

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.

2006 MAR 20 PM 3 55

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Energen Resources Corporation

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)

2450' FSL, 2270' FEL SE/4

(J) S21, T30N, R4W

5. Lease Serial No.

SF-079487A

6. If Indian, Allottee or Tribe Name

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

RECEIVED

077 FARMINGTON NM

8. Well Name and No.

San Juan 30-4 #40

9. API Well No.

30-039-25538

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 proposes a recompleation of the San Juan 30-4 Unit #40 in the Basin Fruitland Coal by drilling a horizontal lateral off the existing vertical wellbore as indicated on the attached C-102 and directional wellplan. A whipstock will be set 4068' +/- (TVD) and a window milled in the existing 7" casing. The lateral will be drilled to 5826' (MD), 4275' (TVD). This will be an open hole completion. 2 3/8" tubing will be landed at 4275' (TVD) in the 7" casing.

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

HOLD C104 FOR Directional Survey

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

Nathan Smith

Title

Drilling Engineer

Date 3/20/06

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Matt Halbert

Title

PETE ENB

Date

6-12-06

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

BLM- FFO

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.

NMOCDB

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000

DISTRICT II
811 South First, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION

2040 South Pacheco
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

1 API Number		2 Pool Code		3 Pool Name BASIN FRUITLAND COAL		
4 Property Code		5 Property Name SAN JUAN 30-4 UNIT			6 Well Number 40	
7 OGRID No.		8 Operator Name ENERGEN RESOURCES CORPORATION			9 Elevation 7614'	

10 Surface Location

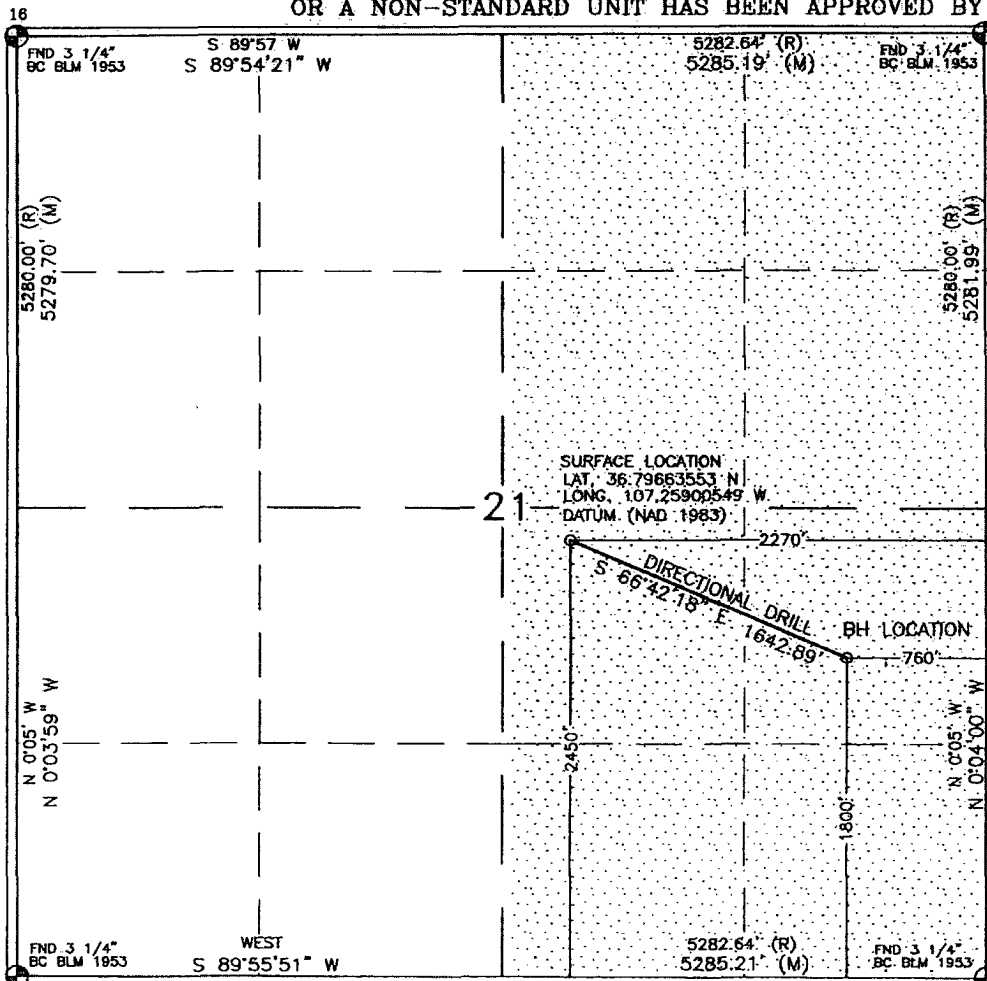
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	21	30N	4W		2450'	SOUTH	2270'	EAST	RIO ARRIBA

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
I	21	30N	4W		1800'	NORTH	760'	WEST	RIO ARRIBA

12 Dedicated Acres 320.40 Acres - (E/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

Nathan Smith

Signature
Nathan Smith

Printed Name
Drilling Engineer

Title
3/13/06

Date

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.

JANUARY 26, 2006

Date of Survey
Signature and Seal of Professional Surveyor:

David R. Russell

DAVID R. RUSSELL

Certificate Number 10201



Energen Resources Corporation

Rio Arriba, NM

Sec.21 T30N-R4W

San Juan 30-4 Unit 40

Wellbore #1

Plan: Plan #1

Standard Planning Report

13 March, 2006



Azimuths to Grid North
M True North: 0.60°
 Magnetic North: 10.92°

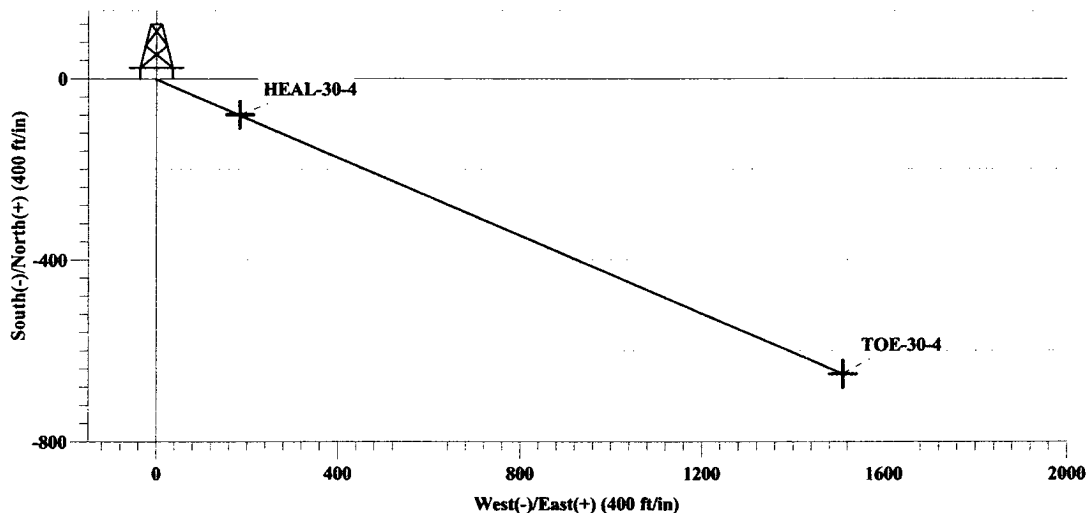
Magnetic Field
 Strength: 51425.0nT
 Dip Angle: 63.74°
 Date: 3/13/2006
 Model: IGRF200510

Energen Resources Corp.

San Juan 30-4 Unit 40
 Sec.21 T30N-R4W
 RIO ARRIBA Co., NM

PATHFINDER

ENERGY SERVICES

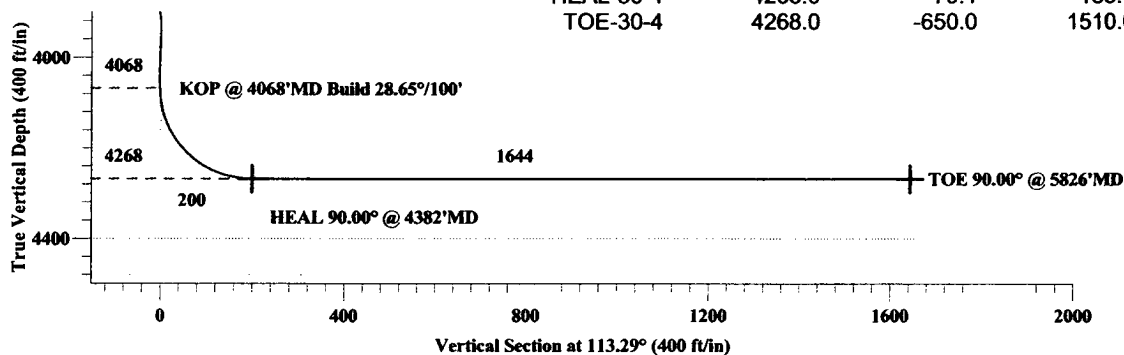


SURFACE LOCATION: San Juan 30-4 Unit 40

2450'FSL 2270'FEL

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
HEAL-30-4	4268.0	-79.1	183.7	Point
TOE-30-4	4268.0	-650.0	1510.0	Point



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	4068.0	0.00	0.00	4068.0	0.0	0.0	0.00	0.00	0.0	
3	4382.2	90.00	113.29	4268.0	-79.1	183.7	28.65	113.29	200.0	HEAL-30-4
4	5826.0	90.00	113.29	4268.0	-649.9	1509.9	0.00	0.00	1643.8	TOE-30-4

Plan: Plan #1 (San Juan 30-4 Unit 40/Wellbore #1)

Created By: Frank C. Scardino Date: 3/13/2006

Database: EDM 2003.14 Single User Db
Company: Energen Resources Corporation
Project: Rio Arriba, NM
Site: Sec.21 T30N-R4W
Well: San Juan 30-4 Unit 40
Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference: Well San Juan 30-4 Unit 40
TVD Reference: WELL @ 0.0ft (Original Well Elev)
MD Reference: WELL @ 0.0ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Rio Arriba, NM
Map System:	US State Plane 1983
Geo Datum:	North American Datum 1983
Map Zone:	New Mexico Central Zone
System Datum:	Mean Sea Level

Site	Sec.21 T30N-R4W
Site Position:	
From:	Lat/Long
Position Uncertainty:	0.0 ft
Northing:	2,110,818.50 ft
Easting:	1,344,996.62 ft
Slot Radius:	"
Latitude:	36° 47' 47.888 N
Longitude:	107° 15' 32.420 W
Grid Convergence:	-0.60 °

Well	San Juan 30-4 Unit 40
Well Position	
+N/-S	0.0 ft
+E/-W	0.0 ft
Position Uncertainty	0.0 ft
Northing:	2,110,818.50 ft
Easting:	1,344,996.62 ft
Wellhead Elevation:	ft
Latitude:	36° 47' 47.888 N
Longitude:	107° 15' 32.420 W
Ground Level:	0.0 ft

Wellbore	Wellbore #1
Magnetics	
Model Name	IGRF200510
Sample Date	3/13/2006
Declination (°)	10.32
Dip Angle (°)	63.74
Field Strength (nT)	51,425

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 (°)	
	113.29

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,068.0	0.00	0.00	4,068.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,382.2	90.00	113.29	4,268.0	-79.1	183.7	28.65	28.65	0.00	113.29	HEAL-30-4
5,826.0	90.00	113.29	4,268.0	-649.9	1,509.9	0.00	0.00	0.00	0.00	TOE-30-4

Database: EDM 2003.14 Single User Db
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 Project: Rio Arriba, NM
 Site: Sec.21 T30N-R4W
 Well: San Juan 30-4 Unit 40
 Wellbore: Wellbore #1
 Design: Plan #1

Local Co-ordinate Reference: Well San Juan 30-4 Unit 40
 TVD Reference: WELL @ 0.0ft (Original Well Elev)
 MD Reference: WELL @ 0.0ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,068.0	0.00	0.00	4,068.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP @ 4068'MD Build 28.65°/100'									
4,080.0	3.44	113.29	4,080.0	-0.1	0.3	0.4	28.65	28.65	0.00
4,100.0	9.17	113.29	4,099.9	-1.0	2.3	2.6	28.65	28.65	0.00
4,120.0	14.90	113.29	4,119.4	-2.7	6.2	6.7	28.65	28.65	0.00
4,140.0	20.63	113.29	4,138.5	-5.1	11.8	12.8	28.65	28.65	0.00
4,160.0	26.36	113.29	4,156.8	-8.2	19.1	20.8	28.65	28.65	0.00
4,180.0	32.09	113.29	4,174.2	-12.1	28.1	30.5	28.65	28.65	0.00
4,200.0	37.82	113.29	4,190.6	-16.6	38.6	42.0	28.65	28.65	0.00
4,220.0	43.54	113.29	4,205.8	-21.8	50.5	55.0	28.65	28.65	0.00
4,240.0	49.27	113.29	4,219.6	-27.5	63.8	69.5	28.65	28.65	0.00
4,260.0	55.00	113.29	4,231.8	-33.7	78.3	85.3	28.65	28.65	0.00
4,280.0	60.73	113.29	4,242.5	-40.4	93.9	102.2	28.65	28.65	0.00
4,300.0	66.46	113.29	4,251.4	-47.5	110.3	120.1	28.65	28.65	0.00
4,320.0	72.19	113.29	4,258.4	-54.9	127.5	138.8	28.65	28.65	0.00
4,340.0	77.92	113.29	4,263.6	-62.5	145.3	158.2	28.65	28.65	0.00
4,360.0	83.65	113.29	4,266.8	-70.3	163.4	177.9	28.65	28.65	0.00
4,380.0	89.38	113.29	4,268.0	-78.2	181.7	197.8	28.65	28.65	0.00
4,382.2	90.00	113.29	4,268.0	-79.1	183.7	200.0	28.65	28.65	0.00
HEAL 90.00° @ 4382'MD - HEAL-30-4									
4,400.0	90.00	113.29	4,268.0	-86.1	200.1	217.8	0.00	0.00	0.00
4,500.0	90.00	113.29	4,268.0	-125.7	291.9	317.8	0.00	0.00	0.00
4,600.0	90.00	113.29	4,268.0	-165.2	383.8	417.8	0.00	0.00	0.00
4,700.0	90.00	113.29	4,268.0	-204.7	475.6	517.8	0.00	0.00	0.00
4,800.0	90.00	113.29	4,268.0	-244.3	567.5	617.8	0.00	0.00	0.00
4,900.0	90.00	113.29	4,268.0	-283.8	659.3	717.8	0.00	0.00	0.00
5,000.0	90.00	113.29	4,268.0	-323.4	751.2	817.8	0.00	0.00	0.00
5,100.0	90.00	113.29	4,268.0	-362.9	843.1	917.8	0.00	0.00	0.00
5,200.0	90.00	113.29	4,268.0	-402.4	934.9	1,017.8	0.00	0.00	0.00
5,300.0	90.00	113.29	4,268.0	-442.0	1,026.8	1,117.8	0.00	0.00	0.00
5,400.0	90.00	113.29	4,268.0	-481.5	1,118.6	1,217.8	0.00	0.00	0.00
5,500.0	90.00	113.29	4,268.0	-521.1	1,210.5	1,317.8	0.00	0.00	0.00
5,600.0	90.00	113.29	4,268.0	-560.6	1,302.3	1,417.8	0.00	0.00	0.00
5,700.0	90.00	113.29	4,268.0	-600.1	1,394.2	1,517.8	0.00	0.00	0.00
5,800.0	90.00	113.29	4,268.0	-639.7	1,486.0	1,617.8	0.00	0.00	0.00
5,826.0	90.00	113.29	4,268.0	-649.9	1,509.9	1,643.8	0.00	0.00	0.00
TOE 90.00° @ 5826'MD - TOE-30-4									

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
TOE-30-4 - plan hits target - Point	0.00	0.00	4,268.0	-650.0	1,510.0	2,110,168.50	1,346,506.62	36° 47' 41.618 N	107° 15' 13.772 W
HEAL-30-4 - plan hits target - Point	0.00	360.00	4,268.0	-79.1	183.7	2,110,739.42	1,345,180.32	36° 47' 47.125 N	107° 15' 30.151 W

Database: EDM 2003.14 Single User Db
Company: Energen Resources Corporation
Project: Rio Arriba, NM
Site: Sec.21 T30N-R4W
Well: San Juan 30-4 Unit 40
Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference: Well San Juan 30-4 Unit 40
TVD Reference: WELL @ 0.0ft (Original Well Elev)
MD Reference: WELL @ 0.0ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
4,068.0	4,068.0	0.0	0.0	KOP @ 4068'MD Build 28.65°/100'
4,382.2	4,268.0	-79.1	183.7	HEAL 90.00° @ 4382'MD
5,826.0	4,268.0	-649.9	1,509.9	TOE 90.00° @ 5826'MD