

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.

2007 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: 1490' fsl, 790' fw1 20-32N-4W

At bottom: 1980' fsl, 2624' fw1

5. Lease Serial No.

NM 28277

6. If Indian, Allottee or Tribe Name

7 AM 6:22

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

8. Well Name and No.

Arboles 20 A #1R

9. API Well No.

30-039-27453

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 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 would like to do a recompleation of the Arboles 20 A #1R as follows:

RCVD APR 6 '07
OIL CONS. DIV.

DIST. 3

- Set a bridge plug and retrievable mechanical set whipstock at 3928' TVD.
 - Mill a 6 1/4" window in the existing 7" 23 ppf intermediate casing.
 - Drill a 6 1/4" wellbore with a build up rate of 24.9 deg/100 ft.
 - Land curve at 90 deg in the Fruitland Coal at 4158' TVD.
 - Drill remaining lateral to TD of 5957' MD, 4158' TVD according to the attached directional plan.
 - Run a 3 1/2" FJ 9.3 ppf, J-55 pre-drilled uncemented liner from 3930'-5957' MD.
- 4 1/2" J-55, SEC, 116 ppf

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

HOLD C104 FOR *directional survey + BH survey*14. 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.

NM 0000

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 30-039-27453		Pool Code 71629	Pool Name Basin Fruitland Coal
Property Code	Property Name Arboles 20 A		Well Number #1R
OGRID No. 162928	Operator Name Energen Resources Corporation		Elevation 7405'

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
L	20	32N	04W		1490'	South	790'	West	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
K	20	32N	04W		1980'	South	2624'	West	Rio Arriba

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320.00 S/2			

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.

5270.10'

<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">2640.0</div> <div style="border: 1px solid black; padding: 10px; margin: 5px;"> <p>16</p> <p style="text-align: center; font-size: 2em;">20</p> <p>790' SHL</p> <p>1490'</p> <p>2624'</p> <p>BHL</p> <p>1980'</p> </div> </div>	<p>17 OPERATOR CERTIFICATION</p> <p><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></p> <p style="text-align: right;">  1/10/2007 Signature Date </p> <p>Nathan Smith Printed Name</p>
	<p>18 SURVEYOR CERTIFICATION</p> <p><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></p> <p style="text-align: center;">April 16, 2003</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> <p style="text-align: center;">Original survey conducted and recorded by Jason C. Edwards</p> <p style="text-align: center;">15269</p> <p>Certificate Number</p>

5269.44'

Energen Resources

Carson Nat'l Forest; S20, T32N, R4W

Carracas Mesa

Arboles 20 A #1R

Arboles 20 A #1R ST

API No.: 30-039-27453

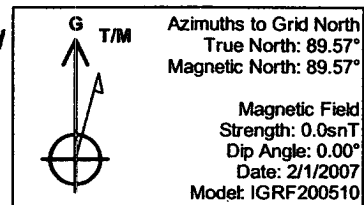
Plan: Preliminary Design

Energen Resources - Survey

01 February, 2007



Project: Carson Nat'l Forest; S20, T32N, R4W
Site: Carracas Mesa
Well: Arboles 20 A #1R
Wellbore: Arboles 20 A #1R ST
Plan: Preliminary Design (Arboles 20 A #1R/Arboles 20 A #1R ST)

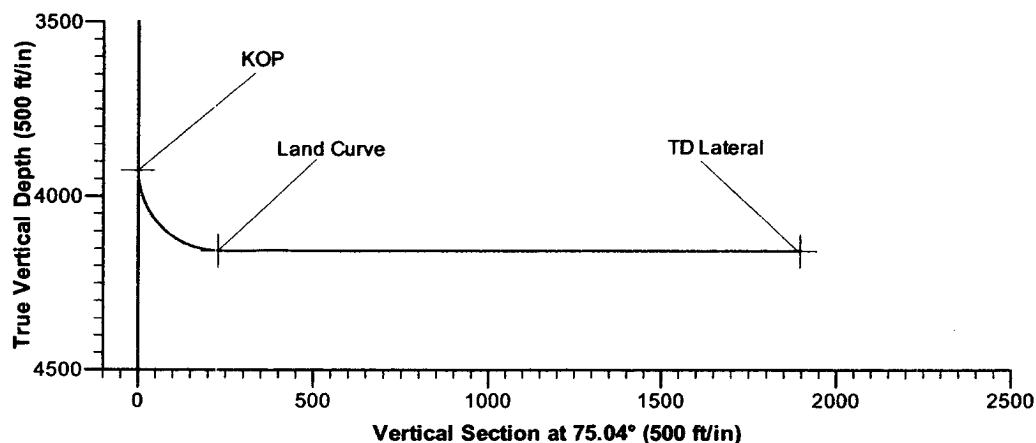
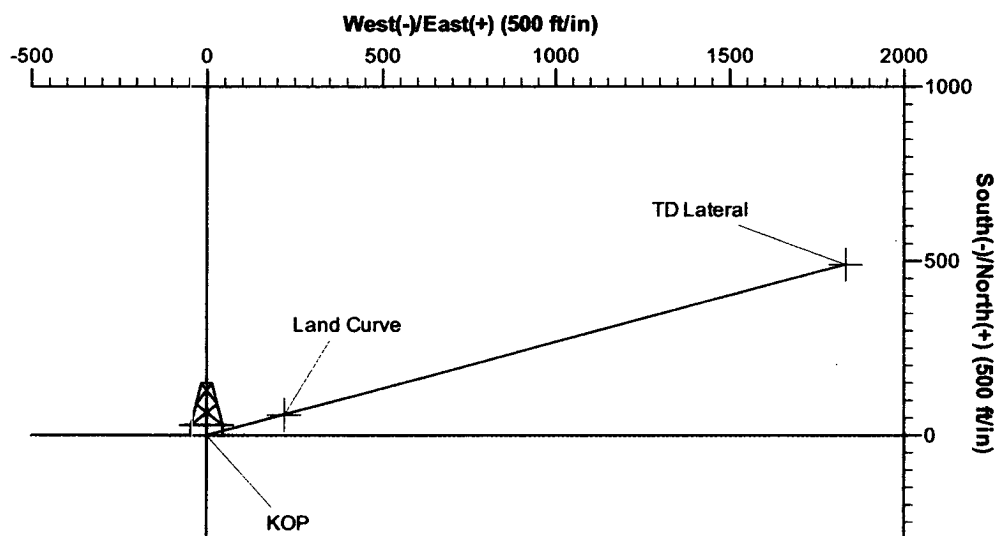


PROJECT DETAILS: Carson Nat'l Forest; S20, T32N, R4W	
Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico Western Zone
System Datum:	Mean Sea Level

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	3928.0	0.00	0.00	3928.0	0.0	0.0	0.00	0.00	0.0	KOP
3	4289.3	90.00	75.04	4158.0	59.4	222.2	24.91	75.04	230.0	Land Curve
4	5957.3	90.00	75.04	4158.0	490.0	1833.7	0.00	0.00	1898.0	TD Lateral



Energen

Energen Resources - Survey



Company: Energen Resources	Local Co-ordinate Reference: Well Arboles 20 A #1R	
Project: Carson Nat'l Forest; S20, T32N, R4W	TVD Reference: KB @ 7420.0ft (Drilling Rig)	
Site: Carracas Mesa	MD Reference: KB @ 7420.0ft (Drilling Rig)	
Well: Arboles 20 A #1R	North Reference: Grid	
Wellbore: Arboles 20 A #1R ST	Survey Calculation Method: Minimum Curvature	
Design: Preliminary Design	Database: EDM 2003.16 Single User Db	

Project	Carson Nat'l Forest; S20, T32N, R4W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

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

Well	Arboles 20 A #1R		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty	0.0 ft	Wellhead Elevation:	7,405.0 ft
		Latitude:	0° 0' 0.000 N
		Longitude:	1978° 37' 36.621 E
		Ground Level:	7,405.0 ft

Wellbore	Arboles 20 A #1R ST		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF200510	2/1/2007	
		Dip Angle (°)	Field Strength (nT)

Design	Preliminary Design		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)
	0.0	0.0	0.0
			Direction (°)
			75.04

Survey Tool Program	Date 2/1/2007		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name
0.0	5,957.3	Preliminary Design (Arboles 20 A #1R ST)	MWD
			Description
			MWD - Standard

Planned Survey						
MD (ft)	TVD (ft)	Inc (°)	Azi (°)	V. Sec (ft)	N/S (ft)	E/W (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



Company: Energen Resources
Project: Carson Nat'l Forest; S20, T32N, R4W
Site: Carracas Mesa
Well: Arboles 20 A #1R
Wellbore: Arboles 20 A #1R ST
Design: Preliminary Design

Local Co-ordinate Reference: Well Arboles 20 A #1R
TVD Reference: KB @ 7420.0ft (Drilling Rig)
MD Reference: KB @ 7420.0ft (Drilling Rig)
North Reference: Grid
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
3,800.0	3,800.0	0.00	0.00	0.0	0.0	0.0
3,900.0	3,900.0	0.00	0.00	0.0	0.0	0.0
3,928.0	3,928.0	0.00	0.00	0.0	0.0	0.0
KOP						
3,940.0	3,940.0	2.99	75.04	0.3	0.1	0.3
3,960.0	3,959.9	7.97	75.04	2.2	0.6	2.1
3,980.0	3,979.6	12.95	75.04	5.9	1.5	5.7
4,000.0	3,998.8	17.94	75.04	11.2	2.9	10.8
4,020.0	4,017.6	22.92	75.04	18.2	4.7	17.5
4,040.0	4,035.6	27.90	75.04	26.7	6.9	25.8
4,060.0	4,052.9	32.88	75.04	36.8	9.5	35.6
4,080.0	4,069.2	37.87	75.04	48.4	12.5	46.8
4,100.0	4,084.4	42.85	75.04	61.4	15.8	59.3
4,120.0	4,098.5	47.83	75.04	75.6	19.5	73.0
4,140.0	4,111.2	52.81	75.04	91.0	23.5	87.9
4,160.0	4,122.6	57.79	75.04	107.4	27.7	103.8
4,180.0	4,132.5	62.78	75.04	124.8	32.2	120.6
4,200.0	4,140.9	67.76	75.04	142.9	36.9	138.1

Energen

Energen Resources - Survey



Company: Energen Resources
Project: Carson Nat'l Forest; S20, T32N, R4W
Site: Carracas Mesa
Well: Arboles 20 A #1R
Wellbore: Arboles 20 A #1R ST
Design: Preliminary Design

Local Co-ordinate Reference: Well Arboles 20 A #1R
TVD Reference: KB @ 7420.0ft (Drilling Rig)
MD Reference: KB @ 7420.0ft (Drilling Rig)
North Reference: Grid
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)
4,220.0	4,147.6	72.74	75.04	161.8	41.8	156.3
4,240.0	4,152.7	77.72	75.04	181.1	46.7	175.0
4,260.0	4,156.1	82.71	75.04	200.8	51.8	194.0
4,280.0	4,157.8	87.69	75.04	220.7	57.0	213.2
4,289.3	4,158.0	90.00	75.04	230.0	59.4	222.2

Land Curve

4,300.0	4,158.0	90.00	75.04	240.7	62.1	232.6
4,400.0	4,158.0	90.00	75.04	340.7	88.0	329.2
4,500.0	4,158.0	90.00	75.04	440.7	113.8	425.8
4,600.0	4,158.0	90.00	75.04	540.7	139.6	522.4
4,700.0	4,158.0	90.00	75.04	640.7	165.4	619.0
4,800.0	4,158.0	90.00	75.04	740.7	191.2	715.6
4,900.0	4,158.0	90.00	75.04	840.7	217.0	812.2
5,000.0	4,158.0	90.00	75.04	940.7	242.8	908.8
5,100.0	4,158.0	90.00	75.04	1,040.7	268.7	1,005.4
5,200.0	4,158.0	90.00	75.04	1,140.7	294.5	1,102.1
5,300.0	4,158.0	90.00	75.04	1,240.7	320.3	1,198.7
5,400.0	4,158.0	90.00	75.04	1,340.7	346.1	1,295.3
5,500.0	4,158.0	90.00	75.04	1,440.7	371.9	1,391.9
5,600.0	4,158.0	90.00	75.04	1,540.7	397.7	1,488.5
5,700.0	4,158.0	90.00	75.04	1,640.7	423.5	1,585.1
5,800.0	4,158.0	90.00	75.04	1,740.7	449.4	1,681.7
5,900.0	4,158.0	90.00	75.04	1,840.7	475.2	1,778.3
5,957.3	4,158.0	90.00	75.04	1,898.0	490.0	1,833.7

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	360.00	3,928.0	0.0	0.0	-11,255,516.89	86,482,229.87	0° 0' 0.000 N	1978° 37' 36.621 E
Land Curve - plan hits target - Point	0.00	0.00	4,158.0	59.4	222.2	-11,255,457.52	86,482,452.07	0° 3' 0.234 S	1978° 39' 19.273 E
TD Lateral - plan hits target - Point	0.00	0.00	4,158.0	490.0	1,833.7	-11,255,026.93	86,484,063.54	0° 24' 47.498 S	1978° 51' 43.776 E

Checked By: _____

Approved By: _____

Date: _____

2/15/07