

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

Form C-101  
May 27, 2004

Oil Conservation Division  
1220 S. 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 Energen Resources Corporation 3300 N. A. St., Bldg. 4, Ste. 100 Midland, TX 79705		<sup>2</sup> OGRID Number 162928
		<sup>3</sup> API Number 30- 025-01216
<sup>4</sup> Property Code 027812	<sup>5</sup> Property Name State E	<sup>6</sup> Well No. 1
<sup>9</sup> Proposed Pool 1 Wildcat; Atoka		<sup>10</sup> Proposed Pool 2

<sup>7</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
A	03	15-S	33-E		660	North	660	East	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

Additional Well Location

<sup>11</sup> Work Type Code D	<sup>12</sup> Well Type Code O	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Code S	<sup>15</sup> Ground Level Elevation 4206'
<sup>16</sup> Multiple No	<sup>17</sup> Proposed Depth 12,600'	<sup>18</sup> Formation Atoka	<sup>19</sup> Contractor	<sup>20</sup> Spud Date
Depth to ground water 105'		Distance from nearest fresh water well 200'		Distance from nearest surface water N/A
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12 mils thick Clay <input type="checkbox"/> Pit Volume 10M bbls Drilling Method: Closed-Loop System <input type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input checked="" 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
17-1/2"	13-3/8"	36#	296'	225	Surface
11"	8-5/8"	32# & 36#	3090'	1000	1745'
7-1/4"	5-1/2"	17#	9933'	600	6181'

<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.

Deepen to the Atoka. Previous attempt to plugback in the San Andres was unsuccessful. See attachment for deepening procedure.

Permit Expires 1 Year From Approval  
Date Unless Drilling Underway  
Deepen

<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 <input checked="" type="checkbox"/> a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> . Signature: <i>Carolyn Larson</i> Printed name: Carolyn Larson Title: Regulatory Analyst E-mail Address: clarson@energen.com Date: 3-2-06 Phone: (432) 684-3693		<b>OIL CONSERVATION DIVISION</b> Approved by: <i>[Signature]</i> Title: PETROLEUM ENGINEER Approval Date: MAR 07 2006 Expiration Date: Conditions of Approval: Attached <input type="checkbox"/>	
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# ***ENERGEN RESOURCES CORPORATION***

## **State E #1**

660' FNL and 660' FEL  
Sec 3, T-15-S, R-33-E  
Lea, Co. NM  
Saunders Atoka Field  
Atoka Deepening Procedure

1. MIRU Pulling Unit
2. Install BOPE
3. Drill out retainer at 4750' and through squeezed San Andres perfs. Pressure test casing as each individually squeezed San Andres perfed intervals is drilled out to 500 psi.
4. Continue in hole to CIBP at 9498'. Drill out CIBP. RIH to cement at 9680' Drill out cement and CIBP at 9700'.
5. Continue in hole to PBTD of 9910'. POOH
6. RIH w/cement retainer and set at 9680'
7. Cement squeeze Permo Penn perfs
8. RIH w/cement retainer and set at 9500'.
9. Cement squeeze Permo Penn perfs.
10. Drill out cement retainer and cement through Permo Penn perfs. Pressure test squeeze to 500 psi. Continue in hole and clean out to TD.
11. RD pulling unit.
12. RU 24 hour pulling unit.
13. Drill new formation from 9933 to 12600'.
14. Circulate hole clean.
15. Run logs
16. RIH and circulate hole
17. RIH w/2-7/8" liner.
18. Cement liner per service company recommendation
19. Sting out of liner
20. RIH and clean off top off liner. Pressure test liner top.

# ***ENERGEN RESOURCES CORPORATION***

## **State E #1**

660' FNL and 660' FEL  
Sec 3, T-15-S, R-33-E  
Lea, Co. NM  
Saunders Atoka Field  
Atoka Deepening Procedure

21. RIH and clean out to PBTD.
22. RIH w/3-1/2" workstring and sting into liner top.
23. RIH with wireline. Perforate Atoka based on open hole logs.
24. RU stimulation co.
25. Breakdown perfs.
26. Fracture stimulate well per service co recommendation
27. Flow back well.
28. Run bottom hole pressure buildup
29. RU slickline and set blanking plug in 2-7/8" liner.
30. Bleed off tubing pressure and load hole with 2% KCl water.
31. Pull 3-1/2" workstring out of well.
32. RIH with 2-7/8" tubing and sting into liner top.
33. Pressure test tubing and liner for liner seal.
34. Remove BOPE and install wellhead.
35. RU slickline and pull blanking plug.
36. Place well on production.

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

State of New Mexico  
Energy, Minerals & Natural Resources

Form C-102  
Revised August 15, 2000

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

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 30-025-01216	<sup>2</sup> Pool Code <del>96196</del> ✓	<sup>3</sup> Pool Name Wildcat Saunders; Atoka
<sup>4</sup> Property Code 027812	<sup>5</sup> Property Name State E	<sup>6</sup> Well Number 1
<sup>7</sup> OGRID No. 162928	<sup>8</sup> Operator Name Energen Resources Corporation	<sup>9</sup> Elevation 4602'

<sup>10</sup> Surface Location

UL or lot no. A	Section 03	Township 15-S	Range 33-E	Lot. Idn	Feet from the 660	North/South line North	Feet from the 660	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

<sup>16</sup>				<div>660' 660'</div>	<sup>17</sup> OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>
					Signature Carolyn Larson
					Printed Name Regulatory Analyst
					Title 3-2-06
					Date
					<sup>18</sup> SURVEYOR CERTIFICATION <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

 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 3/6/2006 11:40 AM

Okay

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**From:** Mull, Donna, EMNRD  
**Sent:** Monday, March 06, 2006 11:12 AM  
**To:** Phillips, Dorothy, EMNRD  
**Subject:** Financial Assurance Requirement

Dorothy, These operators have APD intent to Drill, Deepen, Re-Entry:

Paladin Energy Corp (164070)  
Energen Resources Corp (162928)  
XTO Energy Inc (5380)  
Northstar Operating Co (152527)  
Yates Petroleum Corp (25575)  
Manzano Oil Corp (13954)

What is their standing on Financial Assurance Requirement?

Please let me know. Thanks Donna