



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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Monday, November 5, 2018
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

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

UNION, NJ 070830000

Re: Permit Modification Approval for P4S3
47-073-02573-00-00

Modification of Lateral Landing Point and Bottom Hole

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.

A blue ink signature of James A. Martin, written in a cursive style.

James A. Martin
Chief

Operator's Well Number: P4S3
Farm Name: JOHN A. SMITH & EDITH U. SMITH
U.S. WELL NUMBER: 47-073-02573-00-00
Horizontal 6A New Drill
Date Modification Issued: November 5, 2018

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

1) Well Operator: Jay-Bee Oil & Gas, Inc. 24610 Pleasants Union Ben's Run 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: P4S3 Well Pad Name: P4

3) Farm Name/Surface Owner: John & Edith Smith Public Road Access: Arvilla Rd (CR7)

4) Elevation, current ground: 982.1 Elevation, proposed post-construction: 957.2

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

(b) If Gas Shallow Deep
Horizontal

JCB
9/4/2018

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, Target Depth 5,995', 41-60' thick, 3500# pressure

8) Proposed Total Vertical Depth: 5,995'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 21,028'

11) Proposed Horizontal Leg Length: 13,786'

12) Approximate Fresh Water Strata Depths: 216'

13) Method to Determine Fresh Water Depths: API 47-073-00798

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: _____

RECEIVED
Office of Oil and Gas

OCT 22 REC'D 2018
WV Department of
Environmental Protection

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	H40	94	30'	30'	CTS 49 Cu. Ft.
Fresh Water	13 3/8	New	H40	48	300'	300'	CTS 208 Cu. Ft.
Coal							
Intermediate	8 5/8	New	J55	24	1,800'	1,800'	458 CTS
Production	5 1/2	New	P110	17	21,028'	21,028'	3,470 CF/1000' from surface
Tubing	N/A						
Liners	N/A						

JCB

9/4/2018

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	1.19
Fresh Water	13 3/8	17 1/2	.330	1,700#	1,000	Class A	1.26
Coal							
Intermediate	8 5/8	11	.264	2,950#	1,500	Class A	1.45
Production	5 1/2	7 7/8	.304	15,000#	2,500	Type 1 Cement	1.34
Tubing	N/A						
Liners	N/A						

PACKERS

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

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Office of Oil and Gas

OCT 22 REC'D 2018

WV Department of
Environmental Protection

WW-6A1
(5/13)

Operator's Well No. P4S3

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that -

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:


Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
P7019 ✓	John & Edith Smith	BB Land, LLC	12.5%	301-674
P7205 ✓	Jay-Bee Royalty	BB Land, LLC	12.5%	312-199
P7048	Ridgetop Capital IV, LP	BB Land, LLC	12.5%	294-257
P7058	Blackrock Enterprises	BB Land, LLC	12.5%	294-121
P7049 ✓	Ridgetop Capital IV, LP	BB Land, LLC	12.5%	294-257
P7218 ✓	Larry William Horner	BB Land, LLC	12.5%	310-667
APCO293 ✓	James A. Powell	BB Land, LLC	12.5%	148-558

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

 Well Operator: Jay-Bee Oil & Gas, Inc.
 By: Chris Lindsey
 Its: Office Manager

WW-6A1
(5/13)

Operator's Well No. P4S3

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
APCO 106A ✓	Mark and Kimberly Bartrug	BB Land, LLC	12.5%	318/068
Affidavit	BB Land, LLC	Jay Bee Oil and Gas, Inc.		

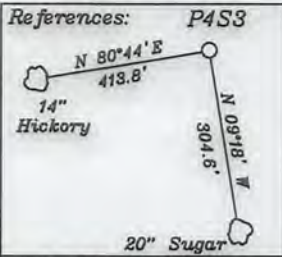
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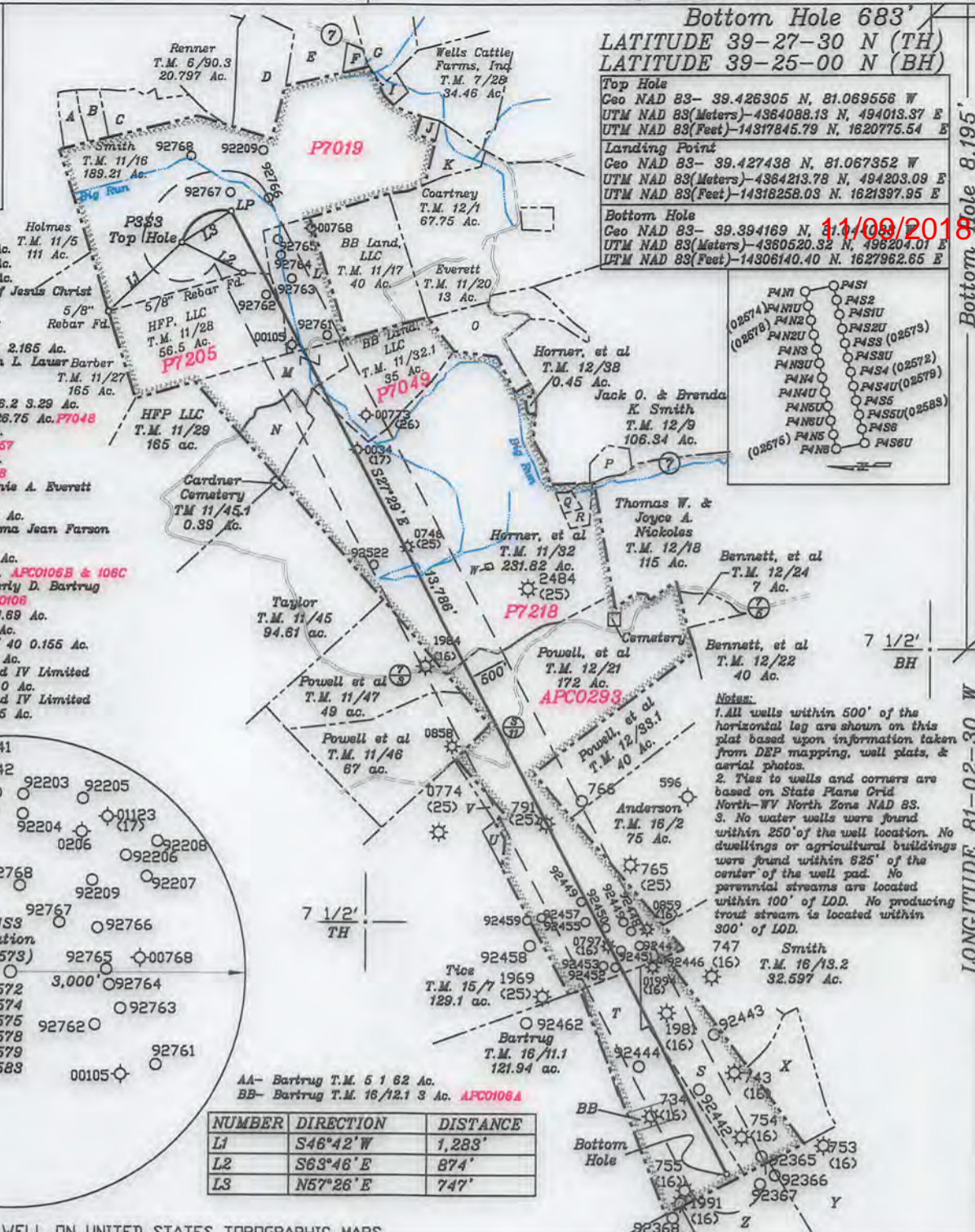
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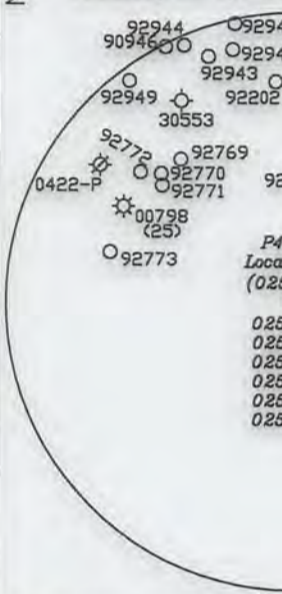
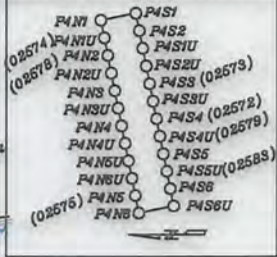

 Well Operator: Jay Bee Oil and Gas Inc
 By: Chris Lindsey
 Its: Office Manager



- A- Blake T.M. 11/12 5 Ac.
- B- Bowie T.M. 11/13 3.25 Ac.
- C- Bowie T.M. 11/14 12.855 Ac.
- D- Smith T.M. 6/108 21.48 Ac.
- E- Buzzard T.M. 6/84 10.5 Ac.
- F- Regular Baptist Church of Jesus Christ T.M. 6/108 2 Ac.
- G- Jay Bee Oil and Gas, Inc. T.M. 6/85 27.53 Ac.
- I- Jerry Corrigan T.M. 6/105 2.185 Ac.
- J- Anthony L. Lauer & Devin L. Lauer Barber T.M. 11/18.1 1.5 Ac.
- K- Anthony L. Lauer & Devin L. Lauer T.M. 11/16.2 3.29 Ac.
- L- BB Land LLC T.M. 11/18 26.76 Ac. **P7048**
- M- Jay Bee Oil and Gas, Inc. T.M. 11/30 25.14 Ac. **P7067**
- N- Jay Bee Oil and Gas, Inc. T.M. 11/31 13.11 Ac. **P7058**
- O- William G. Everett & Connie A. Everett T.M. 11/19 14.5 Ac.
- P- Jack Smith T.M. 12/13 5 Ac.
- Q- Joseph Carl Farson & Norma Jean Farson T.M. 12/11 1.329 Ac.
- R- Farson T.M. 12/12 2.858 Ac.
- S- Bartrug T.M. 16/23 41 Ac. **APC0106B & 108C**
- T- Mark W. Bartrug & Kimberly D. Bartrug T.M. 16/12 82.16 Ac. **APC0108**
- U- John R. Ties T.M. 16/28 1.89 Ac.
- V- Anderson T.M. 16/29 2.7 Ac.
- W- Horner Cemetery T.M. 12/ 40 0.155 Ac.
- X- Bartrug T.M. 16/13.1 9.13 Ac.
- Y- Heartwood Forestland Fund IV Limited Partnership T.M. 5/2 94.0 Ac.
- Z- Heartwood Forestland Fund IV Limited Partnership T.M. 5/3 21.5 Ac.



Top Hole
 Geo NAD 83- 39.426305 N, 81.069556 W
 UTM NAD 83(Meters)-4364088.13 N, 494013.37 E
 UTM NAD 83(Feet)-14317845.79 N, 1620775.54 E
 Landing Point
 Geo NAD 83- 39.427438 N, 81.067352 W
 UTM NAD 83(Meters)-4364213.78 N, 494203.09 E
 UTM NAD 83(Feet)-14318258.03 N, 1621897.95 E
 Bottom Hole
 Geo NAD 83- 39.394169 N, 81.067352 W
 UTM NAD 83(Meters)-4360520.32 N, 496204.01 E
 UTM NAD 83(Feet)-14306140.40 N, 1627962.65 E

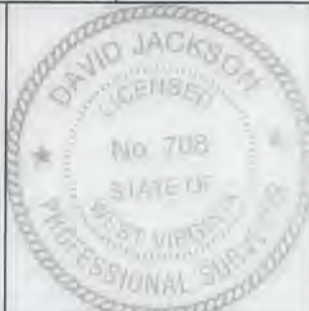


NUMBER	DIRECTION	DISTANCE
L1	S46°42'W	1,283'
L2	S63°48'E	874'
L3	N57°26'E	747'

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

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. _____ P.S. 708



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

DATE August 25, 2017
 REVISED August 31, 2018
 OPERATOR'S WELL NO. P4S3
 API WELL NO. 47-073-02573 MOD

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

LOCATION: ELEVATION 957.22' WATER SHED Big Run of Outlet Middle Island Creek (HUC-10)
 DISTRICT Union COUNTY Pleasants
 QUADRANGLE Bens Run 7 1/2'

SURFACE OWNER John A. Smith & Edith U. Smith. ACREAGE 189.21 Ac.
 OIL & GAS ROYALTY OWNER John A. Smith & Edith U. Smith. LEASE ACREAGE 189.21 Ac.
 LEASE NO. P7019

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 Marcellus ESTIMATED DEPTH TVD = 5,995'; TMD = 21,028'
 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

Bottom Hole 8,195'
 Top Hole 11,666'
 LONGITUDE 81-02-30 W