

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 200 N. Loraine Street, Ste 1010 Midland, TX 79701</b>		<sup>2</sup> OGRID Number 20165
		<sup>3</sup> API Number 30-025-27999
<sup>4</sup> Property Code <b>35672</b>	<sup>5</sup> Property Name State DV	<sup>6</sup> Well No. 1
<sup>9</sup> Proposed Pool 1 Grama Ridge East (Morrow)		<sup>10</sup> Proposed Pool 2 San Simon Northeast (Wolfcamp)

**<sup>7</sup> Surface Location**

UL or lot no. L	Section 34	Township 21S	Range 35E	Lot Idn	Feet from the 1980	North/South line South	Feet from the 660	East/West line West	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 E	<sup>12</sup> Well Type Code G	<sup>13</sup> Cable/Rotary	<sup>14</sup> Lease Type Code S	<sup>15</sup> Ground Level Elevation 3691
<sup>16</sup> Multiple No	<sup>17</sup> Proposed Depth 12700	<sup>18</sup> Formation Morrow	<sup>19</sup> Contractor	<sup>20</sup> Spud Date 1/28/1983
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: _____ bbs 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"/>				

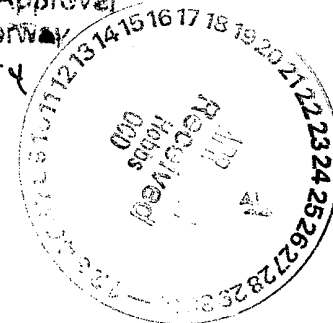
**<sup>21</sup> Proposed Casing and Cement Program**

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.

NU Wellhead  
NU BOP 5k  
Drill out plugs @ 752', 2342', 3867'  
Test csg & sqz'd perfs @ 4040-60' to 500 psi. Re-sqz if necessary  
Drill out plug @ 5588' and 7859'  
Test csg & sqz'd perfs @ 10280-360' to 500 psi. Re-sqz Bone Spring perfs if necessary  
Drill out CIBP @ 10600' and 11900'.  
Drill out CIBP @ 12250'  
GIH w/pkr and set pkr @ 12270'  
N BOP, NU tree.  
Swab well in and flow test.  
Evaluate for depletion and stimulation. (Re-entry 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: kkrwietz@samson.com

Date: 4/19/2006 Phone: (432) 683-7063

**OIL CONSERVATION DIVISION**

Approved by:

*[Signature]*

**PETROLEUM ENGINEER**

Title:

Approval Date:

**MAY 08 2006**

Expiration Date:

Conditions of Approval Attached ☐

**STATE DV #1**

**Reenter and Test Morrow  
Procedure (cont.)**

If frac is recommended, Frac Morrow 12558-66 w/20000 gal 70Q foam and 15000# 20/40 ISP.

If Morrow is commercial, set blanking plug in lower profile nipple.

ND tree. NU BOP. Release on off tool and POH.

GIH w/ RBP and treating pkr

Squeeze Atoka perfs 12050-58 w/ approx 100 sx

Drill out squeeze.

Test squeeze to 500.

Retrieve RBP

GIH w/ 2 3/8 x 2 7/8" tubing with hydrostatic packer placed at 10770'.

Latch on off tool.

Set hydrostatic pkr @ 10770.

ND BOP. NU tree.

Note: If Morrow is not commercial, set CIBP's w/ 35' cmt cap @ 12250 and 11900. Wolfcamp completion will be attempted. H2S not present.

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DISTRICT IV  
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-27999	Pool Code 77690	Pool Name Grama Ridge Morrow East (Gas)
Property Code 35672	Property Name STATE DV	Well Number 1
OGRID No. 20165	Operator Name SAMSON RESOURCES	Elevation 3634'

Surface Location

UL or lot No. L	Section 34	Township 21-S	Range 35-E	Lot Idn	Feet from the 1980	North/South line SOUTH	Feet from the 660	East/West line WEST	County LEA
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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
Dedicated Acres 320		Joint or Infill	Consolidation Code	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

	<b>OPERATOR CERTIFICATION</b> <i>I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> Signature: <u>R. Darditt</u> Date: <u>5/4/06</u> Printed Name: <u>R. Darditt</u>
	<b>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> APRIL 20, 2006 Date Surveyed: _____ MR Signature & Seal of Professional Surveyor: <u>Gary Eibson</u> 5/2/06 06.11.0682 Certificate No. GARY EIBSON 12841

**DISTRICT IV**  
1220 S. ST. FRANCES DR., SANTA FE, NM 87506

**OIL CONSERVATION DIVISION**  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

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

## WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ **AMENDED REPORT**

API Number 30-025-22989	Pool Code ✓	Pool Name Wildcat Wolfcamp
Property Code 95672	Property Name STATE DV	Well Number 1
OGRID No. 20165	Operator Name SAMSON RESOURCES	Elevation 3634'

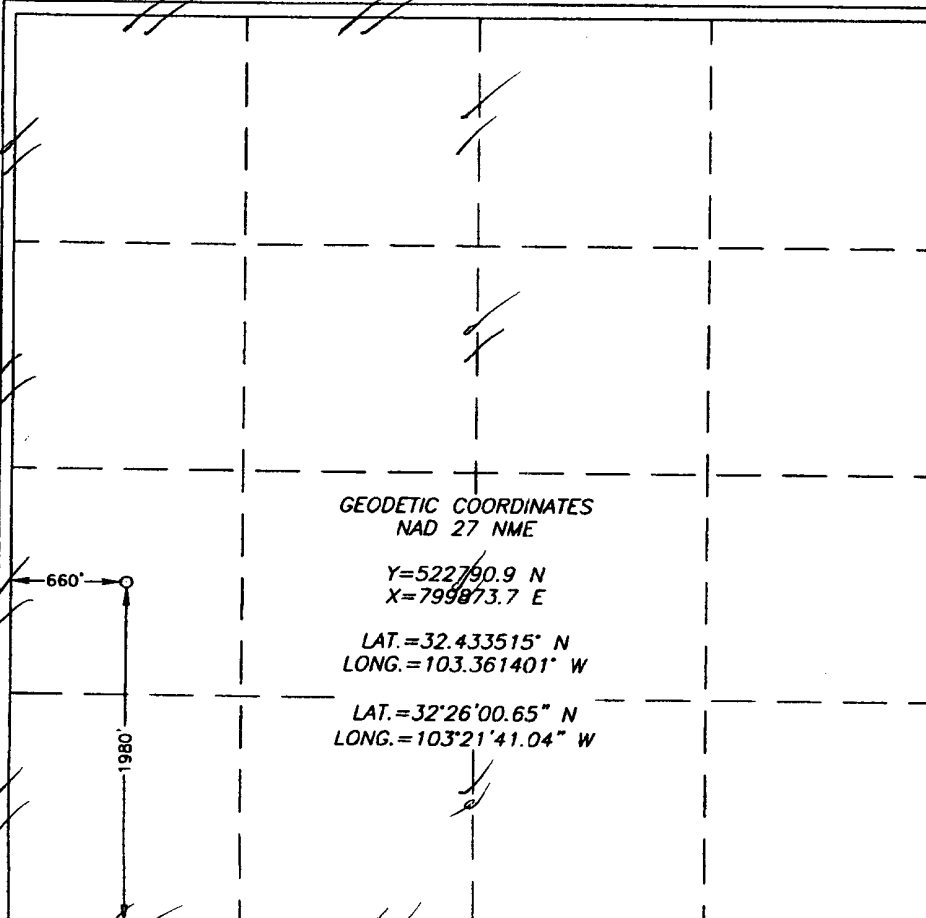
### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	34	21-S	35-E		1980	SOUTH	660	WEST	LEA

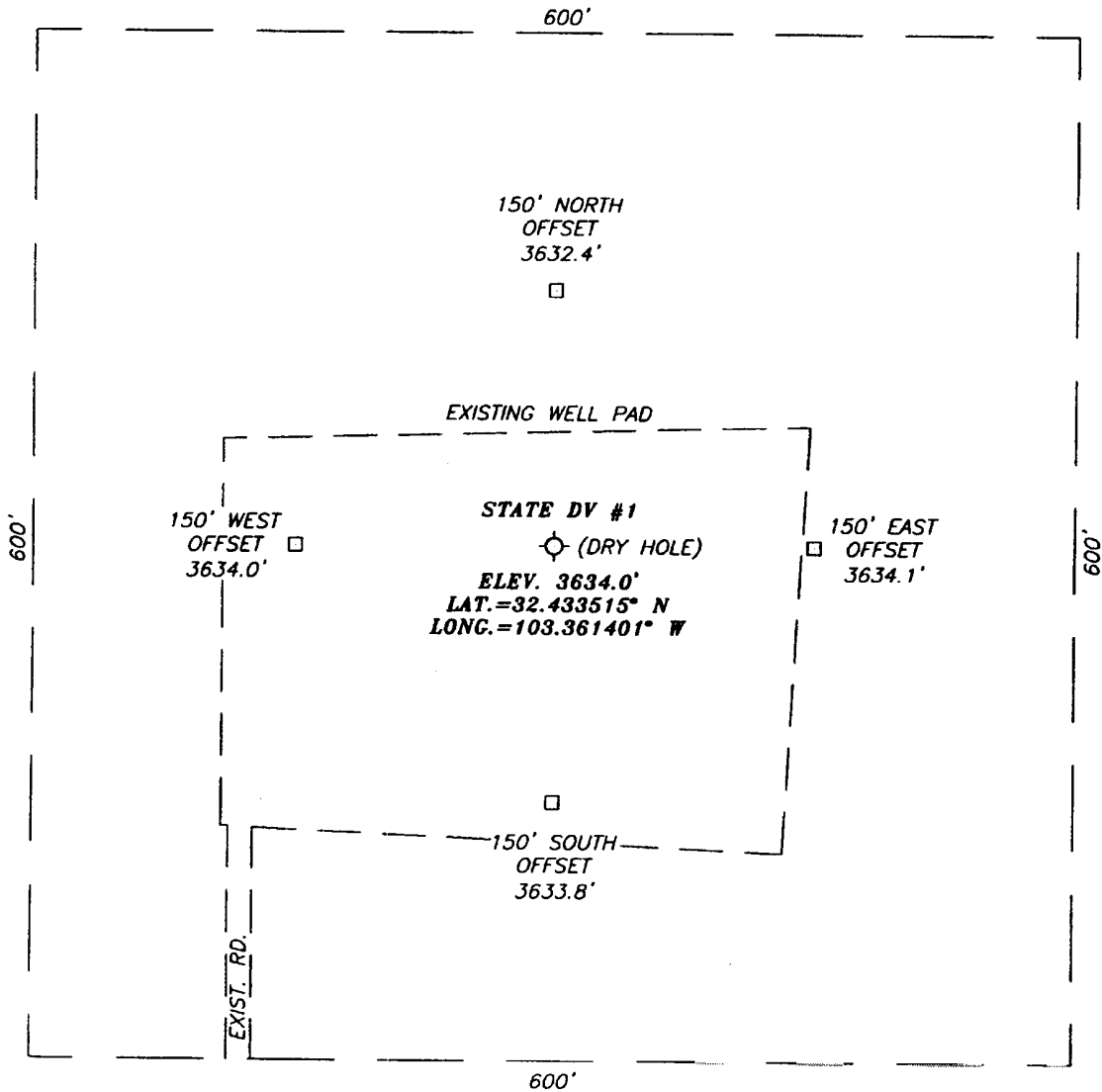
### Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 320	Joint or Infill	Consolidation Code		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

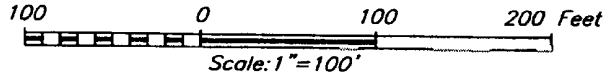
 <p style="text-align: center;">GEODETIC COORDINATES NAD 27 NME</p> <p style="text-align: center;">Y=522790.9 N X=799873.7 E</p> <p style="text-align: center;">LAT.=32.433515° N LONG.=103.361401° W</p> <p style="text-align: center;">LAT.=32°26'00.65" N LONG.=103°21'41.04" W</p> <p>Dimensions: 660' (horizontal), 1980' (vertical)</p>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p style="text-align: center;"><b>OPERATOR CERTIFICATION</b></p> <p><i>I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>Signature: <u>R. Darditt</u>      Date: <u>5/1/06</u></p> <p>Printed Name: <u>R. Darditt</u></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><b>SURVEYOR CERTIFICATION</b></p> <p><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></p> <p style="text-align: center;">APRIL 20, 2006</p> <p>Date Surveyed: _____ MR</p> <p>Signature &amp; Seal of Professional Surveyor: <u>Gary Edson</u></p> <p style="text-align: center;">06.11.0682</p> <p>Certificate No. GARY EDSON      12041</p> </div>
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SECTION 34, TOWNSHIP 21 SOUTH, RANGE 35 EAST, N.M.P.M.,  
LEA COUNTY, NEW MEXICO



**DIRECTIONS TO LOCATION**

FROM THE INTERSECTION OF CO. RD. E-21  
(DELAWARE BASIN RD.) AND CO. RD. E-21  
(WEAVER RD.), GO WEST APPROX. 0.85 MILES.  
TURN RIGHT AND GO NORTH APPROX. 0.2 MILES.  
VEER LEFT AND GO WEST APPROX. 1.0 MILES.  
TURN RIGHT AND GO NORTH APPROX. 1.8 MILES  
TO A FENCE AND TRAIL RD.. TURN LEFT AND GO  
WEST ON TRAIL RD. APPROX. 2.1 MILES TO A  
GATE. TURN HARD RIGHT (THROUGH GATE) AND GO  
EAST APPROX. 0.2 MILES. VEER LEFT AND GO  
NORTH APPROX. 0.35 MILES TO EXISTING WELL  
PAD. THIS LOCATION IS APPROX. 150 FEET EAST.



## SAMSON RESOURCES

STATE DV #1  
LOCATED 1980 FEET FROM THE SOUTH LINE  
AND 660 FEET FROM THE WEST LINE OF SECTION 34,  
TOWNSHIP 21 SOUTH, RANGE 35 EAST, N.M.P.M.,  
LEA COUNTY, NEW MEXICO.

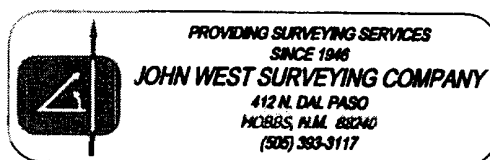


**PROVIDING SURVEYING SERVICES  
SINCE 1846  
JOHN WEST SURVEYING COMPANY  
412 N. DAL PASO  
HOBBES, N.M. 88240  
(505) 383-3117**

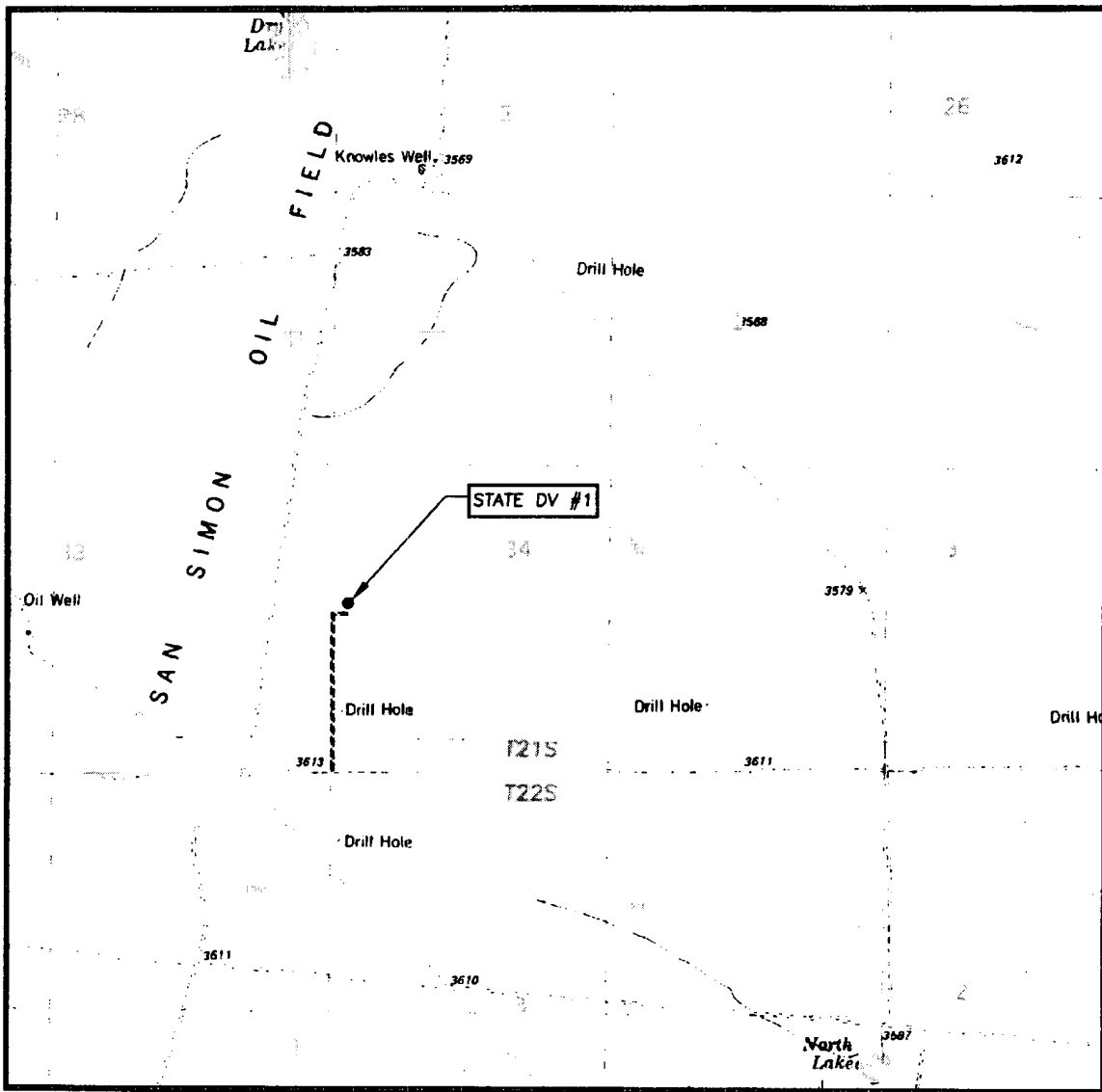
Survey Date: 04/20/06		Sheet 1 of 1 Sheets	
W.O. Number: 06.11.0682		Dr By: M.R.	Rev 1:N/A
Date: 04/26/06	Disk: CD#6	06110682	Scale: 1"=100'

The map displays a grid of 36 sections (3x12) and 36 sections (12x3). The sections are numbered 1 through 36. The map includes labels for various features: 'ST. 175', 'ST. 176', 'ST. 177', 'ST. 178', 'ST. 179', 'ST. 180', 'ST. 181', 'ST. 182', 'ST. 183', 'ST. 184', 'ST. 185', 'ST. 186', 'ST. 187', 'ST. 188', 'ST. 189', 'ST. 190', 'ST. 191', 'ST. 192', 'ST. 193', 'ST. 194', 'ST. 195', 'ST. 196', 'ST. 197', 'ST. 198', 'ST. 199', 'ST. 200'. It also shows 'SAN SIMON' and 'PEARSON' rivers, and 'STATE DV #1'.

SEC. 34 TWP. 21-S RGE. 35-E  
SURVEY \_\_\_\_\_ N.M.P.M. \_\_\_\_\_  
COUNTY LEA STATE NEW MEXICO  
DESCRIPTION 1980' FSL & 660' FWL  
ELEVATION \_\_\_\_\_ 3634' \_\_\_\_\_  
OPERATOR SAMSON RESOURCES  
LEASE \_\_\_\_\_ STATE DV \_\_\_\_\_



# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:  
OIL CENTER, N.M. - 10'

SEC. 34 TWP. 21-S RGE. 35-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 1980' FSL & 660' FWL

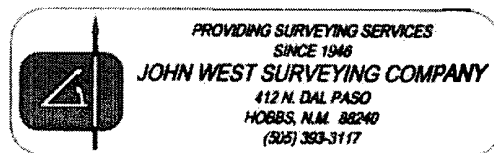
ELEVATION 3634'

OPERATOR SAMSON RESOURCES

LEASE STATE DV

U.S.G.S. TOPOGRAPHIC MAP

OIL CENTER, N.M.



Submit 3 Copies To Appropriate District  
Office  
District I  
1625 N. French Dr., Hobbs, NM 88240  
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1301 W. Grand Ave., Artesia, NM 88210  
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District IV  
1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
May 27, 2004

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO. 30-025-27999
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name State DV
8. Well Number 1
9. OGRID Number 20165
10. Pool name or Wildcat

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

2. Name of Operator  
Samson Resources Company

3. Address of Operator  
200 N. Lorraine Street, Ste 1010  
Midland, TX 79701

4. Well Location  
Unit Letter L : 1980 feet from the South line and 660 feet from the West line  
Section 34 Township 21S Range 35E NMPM Lea County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
3634' GR

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type \_\_\_\_\_ Depth to Groundwater \_\_\_\_\_ Distance from nearest fresh water well \_\_\_\_\_ Distance from nearest surface water \_\_\_\_\_

Pit Liner Thickness: \_\_\_\_\_ mil Below-Grade Tank: Volume \_\_\_\_\_ bbls; Construction Material \_\_\_\_\_

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: Use above-ground steel tanks in re-entry operations <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

State DV #1 re-entry operations will utilize above-ground steel tanks

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Ken Krawietz TITLE: District Engineer  
Type or print name Ken Krawietz E-mail address: kkrwietz@samson.com


DATE 5/5/2006  
Telephone No. (432) 683-7063

For State Use Only

APPROVED BY: PAUL E. KAUTZ  
Conditions of Approval (if any):  
ORIGINAL SIGNED BY  
PETROLEUM ENGINEER

DATE MAY 08 2006



 The sender of this message has requested a read receipt. [Click here to send a receipt.](#)

**Mull, Donna, EMNRD**

**From:** Phillips, Dorothy, EMNRD  
**To:** Mull, Donna, EMNRD  
**Cc:**  
**Subject:** RE: Financial Assurance Requirement  
**Attachments:**

**Sent:** Mon 5/8/2006 11:16 AM

Apache still has bonds pending on a change of operator that have not been submitted for shut-in wells they are acquiring. All the rest have blanket bonds and do not appear on Jane's list.

---

**From:** Mull, Donna, EMNRD  
**Sent:** Monday, May 08, 2006 9:15 AM  
**To:** Phillips, Dorothy, EMNRD  
**Cc:** Macquesten, Gail, EMNRD; Sanchez, Daniel J., EMNRD  
**Subject:** Financial Assurance Requirement

Dorothy,

Is the Financial Assurance Requirement for these Operators OK?

Samson Resources Co ( 20165)  
Apache Corp (873)  
Devon Energy Production Co LP (6137)  
Marbob Energy Corp ( 14049)  
BC Operating Inc (160825)

Please let me know. Thanks and have a nice day. Donna