDRESS 321 Beech Street, Clarksburg, W. Va.

PHONE 622-3871

*[Signature]*  
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated March 2 1964 by Harmon H. Smith, et al made to George Jackson & Hugh Spencer and recorded on the 26th day of May 1964, in \_\_\_\_\_ County, Book 64 Page 61

\_\_\_\_\_ 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 SAME 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

Very truly yours,

(Sign Name) \_\_\_\_\_

Well Operator  
George Jackson  
P.O. Box 1698

Address  
of  
Well Operator

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.

47-017-2817 - Ren. 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 High Spencer \_\_\_\_\_ NAME George Jackson \_\_\_\_\_  
 ADDRESS West Union, W.Va. 26456 \_\_\_\_\_ ADDRESS P.O. Box 1698, Clarksburg, W.Va. \_\_\_\_\_  
 TELEPHONE 873-1602 \_\_\_\_\_ TELEPHONE 624-6861 \_\_\_\_\_  
 ESTIMATED DEPTH OF COMPLETED WELL: 2,200 \_\_\_\_\_ ROTARY  CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: 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	200ft	200ft. Cemented	
7			
5 1/2			
4 1/2	2,200ft.		
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 50 FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA? \_\_\_\_\_ 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 our name 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

AUG 20 1980

BLANKET BOND  
#420324

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner Harmon H. Smith, et al  
Address Freeman Avenue, West Union, W. Va.  
Mineral Owner Same  
Address Same  
Coal Owner Same  
Address Same  
Coal Operator Same  
Address Same

DATE August 18, 1980  
Company George Jackson  
Address P.O. Box 1698, Clarksburg, W. Va.  
Farm Harmon Smith, et al Acres 106  
Location (waters) Wilhelm Run  
Well No. Four (4) Elevation 1092'  
District Central County Doddridge  
Quadrangle West Union SE 4<sup>1</sup>

PERMIT MUST BE POSTED AT THE WELL SITE

provisions being in accordance with Chapter 22,  
the W. Va. Code, the location is hereby approved  
drilling. This permit shall expire if  
operations have not commenced by 4-25-81.

INSPECTOR  
TO BE NOTIFIED Paul Garrett  
ADDRESS 321 Beech St., Clarksburg, W. Va.  
PHONE 622-3871

*Paul Garrett*  
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 March 2 19 64 by Harmon H. Smith,  
et al made to George Jackson & Hugh Spencer and recorded on the 26th day of May  
19 64, in 64 County, Book 61 Page \_\_\_\_\_

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 SAME 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) *George Jackson*  
Well Operator  
George Jackson  
P.O. Box 1698  
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

47-017-2817

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 Hugh Spencer \_\_\_\_\_ NAME George Jackson \_\_\_\_\_  
 ADDRESS West Union, W. Va. 26456 \_\_\_\_\_ ADDRESS P.O. Box 1698, Clarksburg, W. Va. \_\_\_\_\_  
 TELEPHONE 873-1602 \_\_\_\_\_ TELEPHONE 624-6861 \_\_\_\_\_  
 ESTIMATED DEPTH OF COMPLETED WELL: 2,200 \_\_\_\_\_ ROTARY  \_\_\_\_\_ CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: 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	<b>200ft</b>	<b>200 ft. cemented</b>	
7			
5 1/2			
4 1/2	<b>2,200ft.</b>		
3			Perf. Top
2			Perf. Bottom
Lines			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 50 FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA? \_\_\_\_\_ BY WHOM? \_\_\_\_\_

TO DRILL:

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OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

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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