

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

RECEIVED

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)
2265' FNL, 450' FEL Sec. 30, T32N, R04W
SE/NE (H)

5. Lease Serial No.
NM 28277

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
Arboles 29A # 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

- ☒ 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 type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other |
| <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | <u>Drill third</u> |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | <u>production lateral</u> |

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.)

Due to the liner being dropped off outside the 7" intermediate casing on the Arboles 29 A #11 and consequently losing the ability to enter the lined production lateral, thereby a complete loss in production, Energen Resources would like to come up inside the 7" intermediate casing string, set a whipstock, mill a window, and drill a third lateral to provide production for the subject well.

Whipstock set @ 4487' MD, 3919' TVD
Mill window from 4475'-4481' MD, 3916'-3917' TVD
Land curve @ 4781' MD, 3955' TVD
Drill lateral to 5916' MD, 3955' TVD

BHL for lateral #3 will be 1500 fnl, 700 fel.

The lateral will be lined with a pre-drilled liner to TD and dropped off no more than 2' outside the milled window in the Fruitland Formation.

Attached is a directional drilling plan and C-102 to depict this procedure.

- 14 I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Nathan Smith

Title

Drilling Engineer

Date 9/13/07

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Troy L. Salvors

Title

Petroleum Engineer

Date

10/4/2007

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

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.

NMOC

Revised for Sundry

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		Pool Code 71629	Pool Name Basin Fruitland Coal
Property Code	Property Name Arboles 29 A		Well Number #11
OGRID No. 162928	Operator Name Energen Resources Corporation		Elevation 7221'

10 Surface Location

UL or lot no. H	Section 30	Township 32N	Range 4W	Lot Idn	Feet from the 2265	North/South line North	Feet from the 450	East/West line East	County Rio Arriba
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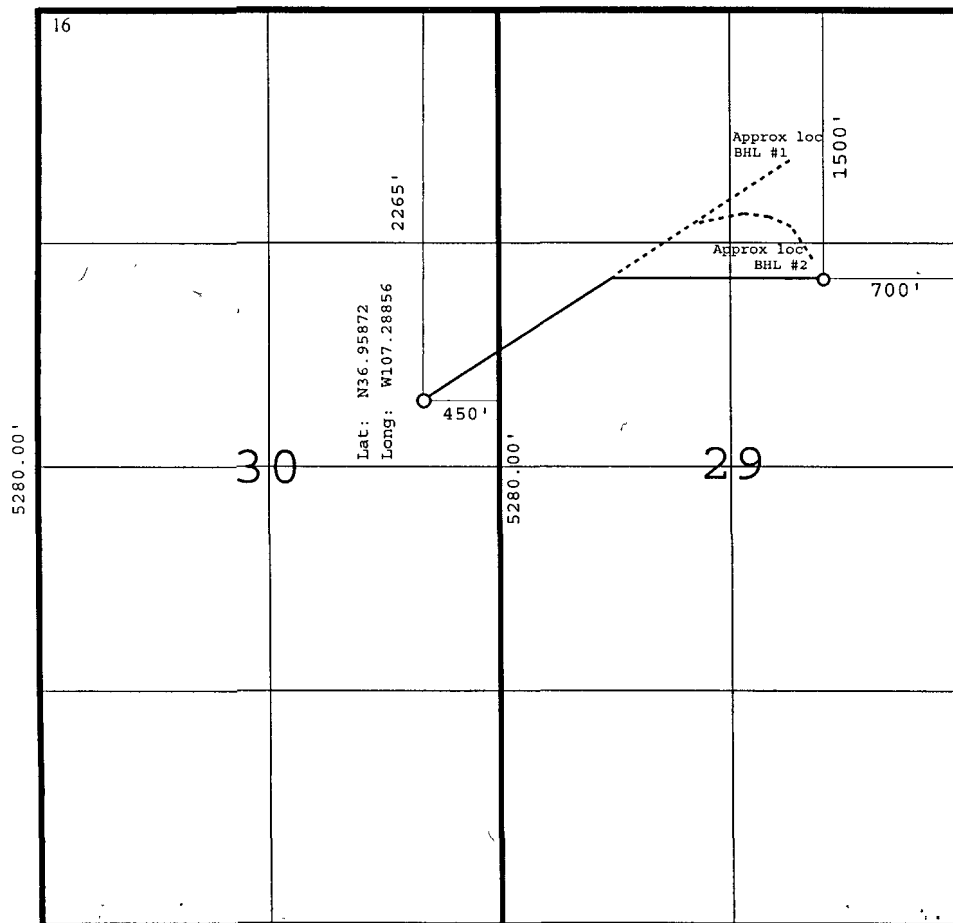
11 Bottom Hole Location If Different From Surface

UL or lot no. F	Section 29	Township 32N	Range 4W	Lot Idn	Feet from the 1500	North/South line North	Feet from the 700	East/West line West	County Rio Arriba
Dedicated Acres W/2	Joint or Infill	Consolidation Code	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'



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.

Nathan Smith 9/12/07
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 2, 2006

Date of Survey

Signature and Seal of Professional Surveyor.

Original survey recorded and conducted by Jason C. Edwards

15269
Certificate Number

Energen Resources

Carson Natl Forest-S29, T32N, R4W

Carracas Mesa

Arboles 29 A #11

3rd Lateral

Plan: Plan #1


Planned Wellpath

13 September, 2007



Project: Carson Natl Forest-S29, T32N, R4W
Site: Carracas Mesa
Well: Arboles 29 A #11
Wellbore: 3rd Lateral
Plan: Plan #1 (Arboles 29 A #11/3rd Lateral)

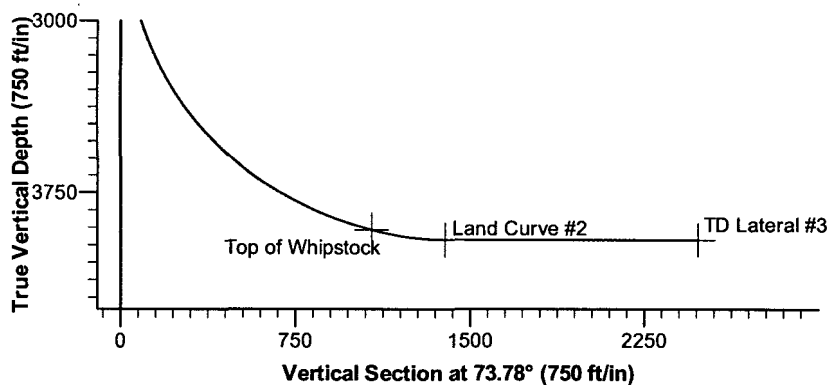
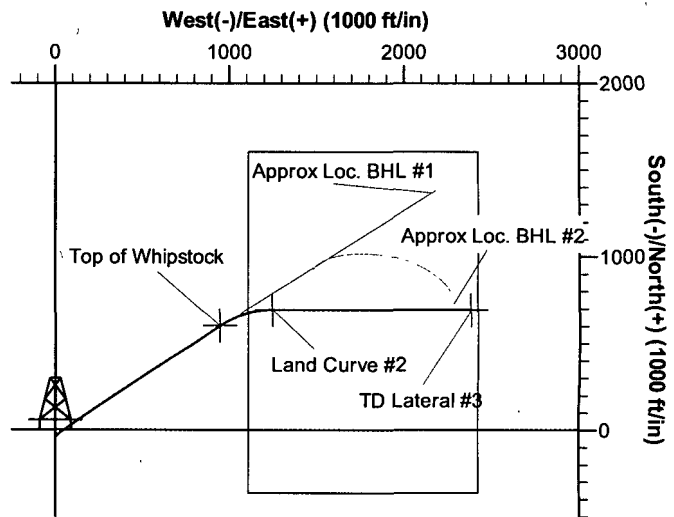
PROJECT DETAILS: Carson Natl Forest-S29, T32N, R4W	
Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico Central Zone
System Datum:	Mean Sea Level



Azimuths to True North
Magnetic North: 10.16°

Magnetic Field
Strength: 51312.7snT
Dip Angle: 63.84°
Date: 9/12/2007
Model: IGRF200510

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	4395.0	75.10	55.38	3896.0	568.1	898.3	0.00	0.00	1021.2	
2	4457.3	75.15	55.60	3912.0	602.2	947.9	0.36	77.75	1078.4	Top of Whipstock
3	4780.9	90.00	89.99	3955.0	693.8	1249.4	11.46	69.47	1393.5	Land Curve #2
4	5915.9	90.00	90.01	3955.0	693.8	2384.4	0.00	71.10	2483.3	TD Lateral #3



Energen
Planned Wellpath



Company:	Energen Resources	Local Co-ordinate Reference:	Well Arboles 29 A #11
Project:	Carson Natl Forest-S29, T32N, R4W	TVD Reference:	KB @ 7233.0ft (Patterson 749)
Site:	Carracas Mesa	MD Reference:	KB @ 7233.0ft (Patterson 749)
Well:	Arboles 29 A #11	North Reference:	True
Wellbore:	3rd Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	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
From:	Lat/Long	Easting:	1,336,985.25 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	36° 57' 31.392 N
		Longitude:	107° 17' 18.816 W
		Grid Convergence:	-0.62 °

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

Wellbore:	3rd Lateral				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	9/12/2007	10.17	63.84	51,313

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	4,395.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	73.78

Survey Tool Program:	Date	9/13/2007			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	4,395.0	End of Well Report (Final Survey)	MWD	MWD - Standard	
4,395.0	5,915.9	Plan #1 (3rd Lateral)	MWD	MWD - Standard	

Planned Survey:								
MD (ft)	TVD (ft)	Inc (°)	Azi (°)	Build (°/100ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	
4,400.0	3,897.3	75.10	55.40	0.08	1,025.8	570.8	902.3	
4,457.3	3,912.0	75.15	55.60	0.08	1,078.4	602.2	947.9	
Top of Whipstock								
4,475.0	3,916.4	75.87	57.56	4.07	1,094.8	611.6	962.2	
4,500.0	3,922.3	76.91	60.31	4.17	1,118.3	624.2	983.0	
4,525.0	3,927.8	77.98	63.03	4.29	1,142.1	635.8	1,004.5	
4,550.0	3,932.7	79.08	65.73	4.39	1,166.3	646.3	1,026.6	
4,575.0	3,937.2	80.20	68.41	4.49	1,190.7	655.9	1,049.2	
4,600.0	3,941.2	81.34	71.08	4.57	1,215.3	664.5	1,072.4	
4,625.0	3,944.7	82.50	73.72	4.64	1,240.1	671.9	1,096.0	
4,650.0	3,947.7	83.68	76.35	4.71	1,264.9	678.4	1,120.0	

Energen Planned Wellpath



Company:	Energen Resources	Local Co-ordinate Reference:	Well Arboles 29 A #11
Project:	Carson Natl Forest-S29, T32N, R4W	TVD Reference:	KB @ 7233.0ft (Patterson 749)
Site:	Carracas Mesa	MD Reference:	KB @ 7233.0ft (Patterson 749)
Well:	Arboles 29 A #11	North Reference:	True
Wellbore:	3rd Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	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)
4,675.0	3,950.2	84.87	78.97	4.76	1,289.7	683.7	1,144.3
4,700.0	3,952.2	86.07	81.58	4.80	1,314.5	687.9	1,168.8
4,725.0	3,953.7	87.28	84.19	4.83	1,339.1	691.0	1,193.6
4,750.0	3,954.6	88.49	86.78	4.85	1,363.6	692.9	1,218.5
4,775.0	3,955.0	89.71	89.38	4.87	1,387.8	693.8	1,243.5
4,780.9	3,955.0	90.00	89.99	4.87	1,393.5	693.8	1,249.4
Land Curve #2							
4,800.0	3,955.0	90.00	89.99	0.00	1,411.8	693.8	1,268.5
4,900.0	3,955.0	90.00	89.99	0.00	1,507.8	693.8	1,368.5
5,000.0	3,955.0	90.00	90.00	0.00	1,603.8	693.8	1,468.5
5,100.0	3,955.0	90.00	90.00	0.00	1,699.8	693.8	1,568.5
5,200.0	3,955.0	90.00	90.00	0.00	1,795.9	693.8	1,668.5
5,300.0	3,955.0	90.00	90.00	0.00	1,891.9	693.8	1,768.5
5,400.0	3,955.0	90.00	90.00	0.00	1,987.9	693.8	1,868.5
5,500.0	3,955.0	90.00	90.00	0.00	2,083.9	693.8	1,968.5
5,600.0	3,955.0	90.00	90.00	0.00	2,179.9	693.8	2,068.5
5,700.0	3,955.0	90.00	90.00	0.00	2,276.0	693.8	2,168.5
5,800.0	3,955.0	90.00	90.01	0.00	2,372.0	693.8	2,268.5
5,900.0	3,955.0	90.00	90.01	0.00	2,468.0	693.8	2,368.5
5,915.9	3,955.0	90.00	90.01	0.00	2,483.3	693.8	2,384.4
TD Lateral #3							

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Legal Window	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
- plan misses by 4040.9ft at 4400.0ft MD (3897.3 TVD, 570.8 N, 902.3 E)									
- Rectangle (sides W1,970.0 H1,314.7 D0.0)									
Land Curve #2	0.00	0.00	3,955.0	693.8	1,249.4	2,170,601.70	1,338,242.14	36° 57' 38.252 N	107° 17' 3.422 W
- plan hits target									
- Point									
TD Lateral #3	0.00	0.00	3,955.0	693.8	2,384.4	2,170,589.33	1,339,377.07	36° 57' 38.251 N	107° 16' 49.438 W
- plan hits target									
- Point									
Top of Whipstock	0.00	0.00	3,912.0	602.2	947.9	2,170,513.39	1,337,939.66	36° 57' 37.346 N	107° 17' 7.137 W
- plan hits target									
- Point									

Checked By: _____ Approved By: _____ Date: _____