



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. Huffinan, 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 MOE 3U
47-095-02321-00-00

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: MOE 3U
Farm Name: JAY BEE PRODUCTION COMPANY
U.S. WELL NUMBER: 47-095-02321-00-00
Horizontal 6A / Horizontal 6A Well - 1
Date Issued: August 15, 2016

Promoting a healthy environment.

08/19/2016

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: Moe 3U Well Pad Name: Moe Pad

3) Farm Name/Surface Owner: Jay-Bee Oil & Gas, Inc. Public Road Access: Klondike Rd

4) Elevation, current ground: 964.86 Elevation, proposed post-construction: 961.91

5) Well Type (a) Gas X Oil Underground Storage
Other

(b) If Gas Shallow Deep X
Horizontal X

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Utica: 10,840' Depth, 256' Thickness, 8000 psi, Trenton: 11,125' Depth Thickness, 180' Thickness, 8000 psi

8) Proposed Total Vertical Depth: 11,125' TVD, 10,840' TVD (Horizontal section)

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

10) Proposed Total Measured Depth: 18,843'

11) Proposed Horizontal Leg Length: 7,478'

12) Approximate Fresh Water Strata Depths: 297.11"

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 X

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

Received
Office of Oil & Gas
JUL 05 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	350'	350'	CTS 336 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	P-110	43.5 lb./ft	9,500'	9,500'	2537 Cu. Ft.
Production	5 1/2	New	P-110	23 lb./ft	18,843'	18,843'	3063 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	8,700	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			Received

Office of Oil & Gas

JUL 05 2016

095-02321

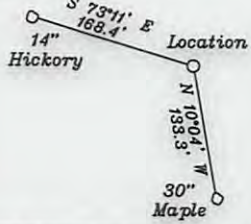
Area of Review

MOE 3U - API 47-095-02321

There are no wells located within the area of review

08/19/2016

References



Top Hole
Geo NAD 83- 39.468073 N, 80.887458 W
UTM NAD 83(Meters)-4368727.33 N, 509680.64 E
UTM NAD 83(Feet)-14333066.24 N, 1672177.23 E

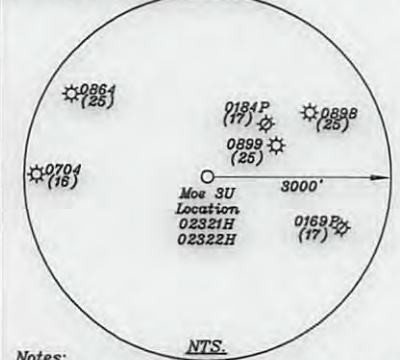
Landing Point
Geo NAD 83- 39.466989 N, 80.890314 W
UTM NAD 83(Meters)-4368606.71 N, 509435.13 E
UTM NAD 83(Feet)-14332870.50 N, 1671371.75 E

Bottom Hole
Geo NAD 83- 39.447573 N, 80.881706 W
UTM NAD 83(Meters)-4366452.78 N, 510178.43 E
UTM NAD 83(Feet)-14325603.83 N, 1673810.41 E

- A-Sulser TM. 20-110 4.412 Ac.
- B-Kelly et al TM. 26-46.18 4.323 Ac.
- C-Kelly et al TM. 26-46.17 4.114 Ac.
- D-Johnson TM. 26-46.23 3.598 Ac.
- E-Johnson TM. 26-46.22 2.92 Ac.
- F-Holliday TM. 26-46.13 5.94 Ac.
- G-Holliday TM. 26-46.12 3.238 Ac.
- H-Kanz TM. 26-46.3 5.4 Ac.
- I-Patera TM. 26-46.7 7.32 Ac.
- J-Peek TM. 26-46.8 2.079 Ac. DOAN
- K-Peek TM. 26-46.20 0.652 Ac. DOAN
- L-Peek TM. 26-46.19 4.59 Ac. DOAN
- M-WVDNR TM. 27-3 0.44 Ac.
- N-Shrader TM. 26-46.1 5.58 Ac.
- O-Peek TM. 26-46.21 0.22 Ac.
- P-JayBee TM. 26-46.14 8.692 Ac.
- Q-Pittman TM. 26-46.2 5.135 Ac.
- R-Johnson TM. 26-46.9 5 Ac.
- S-Patera TM. 26-46.6 1.702 Ac.
- T-Patera TM. 26-46.15 3.722 Ac.
- U-JayBee TM. 26-46.16 5.094 Ac.
- V-Ison TM. 26-46.10 4.98 Ac.
- W-Doty TM. 26-46.5 13.14 Ac.
- X-Kanz TM. 26-46.4 8.1 Ac.
- Y-Walton TM. 26-46.11 6.43 Ac.
- Z-JayBee TM. 26-46.24 3.059 Ac.
- AA-Palmer TM. 26-19.11 9.40 Ac.
- BB-Westbrook TM. 26-19.4 9.36 Ac.
- CC-Reed TM. 26-41 1 Ac.
- DD-Reed TM. 26-40 2.75 Ac.
- EE-Reed et al TM. 26-39 8.17 Ac.
- FF-JayBee Oil & Gas, Inc. TM. 26-19.9 1.496 Ac.
- GG-WVDNR TM. 29-7 7.5 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'.

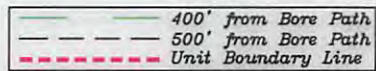
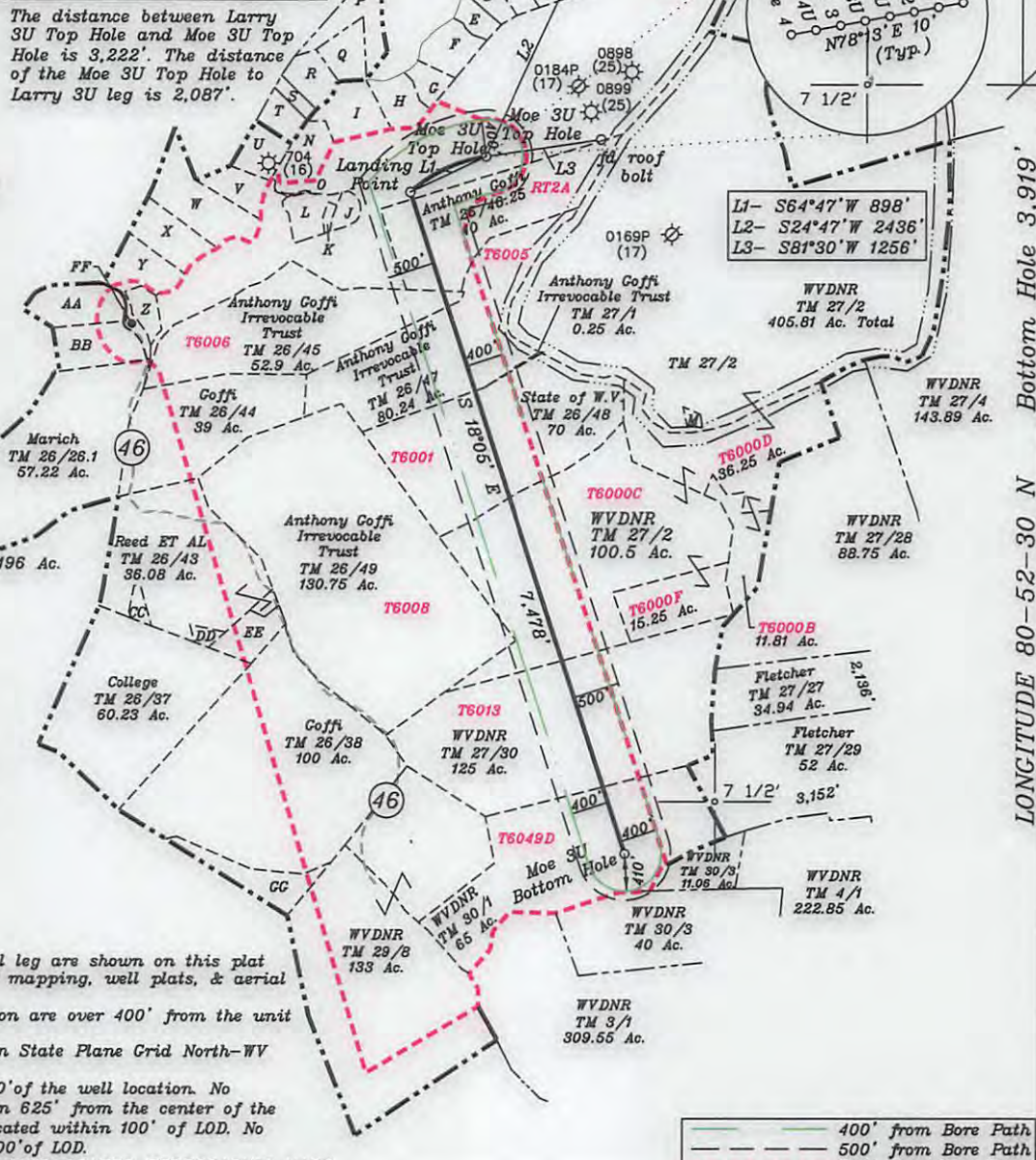
NORTH



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. No dwellings or buildings were found within 625' from the center of the proposed pad. No perennial stream is located within 100' of LOD. No producing trout stream located within 300' of LOD.

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS



LONGITUDE 80-52-30 N Bottom Hole 3,919' Top Hole 11,630'

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 Jackson
R.P.E. _____ P.S. 708



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

DATE June 28, 2016
OPERATOR'S WELL NO. Moe 3U
API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS") PRODUCTION STORAGE _____ DEEP SHALLOW _____

LOCATION: ELEVATION 961.9' WATER SHED Middle Island Creek
DISTRICT Ellsworth COUNTY Tyler
QUADRANGLE Middlebourne 7 1/2'

SURFACE OWNER Jay Bee Production Company ACREAGE 286.03 ac.
OIL & GAS ROYALTY OWNER Ridgetop Capital LP and Ridgetop Capital II, LP LEASE ACREAGE 08/19/2016
LEASE NO. RT2

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

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
TARGET FORMATION Utica ESTIMATED DEPTH TVD = 10,840' TMD = 18,843'
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

95-02321



JAY-BEE OIL & GAS, INC.

June 30, 2016

Horizontal Well Permitting Office
ATTN Laura Adkins
Office of Oil and Gas
West Virginia Dept. of Environmental Protection
601 57th Street SE
Charleston, WV 25304

RE: Moe 3U Updated Plat – 47-095-02321

Ms. Adkins:

Jay-Bee Oil & Gas, Inc. requests a modification of the plat and leg length for the Moe 3U (API 47-095-02321). The coordinates did not change, and the following changes were made to the original plat:

- Larry 3U 47-095-02334 notes were added to the plat, with distances.
- The distance between the Moe 3U bottom hole and the boundary was updated. This increased the leg length as well.

We will be spudding this well within the next 7-10 days, and would like the new plat approved prior to, for our files. Any way that the approval can be expedited would be appreciated. Included in this letter is an updated WW6B, due to distance increase. The actual Mylar was submitted directly to you by my surveyor, and will be received in a different mailing.

If you would have any questions concerning this matter, please feel free to contact our office at the numbers listed below.

Sincerely,

Shane Dowell
Office Manager

Received
Office of Oil & Gas
JUL 05 2016