

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires July 31, 2010

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.

RECEIVED

SUBMIT IN TRIPLICATE - Other instructions on page 2

NOV 30 2009

Bureau of Land Management
Farmington Field Office

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)

1105 FNL, 1215 FWL
Sec. 25, T32N, R06W

5. Lease Serial No.

NMSF 081181

6. If Indian, Allottee or Tribe Name

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 #104S

9. API Well No.

30-039-27267

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

- | | | | |
|---|---|--|---|
| <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input checked="" type="checkbox"/> Recomplete | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> 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 recomple 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 recompletion 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 #104S as follows:

*Set a plug and whipstock at 2768' TVD and mill a window from 2756' - 2762'.

*Drill a curve and horizontal lateral to a MD of 4663' (2971' TVD) with a BHL of 2300 FNL, 2540 FWL.

*Line the lateral with a perforated 4 1/2", 11.60 ppf, J-55 LTC liner string from 2758' MD - 4663' MD

*A 2-3/8" tubing string will be landed at 2968' TVD in the 7" casing.

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

RCVD DEC 8 '09

OIL CONS. DIV.

DIST. 3

NOTIFY AZTEC OGD 24 HRS. SEE ATTACHED FOR
PRIOR TO CASING & CEMENT

Hold C104

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

Jason Kincaid

Title Drilling Engineer

Signature

Date 11/30/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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.

NMOC

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

¹ API Number 30-039-27267		² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code 21994	⁵ Property Name SAN JUAN 32-5 UNIT		⁶ Well Number 104S
⁷ OGRID No. 162928	⁸ Operator Name ENERGEN RESOURCES CORPORATION		⁹ Elevation 6291'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	25	32N	6W		1105	NORTH	1215	WEST	RIO ARriba

¹¹ 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
F	25	32N	6W		2300	NORTH	2540	WEST	RIO ARriba

¹² Dedicated Acres 320 W/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

	¹⁷ OPERATOR CERTIFICATION 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. Signature _____ Date 11/30/2009 JASON KINCAID Printed Name
	¹⁸ SURVEYOR CERTIFICATION 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. OCTOBER 25, 2002 Date of Survey Original Survey Conducted and Recorded By Jason C. Edwards 15269 Certificate Number



Energen Resources Corp.

SJBR: Sec.25-T32N-R06W

Eul Canyon

San Juan 32-5 Unit #104S

Re-Entry Sidetrack OPE FTC

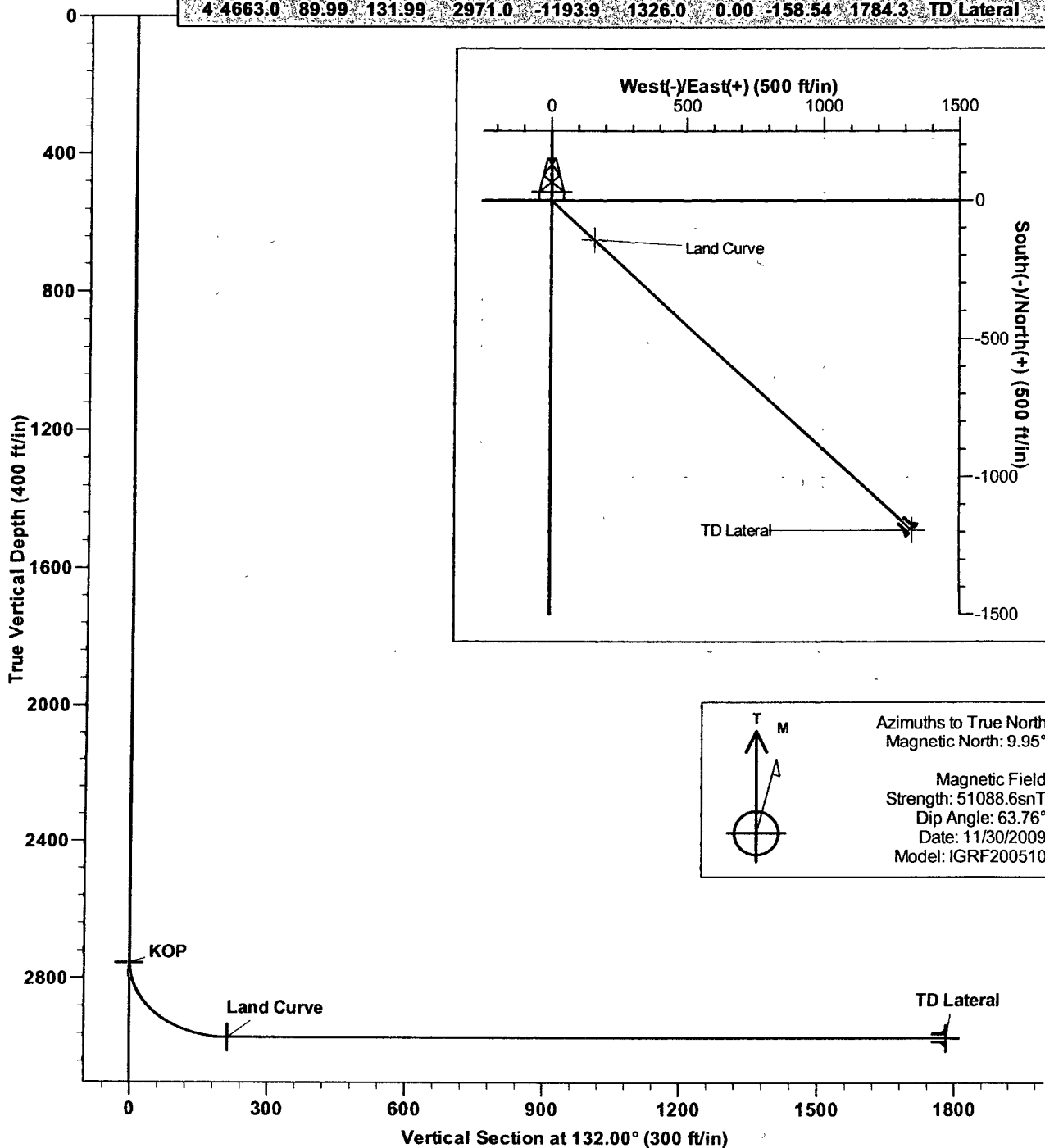
Plan: Plan #1

Directional Plan

30 November, 2009

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	2756.0	0.00	0.00	2756.0	0.0	0.0	0.00	0.00	0.0	KOP
3	3093.8	90.01	132.00	2971.0	-143.9	159.8	26.65	132.00	215.0	Land Curve
4	4663.0	89.99	131.99	2971.0	-1193.9	1326.0	0.00	-158.54	1784.3	TD Lateral



Company: Energen Resources Corp.
Project: SJBR: Sec.25-T32N-R06W
Site: Eul Canyon
Well: San Juan 32-5 Unit #104S
Wellbore: Re-Entry Sidetrack OPE FTC
Design: Plan #1

Local Co-ordinate Reference: Well San Juan 32-5 Unit #104S
TVD Reference: KB @ 6306.0ft (Drillin Rig)
MD Reference: KB @ 6306.0ft (Drillin Rig)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Project	SJBR: Sec.25-T32N-R06W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site	Eul Canyon		
Site Position:		Northing:	2,169,161.83 ft
From:	Lat/Long	Easting:	1,300,326.07 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	36° 57' 19.692 N
		Longitude:	107° 24' 50.328 W
		Grid Convergence:	-0.70 °

Well	San Juan 32-5 Unit #104S		
Well Position	+N/-S	0.0 ft	Northing: 2,169,161.83 ft
	+E/-W	0.0 ft	Easting: 1,300,326.07 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	6,291.0 ft
		Latitude:	36° 57' 19.692 N
		Longitude:	107° 24' 50.328 W
		Ground Level:	6,291.0 ft

Wellbore	Re-Entry Sidetrack OPE FTC				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	11/30/2009	9.95	63.76	51,089

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	132.00

Survey Tool Program	Date	11/30/2009		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	4,663.0	Plan #1 (Re-Entry Sidetrack OPE FTC)	MWD	MWD - Standard

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

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 Design: Plan #1

Local Co-ordinate Reference: Well San Juan 32-5 Unit #104S
 TVD Reference: KB @ 6306.0ft (Drillin Rig)
 MD Reference: KB @ 6306.0ft (Drillin 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)	N/S (ft)	E/W (ft)	V. Sec (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
2,756.0	2,756.0	0.00	0.00	0.00	0.0	0.0	0.0
KOP							
2,760.0	2,760.0	1.07	132.00	26.65	0.0	0.0	0.0
2,780.0	2,780.0	6.40	132.00	26.65	-0.9	1.0	1.3
2,800.0	2,799.7	11.73	132.00	26.65	-3.0	3.3	4.5
2,820.0	2,819.1	17.06	132.00	26.65	-6.3	7.0	9.5
2,840.0	2,837.9	22.39	132.00	26.65	-10.8	12.0	16.2
2,860.0	2,856.0	27.72	132.00	26.65	-16.5	18.3	24.7
2,880.0	2,873.2	33.05	132.00	26.65	-23.3	25.8	34.8
2,900.0	2,889.5	38.37	132.00	26.65	-31.1	34.5	46.4
2,920.0	2,904.6	43.70	132.00	26.65	-39.9	44.3	59.6
2,940.0	2,918.3	49.03	132.00	26.65	-49.5	55.0	74.0
2,960.0	2,930.7	54.36	132.00	26.65	-60.0	66.7	89.7
2,980.0	2,941.6	59.69	132.00	26.65	-71.3	79.1	106.5
3,000.0	2,950.9	65.02	132.00	26.65	-83.1	92.3	124.2
3,020.0	2,958.5	70.35	132.00	26.65	-95.5	106.1	142.7
3,040.0	2,964.3	75.68	132.00	26.65	-108.3	120.3	161.8
3,060.0	2,968.4	81.01	132.00	26.65	-121.4	134.8	181.4
3,080.0	2,970.6	86.34	132.00	26.65	-134.7	149.6	201.3
3,093.8	2,971.0	90.01	132.00	26.65	-143.9	159.8	215.0
Land Curve							
3,100.0	2,971.0	90.01	132.00	0.00	-148.1	164.4	221.3
3,200.0	2,971.0	90.01	132.00	0.00	-215.0	238.7	321.3
3,300.0	2,971.0	90.01	132.00	0.00	-281.9	313.1	421.3
3,400.0	2,971.0	90.01	132.00	0.00	-348.8	387.4	521.3
3,500.0	2,970.9	90.01	132.00	0.00	-415.7	461.7	621.3
3,600.0	2,970.9	90.00	132.00	0.00	-482.6	536.0	721.3
3,700.0	2,970.9	90.00	132.00	0.00	-549.6	610.3	821.3
3,800.0	2,970.9	90.00	132.00	0.00	-616.5	684.6	921.3

Company: Energen Resources Corp.
Project: SJBR: Sec.25-T32N-R06W
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Well: San Juan 32-5 Unit #104S
Wellbore: Re-Entry Sidetrack OPE FTC
Design: Plan #1

Local Co-ordinate Reference: Well San Juan 32-5 Unit #104S
TVD Reference: KB @ 6306.0ft (Drillin Rig)
MD Reference: KB @ 6306.0ft (Drillin 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)	N/S (ft)	E/W (ft)	V. Sec (ft)
3,900.0	2,970.9	90.00	132.00	0.00	-683.4	758.9	1,021.3
4,000.0	2,970.9	90.00	132.00	0.00	-750.3	833.3	1,121.3
4,100.0	2,970.9	90.00	132.00	0.00	-817.2	907.6	1,221.3
4,200.0	2,970.9	90.00	132.00	0.00	-884.1	981.9	1,321.3
4,300.0	2,970.9	89.99	132.00	0.00	-951.0	1,056.2	1,421.3
4,400.0	2,971.0	89.99	132.00	0.00	-1,017.9	1,130.5	1,521.3
4,500.0	2,971.0	89.99	132.00	0.00	-1,084.8	1,204.9	1,621.3
4,600.0	2,971.0	89.99	131.99	0.00	-1,151.7	1,279.2	1,721.3
4,663.0	2,971.0	89.99	131.99	0.00	-1,193.9	1,326.0	1,784.3

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
Land Curve - plan hits target - Point	0.00	0.00	2,971.0	-143.9	159.8	2,169,015.99	1,300,484.10	36° 57' 18.269 N	107° 24' 48.359 W
TD Lateral - plan hits target - Point	0.00	0.00	2,971.0	-1,193.9	1,326.0	2,167,951.82	1,301,637.39	36° 57' 7.887 N	107° 24' 33.993 W
KOP - plan hits target - Point	0.00	0.00	2,756.0	0.0	0.0	2,169,161.83	1,300,326.07	36° 57' 19.692 N	107° 24' 50.328 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
4,663.0	2,971.0	Liner	4-1/2	6-1/4

Checked By: _____ Approved By: _____ Date: _____