



west virginia department of environmental protection

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

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

PERMIT MODIFICATION APPROVAL

September 21, 2015

BOWYER, DAVID
12088 MIDDLE ISLAND ROAD
ALMA, WV 263200000

Re: Permit Modification Approval for API Number 9502290, Well #: SITKO #1

ADDED BIG INJUN AS A TARGET FORMATION

Oil and Gas Operator:

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.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Gene Smith" with a stylized flourish at the end.

Gene Smith
Assistant Chief of Permitting
Office of Oil and Gas

Promoting a healthy environment.

09/25/2015

95 0 2290

WW - 2B
(Rev. 8/10)

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

1) Well Operator: David Bowyer 308590 Tyler Ellsworth Porter Falls
Operator ID County District Quadrangle

2) Operator's Well Number: Sitko #1 3) Elevation: 1015

4) Well Type: (a) Oil or Gas
(b) If Gas: Production / Underground Storage _____
Deep _____ / Shallow

5) Proposed Target Formation(s): Big Injun, Gordon, Speechly, Benson Proposed Target Depth: 2010', 2500', 3000', 6240'

6) Proposed Total Depth: 5,350 Feet Formation at Proposed Total Depth: Lower Devonian

7) Approximate fresh water strata depths: 50'

8) Approximate salt water depths: 1120'

9) Approximate coal seam depths: None noted in offset wells

10) Approximate void depths, (coal, Karst, other): None noted in offset wells

11) Does land contain coal seams tributary to active mine? No

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Office of Oil and Gas
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WV Department of
Environmental Protection

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)

Drill new oil and gas well. Stimulate with nitrogen and/or slick water fracturing methods including approximate 700,000scf nitrogen per stage and/or approximate not to exceed 4,900 barrels water. (Fraq pit not to exceed 5,000Bbbls, will supplement with tanks for additional water capacity)

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	
Conductor	13-3/8"	H-40	48#	40'	40'	Grout to Surface
Fresh Water	9-5/8"	H-40	29.3#	300'	300'	To Surface
Coal	NA	NA	NA	NA	NA	NA
Intermediate	7"	H-40	20#	2000'	2000'	To Surface
Production	4-1/2"	J-55	10.5#	5300'	5300'	375 sacks, 3000' fillup
Tubing	NA	NA	NA	NA	NA	NA
Liners	NA	NA	NA	NA	NA	NA

Packers: Kind: NA
Sizes: NA
Depths Set NA

09/25/2015