

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
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  
May 27, 2004

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 Samson Resources Company 200 N. Lorraine Street, Ste 1010 Midland, TX 79701		<sup>2</sup> OGRID Number 20165	
<sup>3</sup> Property Code 15995		<sup>4</sup> API Number 30-025-35662	
<sup>5</sup> Property Name State BD		<sup>6</sup> Well No. #4	
<sup>9</sup> Proposed Pool 1 Atoka		<sup>10</sup> Proposed Pool 2 Penn or Wolfcamp	

<sup>7</sup> Surface Location									
UL or lot no. H	Section 2	Township 12S	Range 33E	Lot Idn	Feet from the 1894	North/South line North	Feet from the 604	East/West line East	County Lea

<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

<sup>11</sup> Work Type Code E									
<sup>12</sup> Well Type Code O									
<sup>13</sup> Cable/Rotary									
<sup>14</sup> Lease Type Code S									
<sup>15</sup> Ground Level Elevation 4232									
<sup>16</sup> Multiple No									
<sup>17</sup> Proposed Depth									
<sup>18</sup> Formation									
<sup>19</sup> Contractor									
<sup>20</sup> Spud Date 1/21/03									
Depth to Groundwater			Distance from nearest fresh water well			Distance from nearest surface water			
Pit: Liner: Synthetic <input type="checkbox"/> _____mils thick Clay <input type="checkbox"/> Pit Volume: _____ bbls Drilling Method: Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>									
Closed-Loop System <input type="checkbox"/>									

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

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC

<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.

1. Load hole. Test casing to 500.
2. MIRU PU. ND tree. NU 5k BOP.
3. GIH w/ 6.5" bit and scraper on 2 3/8" 4.7# L80 EUE 8rd to PBD 10660.
4. Circ hole w/ 2% KCl water. POH.
5. RU WL and packoff.
6. Perf Atoka 10291 - 96 w/ 4 spf (20 holes)
7. GIH w/ 10k retv pkr and on off tool w/ 1.81 profile on 2 3/8" tubing.
8. Spot acid across perfs.
9. Set pkr @ 10190'. Test ann to 500.
10. ND BOP. NU 5k tree. (Recompletion Procedure Continued on Attached)

Permit Expires 1 Year From Approval  
Date Unless Drilling Underway

Re-Entry

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Printed name: Ken Krawietz

Title: District Engineer

E-mail Address: kkravietz@samson.com

Date: 6/21/2006

Phone: (432) 683-7063

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Expiration Date:

JUL 06 2006

Conditions of Approval Attached ☐

PETROLEUM ENGINEER

**STATE BD #4**

**Recomplete to Atoka**

**(Continue Form C-101, Item 22)**

11. Acidize Atoka 10291 - 96 w/ 2000 gal 15% NEFE at approx 4 BPM.
12. Swab test
13. If well kicks off flow test.
14. Run BHP bombs and shut in for PBU test. Evaluate for frac.
15. Kill well, ND tree. NU BOP.
16. Release pkr and POH. NU 7 1/16" frac valve and tree saver.
17. Frac Atoka 10291 - 96 w/ approx 30 M gal and 30 M# 20/40 ISP.
18. RD tree saver. Flow back.
19. Kill well. ND frac valve.
20. GIH w/ 10k retv pkr and on off tool w/ 1.81" profile.
21. Set pkr @ 10190. ND BOP. NU tree.
22. Swab well in and test.

If Atoka is not commercial, recompletion to Penn or Wolfcamp will be recommended.

No H2S

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
**District II**  
1301 W. Grand Avenue, Artesia, NM 88210  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
**District IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies  
☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-025-35662	<sup>2</sup> Pool Code 924318750	<sup>3</sup> Pool Name Hightower Bagley Atoka North
<sup>4</sup> Property Code 15995	<sup>5</sup> Property Name State BD	<sup>6</sup> Well Number 4
<sup>7</sup> OGRID No. 20165	<sup>8</sup> Operator Name Samson Resources Co.	<sup>9</sup> Elevation 4232' GR

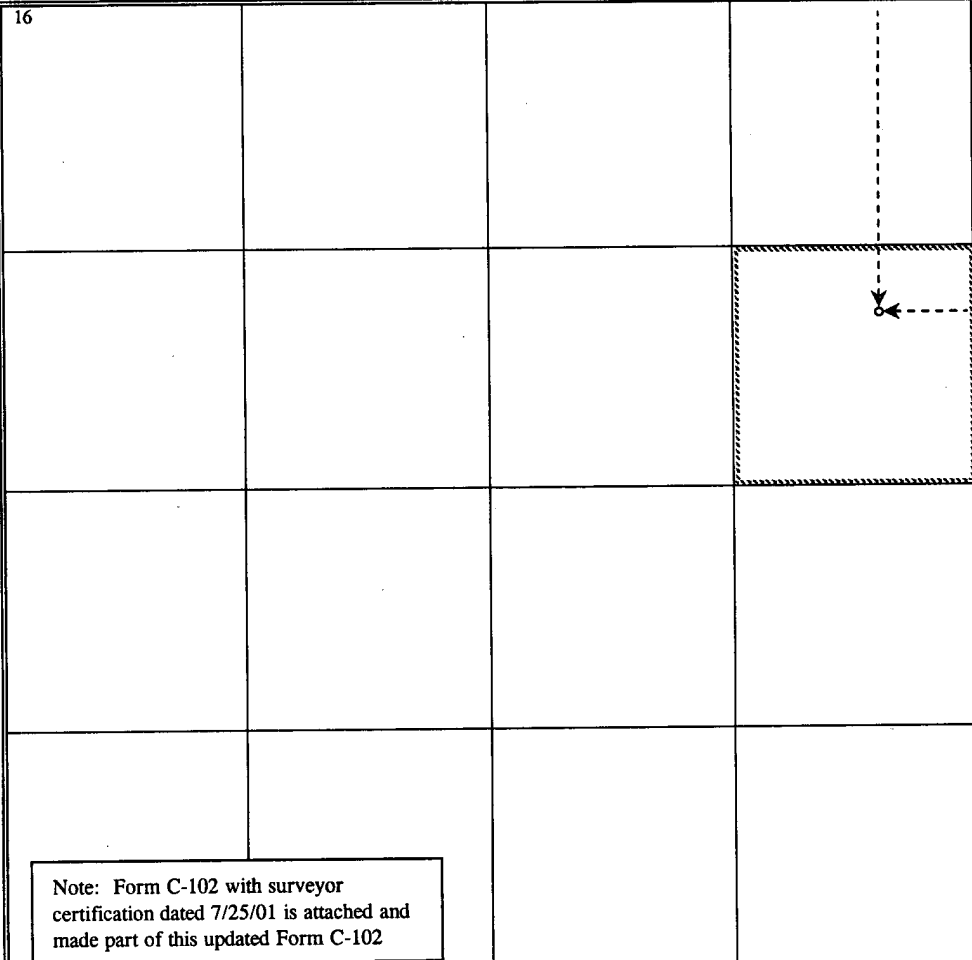

**<sup>10</sup> Surface Location**

UL or lot no. H	Section 2	Township 12S	Range 33E	Lot Idn	Feet from the 1894	North/South line North	Feet from the 604	East/West line East	County Lea
--------------------	--------------	-----------------	--------------	---------	-----------------------	---------------------------	----------------------	------------------------	---------------

**<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
<sup>12</sup> Dedicated Acres 40 ✓	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.						

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.

<div>16</div> 	<b><sup>17</sup> 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>  6/21/06 Signature _____ Date _____ R. Burditt Printed Name _____
	<b><sup>18</sup> 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: _____ Certificate Number _____

Note: Form C-102 with surveyor certification dated 7/25/01 is attached and made part of this updated Form C-102

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
**District II**  
1301 W. Grand Avenue, Artesia, NM 88210  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
**District IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-025-35662	<sup>2</sup> Pool Code 3770	<sup>3</sup> Pool Name Bagley Penn
<sup>4</sup> Property Code 15995	<sup>5</sup> Property Name State BD	<sup>6</sup> Well Number 4
<sup>7</sup> OGRID No. 20165	<sup>8</sup> Operator Name Samson Resources Co.	<sup>9</sup> Elevation 4232' GR


**<sup>10</sup> Surface Location**

UL or lot no. H	Section 2	Township 12S	Range 33E	Lot Idn	Feet from the 1894	North/South line North	Feet from the 604	East/West line East	County Lea
--------------------	--------------	-----------------	--------------	---------	-----------------------	---------------------------	----------------------	------------------------	---------------

**<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
<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.						

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.

<div>16</div>					<div><b><sup>17</sup> 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 Date 6/21/06 R Burditt Printed Name</div>
					<div><b><sup>18</sup> 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:  Certificate Number</div>

Note: Form C-102 with surveyor certification dated 7/25/01 is attached and made part of this updated Form C-102

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-025-35662		<sup>2</sup> Pool Code 97432		<sup>3</sup> Pool Name Hightower Bagley Wolfcamp North	
<sup>4</sup> Property Code 15995	<sup>5</sup> Property Name State BD			<sup>6</sup> Well Number 4	
<sup>7</sup> OGRID No. 20165	<sup>8</sup> Operator Name Samson Resources Co.			<sup>9</sup> Elevation 4232' GR	

**<sup>10</sup> Surface Location**


UL or lot no. H	Section 2	Township 12S	Range 33E	Lot Idn	Feet from the 1894	North/South line North	Feet from the 604	East/West line East	County Lea
--------------------	--------------	-----------------	--------------	---------	-----------------------	---------------------------	----------------------	------------------------	---------------

**<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
---------------	---------	----------	-------	---------	---------------	------------------	---------------	----------------	--------

<sup>12</sup> Dedicated Acres 40 /	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
---------------------------------------	-------------------------------	----------------------------------	-------------------------

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.

<sup>16</sup>				<b><sup>17</sup> OPERATOR CERTIFICATION</b> 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.  6/21/06 Signature _____ Date _____ R Burditt Printed Name _____	
				<b><sup>18</sup> SURVEYOR CERTIFICATION</b> 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. Date of Survey _____ Signature and Seal of Professional Surveyor: _____ Certificate Number _____	

Note: Form C-102 with surveyor certification dated 7/25/01 is attached and made part of this updated Form C-102

DISTRICT I  
P. O. Box 1980  
Hobbs, NM 88241-1980

State of New Mexico  
Energy, Minerals, and Natural Resources Department

Form C-102  
Revised 02-10-94  
Instructions on back

DISTRICT II  
P. O. Drawer DD  
Artesia, NM 88211-0719

OIL CONSERVATION DIVISION  
P. O. Box 2088  
Santa Fe, New Mexico 87504-2088

Submit to the Appropriate  
District Office  
State Lease - 4 copies  
Fee Lease - 3 copies

☒ AMENDED REPORT

DISTRICT III  
1000 Rio Brazos Rd.  
Aztec, NM 87410

DISTRICT IV  
P. O. Box 2088  
Santa Fe, NM 87507-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-35662		2 Pool Code 3990		3 Pool Name Bagley-Siluro Devonian					
4 Property No. 15995		5 Property Name STATE BD						6 Well Number 4	
7 OGRID No. 20165		8 Operator Name SAMSON Resources Company						9 Elevation 4232'	
10 SURFACE LOCATION									
UL or lot no. H	Section 2	Township 12 SOUTH	Range 33 EAST, N.M.P.M.	Lot Ida	Feet from the 1894'	North/South line NORTH	Feet from the 604'	East/West line EAST	County LEA
11 BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE									
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres 40		13 Joint or Infill		14 Consolidation Code		15 Order No.			
NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION									
						<b>OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature: [Signature] Printed Name: Ray Taylor Title: Regulatory Engineer Date: 10/20/03			
						<b>SURVEYOR CERTIFICATION</b> 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. Date of Survey: JULY 25, 2001 Signature and Seal of Professional Surveyor: [Signature and Seal] Certificate No. V. L. BEZNER, A.M.P.S. #7920 JOB #77757-147 SE / JCP			