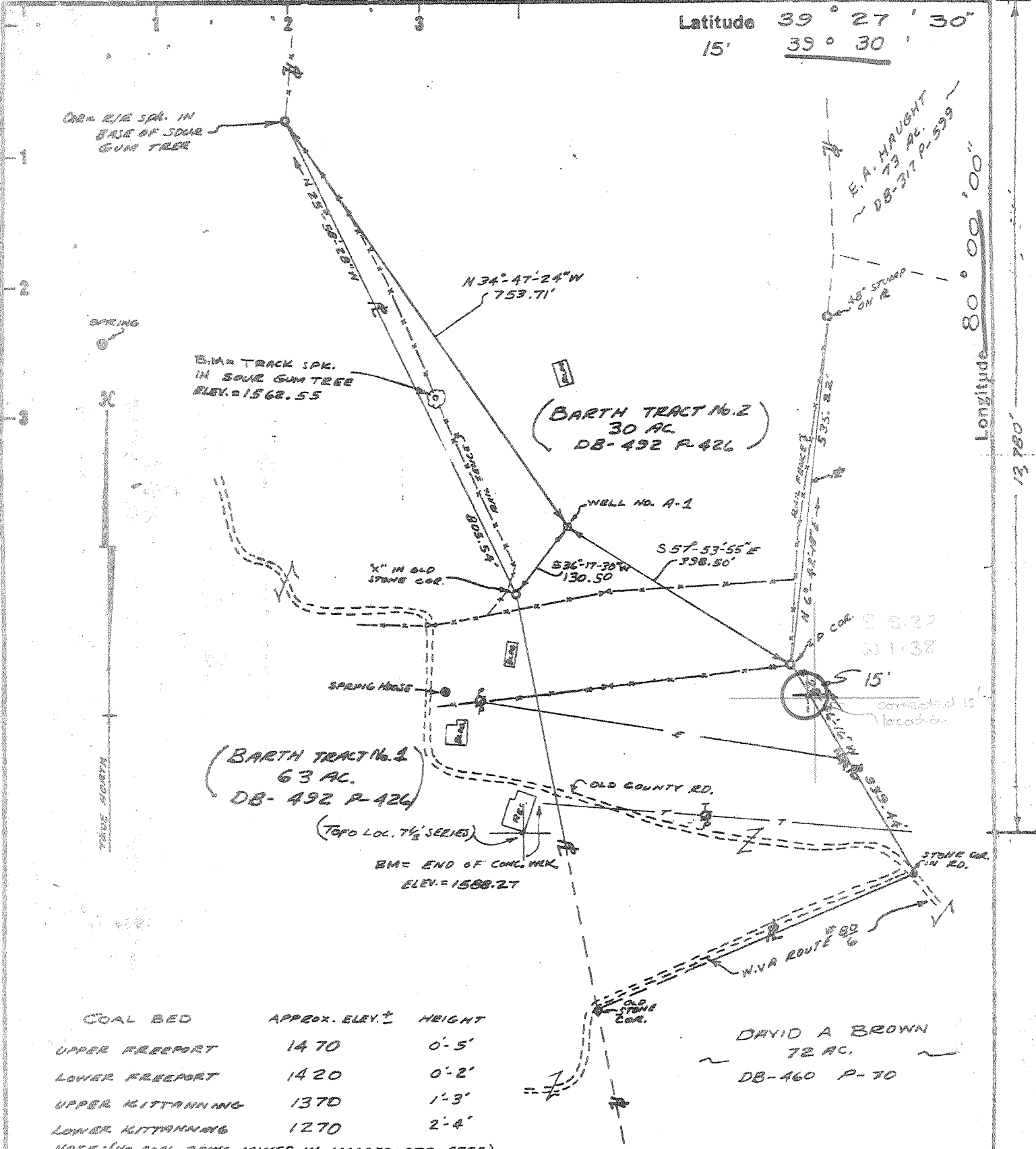


Latitude 39° 27' 30"
15' 39° 30'



New Location
 Drill Deeper
 Abandonment
 RECONDITION, 9/13/78

Minimum Error of Closure 1/9500
 Source of Elevation (1958) B.M. 37 SKS 1956 AD +1739'
 FAIRMONT EAST WVA QUADRANGLE
 "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."

Company PHILLIPS PETROLEUM COMPANY
 Address BOX 287, GREAT BEND, KANSAS
 Farm G. PAUL BARTH & MARY E. BARTH (DB-492 P-426)
 Tract No. 2 Acres 30 Lease No. 128853
 Well (Farm) No. BARTH No. A-1 Serial No. _____
 Elevation (Spirit Level) 1541.45' NE
 Quadrangle FAIRMONT EAST WVA
 County MARION District WINFIELD
 Engineer John W. Horne / JOHN W. HORNE
 Engineer's Registration No. WVA: L.L.S #72-JU.
 File No. _____ Drawing No. _____
 Date 10-15-75 Scale 1" = 200'

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

WELL LOCATION MAP
 FILE NO. MAR-321-REC
049

+ 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.

47-049 AUG 18 1978

Deep well 6-6 Runners Ridge (367)

7,190'

Latitude 39° 27' 30"
15' 39° 30'

Longitude 80° 00' 00"

12,760'

Cor = 1/2" spk. in
base of sour
gum tree

B.M. = TRACK SPK.
IN SOUR GUM TREE
ELEV. = 1562.55

(BARTH TRACT No. 2)
30 AC.
DB-492 P-426

E.A. HAUGHT
73 AC.
DB-317 P-599

(BARTH TRACT No. 4)
63 AC.
DB-492 P-426

DAVID A BROWN
72 AC.
DB-460 P-70

COAL BED	APPROX. ELEV. ±	HEIGHT
UPPER FREEPORT	1470	0'-5'
LOWER FREEPORT	1420	0'-2'
UPPER KITTANNING	1370	1'-3'
LOWER KITTANNING	1270	2'-4'

NOTE: (NO COAL BEING MINED IN IMMEDIATE AREA)

Minimum Error of Closure 1/9500
Source of Elevation (1958) B.M. 37 SKS 1956 AD + 1739'

New Location
Drill Deeper
Abandonment

FAIRMONT EAST W.V.A. QUADRANGLE
"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."

Company PHILLIPS PETROLEUM COMPANY
Address BOX 287, GREAT BEND, KANSAS
Farm C. PAUL BARTH & MARY E. BARTH (DB-492 P-426)
Tract No. 2 Acres 30 Lease No. 128853
Well (Farm) No. BARTH No. A-1 Serial No. _____
Elevation (Spirit Level) 1541.45' NE 1555
Quadrangle FAIRMONT EAST W.V.A
County MARION District WINFIELD
Engineer JOHN W. HORNE / JOHN W. HORNE
Engineer's Registration No. W.V.A. L.L.S #72 JV.
File No. _____ Drawing No. _____
Date 10-15-75 Scale 1" = 200'

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON
WELL LOCATION MAP
FILE NO. MAR-321

+ 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.
47-049

Deep Well ~~6-6~~ Deep well

MAY 16 1977



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

RECEIVED
DEC 5 1977
OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD 4

Quadrangle Fairmont East

Permit No. MAR-321

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

Company <u>Phillips Petroleum Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>Box 287, Great Bend, Ks. 67530</u>	Size		Set at:	
Farm <u>C. Paul & Mary E. Barth Acres 30</u>	20-16		RKB	
Location (waters) <u>Monongahela</u>	Cond.			
Well No. <u>Barth "A" #1</u> Elev. <u>1541.45'</u>	13-10"		75'	65 sx - Circ to surf.
District <u>Winfield</u> County <u>Marion</u>	9 5/8		1221'	400 sx
The surface of tract is owned in fee by <u>Paul & Mary Barth</u>	8 5/8			
Address <u>Route #6, Fairmont, West Virginia</u>	7			
Mineral rights are owned by <u>Same as above</u>	5 1/2			
Address _____	4 1/2		7703.34	275 sx
Drilling Commenced <u>June 7, 1977</u>	3			
Drilling Completed <u>July 22, 1977</u>	2 3/8" OD tubing set @ 7645' RKB			
Initial open flow _____ cu. ft. _____ bbls.	Liners Used			
Final production <u>134M</u> cu. ft. per day _____ bbls.				
Well open _____ hrs. before test <u>2200</u> RP.				

Well treatment details:

Attach copy of cementing record.

See reverse side

IP 134 MCF

Coal was encountered at 80'-84' Feet _____ Inches
Fresh water 85' Feet _____ Salt Water AND G Feet _____
Producing Sand Onondaga-Oriskany Depth 7375' 7520 ORISK 7566-7632

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			0'	75'		
Shale & Sand			75'	370'		
Sand & Shale			370'	1043'		
Sand & Shale			1043'	1235'		
Sand & Shale			1235'	1673'		
Sand & Shale			1673'	2489'		
Sand & Shale			2489'	2984'		
Sand & Shale			2984'	3942'		
Sand & Shale			3942'	4382'		
Shale			4382'	5334'		
Shale			5334'	6240'		
Shale			6240'	6887'		
Lime			6887'	7370'		
Lime			7370'	7375'		
Onondaga Lime (light to dark gray)			7375'	7383'		
Onondaga Lime (Chert 7388.6-92.6 (med. gray to black))			7383'	7393'		
Onondaga Lime			7393'	7411'		
Onondaga Lime			7411'	7422'		
Onondaga Lime			7422'	7463'		
Onondaga Lime			7463'	7560'		
Oriskany Sand			7560'	7582'		
Oriskany Sand			7582'	7610'		

7375
1555
5820

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet 4	Bottom Feet	Oil, Gas or Water	* Remarks
Oriskany Sand			7610'	7660'		
Helderberg Lime			7660'	7728'		
Helderberg Lime			7728'	7750'		
Plug Back				7673'		Ran 188 jts. (7703.34') LTM 4½" csg. 2 3/8" OD tubing set @ 7645' RKB
<p><u>7-12-77</u> McCullough Services ran GRC log & cement bond log to 7672'. Logged 7672-6700'. TOC 6950' Perf Oriskany zone 7566-76', 7604-07', 7624-32' - 1 HPF w/Omega Jet 11 GM charges. Unable to break down Oriskany formation.</p>						
<p><u>7-13,14-77</u> McCullough Services reperforated 7566-76', 7604-07', 7624-32' w/11 GM Omega Jets - 1 HPF. Dowell spotted 420 gal 15% HCL. Fraced w/1850 BW, 6800 gal 3% acid (HCL), 30,660# of 80/100 sand, 40,530# 20/40 sand. Cut off sand after 1550 Bbls. All frac water gelled w/WF-60 & 3% acid.</p>						
<p><u>7-15-77</u> Well flow intermittent - S.I.</p>						
<p><u>7-18-77</u> McCullough Services perf w/62 - .38" Omega Jet shots 1 HPF as follows: 7510-20', 7495'-7505', 7472'-82', 7440-58', 7410-16', 7375-83'. After perf 7495-7505 had 1000 psi to surf. Dowell fraced Onondaga Lime w/1835 Bbls gelled wtr & acid. S.I. 4 hrs. - 2900 psi.</p>						
<p><u>7-20-77</u> Flowed well to pit 20 hrs. - flowing by heads F/SBPH to 1 BPH. Slight show of gas.</p>						
<p><u>7-23-77</u> Went on all gas - flowing @ 1100 psi. S.I. Testing casing and tubing pressures.</p>						
<p><u>8-5-77</u> Production rate 134 MCFPD</p>						
<p><u>9-10-77</u> Well is shut-in pending installation of surface equipment and sales line connection.</p>						

Date November 23, 1977

APPROVED Phillips Petroleum Co. Owner

By C. D. Dohrer

C. D. Dohrer (Title)

Area Superintendent

Box 287



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 12-2-78

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED AUG 01 1978

OIL & GAS DIVISION DEPT. OF MINES

Deputy Director - Oil & Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE July 24, 1978

Surface Owner Paul & Mary Barth

Company Phillips Petroleum Co.

Address Route 6, Fairmont, WV

Address P. O. Box 1967 E & P, Houston, TX

Mineral Owner same as above

Farm C. Paul & Mary E. Barth Acres 30

Address

Location (waters) Monongahela

Coal Owner Hillman Coal & Coke Co.

Well No. Barth "A" No. 1 Elevation 1541.45'

Address Grant Bldg, Pittsburgh, PA

District Winfield County Marion

Coal Operator same as above

Quadrangle Fairmont East, West Virginia

Address

Performance Bonds:

Effective July 1, 1971 General Insurance Co. of America #915671 (current)

INSPECTOR TO BE NOTIFIED William Blosser

ADDRESS Colfax, WV

PHONE 363-9105

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 October 9 1975 by C. Paul & Mary E. Barth made to Phillips Petroleum Co. and recorded on the 14th day of October 1975, in Marion County, Book 789 Page 451

NEW WELL DRILL DEEPER REDRILL X 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, Roy A. Hustead for (Sign Name) B. E. Cook Well Operator

P.O. Box 1967 E & P Street Houston City or Town Texas State 77001

*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

"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 Roy A. Hustead

Mar - 321 -REC. PERMIT NUMBER 47-049

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 Known) _____ RESPONSIBLE AGENT:
 NAME N/A _____ NAME Roy A. Hustead _____
 ADDRESS _____ ADDRESS 136 West First St., Westover, WV _____
 TELEPHONE _____ TELEPHONE 304-292-8233 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 8000 _____ ROTARY N/A CABLE TOOLS N/A _____
 PROPOSED GEOLOGICAL FORMATION: Onondaga-Oriskany
 TYPE OF WELL: OIL _____ GAS _____ COMB. _____ STORAGE _____ DISPOSAL X _____
 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		75'	65 sks circulator-surf
9 - 5/8		1221 ft.	400 sks
8 - 5/8			
7			
5 1/2			
4 1/2		7703.34'	275 sks
3			Perf. Top <u>7566 7375</u> <i>RAH</i>
2 3/8" tbg		7645'	Perf. Bottom <u>7576 7437</u> <i>RAH</i>
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS variable FEET -- SALT WATER variable FEET --
 APPROXIMATE COAL DEPTHS upper Freeport 71' lower 121' upper Kittanning 171' lower 271'
 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

RECEIVED
APR 10 1977
OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE April 5, 1977

Surface Owner Paul & Mary Barth
Address Route #6, Fairmont, West Virginia

Company Phillips Petroleum Company
Address P.O. Box 287, Great Bend, KS 67530

Mineral Owner (Same as Above)
Address _____

Farm C. Paul & Mary E. Barth Acres 30
Location (waters) Monongahela

Coal Owner Hillman Coal & Coke Company
Address Grant Bldg., Pittsburgh, Pennsylvania

Well No. Barth "A" #1 Elevation 1541.43'
District Winfield County Marion

Coal Operator (Same as Above)
Address _____

Quadrangle Fairmont East, West Virginia

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 9-2-77

Robert L. [Signature]
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED William Blosser
PH: 363-9105 ADDRESS Colfax, W.Va.

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 October 9 1975 by C. Paul & Mary E. Barth made to Phillips Petroleum Company and recorded on the 14th day of October 1975, in Marion County, Book 789 Page 431

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
GEOLOGICAL LOGS DIRECTLY TO:

West Virginia Geological and Economic Survey
P. O. Box 879
Martinsburg, W. Va. 26505

Very truly yours,

(Sign Name) E.M. Brown for C. De Dohren
Well Operator

Address
of
Well Operator

P.O. BOX 287
Street
GREAT BEND
City or Town
KANSAS 67530
State

"I have read and understand the regulation requirements as set forth in Chapter 24, Article 4, Section 12-b and will carry out the specified requirements."

Signed by _____ 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.

MAR-321 _____ PERMIT NUMBER

BLANKET BOND

47-049

**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 Unknown _____ NAME R. A. Rustad _____
 ADDRESS _____ ADDRESS 1234 Holland Ave., Westover, West VA _____
 TELEPHONE _____ TELEPHONE (304) 292-2277 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 3000' ROTARY _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Canfield-Crislain _____
 TYPE OF WELL: OIL _____ GAS X _____ 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			To Surface
9 - 5/8			To Surface
8 - 5/8			
7			
5 1/2			1000' fill up
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS Variable FEET Lower SALT WATER Variable FEET
 APPROXIMATE COAL DEPTHS Lower FEET Lower FEET
 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