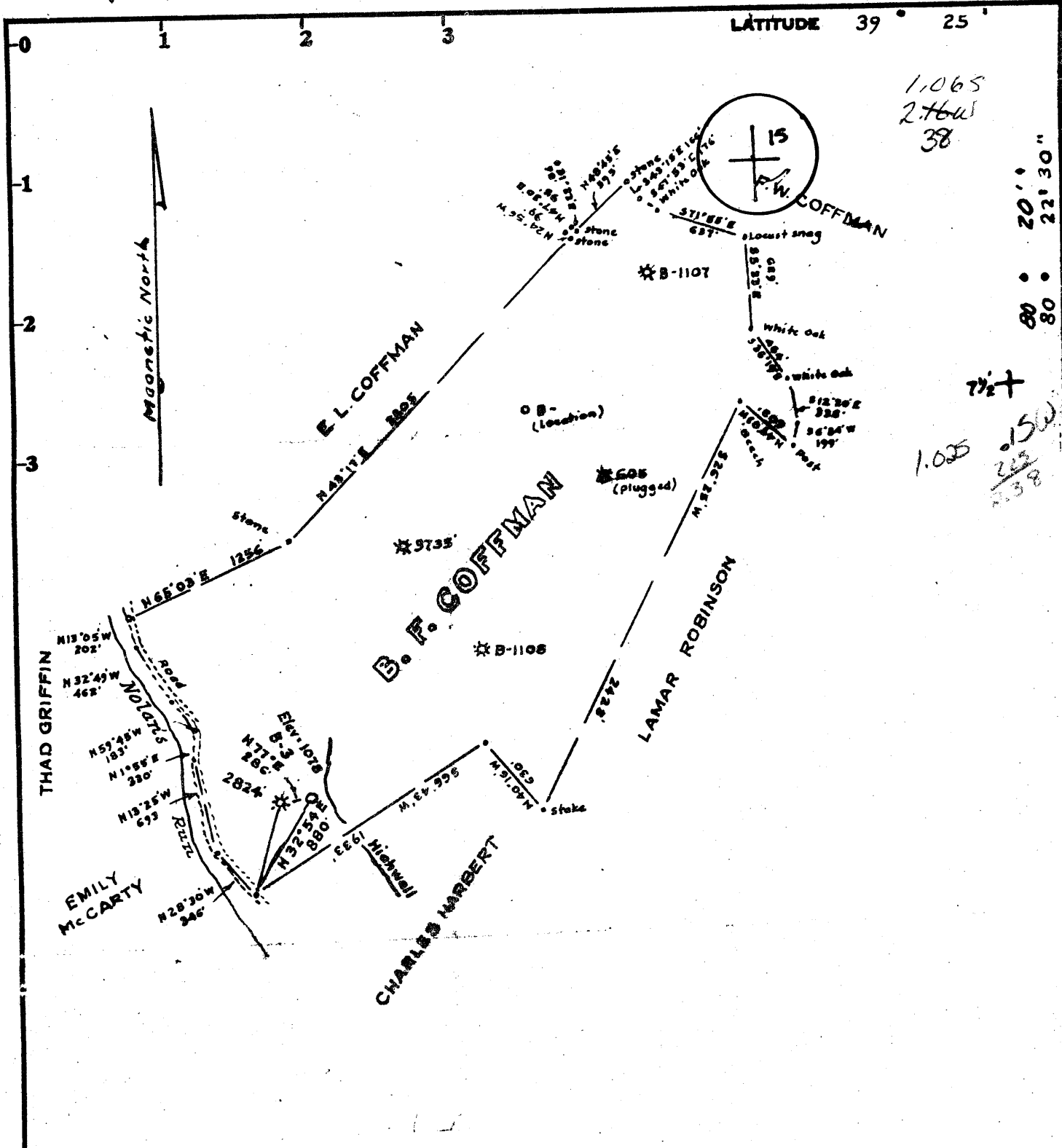


7/13/1979



1.065
2.665
38

20' 30"
80 80

7 1/2 +
1.025
0.15W
2.665
38

Minimum Error of Closure 1 in 2500

Source of Elevation Elev. Well No. 2824 = 1045

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

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.

Signed: W. Harbert
Squares: N S E W

Map No. _____

Company GEORGE JACKSON
 Address P.O. Box 1670, Clarksburg, W. Va.
 Farm B.F. Coffman
 Tract _____ Acres 268 Lease No. _____
 Well (Farm) No. B-3 Serial No. _____
 Elevation (Spirit Level) 1078 1078
 Quadrangle Wallace 7 1/2 CLARKSBURG 15'
 County Harrison District Eagle
 Engineer W. Harbert
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date June 25, 1979 Scale 1" = 1000'

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

WELL LOCATION MAP
FILE NO. 47-033-2155

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

AUG 7 1979

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

WELL OPERATOR'S REPORT //
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Operator's
Well No. B.F. CoffmanB-3
API Well No. 47-033-215
State County Perm:

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___
(If "Gas", Production ___ / Underground storage ___ / Deep ___ / Shallow ___)

LOCATION: Elevation: 1078 Watershed: Nolan's Run
District: Eagle County: Harrison Quadrangle: Shinnston 7 1/2

WELL OPERATOR George Jackson DESIGNATED AGENT _____
Address P.O. Box 1698 Address _____
Clarksburg, W.Va. 26301

PERMITTED WORK: Drill X / Convert ___ / Drill deeper ___ / Redrill ___ / Fracture or stimulate ___
Plug off old formation ___ / Perforate new formation ___
Other physical change in well (specify) _____

PERMIT ISSUED ON July 2, 1979

OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED

Name Paul Garrett
Address 321 Beach Street
Clarksburg, W.Va. 26301

GEOLOGICAL TARGET FORMATION: Balltown Depth 3350 feet

Depth of completed well, 3409 feet Rotary X / Cable Tools ___

Water strata depth: Fresh, 830 feet; salt, ___ feet.

Coal seam depths: 610-615 Is coal being mined in the area? ___

Work was commenced September 17, 1979, and completed September 26, 1979

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	FATHERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor	13			X		28'	28'		Kinds
Fresh water	8 5/8		20#	X		1136'	1136'	233 sks	
Coal									Sizes
Intermediate									
Production Tubing	4 1/2		10.5#	X			3409'	90 sks	Depth set
Liners									Perforations:
									3316-3344

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OPEN FLOW DATA

OIL & GAS DIVISION
DEPT. OF MINES

Producing formation Balltown Pay zone depth 3316-3344 feet

Gas: Initial open flow, show Mcf/d Oil: Initial open flow, ___ Bbl/d
Final open flow, 1,007 Mcf/d Final open flow, -0- Bbl/d

Time of open flow between initial and final tests, 240 hours

Static rock pressure, 1300 psig (surface measurement) after 24 hours shut in.

[If applicable due to multiple completion--]

Second producing formation _____ Pay zone depth _____ feet

Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, _____ Mcf/d Final open flow, _____ Bbl/d

Time of open flow between initial and final tests, _____ hours

Static rock pressure, _____ psig (surface measurement) after _____ hours shut in.

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Fracture well with 1 stage frac using 500 gallons of acid, 600 cwt. of frac sand, and 766 bbl. of water

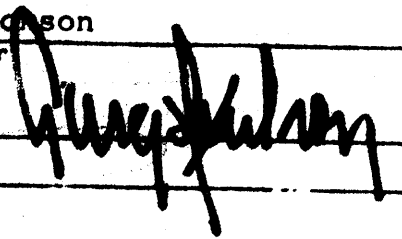
WELL LOG

FORMATION	Color	Hard or Soft	// Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Clay			0	5	
Sand			5	20	
Shale			20	65	
Sand			65	168	
Red Rock			168	195	
Sand			195	240	
Shale			240	320	
Red Rock			320	362	
Shale			362	480	
Sand			480	595	
Shale			595	610	
Coal			610	615	
Shale			615	630	
Sand			630	755	
Shale			755	794	
Coal			794	800	
Shale			800	810	
Sand			810	1170	Water 830'
Red Shale			1170	1390	
Sand			1390	1529	
Shale			1529	1545	
Sand			1545	1600	
Shale			1600	1745	
Sand			1745	1800	
Shale			1800	2010	
Sand			2010	2053	
Shale			2053	3280	
Sand BALL			3280	3350	
Shale			3350	3472	TD

(Attach separate sheets to complete as necessary)

George Jackson
Well Operator

By _____
Its _____



NOTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

JUL - 2 1979

BLANKET BOND

6480124

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 June 29, 1979

Surface Owner Bertie T. Cunningham, E. & D. Co.,
P.O., Mountain, West Virginia

Company George Jackson
Address P.O. Box 1698, Clarksburg, W. Va.

Mineral Owner Mrs. Jessie C. Hardesty, et al
Address Rt. #1 Shinnston, W. Va.

Farm B.F. Coffman Acres 260
Location (waters) Holan's Run

Coal Owner Episcopal Diocese of W. Va.
Diocese Center, 1600 Virginia St., E.
Charleston, W. Va. 25311

Well No. B-3 Elevation 1078 ft.
District Eagle County Harrison

Coal Operator Mountaineer Coal Company
Address Newnagh, W. Va.

Quadrangle Shinnston 7 1/2

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 3-18-80.

INSPECTOR
TO BE NOTIFIED _____

ADDRESS _____

PHONE _____

Robert S. [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 December 2 1899 by Mr. Coffman made to South Penn Oil Co. and recorded on the _____ day of _____ 19____ in Harrison County, Book 116 Page 122. Said lease by proper assignment vested to George Jackson

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.

Very truly yours,

(Sign Name) George Jackson

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

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.

47-033-2155

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 _____

BLANKET BOND

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 872-1892 _____ TELEPHONE 634-4861 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 3,600 _____ ROTARY CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION Balltown _____
 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	400 Ft.	400 Ft. Cemented	
8 - 5/8			
7			
5 1/2			
4 1/2	3,600 Ft.		
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 80 FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS Coal Stripped _____
 IS COAL BEING MINED IN THE AREA? Yes BY WHOM? Mountaineer Coal Co.

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