

District I  
1625 N. French Dr., Hobbs, NM 88240

District II  
1301 W. Grand Avenue, Artesia, NM 88201

District III  
1000 Rio Brazos Road, Aztec, NM 87410

District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-101  
June 16, 2008

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DEC 14 2009

HOBBSOCD

Oil Conservation Division

1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN,  
PLUGBACK, OR ADD A ZONE

<sup>1</sup> Operator Name and Address Chesapeake Operating, Inc. P.O. Box 18496 Oklahoma City, OK 73154-0496		<sup>2</sup> OGRID Number 147179
		<sup>3</sup> API Number 30-025-36475
<sup>3</sup> Property Code 24402	<sup>5</sup> Property Name Boyce 15	<sup>6</sup> Well No 5
<sup>9</sup> Proposed Pool 1 Townsend, Permo-Upper Penn		<sup>10</sup> Proposed Pool 2

<sup>7</sup> Surface Location

UL or lot no B	Section 15	Township 16S	Range 35E	Lot Idn	Feet from the 330'	North/South North	Feet from the 1650'	East/West line East	County Lea
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<sup>8</sup> Proposed Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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Additional Well Information

<sup>11</sup> Work Type Code P	<sup>12</sup> Well Type Code O	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Code P	<sup>15</sup> Ground Level Elevation 3991' GR
<sup>16</sup> Multiple N	<sup>17</sup> Proposed Depth PBSD 11,365'	<sup>18</sup> Formation Permo-Upper Penn	<sup>19</sup> Contractor TBD	<sup>20</sup> Spud Date Pending

<sup>21</sup> Proposed Casing and Cement Program

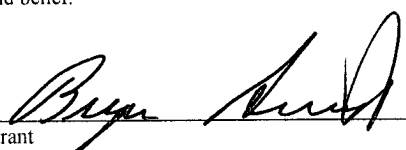

EXISTING

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	48#	449'	450 sxs	0'
11"	8 5/8"	32#	4200'	1150 sxs	0'
7 7/8"	5 1/2"	17 & 20#	11,800'	880 sxs	3900'

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Please find our work procedure to recompleat this well to the Permo-Upper Penn, NMOCD's C-102 and C-144(CLEZ) pit permit

Permit Expires 2 Years From Approval  
Date Unless Drilling Underway  
Plugback

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature 		Approved by 	
Printed name Bryan Arrant		Title PETROLEUM ENGINEER	
Title Senior Regulatory Compliance Specialist		Approval Date DEC 15 2009	Expiration Date
E-mail Address bryan.arrant@chk.com			
Date 12/11/2009	Phone (405) 935-3782	Conditions of Approval Attached <input type="checkbox"/>	

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Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102

Revised October 15, 2009

Submit one copy to appropriate

District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-36475	<sup>2</sup> Pool Code 59847	<sup>3</sup> Pool Name Townsend; Permo-Upper Penn.
<sup>4</sup> Property Code 24402	<sup>5</sup> Property Name Boyce 15	<sup>6</sup> Well Number 5
<sup>7</sup> OGRID No. 147179	<sup>8</sup> Operator Name Chesapeake Operating, Inc.	<sup>9</sup> Elevation 3991' GR

<sup>10</sup> Surface Location


UL or lot no. B	Section 15	Township 16S	Range 35E	Lot Idn	Feet from the 330'	North/South line North	Feet from the 1650'	East/West line East	County Lea
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<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16		330' FNL	1650' FEL	<b>17 OPERATOR CERTIFICATION</b> <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division</i>  Signature 12/11/2009 Date Bryan Arrant Printed Name
				<b>18 SURVEYOR CERTIFICATION</b> <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief</i>  Date of Survey Signature and Seal of Professional Surveyor  <b>Please Refer to Original Plat</b>  Certificate Number



**Boyce #5-15  
Permo-Penn and Wolfcamp Recompletion  
Lea County, NM**

**Current Wellbore Information**

TD: 11,800'    PBD: 11,365'

Casing	OD	Weight	Grade	Depth/Set	TOC
Surface	13-3/8"	48#	H-40	449'	Surface
Intermediate	8-5/8"	32#	J-55	4,200'	Surface
Production	5-1/2"	17# & 20#	L-80	11,800'	3,900'

Perfs	Top Perf	Bottom Perf	Status	SPF	Total Holes
Atoka	11,450'	11,460'	Abandoned	4	40
Atoka	11,498'	11,508'	Abandoned	4	40
Atoka	11,630'	11,640'	Abandoned	4	40

OIH	Size	Location
DV tool	NA	7,988'
CIBP w/ 35' cement	5-1/2"	11,365'

GL: 3,991'    KB: 15'    KB Height: 4,006'

**Procedure**

Hold Pre-Job Safety Assessment (PJSA) meeting prior to beginning work each morning and as required for specific operations.

1. Prep location. Check anchors and clean area for workover.
2. Rack and tally work string consisting of 11,365' (379 joints) of 2-7/8, 6.5#, L-80 tubing.
3. MIRU workover rig. ND WH. NU BOP.
4. RU wireline unit. RIH w/ bit and scraper to 11,365'. POH.
5. Test casing to 7,000# for 15 minutes to test casing integrity.
6. RU loggers and log from 11,000' to 3,800'. Run CBL, CCL, and GR. RDMO loggers.
7. Install lubricator. MU Select Fire Perforating Guns loaded w/ 28 shots @ 4 spf w/ 60 degree phasing (23 g minimum charges) and RIH. Correlate to the log ran in Step #6 and perforate the Permo-Penn as follows:

Formation	Interval	SPF	Total Shots
Permo-Penn	10,830'	4 spf	4
Permo-Penn	10,816'	4 spf	4
Permo-Penn	10,812'	4 spf	4
Permo-Penn	10,808'	4 spf	4
Permo-Penn	10,768'	4 spf	4
Permo-Penn	10,766'	4 spf	4
Permo-Penn	10,758'	4 spf	4
Total	72'		28

POOH w/ tubing and perforating guns and verify all shots fired. RDMO Wireline.

8. RD Lubricator and install frac valve. RU Treating Company and pump a total of 5,000 gallons of 15% NEFE acid dropping 42 perf balls throughout the job. Flush acid to bottom perf w/ 2% KCL. SI and wait 1 hour. See attached acid procedure.
9. RIH w/ bit to PBTD @ 11,365' to clear perfs.
10. RU frac service and frac the Permo-Penn perfs 10,758' - 10,830' (28 holes). Frac per attached procedure. (5-1/2", 17# & 20#, L-80, Internal Yield = 7,740 psi) Record ISIP-5-10-15 min pressures.
11. RU Lubricator. RU wireline and RIH and set CBP @ +/-10,458'. POH.
12. MU Select Fire Perforating Guns loaded w/ 8 shots @ 4 spf w/ 60 degree phasing (23 g minimum charges) and RIH. Correlate to the log ran in Step #6 and perforate the Wolfcamp as follows:

Formation	Interval	SPF	Total Shots
Wolfcamp	10,148'	4 spf	4
Wolfcamp	10,146'	4 spf	4
Total	2'		8

POOH w/ tubing and perforating guns and verify all shots fired. RDMO Wireline.

13. RD Lubricator and RIH w/ packer and tubing and pump a total of 5,000 gallons of 15% NEFE acid. SI and wait 1 hour. See attached acid procedure. Swab well to determine productivity and if a larger acid job is necessary. RD swab. Release packer and POH w/ tubing and packer.
14. PU bit, drill collars and workstring and DO CBP @ +/- 10,458' and clean out to PBTD @ 11,365'. Circulate hole clean. TOH.
15. TIH with production tubing and SN. Set seat nipple at 10,880' (below perfs).
16. ND BOP. NU WH. TIH with pump and rods. Fill tubing and space out pump accordingly. Verify pump action. Place well on test.
17. RDMO workover rig. Clean location.

### **Contacts**

Production Foreman  
Steve Serna  
Office: 575-391-1462  
Cell: 575-390-9053

Asset Manager  
Kim Henderson  
Office: 405-935-8583  
Cell: 405-312-1840