

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.

707 FEB -7 AM 6:22

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 Hwy, Farmington, NM 87401

## 3b. Phone No. (include area code)

505-325-6800

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

At surface: 2240' fnl, 620' fel 30-32N-4W

At bottom: 1620' fnl, 2630' fel

## 5. Lease Serial No.

NNM 30015

## 6. If Indian, Allottee or Tribe Name

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

## 8. Well Name and No.

Carracas Unit 30 B #8

## 9. API Well No.

30-039-24442

## 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 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 recompleat 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 do a recompleat of the Carracas Unit 30 B #8 as follows:

-Set a bridge plug and retrievable mechanical set whipstock at 3710' TVD.

-Mill a 4 3/4" window in the existing 5 1/2" 15.5 ppf production casing.

-Drill a 4 3/4" wellbore with a build up rate of 24.9 deg/100 ft.

-Land curve at 90 deg in the Fruitland Coal at 3940' TVD.

-Drill remaining lateral to TD of 5944' MD, 3940' TVD according to the attached directional plan.

-Run a 3 1/2" FJ 9.3 ppf, J-55 pre-drilled uncemented liner from 3712'-5944' MD.

RCVD APR6'07

OIL CONS. DIV.

DIST. 3

No below grade drilling pit will be constructed. This recompleat lateral will be drilled using a closed loop system.

HOLD C104 FOR directional survey  
BN survey14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

Nathan Smith

## Title

Drilling Engineer

Date 2/5/07

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

## Approved by

Original Signed: Stephen Mason

## Title

## Date

APR 06 2007

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 R

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

'API Number 30-039-24442	'Pool Code 71629	'Pool Name Basin Fruitland Coal
'Property Code	'Property Name Carracas Unit 30 B	'Well Number #8
'OGRID No. 162928	'Operator Name Energen Resources Corporation	'Elevation 7205'

<sup>10</sup> Surface Location

UL or lot no. H	Section 30	Township 32N	Range 04W	Lot Idn	Feet from the 2240'	North/South line North	Feet from the 620'	East/West line East	County Rio Arriba
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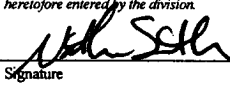
<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no. G	Section 30	Township 32N	Range 04W	Lot Idn	Feet from the 1620'	North/South line North	Feet from the 2630'	East/West line East	County Rio Arriba
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"Dedicated Acres 310.45 N/2	"Joint or Infill	"Consolidation Code	"Order No. NSL-2595
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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.

5280.00'

16	2640.0	1620'	BHL	2630'	2240'	620'	SHL	<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>  Signature Nathan Smith Date 1/10/2007 Printed Name
30	2640.0	1620'	BHL	2630'	2240'	620'	SHL	<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> September 21, 1988 Date of Survey Signature and Seal of Professional Surveyor: Original survey conducted and recorded by Edgar L. Risenhoover 5979 Certificate Number

# **Energen Resources**

**Carson Nat'l Forest - S30, T32N, R4W**

**Carracas Mesa**

**Carracas Unit 30 B #8**

**Carracas Unit 30 B #8 ST**

**API No.: 30-039-24442**

**Plan: Preliminary Design**

## **Energen Resources - Survey**

**01 February, 2007**



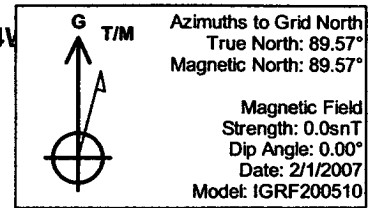
**Project:** Carson Nat'l Forest - S30, T32N, R4W

**Site:** Carracas Mesa

**Well:** Carracas Unit 30 B #8

**Wellbore:** Carracas Unit 30 B #8 ST

**Plan:** Preliminary Design (Carracas Unit 30 B #8/Carracas Unit 30 B #8 ST)

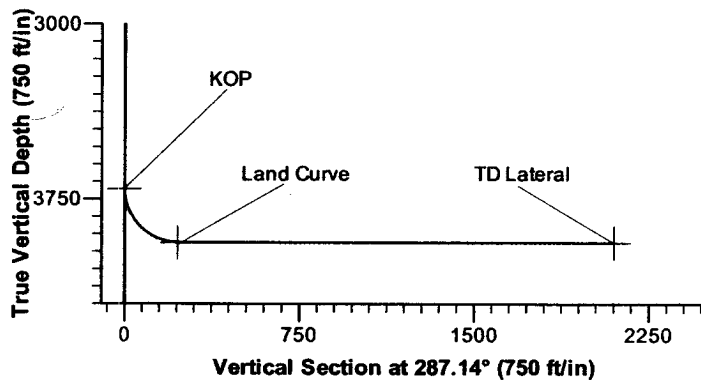
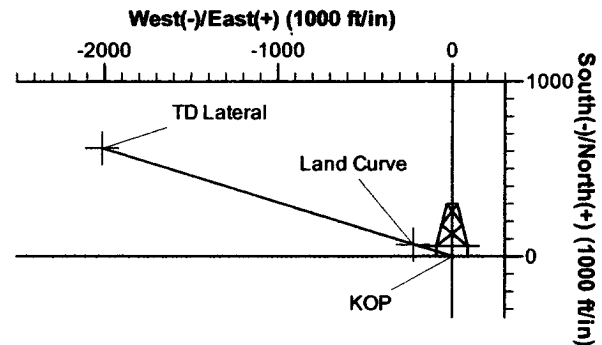


PROJECT DETAILS: Carson Nat'l Forest - S30, T32N, R4W	
Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico Western Zone
System Datum:	Mean Sea Level

SURFACE LOCATION	
Easting:	86482229.87
Northing:	-11255516.89

#### 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	3710.0	0.00	0.00	3710.0	0.0	0.0	0.00	0.00	0.0	KOP
3	4071.3	90.00	287.14	3940.0	67.8	-219.8	24.91	287.14	230.0	Land Curve
4	5944.3	90.00	287.14	3940.0	619.8	-2009.6	0.00	0.00	2103.0	TD Lateral



**Energen**  
Energen Resources - Survey



**Company:** Energen Resources  
**Project:** Carson Nat'l Forest - S30, T32N, R4W  
**Site:** Carracas Mesa  
**Well:** Carracas Unit 30 B #8  
**Wellbore:** Carracas Unit 30 B #8 ST  
**Design:** Preliminary Design

**Local Co-ordinate Reference:** Well Carracas Unit 30 B #8  
**TVD Reference:** KB @ 7220.0ft (Drilling Rig)  
**MD Reference:** KB @ 7220.0ft (Drilling Rig)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Single User Db

**Project** Carson Nat'l Forest - S30, T32N, R4W

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

**System Datum:** Mean Sea Level

**Site** Carracas Mesa

<b>Site Position:</b>		<b>Northing:</b>	-11,255,516.89 ft	<b>Latitude:</b>	
<b>From:</b>	Lat/Long	<b>Easting:</b>	86,482,229.87 ft	<b>Longitude:</b>	
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.01 °

**Well** Carracas Unit 30 B #8

<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	-11,255,516.89 ft	<b>Latitude:</b>	0° 0' 0.000 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	86,482,229.87 ft	<b>Longitude:</b>	1978° 37' 36.621 E
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	7,205.0 ft	<b>Ground Level:</b>	7,205.0 ft

**Wellbore** Carracas Unit 30 B #3 ST

<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>	<b>Dip Angle</b>	<b>Field Strength</b>
			(°)	(°)	(nT)
	IGRF200510	2/1/2007			

**Design** Preliminary Design

**Audit Notes:**

<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	287.14

**Survey Tool Program** Date 2/1/2007

<b>From</b>	<b>To</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
(ft)	(ft)			
0.0	5,944.3	Preliminary Design (Carracas Unit 30 B #8	MWD	MWD - Standard

**Planned Survey**

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

**Energen**  
Energen Resources - Survey



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**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Single User Db

**Planned Survey**

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	V. Sec (ft)	N/S (ft)	E/W (ft)
1,200.0	1,200.0	0.00	0.00	0.0	0.0	0.0
1,300.0	1,300.0	0.00	0.00	0.0	0.0	0.0
1,400.0	1,400.0	0.00	0.00	0.0	0.0	0.0
1,500.0	1,500.0	0.00	0.00	0.0	0.0	0.0
1,600.0	1,600.0	0.00	0.00	0.0	0.0	0.0
1,700.0	1,700.0	0.00	0.00	0.0	0.0	0.0
1,800.0	1,800.0	0.00	0.00	0.0	0.0	0.0
1,900.0	1,900.0	0.00	0.00	0.0	0.0	0.0
2,000.0	2,000.0	0.00	0.00	0.0	0.0	0.0
2,100.0	2,100.0	0.00	0.00	0.0	0.0	0.0
2,200.0	2,200.0	0.00	0.00	0.0	0.0	0.0
2,300.0	2,300.0	0.00	0.00	0.0	0.0	0.0
2,400.0	2,400.0	0.00	0.00	0.0	0.0	0.0
2,500.0	2,500.0	0.00	0.00	0.0	0.0	0.0
2,600.0	2,600.0	0.00	0.00	0.0	0.0	0.0
2,700.0	2,700.0	0.00	0.00	0.0	0.0	0.0
2,800.0	2,800.0	0.00	0.00	0.0	0.0	0.0
2,900.0	2,900.0	0.00	0.00	0.0	0.0	0.0
3,000.0	3,000.0	0.00	0.00	0.0	0.0	0.0
3,100.0	3,100.0	0.00	0.00	0.0	0.0	0.0
3,200.0	3,200.0	0.00	0.00	0.0	0.0	0.0
3,300.0	3,300.0	0.00	0.00	0.0	0.0	0.0
3,400.0	3,400.0	0.00	0.00	0.0	0.0	0.0
3,500.0	3,500.0	0.00	0.00	0.0	0.0	0.0
3,600.0	3,600.0	0.00	0.00	0.0	0.0	0.0
3,700.0	3,700.0	0.00	0.00	0.0	0.0	0.0
3,710.0	3,710.0	0.00	0.00	0.0	0.0	0.0
<b>KOP</b>						
3,720.0	3,720.0	2.49	287.14	0.2	0.1	-0.2
3,740.0	3,739.9	7.47	287.14	2.0	0.6	-1.9
3,760.0	3,759.6	12.46	287.14	5.4	1.6	-5.2
3,780.0	3,778.9	17.44	287.14	10.6	3.1	-10.1
3,800.0	3,797.7	22.42	287.14	17.4	5.1	-16.6
3,820.0	3,815.9	27.40	287.14	25.8	7.6	-24.7
3,840.0	3,833.2	32.38	287.14	35.8	10.5	-34.2
3,860.0	3,849.6	37.37	287.14	47.2	13.9	-45.1
3,880.0	3,864.9	42.35	287.14	60.0	17.7	-57.4
3,900.0	3,879.1	47.33	287.14	74.1	21.8	-70.8
3,920.0	3,892.0	52.31	287.14	89.4	26.3	-85.4
3,940.0	3,903.5	57.30	287.14	105.7	31.2	-101.0
3,960.0	3,913.6	62.28	287.14	123.0	36.3	-117.5
3,980.0	3,922.1	67.26	287.14	141.1	41.6	-134.8
4,000.0	3,929.0	72.24	287.14	159.9	47.1	-152.8
4,020.0	3,934.3	77.22	287.14	179.1	52.8	-171.2

**Energen**  
Energen Resources - Survey



**Company:** Energen Resources  
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**Planned Survey**

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	V. Sec (ft)	N/S (ft)	E/W (ft)
4,040.0	3,937.9	82.21	287.14	198.8	58.6	-190.0
4,060.0	3,939.7	87.19	287.14	218.7	64.5	-209.0
4,071.3	3,940.0	90.00	287.14	230.0	67.8	-219.8
<b>Land Curve</b>						
4,100.0	3,940.0	90.00	287.14	258.7	76.2	-247.2
4,200.0	3,940.0	90.00	287.14	358.7	105.7	-342.8
4,300.0	3,940.0	90.00	287.14	458.7	135.2	-438.3
4,400.0	3,940.0	90.00	287.14	558.7	164.7	-533.9
4,500.0	3,940.0	90.00	287.14	658.7	194.1	-629.5
4,600.0	3,940.0	90.00	287.14	758.7	223.6	-725.0
4,700.0	3,940.0	90.00	287.14	858.7	253.1	-820.6
4,800.0	3,940.0	90.00	287.14	958.7	282.5	-916.1
4,900.0	3,940.0	90.00	287.14	1,058.7	312.0	-1,011.7
5,000.0	3,940.0	90.00	287.14	1,158.7	341.5	-1,107.3
5,100.0	3,940.0	90.00	287.14	1,258.7	371.0	-1,202.8
5,200.0	3,940.0	90.00	287.14	1,358.7	400.4	-1,298.4
5,300.0	3,940.0	90.00	287.14	1,458.7	429.9	-1,393.9
5,400.0	3,940.0	90.00	287.14	1,558.7	459.4	-1,489.5
5,500.0	3,940.0	90.00	287.14	1,658.7	488.8	-1,585.0
5,600.0	3,940.0	90.00	287.14	1,758.7	518.3	-1,680.6
5,700.0	3,940.0	90.00	287.14	1,858.7	547.8	-1,776.2
5,800.0	3,940.0	90.00	287.14	1,958.7	577.2	-1,871.7
5,900.0	3,940.0	90.00	287.14	2,058.7	606.7	-1,967.3
5,944.3	3,940.0	90.00	287.14	2,103.0	619.8	-2,009.6

**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	3,940.0	67.8	-219.8	-11,255,449.11	86,482,010.08	0° 3' 25.754 S	1978° 35' 55.090 E
KOP - plan hits target - Point	0.00	360.00	3,710.0	0.0	0.0	-11,255,516.89	86,482,229.87	0° 0' 0.000 N	1978° 37' 36.621 E
TD Lateral - plan hits target - Point	0.00	0.00	3,940.0	619.8	-2,009.6	-11,254,897.12	86,480,220.27	0° 31' 21.060 S	1978° 22' 8.351 E

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

*2/5/07*