

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires July 31, 2010

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.

RECEIVED  
SEP 30 2014  
Bureau of Land Management

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. <u>Jicarilla 123 C</u>
2. Name of Operator <u>Energen Resources Corporation</u>		6. If Indian, Allottee or Tribe Name <u>Jicarilla Apache</u>
3a. Address <u>2010 Afton Place, Farmington, NM 87401</u>	3b. Phone No. (include area code) <u>(505) 325-6800</u>	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <u>1550' FSL 1520' FWL, Sec. 06, T. 25N, R. 04W</u>		8. Well Name and No. <u>Jicarilla 123 C 32</u>
		9. API Well No. <u>30-039-22971</u>
		10. Field and Pool, or Exploratory Area <u>West Lindrieth Dakota/Gallup</u>
		11. County or Parish, State <u>Rio Arriba NM</u>

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>Abandon</u>
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>Dakota</u>
	<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 recompletable 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 recompletable 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.)

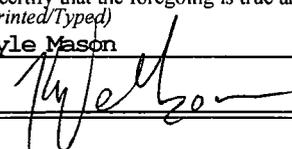
Energen Resources plans to plug and abandon the Jicarilla 123 C #32 per the attached procedure.

Energen will notify NMOCD 24 hrs prior to commencing operation. This will be a closed loop operation.

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

Notify NMOCD 24 hrs prior to beginning operations

SEE ATTACHED FOR CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) <u>Kyle Mason</u>	Title <u>District Engineer</u>
Signature 	Date <u>9/29/2014</u>

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by <u>Troy Salvors</u>	Title <u>Petroleum Eng.</u>	Date <u>10/28/2014</u>
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 <u>FFO</u>	

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

## PLUG AND ABANDONMENT PROCEDURE

September 9, 2014

### Jicarilla 123 C #32#E

West Lindrith Gallup / Dakota  
1550' FSL and 1520' FWL, Section 6, T25N, R4W  
Rio Arriba County, New Mexico / API 30-039-22971  
Lat: N \_\_\_\_\_ / Lat: W \_\_\_\_\_

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield.

1. This well requires the use of an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.
2. Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.
3. Rods: Yes\_\_\_\_, No\_\_\_\_, Unknown\_\_\_\_.  
Tubing: Yes X, No\_\_\_\_, Unknown\_\_\_\_, Size 2-3/8", Length 7689'.  
Packer: Yes\_\_\_\_, No\_\_\_\_, Unknown\_\_\_\_, Type \_\_\_\_\_.  
If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.
4. **NOTE: BLM requires a CBL log to be run on all wells where the cement did not circulate to surface or where CBL log was not previously run and/or cement circulated to surface. This procedure is prepared with the understanding that it may be modified based on the TOC from the CBL.**
5. **Plug #1 (Dakota perforations and top, 7515' – 7415')**: Round trip gauge ring or casing scraper to 7515', or as deep as possible. RIH and set 4.5" cement retainer at 7515'. Pressure test tubing to 1000 PSI. Load casing with water and circulate well clean. Pressure test casing to 1000#. **If the casings do not test, then spot or tag subsequent plugs as appropriate.** Circulate well clean. Mix 12 sxs Class B cement inside casing from BP to isolate the Dakota interval. PUH.  

See COA
6. **Plug #2 (Gallup top, 6625' – 6525')**: Mix and pump 12 sxs Class B cement and spot a balanced plug inside casing to cover the Gallup top. PUH.  

See COA
7. **Plug #3 (Mancos top, 5844'- 5744')**: Mix and pump 12 sxs Class B cement and spot a balanced plug inside casing to cover the Mancos top. PUH.

8. **Plug #4 (Mesaverde tops, 5058' -4958')**: Perforate squeeze holes at 5058'. Attempt to establish rate if the casing pressure tested. TIH and set CR at 5008'. Mix and pump 51 sxs Class B cement, squeeze 39 sxs outside 4.5" casing and leave 12 sxs inside casing to cover the Mesaverde top. TOH with tubing.
9. **Plug #5 (Chacra tops, 4266' – 4166')**: Perforate squeeze holes at 4266'. Attempt to establish rate if the casing pressure tested. TIH and set CR at 4216'. Mix and pump 51 sxs Class B cement, squeeze 39 sxs outside 4.5" casing and leave 12 sxs inside casing to cover the Chacra top. PUH.  

*See COA*
10. **Plug #6 (Pictured Cliffs, Fruitland, Kirtland and Ojo Alamo tops, 3401' – 2854')**: Mix and pump 46 sxs Class B cement and spot a balanced plug inside casing to cover the Pictured Cliffs, Fruitland, Kirtland and Ojo Alamo tops. PUH.  

*See COA*
11. **Plug #7 (Nacimiento top, 1899' – 1799')**: Mix and pump 12 sxs Class B cement and spot a balanced plug inside casing to cover the Nacimiento top. TOH.
12. **Plug #8 (9.625" surface casing shoe, 268' - Surface)**: Perforate 3 squeeze holes at 268'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 110 sxs Class B cement and pump down the 4.5" casing to circulate good cement out bradenhead. Shut in well and WOC.
13. ND cementing valves and cut off wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and cut off anchors. Restore location per BLM stipulations

# Jicarilla 123 C #32E

## Current

West Lindrith Gallup / Dakota

1550' FSL, 1520' FWL, Section 6, T-25-N, R-4-W

Rio Arriba County, NM, API #30-039-22971

Today's Date: 9/9/14

Spud: 5/27/82

Completed: 7/7/82

Elevation: 6954' GI  
6965' KB

Nacimiento @ 1849' \*est

Ojo Alamo @ 2904'

Kirtland @ 3016'

Fruitland @ 3202'

Pictured Cliffs @ 3351'

Chacra @ 4216' \*est

Mesaverde @ 5008'

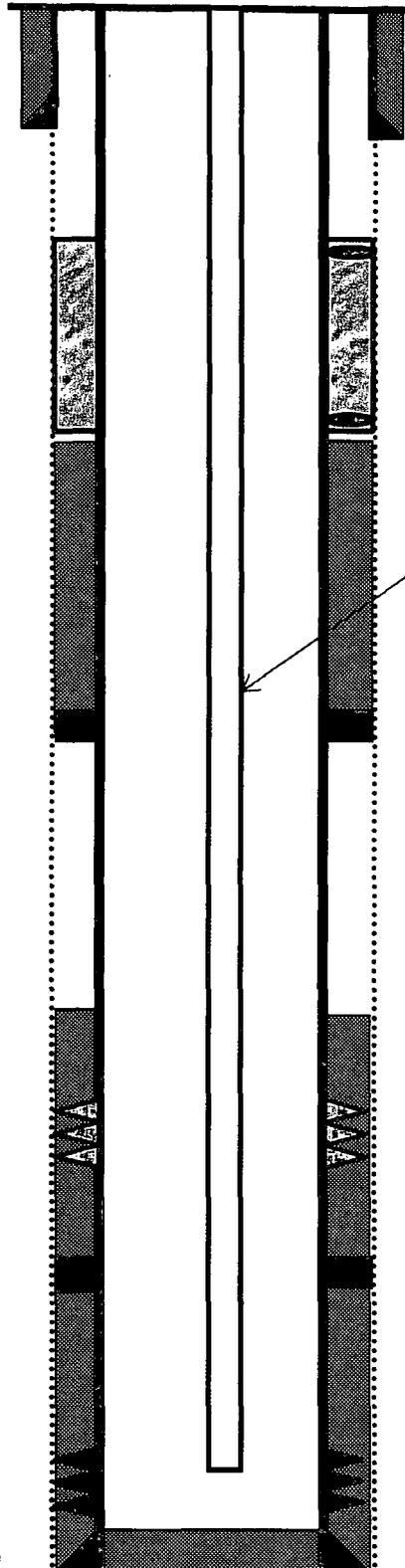
Mancos @ 5794 \*est

Gallup @ 6575'

Dakota @ 7696'

12.25" hole

7.875" hole



9-5/8" 36#, K-55 Casing set @ 218'  
Cement with 224 cf, circulated

Squeeze casing leaks from 1420' to  
1500' with total 293 cf (2002)

Squeeze casing leaks from 2810' to  
2870' with total 59 cf (2002)

TOC @ 2700' (T.S.)

2-3/8" tubing at 7689' KB  
(247 jts, 4.7#, J-55 EUE with SN at 7681' KB)

DV Tool at 3540'  
2nd Stage: Cement with 405 cf

OIL CONS. DIV DIST. 3

NOV 03 2014

TOC @ 5100' (2002 CBL  
from 6000' to 5100')

Mesaverde Perforations:  
5568' - 5782'  
(sqz'd with total 531 cf cement, 2002)

DV Tool at 6158'  
2nd Stage: Cement with 551 cf

TOC unknown

Dakota Perforations:  
7565' - 7753'

4.5", 10.5#/11.6#, K-55 Casing set @ 7875'  
1st Stage: Cement with 393 cf

TD 7875'  
PBDT 7858'

# Jicarilla 123 C #32E Proposed P&A

West Lindrith Gallup / Dakota

1550' FSL, 1520' FWL, Section 6, T-25-N, R-4-W

Rio Arriba County, NM, API #30-039-22971

Today's Date: 9/9/14

Spud: 5/27/82

Completed: 7/7/82

Elevation: 6954' GI  
6965' KB

12.25" hole

Nacimiento @ 1849' \*est

Ojo Alamo @ 2904'

Kirtland @ 3016'

Fruitland @ 3202'

Pictured Cliffs @ 3351'

Chacra @ 4216' \*est

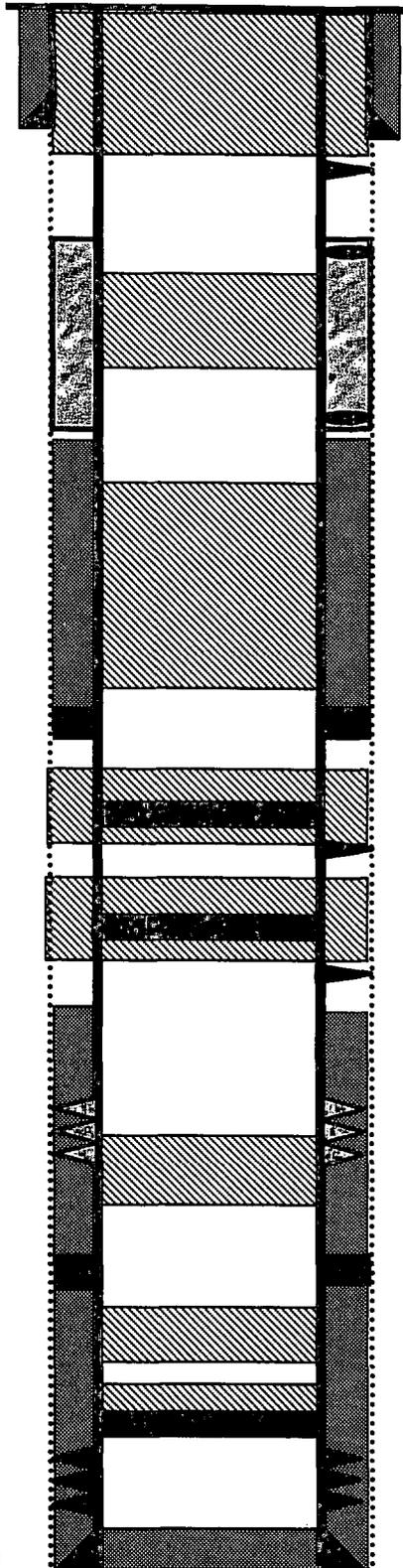
Mesaverde @ 5008'

Mancos @ 5794 \*est

Gallup @ 6575'

Dakota @ 7696'

7.875" hole



TD 7875'  
PBD 7858'

**Plug #8: 268' - 0'**  
Class B cement, 110 sxs

9-5/8" 36#, K-55 Casing set @ 218'  
Cement with 224 cf, circulated

**Perforate @ 268'**

Squeeze casing leaks from 1420' to  
1500' with total 293 cf (2002)

**Plug #7: 1899' - 1799'**  
Class B cement, 12 sxs

Squeeze casing leaks from 2810' to  
2870' with total 59 cf (2002)

TOC @ 2700' (T.S.)

**Plug #6: 3401' - 2854'**  
Class B cement, 46 sxs

**OIL CONS. DIV. DIST. 3**

**NOV 03 2014**

DV Tool at 3540'  
2nd Stage: Cement with 405 cf

**Set CR @ 4216'**

**Plug #5: 4266' - 4166'**  
Class B cement, 51 sxs;  
12 inside and 39 outside

**Perforate @ 4266'**

**Set CR @ 5008'**

**Plug #4: 5058' - 4958'**  
Class B cement, 51 sxs;  
12 inside and 39 outside

**Perforate @ 5058'**

TOC @ 5100' (2002 CBL  
from 6000' to 5100')

Mesaverde Perforations:  
5568' - 5782'  
(sqz'd with total 531 cf cement, 2002)

**Plug #3: 5844' - 5744'**  
Class B cement, 12 sxs

DV Tool at 6158'  
2nd Stage: Cement with 551 cf

TOC unknown

**Plug #2: 6625' - 6525'**  
Class B cement, 12 sxs

**Set CR @ 7515'**

Dakota Perforations:  
7565' - 7753'

**Plug #1: 7515' - 7415'**  
Class B cement, 12 sxs

4.5", 10.5#/11.6#, K-55 Casing set @ 7875'  
1st Stage: Cement with 393 cf

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
FARMINGTON DISTRICT OFFICE  
6251 COLLEGE BLVD.  
FARMINGTON, NEW MEXICO 87402

Attachment to notice of  
Intention to Abandon:

Re: Permanent Abandonment  
Well: Jicarilla 123 C #32

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Leases."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.
3. The following modifications to your plugging program are to be made:
  - a) Bring the top of plug #2 to 6370 ft. to cover the Gallup top. Adjust cement volume accordingly.
  - b) Set plug #3 (5932-5832) ft. to cover the Mancos top.
  - c) Bring the top of plug #6 to 2804 ft. to cover the Pictured Cliffs, Fruitland, Kirtland and Ojo Alamo tops. Adjust cement volume accordingly.
  - d) Set plug #7 (1554-1454) ft. to cover the Nacimiento top.

Operator will run a CBL to verify cement top. Outside plugs may be revised, based on CBL result. Submit electronic copy of the log for verification to the following addresses: [tsalyers@blm.gov](mailto:tsalyers@blm.gov)  
[Brandon.Powell@state.nm.us](mailto:Brandon.Powell@state.nm.us)

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.