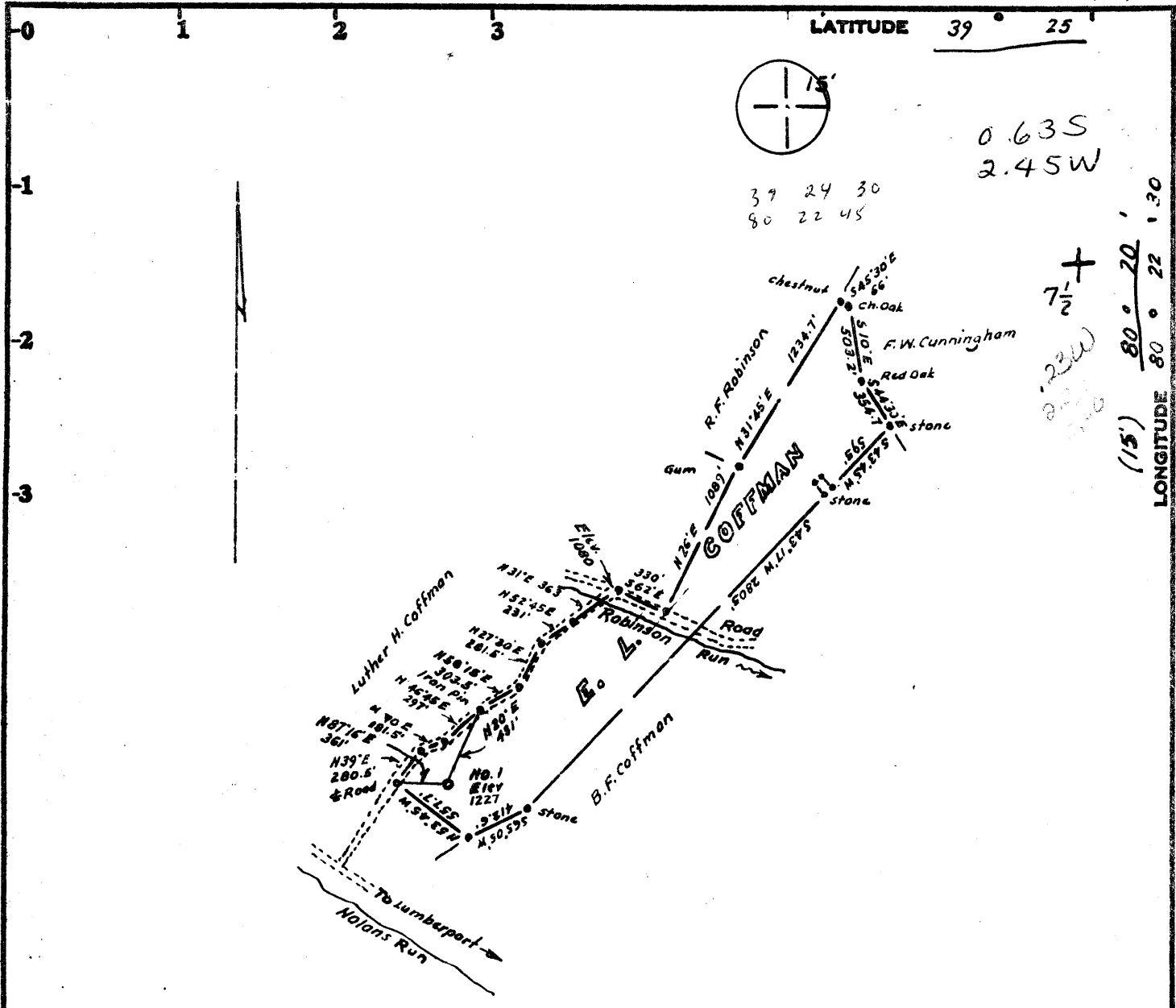


9/6/77



NOTE: Surface and coal is owned by The Consolidation Coal Co., Monongah, W. Va.

Minimum Error of Closure 1 in 2500'

Source of Elevation USGS elev. (shown) = 1080'

- 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: *Master J*
Squares: N S E W

Map No. _____

Company GEORGE JACKSON
 Address Postoffice Box 1698 Clarksburg, W. Va.
 Farm E. L. Coffman, Mautainear Coal Co.
 Tract _____ Acres 52 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 1237
 Quadrangle Wallace 7 1/2, CLARKSBURG 15'
 County Harrison District Eagle
 Engineer *Master J*
 Engineer's Registration No. 1227 LLS 200
 File No. _____ Drawing No. _____
 Date August 20, 1977 Scale 1" = 1000'

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

WELL LOCATION MAP

FILE NO. HAR-1133

+ 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.

OCT 7 1977

- Denotes one inch spaces on border line of original tracing. 47-033



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

AUG 15 1978

Oil and Gas Division DEPT. OF MINES

WELL RECORD 4

Quadrangle Wallace 7 1/2'

Permit No. HAR-1133
47-033

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

Company George Jackson
Address Box 1698, Clarksburg, W. Va.
Farm E. L. Goffman Acres 52
Location (waters) Nolan's Run
Well No. #1 B-930 (12437) Elev. 1,237'
District Eagle County Harrison
The surface of tract is owned in fee by
Mountaineer Coal Company
Address Monongah, W. Va.
Mineral rights are owned by Mrs. Helen Southern
Address 113 Ridgeway Dr. Bridgeport, WV
Drilling Commenced 12/20/77
Drilling Completed 1/07/78
Initial open flow 40 tenths - 2" cu. ft. _____ bbls.
Final production 858 M cu. ft. per day _____ bbls.
Well open 24 hrs. before test 1300# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8	279.20	279.20	sks.
8 5/8	1,504.90	1,504.90	35 sks.
7			
5 1/2			
4 1/2		3,587.95	65 sks.
3			
2			
Liners Used			

Well treatment details: 70,000 Lbs. Attach copy of cementing record.
Frac well with 700 # of sand, 500 gallons of acid, and 750 bbl. of water

Coal was encountered at 125' Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Balltown Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Clay			0	5		
Sand			5	60		
Shale			60	90		
Sand			90	105		
Shale			105	125		
Coal			125	130		
Lime			130	273		
Shale			273	298		
Red Rock			298	350		
Sand			350	550		
Shale			550	1300		
Red Rock			1300	1340		
Shale			1340	1355		
Sand			1355	1365		
Shale			1365	1385		
Red Rock			1385	1460		
Lime			1460	1470		
Shale			1470	1485		
Lime			1485	1540		
Sand			1540	1635		
Red Rock			1635	1640		
Shale			1640	1725		
Sand			1725	2150		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet <i>4</i>	Bottom Feet	Oil, Gas or Water	Remarks
Shale			2150	2156		
Sand			2156	2575		
Shale			2575	2770		
Sand			2770	2800		
Shale			2800	2870		
Sand			2870	2910		
Shale			2910	3080		
Sand			3080	3140		
Shale			3140	3215		
Sand			3215	3250		
Shale			3250	3340		
Sand		<i>Balltown</i>	3340	3550		
Shale			3550	3680		TD

Date *August 8*, 19 *78*

APPROVED *George Jackson*, Owner

By *[Signature]*
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
SEP - 2 1977
OIL & GAS DIVISION
DEPT. OF MINES

Blanket Bond
#420324

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE August 30, 1977

Surface Owner Mountaineer Coal Company
Address Monongah, W. Va.
Mineral Owner Mrs. Helen Southern
Address 113 Sidgway Drive, Bridgeport, W. Va.
Coal Owner Mountaineer Coal Company
Address Monongah, W. Va.
Coal Operator Mountaineer Coal Company
Address Monongah, W. Va.

Company George Jackson
Address P.O. Box 1698, Clarksburg, W. Va.
Firm B.J. Coffman Acres 52
Location (waters) Nolan's Run
Well No. B-930 (One) Elevation 1,237 Ft.
District Eagle County Harrison
Quadrangle Wallace 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 1-19-78.

INSPECTOR TO BE NOTIFIED Paul Garrett
ADDRESS 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 January 29 19 09 by B.L. Coffman made to Hope Natural Gas Co. and recorded on the _____ day of _____ 19____ in Harrison County, Book 183 Page 33 This is a joint drilling operation between Consolidated Gas Supply Corporation & 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.

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) [Signature]
George Jackson
P.O. Box 1698

Street
Clarksburg

City or Town
West Virginia

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

Har-1133 PERMIT NUMBER
47-033

"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 I DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Hugh K. 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: 3,600 Ft. ROTARY I CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Balltown
 TYPE OF WELL: OIL _____ GAS I 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	300 Ft.	300 Ft. Cemented	
8 - 5/8			
7	1,800 Ft.	1,800 Ft. (Probably)	
5 1/2			
4 1/2	3,600 Ft.		
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 50 FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS 150 Ft.
 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