STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
Oil and Gas Division  
WELL RECORD  

Quadrangle Holbrook  
Permit No. Dod-175 D D  

Company: P & H Oil Company  
Address: West Union, W. Va. 26462  
Farm: Georgia McKinna  
Acres: 476  
Location (wells): Long Run Middle Fork  
Well No.: 1  
Elev.: 960  
District: South West  
County: Doddridge  
The surface of tract is owned in fee by: McKinna  
Address: West Union, W. Va.  
Mineral rights are owned by McKinna & Others  
Address:  

Drilling Commenced: July 26, 1973  
Drilling Completed: August 14, 1973  
Initial open flow: 454 cu. ft. per day  
bbis.  
Final production: 2044 cu. ft. per day  
bbis.  
Well open: 72 hrs. before test  
RP.  

Well treatment details:  
Fracked 2nd Salt sand, Injun, Squaw & Weir  
1 000 bbl. Water, 1 000 gal. acid, 33 000 # sand  

Coal was encountered at: None  
Fresh water: None  
Salt Water  
Producing Sand: 2nd. Salt, Injun, Squaw, Weir  
Depth  

<table>
<thead>
<tr>
<th>Formation</th>
<th>Color</th>
<th>Hard or Soft</th>
<th>Top Feet</th>
<th>Bottom Feet</th>
<th>Oil, Gas or Water</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slate</td>
<td></td>
<td></td>
<td>1450</td>
<td>1488</td>
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<tr>
<td>2nd. Salt sand</td>
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<td>1522</td>
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<td>1588</td>
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<tr>
<td>3rd. Salt sand</td>
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<td>1608</td>
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<td>1608</td>
<td>1620</td>
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<td>Hard Lime</td>
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<td>1620</td>
<td>1650</td>
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<tr>
<td>Soft Lime</td>
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<tr>
<td>Hard Lime</td>
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<td>1661</td>
<td>1730</td>
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</tr>
<tr>
<td>Injun Sand</td>
<td></td>
<td></td>
<td>1730</td>
<td>1804</td>
<td></td>
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<tr>
<td>Slate &amp; Shells</td>
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<td></td>
<td>1804</td>
<td>1900</td>
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<tr>
<td>Gritty Lime (Weir)</td>
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<td></td>
<td>1900</td>
<td>2050</td>
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<tr>
<td>Slate &amp; Shells</td>
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<td>2050</td>
<td>2068</td>
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<tr>
<td>Lime</td>
<td></td>
<td></td>
<td>2068</td>
<td>2071</td>
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</tr>
<tr>
<td>Slate</td>
<td></td>
<td></td>
<td>2071</td>
<td>2078</td>
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<tr>
<td>Lime (Berea)</td>
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<td>2078</td>
<td>2086</td>
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<td>Slate &amp; Shells</td>
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<td>2086</td>
<td>2393</td>
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<tr>
<td>Total Depth</td>
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<td>2393</td>
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</tbody>
</table>

Rum 2040 feet 4½" Pipe with cement shoe. Filled hole with jell from 2393 to 2040 and with cement to 1500.  

* Indicates Electric Log tops in the remarks section.  

OCT 5 1973
TO THE DEPARTMENT OF MINES,  
Charleston, W. Va.  

Surface Owner: Georgia McCain  
Address: West Union, W. Va.  

Mineral Owner: McCain & others  
Address:  

Coal Owner: No coal  
Address:  

Coal Operator: None  
Address:  

DATE: June 28, 1973  
Company: P. & L. Oil Co.  
Address: West Union, W. Va.  

Farm: Georgia McCain  
Acres: 476  
Location (waters): Long Run/Middle Hughes River  
Well No.: 1  
Elevation: 960  
District: South West  
County: Dodd  
Quadrangle: Holbrook  

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 Oct. 21, 1967, made to Philadelphia Co. and recorded on the 19th day of October, 1967, in Doddridge County, Book 21 Page 76.  

NEW WELL X 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 19th day of October, 1967, 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)  

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.
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

ADDRESS

TELEPHONE

ESTIMATED DEPTH OF COMPLETED WELL:

ROTARY CABLE TOOLS

PROPOSED GEOLOGICAL FORMATION:

TYPE OF WELL: OIL GAS COMB. STORAGE DISPOSAL

RECYCLING WATER FLOOD OTHER

TENTATIVE CASING PROGRAM:

<table>
<thead>
<tr>
<th>CASING AND TUBING SIZE</th>
<th>USED FOR DRILLING</th>
<th>LEFT IN WELL</th>
<th>CEMENT FILL UP OR SACKS - CUBIC FT.</th>
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</thead>
<tbody>
<tr>
<td>20 - 16</td>
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<tr>
<td>13 - 10</td>
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<td></td>
<td></td>
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<tr>
<td>9 - 5/8</td>
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<tr>
<td>8 - 5/8</td>
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<tr>
<td>7</td>
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<td>5 1/2</td>
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<td></td>
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<tr>
<td>4 1/2</td>
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<tr>
<td>3</td>
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<td></td>
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<tr>
<td>2</td>
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<td></td>
</tr>
<tr>
<td>Liners</td>
<td>Perf. Top</td>
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<tr>
<td></td>
<td>Perf. Bottom</td>
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<tr>
<td></td>
<td>Perf. Top</td>
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<tr>
<td></td>
<td>Perf. Bottom</td>
<td></td>
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</tr>
</tbody>
</table>

APPROXIMATE FRESH WATER DEPTHS FEET SALT WATER FEET

APPROXIMATE COAL DEPTHS

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