

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.

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: 1500 fnl, 1020 fel

At bottom: 2530 fnl, 1880 fel

Sec 35-32N-5W

5. Lease Serial No.

NM 2002 29340

6. If Indian, Allottee or Tribe Name

2007 MAY -3 AM 10:50

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

8. Well Name and No.

Carracas Unit 35 A #8

9. API Well No.

30-039-24411

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 recompleting 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 recompleting 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 Unit 35 A #8 recompleting sundry submitted on 3/20/06 and approved on 3/28/06 as follows:

-Change the bottom hole location (BHL) to 2530 fnl, 1880 fel.

-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 4920' (MD), 3661' (TVD).

-Run a 3 1/2" EJ, J-55, 9.7 ppf pre-drilled liner from 3472' to 4920' (MD).

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

HOLD C104 FOR *directional*
Survey

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

RCVD MAY22'07
OIL CONS. DIV.
DIST. 3

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Nathan Smith

Title

Drilling Engineer

Date 5/3/2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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.

NMOCN

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | | | | | |
|------------------------------|--|--|--|-------------------------------------|----------------------|--|
| 1 API Number 30-039-24411 | | 2 Pool Code 71629 | | 3 Pool Name Basin Fruitland Coal | | |
| 4 Property Code | | 5 Property Name Carracas Unit 35 A | | | 6 Well Number #8 | |
| 7 OGRID No. 162928 | | 8 Operator Name Energen Resources Corporation | | | 9 Elevation 6910' | |

10 Surface Location

| | | | | | | | | | |
|--------------------|---------------|-----------------|-------------|---------|-----------------------|---------------------------|-----------------------|------------------------|----------------------|
| UL or lot no. H | Section 35 | Township 32N | Range 5W | Lot Idn | Feet from the 1500 | North/South line North | Feet from the 1020 | East/West line East | County Rio Arriba |
|--------------------|---------------|-----------------|-------------|---------|-----------------------|---------------------------|-----------------------|------------------------|----------------------|

11 Bottom Hole Location If Different From Surface

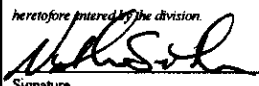
| | | | | | | | | | |
|--------------------|---------------|-----------------|-------------|---------|-----------------------|---------------------------|-----------------------|------------------------|----------------------|
| UL or lot no. G | Section 35 | Township 32N | Range 5W | Lot Idn | Feet from the 2530 | North/South line North | Feet from the 1880 | East/West line East | County Rio Arriba |
|--------------------|---------------|-----------------|-------------|---------|-----------------------|---------------------------|-----------------------|------------------------|----------------------|

| | | | |
|----------------------------------|--------------------|-----------------------|--------------|
| 12 Dedicated Acres 320.96 E/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.

2654'

2654'

| | | | | | | | | | |
|----|-------|----|-------|-------|-----|-------|-------|---|--|
| 16 | 5280' | 35 | 2530' | 1500' | SHL | 1020' | 1880' | 17 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 Printed Name 5/2/2007 Date | |
| | | | | | | | | 18 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 1, 1988 Date of Survey Signature and Seal of Professional Surveyor: Original survey conducted and recorded by Edgar L. Risenhover 5979 Certificate Number | |
| | | | | | | | | | |
| | | | | | | | | | |

Energen Resources

Carson Natl Forest: S35, T32N, R5W

Middle Mesa

Carracas Unit 35 A #8

Preliminary Plan

Plan: Plan #1

Energen Resources - Design

02 May, 2007



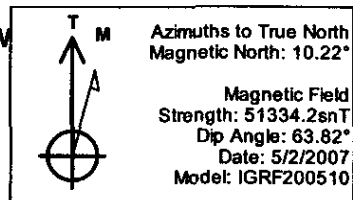
Project: Carson Natl Forest: S35, T32N, R5W

Site: Middle Mesa

Well: Carracas Unit 35 A #8

Wellbore: Preliminary Plan

Plan: Plan #1 (Carracas Unit 35 A #8 /Preliminary Plan)



PROJECT DETAILS: Carson Natl Forest: S35, T32N, R5W

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

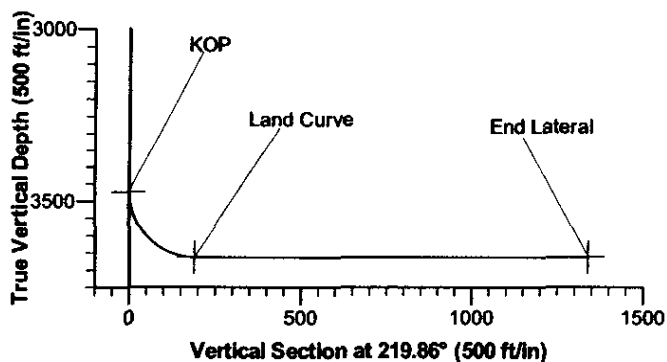
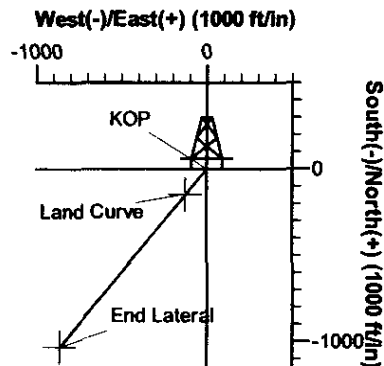
System Datum: Mean Sea Level

SURFACE LOCATION

Easting: 1326015.65
Northing: 2163156.49

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 | 3470.0 | 0.00 | 0.00 | 3470.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | KOP |
| 3 | 3770.0 | 90.00 | 219.86 | 3661.0 | -146.6 | -122.4 | 30.00 | 219.86 | 191.0 | Land Curve |
| 4 | 4920.0 | 90.00 | 219.86 | 3661.0 | -1029.4 | -859.5 | 0.00 | 0.00 | 1341.0 | End Lateral |



Energen
Energen Resources - Design



Company: Energen Resources
Project: Carson Natl Forest: S35, T32N, R5W
Site: Middle Mesa
Well: Carracas Unit 35 A #8
Wellbore: Preliminary Plan
Design: Plan #1

Local Co-ordinate Reference: Well Carracas Unit 35 A #8
TVD Reference: KB @ 6925.0ft (AWS 289)
MD Reference: KB @ 6925.0ft (AWS 289)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Project Carson Natl Forest: S35, T32N, R5W

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Central Zone
System Datum: Mean Sea Level

Site Middle Mesa

Site Position:
From: Lat/Long
Position Uncertainty: 0.0 ft
Northing: 2,163,156.49 ft
Easting: 1,326,015.65 ft
Slot Radius: "
Latitude: 36° 56' 23.304 N
Longitude: 107° 19' 33.019 W
Grid Convergence: -0.65 °

Well Carracas Unit 35 A #8

Well Position +N/-S 0.0 ft
+E/-W 0.0 ft
Position Uncertainty 0.0 ft
Northing: 2,163,156.49 ft
Easting: 1,326,015.65 ft
Wellhead Elevation: 6,910.0 ft
Latitude: 36° 56' 23.304 N
Longitude: 107° 19' 33.019 W
Ground Level: 6,910.0 ft

Wellbore Preliminary Plan

Magnetics
Model Name IGRF200510
Sample Date 5/2/2007
Declination (°) 10.22
Dip Angle (°) 63.82
Field Strength (nT) 51,334

Design Plan #1

Audit Notes:

Version: Phase: PROTOTYPE Tie On Depth: 0.0

Vertical Section:
Depth From (TVD) (ft)
+N/-S (ft)
+E/-W (ft)
Direction (°)
0.0 0.0 0.0 219.86

Survey Tool Program Date 5/2/2007

| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description |
|-----------|---------|----------------------------|-----------|----------------|
| 0.0 | 4,920.0 | Plan #1 (Preliminary Plan) | MWD | MWD - Standard |

Planned Survey

| MD (ft) | TVD (ft) | Inc (°) | Azi (°) | Build (°/100ft) | V. Sec (ft) | Northing (ft) | Easting (ft) |
|------------|----------|---------|---------|-----------------|-------------|---------------|--------------|
| 3,400.0 | 3,400.0 | 0.00 | 0.00 | 0.00 | 0.0 | 2,163,156.49 | 1,326,015.65 |
| 3,470.0 | 3,470.0 | 0.00 | 0.00 | 0.00 | 0.0 | 2,163,156.49 | 1,326,015.65 |
| KOP | | | | | | | |
| 3,480.0 | 3,480.0 | 3.00 | 219.86 | 30.00 | 0.3 | 2,163,156.29 | 1,326,015.48 |
| 3,490.0 | 3,490.0 | 6.00 | 219.86 | 30.00 | 1.0 | 2,163,155.69 | 1,326,014.97 |
| 3,500.0 | 3,499.9 | 9.00 | 219.86 | 30.00 | 2.4 | 2,163,154.70 | 1,326,014.12 |
| 3,510.0 | 3,509.7 | 12.00 | 219.86 | 30.00 | 4.2 | 2,163,153.31 | 1,326,012.94 |
| 3,520.0 | 3,519.4 | 15.00 | 219.86 | 30.00 | 6.5 | 2,163,151.54 | 1,326,011.42 |
| 3,530.0 | 3,529.0 | 18.00 | 219.86 | 30.00 | 9.3 | 2,163,149.38 | 1,326,009.58 |
| 3,540.0 | 3,538.4 | 21.00 | 219.86 | 30.00 | 12.7 | 2,163,146.84 | 1,326,007.41 |
| 3,550.0 | 3,547.7 | 24.00 | 219.86 | 30.00 | 16.5 | 2,163,143.93 | 1,326,004.92 |
| 3,560.0 | 3,556.7 | 27.00 | 219.86 | 30.00 | 20.8 | 2,163,140.66 | 1,326,002.13 |

Energen
Energen Resources - Design



Company: Energen Resources
Project: Carson Natl Forest: S35, T32N, R5W
Site: Middle Mesa
Well: Carracas Unit 35 A #8
Wellbore: Preliminary Plan
Design: Plan #1

Local Co-ordinate Reference: Well Carracas Unit 35 A #8
TVD Reference: KB @ 6925.0ft (AWS 289)
MD Reference: KB @ 6925.0ft (AWS 289)
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) |
|--------------------|-------------|------------|------------|--------------------|----------------|------------------|-----------------|
| 3,570.0 | 3,565.5 | 30.00 | 219.86 | 30.00 | 25.6 | 2,163,137.03 | 1,325,999.03 |
| 3,580.0 | 3,574.0 | 33.00 | 219.86 | 30.00 | 30.8 | 2,163,133.06 | 1,325,995.64 |
| 3,590.0 | 3,582.3 | 36.00 | 219.86 | 30.00 | 36.5 | 2,163,128.75 | 1,325,991.96 |
| 3,600.0 | 3,590.2 | 39.00 | 219.86 | 30.00 | 42.6 | 2,163,124.13 | 1,325,988.00 |
| 3,610.0 | 3,597.8 | 42.00 | 219.86 | 30.00 | 49.1 | 2,163,119.19 | 1,325,983.79 |
| 3,620.0 | 3,605.0 | 45.00 | 219.86 | 30.00 | 55.9 | 2,163,113.96 | 1,325,979.32 |
| 3,630.0 | 3,611.9 | 48.00 | 219.86 | 30.00 | 63.2 | 2,163,108.44 | 1,325,974.61 |
| 3,640.0 | 3,618.4 | 51.00 | 219.86 | 30.00 | 70.8 | 2,163,102.66 | 1,325,969.67 |
| 3,650.0 | 3,624.5 | 54.00 | 219.86 | 30.00 | 78.7 | 2,163,096.63 | 1,325,964.51 |
| 3,660.0 | 3,630.2 | 57.00 | 219.86 | 30.00 | 87.0 | 2,163,090.37 | 1,325,959.16 |
| 3,670.0 | 3,635.4 | 60.00 | 219.86 | 30.00 | 95.5 | 2,163,083.88 | 1,325,953.63 |
| 3,680.0 | 3,640.2 | 63.00 | 219.86 | 30.00 | 104.3 | 2,163,077.20 | 1,325,947.92 |
| 3,690.0 | 3,644.5 | 66.00 | 219.86 | 30.00 | 113.3 | 2,163,070.34 | 1,325,942.06 |
| 3,700.0 | 3,648.3 | 68.99 | 219.86 | 30.00 | 122.5 | 2,163,063.32 | 1,325,936.06 |
| 3,710.0 | 3,651.6 | 71.99 | 219.86 | 30.00 | 132.0 | 2,163,056.15 | 1,325,929.93 |
| 3,720.0 | 3,654.5 | 74.99 | 219.86 | 30.00 | 141.5 | 2,163,048.86 | 1,325,923.71 |
| 3,730.0 | 3,656.8 | 77.99 | 219.86 | 30.00 | 151.3 | 2,163,041.47 | 1,325,917.39 |
| 3,740.0 | 3,658.6 | 80.99 | 219.86 | 30.00 | 161.1 | 2,163,034.00 | 1,325,911.01 |
| 3,750.0 | 3,660.0 | 83.99 | 219.86 | 30.00 | 171.0 | 2,163,026.46 | 1,325,904.57 |
| 3,760.0 | 3,660.7 | 86.99 | 219.86 | 30.00 | 181.0 | 2,163,018.88 | 1,325,898.09 |
| 3,770.0 | 3,661.0 | 90.00 | 219.86 | 30.00 | 191.0 | 2,163,011.26 | 1,325,891.59 |
| Land Curve | | | | | | | |
| 3,800.0 | 3,661.0 | 90.00 | 219.86 | 0.00 | 221.0 | 2,162,988.47 | 1,325,872.11 |
| 3,900.0 | 3,661.0 | 90.00 | 219.86 | 0.00 | 321.0 | 2,162,912.44 | 1,325,807.16 |
| 4,000.0 | 3,661.0 | 90.00 | 219.86 | 0.00 | 421.0 | 2,162,836.40 | 1,325,742.21 |
| 4,100.0 | 3,661.0 | 90.00 | 219.86 | 0.00 | 521.0 | 2,162,760.37 | 1,325,677.25 |
| 4,200.0 | 3,661.0 | 90.00 | 219.86 | 0.00 | 621.0 | 2,162,684.34 | 1,325,612.30 |
| 4,300.0 | 3,661.0 | 90.00 | 219.86 | 0.00 | 721.0 | 2,162,608.30 | 1,325,547.35 |
| 4,400.0 | 3,661.0 | 90.00 | 219.86 | 0.00 | 821.0 | 2,162,532.27 | 1,325,482.39 |
| 4,500.0 | 3,661.0 | 90.00 | 219.86 | 0.00 | 921.0 | 2,162,456.24 | 1,325,417.44 |
| 4,600.0 | 3,661.0 | 90.00 | 219.86 | 0.00 | 1,021.0 | 2,162,380.20 | 1,325,352.49 |
| 4,700.0 | 3,661.0 | 90.00 | 219.86 | 0.00 | 1,121.0 | 2,162,304.17 | 1,325,287.53 |
| 4,800.0 | 3,661.0 | 90.00 | 219.86 | 0.00 | 1,221.0 | 2,162,228.14 | 1,325,222.58 |
| 4,900.0 | 3,661.0 | 90.00 | 219.86 | 0.00 | 1,321.0 | 2,162,152.11 | 1,325,157.62 |
| 4,920.0 | 3,661.0 | 90.00 | 219.86 | 0.00 | 1,341.0 | 2,162,136.88 | 1,325,144.62 |
| End Lateral | | | | | | | |

Energen
Energen Resources - Design



Company: Energen Resources
Project: Carson Natl Forest: S35, T32N, R5W
Site: Middle Mesa
Well: Carracas Unit 35 A #8
Wellbore: Preliminary Plan
Design: Plan #1

Local Co-ordinate Reference: Well Carracas Unit 35 A #8
TVD Reference: KB @ 6925.0ft (AWS 289)
MD Reference: KB @ 6925.0ft (AWS 289)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

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 | 0.00 | 3,470.0 | 0.0 | 0.0 | 2,163,156.49 | 1,326,015.65 | 36° 56' 23.304 N | 107° 19' 33.019 W |
| End Lateral - plan hits target - Point | 0.00 | 0.00 | 3,661.0 | -1,029.4 | -859.5 | 2,162,136.88 | 1,325,144.62 | 36° 56' 13.126 N | 107° 19' 43.605 W |
| Land Curve - plan hits target - Point | 0.00 | 0.00 | 3,661.0 | -146.6 | -122.4 | 2,163,011.26 | 1,325,891.59 | 36° 56' 21.854 N | 107° 19' 34.527 W |

| | | |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|

BLM CONDITIONS OF APPROVAL

WORKOVER AND RECOMPLETION OPERATIONS:

- 1. If casing repair operations are needed, obtain prior approval from this office before commencing repairs.**
- 2. A properly functioning BOP and related equipment must be installed prior to commencing workover and/or recompletion operations.**

SURFACE USE OPERATIONS:

The following Stipulations will apply to this well unless a particular Surface Managing Agency or private surface owner has supplied to BLM and operator a contradictory environmental stipulation. The failure of operator to comply with these requirements may result in assessments or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on location during construction, drilling and reclamation activity.

An agreement between operator and fee landowner will take precedence over BLM surface stipulations unless (in reference to 43 CFR Part 3160) 1) BLM determines that operator's actions will affect adjacent Federal or Indian surface, or 2) operator does not maintain well area and lease premises in a workmanlike manner with due regard for safety, conservation and appearance, or 3) no such agreement exists, or 4) in the event of well abandonment, minimal Federal restoration requirements will be required.

STANDARD STIPULATIONS: All surface areas disturbed during work-over activities and not in use for production activities will be reseeded. This should occur in the first 90 days after completion of work-over activities.

SPECIAL STIPULATIONS:

- 1. Pits will be fenced during work-over operation.**
- 2. All disturbance will be kept on existing pad.**
- 3. All pits will be pulled and closed immediately upon completion of the work-over activities.**
- 4. Pits will be lined with an impervious material at least 12 mils thick.**