

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO 1004-0137  
Expires March 31, 2007

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

RECEIVED

MAR 05 2008

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

2. Name of Operator

Energen Resources Corporation

Bureau of Land Management  
Farmington Field Office

3a. Address

2198 Bloomfield Highway, Farmington, NM 87401

3b. Phone No (include area code)

505.325.6800

4. Location of Well (Footage, Sec., T, R., M., or Survey Description)

1310 FSL, 1690 FWL, Sec.18, T30N, R04W  
NE/SW

5. Lease Serial No.

NMSE 079485A

6. If Indian, Allottee or Tribe Name

BLM CONS. DIV.

7. If Unit or CA/Agreement, Name and/or No.

DIST. 3

8. Well Name and No.

San Juan 30-4 Unit #103

9. API Well No

30-039-27022

10. Field and Pool, or Exploratory Area

Basin Fruitland Coal

11. County or Parish, State

Rio Arriba

NM

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

## TYPE OF SUBMISSION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice

## TYPE OF ACTION

☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Fracture Treat☐ New Construction☐ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☒ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☐ Other

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Energen Resources would like to re-complete the San Juan 30-4 Unit #103 by:

\*Set a whipstock at 3901' TVD and mill a window in the 7" intermediate casing from 3883'-3895' TVD.

\*Directionally drill a curve and land in the Fruitland Coal at 4105' TVD, 4225' MD.

\*Directionally drill a lateral in the SW / 4 of Section 18 to a MD of 5548' MD.

\*Line the lateral with a 4 1/2" EJ, 11.6 ppf, J-55 pre-perforated liner. The liner will consist of blank joints from 3895' - 4225' MD (3895' - 4105' TVD). Pre-perforated liner from 4225' MD - 5548' MD (4105' TVD). A closed loop fluid system will be used. A 3000 psi BOP will be used, but working pressure will be 1500 psi. A 2000 psi choke manifold will be used in conjunction with the BOP stack described.

Attached are directional plans and a revised C-102.

Hold C104

for Directional Survey  
and "As Drilled" plat14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

Nathan Smith

Title

Drilling Engineer

Date

03/04/2008

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Office

Date

MAR 05 2008

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOCD

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 30-039-27022	<sup>2</sup> Pool Code 71629	<sup>3</sup> Pool Name Basin Fruitland Coal
<sup>4</sup> Property Code 21994	<sup>5</sup> Property Name San Juan 30-4 unit	<sup>6</sup> Well Number #103
<sup>7</sup> OGRID No. 162928	<sup>8</sup> Operator Name Energen Resources Corporation	<sup>9</sup> Elevation 7408' GL

<sup>10</sup> Surface Location

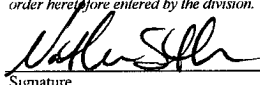
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	18	30N	4W		1310	South	1690	West	Rio Arriba

<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
K	18	30N	4W		2530	South	760	West	Rio Arriba

<sup>12</sup> Dedicated Acres	<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> LOT 1					<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, 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>  3/03/2008 Signature Date Nathan Smith Printed Name
LOT 2					
LOT 3	BHL 760' 2530'	18		17	<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> March 22, 2002 Date of Survey Signature and Seal of Professional Surveyor: Original Survey Conducted and Recorded By Jason C. Edwards
LOT 4	SHL 1690' 1310'				15269 Certificate Number

# **Energen Resources**

**SJ BR - SE S18, T30N, R4W**

**San Juan 30-4 Unit #103**

**San Juan 30-4 Unit #103 ST**

**Preliminary Plan**

**Plan: Plan #1**

## **Planned Wellpath**

**04 March, 2008**

**Project: SJ BR - SE S18, T30N, R4W**  
**Site: San Juan 30-4 Unit #103**  
**Well: San Juan 30-4 Unit #103 ST**  
**Wellbore: Preliminary Plan**  
**Plan: Plan #1 (San Juan 30-4 Unit #103 ST/Preliminary Plan)**

**PROJECT DETAILS: SJ BR - SE S18, T30N, R4W**

**Geodetic System: US State Plane 1983**  
**Datum: North American Datum 1983**  
**Ellipsoid: GRS 1980**  
**Zone: New Mexico Central Zone**

**System Datum: Mean Sea Level**

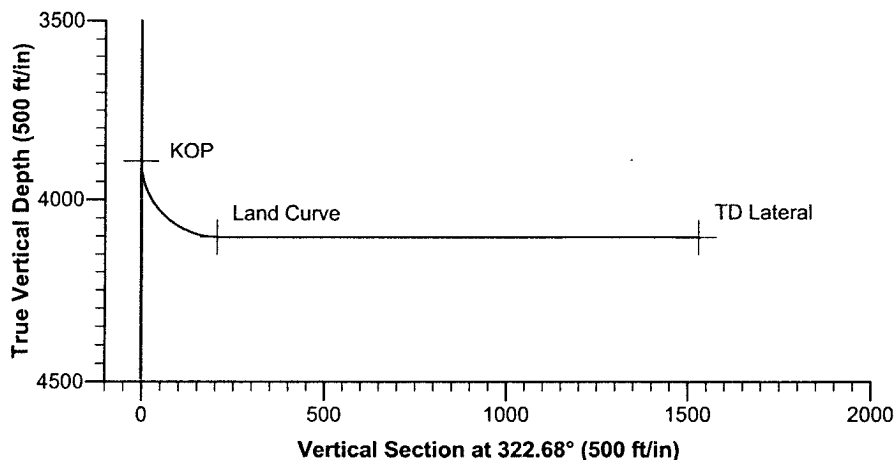
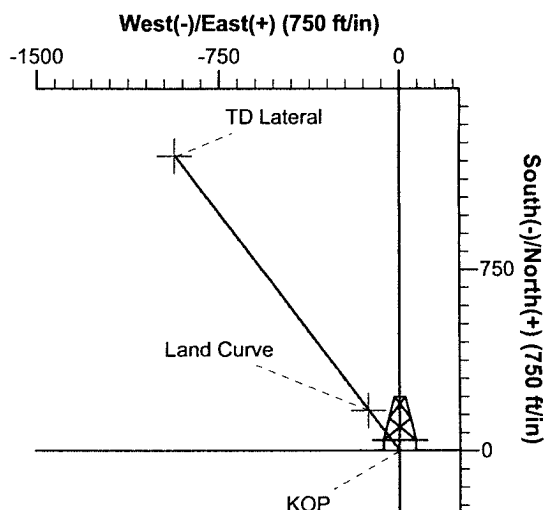


Azimuths to True North  
Magnetic North: 9.65°

Magnetic Field  
Strength: 51310.8snT  
Dip Angle: 63.89°  
Date: 3/4/2008  
Model: IGRF200510

**SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3895.0	0.00	0.00	3895.0	0.0	0.0	0.00	0.00	0.0	KOP
3	4224.9	90.00	322.68	4105.0	167.0	-127.3	27.28	322.68	210.0	Land Curve
4	5548.8	90.00	322.68	4105.0	1219.9	-930.0	0.00	0.00	1534.0	TD Lateral



# Energen

## Planned Wellpath



<b>Company:</b>	Energen Resources	<b>Local Co-ordinate Reference:</b>	Well San Juan 30-4 Unit #103 ST
<b>Project:</b>	SJ BR - SE S18, T30N, R4W	<b>TVD Reference:</b>	KB @ 7420.0ft (Drilling Rig)
<b>Site:</b>	San Juan 30-4 Unit #103	<b>MD Reference:</b>	KB @ 7420.0ft (Drilling Rig)
<b>Well:</b>	San Juan 30-4 Unit #103 ST	<b>North Reference:</b>	True
<b>Wellbore:</b>	Preliminary Plan	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Plan #1	<b>Database:</b>	EDM 2003.16 Single User Db

<b>Project</b>	SJ BR - SE S18, T30N, R4W		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	New Mexico Central Zone		

<b>Site</b>	San Juan 30-4 Unit #103		
<b>Site Position:</b>		<b>Northing:</b>	2,113,421.04 ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	1,626,918.30 ft
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	36° 48' 29.000 N
		<b>Longitude:</b>	106° 17' 46.000 W
		<b>Grid Convergence:</b>	-0.03 °

<b>Well</b>	San Juan 30-4 Unit #103 ST		
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>
<b>Position Uncertainty</b>	0.0 ft	<b>Wellhead Elevation:</b>	7,408.0 ft
		<b>Ground Level:</b>	7,408.0 ft

<b>Wellbore</b>	Preliminary Plan				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>	<b>Dip Angle</b>	<b>Field Strength</b>
	IGRF200510	3/4/2008	(°)	(°)	(nT)
			9.65	63.89	51,311

<b>Design</b>	Plan #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE		<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	322.68	

<b>Survey Tool Program</b>	Date 3/4/2008				
<b>From</b>	<b>To</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
(ft)	(ft)				
0.0	5,548.8	Plan #1 (Preliminary Plan)	MWD	MWD - Standard	

MD (ft)	TVD (ft)	Inc. (°)	Azi (°)	Build (°/100ft)	V. Sec (ft)	N/S (ft)	E/W (ft)
0.0	0.0	0.00	0.00	0.00	0.0	0.0	0.0
100.0	100.0	0.00	0.00	0.00	0.0	0.0	0.0
200.0	200.0	0.00	0.00	0.00	0.0	0.0	0.0
300.0	300.0	0.00	0.00	0.00	0.0	0.0	0.0
400.0	400.0	0.00	0.00	0.00	0.0	0.0	0.0
500.0	500.0	0.00	0.00	0.00	0.0	0.0	0.0
600.0	600.0	0.00	0.00	0.00	0.0	0.0	0.0
700.0	700.0	0.00	0.00	0.00	0.0	0.0	0.0
800.0	800.0	0.00	0.00	0.00	0.0	0.0	0.0
900.0	900.0	0.00	0.00	0.00	0.0	0.0	0.0
1,000.0	1,000.0	0.00	0.00	0.00	0.0	0.0	0.0
1,100.0	1,100.0	0.00	0.00	0.00	0.0	0.0	0.0

**Energen**  
Planned Wellpath



**Company:** Energen Resources  
**Project:** SJ BR - SE S18, T30N, R4W  
**Site:** San Juan 30-4 Unit #103  
**Well:** San Juan 30-4 Unit #103 ST  
**Wellbore:** Preliminary Plan  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well San Juan 30-4 Unit #103 ST  
**TVD Reference:** KB @ 7420.0ft (Drilling Rig)  
**MD Reference:** KB @ 7420.0ft (Drilling Rig)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Single User Db

**Planned Survey**

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	Build (°/100ft)	V. Sec (ft)	N/S (ft)	E/W (ft)
1,200.0	1,200.0	0.00	0.00	0.00	0.0	0.0	0.0
1,300.0	1,300.0	0.00	0.00	0.00	0.0	0.0	0.0
1,400.0	1,400.0	0.00	0.00	0.00	0.0	0.0	0.0
1,500.0	1,500.0	0.00	0.00	0.00	0.0	0.0	0.0
1,600.0	1,600.0	0.00	0.00	0.00	0.0	0.0	0.0
1,700.0	1,700.0	0.00	0.00	0.00	0.0	0.0	0.0
1,800.0	1,800.0	0.00	0.00	0.00	0.0	0.0	0.0
1,900.0	1,900.0	0.00	0.00	0.00	0.0	0.0	0.0
2,000.0	2,000.0	0.00	0.00	0.00	0.0	0.0	0.0
2,100.0	2,100.0	0.00	0.00	0.00	0.0	0.0	0.0
2,200.0	2,200.0	0.00	0.00	0.00	0.0	0.0	0.0
2,300.0	2,300.0	0.00	0.00	0.00	0.0	0.0	0.0
2,400.0	2,400.0	0.00	0.00	0.00	0.0	0.0	0.0
2,500.0	2,500.0	0.00	0.00	0.00	0.0	0.0	0.0
2,600.0	2,600.0	0.00	0.00	0.00	0.0	0.0	0.0
2,700.0	2,700.0	0.00	0.00	0.00	0.0	0.0	0.0
2,800.0	2,800.0	0.00	0.00	0.00	0.0	0.0	0.0
2,900.0	2,900.0	0.00	0.00	0.00	0.0	0.0	0.0
3,000.0	3,000.0	0.00	0.00	0.00	0.0	0.0	0.0
3,100.0	3,100.0	0.00	0.00	0.00	0.0	0.0	0.0
3,200.0	3,200.0	0.00	0.00	0.00	0.0	0.0	0.0
3,300.0	3,300.0	0.00	0.00	0.00	0.0	0.0	0.0
3,400.0	3,400.0	0.00	0.00	0.00	0.0	0.0	0.0
3,500.0	3,500.0	0.00	0.00	0.00	0.0	0.0	0.0
3,600.0	3,600.0	0.00	0.00	0.00	0.0	0.0	0.0
3,700.0	3,700.0	0.00	0.00	0.00	0.0	0.0	0.0
3,800.0	3,800.0	0.00	0.00	0.00	0.0	0.0	0.0
3,895.0	3,895.0	0.00	0.00	0.00	0.0	0.0	0.0
<b>KOP</b>							
3,900.0	3,900.0	1.36	322.68	27.28	0.1	0.0	0.0
3,920.0	3,919.9	6.82	322.68	27.28	1.5	1.2	-0.9
3,940.0	3,939.7	12.28	322.68	27.28	4.8	3.8	-2.9
3,960.0	3,959.0	17.73	322.68	27.28	10.0	7.9	-6.0
3,980.0	3,977.7	23.19	322.68	27.28	17.0	13.5	-10.3
4,000.0	3,995.7	28.65	322.68	27.28	25.7	20.4	-15.6
4,020.0	4,012.7	34.10	322.68	27.28	36.1	28.7	-21.9
4,040.0	4,028.7	39.56	322.68	27.28	48.1	38.3	-29.2
4,060.0	4,043.5	45.02	322.68	27.28	61.6	49.0	-37.3
4,080.0	4,057.0	50.47	322.68	27.28	76.4	60.7	-46.3
4,100.0	4,069.0	55.93	322.68	27.28	92.4	73.5	-56.0
4,120.0	4,079.4	61.39	322.68	27.28	109.4	87.0	-66.3
4,140.0	4,088.1	66.85	322.68	27.28	127.4	101.3	-77.2
4,160.0	4,095.1	72.30	322.68	27.28	146.2	116.2	-88.6
4,180.0	4,100.2	77.76	322.68	27.28	165.5	131.6	-100.3

# Energen

## Planned Wellpath



**Company:** Energen Resources  
**Project:** SJ BR - SE S18, T30N, R4W  
**Site:** San Juan 30-4 Unit #103  
**Well:** San Juan 30-4 Unit #103 ST  
**Wellbore:** Preliminary Plan  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well San Juan 30-4 Unit #103 ST  
**TVD Reference:** KB @ 7420.0ft (Drilling Rig)  
**MD Reference:** KB @ 7420.0ft (Drilling Rig)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Single User Db

### Planned Survey

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	Build (°/100ft)	V. Sec (ft)	N/S (ft)	E/W (ft)
4,200.0	4,103.5	83.22	322.68	27.28	185.2	147.3	-112.3
4,220.0	4,104.9	88.67	322.68	27.28	205.1	163.1	-124.4
4,224.9	4,105.0	90.00	322.68	27.28	210.0	167.0	-127.3
<b>Land Curve</b>							
4,300.0	4,105.0	90.00	322.68	0.00	285.1	226.8	-172.9
4,400.0	4,105.0	90.00	322.68	0.00	385.1	306.3	-233.5
4,500.0	4,105.0	90.00	322.68	0.00	485.1	385.8	-294.1
4,600.0	4,105.0	90.00	322.68	0.00	585.1	465.3	-354.7
4,700.0	4,105.0	90.00	322.68	0.00	685.1	544.9	-415.3
4,800.0	4,105.0	90.00	322.68	0.00	785.1	624.4	-476.0
4,900.0	4,105.0	90.00	322.68	0.00	885.1	703.9	-536.6
5,000.0	4,105.0	90.00	322.68	0.00	985.1	783.5	-597.2
5,100.0	4,105.0	90.00	322.68	0.00	1,085.1	863.0	-657.8
5,200.0	4,105.0	90.00	322.68	0.00	1,185.1	942.5	-718.5
5,300.0	4,105.0	90.00	322.68	0.00	1,285.1	1,022.1	-779.1
5,400.0	4,105.0	90.01	322.68	0.00	1,385.1	1,101.6	-839.7
5,500.0	4,105.0	90.01	322.68	0.00	1,485.1	1,181.1	-900.3
5,548.8	4,105.0	90.00	322.68	0.00	1,534.0	1,219.9	-930.0
<b>TD Lateral</b>							

### Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Land Curve - plan hits target - Point	0.00	0.00	4,105.0	167.0	-127.3	2,113,588.11	1,626,791.08	36° 48' 30.651 N	106° 17' 47.566 W
TD Lateral - plan hits target - Point	0.00	0.00	4,105.0	1,219.9	-930.0	2,114,641.39	1,625,988.89	36° 48' 41.063 N	106° 17' 57.437 W
KOP - plan hits target - Point	0.00	0.00	3,895.0	0.0	0.0	2,113,421.04	1,626,918.30	36° 48' 29.000 N	106° 17' 46.000 W

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_