

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief, and that it complies with the requirements of paragraph 3 of the act of the West Virginia Legislature relating to oil and gas sections of the land.

Fracture 4/29/77  
 New Location   
 Drill Deeper   
 Abandonment

Elev. ref. B.M. at mouth of Buckeye - 890'  
 Error in Closure: Less than 1' in 200'

Company	<i>Virgil E. Stanley, Operator</i>
Address	<i>216 N. 1st St. Huntington, W.V. 25701</i>
Farm	<i>Meek Heirs</i>
Tract	<i>Acres 103</i>
Lease No.	
Well (Farm) No.	<i>One</i>
Serial No.	
Elevation (Spirit Level)	<i>947</i>
Quadrangle	<i>Vadis NC</i>
County	<i>Doddridge</i>
District	<i>Greenbrier</i>
Engineer	<i>Walter J. ...</i>
Engineer's Registration No.	<i>1227</i>
File No.	<i>77A-12</i>
Drawing No.	
Date	<i>Feb. 5</i>
Scale	<i>1" = 300' = 495</i>

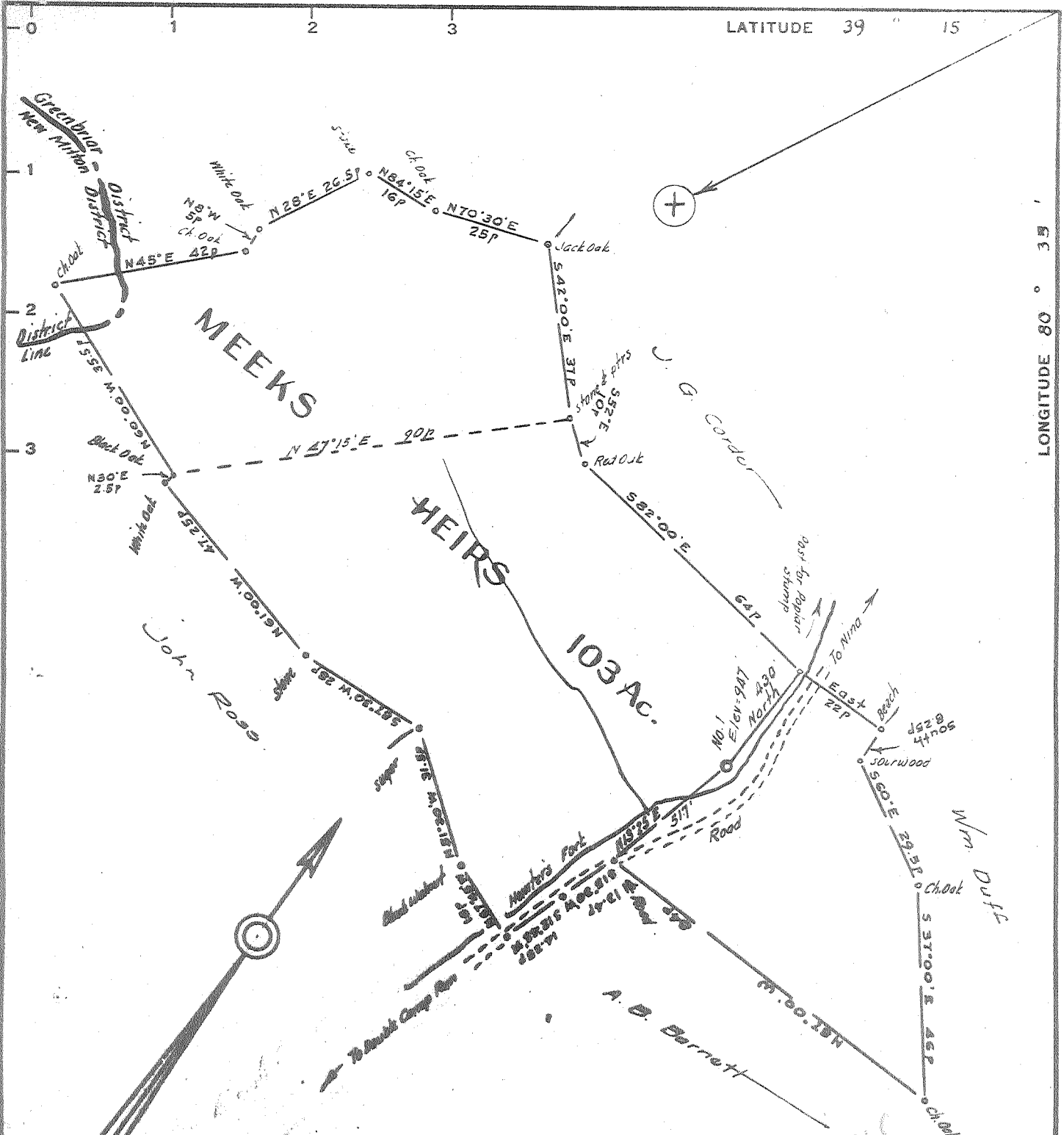
STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

WELL LOCATION MAP  
 FILE NO. *DOD-1436-FRAC*

+ 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.

47-017 MAY 16 1977



I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all of the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

*Matthew J. ...*  
 R. P. E. No. 1227

1.385  
 2.770

New Location  
 Drill Casing  
 Abandoned

Elev. ref. B.M. at mouth of Buckeye - 890  
 Error in Closure: Less than 1' in 200'

COMPANY LITTLE SWISS OIL AND GAS CO.  
 OFFICE 316 Lee Bldg. Huntington, W. Va.  
 TRACT MEEKS HEIRS  
 TRACT Area 103 Lease No. \_\_\_\_\_  
 Well (Plan) No. 002 Serial No. \_\_\_\_\_  
 Elevation (Ript Level) 847  
 Quadrangle Nadia NC  
 County Doddridge District Greenbrier  
 Engineer Matthew J. ...  
 Engineer's Registration No. 1227  
 File No. 77A-12 Drawing No. \_\_\_\_\_  
 Date Feb 3, 1967 Scale 1" = 300' = 495

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
  
**WELL LOCATION MAP**  
 FILE NO. DOD-1436  
  
 + 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.

6-0-99

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

OCT 8 - 1981

Oil and Gas Division

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

WELL RECORD

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

Quadrangle VADIS  
Permit No. DOD-1436-FRAC.

Company Virgil E. Stanley, Operator  
Address 214 North Boulevard West  
Jacob Meek Heirs 25701  
Farm Jacob Meek Heirs West Virginia Acres 65  
Location (waters) Hunters Fork  
Well No. One (1) Elev. 947  
District Greenbrier County Doddridge  
The surface of tract is owned in fee by Jacob Meek Heirs  
Address Salem, West Va.  
Mineral rights are owned by Same  
Address \_\_\_\_\_  
Drilling Commenced \_\_\_\_\_  
Drilling Completed \_\_\_\_\_  
Initial open flow \_\_\_\_\_ cu. ft. \_\_\_\_\_ bbls.  
Final production 30MCF cu. ft. per day 24 hours bbls.  
Well open 250 PSI hrs. before test \_\_\_\_\_ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16 16"	21'	21'	already in well
Cond. 13-10" 14"	40'	40'	already in well
<del>9 5/8</del> 10"	263'	263'	already in well
8 5/8			
7			
5 1/2			
4 1/2	2083'	2083'	
3			
2			
Liners Used			

Well treatment details: 10/25/77  
250 lb. WG-12, 25 Gal. 15-N, 1,000 Gal Hydrochloric Acid,  
1 Gal. Inhibitor, 280 Sacks 20/40 Bulk Frac Sand  
Attach copy of cementing record. 30MCF  
2,083' 4 1/2" Casing  
10/18/77

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water 20 feet \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Producing Sand Big Injun Salt Water 1346 feet \_\_\_\_\_ Feet  
Depth 1991'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Bottom of Well caved in - Drilled out from 1367' to 2083'						
Shale			1367	1455		
Sand			1455	1510		
Slate			1510	1525		
Sand			1525	1532		
Shale			1532	1560		
Slate			1560	1570		
Shale			1570	1620		
Sand			1620	1680		
Shale			1680	1723		
Sand			1723	1733		
Shale			1733	1756		
Slate			1756	1818		
Sand			1818	1828		
Sandy Shale			1828	1870		
Little Lime			1870	1890		
Shale			1890	1905		
Big Lime			1905	1968		
Sand			1968	1979		(Original Production, 1967)
Sandy Shale			1979	1991		
Injun Sand			1991	2021		
Sand			2021	2083		(New Production, 1977)
	T/D		2083			

Helen V. Stanley  
Helen V. Stanley

OCT 22 1981



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Quadrangle Vadis

WELL RECORD

Oil or Gas Well Combination  
(KIND)

Permit No. DOD-1436

Company Joseph H. Hager & Virgil E. Stanley  
DBA Little Swiss Oil & Gas Company  
Address P.O. Box 1834, Huntington, W. Va. 25719  
Farm Jacob Meek Heirs Acres 65  
Location (waters) Hunters Fork  
Well No. One (1) Elev. 947  
District Greenbrier County Doddridge  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by Jacob Meek Heirs  
Address Salem, W. Va.  
Drilling commenced 3-3-67  
Drilling completed 4-15-67  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow 14 10ths Water in 4 Inch  
\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
Volume 685 MCF Natural \_\_\_\_\_ Cu. Ft.  
Rock Pressure 680 lbs. 12 hrs.  
Oil 38 barrel - 1 hour \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16	21'	21'	Kind of Packer <u>Pharmco</u>
13 1/4"	40'	40'	
10	263'	263'	Hook Wall <u>8"x2"</u> Size of
8 1/4" 8-5/8"	1366'	1366'	
6 1/4"			Depth set <u>1850'</u>
5 3/16"			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_

COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

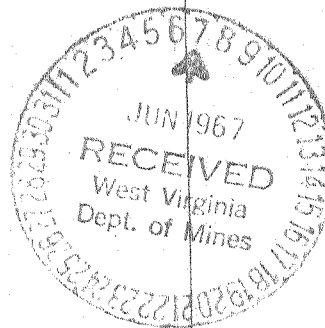
WELL FRACTURED \_\_\_\_\_

RESULT AFTER TREATMENT \_\_\_\_\_

ROCK PRESSURE AFTER TREATMENT \_\_\_\_\_

Fresh Water 20' Feet Salt Water 1346' Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Top Soil		S	0	10			
Shale	Blue	S	10	30	Water	20'	
Rock	Red	S	30	75			
Sand	White	S	75	100	Water	79'	
Sandy Shale	Blue	S	100	142			
Rock	Red	S	142	152			
Shale	Blue	S	152	178			
Sand	White	H	178	202			
Shale	Blue	S	202	225			
Sand	Gray	H	225	258			
Shale	Blue	S	258	300			
Rock	Red	S	300	410			
Shale	Blue	S	410	455	Water	455'	
Sand	White	S	455	480			
Shale	Blue	S	480	545			
Sand	Gray	H	545	560			
Coal	X	S	560	562			
Slate	Gray	S	562	605			
Sandy Shale	Blue	S	605	615			
Sand	Gray	H	615	640			
Shale	Gray	S	640	665			
Rock	Red	S	665	794			
Shale	Gray	S	794	875			
Shale	Blue	S	875	953			
Rock	Red	S	953	965			
Shale	Blue	S	965	992			
Rock	Red	S	992	1012			
Sandy Shale	Blue	S	1012	1050			
Shale	Gray	S	1050	1122			
Sand	White	H	1122	1148			



over

(over)

JUN 20 1967

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Shale	Blue	S	1148	1202			
Rock	Red	S	1202	1216			
Slate	Gray	S	1216	1303			
Sand	Gray	H	1303	1364	Water	1346'	
Shale	Blue	S	1364	1455			
Sand	Gray	H	1455	1510			
Slate	Gray	S	1510	1525			
Sand	White	H	1525	1532			
Shale	Gray	H	1532	1560			
Slate	Gray	S	1560	1570			
Shale	Gray	H	1570	1620			
Sand	White	H	1620	1680			
Shale	Blue	S	1680	1723			
Sand	Gray	H	1723	1733			
Shale	Gray	H	1733	1756			
Slate	Black	S	1756	1818			
Sand	Gray	H	1818	1828			
Sandy Shale	Blue	H	1828	1870			
Little Lime		H	1870	1890			
Shale	Gray	S	1890	1905			
Big Lime		H	1905	1968			
Sand	Gray	H	1968	1979			
Sandy Shale	Gray	S	1979	1991	Gas & Oil	1980'	
Injun Sand		H	1991	2021			
TOTAL DEPTH				2021			

Date June 6, 1967

APPROVED Joseph H. Hayes Owner  
 By \_\_\_\_\_ Partner  
 (Title)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED

APR 28 1977

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE April 27, 1977

Surface Owner Jacob Mack Hairs

Company VIRGIL E. STANLEY, OPERATOR

Address Salon, West Virginia

Address 214 North Boulevard West

Mineral Owner Same

Huntington, West Virginia 25701

Address \_\_\_\_\_

Farm Jacob Mack Hairs Acres 05

Coal Owner \_\_\_\_\_

Location (waters) Hunters Fork

Address \_\_\_\_\_

Well No. No. One (1) Elevation 967

Coal Operator \_\_\_\_\_

District Greenbrier County Doddridge

Address \_\_\_\_\_

Quadrangle Vadis

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 8-28-77.

INSPECTOR  
TO BE NOTIFIED Paul Garrett

ADDRESS 321 Beech St., Clarksburg, WV.

PHONE 622-3871

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 \_\_\_\_\_ 19\_\_\_\_ by \_\_\_\_\_ made to \_\_\_\_\_ and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in \_\_\_\_\_ County, Book \_\_\_\_\_ Page \_\_\_\_\_

\_\_\_\_\_  
NEW WELL \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL ~~XXXX~~ FRACTURE OR STIMULATE  
~~XXXX~~ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969. completed 4/15/67

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

Very truly yours,

(Sign Name) Virgil E. Stanley  
Virgil E. Stanley, Operator

Address  
of  
Well Operator

214 North Boulevard West  
Street  
Huntington, West Virginia 25701  
City or Town

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.

BOND FRAC

DOD-1436-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."

Original Permit No. DOD-1436

Signed by Virgil E. Stanley

47 017

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

PROPOSED WORK ORDER TO \_\_\_\_\_ DRILL \_\_\_\_\_ DEEPEN ~~XXXX~~ FRACTURE-STIMULATE  
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:  
 NAME C. H. C. Drilling, Inc. NAME Virgil E. Stanley, Operator  
 ADDRESS 212 East Pierpoint Street ADDRESS 214 North Blvd. West, Huntington, W. Va.  
Harrisville, West Virginia TELEPHONE (304) 525-0187  
 ESTIMATED DEPTH OF COMPLETED WELL: 2021' ROTARY \_\_\_\_\_ CABLE TOOLS XX  
 PROPOSED GEOLOGICAL FORMATION: Big Injua  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB. ~~XXX~~ 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 <u>16"</u>	<u>21'</u>	<u>21'</u>	<u>Already in well</u>
<del>13 and</del> <u>14"</u>	<u>40'</u>	<u>40'</u>	<u>" " "</u>
<del>9 and 5/8</del> <u>10"</u>	<u>263'</u>	<u>263'</u>	<u>" " "</u>
8 - 5/8	<u>1366'</u>		<u>To be removed</u>
7			
5 1/2			
4 1/2	<u>2021'</u>	<u>2021'</u>	<u>To be installed at approx 500'</u>
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 20' FEET SALT WATER 2266' FEET

APPROXIMATE COAL DEPTHS \_\_\_\_\_

IS COAL BEING MINED IN THE AREA? No BY WHOM? \_\_\_\_\_

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

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

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the \_\_\_\_\_ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

\_\_\_\_\_  
For Coal Company

\_\_\_\_\_  
Official Title