

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
W E L L R E C O R D

| | | |
|-------------------|-----------------------------|---------------------|
| Permit No. Low-57 | Hope Natural Gas Co. | Dry Hole |
| Company | Clarksburg, W.Va. | CASING & TUBING |
| Address | J.B. Lovett Acres 140 | 10 1322 1322 |
| Farm | --- | 7 6662 6662 |
| Location | --- | |
| Well No. 8610 | Elev. 1131 | |
| District | Froemans Creek | Lewis County |
| Surface | Loyd G. Losh, Weston, W.Va. | Casing cemented |
| Mineral | --- | 7" cemented to 6017 |
| Commenced | 2-22-42 | back of 7" |
| Completed | 4-27-42 | |
| Shot | 5-3-42 | No coal |
| | Depth 6998 to 6997 | |
| | 1200# Gelatin | |
| Fresh Water | None recorded | |
| Salt Water | None recorded | |

| | | | | | | | | |
|-------------------------|-----------------|------|------|-----------------------------|--------------|-------|------|------|
| Soil | | 0 | 26 | Shale | Dk | Limey | 6590 | 6638 |
| Sand | H | 26 | 35 | Huntersville | Chert-Limey | | | |
| Shale | Bl | 35 | 46 | | Dr. Sandy | | 6638 | 6667 |
| Shale with Sand Streaks | | 46 | 310 | Chert | Gr to Dr | H | 6667 | 6735 |
| Sand | H | 310 | 335 | Siltstone | Cherty-Limey | | 6735 | 6765 |
| Shale | Sandy | 335 | 405 | Sand | Dr to Cherty | | 6765 | 6775 |
| Sand | Shaley | 405 | 552 | Chert | Dr -- Limey | | 6775 | 6885 |
| Sand | H | 552 | 625 | Limestone | Dr -- Cherty | | 6885 | 6898 |
| Shale-Sandy | | 625 | 680 | Oriskany Sand | Wh-Limey | H | 6898 | 6932 |
| Sand | H | 680 | 790 | Limestone with thin streaks | | | | |
| Shale | | 790 | 835 | of Sand | | | 6932 | 6997 |
| Sand-Salt | | 835 | 1075 | | | | | |
| Top Maugh Chunk | | 1075 | | TOTAL DEPTH | | | | 6997 |
| Shale | R&Grn. | 1075 | 1238 | | | | | |
| Maxon Sand | | 1238 | 1252 | | | | | |
| Shale | | 1252 | 1257 | | | | | |
| Sand | | 1257 | 1260 | | | | | |
| Shale | R | 1260 | 1279 | | | | | |
| Limestone | Gr (Little L) | 1279 | 1288 | | | | | |
| Shale | Gr Sandy | 1288 | 1304 | | | | | |
| Big Limo | | 1304 | 1392 | | | | | |
| Shale | | 1392 | 1403 | | | | | |
| Sand | Wh Limey | 1403 | 1425 | | | | | |
| Lime | Wh to Dr | 1425 | 1502 | | | | | |
| Sand | H | 1502 | 1520 | | | | | |
| Shale | | 1520 | 1680 | | | | | |
| Sand | Br | 1680 | 1710 | | | | | |
| Shale & Siltstone | | 1710 | 1770 | | | | | |
| Sand | Gr | 1770 | 1786 | | | | | |
| Shale | | 1786 | 1808 | | | | | |
| Sand | Grn H | 1808 | 1818 | | | | | |
| Shale | Gr Sandy | 1818 | 1870 | | | | | |
| Sand | Br Pebbly | 1870 | 1888 | | | | | |
| Shale | Gr | 1888 | 1902 | | | | | |
| Sand | | 1902 | 1930 | | | | | |
| Limestone | Br | 1930 | 1934 | | | | | |
| Sand | Wh to Dr | 1934 | 2007 | | | | | |
| Shale | Br to Gr | 2007 | 2026 | | | | | |
| Sand | Wh Pebbly | 2026 | 2060 | | | | | |
| Shale & Siltstone | | 2060 | 2165 | | | | | |
| Sand-Fifth | | 2165 | 2194 | | | | | |
| Shale | Gr with streaks | | | | | | | |
| | of siltstone | 2194 | 2735 | | | | | |
| Sand | Gr-Gray | 2735 | 2800 | | | | | |
| Shale | Gr | 2800 | 3593 | | | | | |
| Siltstone | Br H | 3593 | 3618 | | | | | |
| Shale&Siltstone | Br | 3618 | 4174 | | | | | |
| Sand | Dr Fine-H | 4174 | 4240 | | | | | |
| Shale | Gr | 4240 | 4315 | | | | | |
| Sand | Dr H | 4315 | 4325 | | | | | |
| Shale | Gr-Dr-Siltstone | 4325 | 6230 | | | | | |
| Shale | Bk S | 6230 | 6425 | Marcellus | | | | |
| Tulley Limestone | | 6425 | 6490 | | | | | |
| Shale | Limey | 6490 | 6590 | | | | | |

6898
1131

5767
1343

| | | |
|-------|-------|-------|
| 6638 | 6898 | 6982 |
| 1131 | 1131 | 1131 |
| ----- | ----- | ----- |
| 5507 | 5767 | 5851 |

6425 6230
1131 1131
----- -----
5294 5099

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

041-57

WELL RECORD

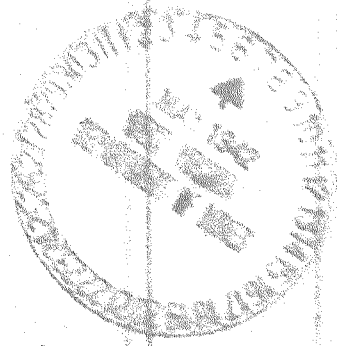
Permit No. LEW-57

Oil or Gas Well Oil Well
Case No.

Company Hope Natural Gas Company
Address Clarksburg, W. Va.
Farm J. B. Lovett Acres 140
Location (water?)
Well No. 8610 Elev. 1151
District Freemans Creek County Lewis
The surface of tract is owned in fee by Lloyd S. Losh
Address Reston, W. Va.
Mineral rights are owned by
Address
Drilling commenced 2-22-42
Drilling completed 4-27-42
Date Shot. 5-3-42 From 6892 To 6997
With 1200/ Gelatin
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume _____ Cu Ft
Rock Pressure _____ lbs _____ hrs.
Oil _____ Mbs. 1st 24 hrs.
Fresh water None recorded feet _____ feet _____
Salt water None recorded feet _____ feet _____

| Casing and Tubing | Used in Drilling | Left in Well | Features |
|---|------------------|--------------|--------------------|
| Size | | | |
| 10 | | | Kind of Packer |
| 10 | 1302 | 1327 | |
| 10 | 1322 | 1342 | Size of _____ |
| 6 1/2 | | | |
| 6 1/2 7" | 6442 | 6442 | Depth set _____ |
| 1 3/16 | | | |
| 2 | | | Perf. top _____ |
| 2 | | | Perf. bottom _____ |
| Liners Used | | | Perf. top _____ |
| | | | Perf. bottom _____ |
| CASING CEMENTED _____ SIZE _____ No. _____ DATE _____ | | | |
| 7" cemented to 6017 back of 7" | | | |
| COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES | | | |
| _____ FEET | _____ INCHES | _____ FEET | _____ INCHES |
| _____ FEET | _____ INCHES | _____ FEET | _____ INCHES |

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|-------------------------|--------------------------------|---------------|------|--------|-------------------|-------------|---------|
| Soil | | | 0 | 25 | | | |
| Sand | | Hard | 25 | 35 | | | |
| Shale | Blue | | 35 | 44 | | | |
| Shale with sand streaks | | | 44 | 310 | | | |
| Sand | | Hard | 310 | 335 | | | |
| Shale | Sandy | | 335 | 405 | | | |
| Sand | Shaley | | 405 | 552 | | | |
| Sand | | Hard | 552 | 625 | | | |
| Shale -Sandy | | | 625 | 680 | | | |
| Sand | | Hard | 680 | 730 | | | |
| Shale | | | 730 | 835 | | | |
| Sand | (Salt) | | 835 | 1075 | | | |
| Top Maunch Chunk | | | 1075 | | | | |
| Shale | Red-Green | | 1075 | 1236 | | | |
| Maxon Sand | | | 1236 | 1252 | | | |
| Shale | | | 1252 | 1257 | | | |
| Sand | | | 1257 | 1260 | | | |
| Shale | Red | | 1260 | 1279 | | | |
| Limestone | Gray | (Little Lina) | 1279 | 1288 | | | |
| Shale-Gray-Sandy | | | 1288 | 1304 | | | |
| Big Lina | | | 1304 | 1322 | | | |
| Shale | | | 1322 | 1405 | | | |
| Sand-White-Limey | | | 1405 | 1425 | | | |
| Lime-White to Brown | | | 1425 | 1502 | | | |
| Sand | | Hard | 1502 | 1520 | | | |
| Shale | | | 1520 | 1530 | | | |
| Sand | Brown | | 1530 | 1710 | | | |
| Shale & Siltstone | | | 1710 | 1770 | | | |
| Sand Sand | Gray | | 1770 | 1784 | | | |
| Shale | | | 1784 | 1808 | | | |
| Sand | Green | Hard | 1808 | 1816 | | | |
| Shale | Gray | Sandy | 1816 | 1870 | | | |
| Sand | Brown | Pebbly | 1870 | 1898 | | | |
| Shale | gray | | 1898 | 1902 | | | |
| Sand | | | 1902 | 1920 | | | |
| Limestone | Brown | | 1920 | 1934 | | | |
| Sand | White to Brown | | 1934 | 2007 | | | |
| Shale | Brown-Gray | | 2007 | 2026 | | | |
| Sand | White | Pebbly | 2026 | 2030 | | | |
| Shale & Siltstone | | | 2030 | 2120 | | | |
| Sand | (Yith Sand) | | 2120 | 2124 | | | |
| Shale | Gray with streaks of siltstone | | 2124 | 2725 | | | |



Handwritten initials or signature.

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|-------------------------------------|------------------------|--------------|------|--------|-------------------|-------------|---------|
| Sand | Green-Gray | | 2785 | 3500 | | | |
| Shale | Gray | | 3500 | 3593 | | | |
| Siltstone | Brown | Hard | 3593 | 3615 | | | |
| Shale & Siltstone | Brown | | 3615 | 4174 | | | |
| Sand | Brown | Fine-Hard | 4174 | 4340 | | | |
| Shale | Gray | | 4340 | 4315 | | | |
| Sand | Brown | Hard | 4315 | 4325 | | | |
| Shale | Gray-brown-siltstone | | 4325 | 4330 | | | |
| Shale (Marcellus) | Black-soft | | 4330 | 4425 | | | |
| Valley Limestone | | | 4425 | 4490 | | | |
| Shale | | Limy | 4490 | 4590 | | | |
| Shale | Black-limy | | 4590 | 4638 | | | |
| Huntersville | Chert-limy-brown-sandy | | 4638 | 4667 | | | |
| Chert | Gray to brown | Hard | 4667 | 4735 | | | |
| Siltstone-Cherty | Limy | | 4735 | 4765 | | | |
| Sand- | brown-cherty | | 4765 | 4775 | | | |
| Chert | Brown- Limy | | 4775 | 4822 | | | |
| Limestone | Brown- Cherty | | 4822 | 4896 | | | |
| Oriskany Sand | White-limy | Hard | 4896 | 4922 | | | |
| Limestone with thin streaks of sand | | | 4922 | 4997 | | | |
| | Total Depth | | | 4997 | | | |

APPROVED BY: *[Signature]*

[Handwritten Signature]