

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.*

SEP 22 2014

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. Jicarilla 67
2. Name of Operator ENERGEN RESOURCES CORPORATION		6. If Indian, Allottee or Tribe Name Jicarilla Apache
3a. Address 2010 Afton Place, Farmington, NM, 87401	3b. Phone No. (include area code) 505-325-6800	7. If Unit or CA/Agreement, Name and/or No. RCVD OCT 7 '14
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1850' FSL, 1190' FEL, Sec. 29, T25N, R05W		8. Well Name and No. Jicarilla 67 SE
		9. API Well No. 03-039-23969
		10. Field and Pool, or Exploratory Area S. Blanco Pictured Cliffs DIST 3
		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 type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" 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 plans to plug and abandon the Jicarilla 67 #5E per the attached procedure.

This will be a closed loop operation. NMOC will be notified 24 hrs prior to commencing 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 NMOC 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) Kyle Mason	Title District Engineer
Signature <i>Kyle Mason</i>	Date 9/17/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Troy Salyers	Title Petroleum Eng.	Date 10/2/2014
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 FFO	

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.

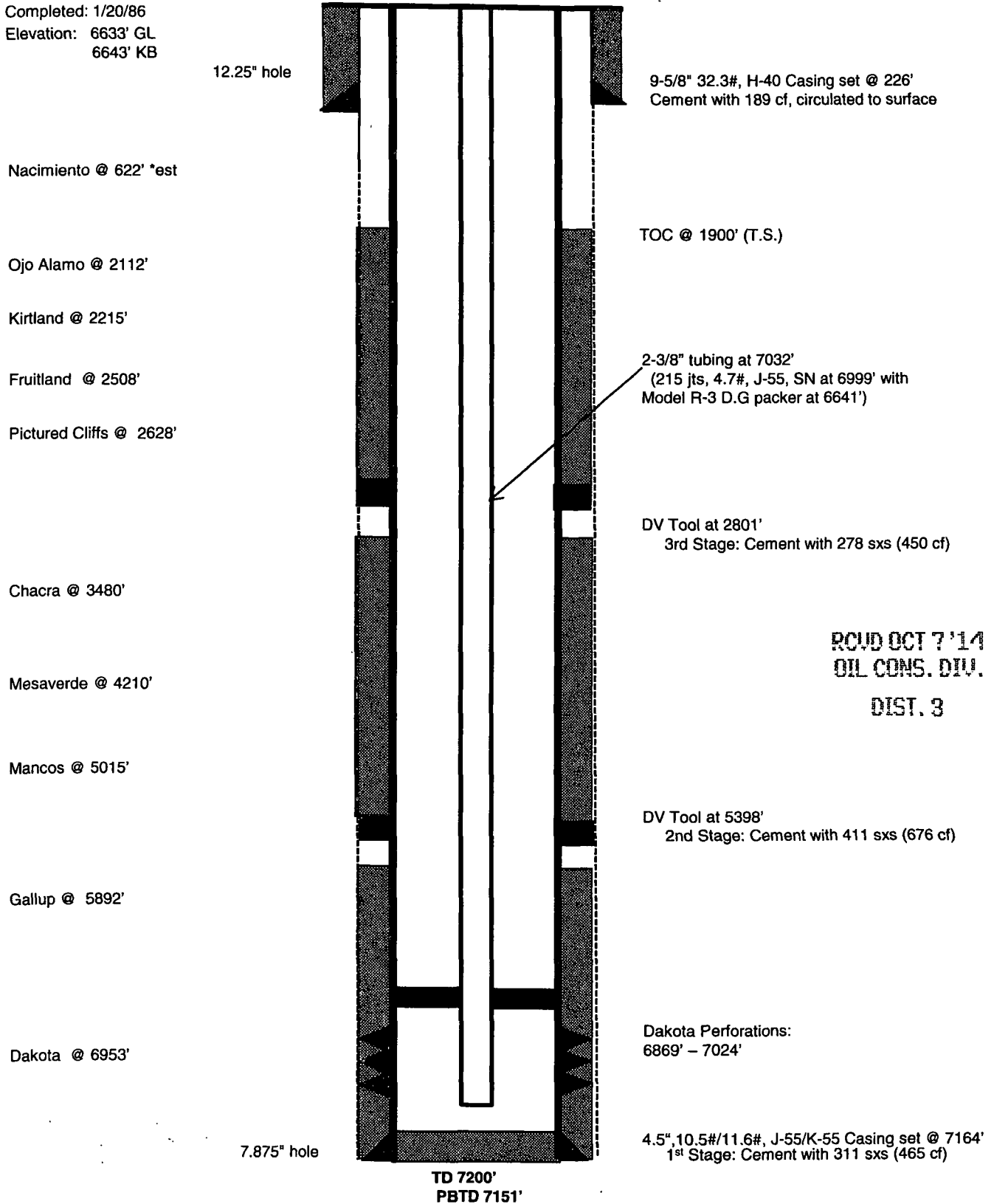
NMOC KC

Jicarilla 67 #5E

Current
Basin Dakota

Today's Date: 8/20/14
Spud: 12/24/85
Completed: 1/20/86
Elevation: 6633' GL
6643' KB

1850' FSL, 1190' FEL, Section 29, T-25-N, R-5-W
Rio Arriba County, NM, API #30-039-23969



Jicarilla 67 #5E

Proposed P&A

Basin Dakota

1850' FSL, 1190' FEL, Section 29, T-25-N, R-5-W
Rio Arriba County, NM, API #30-039-23969

Today's Date: 8/20/14

Spud: 12/24/85

Completed: 1/20/86

Elevation: 6633' GL
6643' KB

Plug #8: 276' - 0'

Class B cement, 110 sxs

12.25" hole

9-5/8" 32.3#, H-40 Casing set @ 226'
Cement with 189 cf, circulated to surface

Perforate @ 276'

Nacimiento @ 622' *est

Set CR @ 622'

Perforate @ 672'

Plug #7: 722' - 572'

Class B cement, 51 sxs
12 inside and 39 outside

Ojo Alamo @ 2112'

TOC @ 1900' (T.S.)

Kirtland @ 2215'

Plug #6: 2678' - 2062'

Class B cement, 51 sxs

Fruitland @ 2508'

RCVD OCT 7 '14
OIL CONS. DIV.

DIST. 3

Pictured Cliffs @ 2628'

DV Tool at 2801'

3rd Stage: Cement with 278 sxs (450 cf)

Chacra @ 3480'

Plug #5: 3530' - 3430'

Class B cement, 12 sxs

Mesaverde @ 4210'

Plug #4: 4260' - 4160'

Class B cement, 12 sxs

Mancos @ 5015'

Plug #3: 5065' - 4965'

Class B cement, 12 sxs

DV Tool at 5398'

2nd Stage: Cement with 411 sxs (676 cf)

Gallup @ 5892'

Plug #2: 5942' - 5842'

Class B cement, 12 sxs

Dakota @ 6953'

Plug #1: 6819' - 6719'

Class B cement, 12 sxs

Set CR @ 6819'

Dakota Perforations:
6869' - 7024'

7.875" hole

4.5", 10.5#/11.6#, J-55/K-55 Casing set @ 7164'
1st Stage: Cement with 311 sxs (465 cf)

TD 7200'
PBD 7151'

PLUG AND ABANDONMENT PROCEDURE

August 20, 2014

Jicarilla 67 #5E

Basin Dakota

1850' FSL and 1190' FSL, Section 29, T25N, R11W
Rio Arriba County, New Mexico / API 30-039-23969

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 project will 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 X, Unknown____.
Tubing: Yes X, No____, Unknown____, Size 2-3/8, Length 7032'.
Packer: Yes X, No____, Unknown____, Type Model R-3 D.G packer 6641'.
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 CBL log was not previously run. 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, 6819' – 6719'):** Round trip gauge ring or casing scraper to 6819', or as deep as possible. RIH and set 4.5" cement retainer at 6819'. 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 6819' to isolate the Dakota interval. PUH.

See COA
6. **Plug #2 (Gallup top, 5942' -5842'):** 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, 5065' – 4965'):** 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 top, 4260' - 4160'):** Mix and pump 12 sxs Class B cement and spot a balanced plug inside casing to cover the Mesaverde top. PUH.

9. **Plug #5 (Chacra top, 3530' - 3430'):** Mix and pump 12 sxs Class B cement and spot a balanced plug inside casing to cover the Chacra top. PUH
10. **Plug #6 (Pictured Cliffs, Fruitland, Kirtland and Ojo Alamo tops, 2678' – 2062'):** Mix and pump 51 sxs Class B cement and spot a balanced plug inside casing to cover through the Ojo Alamo top. TOH.
- See COA**
11. **Plug #7 (Nacimiento top, 672' – 572'):** Perforate squeeze holes at 572'. Attempt to establish rate if the casing pressure tested. TIH and set CR at 622'. Mix and pump 51 sxs Class B cement, squeeze 39 sxs outside 4.5" casing and leave 12 sxs inside casing to cover Nacimiento. TOH.
12. **Plug #8 (9-5/8" casing shoe and surface, 276' - Surface):** Perforate 3 squeeze at 276'. Establish circulation out bradenhead and casing valve. Mix 110 sxs Class B cement and pump down PC casing and circulate good cement out casing valve and bradenhead valve. SI 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

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 67 #5E

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 5779 ft. to cover the Gallup top. Adjust cement volume accordingly.
 - b) Set plug #3 (5126-5026) ft. to cover the Mancos top.
 - c) Set plug #7 (771-671) ft. inside/outside to cover the Nacimiento top.

Operator will run a CBL from 6819 ft., or as deep as possible, 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 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.