

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

Source of Elevation _____

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 _____

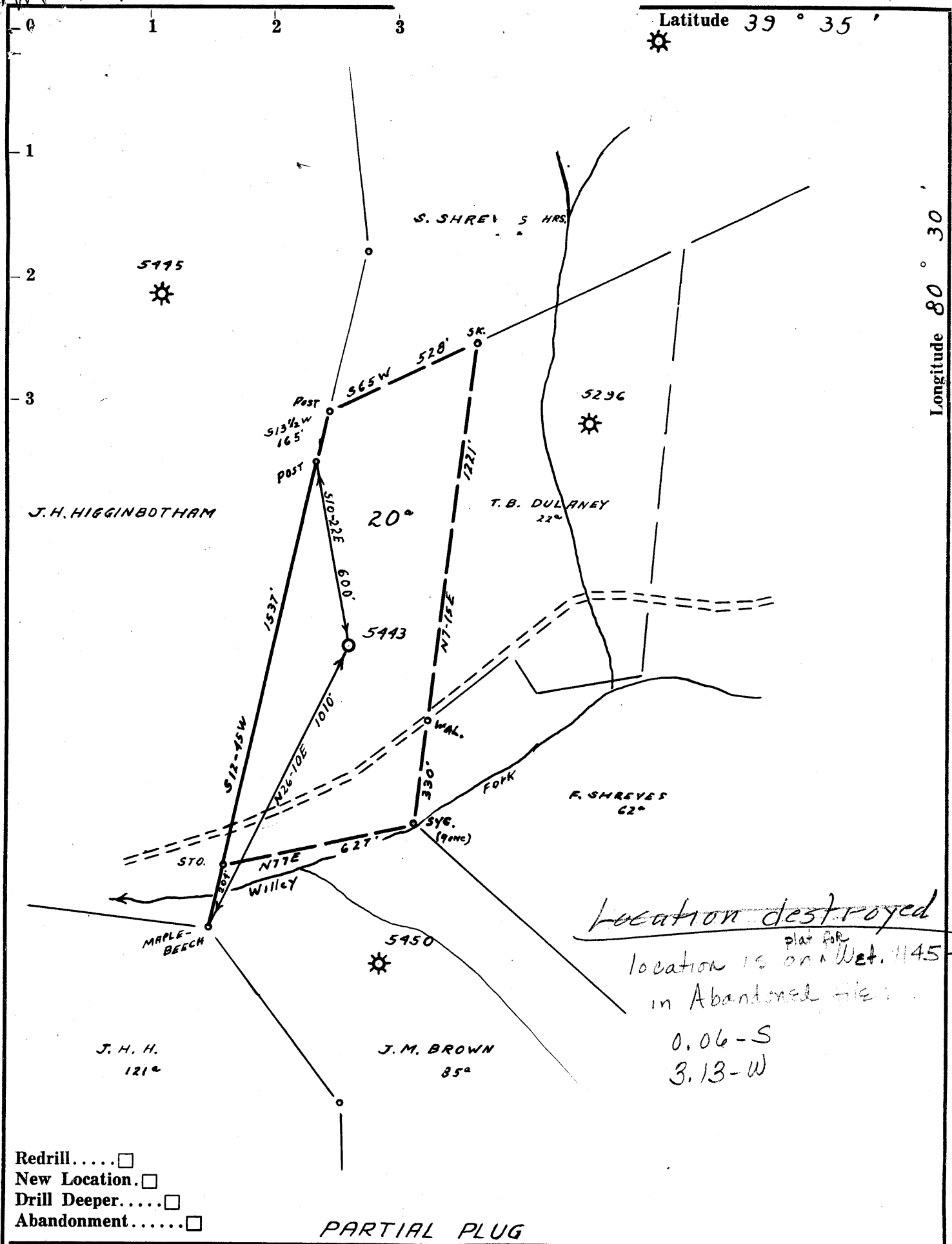
Company EQUITABLE GAS COMPANY
 Address 420 BLVD. OF THE ALLIES, PGH. PA.
 Farm ADDA M. SOLES
 Tract _____ Acres 20 Lease No. 25425
 Well (Farm) No. 1 Serial No. 5443
 Elevation (Spirit Level) 1067' SE
 Quadrangle LITTLETON (15') BIG RUN (7 1/2')
 County WETZEL District GRANT
 Engineer James B. Tillman
 Engineer's Registration No. 2886
 File No. _____ Drawing No. _____
 Date MAR. 23, 1978 Scale 1" = 400'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. **WET-534-REC**

+ Denotes location of well on United States Topographic Maps, scale 1 to $\frac{62,500}{24,000}$ latitude and longitude lines being represented by border lines as shown.

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

47-103 APR 13 1978



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

PARTIAL PLUG

Company EQUITABLE GAS CO. W.VA. DIV.
 Address PITTSBURGH 13, PA.
 Farm ADDA M. SOLE
 Tract _____ Acres 20 Lease No. 25425
 Well (Farm) No. 1 Serial No. 5443
 Elevation (Spirit Level) 1067' VA.
 Quadrangle LITTLETON SE 2³
 County WETZEL District GRANT
 Engineer Jarrett Jeffries
 Engineer's Registration No. 11084
 File No. 209/70 Drawing No. _____
 Date 9-14-62 Scale 1" = 400'

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

WELL LOCATION MAP

FILE NO. WET-1145-PP
WET-534-RECONDITION

+ 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.

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JUN 14 1979

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Big Run 7½
Permit No Wet. -534 - Rec.

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

Company <u>Equitable Gas Co.</u>	Casing and Tubing		Left in Well	Cement fill up Cu. ft. (Sks)
Address <u>420 Blvd. of the Allies, Pgh, Pa. 15219</u>				
Farm <u>E. Taylor</u> Acres <u>20</u>	Size			
Location (waters) <u>Willey Fork</u>	<u>20-16</u>			
Well No. <u>5443</u> Elev. <u>1067</u>	Cond.			
District <u>Littleton</u> County <u>Wetzel</u>	<u>13-10"</u>			
The surface of tract is owned in fee by <u>Francis Shreve, Agent</u>	<u>9 5/8</u>			
Address <u>7 E. Lincoln St. Buckhannon, W. Va. 26201</u>	<u>8 5/8</u>			
Mineral rights are owned by <u>Ray E. Shreve, Agent</u>	<u>6-5/8</u>	<u>4/19</u>	<u>2009'</u>	<u>4½ cemented To surface w/ 250 sks. 50-50 pozmix</u>
Address <u>995 Twp. Rd. 150, Nova, Ohio 44859</u>	<u>5 1/2</u>			
Drilling Commenced <u>5/2/79</u>	<u>4 1/2</u>	<u>4/79</u>	<u>2026'</u>	
Drilling Completed <u>6/9/79</u>	<u>3</u>			
Initial open flow <u>N/A</u> cu. ft. <u>N/A</u> bbls.	<u>2</u>			
Final production <u>N/A</u> cu. ft. per day <u>N/A</u> bbls.	Liners Used			
Well open <u>N/A</u> hrs. before test <u>N/A</u> RP.				

Attach copy of cementing record.

Well completed open hole. Bridge plug set at 2028 when well was completed bridge plug knocked to bottom. Well plugged back with 6 sks of portland cement to 2066'.

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet
Storage Sand Big Injun Depth 2028 - 2066

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Murphy Sand			926	965		
Big Dunkard Sand			1258	1284		
Gas Sand			1388	1458		
Salt Sand			1504	1612		
Salt Sand			1663	1746		
Salt Sand			1799	1849		
Maxton Sand			1936	1954		
Big Lime			1966	2026		
<u>Big Injun</u>			2028	<u>2220</u>		
				2066		
						Storage Gas 2028 to 2060
						Plug Back TD

STATE OF \ NIA
DEPARTMEN MINES
OIL AND GA VISION

Quadrangle Littleton SE 2.3

Permit No. WET-1175-EP WET-534 Recondition

WELL RECORD
PARTIAL PLUG AND RECONDITION

Oil or Gas Well Gas Storage
(KIND)

Company <u>Equitable Gas Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>420 Blvd. of the Allies, Pgh. 19, Pa.</u>	Size			
Farm <u>A. M. Sole</u> Acres <u>20</u>	16			Kind of Packer
Location (waters) <u>Littleton SE 2.3</u>	13			<u>Combination</u>
Well No. <u>5113</u> Elev. <u>1067</u>	10			Size of <u>6-5/8" x 3"</u>
District <u>Grant</u> County <u>Wetzel</u>	8 1/4			Depth set <u>2018</u>
The surface of tract is owned in fee by <u>Francis Shreve, Agent</u>	6 3/8			Perf. top <u>2023</u>
<u>7 East Lincoln St. Address Buckhannon, W. Va.</u>	5 3/16			Perf. bottom <u>2090</u>
Mineral rights are owned by <u>Francis Shreve, Agent</u>	3			Perf. top
<u>7 East Lincoln St. Address Buckhannon, W. Va.</u>	2			Perf. bottom
Repair Drilling commenced <u>5-17-62</u>	Liners Used			
Repair Drilling completed <u>10-19-62</u>				
Date Shot <u>--</u> From <u>--</u> To <u>--</u>				
With <u>--</u>				
Open Flow /10ths Water in <u>--</u> Inch				
/10ths Merc. in <u>--</u> Inch				
Volume <u>--</u> Cu. Ft.				
Rock Pressure <u>--</u> lbs. <u>--</u> hrs.				
Oil <u>--</u> bbls., 1st 24 hrs.				
WELL ACIDIZED <u>--</u>				
WELL FRACTURED <u>--</u>				

CASING CEMENTED SIZE No. Ft. Date

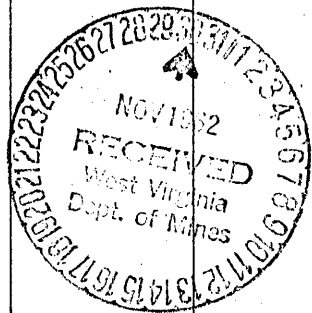
COAL WAS ENCOUNTERED AT 511 FEET 12 INCHES
692 FEET 96 INCHES 785 FEET 84 INCHES
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT --

ROCK PRESSURE AFTER TREATMENT --

Fresh Water Feet Salt Water Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
✓ Native Coal			511	512			Driller
✓ Mapletown Coal			692	700			Driller
✓ Pittsburgh Coal			785	792			Driller
✓ Murphy Sand			925	965			
✓ Big Dunkard Sand			1255	1275			
✓ Gas Sand			1385	1455			
✓ Salt Sand			1504	1610		1965	
✓ Salt Sand			1660	1743		1067	
✓ Salt Sand			1795	1845		899	
✓ Maxton Sand			1935	1950			
✓ Big Lime			1965	2017			
Big Injun Sand			2025	2085			
Big Injun Sand			2092	2137			
✓ Big Injun Sand			2150	2157			
Big Injun Sand			2167	2173			
Big Injun Sand			2180	2220			
✓ Gordon Stray Sand			2800	2850			
Cleaned Out to				2880			
Cemented back			2091	2880			
Iron			2090	2091			
Completed Total Depth				2090			



NOTE: Log shown from Gamma Ray Survey except where noted.
Well located in Mobley Gas Storage Pool Area.
Pulled 2,388' of old 5-3/16" casing. 436' of old 5-3/16" casing left in from 2,388' to 2,824'.
Aqualgel around 3" from 2,018' to surface.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE March 30, 1978

Surface Owner Francis Shreve, Agent ²⁶²⁰¹ Company Equitable Gas Company
 Address 7 E. Lincoln St., Buckhannon, W. Va. Address Pittsburgh, Pa. 15219
 Mineral Owner Ray E. Shreve, Agent Farm Adda M. Soles Acres 20
 Address 995 Twp. Rd. 150, Nova, Ohio 44859 Location (waters) Willey Fork
 Coal Owner Consolidation Coal Co. Well No. 5443 Elevation 1067
 Address Moundsville Div., P.O. Drawer L, District Grant County Wetzel
Moundsville, W. Va. 26041 Coal Operator _____
 Address _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for reconditioning. This permit shall expire if operations have not commenced by 8-11-78.

INSPECTOR
 TO BE NOTIFIED Phillip Lee Tracy
 ADDRESS P.O. Box 173 - Dodd St.
Middlebourne, W. Va. 26149
 PHONE 758-4573


 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 Sept. 1 1961 by Adda M. Soles made to Equitable Gas Co. and recorded on the 7th day of Oct. 1961, in Wetzel County, Book 44 A Page 493 Recondition
 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, S. M. Linger
 (Sign Name) Equitable Gas Company
 Well Operator
420 Blvd. of the Allies
 Street
Pittsburgh,
 City or Town
Pa. 15219
 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

Wet. 534-REC. 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 S. M. Linger

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

PROPOSED WORK ORDER TO _____ DRILL XX ~~DEEPEN~~ RECONDITION ~~XXXXXXXX~~ FRACTURE-STIMULATE
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Equitable Gas Co. Tools NAME H. E. Gardner, Jr.
 ADDRESS _____ ADDRESS Box 1550, Clarksburg, W. Va.
 TELEPHONE _____ TELEPHONE 624-6576
 ESTIMATED DEPTH OF COMPLETED WELL: 2090 ROTARY _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Big Injun
 TYPE OF WELL: OIL _____ GAS _____ COMB. _____ STORAGE XX 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			
<u>XX 6-5/8</u>	<u>2009</u>	<u>2009</u>	
5 1/2			
4 1/2		Run <u>2028</u>	
3	<u>2090</u>	Pull <u>2090</u>	Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 1600 1722 FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS 541-542, 692-700, 785-792
 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 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