

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.

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

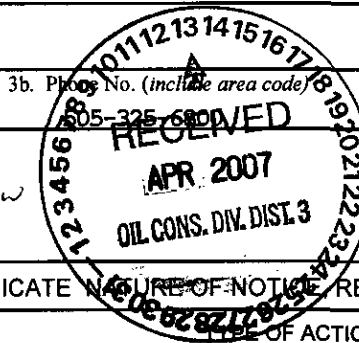
2198 Bloomfield Hwy, Farmington, NM 87401

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

At surface: 2620' fsl, 1235' fwl

At bottom: 660' fsl, 660' fwl

19 - 32 N - 4 W



RECEIVED
BLM
210 FARMINGTON, NM

5. Lease Serial No.

NMM 30015

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Carracas 19 B #11

9. API Well No.

30-039-27564

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

☐ 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 make the following changes to Carracas 19 B #11 recompleation sundry submitted on 2/5/07 and approved on 4/2/07 as follows:

-Change the bottom hole location (BHL) to 660 fsl, 660 fwl.

-Change the azimuth of the directional drill path as indicated on the attached revised C-102' and directional drill plan. The new TD of the well will be 5956' (MD), 4013' (TVD).

-Change the 4 1/2" liner to a 3 1/2" FU, J-55, 9.7 ppf predrilled production liner with a wellbore diameter of 4 3/4".

All other wellwork operations will remain the same as outlined in the previously approved sundry and as outlined in the conditions of approval by both the USFS and BLM.

This change will allow for the production lateral to be drilled up-dip for better produced water drainage.

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 4/12/07

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

APR 12 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

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

2007 APR 12 AM 10:02
RECEIVED
BLI ☒ AMENDED REPORT
210 FARMINGTON BLVD

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30-039-27564	'Pool Code 71629	'Pool Name Basin Fruitland Coal
'Property Code	'Property Name Carracas 19 B	'Well Number #11
'OGRID No. 162928	'Operator Name Energen Resources Corporation	'Elevation 7318'

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	19	32N	04W		2620'	South	1235'	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
N	19	32N	04W		660'	South	660'	West	Rio Arriba

"Dedicated Acres	"Joint or Infill	"Consolidation Code	"Order No.
300.52 W/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.

1156.98 1320.00 2640.00

	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. Signature: <i>Nathan Smith</i> Date: 4/11/2007 Printed Name: Nathan Smith
	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. October 16, 2003 Date of Survey Signature and Seal of Professional Surveyor: Original survey conducted and recorded by Jason C. Edwards 15269 Certificate Number

5280.00

Energen Resources

Carson Nat'l Forest-S19, T32N, R4W

Carracas Mesa

Carracas 19 B #11

Carracas 19 B #11 ST

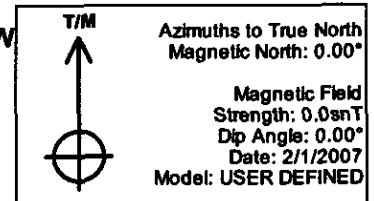
Plan: Plan #1

Energen Resources - Design

11 April, 2007



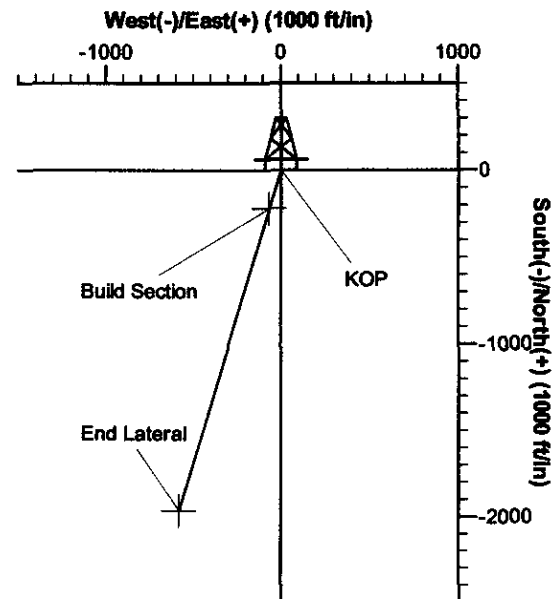
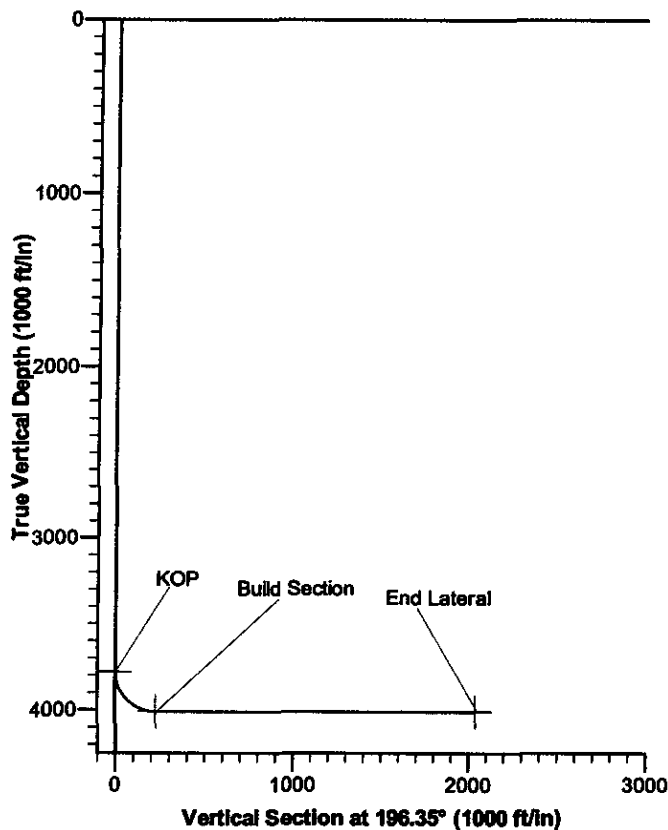
Project: Carson Nat'l Forest-S19, T32N, R4W
Site: Carracas Mesa
Well: Carracas 19 B #11
Wellbore: Carracas 19 B #11 ST
Plan: Plan #1 (Carracas 19 B #11/Carracas 19 B #11 ST)



PROJECT DETAILS: Carson Nat'l Forest-S19, 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:	0.00
Northing:	0.00

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	3783.0	0.00	0.00	3783.0	0.0	0.0	0.00	0.00	0.0	KOP
3	4144.3	90.00	196.35	4013.0	-220.7	-64.7	24.91	196.35	230.0	Build Section
4	5956.3	90.00	196.35	4013.0	-1959.4	-574.8	0.00	0.00	2042.0	End Lateral



Energen
Energen Resources - Design



Company:	Energen Resources	Local Co-ordinate Reference:	Well Carracas 19 B #11
Project:	Carson Nat'l Forest-S19, T32N, R4W	TVD Reference:	KB @ 7333.0ft (Drilling Rig)
Site:	Carracas Mesa	MD Reference:	KB @ 7333.0ft (Drilling Rig)
Well:	Carracas 19 B #11	North Reference:	True
Wellbore:	Carracas 19 B #11 ST	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003.16 Single User Db

Project:	Carson Nat'l Forest-S19, 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:	ft
From:	None	Easting:	ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	
		Longitude:	
		Grid Convergence:	0.00 °

Well:	Carracas 19 B #11		
Well Position	+N/-S	0.0 ft	Northing: 0.00 ft
	+E/-W	0.0 ft	Easting: 0.00 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	7,318.0 ft
		Ground Level:	7,318.0 ft
		Latitude:	30° 42' 36.034 N
		Longitude:	116° 28' 58.264 W

Wellbore:	Carracas 19 B #11 ST		
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Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	User Defined	2/1/2007	(°)	(°)	(nT)
			0.00	0.00	0

Design	Plan #1		
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Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	196.35

Survey Tool Program	Date 4/11/2007		
From	To	Survey (Wellbore)	Tool Name
(ft)	(ft)		
0.0	5,956.3	Plan #1 (Carracas 19 B #11 ST)	MWD
			Description
			MWD - Standard

Planned Survey								
MD	TVD	Inc	Azi	Build	V. Sec	Northing	Easting	
(ft)	(ft)	(°)	(°)	(°/100ft)	(ft)	(ft)	(ft)	
0.0	0.0	0.00	0.00	0.00	0.0	0.00	0.00	
100.0	100.0	0.00	0.00	0.00	0.0	0.00	0.00	
200.0	200.0	0.00	0.00	0.00	0.0	0.00	0.00	
300.0	300.0	0.00	0.00	0.00	0.0	0.00	0.00	
400.0	400.0	0.00	0.00	0.00	0.0	0.00	0.00	
500.0	500.0	0.00	0.00	0.00	0.0	0.00	0.00	
600.0	600.0	0.00	0.00	0.00	0.0	0.00	0.00	
700.0	700.0	0.00	0.00	0.00	0.0	0.00	0.00	
800.0	800.0	0.00	0.00	0.00	0.0	0.00	0.00	
900.0	900.0	0.00	0.00	0.00	0.0	0.00	0.00	
1,000.0	1,000.0	0.00	0.00	0.00	0.0	0.00	0.00	
1,100.0	1,100.0	0.00	0.00	0.00	0.0	0.00	0.00	

Energen
Energen Resources - Design



Company: Energen Resources
Project: Carson Nat'l Forest-S19, T32N, R4W
Site: Carracas Mesa
Well: Carracas 19 B #11
Wellbore: Carracas 19 B #11 ST
Design: Plan #1

Local Co-ordinate Reference: Well Carracas 19 B #11
TVD Reference: KB @ 7333.0ft (Drilling Rig)
MD Reference: KB @ 7333.0ft (Drilling Rig)
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)	Northing (ft)	Easting (ft)
1,200.0	1,200.0	0.00	0.00	0.00	0.0	0.00	0.00
1,300.0	1,300.0	0.00	0.00	0.00	0.0	0.00	0.00
1,400.0	1,400.0	0.00	0.00	0.00	0.0	0.00	0.00
1,500.0	1,500.0	0.00	0.00	0.00	0.0	0.00	0.00
1,600.0	1,600.0	0.00	0.00	0.00	0.0	0.00	0.00
1,700.0	1,700.0	0.00	0.00	0.00	0.0	0.00	0.00
1,800.0	1,800.0	0.00	0.00	0.00	0.0	0.00	0.00
1,900.0	1,900.0	0.00	0.00	0.00	0.0	0.00	0.00
2,000.0	2,000.0	0.00	0.00	0.00	0.0	0.00	0.00
2,100.0	2,100.0	0.00	0.00	0.00	0.0	0.00	0.00
2,200.0	2,200.0	0.00	0.00	0.00	0.0	0.00	0.00
2,300.0	2,300.0	0.00	0.00	0.00	0.0	0.00	0.00
2,400.0	2,400.0	0.00	0.00	0.00	0.0	0.00	0.00
2,500.0	2,500.0	0.00	0.00	0.00	0.0	0.00	0.00
2,600.0	2,600.0	0.00	0.00	0.00	0.0	0.00	0.00
2,700.0	2,700.0	0.00	0.00	0.00	0.0	0.00	0.00
2,800.0	2,800.0	0.00	0.00	0.00	0.0	0.00	0.00
2,900.0	2,900.0	0.00	0.00	0.00	0.0	0.00	0.00
3,000.0	3,000.0	0.00	0.00	0.00	0.0	0.00	0.00
3,100.0	3,100.0	0.00	0.00	0.00	0.0	0.00	0.00
3,200.0	3,200.0	0.00	0.00	0.00	0.0	0.00	0.00
3,300.0	3,300.0	0.00	0.00	0.00	0.0	0.00	0.00
3,400.0	3,400.0	0.00	0.00	0.00	0.0	0.00	0.00
3,500.0	3,500.0	0.00	0.00	0.00	0.0	0.00	0.00
3,600.0	3,600.0	0.00	0.00	0.00	0.0	0.00	0.00
3,700.0	3,700.0	0.00	0.00	0.00	0.0	0.00	0.00
3,783.0	3,783.0	0.00	0.00	0.00	0.0	0.00	0.00
KOP							
3,800.0	3,800.0	4.23	196.35	24.91	0.6	-0.59	-0.22
3,820.0	3,819.8	9.22	196.35	24.91	3.0	-2.78	-1.05
3,840.0	3,839.4	14.20	196.35	24.91	7.0	-6.57	-2.49
3,860.0	3,858.6	19.18	196.35	24.91	12.8	-11.94	-4.52
3,880.0	3,877.1	24.16	196.35	24.91	20.2	-18.85	-7.14
3,900.0	3,895.0	29.15	196.35	24.91	29.1	-27.23	-10.32
3,920.0	3,912.0	34.13	196.35	24.91	39.6	-37.04	-14.03
3,940.0	3,928.1	39.11	196.35	24.91	51.5	-48.19	-18.26
3,960.0	3,943.0	44.09	196.35	24.91	64.8	-60.61	-22.96
3,980.0	3,956.8	49.08	196.35	24.91	79.3	-74.19	-28.11
4,000.0	3,969.2	54.06	196.35	24.91	95.0	-88.83	-33.66
4,020.0	3,980.2	59.04	196.35	24.91	111.7	-104.43	-39.57
4,040.0	3,989.8	64.02	196.35	24.91	129.3	-120.87	-45.79
4,060.0	3,997.7	69.00	196.35	24.91	147.6	-138.02	-52.29
4,080.0	4,004.1	73.99	196.35	24.91	166.6	-155.75	-59.01
4,100.0	4,008.8	78.97	196.35	24.91	186.0	-173.93	-65.90

Energen
Energen Resources - Design



Company:	Energen Resources	Local Co-ordinate Reference:	Well Carracas 19 B #11
Project:	Carson Nat'l Forest-S19, T32N, R4W	TVD Reference:	KB @ 7333.0ft (Drilling Rig)
Site:	Carracas Mesa	MD Reference:	KB @ 7333.0ft (Drilling Rig)
Well:	Carracas 19 B #11	North Reference:	True
Wellbore:	Carracas 19 B #11 ST	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)	Northing (ft)	Easting (ft)
4,120.0	4,011.7	83.95	196.35	24.91	205.8	-192.41	-72.90
4,140.0	4,013.0	88.93	196.35	24.91	225.7	-211.08	-79.97
4,144.3	4,013.0	90.00	196.35	24.91	230.0	-215.08	-81.49
Build Section							
4,200.0	4,013.0	90.00	196.35	0.00	285.7	-267.18	-101.23
4,300.0	4,013.0	90.00	196.35	0.00	385.7	-360.70	-136.66
4,400.0	4,013.0	90.00	196.35	0.00	485.7	-454.21	-172.09
4,500.0	4,013.0	90.00	196.35	0.00	585.7	-547.72	-207.52
4,600.0	4,013.0	90.00	196.35	0.00	685.7	-641.24	-242.95
4,700.0	4,013.0	90.00	196.35	0.00	785.7	-734.75	-278.38
4,800.0	4,013.0	90.00	196.35	0.00	885.7	-828.26	-313.81
4,900.0	4,013.0	90.00	196.35	0.00	985.7	-921.78	-349.24
5,000.0	4,013.0	90.00	196.35	0.00	1,085.7	-1,015.29	-384.67
5,100.0	4,013.0	90.00	196.35	0.00	1,185.7	-1,108.80	-420.10
5,200.0	4,013.0	90.00	196.35	0.00	1,285.7	-1,202.31	-455.53
5,300.0	4,013.0	90.00	196.35	0.00	1,385.7	-1,295.83	-490.96
5,400.0	4,013.0	90.00	196.35	0.00	1,485.7	-1,389.34	-526.39
5,500.0	4,013.0	90.00	196.35	0.00	1,585.7	-1,482.85	-561.82
5,600.0	4,013.0	90.00	196.35	0.00	1,685.7	-1,576.37	-597.25
5,700.0	4,013.0	90.00	196.35	0.00	1,785.7	-1,669.88	-632.68
5,800.0	4,013.0	90.00	196.35	0.00	1,885.7	-1,763.39	-668.11
5,900.0	4,013.0	90.00	196.35	0.00	1,985.7	-1,856.91	-703.54
5,956.3	4,013.0	90.00	196.35	0.00	2,042.0	-1,909.54	-723.48
End Lateral							

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									
KOP	0.00	355.60	3,783.0	0.0	0.0	0.00	0.00	30° 42' 36.034 N	116° 28' 58.264 W
- plan hits target									
- Point									
End Lateral	0.00	355.60	4,013.0	-1,959.4	-574.8	-1,909.54	-723.48	30° 42' 16.799 N	116° 29' 4.777 W
- plan hits target									
- Point									
Build Section	0.00	355.60	4,013.0	-220.7	-64.7	-215.08	-81.49	30° 42' 33.868 N	116° 28' 58.997 W
- plan hits target									
- Point									

Checked By: _____ Approved By: _____ Date: _____