

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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 any abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NM 28277
2. Name of Operator Energen Resources Corporation		6. If Indian, Allottee or Tribe Name
3a. Address 2198 Bloomfield Hwy, Farmington, NM 87401	3b. Phone No. (include area code) 505-325-6800	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) At surface: 2260 fnl, 435 fcl (H) S30, T32N, R4W At bottom 1: 660 fnl, 1980 fwl (C) S29, T32N, R4W At bottom 2: 2100 fnl, 1900 fwl (F) S29, T32N, R4W		8. Well Name and No. Arboles 29 A #11
		9. API Well No. 30-039-29954
		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	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Add second lateral</u>
	<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 recomple 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.)

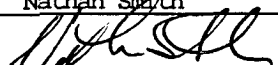
Energen Resources would like to make the following change and add an additional lateral to the Arboles 29 A #11:

Upon drilling the first or "parent" lateral, an open hole sidetrack will be done at 4930' MD, 3699' TVD and a second 6 1/4" lateral drilled to a TD of 6250' MD, 3699' TVD. The second 6 1/4" lateral will have a bottom hole location of 2100 fnl and 1900 fwl of section 29 as shown in the attached directional wellplan.

Attached is a revised C-102 and a new directional plans.

RCVD JUL 2 2007
OIL CONS. DIV.
DIST. 3

HOLD 0104 FOR Directional Survey

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Nathan Smith	Title Drilling Engineer
	Date 6/29/07

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Original Signed: Stephen Mason	Title	Date JUN 29 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.

NMCCD

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

RECEIVED
ELK

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code	⁵ Property Name Arboles 29 A	⁶ Well Number #11
⁷ OGRID No. 162928	⁸ Operator Name Energen Resources Corporation	⁹ Elevation 7221'

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
H	30	32N	4W		2265	North	450	East	Rio Arriba

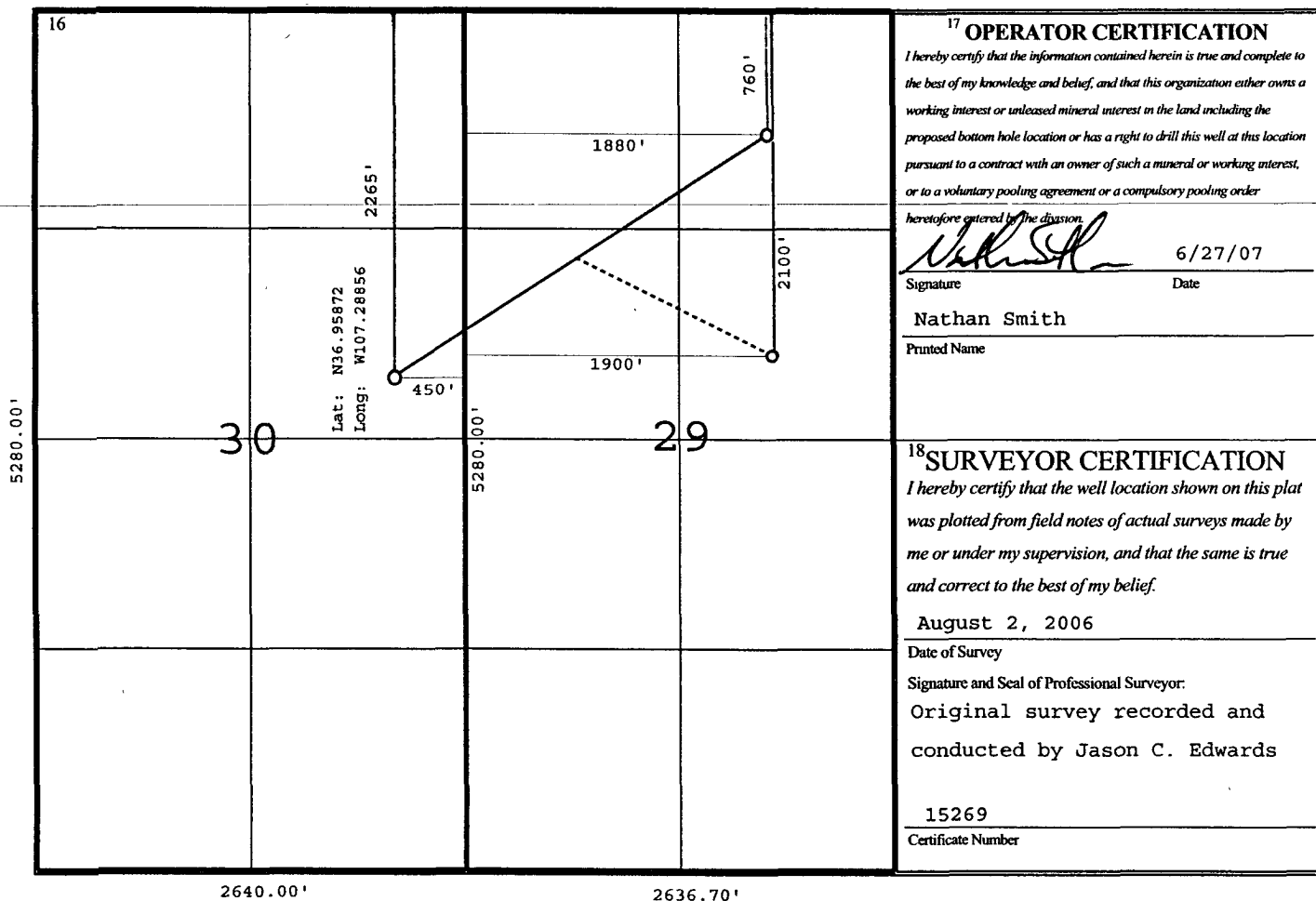
¹¹ Bottom Hole Location If Different From Surface

UL or lot no. BHL 1: C BHL 2: F	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	29	32N	4W		760 2100	North	1880 1900	West	Rio Arriba
¹² Dedicated Acres W/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

2640.00'

2634.72'



2007 JUN 29 AM 9:29

RECEIVED
BUREAU
210 EAST GUSTON NM

Energen Resources

Carson Natl Forest-S29, T32N, R4W

Carracas Mesa

Arboles 29 A #11

Side Lateral

Plan: Preliminary Plan

Final Design

29 June, 2007



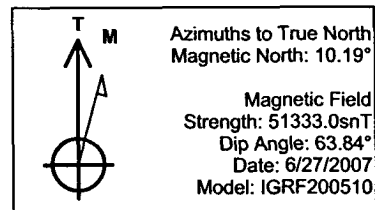
Project: Carson Natl Forest-S29, T32N, R4W

Site: Carracas Mesa

Well: Arboles 29 A #11

Wellbore: Side Lateral

Plan: Preliminary Plan (Arboles 29 A #11/Side Lateral)



PROJECT DETAILS: Carson Natl Forest-S29, T32N, R4W

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

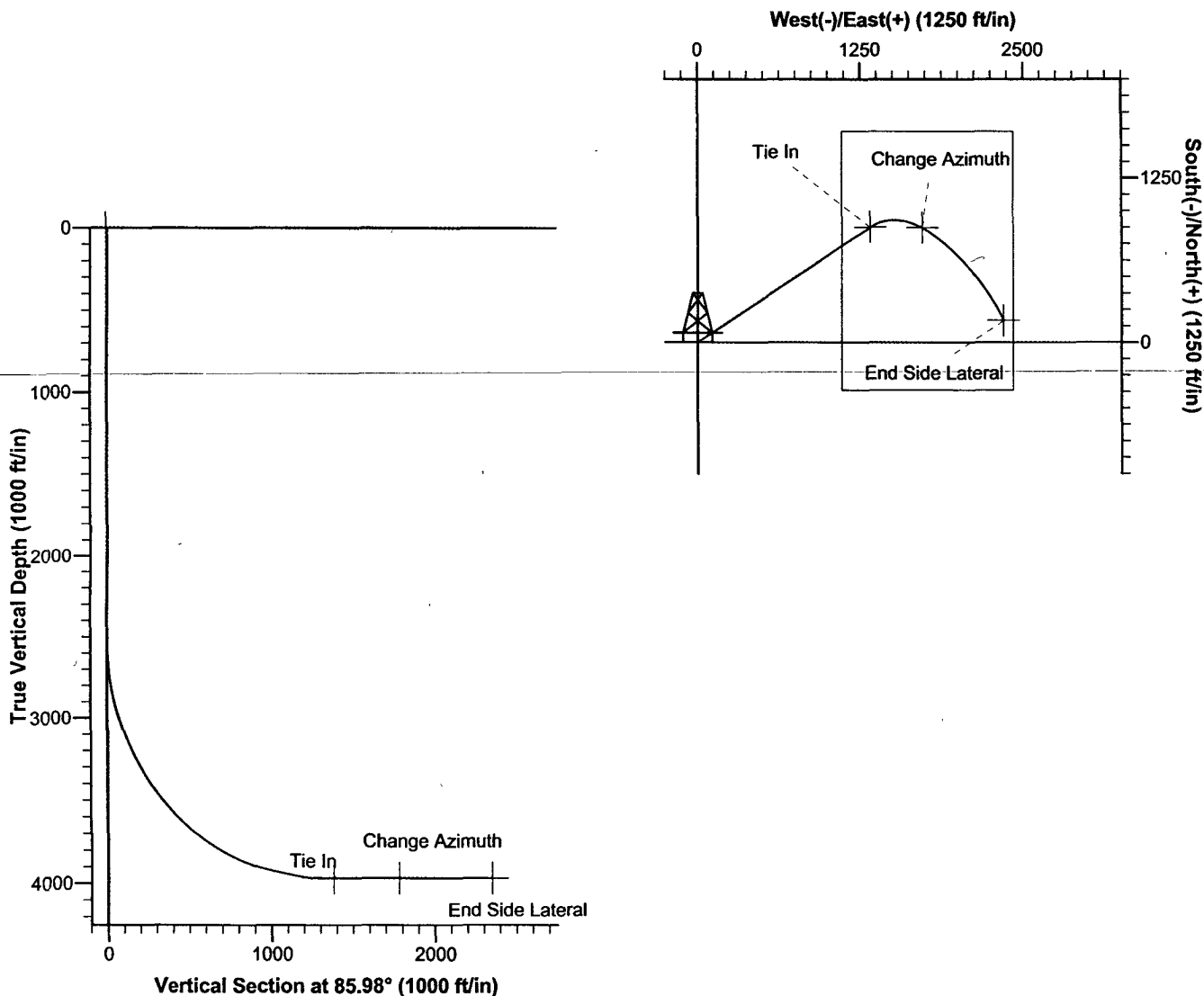
System Datum: Mean Sea Level

SURFACE LOCATION

Easting: 1336985.25
 Northing: 2169921.56

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	4930.0	90.01	56.59	3966.0	876.9	1327.6	0.00	0.00	1385.8	
2	5105.0	90.00	100.00	3966.0	911.6	1494.8	24.80	90.01	1555.0	
3	5230.0	90.00	124.80	3966.0	864.3	1609.5	19.84	90.00	1666.1	
4	6250.8	90.00	142.09	3966.0	165.0	2347.8	1.69	90.01	2353.6	End Side Lateral



Energen
Final Design



Company: Energen Resources
Project: Carson Natl Forest-S29, T32N, R4W
Site: Carracas Mesa
Well: Arboles 29 A #11
Wellbore: Side Lateral
Design: Preliminary Plan

Local Co-ordinate Reference: Well Arboles 29 A #11
TVD Reference: KB @ 7233.0ft (Patterson 749)
MD Reference: KB @ 7233.0ft (Patterson 749)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Project	Carson Natl Forest-S29, T32N, R4W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site	Carracas Mesa			
Site Position:		Northing:	2,169,921.56 ft	Latitude: 36° 57' 31.392 N
From:	Lat/Long	Easting:	1,336,985.25 ft	Longitude: 107° 17' 18.816 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence: -0.62 °

Well	Arboles 29 A #11			
Well Position	+N/-S	0.0 ft	Northing: 2,169,921.56 ft	Latitude: 36° 57' 31.392 N
	+E/-W	0.0 ft	Easting: 1,336,985.25 ft	Longitude: 107° 17' 18.816 W
Position Uncertainty	0.0 ft	Wellhead Elevation:	7,221.0 ft	Ground Level: 7,221.0 ft

Wellbore	Side Lateral				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF200510	6/27/2007	(°) 10.19	(°) 63.84	(nT) 51,333

Design	Preliminary Plan			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	4,930.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft) 0.0	(ft) 0.0	(ft) 0.0	(°) 85.98

Survey Tool Program	Date 6/29/2007			
From	To	Survey (Wellbore)	Tool Name	Description
(ft) 0.0	(ft) 4,930.0	Final Design (Planned Wellpath)	MWD	MWD - Standard
4,930.0	6,250.8	Preliminary Plan (Side Lateral)	MWD	MWD - Standard

Planned Survey								
MD	TVD	Inc	Azi	Build	V. Sec	N/S	E/W	
(ft)	(ft)	(°)	(°)	(°/100ft)	(ft)	(ft)	(ft)	
4,900.0	3,966.0	90.01	56.59	0.00	1,359.6	860.4	1,302.5	
4,930.0	3,966.0	90.01	56.59	0.00	1,385.8	876.9	1,327.6	
4,950.0	3,966.0	90.01	60.06	0.00	1,403.5	887.4	1,344.6	
4,975.0	3,966.0	90.01	64.41	0.00	1,426.4	899.1	1,366.7	
5,000.0	3,966.0	90.01	68.75	0.00	1,449.9	909.0	1,389.6	
5,025.0	3,966.0	90.00	73.09	0.00	1,474.1	917.2	1,413.2	
5,050.0	3,966.0	90.00	77.43	0.00	1,498.6	923.5	1,437.4	
5,075.0	3,966.0	90.00	81.77	0.00	1,523.5	928.0	1,462.0	
5,100.0	3,966.0	90.00	86.11	0.00	1,548.4	930.7	1,486.9	
5,125.0	3,966.0	90.00	90.45	0.00	1,573.4	931.4	1,511.8	
5,150.0	3,966.0	90.00	94.79	0.00	1,598.2	930.3	1,536.8	

Energen
Final Design



Company: Energen Resources
Project: Carson Natl Forest-S29, T32N, R4W
Site: Carracas Mesa
Well: Arboles 29 A #11
Wellbore: Side Lateral
Design: Preliminary Plan

Local Co-ordinate Reference: Well Arboles 29 A #11
TVD Reference: KB @ 7233.0ft (Patterson 749)
MD Reference: KB @ 7233.0ft (Patterson 749)
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)
5,175.0	3,966.0	90.00	99.13	0.00	1,622.8	927.3	1,561.6
5,180.0	3,966.0	90.00	100.00	0.00	1,627.6	926.4	1,566.5
5,200.0	3,966.0	90.00	102.20	0.00	1,646.9	922.6	1,586.2
5,250.0	3,966.0	90.00	107.72	0.00	1,694.2	909.7	1,634.5
5,300.0	3,966.0	90.00	113.23	0.00	1,739.7	892.2	1,681.3
5,350.0	3,966.0	90.00	118.74	0.00	1,783.0	870.3	1,726.2
5,405.0	3,966.0	90.00	124.80	0.00	1,827.6	841.4	1,772.9
5,500.0	3,966.0	90.00	127.94	0.00	1,899.9	785.0	1,849.4
5,600.0	3,966.0	90.00	131.25	0.00	1,972.3	721.3	1,926.5
5,700.0	3,966.0	90.00	134.55	0.00	2,040.6	653.2	1,999.7
5,800.0	3,966.0	90.00	137.86	0.00	2,104.6	581.1	2,068.9
5,900.0	3,966.0	90.00	141.16	0.00	2,164.0	505.0	2,133.8
6,000.0	3,966.0	90.00	144.47	0.00	2,218.7	425.4	2,194.3
6,100.0	3,966.0	90.00	147.78	0.00	2,268.5	342.3	2,250.0
6,200.0	3,966.0	90.00	151.08	0.00	2,313.2	256.3	2,300.9
6,302.6	3,966.0	90.00	154.48	0.00	2,353.6	165.0	2,347.8

End Side 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
Drilling Window - plan misses by 4262.1ft at 4900.0ft MD (3966.0 TVD, 860.4 N, 1302.5 E) - Rectangle (sides W1,970.0 H1,314.7 D0.0)	0.00	0.00	0.0	0.0	0.0	2,169,921.56	1,336,985.25	36° 57' 31.392 N	107° 17' 18.816 W
Tie In - plan hits target - Point	0.00	0.00	3,966.0	876.9	1,327.6	2,170,783.94	1,338,322.33	36° 57' 40.062 N	107° 17' 2.459 W
Change Azimuth - plan misses by 2.4ft at 5350.5ft MD (3966.0 TVD, 870.1 N, 1726.6 E) - Point	0.00	0.00	3,966.0	872.1	1,727.9	2,170,774.77	1,338,722.56	36° 57' 40.014 N	107° 16' 57.526 W
End Side Lateral - plan hits target - Point	0.00	0.00	3,966.0	165.0	2,347.8	2,170,060.96	1,339,334.71	36° 57' 33.022 N	107° 16' 49.889 W

Checked By: _____ Approved By: _____ Date: _____