

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0136  
Expires: November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No.	
1b. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name Jicarilla Apache	
2. Name of Operator Energen Resources Corporation		7. Unit or CA Agreement Name and No. 30-039-29297	
3a. Address 2198 Bloomfield Highway Farmington, New Mexico 87401		8. Lease Name and Well No. Jicarilla 98 2C	
3b. Phone No. (include area code) (505)325-6800		9. API Well No.	
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 1800' FNL, 2120' FEL At proposed prod. zone		10. Field and Pool, or Exploratory Blanco Mesaverde	
14. Distance in miles and direction from nearest town or post office* 12 miles northwest of Lindrith, New Mexico		11. Sec., T., R., M., or Blk. and Survey or Area G Sec. 19, T26N, R03W - NMPM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 1800'		12. County or Parish Rio Arriba	
16. No. of Acres in lease 2508.2		13. State NM	
17. Spacing Unit dedicated to this well 320 E/2			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1300'		20. BLM/BIA Bond No. on file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 7006'		22. Approximate date work will start* 10/04	
		23. Estimated duration 10 days	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

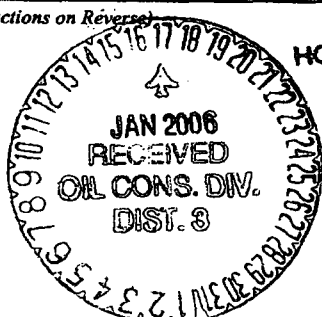
- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan  | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) Doug Thomas	Date 12/19/03
Title Drilling & Completion Foreman		
Approved by (Signature) 	Name (Printed/Typed) AFM	Date 1/18/06
Title AFM	Office FFO	

Application approval 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.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

\*(Instructions on Reverse)



HOLD C194 FOR N-5L

AFMSS
Adj'd Amy
Engr
Geol
Surf
Appvl

RECEIVED  
BLM  
03 DEC 24 AM 9:52  
010 ALBUQUERQUE, N.M.

NMOC

District I  
PO Box 1980, Hobbs, NM 88241-1980

District II  
PO Drawer DD, Artesia, NM 88211-0719

District III  
1000 Rio Brazos Rd., Aztec, NM 87410

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102

Revised February 21, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-29297		*Pool Code 72319	*Pool Name BLANCO MESAVERDE
*Property Code 21940	*Property Name JICARILLA 98		*Well Number 2C
*GRID No. 162928	*Operator Name ENERGEN RESOURCES CORPORATION		*Elevation 7006'

<sup>10</sup> Surface Location

U. or lot no. G	Section 19	Township 26N	Range 3W	Lot Idn	Feet from the 1800	North/South line NORTH	Feet from the 2120	East/West line EAST	County RIO ARriba
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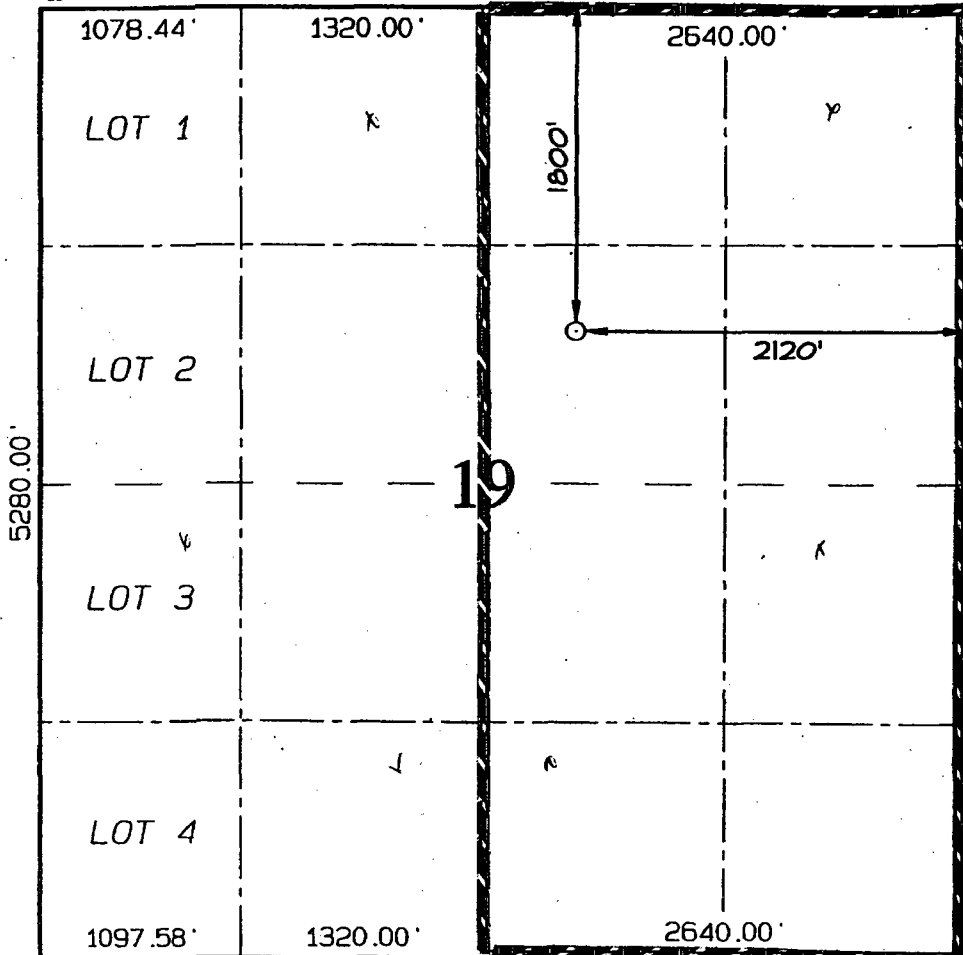
<sup>11</sup> Bottom Hole Location If Different From Surface

U. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
---------------	---------	----------	-------	---------	---------------	------------------	---------------	----------------	--------

<sup>12</sup> Dedicated Acres 320.0 Acres - (E/2)	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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



<sup>17</sup> OPERATOR CERTIFICATION

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

*Don Graham*  
Signature

Don Graham

Printed Name

Production Superintendent

Title

12-16-03

Date

<sup>18</sup> 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.

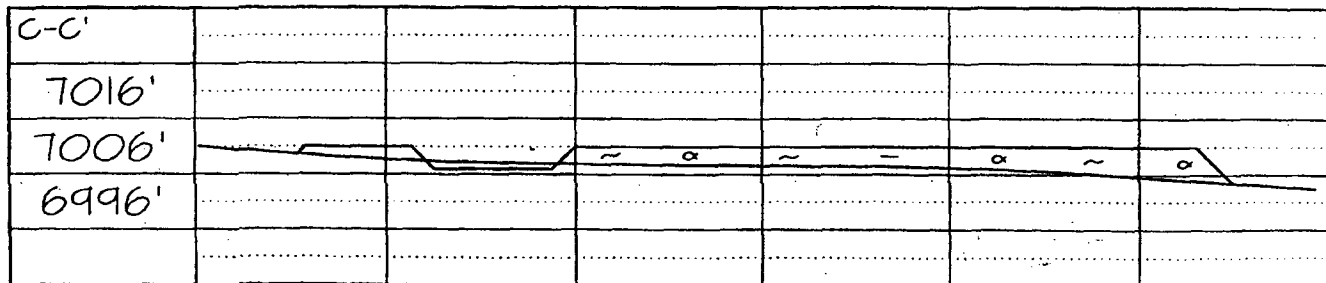
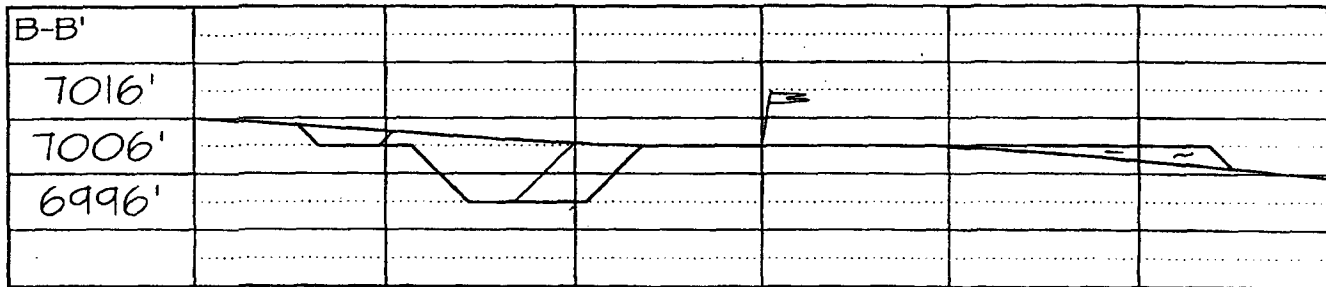
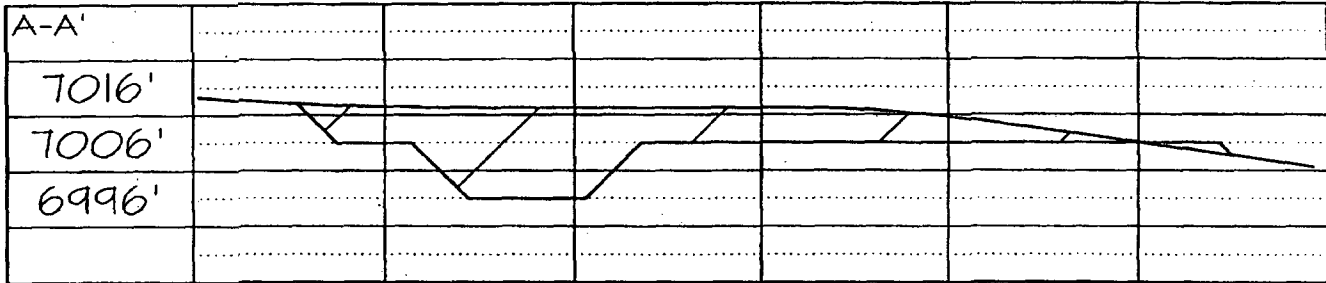
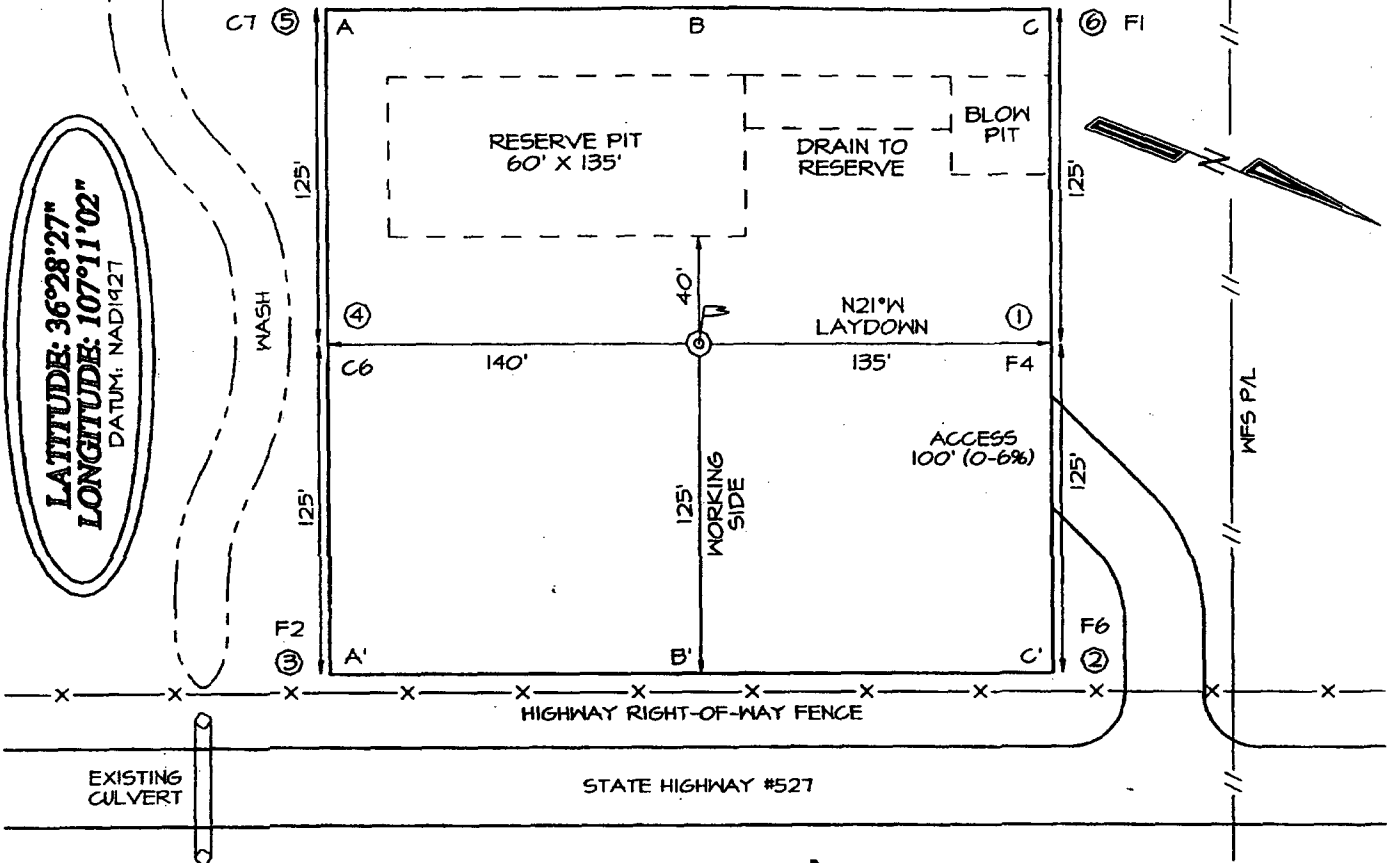
Date of Survey: AUGUST 27, 2003

Signature and Seal of Professional Surveyor



*Jason C. Edwards*  
Certificate Number 15269

**ENERGEN RESOURCES CORPORATION JICARILLA 98 #2C**  
**1800' FNL & 2120' FFL, SECTION 19, T26N, R3W, NMPM**  
**RIO ARriba COUNTY, NEW MEXICO ELEVATION: 7006'**



## OPERATIONS PLAN

WELL NAME: Jicarilla 98 #2C

LOCATION: 1800' FNL, 2120' FEL, Section 19, T26N, R3W, Rio Arriba, New Mexico

FIELD: Blanco Mesaverde

ELEVATION: 7006'

### FORMATION TOPS:

Surface	San Jose ✓	Huerfanito Benonite	4127
Nacimiento ✓	2222	Cliff House	5337
Ojo Alamo ✓	3322	Menefee	5447
Kirtland ✓	3387	Point Lookout	5822
Fruitland	3492	Mancos Shale	6087
Pictured Cliffs	3632		
Lewis	3827		
		<b>Total Depth</b>	<b>6272</b>

### LOGGING PROGRAM:

Open Hole Logs:

Surface to intermediate: NONE

Inter TD to total depth: None

Mud Logs: None

Coring: None

Natural Gauges: Every 500' from intermediate TD to total depth

MUD PROGRAM: Fresh water low solids mud from surface to intermediate TD (9.0 – 9.2 PPG).

Air/mist from intermediate casing point to total depth.

### CASING PROGRAM:

<u>HOLE SIZE</u>	<u>DEPTH</u>	<u>CSG SIZE</u>	<u>WT.</u>	<u>GRADE</u>
12-1/4"	200'	9-5/8"	32.3#	H-40 ST&C
8-3/4"	4027'	7"	20#	J-55 ST&C
6-1/4"	3877' - 6272'	4-1/2"	10.5#	J-55 ST&C

### TUBING PROGRAM:

6200'	2 3/8	4.7#	J-55
-------	-------	------	------

WELLHEAD: 11" 3000 x 9 5/8" casing head. 11" 3000 x 7 1/16" 3000 xmas tree.

### BOP SPECIFICATIONS:

An 11" 2000 psi minimum double gate BOP stack (Figure 1) will be used following nipple up of casing head. During air drilling operations, a Shaffer Type 50 or equivalent rotating head will be installed on top of the stack. A 2" nominal, 2000 psi minimum choke manifold will be used. An upper Kelly Cock valve with handle available and drill string valve to fit each drill string will be available on the rig floor during drilling operations.

**CEMENTING:**

9 5/8 surface casing - Cement with 110 sxs Class B Cement with 1/4" Flocele/sx and 2% calcium chloride (130 cu. ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing to 600# for 30 minutes.

Texas Pattern Guide Shoe on bottom with centralizers on the first three joints.

7" intermediate casing - cement with 530 sxs 65/35 Class B Poz with 6% gel, 2% calcium chloride, 10% gilsonite, and 1/4# flocele/sk. Tail with 100 sxs Class B w/2% calcium chloride, 10% gilsonite and 1/4# flocele/sk. (1150 cu. Ft. of slurry, 90% excess to circulate to surface). WOC 12 hrs. If cement does not circulate, run temperature survey in 8 hrs. to determine TOC. Test casing to 1200 psi for 30 minutes.

Cement nose guide shoe on bottom with a self-fill insert float valve on top of shoe joint. 8 bow spring centralizers spaced every 2nd joint off bottom. Two turbolating centralizers at the base of the Ojo Alamo.

**4 1/2 Production Liner**

Cement with 370 sxs 50/50 poz with 2% gel, 5 PPS gilsonite, .4% halad - 9 and 1/4# flocele/sk (466 cu. Ft., 90% excess to intermediate casing). WOC 18 hrs prior to completion.

Cement nose guide shoe on bottom with float collar on top of shoe joint. Liner hanger will have a neopreme packoff on top.

**OTHER INFORMATION:**

- 1) The Blanco Mesaverde and Gallup Dakota will be completed and downhole commingled.
- 2) No abnormal temperatures or pressures are anticipated.
- 3) Anticipated pore pressure for the Mesa Verde is 800, Pictured Cliffs is 500 and the Fruitland 400 psi.
- 4) If lost circulation is encountered, sufficient LCM will be added to the mud system to maintain well control.
- 5) This gas is dedicated.

UNITED STATES  
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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 Highway, Farmington, NM 87401

## 3b. Phone No. (include area code)

(505) 325-6800

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

Sec. 19, T26N, R03W 1800' ENL, 2120' FEL  
SW/NE

## 5. Lease Serial No.

Jicarilla Contract 98

## 6. If Indian, Allottee or Tribe Name

Jicarilla Apache

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

## 8. Well Name and No.

Jicarilla 98 # 2C

## 9. API Well No.

30-039-29297

## 10. Field and Pool, or Exploratory Area

Blanco Mesaverde

## 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

- |   |   |  |   |
|---|---|--|---|
| <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off               |
| <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity               |
| <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other <u>spud</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.)

02/18/06 Spud @ 6:30 pm on 02/18/06. Drill 12-1/4" hole to 257'. Ran 5 jts. 9.625" 32.3# H-40 ST&C casing, set @ 249'. RU Halliburton. Cement with 125 sks Class B, 2% CaCl<sub>2</sub>, 1/4#/sk floccul (142 cu.ft.). Plug down @ 8:15 am on 02/19/06. Circulate 4 bbls cement to surface. WOC. RU Halliburton. NU BOP. Test casing & BOP to 600 psi - ok.

RECEIVED  
FEB 23 AM 11 22  
70 FARMINGTON NM

## 14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Vicki Donaghey

Title

Regulatory Analyst

Date

02/21/06

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

RECEIVED FOR RECORD

FEB 28 2006

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☐ Oil Well ☒ Gas Well ☐ Other

## 2. Name of Operator

Energen Resources Corporation

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## 3b. Phone No. (include area code)

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Sec. 19, T26N, R03W 1800' ENL, 2120' FEL  
SW/NE

## 5. Lease Serial No.

Jicarilla Contract 98

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Jicarilla Apache

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

## 8. Well Name and No.

Jicarilla 98 # 2C

## 9. API Well No.

30-039-29297

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Blanco Mesaverde

## 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

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☒ Subsequent Report  
☐ Final Abandonment Notice

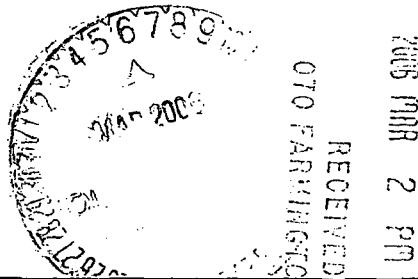
## TYPE OF ACTION

- |   |   |  |   |
|---|---|--|---|
| <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off                     |
| <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity                     |
| <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other <u>set casing</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 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.)

02/25/06 Run 90 jts. 7" 23# J-55 LT&C casing, set @ 4005'. RU Halliburton. Cement 1st stage with 50 sks 65/35 Class B poz, 6% gel, 10#/sk gilsonite, 1/2#/sk flocele, 2% CaCl2 tailed by 50 sks of Class B, 5#/sk gilsonite, 1/4#/sk flocele (160 cu.ft.). Plug down @ 12:00 pm on 02/26/06. Circulate between circulation. Cement 2nd stage with 500 sks 65/35 Class B poz, 6% gel, 10#/sk gilsonite, 1/2#/sk flocele, 2% CaCl2 tailed by 50 sks Class B, 5#/sk gilsonite, 1/4#/sk flocele (1042 cu.ft.). Plug down @ 6:15 pm on 02/26/06. Did not circulate cement to surface. Will run temperature survey to determine TOC. RD Halliburton. NO BOP.

Temperature survey: TOC @ 300'.

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

Vicki Donaghey

## Title

Regulatory Analyst

## Date

02/28/06

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

## Approved by

## Title

Date MAR 03 2006

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

FARMINGTON FIELD OFFICE  
BY JS

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NROCD

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**

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**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 Highway, Farmington, NM 87401**

3b. Phone No. (include area code)

**(505) 325-6800**

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

**Sec.19, T26N, R03W 1800' ENL, 2120' FEL  
SW/NE**

5. Lease Serial No.

**Jicarilla Contract 98**

6. If Indian, Allottee or Tribe Name

**Jicarilla Apache**

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8. Well Name and No.

**Jicarilla 98 # 2C**

9. API Well No.

**30-039-29297**

10. Field and Pool, or Exploratory Area

**Blanco Mesaverde**

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

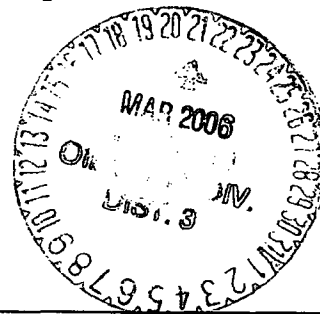
**TYPE OF ACTION**

- |   |   |  |   |
|---|---|--|---|
| <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off                     |
| <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity                     |
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Temperature survey: TOC @ 300'.



14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

**Vicki Donaghey**

Title

**Regulatory Analyst**

Date

**02/28/06**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

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|---|---|--|---|
| <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off                     |
| <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity                     |
| <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other <u>set casing</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 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 recompletion 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.)

03/05/06 TD: 6372'. PBID: 6232'. Run 54 jts. 4.5" 11.6# J-55 LTC casing, set @ 6279'. TOL: 3829'.  
RU Halliburton. Cement with 305 sks 50/50 Class B poz, 2% gel, 5#/sk gilsonite, 1/4#/sk floccle, 0.5%  
Halad-9, 0.1% CFR 3 (396 cu.ft.). Plug down @ 6:15 pm on 03/05/06. Did not circulate cement. Will run  
CEI during completion. Rig down.



RECEIVED  
070 FARMINGTON NM  
2006 MAR 8 PM 10 00

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Vicki Donaghey

Title

Regulatory Analyst

Date

03/06/06

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

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.

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.

ACCEPTED FOR RECORD  
MAR 10 2006  
FARMINGTON FIELD OFFICE  
BY [Signature]

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 Highway, Farmington, NM 87401

3b. Phone No. (include area code)  
(505) 325-6800

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec. 19, T26N, R03W 1800' ENL, 2120' EEL  
SW/NE

5. Lease Serial No.

Jicarilla Contract 98

6. If Indian, Allottee or Tribe Name

Jicarilla Apache

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

8. Well Name and No.

Jicarilla 98 # 2C

9. API Well No.

30-039-29297

10. Field and Pool, or Exploratory Area

Blanco Mesaverde

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

- |   |   |  |   |
|---|---|--|---|
| <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off                     |
| <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity                     |
| <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other <u>set casing</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.)

03/05/06 TD: 6372'. PBID: 6232'. Run 54 jts. 4.5" 11.6# J-55 LT&C casing, set @ 6279'. TOL: 3829'.  
RJ Halliburton. Cement with 305 sks 50/50 Class B poz, 2% gel, 5#/sk gilsonite, 1/4#/sk floccle, 0.5%  
Halad-9, 0.1% CFR 3 (396 cu.ft.). Plug down @ 6:15 pm on 03/05/06. Did not circulate cement. Will run  
CEL during completion. Rig down. Will test casing during completion.



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

Vicki Donaghey

Title

Regulatory Analyst

Date

03/06/06

(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.

# DEVIATION REPORT

<b>Name of Company</b> ENERGEN RESOURCES CORPORATION		<b>Address</b> 2198 BLOOMFIELD HWY, FARMINGTON, NM 87401		
<b>Lease Name &amp; Number</b> JICARILLA 98 #2C	<b>Unit Letter</b> G	<b>Section</b> 19	<b>Township</b> 26N	<b>Range</b> 03W
<b>Pool and Formation</b> Blanco Mesaverde (72319)		<b>API Number</b> 30-039-29297		<b>County</b> Rio Arriba

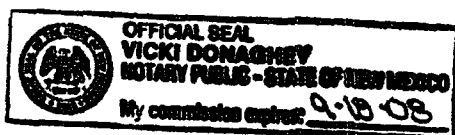
<u>Depth (Ft.)</u>	<u>Deviation (Degrees)</u>
257	.75
731	.75
1227	.25
1717	.50
2207	1.00
2733	1.00
3225	1.00
3722	1.00
3989	1.00
4412	.75
4913	1.00
5416	.75
5910	1.00
6319	1.25

I, the undersigned, certify that I, acting in my capacity as Petroleum Engineer for Energen Resources Corporation, am authorized by said Company to make this report; and that this report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

*Nath Sill*

Subscribed and sworn to before me this 11<sup>th</sup> day of April, 2006.

*Vicki Donaghey*  
Notary Public in and for San Juan County, New Mexico.  
My commission expires: September 18<sup>th</sup>, 2004.

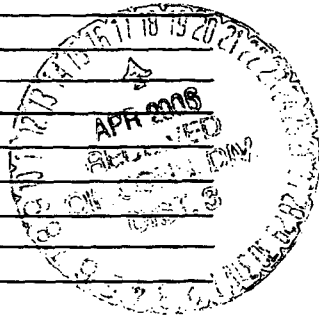


UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires March 31, 2007

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		5. Lease Serial No. <b>Jicarilla Contract 98</b>							
b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., Other		6. If Indian, Allottee or Tribe Name <b>Jicarilla Apache</b>							
2. Name of Operator <b>Energex Resources Corporation</b>		7. Unit or CA Agreement Name and No.							
3. Address <b>2198 Bloomfield Highway, Farmington, NM 87401</b>		8. Lease Name and Well No. <b>Jicarilla 98 # 2C</b>							
3a. Phone No. (include area code) <b>505-325-6800</b>		9. API Well No. <b>30-039-29297</b>							
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface <b>1800' FNL, 2120' FEL</b>  At top prod. interval reported below  At total depth		10. Field and Pool, or Exploratory <b>Blanco Mesaverde</b>							
14. Date Spudded <b>02/18/06</b>		11. Sec., T., R., M., or Block and Survey or Area <b>G - Sec. 19, T26N, R03W - NMM</b>							
15. Date T.D. Reached <b>03/05/06</b>		12. County or Parish <b>Rio Arriba</b>							
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. <b>04/07/06</b>		13. State <b>NM</b>							
17. Elevations (DF, RKB, RT, GL)* <b>7386' GR</b>									
18. Total Depth: MD TVD <b>6372'</b>		19. Plug Back T.D.: MD TVD <b>6232'</b>							
20. Depth Bridge Plug Set: MD TVD									
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) <b>CEL/GR-Array Induct/GR Temp/GR-Triple Lithology Density</b>		22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit copy)							
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.25"	9.625"	32.3#		249'		125 sks			142 cu.ft. - circ.
8.75"	7.0"	20#		4005'		650 sks		TOC 300'	1202 cu.ft. - TS
6.25"	4.50"	10.5#	3829'	6279'		305 sks		TOC 3829'	396 cu.ft. - CHL
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2.375"	5779'								
25. Producing Intervals					26. Perforation Record				
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status			
A) Mesaverde	5625'	5948'		0.34	33	1 sp2f			
B)									
C)									
D)									
27. Acid, Fracture, Treatment, Cement Squeeze, Etc.									
Depth Interval	Amount and Type of Material								
5625' - 5948'	167,477 gals 70Q foam & 180,300# 20/40 sand								
before frac, test casing to 3500 psi - ok									
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
	04/07/06	3							
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
	0	760			649				
28a. Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

(See instructions and spaces for additional data on page 2)



APR 11 2006

FARMINGTON FIELD OFFICE

NMOCG

## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

## 28c. Production-Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				Nacimiento	
				Ojo Alamo	3322
				Kirtland	3372
				Fruitland	3440
				Pictured Cliffs	3680
				Lewis	3844
				Huerfanito Benito	
				Cliff House	5336
				Manefee	5450
				Point Lookout	5836
				Mancos	
				Gallup	
				Greenhorn	
				Graneros	
				Dakota	

32. Additional remarks (include plugging procedure):

## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd)
 ☐ Geologic Report
 ☐ DST Report
 ☐ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Vicki DonagheyTitle Regulatory AnalystSignature Vicki DonagheyDate 04/11/06

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.