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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> 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](http://www.dep.wv.gov)

September 13, 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 RPT8-4U  
47-095-02330-00-00

Extend Lateral and Modify Casing

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: RPT8-4U  
Farm Name: HAIR, JACK  
U.S. WELL NUMBER: 47-095-02330-00-00  
Horizontal 6A / Horizontal 6A Well - 1  
Date Issued: September 16, 2016

Promoting a healthy environment.



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west virginia department of environmental protection

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

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

July 20, 2016

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

RE: Application for Deep Well Permit – API #47-095-02330

COMPANY: Jay-Bee Oil & Gas, Inc.

FARM: Jack Hair, et al RPT8-4U

COUNTY: Tyler DISTRICT: McElroy QUAD: Shirley

The deep well review of the application for the above company is **APPROVED TO UTICA.**  
Modification: extended lateral and adjusted direction slightly

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. Comments to Notice of Deviation filed? none
2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners; yes
3. 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; none
4. Provided a plat showing that the proposed location is a distance of 400 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  
ERP Administrator

18)

**CASING AND TUBING PROGRAM**

<b>TYPE</b>	<b>Size (in)</b>	<b>New or Used</b>	<b>Grade</b>	<b>Weight per ft. (lb/ft)</b>	<b>FOOTAGE: For Drilling (ft)</b>	<b>INTERVALS: Left in Well (ft)</b>	<b>CEMENT: Fill-up (Cu. Ft.)/CTS</b>
Conductor	26	New	A500	85 lb./ft	30'	30'	CTS 49 Cu. Ft.
Fresh Water	20	New	J-55	94 lb./ft	425'	425'	CTS 408 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'	3,059 Cu. Ft.
Production	5 1/2	New	P-110	23 lb./ft	16,945'	16,945'	3,653 Cu. Ft.
Tubing							
Liners							

*DmH*  
*8-1-16*      *8/1/16*

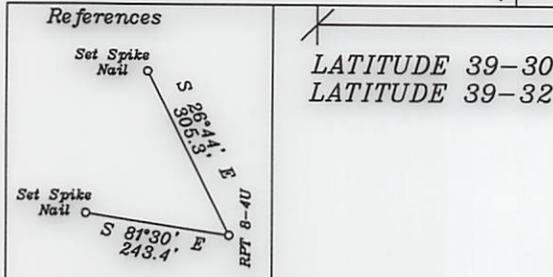
<b>TYPE</b>	<b>Size (in)</b>	<b>Wellbore Diameter (in)</b>	<b>Wall Thickness (in)</b>	<b>Burst Pressure (psi)</b>	<b>Anticipated Max. Internal Pressure (psi)</b>	<b>Cement Type</b>	<b>Cement Yield (cu. ft./k)</b>
Conductor	26	30	.375	N/A	50	Class A	1.18-1.20
Fresh Water	20	24	.438	2,110	1,000	Class A	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	Type 1 Cement	1.36-2.08
Tubing							
Liners							

**PACKERS**

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

LATITUDE 39-30-00 N TH  
LATITUDE 39-32-30 N BH

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

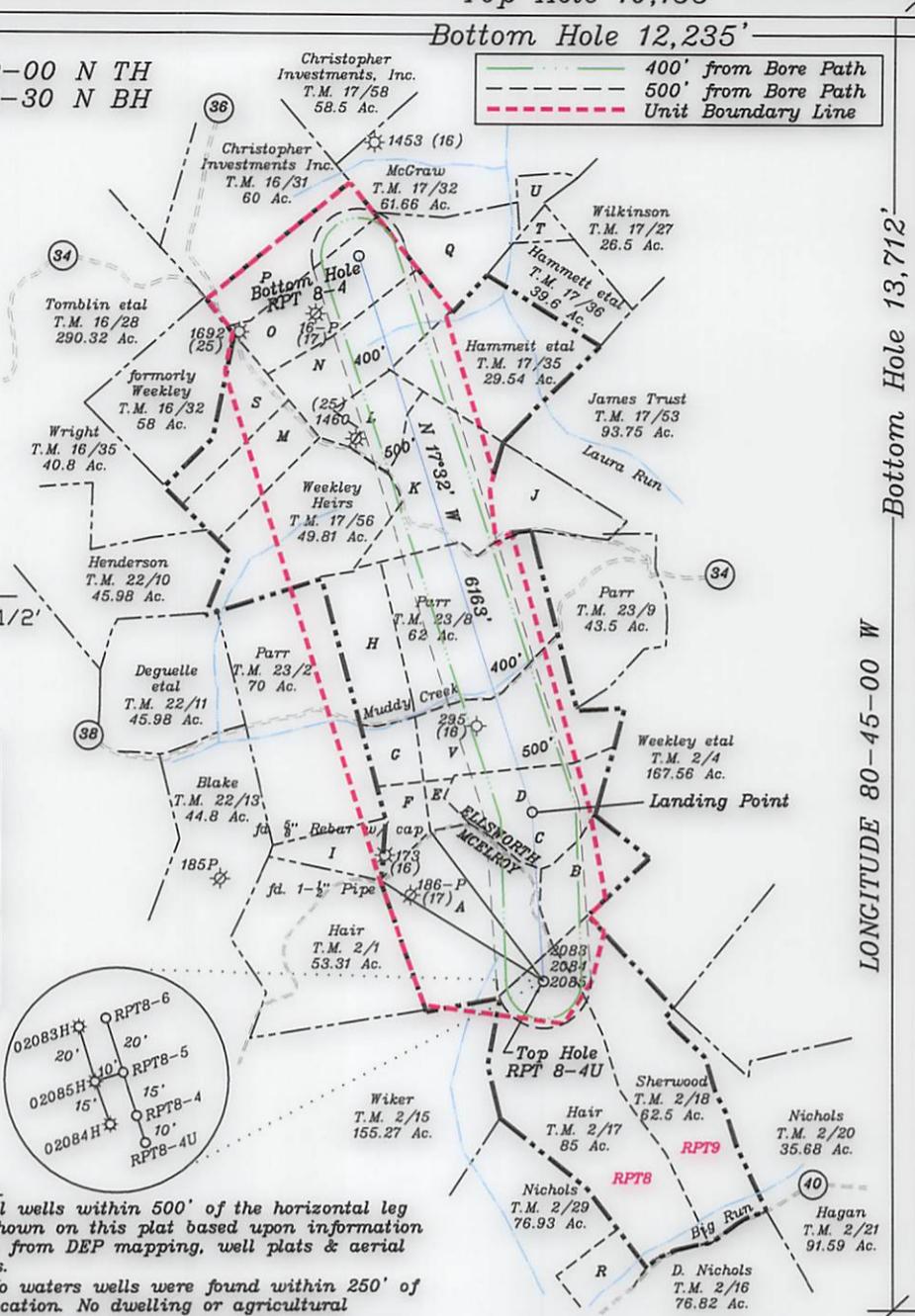
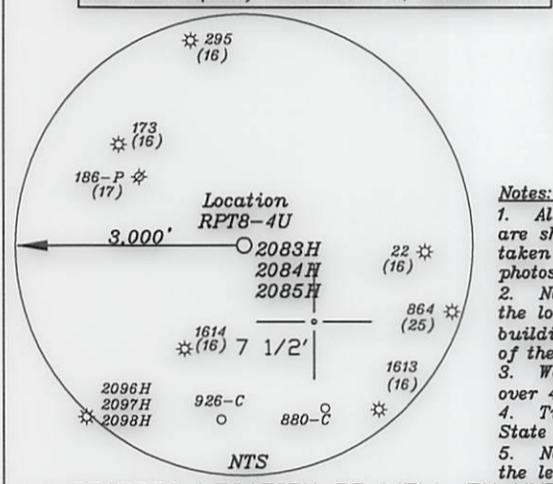


- A-Hair et al T.M. 2-2 53.31 Ac. T1-13
- B-Sherwood T.M. 2-3 14.5 Ac. T3107
- C-Parr T.M. 23-6.1 8.01 Ac. T3107A
- D-Parr T.M. 23-6 18.62 Ac. T3106
- E-Hair et al T.M. 23-5 3 Ac. T3106
- F-Hair et al T.M. 23-4 9 Ac. T3106
- G-Weekley Est. T.M. 23-27 7 Ac. T3109A2
- H-Adams T.M. 23-1 20 Ac. T3901A1
- I-Bedore T.M. 23-3 9Ac. RPT11
- J-Parr T.M. 17-54 17.43 Ac.
- K-Parr T.M. 17-55 34 Ac. T3246
- L-Williams T.M. 17-57 12.51 Ac. T3246A
- M-Weekley et al T.M. 16-34 15 Ac. T3248A
- N-Williams T.M. 17-57.3 31.22 Ac. T3246A
- O-Williams T.M. 17-57.2 29.6 Ac. T3246A
- P-Williams T.M. 17-57.1 20.47 Ac. T3246A
- Q-Hammitt et al T.M. 17-34 18.49 Ac.
- R-Nichols et al T.M. 2-19 12.5 Ac.
- S-Weekley T.M. 16-33 16.5 Ac. T3248B
- T-Wilkinson T.M. 17-33 1 Ac.
- U-Peck T.M. 17-28 5 Ac.
- V-Parr T.M. 23-7 46.5 Ac. T4002B

**Surface Hole Location**  
Geo. NAD 83-39.483102 N, 80.785987 W  
UTM NAD 83(Meters)-4370411.03 N, 518405.13 E  
UTM NAD 83(Feet)-14338590.18 N, 1700800.82 E

**Landing Point Location**  
Geo. NAD 83-39.488062 N, 80.785641 W  
UTM NAD 83(Meters)-4370961.56 N, 518433.54 E  
UTM NAD 83(Feet)-14340396.37 N, 1700894.04 E

**Bottom Hole Location**  
Geo. NAD 83-39.501976 N, 80.791599 W  
UTM NAD 83(Meters)-4372504.57 N, 517917.64 E  
UTM NAD 83(Feet)-14345458.74 N, 1699201.45 E



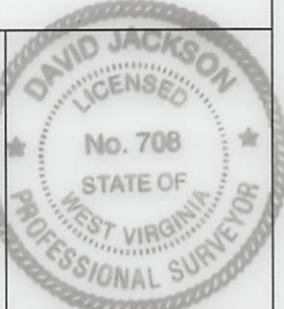
- Notes:**
- All wells within 500' of the horizontal leg are shown on this plat based upon information taken from DEP mapping, well plats & aerial photos.
  - No waters wells were found within 250' of the location. No dwelling or agricultural buildings were found within 625' of the center of the well pad.
  - Well bore paths and Top Hole location are over 400' from all lease lines.
  - Ties to wells and corners are based on State Plane Grid North-WV North Zone NAD 83.
  - No deep wells were found within 3,000' of the leg.

NUMBER	DIRECTION	DISTANCE
L1	S37°46'E	1,955'
L2	S58°26'E	2,039'
L3	N03°55'E	1,809'

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 July 14 2016  
OPERATOR'S WELL NO. RPT8 4U  
API WELL NO. \_\_\_\_\_

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

LOCATION: ELEVATION 1,246.5' WATER SHED Big Run  
DISTRICT McElroy COUNTY Tyler  
QUADRANGLE Shirley 7 1/2'

SURFACE OWNER Jack Hair et al ACREAGE 85 ac  
OIL & GAS ROYALTY OWNER Jack Hair et al 85 Ac.

LEASE NO. RPT 8  
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=11,105' TMD=17,768'  
WELL OPERATOR Jay Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda  
ADDRESS 1720 Rt. 22 East Union, NJ 07083 ADDRESS Rt. 1 Box 5 Cairo, WV 26337



***JAY-BEE OIL & GAS, INC.***

July 13, 2016

Deep Well Permitting Office  
ATTN Cindy Raines  
Office of Oil and Gas  
West Virginia Dept. of Environmental Protection  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

RE: RPT8-4U Wellbore Location Extension Exception Letter

Ms. Raines:

Jay-Bee Oil & Gas, Inc. is seeking authorization to extend drilling of the RPT8-4U (API 47-095-02330) deep well lateral, also slightly adjusting direction.

We would like to extend drilling our lateral to 410' off of our unit boundary. Extending the lateral would allow us to capture additional potential natural gas production from our unit. Due to time constraints and contractual commitments with a horizontal rig, we would like to request a speedy review and approval of this modification.

Please see the included plat, which was sent from our surveyor to your attention 7-13-2016.

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