

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 APR 23 PM 3:23

SUBMIT IN TRIPLICATE - Other instructions on reverse side

RECEIVED

210 FARMINGTON

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit or CA/Agreement, Name and/or No.
2. Name of Operator Energen Resources Corporation		6. If Indian, Allottee or Tribe Name
3a. Address 2198 Bloomfield Hwy, Farmington, NM 87401	3b. Phone No. (include area code) 505-325-6800	9. API Well No. 30-039-29485
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) At surface: 995 fnl, 1755 fwl At bottom 1: 995 fnl, 760 fel At bottom 2: 2200 fnl, 1050 fel		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			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Add second lateral</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 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.)

Energen Resources would like to add an additional lateral to the Carracas 13 A #7:

Upon completion of the first lateral (drilled and lined), a whipstock will be set at 4797' MD, 4072' TVD and a 6 1/4" window milled. A second 6 1/4" lateral will be drilled to a bottom hole location of 2200 fnl and 1050 fel with a TD of 6453' MD and an azimuth of 143.29 degrees. A 4 1/2", 11.6 ppf, J-55 STC pre-drilled liner with 6 spf with 0.50" dia holes will be ran into this lateral and dropped off one to two feet outside the window.

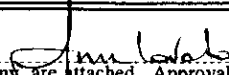
Attached is a revised C-102 and a new directional plan.

RCVD MAY3'07  
OIL CONS. DIV.  
DIST. 3

MOCD C104 FOR directional survey

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Nathan Smith	Title Drilling Engineer
	Date 4/23/07

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by 	Title Petr. Eng.	Date 5/2/07
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.

NMOCB

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

Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

RECEIVED  
BLM

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT NM

'API Number 30-039-29485	'Pool Code 71629	'Pool Name Basin Fruitland Coal
'Property Code 35652	'Property Name Carracas	'Well Number #13 A 7
'OGRID No. 162928	'Operator Name Energen Resources Corporation	'Elevation 7426'

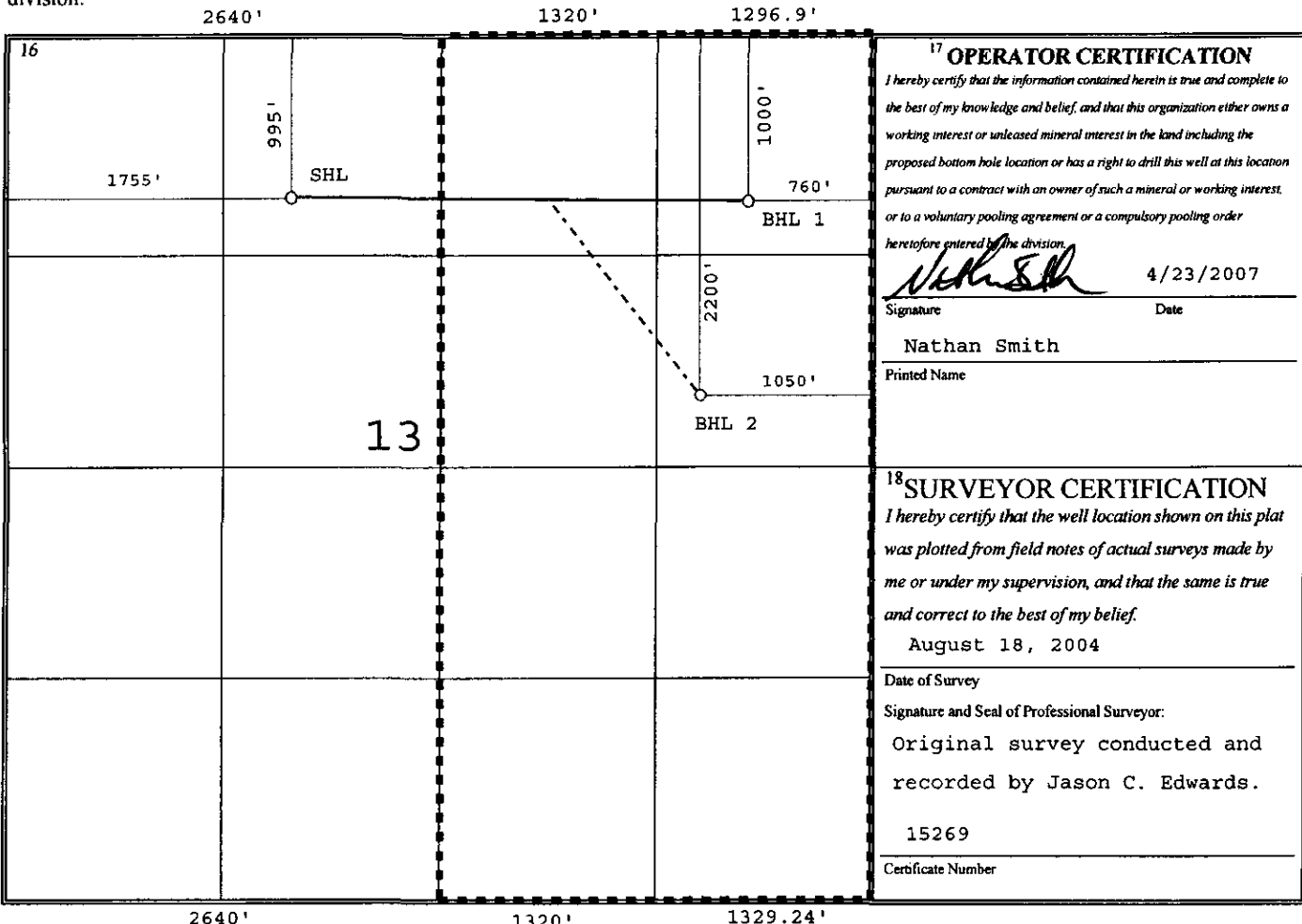
<sup>10</sup> Surface Location

UL or lot no. C	Section 13	Township 32N	Range 5W	Lot Idn	Feet from the 995	North/South line North	Feet from the 1755	East/West line West	County Rio Arriba
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<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no. BHL 1: A BHL 2: H	Section 13	Township 32N	Range 5W	Lot Idn	Feet from the 1000 2200	North/South line North North	Feet from the 760 1050	East/West line East East	County Rio Arriba
'Dedicated Acres E / 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.



# **Energen Resources**

**Carson National Forest; NE S13, T32N, R5W**

**Carracas Mesa**

**Carracas 13 A #7**

**Side Lateral**

**Plan: Plan #1**

## **Energen Resources - Design**

**23 April, 2007**



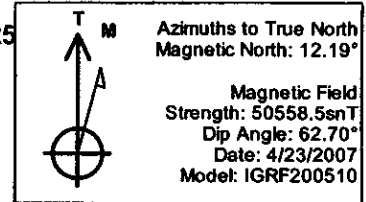
Project: Carson National Forest; NE S13, T32N, R5

Site: Carracas Mesa

Well: Carracas 13 A #7

Wellbore: Side Lateral

Plan: Plan #1 (Carracas 13 A #7/Side Lateral)



PROJECT DETAILS: Carson National Forest; NE S13, T32N, R5W

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

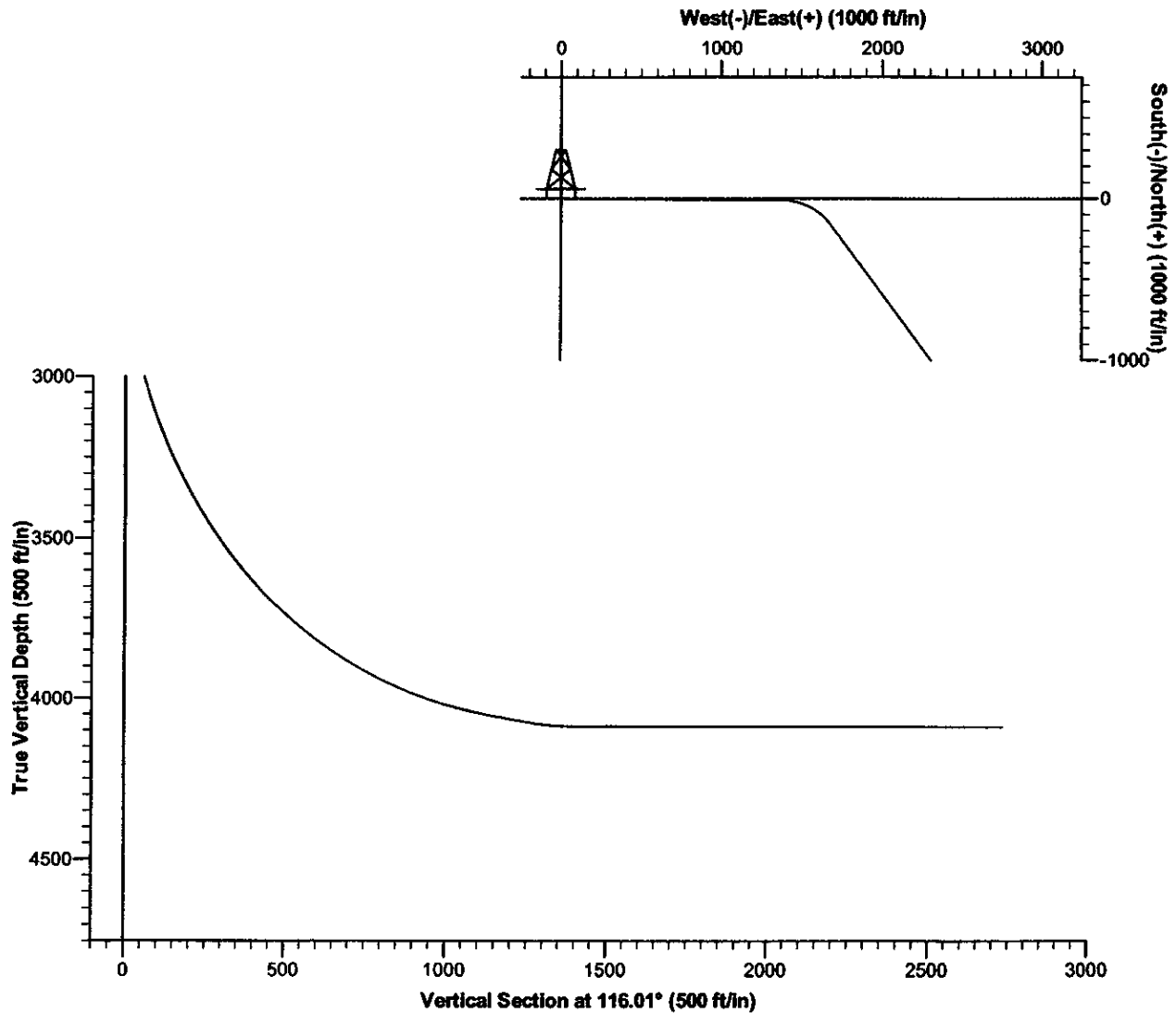
System Datum: Mean Sea Level

SURFACE LOCATION

Easting: 1328907.40  
Northing: 2179478.01

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	4803.0	80.01	90.36	4073.2	-8.7	1375.7	0.00	0.00	1240.1	
2	4978.0	90.00	115.00	4088.7	-46.9	1544.2	15.12	69.27	1408.3	
3	5153.0	90.00	143.29	4088.7	-156.2	1678.5	16.17	90.00	1577.0	
4	6453.0	90.00	143.29	4088.7	-1198.4	2455.6	0.00	0.00	2732.4	



**Energen**  
Energen Resources - Design



**Company:** Energen Resources  
**Project:** Carson National Forest; NE S13, T32N, R5W  
**Site:** Carracas Mesa  
**Well:** Carracas 13 A #7  
**Wellbore:** Side Lateral  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Carracas 13 A #7  
**TVD Reference:** KB @ 7441.0ft (AWS 222)  
**MD Reference:** KB @ 7441.0ft (AWS 222)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Single User Db

**Project:** Carson National Forest; NE S13, 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:** Carracas Mesa

**Site Position:**  
**From:** Lat/Long  
**Position Uncertainty:** 0.0 ft  
**Northing:** 2,179,478.01 ft  
**Easting:** 1,328,907.40 ft  
**Slot Radius:** -  
**Latitude:** 36° 59' 4.992 N  
**Longitude:** 107° 18' 59.652 W  
**Grid Convergence:** -0.64 °

**Well:** Carracas 13 A #7

**Well Position:** +N/-S 0.0 ft  
+E/-W 0.0 ft  
**Position Uncertainty:** 0.0 ft  
**Northing:** 2,179,478.01 ft  
**Easting:** 1,328,907.40 ft  
**Wellhead Elevation:** 7,426.0 ft  
**Latitude:** 36° 59' 4.992 N  
**Longitude:** 107° 18' 59.652 W  
**Ground Level:** 7,426.0 ft

**Wellbore:** Side Lateral

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	4/23/2007	12.19	62.70	50,558

**Design:** Plan #1

**Audit Notes:**

**Version:** Phase: PROTOTYPE Tie On Depth: 4,803.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	116.01

**Survey Tool Program:** Date: 4/23/2007

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	4,803.0	Plan #1 (Preliminary Plan)	MWD	MWD - Standard
4,803.0	6,453.0	Plan #1 (Side Lateral)	MWD	MWD - Standard

**Planned Survey**

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Build (°/100ft)	V. Sec (ft)	Northing (ft)	Easting (ft)
4,800.0	4,072.7	80.01	90.36	0.02	1,237.5	2,179,453.97	1,330,279.94
4,803.0	4,073.2	80.01	90.36	0.00	1,240.1	2,179,453.91	1,330,282.90
4,825.0	4,076.8	81.20	93.51	5.42	1,259.9	2,179,452.94	1,330,304.58
4,850.0	4,080.4	82.58	97.07	5.54	1,283.1	2,179,450.38	1,330,329.19
4,875.0	4,083.3	84.00	100.60	5.65	1,306.8	2,179,446.29	1,330,353.68
4,900.0	4,085.6	85.43	104.11	5.74	1,331.0	2,179,440.69	1,330,377.93
4,925.0	4,087.3	86.89	107.61	5.81	1,355.5	2,179,433.61	1,330,401.84
4,950.0	4,088.3	88.35	111.10	5.86	1,380.3	2,179,425.07	1,330,425.31
4,975.0	4,088.7	89.82	114.58	5.88	1,405.3	2,179,415.11	1,330,448.23
4,978.0	4,088.7	90.00	115.00	5.89	1,408.3	2,179,413.82	1,330,450.94
5,000.0	4,088.7	90.00	118.56	0.00	1,430.3	2,179,403.69	1,330,470.46

**Energen**  
Energen Resources - Design



**Company:** Energen Resources  
**Project:** Carson National Forest; NE S13, T32N, R5W  
**Site:** Carracas Mesa  
**Well:** Carracas 13 A #7  
**Wellbore:** Side Lateral  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Carracas 13 A #7  
**TVD Reference:** KB @ 7441.0ft (AWS 222)  
**MD Reference:** KB @ 7441.0ft (AWS 222)  
**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)
5,025.0	4,088.7	90.00	122.60	0.00	1,455.2	2,179,390.74	1,330,491.84
5,050.0	4,088.7	90.00	126.64	0.00	1,479.9	2,179,376.31	1,330,512.25
5,075.0	4,088.7	90.00	130.68	0.00	1,504.3	2,179,360.47	1,330,531.59
5,100.0	4,088.7	90.00	134.72	0.00	1,528.2	2,179,343.32	1,330,549.77
5,125.0	4,088.7	90.00	138.76	0.00	1,551.6	2,179,324.93	1,330,566.69
5,150.0	4,088.7	90.00	142.81	0.00	1,574.3	2,179,305.38	1,330,582.28
5,153.0	4,088.7	90.00	143.29	0.00	1,577.0	2,179,302.97	1,330,584.05
5,200.0	4,088.7	90.00	143.29	0.00	1,618.8	2,179,264.98	1,330,611.72
5,300.0	4,088.7	90.00	143.29	0.00	1,707.6	2,179,184.14	1,330,670.60
5,400.0	4,088.7	90.00	143.29	0.00	1,796.5	2,179,103.31	1,330,729.47
5,500.0	4,088.7	90.00	143.29	0.00	1,885.4	2,179,022.48	1,330,788.35
5,600.0	4,088.7	90.00	143.29	0.00	1,974.3	2,178,941.65	1,330,847.22
5,700.0	4,088.7	90.00	143.29	0.00	2,063.2	2,178,860.82	1,330,906.10
5,800.0	4,088.7	90.00	143.29	0.00	2,152.0	2,178,779.99	1,330,964.97
5,900.0	4,088.7	90.00	143.29	0.00	2,240.9	2,178,699.15	1,331,023.85
6,000.0	4,088.7	90.00	143.29	0.00	2,329.8	2,178,618.32	1,331,082.72
6,100.0	4,088.7	90.00	143.29	0.00	2,418.7	2,178,537.49	1,331,141.60
6,200.0	4,088.7	90.00	143.29	0.00	2,507.6	2,178,456.66	1,331,200.47
6,300.0	4,088.7	90.00	143.29	0.00	2,596.4	2,178,375.83	1,331,259.35
6,400.0	4,088.7	90.00	143.29	0.00	2,685.3	2,178,295.00	1,331,318.22
6,453.0	4,088.7	90.00	143.29	0.00	2,732.4	2,178,252.16	1,331,349.43

Checked By: _____	Approved By: <u><i>[Signature]</i></u>	Date: <u>4/23/07</u>
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