

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires July 31, 2010

RECEIVED

AUG 05 2008

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.

Bureau of Land Management  
Farmington Field Office

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Energen Resources Corporation

3a. Address

2010 Afton Place, Farmington, NM 87401

3b. Phone No. (include area code)

(505) 325-6800

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

540 FSL, 985 FWL 25 - 32N-6W

5. Lease Serial No.

SF081181

6. If Indian, Allottee or Tribe Name

nt

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

San Juan 32-5 Unit

8. Well Name and No.

San Juan 32-5 Unit 104

NP

9. API Well No.

30-039-24290

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

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 32-5 Unit NP #104 as follows:

\*Set a plug and whipstock at 2849' TVD and mill a window from 2849' - 2837'.

\*Drill a curve and horizontal lateral to a MD of 5503' (3055' TVD) with a BHL of 2540 FSL, 2540 FWL.

\*Line the lateral with a perforated 4 1/2", 11.60 ppf, J-55 LTC liner string.

Attached is a revised C-102 and directional plan depicting this recompleation.

A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOCD FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOCD PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS

Hold C104

for Directional Survey  
and "As Drilled" plat

RCVD AUG 11 '08  
OIL CONS. DIV.

PA  
NOTIFY AZTEC OCD 24 HRS.  
PRIOR TO CASING & CEMENT

DIST. 3

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

Nathan Smith

Title Drilling Engineer

Signature

Date 8/5/08

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

AUG 07 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.

Office

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 30-039-24290	<sup>2</sup> Pool Code 71629	<sup>3</sup> Pool Name Basin Fruitland Coal
<sup>4</sup> Property Code	<sup>5</sup> Property Name San Juan 32-5 Unit NP	<sup>6</sup> Well Number #104
<sup>7</sup> OGRID No. 162928	<sup>8</sup> Operator Name Energen Resources Corporation	<sup>9</sup> Elevation 6411' GL

<sup>10</sup> Surface Location

UL or lot no. M	Section 25	Township 32N	Range 6W	Lot Idn	Feet from the 540	North/South line South	Feet from the 985	East/West line West	County Rio Arriba
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<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no. K	Section 25	Township 32N	Range 6W	Lot Idn	Feet from the 2540	North/South line South	Feet from the 2540	East/West line West	County Rio Arriba
<sup>12</sup> Dedicated Acres 320.00 E/2	<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.

	<p><sup>16</sup></p>	<p><sup>17</sup> <b>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</p> <p><i>Nathan Smith</i> 8/4/2008 Signature Date</p> <p>Nathan Smith Printed Name</p>
	<p><sup>18</sup> <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.</p> <p>June 2, 1988 Date of Survey</p> <p>Signature and Seal of Professional Surveyor Original Survey Conducted and Recorded By R. Howard Daggett</p>	<p>9679 Certificate Number</p>

# **SJ BR**

**SW Sec 25, T32N, R6W**

**Eul Canyon**

**San Juan 32-5 Unit NP #104**

**Proposed Sidetrack**

**Plan: Plan #1**

## **Planned Wellpath**

**05 August, 2008**

**Project: SW Sec 25, T32N, R6W**  
**Site: Eul Canyon**  
**Well: San Juan 32-5 Unit NP #104**  
**Wellbore: Proposed Sidetrack**  
**Plan: Plan #1 (San Juan 32-5 Unit NP #104/Proposed Sidetrack)**

**PROJECT DETAILS: SW Sec 25, T32N, R6W**

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

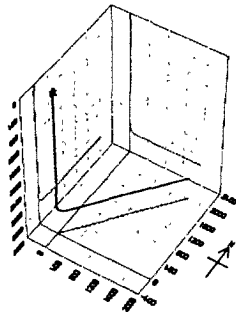
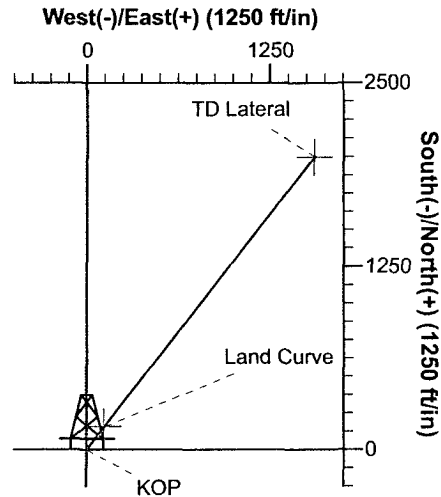
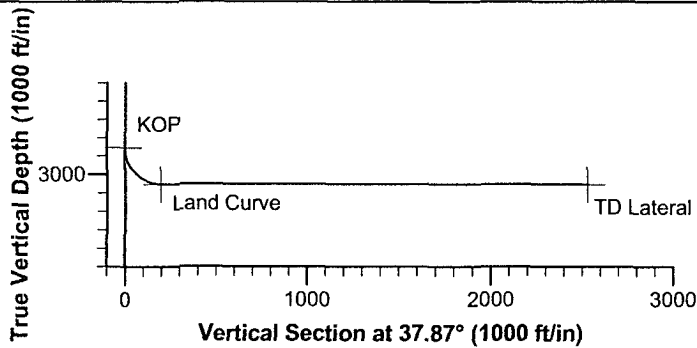


Azimuths to True North  
 Magnetic North: 10.11°

Magnetic Field  
 Strength: 51208.5snT  
 Dip Angle: 63.78°  
 Date: 8/5/2008  
 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	2855.0	0.00	0.00	2855.0	0.0	0.0	0.00	0.00	0.0	KOP
3	3169.2	90.01	37.87	3055.0	157.9	122.8	28.65	37.87	200.0	Land Curve
4	5502.5	89.99	37.86	3055.0	2000.0	1555.0	0.00	-137.49	2533.4	TD Lateral



# Energen

## Planned Wellpath

**Company:** SJ BR  
**Project:** SW Sec 25, T32N, R6W  
**Site:** Eul Canyon  
**Well:** San Juan 32-5 Unit NP #104  
**Wellbore:** Proposed Sidetrack  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well San Juan 32-5 Unit NP #104  
**TVD Reference:** KB @ 6425.0ft (Drilling Rig)  
**MD Reference:** KB @ 6425.0ft (Drilling Rig)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Single User Db

<b>Project</b>	SW Sec 25, T32N, R6W		
<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		

Site	Eul Canyon				
Site Position:		Northing:	2,165,612.97 ft	Latitude:	36° 56' 44.592 N
From:	Lat/Long	Easting:	1,300,206.73 ft	Longitude:	107° 24' 51.264 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	-0.70 °

Well	San Juan 32-5 Unit NP #104					
Well Position	+N/-S	0.0 ft	Northing:	2,165,612.97 ft	Latitude:	36° 56' 44.592 N
	+E/-W	0.0 ft	Easting:	1,300,206.73 ft	Longitude:	107° 24' 51.264 W
Position Uncertainty	0.0 ft	Wellhead Elevation:	6,411.0 ft	Ground Level:	6,411.0 ft	

<b>Wellbore</b>	Proposed Sidetrack					
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>	<b>Dip Angle</b>	<b>Field Strength</b>	
			(°)	(°)	(nT)	
	IGRF200510	8/5/2008	10 11	63.78	51,208	

<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	37.87	

<b>Survey Tool Program</b>	<b>Date</b> 8/5/2008				
<b>From</b>	<b>To</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
(ft)	(ft)				
0.0	5,502.5	Plan #1 (Proposed Sidetrack)			

<b>Planned Survey</b>							
<b>MD</b>	<b>TVD</b>	<b>Inc</b>	<b>Azi</b>	<b>Build</b>	<b>V. Sec</b>	<b>N/S</b>	<b>E/W</b>
(ft)	(ft)	(°)	(°)	(°/100ft)	(ft)	(ft)	(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

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**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
2,855.0	2,855.0	0.00	0.00	0.00	0.0	0.0	0.0
<b>KOP</b>							
2,860.0	2,860.0	1.43	37.87	28.65	0.1	0.0	0.0
2,880.0	2,879.9	7.16	37.87	28.65	1.6	1.2	1.0
2,900.0	2,899.6	12.89	37.87	28.65	5.0	4.0	3.1
2,920.0	2,918.9	18.62	37.87	28.65	10.5	8.3	6.4
2,940.0	2,937.5	24.35	37.87	28.65	17.8	14.0	10.9
2,960.0	2,955.2	30.08	37.87	28.65	26.9	21.3	16.5
2,980.0	2,972.0	35.81	37.87	28.65	37.8	29.8	23.2
3,000.0	2,987.6	41.54	37.87	28.65	50.3	39.7	30.9
3,020.0	3,001.9	47.27	37.87	28.65	64.3	50.7	39.5
3,040.0	3,014.7	53.00	37.87	28.65	79.6	62.9	48.9
3,060.0	3,025.9	58.73	37.87	28.65	96.2	75.9	59.0
3,080.0	3,035.5	64.46	37.87	28.65	113.8	89.8	69.8
3,100.0	3,043.2	70.19	37.87	28.65	132.2	104.4	81.2
3,120.0	3,049.0	75.92	37.87	28.65	151.3	119.5	92.9
3,140.0	3,052.9	81.65	37.87	28.65	170.9	134.9	104.9
3,160.0	3,054.8	87.38	37.87	28.65	190.8	150.6	117.2
3,169.2	3,055.0	90.01	37.87	28.65	200.0	157.9	122.8
<b>Land Curve</b>							
3,200.0	3,055.0	90.01	37.87	0.00	230.8	182.2	141.7
3,300.0	3,055.0	90.01	37.87	0.00	330.8	261.2	203.1
3,400.0	3,055.0	90.01	37.87	0.00	430.8	340.1	264.5
3,500.0	3,055.0	90.01	37.87	0.00	530.8	419.0	325.9
3,600.0	3,054.9	90.01	37.87	0.00	630.8	498.0	387.3
3,700.0	3,054.9	90.00	37.87	0.00	730.8	576.9	448.7
3,800.0	3,054.9	90.00	37.87	0.00	830.8	655.9	510.0
3,900.0	3,054.9	90.00	37.87	0.00	930.8	734.8	571.4

# Energen

## Planned Wellpath

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**Design:** Plan #1

**Local Co-ordinate Reference:** Well San Juan 32-5 Unit NP #104  
**TVD Reference:** KB @ 6425.0ft (Drilling Rig)  
**MD Reference:** KB @ 6425.0ft (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)
4,000.0	3,054.9	90.00	37.87	0.00	1,030.8	813.7	632.8
4,100.0	3,054.9	90.00	37.87	0.00	1,130.8	892.7	694.2
4,200.0	3,054.9	90.00	37.87	0.00	1,230.8	971.6	755.6
4,300.0	3,054.9	90.00	37.86	0.00	1,330.8	1,050.6	817.0
4,400.0	3,054.9	90.00	37.86	0.00	1,430.8	1,129.5	878.3
4,500.0	3,054.9	90.00	37.86	0.00	1,530.8	1,208.5	939.7
4,600.0	3,054.9	90.00	37.86	0.00	1,630.8	1,287.4	1,001.1
4,700.0	3,054.9	90.00	37.86	0.00	1,730.8	1,366.4	1,062.5
4,800.0	3,054.9	90.00	37.86	0.00	1,830.8	1,445.3	1,123.8
4,900.0	3,054.9	90.00	37.86	0.00	1,930.8	1,524.3	1,185.2
5,000.0	3,054.9	90.00	37.86	0.00	2,030.8	1,603.2	1,246.6
5,100.0	3,054.9	89.99	37.86	0.00	2,130.8	1,682.2	1,308.0
5,200.0	3,055.0	89.99	37.86	0.00	2,230.8	1,761.1	1,369.3
5,300.0	3,055.0	89.99	37.86	0.00	2,330.8	1,840.1	1,430.7
5,400.0	3,055.0	89.99	37.86	0.00	2,430.8	1,919.0	1,492.1
5,502.5	3,055.0	89.99	37.86	0.00	2,533.4	2,000.0	1,555.0
TD Lateral							

### 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
KOP - plan hits target - Point	0.00	0.00	2,855.0	0.0	0.0	2,165,612.97	1,300,206.73	36° 56' 44.592 N	107° 24' 51.264 W
TD Lateral - plan hits target - Point	0.00	0.00	3,055.0	2,000.0	1,555.0	2,167,593.82	1,301,786.05	36° 57' 4.366 N	107° 24' 32.108 W
Land Curve - plan hits target - Point	0.00	0.00	3,055.0	157.9	122.8	2,165,769.36	1,300,331.45	36° 56' 46.153 N	107° 24' 49.751 W

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