

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

AUG 06 2008

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Serial No.

NM02850B

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 111S

9. API Well No.

30-039-27700

10. Field and Pool, or Exploratory Area

Basin Fruitland Coal

11. County or Parish, State

Rio Arriba NM

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)

2300 FSL, 950 FEL

30 - 32N-5W

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 recompleat 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 #111S as follows:

*Set a plug and whipstock at 3069' TVD and mill a window from 3069' - 3057'.

*Drill a curve and horizontal lateral to a MD of 5400' (3275' TVD) with a BHL of 100 FSL, 700 EWL.

*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 recompletion.

A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMCD FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMCD 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.

NOTIFY AZTEC OCD 24 HRS. DIST. 3
PRIOR TO CASING & CEMENT

- 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

NMCD

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 30-039-27700	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code	⁵ Property Name San Juan 32-5 Unit	⁶ Well Number #111S
⁷ OGRID No. 162928	⁸ Operator Name Energen Resources Corporation	⁹ Elevation 6522' GL

¹⁰ Surface Location

UL or lot no. I	Section 30	Township 32N	Range 5W	Lot Idn	Feet from the 2300	North/South line South	Feet from the 950	East/West line East	County Rio Arriba
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. P	Section 30	Township 32N	Range 5W	Lot Idn	Feet from the 100	North/South line South	Feet from the 700	East/West line West	County Rio Arriba
¹² Dedicated Acres 345.59, Sec 30 & 31	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSP-1847						

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. <i>Nathan Smith</i> 8/4/2008 Signature Date Nathan Smith 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. August 25, 2003 Date of Survey Signature and Seal of Professional Surveyor: Original Survey Conducted and Recorded By Jason C. Edwards 15269 Certificate Number

SJ BR

S/2 Sec 30, T32N, R5W

Eul Canyon

San Juan 32-5 Unit #111S

Sidetrack Proposal

Plan: Plan #1

Planned Wellpath

05 August, 2008

Project: S/2 Sec 30, T32N, R5W
 Site: Eul Canyon
 Well: San Juan 32-5 Unit #111S
 Wellbore: Sidetrack Proposal
 Plan: Plan #1 (San Juan 32-5 Unit #111S/Sidetrack Proposal)

PROJECT DETAILS: S/2 Sec 30, T32N, R5W

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

System Datum: Mean Sea Level

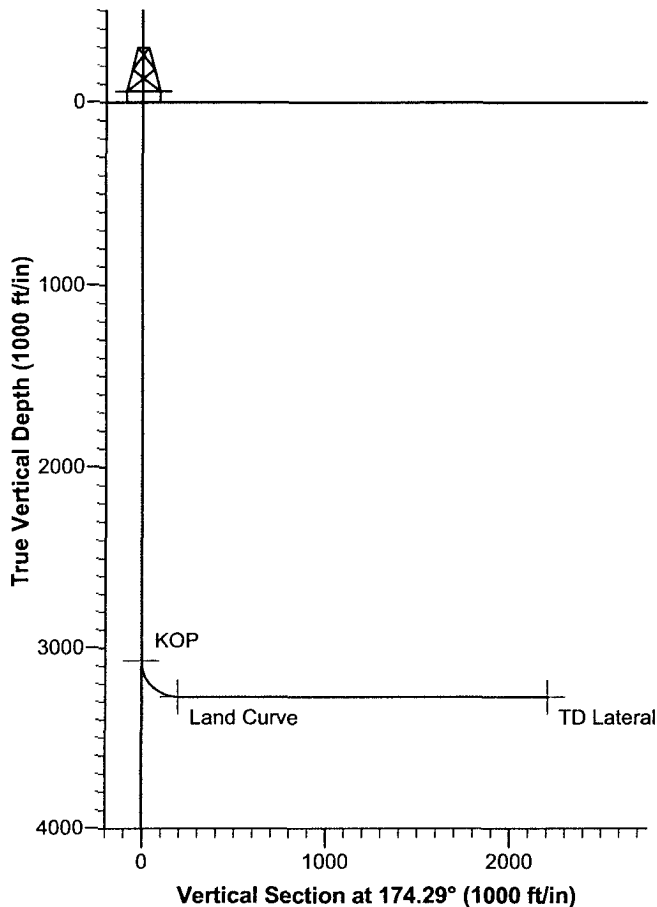


Azimuths to True North
 Magnetic North: 10.10°

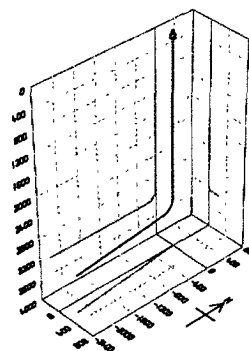
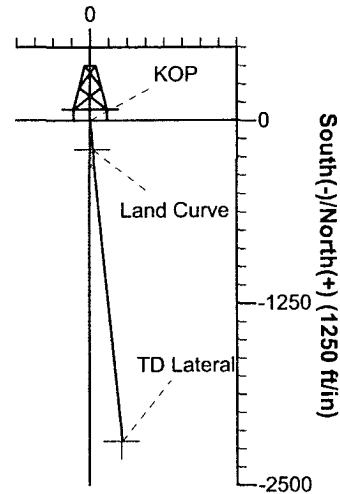
Magnetic Field
 Strength: 51212.5nT
 Dip Angle: 63.79°
 Date: 8/5/2008
 Model: IGRF200510

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	3075.0	0.00	0.00	3075.0	0.0	0.0	0.00	0.00	0.0	KOP
3	3389.2	90.00	174.29	3275.0	-199.0	19.9	28.65	174.29	200.0	Land Curve
4	5400.1	90.00	174.29	3275.0	-2200.0	220.0	0.00	0.00	2211.0	TD Lateral



West(-)/East(+) (1250 ft/in)



Energen

Planned Wellpath

Company: SJ BR
Project: S/2 Sec 30, T32N, R5W
Site: Eul Canyon
Well: San Juan 32-5 Unit #111S
Wellbore: Sidetrack Proposal
Design: Plan #1

Local Co-ordinate Reference: Well San Juan 32-5 Unit #111S
TVD Reference: KB @ 6537.0ft (Drilling Rig)
MD Reference: KB @ 6537.0ft (Drilling Rig)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Project S/2 Sec 30, T32N, R5W

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Central Zone

System Datum: Mean Sea Level

Site Eul Canyon

Site Position: Northing: 2,167,213.12 ft Latitude: 36° 57' 1.001 N
From: Lat/Long Easting: 1,305,118.60 ft Longitude: 107° 23' 51.000 W
Position Uncertainty: 0.0 ft Slot Radius: " Grid Convergence: -0.69 °

Well San Juan 32-5 Unit #111S

Well Position +N/-S 0.0 ft Northing: 2,167,213.12 ft Latitude: 36° 57' 1.001 N
 +E/-W 0.0 ft Easting: 1,305,118.60 ft Longitude: 107° 23' 51.000 W
Position Uncertainty 0.0 ft Wellhead Elevation: 6,522.0 ft Ground Level: 6,522.0 ft

Wellbore Sidetrack Proposal

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	8/5/2008	10.10	63.79	51,212

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	174.29

Survey Tool Program Date 8/5/2008

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	5,400.1	Plan #1 (Sidetrack Proposal)		

Planned Survey

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

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Site: Eul Canyon
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Wellbore: Sidetrack Proposal
Design: Plan #1

Local Co-ordinate Reference: Well San Juan 32-5 Unit #111S
TVD Reference: KB @ 6537.0ft (Drilling Rig)
MD Reference: KB @ 6537.0ft (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
3,075.0	3,075.0	0.00	0.00	0.00	0.0	0.0	0.0
KOP							
3,080.0	3,080.0	1.43	174.29	28.65	0.1	-0.1	0.0
3,100.0	3,099.9	7.16	174.29	28.65	1.6	-1.6	0.2
3,120.0	3,119.6	12.89	174.29	28.65	5.0	-5.0	0.5
3,140.0	3,138.9	18.62	174.29	28.65	10.5	-10.4	1.0
3,160.0	3,157.5	24.35	174.29	28.65	17.8	-17.7	1.8
3,180.0	3,175.2	30.08	174.29	28.65	26.9	-26.8	2.7
3,200.0	3,192.0	35.81	174.29	28.65	37.8	-37.6	3.8
3,220.0	3,207.6	41.54	174.29	28.65	50.3	-50.1	5.0
3,240.0	3,221.9	47.27	174.29	28.65	64.3	-64.0	6.4
3,260.0	3,234.7	53.00	174.29	28.65	79.6	-79.2	7.9
3,280.0	3,245.9	58.73	174.29	28.65	96.2	-95.7	9.6
3,300.0	3,255.5	64.46	174.29	28.65	113.8	-113.2	11.3
3,320.0	3,263.2	70.19	174.29	28.65	132.2	-131.6	13.2
3,340.0	3,269.0	75.92	174.29	28.65	151.3	-150.6	15.1
3,360.0	3,272.9	81.65	174.29	28.65	170.9	-170.1	17.0
3,380.0	3,274.8	87.38	174.29	28.65	190.8	-189.9	19.0
3,389.2	3,275.0	90.00	174.29	28.65	200.0	-199.0	19.9
Land Curve							
3,400.0	3,275.0	90.00	174.29	0.00	210.8	-209.8	21.0
3,500.0	3,275.0	90.00	174.29	0.00	310.8	-309.3	30.9
3,600.0	3,275.0	90.00	174.29	0.00	410.8	-408.8	40.9
3,700.0	3,275.0	90.00	174.29	0.00	510.8	-508.3	50.8
3,800.0	3,275.0	90.00	174.29	0.00	610.8	-607.8	60.8
3,900.0	3,275.0	90.00	174.29	0.00	710.8	-707.3	70.7

Energen

Planned Wellpath

Company: SJ BR
Project: S/2 Sec 30, T32N, R5W
Site: Eul Canyon
Well: San Juan 32-5 Unit #111S
Wellbore: Sidetrack Proposal
Design: Plan #1

Local Co-ordinate Reference: Well San Juan 32-5 Unit #111S
TVD Reference: KB @ 6537.0ft (Drilling Rig)
MD Reference: KB @ 6537.0ft (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	3,275.0	90.00	174.29	0.00	810.8	-806.8	80.7
4,100.0	3,275.0	90.00	174.29	0.00	910.8	-906.3	90.6
4,200.0	3,275.0	90.00	174.29	0.00	1,010.8	-1,005.8	100.6
4,300.0	3,275.0	90.00	174.29	0.00	1,110.8	-1,105.3	110.5
4,400.0	3,275.0	90.00	174.29	0.00	1,210.8	-1,204.8	120.5
4,500.0	3,275.0	90.00	174.29	0.00	1,310.8	-1,304.3	130.4
4,600.0	3,275.0	90.00	174.29	0.00	1,410.8	-1,403.8	140.4
4,700.0	3,275.0	90.00	174.29	0.00	1,510.8	-1,503.3	150.3
4,800.0	3,275.0	90.00	174.29	0.00	1,610.8	-1,602.8	160.3
4,900.0	3,275.0	90.00	174.29	0.00	1,710.8	-1,702.4	170.2
5,000.0	3,275.0	90.00	174.29	0.00	1,810.8	-1,801.9	180.2
5,100.0	3,275.0	90.00	174.29	0.00	1,910.8	-1,901.4	190.1
5,200.0	3,275.0	90.00	174.29	0.00	2,010.8	-2,000.9	200.1
5,300.0	3,275.0	90.00	174.29	0.00	2,110.8	-2,100.4	210.0
5,400.1	3,275.0	90.00	174.29	0.00	2,211.0	-2,200.0	220.0

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	3,075.0	0.0	0.0	2,167,213.12	1,305,118.60	36° 57' 1 001 N	107° 23' 51.000 W
TD Lateral - plan hits target - Point	0.00	0.00	3,275.0	-2,200.0	220.0	2,165,010.63	1,305,312.09	36° 56' 39.249 N	107° 23' 48.290 W
Land Curve - plan hits target - Point	0.00	0.00	3,275.0	-199.0	19.9	2,167,013.89	1,305,136.10	36° 56' 59.033 N	107° 23' 50.755 W

Checked By: _____ Approved By: _____ Date: _____