Form 3160-5
(September 2001)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires: January 31, 2004

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
FEB 09 2009
Bureau of Land Management
Farmington Field Office

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.
Jicarilla Contract 109

6. If Indian, Allottee or Tribe Name
Jicarilla Apache

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

1. Type of Well
☐ Oil Well ☑ Gas Well ☐ Other

8. Well Name and No.
Jicarilla B #3M

2. Name of Operator
CDX RIO, LLC

9. API Well No.
30-039-29638

3a. Address
2010 Afton Place, Farmington, New Mexico 87401

3b. Phone No. *(include area code)*
(505) 326-3003

10. Field and Pool, or Exploratory Area
Blanco Mesaverde/Basin Dakota

4. Location of Well *(Footage, Sec., T, R., M., or Survey Description)*
1900'FSL, 2300'FEL, Section 15, T-26-N, R-5-W

DHC-2151az

11. County or Parish, State
Rio Arriba County, New Mexico

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☑ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

3. 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 recomplete 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 site is ready for final inspection.)

It is intended to plug back the subject well according to the attached procedure and wellbore diagrams.

Please consider this sundry as a request to temporaily abandon this well after the plug back is completed for future operatons that will include sidetrack and redrill as a commingled Mesaverde and Dakota Formations production well.

Verbal approval to plug back and temporarily abandon this well was obtained from Jim Lovato and Steve Mason, BLM on January 23, 2009.

RCVD FEB 18 '09
OIL CONS. DIV.
DIST. 3

NOTIFY NMOCD AZTEC 24 HOURS PRIOR TO START OF OPERATIONS

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

Title Authorized Agent

Signature Nancy Oltmanns

Date 2/5/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by *(Signature)* **Original Signed: Stephen Mason**

Name *(Printed/Typed)*

Title

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

Date
FEB 12 2009

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.

(Continued on next page)

NMOCD

B 3M Project
Temporary Plug & Abandonment
Procedures

See Exhibit "A"

1) Test anchor points. (State/Federal requirements)
2) Move in and rig up work over rig, pump, pit, BOP, work string, and flow back tank.
3) Nipple up and test BOP. Wellhead is 7 1/16" 5,000 psi. All down hole tools and work string must be calipered and strapped before going in the hole.

Weatherford Composite Bridge Plug – See Exhibit "B"

4) Pick up bit, 4-6 3" drill collars, and 2 3/8" work string and go in the hole. Have enough tubing on-hand to reach 7,264'. Break circulation @ +/- 1,000'. Bit size 6" or 5 7/8". (Working inside 7" 26#/ft.- I.D- 6.366", Drift- 6.151", Burst 6,340 psi, Collapse-3,830 psi.)
5) Break circulation every 1,000'. Slow as the string goes by the Stage Tool @ 2,614'.
6) Tag-up on the Weatherford Composite Bridge Plug @ 3,243'.
7) Circulate the hole clean (reverse circulation will allow the greatest lift through the tubing).
8) Drill up the Weatherford Composition Bridge Plug.

Dakota Plug –See Exhibit "C'

9) Work to the top of the liner @ 3,243'.
10) Trip out of hole with bit, lay down collars, pickup saw tooth collar and go in hole.
11) Care must be taken going in or out of the top of the liner. You will be working inside 4 1/2" casing @ this point, 4 1/2" 11.6#/ft., N-80, I.D – 3.958", Drift - 3.833", Burst - 8,430 psi, Collapse – 7,500 psi.
12) Work the string to the PBTD at 7,511' circulate the well clean.
13) Pull up to 7,410' (50' below the top of the Dakota).
14) Establish circulation. Mix and pump 16 sks of cement. Cement Class "H", yield 1.15 cu.ft/sk, water requirement 5.8 gals per sack. .0872 cu.ft./ft x 100' = 8.72 cu.ft. Excess = 100%. Total 18.00 cu. Ft. Plug length + 100'. Balance plug operation. Note – before starting cement work, **all** calculation must be re-calculated at the job site.
15) Pull up +300' and reverse out to assure no cement in the tubing string.
16) Pull up and additional 300'.
17) Allow 24 hrs. go in the hole and tag plug. Pull out of the hole and stand back all tubing.

Gallup Plug – See Exhibit "D"

18) Go in with wire line and perforate 2spf @ 6,545' & 6,513'. Top of the Gallup Formation is @ ~~6,512~~ 6334'.
19) Go in the hole with a cement retainer on wire line and set @ 6,490' Casing size 4 ½".
20) Rig down wire line unit.
21) Go in the hole with tubing, circulate above the retainer and sting in. Care must be taken when stinging into the cement retainer. Pump into perforations. If the tubing does not re-act to the stinging operation of the retainer, pull out of the hole, drill up the retainer and repeat step 19 through 21.
22) Pull out of retainer and mix 72 sks. of cement, sting into retainer and pump cement. Allow +5 sks. of cement in the tubing as the tubing is pulled out of the retainer. Spot the ~~five~~ remaining sks. of cement on top of the retainer. Calculations - .0872 cu.ft./ft. x 55' = 4.8 cu.ft. Pump + 30.75 cu.ft of cement into perforation = 35.55 cu.ft. Excess = 100% Total 71 cu.ft. (68 sks.). Note cement volumes should be adjusted up if pump in rates are two bbls/ min. or greater. **Maximum** squeeze pump pressure is 2,500 psi. Excess cement should be allowed to dump on top of the cement retainer.

Bring top of plug to 6288'

23) Pull up 300' and reverse out to assure no cement in the tubing string.
24) Pull out of the hole with the tubing string.

Mesaverde Plug – See Exhibit "E"

25) Go in the hole with wire line and perforate 2spf @ 4,866' & 4,844'. Top of the Mesaverde Formation is @ 4,837'.

26) Go in the hole with a cement retainer on wire line and set @ 4,825' Casing size 4 ½".
27) Rig down wire line unit.
28) Go in the hole with tubing, circulate above the retainer and sting in. Care must be taken when stinging into the cement retainer. Pump into perforations if the tubing does not re-act to the stinging operation of the retainer, pull out of the hole, drill up the retainer and repeat step 26 through 28.
29) Pull out of retainer and mix 65sks. of cement, sting into retainer and pump cement. Allow +5 sks of cement in the tubing as the tubing is pulled out of the retainer. Spot the five remaining sks. of cement on top of the retainer. Calculations - .0872 cu.ft./ft x 41' = 3.57 cu.ft. Pump 30.75 cu.ft. of cement into perforations = 34.32 cu.ft. Excess = 100% Total 68.64 cu.ft. (60 sks.). Note cement volumes should be adjusted up if pump in rates are two bbls./min. or greater. **Maximum** squeeze pump pressure is 2,500 psi. Excess cement should be allowed to dump on top of the cement retainer.
30) Pull up 300' and reverse out to assure no cement in the tubing string.
31) Pull out of the hole with the tubing string.

Top of the Liner – See Exhibit "F"

Chaer plug 9110' - 4040' inside casing 4½" casing

32) Go in the hole with wire line and perforate 2spf @ 3,475'. Top of the liner is @ 3,243'.
33) Go in the hole with a cement retainer on wire line and set @ 3,200'. Casing size 7".
34) Rig down wire line unit.
35) Go in the hole with tubing, circulate above the retainer and sting in. Care must be taken when stinging into the cement retainer. If the tubing does not re-act to the stinging operations of the retainer, pull out of the hole, drill up the retainer and repeat step 33 through 35.
36) Pull out of retainer and mix 52 sks. of cement, sting into retainer and pump cement. Allow +5 sks of cement in the tubing as the tubing is pulled out of the retainer. Spot the five remaining sks. of cement on top of the retainer. Calculations - .0872 cu.ft/ft x 232 ft = 20.23 cu.ft. .2148 cu.ft./ft. (capacity of 7" casing) x 43 ft = 9.2364 cu.ft, .1044 cu.ft./ft (between 7" casing & 4 ½" casing) x 232 ft = 24.22 cu.ft. Excess = 100% 53.68 cu.ft. (47 sks.). Maximum squeeze pump pressure is 2,200 psi.
37) Pull up 300' and reverse out to assure no cement in the tubing string.
38) Pull out of the hole with the tubing string.
39) Pick up a casing scraper and work through the hole to 3,000'. Care must be taken going through the stage tool at 2,614'.The hole is now plugged back and ready for the side track operations.

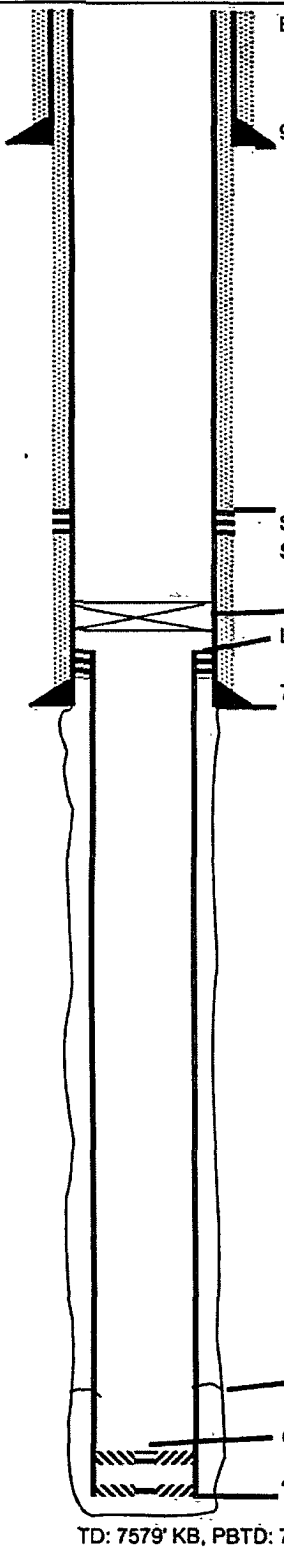
Jicarilla B No. 3M

Location: 1900' FSL, 2300' FEL, Sec 15, T26N, R5W, Rio Arriba County, New Mexico
Lse #: Jicarilla Contract #109

Field: Blanco MV / Basin DK

API #: 30-039-29638

Spud Date: April 21, 2006



Elevation: 6611'GR, 6623'KB

9 5/8" 36# K55 STC CSA 316' w/180sxs

Stage Tool @ 2614' cmt w/275sxs
Stage Tool leaked. Squeezed w/50sxs cmt. Held pressure OK.

8/21/07 WL set Weaterford Composite Bridge Plu. Pr Test to 1000# 20 min

Liner top @ 3243'

7" 26# N80 LTC CSA 3500' cmt w/155 sxs

Squeeze Perforations:
4 ea, JSPF, 0.50, 120° @7180-81: 6/9/2007
4 ea, JSPF, 0.50, 120° @7200-01: 6/13/2007
4 ea, JSPF, 0.50, 120° @7357-58: 6/13/2007
4 ea, JSPF, 0.50, 120° @7553-54: 6/9/2007

New TOC @7264: Greenhorn Covered with Gap in Graneros

Cement Retainer @7511

4 1/2" 11.6# N80 LTC LSA 7573' cmt w/75sx 50/50 Poz

TD: 7579' KB, PBTD: 7579' KB

Chester Deal
1/23/2009

Jicarilla B No. 3M

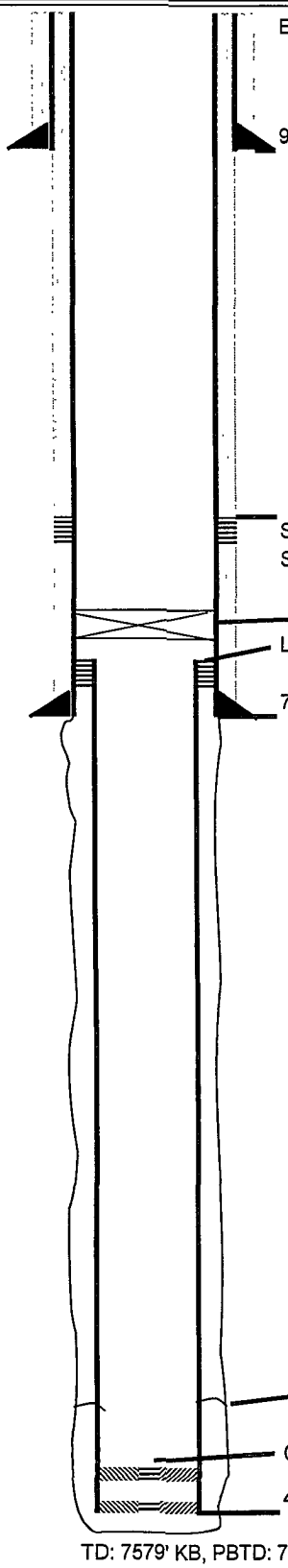
Location: 1900' FSL, 2300' FEL, Sec 15, T26N, R5W, Rio Arriba County, New Mexico
Lse #: Jicarilla Contract #109

Field: Blanco MV / Basin DK

API #: 30-039-29638

Spud Date: April 21, 2006

Exhibit "A"



Elevation: 6611'GR, 6623'KB

9 5/8" 36# K55 STC CSA 316' w/180sxs

Stage Tool @ 2614' cmt w/275sxs
Stage Tool leaked. Squeezed w/50sxs cmt. Held pressure OK.

8/21/07 WL set Weaterford Composite Bridge Plu. Pr Test to 1000# 20 min

Liner top @ 3243'

7" 26# N80 LTC CSA 3500' cmt w/155 sxs

Squeeze Perforations:
4 ea, JSPF, 0.50, 120° @7180-81: 6/9/2007
4 ea, JSPF, 0.50, 120° @7200-01: 6/13/2007
4 ea, JSPF, 0.50, 120° @7357-58: 6/13/2007
4 ea, JSPF, 0.50, 120° @7553-54: 6/9/2007

New TOC @7264: Greenhorn Covered with Gap in Graneros

Cement Retainer @7511

4 1/2" 11.6# N80 LTC LSA 7573' cmt w/75sx 50/50 Poz

TD: 7579' KB, PBTD: 7579' KB

Chester Deal
2/5/2009

Jicarilla B No. 3M

Elevation: 6611'GR, 6623'KB

L 1900' FSL, 2300' FEL, Sec 15, T26N, R5W, Rio Arriba County, New Mexico
Lse #: Jicarilla Contract #109

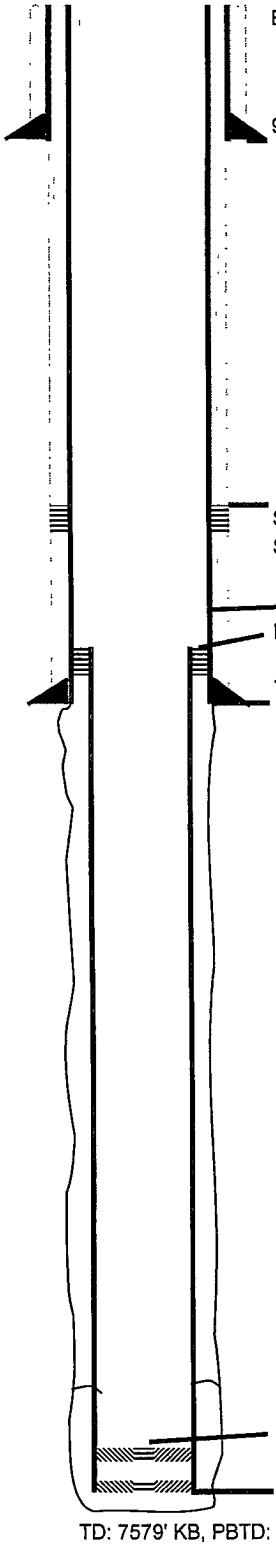
F Blanco MV / Basin DK

A 30-039-29638

S April 21, 2006

Exhibit "B"

Step #8 - Weatherford Composite Plug



9 5/8" 36# K55 STC CSA 316' w/180sxs

Stage Tool @ 2614' cmt w/275sxs
Stage Tool leaked. Squeezed w/50sxs cmt. Held pressure OK.

8/21/07 WL set Weaterford Composite Bridge Plu. Pr Test to 1000# 20 min

Liner top @ 3243'

7" 26# N80 LTC CSA 3500' cmt w/155 sxs

Squeeze Perforations:
4 ea, JSPF, 0.50, 120° @7180-81: 6/9/2007
4 ea, JSPF, 0.50, 120° @7200-01: 6/13/2007
4 ea, JSPF, 0.50, 120° @7357-58: 6/13/2007
4 ea, JSPF, 0.50, 120° @7553-54: 6/9/2007

New TOC @7264: Greenhorn Covered with Gap in Graneros

Cement Retainer @7511

4 1/2" 11.6# N80 LTC LSA 7573' cmt w/75sx 50/50 Poz

TD: 7579' KB, PBTD: 7579' KB

Chester Deal
2/5/2009

Jicarilla B No. 3M

Elevation: 6611'GR, 6623'KB

L 1900' FSL, 2300' FEL, Sec 15, T26N, R5W, Rio Arriba County, New Mexico
Lse #: Jicarilla Contract #109

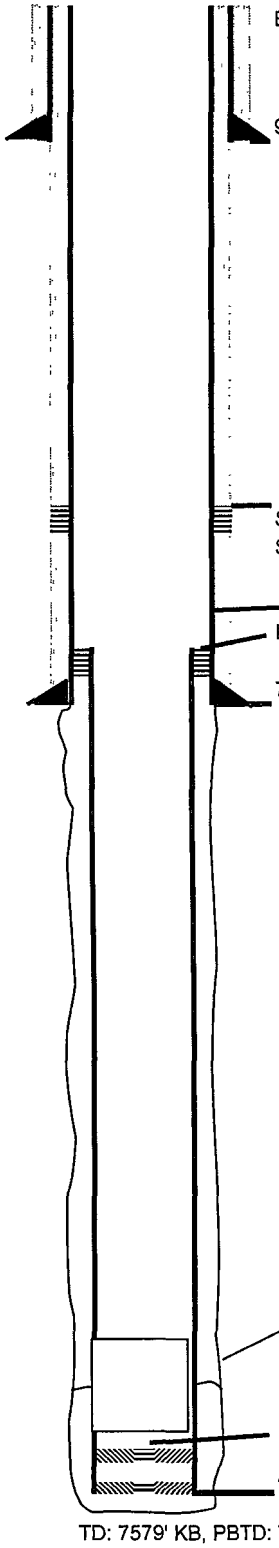
F Blanco MV / Basin DK

A 30-039-29638

S April 21, 2006

Exhibit "C"

Step #14 - Gallup Plug



9 5/8" 36# K55 STC CSA 316' w/180sxs

Stage Tool @ 2614' cmt w/275sxs
Stage Tool leaked. Squeezed w/50sxs cmt. Held pressure OK.

8/21/07 WL set Weaterford Composite Bridge Plu. Pr Test to 1000# 20 min

Liner top @ 3243'

7" 26# N80 LTC CSA 3500' cmt w/155 sxs

Squeeze Perforations:
4 ea, JSPF, 0.50, 120° @7180-81: 6/9/2007
4 ea, JSPF, 0.50, 120° @7200-01: 6/13/2007
4 ea, JSPF, 0.50, 120° @7357-58: 6/13/2007
4 ea, JSPF, 0.50, 120° @7553-54: 6/9/2007

Dakota Plug 7,410' -+ 7,310'

New TOC @7264: Greenhorn Covered with Gap in Graneros

Cement Retainer @7511

4 1/2" 11.6# N80 LTC LSA 7573' cmt w/75sx 50/50 Poz

TD: 7579' KB, PBTD: 7579' KB

Chester Deal
2/5/2009

CDX GAS

Jicarilla B No. 3M

Elevation: 6611'GR, 6623'KB

Location: 1900' FSL, 2300' FEL, Sec 15, T26N, R5W, Rio Arriba County, New Mexico
Lse #: Jicarilla Contract #109

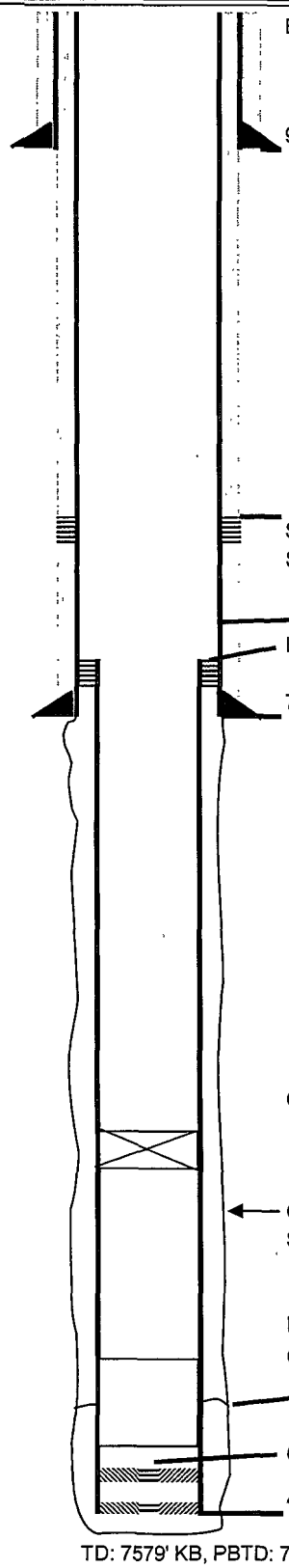
Field: Blanco MV / Basin DK

API #: 30-039-29638

Spud Date: April 21, 2006

Exhibit "D"

Step #22 - Gallup Plug



9 5/8" 36# K55 STC CSA 316' w/180sxs

Stage Tool @ 2614' cmt w/275sxs
Stage Tool leaked. Squeezed w/50sxs cmt. Held pressure OK.

8/21/07 WL set Weaterford Composite Bridge Plu. Pr Test to 1000# 20 min

Liner top @ 3243'

7" 26# N80 LTC CSA 3500' cmt w/155 sxs

Cement Retainer @ 6,490'

Gallup Plug - 6,545' - 6,490'
Squeeze Perforations - 6,545' & 6,513' - 2spf

Dakota Plug - 7,410' - +7,310'
Cement Plug

New TOC @7264: Greenhorn Covered with Gap in Graneros

Cement Retainer @7511

4 1/2" 11.6# N80 LTC LSA 7573' cmt w/75sx 50/50 Poz

TD: 7579' KB, PBTD: 7579' KB

Chester Deal
2/5/2009

Jicarilla B No. 3M

Location: 1900' FSL, 2300' FEL, Sec 15, T26N, R5W, Rio Arriba County, New Mexico
Lse #: Jicarilla Contract #109

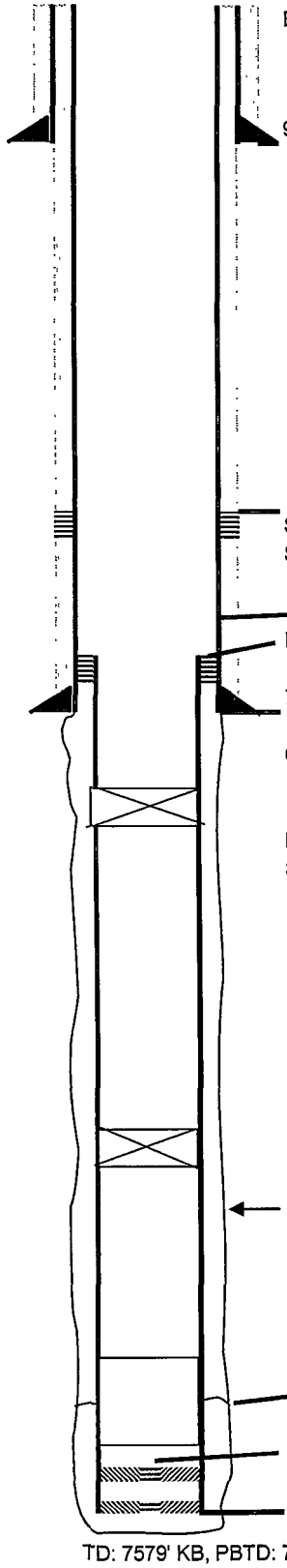
Field: Blanco MV / Basin DK

API #: 30-039-29638

Spud Date: April 21, 2006

Exhibit "E"

Step #29 -Mesaverde Plug



Elevation: 6611'GR, 6623'KB

9 5/8" 36# K55 STC CSA 316' w/180sxs

Stage Tool @ 2614' cmt w/275sxs
Stage Tool leaked. Squeezed w/50sxs cmt. Held pressure OK.

Liner top @ 3243'

7" 26# N80 LTC CSA 3500' cmt w/155 sxs

Cement Retainer @ 4,825'

Mesaverde Plug - 4,866' -4,825'
Squeeze Perforations - 4,866' & 4,844' - 2 spf

Cement Retainer @ 6,490'

Gallup Plug - 6,545' - 6,490'
Squeeze Perforations - 6,545' & 6,513' - 2spf

Dakota Plug - 7,410' - +7,310'
Cement Plug

New TOC @7264: Greenhorn Covered with Gap in Graneros

Cement Retainer @7511

4 1/2" 11.6# N80 LTC LSA 7573' cmt w/75sx 50/50 Poz

TD: 7579' KB, PBTD: 7579' KB

Chester Deal
2/5/2009

Jicarilla B No. 3M

Location: 1900' FSL, 2300' FEL, Sec 15, T26N, R5W, Rio Arriba County, New Mexico
Lse #: Jicarilla Contract #109

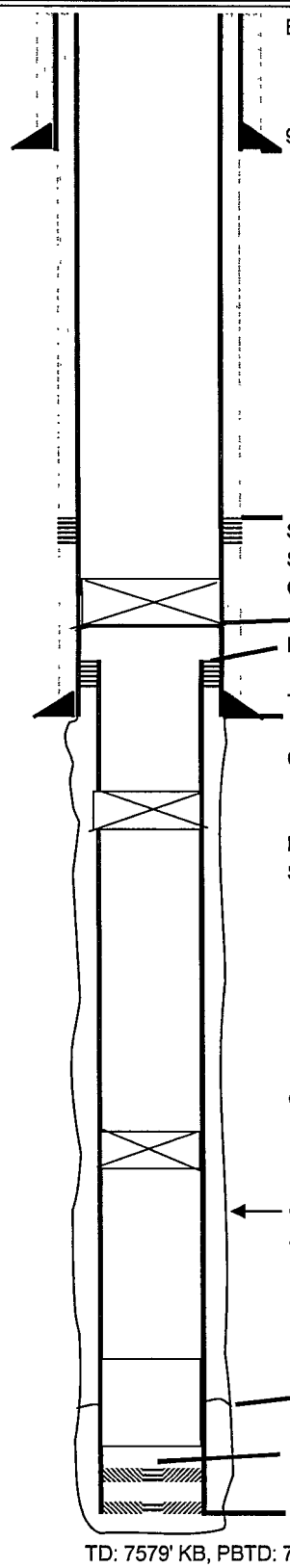
Field: Blanco MV / Basin DK

API #: 30-039-29638

Spud Date: April 21, 2006

Exhibit "F"

Step #36 -Liner Top Plug



Elevation: 6611'GR, 6623'KB

9 5/8" 36# K55 STC CSA 316' w/180sxs

Stage Tool @ 2614' cmt w/275sxs
Stage Tool leaked. Squeezed w/50sxs cmt. Held pressure OK.
Cement Retainer @ 3,200'

Liner top @ 3243' **Liner top Plug**
Squeeze Perforation - 3,475'

7" 26# N80 LTC CSA 3500' cmt w/155 sxs

Cement Retainer @ 4,825'

Mesaverde Plug - 4,866' -4,825'
Squeeze Perforations - 4,866' & 4,844' - 2 spf

Cement Retainer @ 6,490'

Gallup Plug - 6,545' - 6,490'
Squeeze Perforations - 6,545' & 6,513' - 2spf

Dakota Plug - 7,410' - +7,310'
Cement Plug

New TOC @7264: Greenhorn Covered with Gap in Graneros

Cement Retainer @7511

4 1/2" 11.6# N80 LTC LSA 7573' cmt w/75sx 50/50 Poz

TD: 7579' KB, PBTD: 7579' KB

Chester Deal
2/5/2009

Geologic Report: Tapicito Project, San Juan Basin — CDX GAS

PEK: 7/13/2007

Header

Well Name & Number: JICARILLA B #3M
API: 30039296380000
Objective: MVRD/DKOT New Drill
Location: TWP: 26 N - Range: 5 W - Sec. 15
Footage: 1900 FSL 2300 FEL
Lease: JICARILLA B
Field: Blanco Mesaverde / Basin Dakota
County: Rio Arriba
State: New Mexico

Latitude: 36.485142
Longitude: -107.344987

GL Elevation: 6599
KB Elevation: [redacted]
TD: [redacted]

Formation Tops	Top MD (KB)	Top Subsea (KB)	Rock Type	Comments
Quaternary Alluvium	0	[redacted]	Gravels	Possible Lost Circulation, Water
San Jose	0	[redacted]	Sandstone, Shale	Possible Lost Circulation, Water
Ojo Alamo Sandstone	[redacted]	[redacted]	Sandstone	Possible Differential, Gas, Water
Kirtland Formation	[redacted]	[redacted]	Shale	
Fruitland Formation	[redacted]	[redacted]	Coal,Shale,Sandstone	Possible Lost Circulation Zone, Gas, Water
Pictured Cliffs Sandstone	[redacted]	[redacted]	Sandstone	Possible Differential, Gas, Water
Lewis Shale	[redacted]	[redacted]	Shale	
Huerfanito Bentonite Bed	[redacted]	[redacted]	Shale	
Chacra Interval	[redacted]	[redacted]	Siltstone	Gas, Water
Mesaverde Formation (MVRD)	[redacted]	[redacted]	Coal,Sandstone,Shale	Possible Lost Circulation, Gas, Water
Cliff House Sandstone (MVRD)	[redacted]	[redacted]	Sandstone	Possible Lost Circulation, Gas, Water
Menefee Member (MVRD)	[redacted]	[redacted]	Coal,Sandstone,Shale	Possible Lost Circulation, Gas, Water
Point Lookout Sandstone (MVRD)	[redacted]	[redacted]	Sandstone	Possible Lost Circulation, Gas, Water
Mancos Shale	[redacted]	[redacted]	Shale	
Gallup Formation (GLLP)	[redacted]	[redacted]	Siltstone, Shale	Gas
Tocito Member (GLLP)	[redacted]	[redacted]	Sandstone	Gas
Juan Lopez Member (GLLP)	[redacted]	[redacted]	Sandstone	Gas
Greenhorn Limestone	[redacted]	[redacted]	Limestone	Gas
Graneros Shale	[redacted]	[redacted]	Shale	Gas, Water, Possible Overpressure
Dakota Formation (DKOT)	[redacted]	[redacted]	Sandstone,Shale,Coal	Gas, Water, Possible Overpressure
Two Wells Sandstone (DKOT)	[redacted]	[redacted]	Sandstone	Gas, Water, Possible Overpressure
Paguate Sandstone (DKOT)	[redacted]	[redacted]	Sandstone	Gas, Water, Possible Overpressure
Upper Cubero Sandstone (DKOT)	[redacted]	[redacted]	Sandstone	Gas, Water, Possible Overpressure
Main Body (DKOT)	[redacted]	[redacted]	Shale, Sandstone	Gas, Water, Possible Overpressure
Lower Cubero (DKOT)	[redacted]	[redacted]	Shale, Sandstone	Gas, Water, Possible Overpressure
Burro Canyon (DKOT	[redacted]	[redacted]	Sandstone	Gas, Water, Possible Overpressure
Morrison Formation	[redacted]	[redacted]	Shale, Sandstone	Gas, Water, Possible Overpressure
TD	7548	-957		TD immediately below L. Cubero. On-site pick when black/brown cuttings start. Avoid wet Burro Canyon

Notes:

Proposed Casing Program:

	Size	Proposed Depth	Comments
Surface Casing:	9 5/8"	____	Casing program as determined by Drilling Engineer
Intermediate Casing:	7"	____	
Production Casing:	4 1/2"	____	
Tubing:	2 3/8"		

Evaluation:

	Proposed Depth	Procedure
Surface - Surface Casing:	____	None
Surface Casing to Intermediate	____	None
Intermediate to TD	____	Blue Jet GSL 3190-7548

Test Intervals:

	Formation	Proposed Depth
Core Interval:	None	
DST Interval:	None	
Flow Test:	To Be Determined	

New Completion Intervals:

	Proposed Depth
Mesaverde	[redacted]
Dakota	[redacted]

Specific perforation intervals To Be Determined