



Minimum Error of Closure 1 in 200

Source of Elevation U.S.G.S.B.M. at road at mouth of

Cain Run = 92A

- 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: *Matthew J. [Signature]*

Map No. _____

Squares: N S E W

Company GEORGE JACKSON
 Address Goff Bldg. Clarksburg W.Va.
 Farm W. Brent Maxwell
 Tract _____ Acres 1393 Lease No. _____
 Well (Farm) No. Jackson No. 1 Serial No. _____
 Elevation (Spirit Level) 997'
 Quadrangle Holbrook NE of road
 County Doddridge District Southwest
 Engineer Matthew J. [Signature]
 Surveyor's Registration No. 1227
 File No. _____ Drawing No. _____
 Date April 24, 1975 Scale 1" = 600' = 990'

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

WELL LOCATION MAP

FILE NO. DOD-1788
 FORMERLY DOD-1784

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

— Denotes one inch spaces on border line of original tracing. 47-017



RECEIVED

NOV 6 - 1975

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES OIL & GAS DIVISION
Oil and Gas Division

WELL RECORD

Quadrangle Holbrook
Permit No. DOD-1788

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

Company George Jackson
Address P.O. Box 1698, Clarksburg, W.Va.
Farm W. Brent Maxwell Acres 1393
Location (waters) Hughes River
Well No. One Elev. 997
District Southwest County Doddridge
The surface of tract is owned in fee by Aaron S. Schwartzman
Address Nicole Ave. Washington, D.C.
Mineral rights are owned by W. Brent Maxwell Hrs.
Address Clarksburg, W.Va.
Drilling Commenced Sept. 27, 1975
Drilling Completed Oct. 4, 1975
Initial open flow Show cu. ft. _____ bbls.
Final production 2,144 M cu. ft. per day _____ bbls.
Well open 24 hrs. before test 750 RP.
Well treatment details:

| Casing and Tubing | Used in Drilling | Left in Well | Cement fill up Cu. ft. (Sks.) |
|-------------------|------------------|--------------|-------------------------------|
| Size 20-16 | | | |
| Cond. 13" 13-10" | 12 | 12 | |
| 9 5/8 | | | |
| 8 5/8 | 355 | 355 | 150 Bags |
| 7 | | | |
| 5 1/2 | | | |
| 4 1/2 | 2145 | 2145 | 185 Bags |
| 3 | | | |
| 2 | | | |
| Liners Used | | | |

Attach copy of cementing record.

1800- BBL. Water, 77,000 Lbs. 20-40 Sand, 1500 Gal. Acid.

Coal was encountered at None Feet _____ Inches _____
Fresh water 13 Feet _____ Salt Water None Feet _____
Producing Sand Big Injun, Wair & Berea Depth 1687-1693 1885-1909
1956-1962 2079-2085 Berea

| Formation | Color | Hard or Soft | Top Feet | Bottom Feet | Oil, Gas or Water | * Remarks |
|-------------|-------|--------------|----------|-------------|-------------------|-----------|
| Red Rock | | | 0 | 45 | | |
| Shale | | | 45 | 65 | | |
| Sand | | | 65 | 130 | | |
| Shale | | | 130 | 170 | | |
| Sand | | | 170 | 190 | | |
| Shale | | | 190 | 235 | | |
| Sand | | | 235 | 260 | | |
| Shale | | | 260 | 285 | | |
| Sand | | | 285 | 360 | | |
| Shale | | | 360 | 500 | | |
| Sandy Shale | | | 500 | 530 | | |
| Sand | | | 530 | 570 | | |
| Shale | | | 570 | 622 | | |
| Sand | | | 622 | 710 | | |
| Shale | | | 710 | 863 | | |
| Sand | | | 863 | 920 | | |
| Shale | | | 920 | 970 | | |
| Sand | | | 970 | 1010 | | |
| Sandy Shale | | | 1010 | 1110 | | |
| Sand | | | 1110 | 1180 | | |
| Shale | | | 1180 | 1230 | | |
| Sand | | | 1230 | 1300 | | |
| Shale | | | 1300 | 1330 | | |
| Sand | | | 1330 | 1380 | | |
| Shale | | | 1380 | 1400 | | |
| Sand | | | 1400 | 1475 | | |
| Shale | | | 1475 | 1550 | | |

(over)

* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

September 29, 1975

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 28, 1975

Surface Owner Aaron S. Schwartzman, et ux Company George Jackson
Nicole Ave., S.E., Washington, D.C. 20000
 Address Union National Bank, Clarksburg, W. Va. Address P.O. Box 1698, Clarksburg, W. Va. 26301
 Factory W. Brent Maxwell Heirs Farm W. Brent Maxwell Acres 1393
 Address Box 1450, Clarksburg, W. Va. Location (waters) Hughes River
 Coal Owner Aaron S. Schwartzman, et al. Well No. One Elevation 997'
 Address Nicole Ave., S.E., Washington, D.C. 20000 District Southwest County Doddridge
 Coal Operator _____ Quadrangle Rollbrook
 Address _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 27, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 1-30-76

INSPECTOR TO BE NOTIFIED PAUL GARRETT
PH: 622-3871 ADDRESS CLARKSBURG, W. VA.

[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 October 7 1898 by W. Brent Maxwell, et ux, made to Carter Oil Co. and recorded on the _____ day of _____, 19____, in _____ County, Book _____ Page _____ this is a joint venture between
George Jackson & Consolidated Gas Supply Corp.
 _____ 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 Same 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) [Signature]
George Jackson Well Operator
P. O. Box 1698 Street
Clarksburg, City or Town
West Virginia 26301 State

PLEASE SUBMIT COPIES OF ALL PHYSICAL DATA DIRECTLY TO:
 West Virginia Geological and Economic Survey
 P. O. Box 379
 Martinsburg, W. Va. 26505
 Phone 304-295-4461

Address of Well Operator

*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 BOARD

DODD-1788
47-017

PERMIT NUMBER

(FORMERLY DODD-1784)

[Signature]

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

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Hugh Spencer NAME George Jackson
 ADDRESS West Union, W. Va. ADDRESS P. O. Box 1698 624-6861 Telephone
 TELEPHONE 873 - 1602 TELEPHONE Clarksburg, W. Va. 26301
 ESTIMATED DEPTH OF COMPLETED WELL: 2000' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Injun
 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 | | | |
| 9 - 5/8 | | | |
| 8 - 5/8 | | | |
| 7 | 300' | 300' | |
| 5 1/2 | | | |
| 4 1/2 | 2000' | | |
| 3 | | | Perf. Top |
| 2 | | | Perf. Bottom |
| Liners | | | Perf. Top |
| | | | Perf. Bottom |

APPROXIMATE FRESH WATER DEPTHS 50 FEET SALT-WATER _____ FEET
 APPROXIMATE COAL DEPTHS None
 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

MAY 19 1975

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 28, 1975

Surface Owner Aaron S. Schwartzman, et ux. Company George Jackson
Nicole Ave., S.E., Washington, D.C. 20000
 Address National Bank, Clarksburg, Att' in Address P.O. Box 1698, Clarksburg, W. Va. 26301
W. Brent Maxwell Heirs Farm 1393 Acres
 Mineral Owner Box 1450, Clarksburg, W. Va. Location (waters) Hughes' River
 Address Aaron S. Schwartzman, et al. Well No. One Elevation 997'
 Coal Owner Nicole Ave., S.E., Washington, D.C. 20000 District Southwest County Doddridge
 Address Holbrook
 Coal Operator _____ Quadrangle _____
 Address _____

PERMIT MUST BE POSTED AT THE WELL SITE

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 9-20-75.

Robert K. Jones
Deputy Director - Oil & Gas Division
GENTLEMEN:

INSPECTOR TO BE NOTIFIED Richard J. Morris
PH: 354-7259 ADDRESS Grantville, W. Va. 26047

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 7, 1898 by W. Brent Maxwell, et ux. Carter Oil Co. made to _____ and recorded on the _____ day of _____, 19____.

George Jackson & Consolidated Gas Supply Corp. in _____ County, Book _____ Page _____
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 Well Operator
P. O. Box 1698
 Street
Clarksburg,
 City or Town
West Virginia 26301
 State

WE SUBMIT COPIES OF ALL PHYSICAL LOGS DIRECTLY TO:
West Virginia Geological and Economic Survey
P. O. Box 573
Martinsburg, W. Va. 26505
304-296-4461

*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

Permit - 1784 1788 PERMIT NUMBER
47-017

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 PROPOSED GEOLOGICAL FORMATION: Injun
 TYPE OF WELL: OIL _____ GAS COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

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| 7 | 300' | 300' | |
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| 3 | | | Perf. Top |
| 2 | | | Perf. Bottom |
| Liners | | | Perf. Top |
| | | | Perf. Bottom |

APPROXIMATE FRESH WATER DEPTHS 50 FEET SALT WATER _____ FEET
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 IS COAL BEING MINED IN THE AREA? No BY WHOM? _____

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For Coal Company

Official Title