



west virginia department of environmental protection

Office of Oil and Gas
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Charleston, WV 25304
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Earl Ray Tomblin, Governor
Randy C. Huffinan, Cabinet Secretary
www.dep.wv.gov

September 12, 2016
PERMIT MODIFICATION APPROVAL
Horizontal 6A / Horizontal 6A Well - 1

JAY-BEE OIL & GAS, INC.
1720 RT. 22 E

UNION, NJ 070830000


Re: Permit Modification Approval for LARRY 3U
47-095-02334-00-00

Modified 13 3/8" to 2000'

JAY-BEE OIL & GAS, INC.

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.


James A. Martin
Chief

Operator's Well Number: LARRY 3U
Farm Name: JAY BEE PRODUCTION COMPANY
U.S. WELL NUMBER: 47-095-02334-00-00
Horizontal 6A / Horizontal 6A Well - 1
Date Issued: September 12, 2016

Promoting a healthy environment.

09/16/2016

18)

CASING AND TUBING PROGRAM

| TYPE | Size (in) | New or Used | Grade | Weight per ft. (lb/ft) | FOOTAGE: For Drilling (ft) | INTERVALS: Left in Well (ft) | CEMENT: Fill-up (Cu. Ft.)/CTS |
|--------------|------------------|--------------------|--------------|-------------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Conductor | 26 | New | A500 | 85 lb./ft | 30' | 30' | CTS 49 Cu. Ft. |
| Fresh Water | 20 | New | J-55 | 94 lb./ft | 300' | 300' | CTS 297 Cu. Ft. |
| Coal | 13 3/8 | New | J-55 | 61 lb./ft | 2,000' | 2,000' | CTS 1389 Cu. Ft. |
| Intermediate | 9 5/8 | New | HCP-110 | 47 lb./ft | 9,500' | 9,500' | 2537 Cu. Ft. |
| Production | 5 1/2 | New | P-110 | 23 lb./ft | 18,426' | 18,426' | 3951 Cu. Ft. |
| Tubing | | | | | | | |
| Liners | | | | | | | |

DmH 8-1-16 *JFS 8/1/16*

| TYPE | Size (in) | Wellbore Diameter (in) | Wall Thickness (in) | Burst Pressure (psi) | Anticipated Max. Internal Pressure (psi) | Cement Type | Cement Yield (cu. ft./k) |
|--------------|------------------|-------------------------------|----------------------------|-----------------------------|---|--------------------|---------------------------------|
| Conductor | 26 | 30 | .375 | N/A | 50 | Class A | 1.18-1.20 |
| Fresh Water | 20 | 24 | .438 | 2,110 | 1,000 | Class A | 1.18-1.20 |
| Coal | 13 3/8 | 17 1/2 | .480 | 3,090 | 1,500 | Class A | 1.18-1.24 |
| Intermediate | 9 5/8 | 12 1/4 | .435 | 9,440 | 2,000 | Class A | 1.18-3.00 |
| Production | 5 1/2 | 8 1/2 | .415 | 16,800 | 2,500 | Class A | 1.36-2.08 |
| Tubing | | | | | | | |
| Liners | | | | | | | |

PACKERS

| | | | | |
|-------------|-----|--|--|--|
| Kind: | N/A | | | |
| Sizes: | N/A | | | |
| Depths Set: | N/A | | | |