



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

August 15, 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

Extend Lateral

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: August 15,2016

Promoting a healthy environment.

08/19/2016



west virginia department of environmental protection

Oil and Gas Conservation Commission
601 57th Street, SE Charleston, WV 25304
(304)926-0499, Ext 1656

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
dep.wv.gov

July 12, 2016

Department of Environmental Protection
Office of Oil and Gas
Charleston, WV 25304

COMPANY: Jay-Bee Oil & Gas, Inc.

FARM: Larry 3U

COUNTY Tyler DISTRICT: Ellsworth QUAD: Middlebourne/Shirley

The application for the above company is **approved to drill to Trenton – Utica completion**

The applicant has complied with the provision of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

1. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners; yes
2. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells, well name, and the name and address of the operator; yes
3. Provided a plat showing that the proposed location is a distance of 582 feet from the nearest **lease line** or unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

Cindy Raines
Program Manager

*47-095-02321 Jay-Bee (exception location through Docket 240-230)
47-095-02273 Antero (exception location through Docket 240-230)

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Jay-Bee Oil & Gas 24610 Tyler Ellsworth Middlebourne 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Larry 3U Well Pad Name: Larry Pad

3) Farm Name/Surface Owner: Jay Bee Production Company Public Road Access: Klondike Rd

4) Elevation, current ground: 740.23 Elevation, proposed post-construction: 739.4

5) Well Type (a) Gas Oil _____ Underground Storage _____

Other

(b) If Gas Shallow _____ Deep

Horizontal

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Utica: 10,615' Depth, 256' Thickness, 8000 psi, Trenton: 10,730' Depth Thickness, 180' Thickness, 8000 psi

8) Proposed Total Vertical Depth: 10,730' TVD, 10,615 TVD (Horizontal section)

9) Formation at Total Vertical Depth: Trenton (TVD), Utica(Horizontal)

10) Proposed Total Measured Depth: 18,426'

11) Proposed Horizontal Leg Length: 7,311'

12) Approximate Fresh Water Strata Depths: 74.6

13) Method to Determine Fresh Water Depths: Well Record 47-095-01127 & 47-095-00864

14) Approximate Saltwater Depths: N/A

15) Approximate Coal Seam Depths: N/A

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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	2,500'	2,500'	CTS 1830 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							

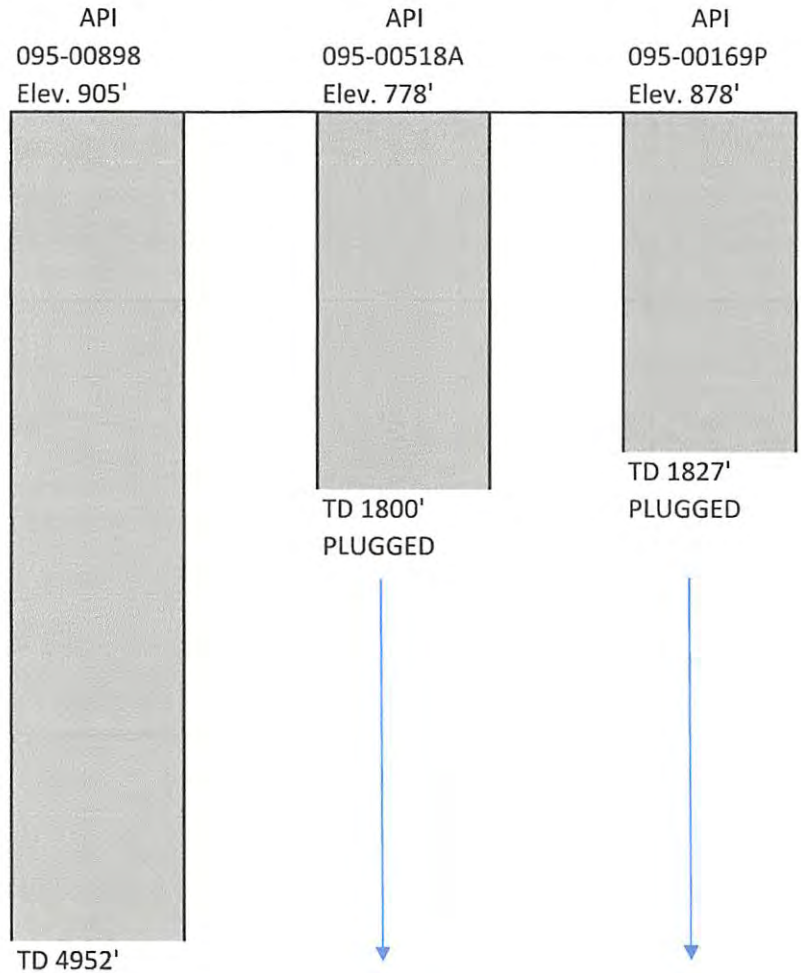
TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	.375	N/A	50	Class A	1.18-1.20
Fresh Water	20	24	.438	2,110	1,000	Class A	1.18-1.20
Coal	13 3/8	17 1/2	.480	3,090	1,500	Class A	1.18-1.24
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			

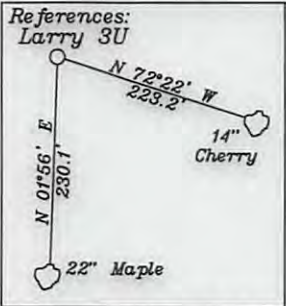
Area of Review

Larry 3U - API 47-095-02334



Operator	Triad Hunter		Heritage Oil & Gas		Unknown
Well Name	Westfall 2		4		2
Perforated Formations	Benson		Injun		Injun
Unperforated Producing Formations	Gas Sand		Gas Sand		Gas Sand
	Injun				
	Gordon				
	Bayard				
	Warren				
	Balltown				
	Riley				

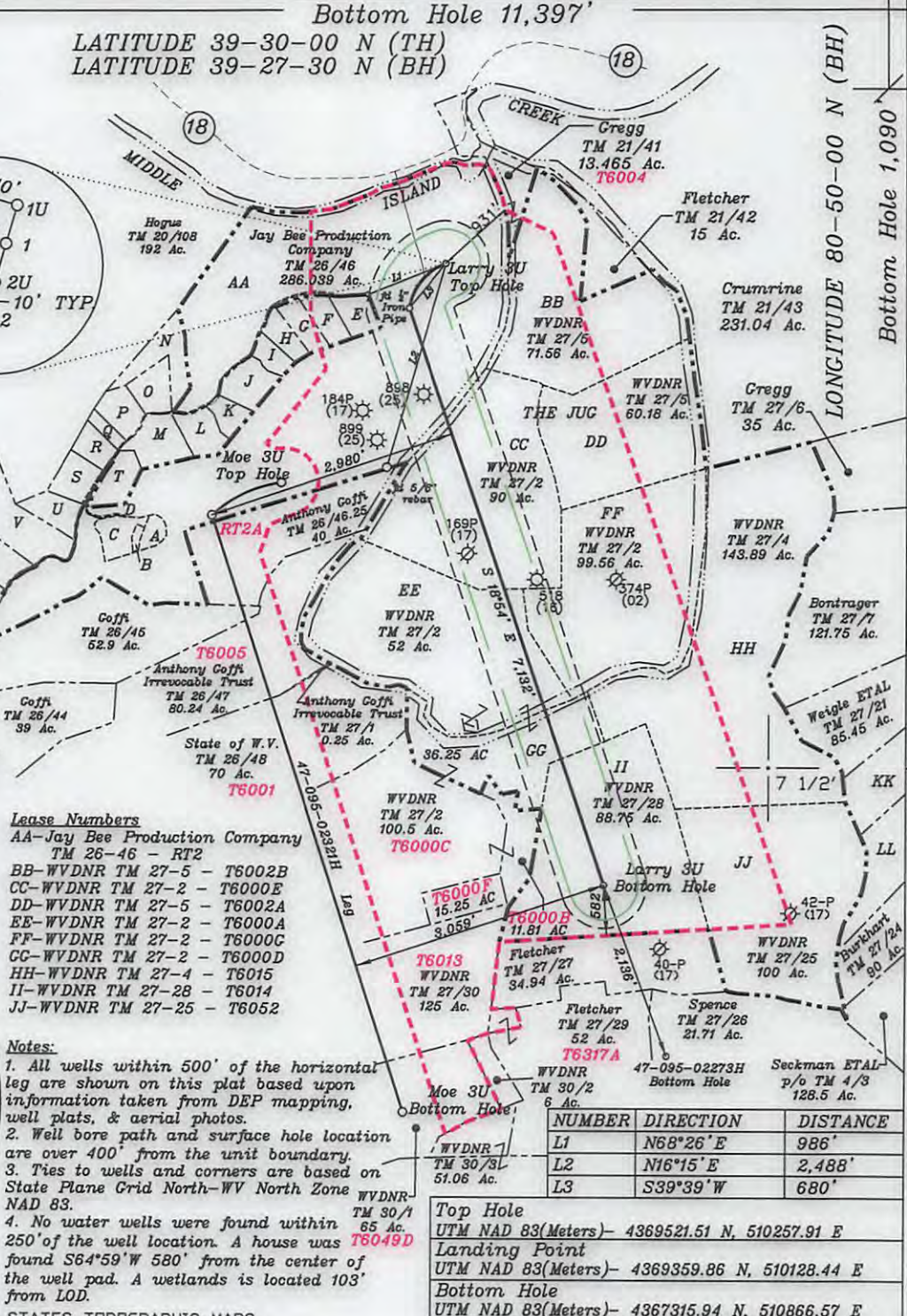
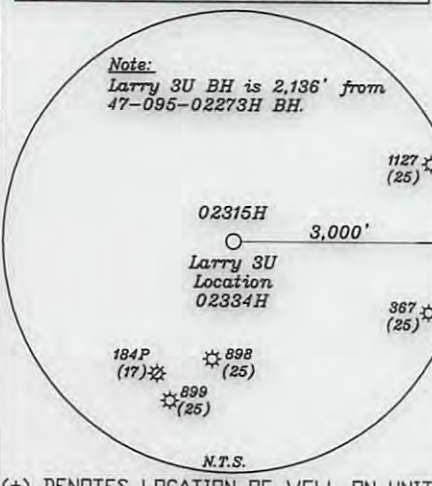
Bottom Hole 11,397'
 LATITUDE 39-30-00 N (TH)
 LATITUDE 39-27-30 N (BH)



- A-Peek TM. 26-46.8 2.079 Ac.
- B-Peek TM. 26-46.20 0.652 Ac.
- C-Peek TM. 26-46.19 4.59 Ac.
- D-Peek TM. 26-46.21 0.22 Ac.
- E-Sulser TM. 20-110 4.412 Ac.
- F-Kelly TM. 26-46.18 4.323 Ac.
- G-Kelly TM. 26-46.17 4.114 Ac.
- H-Johnson TM. 26-46.23 3.598 Ac.
- I-Johnson TM. 26-46.22 2.92 Ac.
- J-Holliday TM. 26-46.13 5.94 Ac.
- K-Holliday TM. 26-46.12 3.238 Ac.
- L-Kanz TM. 26-46.3 5.4 Ac.
- M-Patera TM. 26-46.7 7.32 Ac.
- N-JayBee TM. 26-46.14 8.692 Ac.
- O-Pittman TM. 26-46.2 5.135 Ac.
- P-Johnson TM. 26-46.9 5 Ac.
- Q-Patera TM. 26-46.6 1.702 Ac.
- R-Patera TM. 26-46.15 3.722 Ac.
- S-JayBee TM. 26-46.16 5.094 Ac.
- T-Shrader TM. 26-46.1 5.58 Ac.
- U-Ison TM. 26-46.10 4.98 Ac.
- V-Doty TM. 26-46.5 13.14 Ac.
- W-Kanz TM. 26-46.4 8.1 Ac.
- X-Walton TM. 26-46.11 6.43 Ac.
- Y-JayBee TM. 26-46.24 3.059 Ac.
- Z-JayBee TM. 26-19.9 1.496 Ac.
- KK-Weigle TM. 27-22 60.19 Ac.
- LL-Weigle TM. 27-23 61.62 Ac.

The distance between Larry 3U Top Hole and Moe 3U Top Hole is 3,222'. The distance of the Moe 3U Top Hole to Larry 3U leg is 2,087'.

400' from Bore Path
 500' from Bore Path
 Unit Boundary Line



- Lease Numbers
- AA-Jay Bee Production Company TM 26-46 - RT2
 - BB-WVDNR TM 27-5 - T6002B
 - CC-WVDNR TM 27-2 - T6000E
 - DD-WVDNR TM 27-5 - T6002A
 - EE-WVDNR TM 27-2 - T6000A
 - FF-WVDNR TM 27-2 - T6000C
 - GG-WVDNR TM 27-2 - T6000C
 - HH-WVDNR TM 27-4 - T60015
 - II-WVDNR TM 27-28 - T6014
 - JJ-WVDNR TM 27-25 - T6052

Notes:
 1. All wells within 500' of the horizontal leg are shown on this plat based upon information taken from DEP mapping, well plats, & aerial photos.
 2. Well bore path and surface hole location are over 400' from the unit boundary.
 3. Ties to wells and corners are based on State Plane Grid North-WV North Zone NAD 83.
 4. No water wells were found within 250' of the well location. A house was found S64°59'W 580' from the center of the well pad. A wetlands is located 103' from LOD.

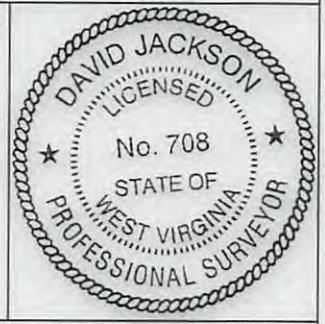
NUMBER	DIRECTION	DISTANCE
L1	N68°26'E	986'
L2	N16°15'E	2,488'
L3	S39°39'W	680'

Top Hole
 UTM NAD 83(Meters)- 4369521.51 N, 510257.91 E
 Landing Point
 UTM NAD 83(Meters)- 4369359.86 N, 510128.44 E
 Bottom Hole
 UTM NAD 83(Meters)- 4367315.94 N, 510866.57 E

FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION GPS
submeter unit

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

(SIGNED) David L Jackson
 R.P.E. _____ L.L.S. 708



STATE OF WEST VIRGINIA
 Division of Environmental Protection
 OFFICE OF OIL AND GAS

DATE June 10, 2016
 OPERATOR'S WELL NO. Larry 3U
 API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION X WASTE DISPOSAL _____
 (IF "GAS") PRODUCTION X STORAGE _____ DEEP X SHALLOW _____
 LOCATION: ELEVATION 739.4' WATER SHED Middle Island Creek
 DISTRICT Ellsworth COUNTY Tyler
 QUADRANGLE Middlebourne 7 1/2' (TH), Shirley 7 1/2' (BH)

SURFACE OWNER Jay Bee Production Company ACREAGE 286.03 ac.
 OIL & GAS ROYALTY OWNER Ridgetop Capital LP, and Ridgetop Capital II, LP LEASE ACREAGE 286.03 ac.
 LEASE NO. RT2

PROPOSED WORK: DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Utica ESTIMATED DEPTH TVD = 10,615'; TMD = 18,247'
 WELL OPERATOR Jay-Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda
 ADDRESS 1720 Route 22 E, Union, NJ 07083 ADDRESS 3570 Shields Hill Rd., Cairo, WV 26337

To: Adkins, Laura L <Laura.L.Adkins@wv.gov>

Subject: RE: Larry 3U Plat Adjustment

Laura,

Cindy and the OGCC has approved this already, just waiting on horizontal to be ok with it before we directional. Enjoy your vacation!

Thanks,

-Shane

From: Adkins, Laura L [<mailto:Laura.L.Adkins@wv.gov>]

Sent: Tuesday, June 28, 2016 2:42 PM

To: Shane Dowell <sdowell@jaybeeoil.com>

Subject: Re: Larry 3U Plat Adjustment

Shane,

I'm on vacation. Is this the one that Cindy still has to approve?

Sent from my iPhone

On Jun 27, 2016, at 11:58 AM, Shane Dowell <sdowell@jaybeeoil.com> wrote:

Laura,

I sent an updated plat on 6-14-2016 for one of our wells we will be drilling. I wanted to find out what the turnaround time is on approval of this modification? 47-095-02334 API. I just want to make sure I have the approved modification before we drill. Thank you for your review! Hope all is well down there!

Thanks,

Shane Dowell

Office Manager

Jay-Bee Oil & Gas, Inc.

sdowell@jaybeeoil.com

(304) 628-3111 – office

(304) 904-1700 - mobile

(304) 628-3119 – fax

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2016.0.7639 / Virus Database: 4613/12509 - Release Date: 06/28/16

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2016.0.7688 / Virus Database: 4627/12565 - Release Date: 07/05/16



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505

Earl Ray Tomblin
Governor

Paul A. Mattox, Jr., P. E.
Secretary of Transportation/
Commissioner of Highways

October 9, 2015

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the Larry Pad, Tyler County
Larry 2U Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2013-0200 issued to Jay-Bee Oil & Gas, Inc. for access to the State Road for a well site located off of Tyler County Route 46 SLS.

The operator has signed a DISTRICT WIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

A handwritten signature in blue ink that reads "Gary K. Clayton".

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

Cc: Shane Dowell
Jay-Bee Oil & Gas, Inc.
CH, OM, D-6
File



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505

Earl Ray Tomblin
Governor

Paul A. Mattox, Jr., P. E.
Secretary of Transportation/
Commissioner of Highways

October 9, 2015

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the Larry Pad, Tyler County
Larry 2 Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2013-0200 issued to Jay-Bee Oil & Gas, Inc. for access to the State Road for a well site located off of Tyler County Route 46 SLS.

The operator has signed a DISTRICT WIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

A handwritten signature in blue ink that reads "Gary K. Clayton".

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

Cc: Shane Dowell
Jay-Bee Oil & Gas, Inc.
CH, OM, D-6
File

Print Date Wednesday, Jan 6 2016
Print Time 12:23:20 PM

Print Date Wednesday, Jan 6 2016
Print Time 12:22:22 PM

TYLER County
Instrument No 117370
Recorded Date 01/06/2016
Transaction Time 12:18:22 PM
Name1 JAY-BEE OIL AND GAS
Name2 JAY-BEE PRODUCTION CO
MPANY
Document Type OG
Pages Recorded 1
Book-Page 515-820
Recording Fee \$5.00
SB592 \$1.00
SB6220 \$5.00
Total Due \$11.00
Multi Received \$11.00
Change \$0.00

TYLER County
Instrument No 117371
Recorded Date 01/06/2016
Transaction Time 12:22:22 PM
Name1 JAY-BEE OIL & GAS
Name2 JAY-BEE PRODUCTION CO
MPANY
Document Type OG
Pages Recorded 1
Book-Page 515-821
Recording Fee \$5.00
SB592 \$1.00
SB6220 \$5.00
Total Due \$11.00
Multi Received \$11.00
Change \$0.00

Larry Z
Waiver

Larry Z
Waiver

Print Date Wednesday, Jan 6 2016
Print Time 12:24:57 PM
TYLER County
Instrument No 117372
Recorded Date 01/06/2016
Transaction Time 12:23:21 PM
Name1 JAY-BEE OIL & GAS
Name2 JAY-BEE PRODUCTION CO
MPANY
Document Type OG
Pages Recorded 1
Book-Page 515-822
Recording Fee \$5.00
SB592 \$1.00
SB6220 \$5.00
Total Due \$11.00
Cash Received \$13.00
Total Received \$13.00
Change \$2.00

Larry Z
Waiver

Adkins, Laura L

From: Adkins, Laura L
Sent: Tuesday, July 12, 2016 2:01 PM
To: 'Shane Dowell'
Cc: Smith, Gene C; Taylor Brewer (charles.t.brewer@wv.gov)
Subject: RE: Larry 3U Plat Adjustment
Attachments: Area of Review rule.pdf

Shane,

All applications and mods to extend laterals will now need to include an Area of Review before we can issue. I know you are hoping to get the Larry 3U modification approved but I cannot issue it until we receive the information necessary to meet the rule change.

I have attached the rule which states the criteria required for the report.

I apologize, the rule went into effect on Saturday and it has been determined that anything issued after Saturday, July 9th will need to meet the requirements.

Laura

From: Shane Dowell [mailto:sdowell@jaybeeoil.com]
Sent: Wednesday, July 06, 2016 11:41 AM
To: Adkins, Laura L <Laura.L.Adkins@wv.gov>
Subject: RE: Larry 3U Plat Adjustment

Thank you!!!

Thanks,

-Shane

From: Adkins, Laura L [mailto:Laura.L.Adkins@wv.gov]
Sent: Wednesday, July 6, 2016 9:58 AM
To: Shane Dowell <sdowell@jaybeeoil.com>
Subject: RE: Larry 3U Plat Adjustment

Shane,

Looks like Cindy reviewed and approved the updated plat on 6/30. I will track it down to issue the modification and let you know as soon as it is issued.

Thanks,
Laura

From: Shane Dowell [mailto:sdowell@jaybeeoil.com]
Sent: Tuesday, June 28, 2016 4:23 PM