

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 <b>Samson Resources Company</b> 200 N. Loraine Street, Ste 1010 Midland, TX 79701		<sup>2</sup> OGRID Number <b>20165</b>
		<sup>3</sup> API Number <b>30-025-01038</b>
<sup>4</sup> Property Code <b>15994</b>	<sup>5</sup> Property Name State C A/C 1	<sup>6</sup> Well No. #5
<sup>9</sup> Proposed Pool 1 Penn		<sup>10</sup> Proposed Pool 2 Wolfcamp

**7 Surface Location**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	2	12S	33E		660	North	1980	West	Lea

**8 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

**Additional Well Information**

<sup>11</sup> Work Type Code <b>P</b>	<sup>12</sup> Well Type Code <b>O</b>	<sup>13</sup> Cable/Rotary	<sup>14</sup> Lease Type Code <b>S</b>	<sup>15</sup> Ground Level Elevation <b>4237</b>
<sup>16</sup> Multiple <b>No</b>	<sup>17</sup> Proposed Depth	<sup>18</sup> Formation	<sup>19</sup> Contractor	<sup>20</sup> Spud Date <b>3/12/1952</b>
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: Closed-Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

**21 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. MIRU PU. ND tree. NU BOP 5k.
2. GIH w/ 6 1/8" bit and scraper on 2 3/8 4.7# L80 EUE 8rd.
3. Clean out to liner top @ 7941. Circ w/ FW or form wtr. POH.
4. GIH w/ 3 7/8" bit and scraper on 2 3/8 " tubing.
5. Clean out 4 1/2" liner to 10600'.
6. RU WL and packoff.
7. Set CIBP @ 10600'. Test to 1000
8. Dump bail 35' cmt on CIBP.
9. Perf Penn zone #1 8906 - 08, 8916 - 22
10. GIH w/ 10k retv pkr and on off tool w/ 1.81" nipple on 2 3/8.
11. If well does not go on vacuum after perforating, spot acid across perfs.

\*\*\*\*\*Continued on Attachment\*\*\*\*\*

Permit Expires 1 Year From Approval  
Date Unless Drilling Underway

Plugback

Received  
Hobbs  
000

123456

<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: kkrwietz@samson.com

Date: 10/15/2006

Phone: (432) 683-7063

**OIL CONSERVATION DIVISION**

Approved by:

*Chris Williams*

Title:

OC DISTRICT SUPERVISOR/GENERAL MANAGER

Approval Date:

Expiration Date:

**NOV 03 2006**

Conditions of Approval Attached ☐

STATE C A/C 1 #5 (30-025-01038)

Recomplete to Penn or Wolfcamp

(Continue Form C-101, Item 22)

12. Set pkr @ 8800'. Test ann to 1000.
13. Acidize.
14. Swab test.
15. If wet, RU WL and packoff.
16. Set CIBP @ 8890. Test casing to 1000.
17. Perf Penn zone #2 w/ 2 spf (24 holes)  
8789, 92, 97, 8804, 12, 15, 23, 34, 46, 52, 76, 80
18. GIH w/ 10k retv pkr and on off tool w/ 1.81" nipple on 2 3/8.
19. If well does not go on vacuum after perforating, spot acid across perfs.
20. Set pkr @ 8680'. Test ann to 1000.
21. Acidize.
22. Swab test.
23. If wet, RU WL and packoff.
24. Set CIBP @ 8775. Test casing to 1000.
25. Perf Penn zone #3 w/ 2 spf (40 holes)  
8620, 26, 52, 58, 73, 82, 90, 92, 8704, 08, 12, 15, 20, 24, 30, 34, 48, 52, 59, 64
26. GIH w/ 10k retv pkr and on off tool w/ 1.81" nipple on 2 3/8.
27. If well does not go on vacuum after perforating, spot acid across perfs.
28. Set pkr @ 8680'. Test ann to 1000.
29. Acidize
30. Swab test.
31. If wet, RU WL and packoff.
32. Set CIBP @ 8775. Test casing to 1000. Run GR CCL strip f/ PBD to 8300. Correlate to Schul CCL CNL dated 10/13/83.
33. Perf Wolfcamp w/ 2 spf, Approximately 8510-30.
34. GIH w/ 10k retv pkr and on off tool w/ 1.81" nipple on 2 3/8.
35. If well does not go on vacuum after perforating, spot acid across perfs.
36. Set pkr @ 8680'. Test ann to 1000.
37. Acidize
38. Swab test.

No H2S

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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 30-025-01038	<sup>2</sup> Pool Code 3770	<sup>3</sup> Pool Name Bagley Penn
<sup>4</sup> Property Code 15994	<sup>5</sup> Property Name State C A/C 1	<sup>6</sup> Well Number 5
<sup>7</sup> OGRID No. 20165	<sup>8</sup> Operator Name Samson Resources Co.	<sup>9</sup> Elevation 4237' GR

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

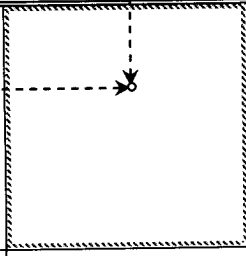
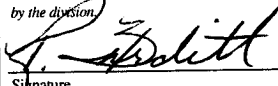
UL or lot no. C	Section 2	Township 12S	Range 33E	Lot Idn	Feet from the 660	North/South line North	Feet from the 1980	East/West line West	County Lea
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**<sup>11</sup> Bottom Hole Location If Different From Surface**

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.

<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>  Signature October 15, 2006 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: Well location survey plat with surveyor certification dated 2/26/1952 is attached and made part of this updated Form C-102

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Revised October 12, 2005  
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**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-025-01038	<sup>2</sup> Pool Code 97432	<sup>3</sup> Pool Name Hightower North (Wolfcamp)
<sup>4</sup> Property Code 15994	<sup>5</sup> Property Name State C A/C 1	<sup>6</sup> Well Number 5
<sup>7</sup> OGRID No. 20165	<sup>8</sup> Operator Name Samson Resources Co.	<sup>9</sup> Elevation 4237' GR

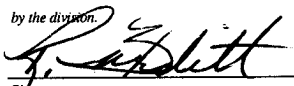
<sup>10</sup> Surface Location

UL or lot no. C	Section 2	Township 12S	Range 33E	Lot Idn	Feet from the 660	North/South line North	Feet from the 1980	East/West line West	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
<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>17 OPERATOR CERTIFICATION</div> <p>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.</p> <p> October 15, 2006</p> <p>Signature Date</p> <p>R Burditt</p> <p>Printed Name</p>
	<div>18 SURVEYOR CERTIFICATION</div> <p>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.</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p>
	<p>Note: Well location survey plat with surveyor certification dated 2/26/1952 is attached and made part of this updated Form C-102</p>
	<p>Certificate Number</p>

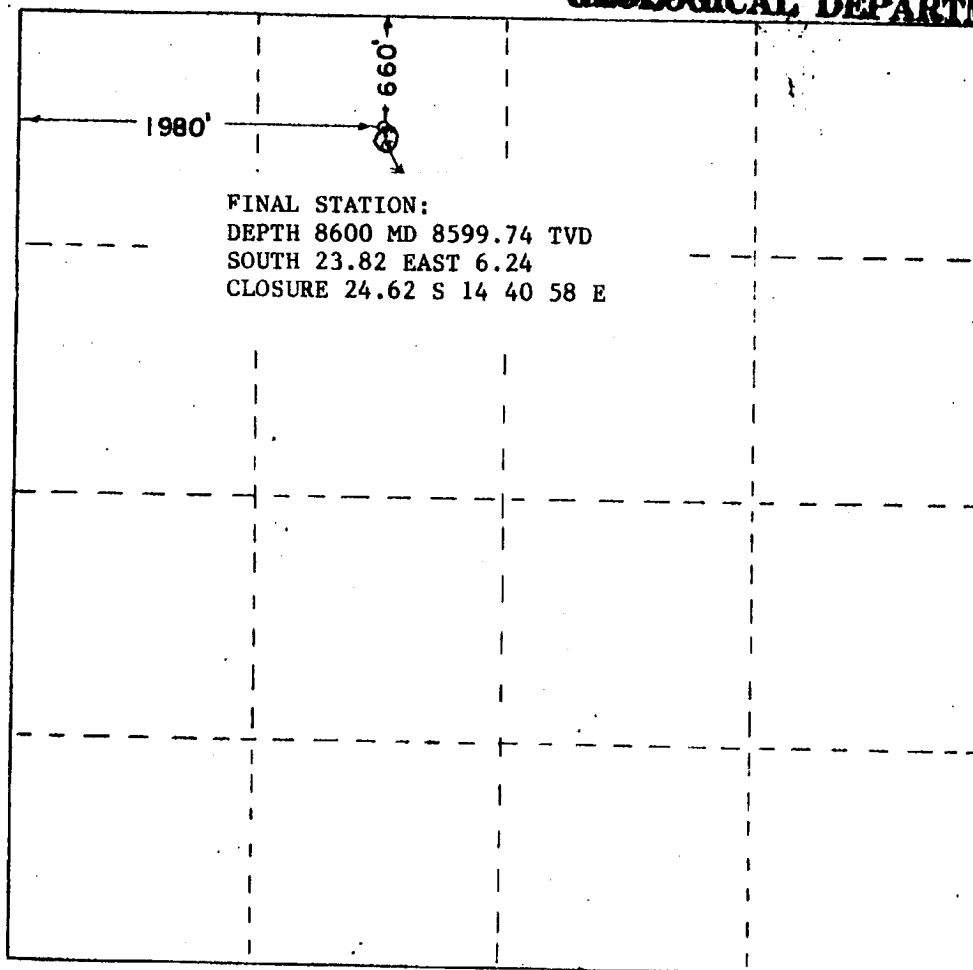
# WELL LOCATION SURVEY PLAT

OPERATOR TEXAS PACIFIC COAL & OIL CO.

LEASE STATE C ACCOUNT 1

WELL NO. 5

**TEXAS PACIFIC OIL COMPANY  
GEOLOGICAL DEPARTMENT**



SEC. 2 , TWP 12 S., RGE. 33 E., N.M.P.M.

I HEREBY CERTIFY THAT THIS PLAT WAS MADE  
FROM NOTES TAKEN IN THE FIELD BY ME AND  
THAT THE SAME IS TRUE AND CORRECT TO  
BEST OF MY KNOWLEDGE AND BELIEF.

*John W. West*  
JOHN W. WEST, PE & LS NO. 676  
FEBRUARY 26, 1952

**TEXAS PACIFIC OIL COMPANY  
GEOLOGICAL DEPARTMENT**