

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.

2006 MAR 20 PM 3 55

SUBMIT IN TRIPLICATE - Other instructions on reverse side

RECEIVED

070 FARMINGTON NM

1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other		5. Lease Serial No. NM 58137
2. Name of Operator ENERGEN RESOURCES CORPORATION		6. If Indian, Allottee or Tribe Name
3a. Address 2198 Bloomfield Highway, Farmington, NM 87401	3b. Phone No. (include area code)	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2505' FNL, 895' FEL, Sec. 2, T29N, R4W, N.M.P.M.		8. Well Name and No. Burns Ranch 300
		9. API Well No. 30-039-24784
		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

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

- | | | | |
|---|---|--|---|
| ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Alter Casing | ☐ Fracture Treat | ☐ Reclamation | ☐ Well Integrity |
| ☐ Casing Repair | ☐ New Construction | ☒ Recomplete | ☐ Other |
| ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | |
| ☐ Convert to Injection | ☐ Plug Back | ☐ 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 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 plans to recompleate the Fruitland Coal on the Burns Ranch #300 with a horizontal lateral. A whipstock will be set and a window milled in the existing 5 1/2" casing at 3467' +/- (TVD). The horizontal lateral will be drilled according to the attached directional well plan to a measured depth of 3781', and a vertical depth of 3675'. This will be an open hole completion. 2 3/8" tubing will be landed at 3670' (TVD) in the 5 1/2" casing.

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

HOLD C104 FOR Directional Survey



14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Nathan Smith	Title Drilling Engineer
<i>Nathan Smith</i>	Date 3/20/06

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by <i>Mark Haldest</i>	Title <i>PETE ENG</i>	Date <i>3/24/06</i>
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 <i>BLM- FFO</i>	

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.

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000

DISTRICT II
611 South First, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

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	² Pool Code	³ Pool Name BASIN FRUITLAND COAL
⁴ Property Code	⁵ Property Name BURNS RANCH	⁶ Well Number 300
⁷ OCRID No.	⁸ Operator Name ENERGEN RESOURCES CORPORATION	⁹ Elevation 7081'

¹⁰ Surface Location

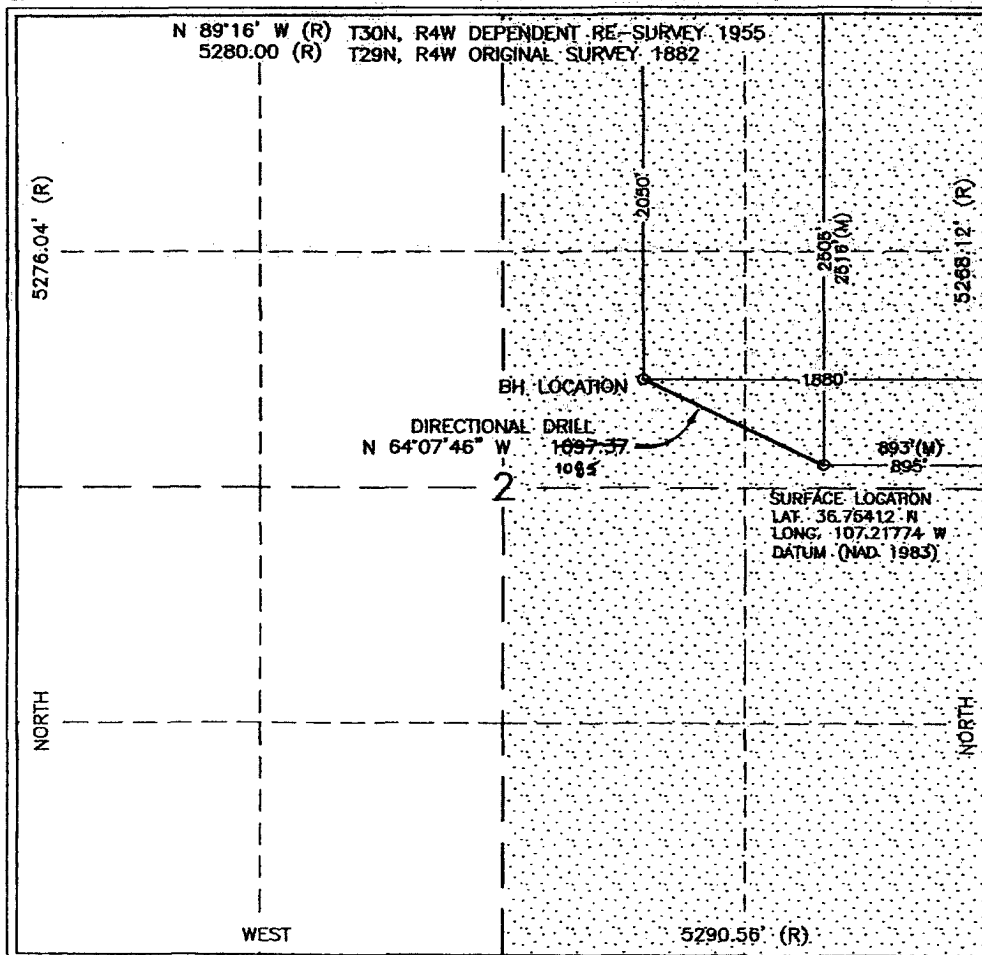
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	2	29N	4W		2505'	NORTH	895'	EAST	RIO ARRIBA

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
G	2	29N	4W		2050'	NORTH	1880'	EAST	RIO ARRIBA
¹² Dedicated Acres 319.36 Acres - (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

16



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Nathan Smith
Signature

Nathan Smith
Printed Name

Drilling Engineer
Title

3/14/06
Date

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.

MARCH 09, 2006

Date of Survey
Signature and Seal of Professional Surveyor

David R. Russell
DAVID R. RUSSELL
Certificate Number 10201



Energen Resources Corporation

Rio Arriba, NM

Sec.2 T29N-R4W

BURNS RANCH #300

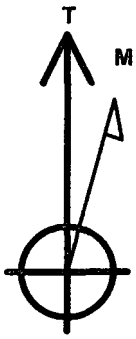
Wellbore #1

Plan: Plan #1

Standard Planning Report

16 March, 2006

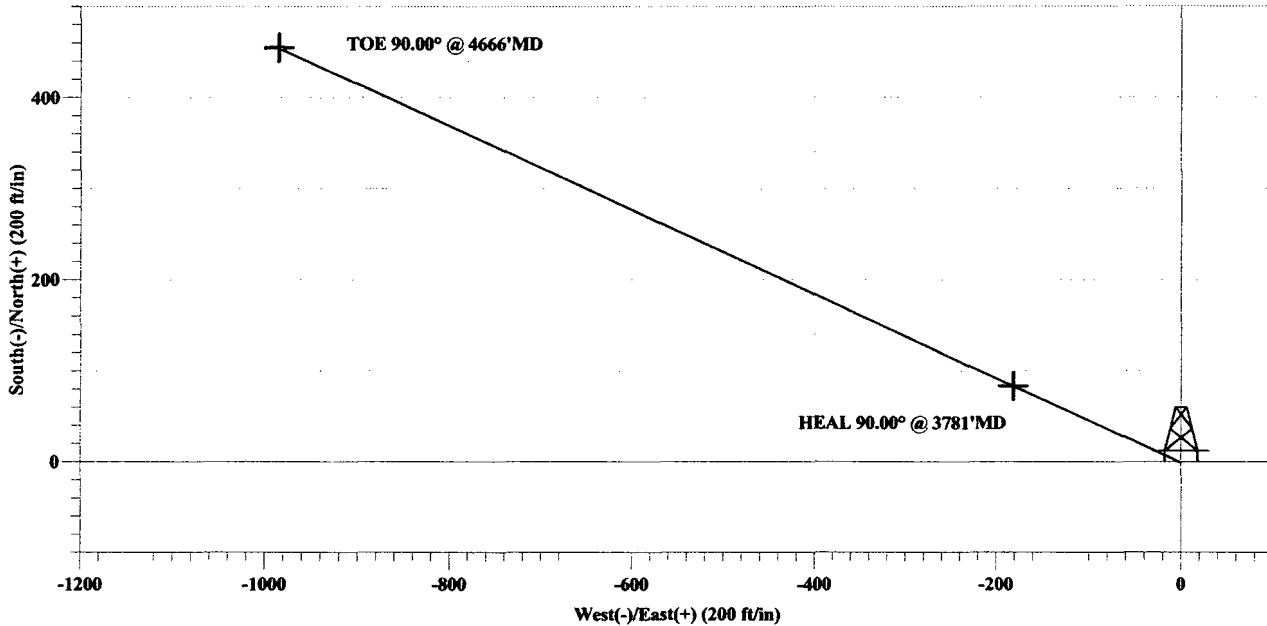
Energen Resources Corp.



Azimuths to True North
Magnetic North: 10.30°

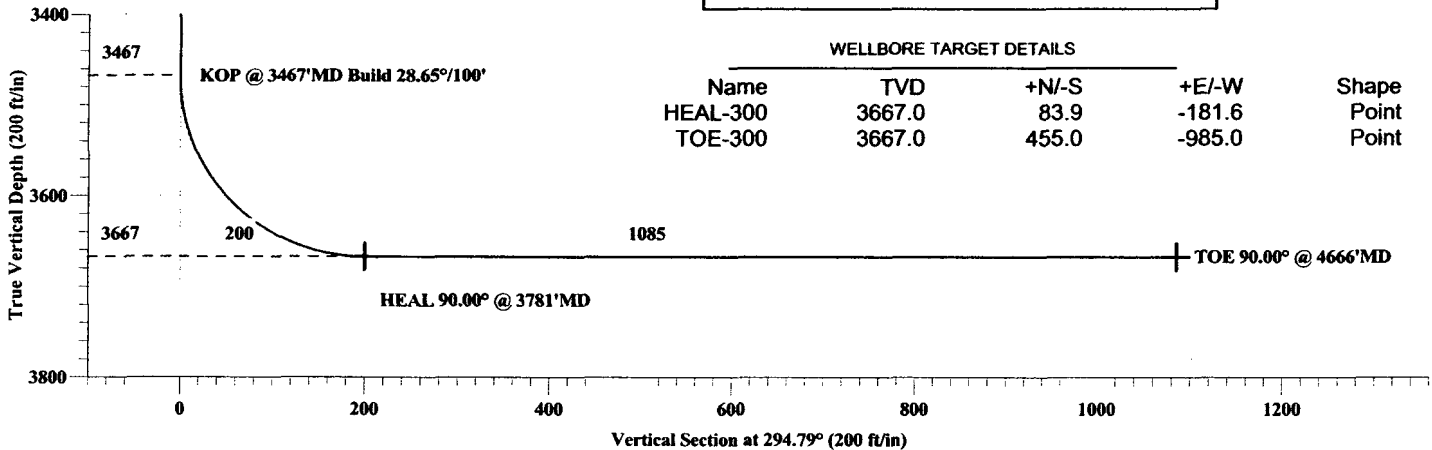
Magnetic Field
Strength: 51405.4nT
Dip Angle: 63.71°
Date: 3/16/2006
Model: IGRF200510

BURNS RANCH #300
Sec.2 T29N-R4W
RIO ARRIBA Co., NM



SURFACE LOCATION: BURNS RANCH #300

2505'FNL 895'FEL



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
HEAL-300	3667.0	83.9	-181.6	Point
TOE-300	3667.0	455.0	-985.0	Point

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	3467.0	0.00	0.00	3467.0	0.0	0.0	0.00	0.00	0.0	
3	3781.2	90.00	294.79	3667.0	83.9	-181.6	28.65	294.79	200.0	HEAL-300
4	4666.3	90.00	294.79	3667.0	455.0	-985.2	0.00	0.00	1085.2	TOE-300

Plan: Plan #1 (BURNS RANCH #300/Wellbore #1)

Created By: Frank C. Scardino Date: 3/16/2006

Database: EDM 2003.14 Single User Db
 Company: Energen Resources Corporation
 Project: Rio Arriba, NM
 Site: Sec.2 T29N-R4W
 Well: BURNS RANCH #300
 Wellbore: Wellbore #1
 Design: Plan #1

Local Co-ordinate Reference: Well BURNS RANCH #300
 TVD Reference: WELL @ 0.0ft (Original Well Elev)
 MD Reference: WELL @ 0.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Project: Rio Arriba, NM
 Map System: US State Plane 1983
 Geo Datum: North American Datum 1983
 Map Zone: New Mexico Central Zone
 System Datum: Mean Sea Level

Site: Sec.2 T29N-R4W
 Site Position: Northing: 2,095,215.28 ft Latitude: 36° 45' 14.832 N
 From: Lat/Long Easting: 1,356,922.27 ft Longitude: 107° 13' 3.864 W
 Position Uncertainty: 0.0 ft Slot Radius: - Grid Convergence: -0.58 °

Well: BURNS RANCH #300
 Well Position: +N/-S 0.0 ft Northing: 2,095,215.28 ft Latitude: 36° 45' 14.832 N
 +E/-W 0.0 ft Easting: 1,356,922.27 ft Longitude: 107° 13' 3.864 W
 Position Uncertainty: 0.0 ft Wellhead Elevation: ft Ground Level: 0.0 ft

Wellbore: Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	3/16/2006	10.30	63.71	51,405

Design: Plan #1

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 0.0 294.79

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,467.0	0.00	0.00	3,467.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,781.2	90.00	294.79	3,667.0	83.9	-181.6	28.65	28.65	0.00	294.79	HEAL-300
4,666.3	90.00	294.79	3,667.0	455.0	-985.2	0.00	0.00	0.00	0.00	TOE-300

Database: EDM 2003.14 Single User Db
 Company: Energen Resources Corporation
 Project: Rio Arriba, NM
 Site: Sec.2 T29N-R4W
 Well: BURNS RANCH #300
 Wellbore: Wellbore #1
 Design: Plan #1

Local Co-ordinate Reference: Well BURNS RANCH #300
 TVD Reference: WELL @ 0.0ft (Original Well Elev)
 MD Reference: WELL @ 0.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,467.0	0.00	0.00	3,467.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP @ 3467'MD Build 28.65°/100'									
3,480.0	3.72	294.79	3,480.0	0.2	-0.4	0.4	28.65	28.65	0.00
3,500.0	9.45	294.79	3,499.9	1.1	-2.5	2.7	28.65	28.65	0.00
3,520.0	15.18	294.79	3,519.4	2.9	-6.3	7.0	28.65	28.65	0.00
3,540.0	20.91	294.79	3,538.4	5.5	-12.0	13.2	28.65	28.65	0.00
3,560.0	26.64	294.79	3,556.7	8.9	-19.3	21.2	28.65	28.65	0.00
3,580.0	32.37	294.79	3,574.1	13.0	-28.2	31.1	28.65	28.65	0.00
3,600.0	38.10	294.79	3,590.4	17.9	-38.7	42.6	28.65	28.65	0.00
3,620.0	43.83	294.79	3,605.5	23.4	-50.6	55.7	28.65	28.65	0.00
3,640.0	49.56	294.79	3,619.2	29.5	-63.8	70.3	28.65	28.65	0.00
3,660.0	55.29	294.79	3,631.4	36.1	-78.2	86.1	28.65	28.65	0.00
3,680.0	61.02	294.79	3,642.0	43.2	-93.6	103.1	28.65	28.65	0.00
3,700.0	66.75	294.79	3,650.8	50.8	-109.9	121.0	28.65	28.65	0.00
3,720.0	72.48	294.79	3,657.7	58.6	-126.9	139.8	28.65	28.65	0.00
3,740.0	78.21	294.79	3,662.8	66.7	-144.5	159.1	28.65	28.65	0.00
3,760.0	83.94	294.79	3,665.9	75.0	-162.4	178.9	28.65	28.65	0.00
3,781.2	90.00	294.79	3,667.0	83.9	-181.6	200.0	28.65	28.65	0.00
HEAL 90.00° @ 3781'MD - HEAL-300									
3,800.0	90.00	294.79	3,667.0	91.8	-198.7	218.8	0.00	0.00	0.00
3,900.0	90.00	294.79	3,667.0	133.7	-289.5	318.8	0.00	0.00	0.00
4,000.0	90.00	294.79	3,667.0	175.6	-380.2	418.8	0.00	0.00	0.00
4,100.0	90.00	294.79	3,667.0	217.5	-471.0	518.8	0.00	0.00	0.00
4,200.0	90.00	294.79	3,667.0	259.5	-561.8	618.8	0.00	0.00	0.00
4,300.0	90.00	294.79	3,667.0	301.4	-652.6	718.8	0.00	0.00	0.00
4,400.0	90.00	294.79	3,667.0	343.3	-743.4	818.8	0.00	0.00	0.00
4,500.0	90.00	294.79	3,667.0	385.3	-834.2	918.8	0.00	0.00	0.00
4,600.0	90.00	294.79	3,667.0	427.2	-925.0	1,018.8	0.00	0.00	0.00
4,666.3	90.00	294.79	3,667.0	455.0	-985.2	1,085.2	0.00	0.00	0.00
TOE 90.00° @ 4666'MD - TOE-300									

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
TOE-300 - hit/miss target - Shape	0.00	0.00	3,667.0	455.0	-985.0	2,095,680.22	1,355,941.92	36° 45' 19.331 N	107° 13' 15.968 W
HEAL-300 - plan hits target - Point	0.00	0.00	3,667.0	83.9	-181.6	2,095,300.97	1,356,741.56	36° 45' 15.661 N	107° 13' 6.095 W

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
3,467.0	3,467.0	0.0	0.0	KOP @ 3467'MD Build 28.65°/100'
3,781.2	3,667.0	83.9	-181.6	HEAL 90.00° @ 3781'MD
4,666.3	3,667.0	455.0	-985.2	TOE 90.00° @ 4666'MD