

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

Sundry Notices and Reports on Wells

2007 JUN -1 AM 11:43

1. **Type of Well**
GAS

2. **Name of Operator**
CDX RIO, LLC

3. **Address & Phone No. of Operator**

2010 Afton Place, Farmington, New Mexico 87401 (505) 326-3003

4. **Location of Well, Footage, Sec., T, R, M**
1900'FSL, 2300'FEL, Sec.15, T-26-N, R-5-W, NMPM

5. **Lease Number**
Jicarilla Contract 109
6. **If Indian, All. or**
Tribe Name
Jicarilla Apache
7. **Unit Agreement Name**

8. **Well Name & Number**

Jicarilla B #3M
9. **API Well No.**

30-039-29638
10. **Field and Pool**

Blanco Mesaverde/Basin Dakota
11. **County and State**

Rio Arriba Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission	Type of Action
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment <input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion <input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging <input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair <input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing <input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other cement procedure

13. Describe Proposed or Completed Operations

It is intended to remediate the cement in the subject well according to the attached procedure.

RCVD JUN5'07
OIL CONS. DIV.
DIST. 3

(Verbal approval for cement procedure from Steve Mason, BLM on 5-30-07)

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

Signed Nancy Oltmanns Title Agent Date 5-31-07

(This space for Federal or State Office use)

APPROVED BY Original Signed: Stephen Mason Title _____ Date JUN 04 2007
CONDITION OF APPROVAL, if any:



Jicarilla B No. 3M
AFE #: 6117

Project Summary:

The 4 1/2" liner was hung on a Baker liner hanger and packed off. There is no cement in or behind the liner. The hole was filled with fresh water. A latch down wiper plug was dropped and seated.

Our completion demands a competently cemented shoe joint and liner with all the drilled hole below the target zone to be filled with cement to contain the fracture treatment. We must establish competent cement through suicide and / or block squeezes.

Under no circumstances can we allow a right hand rotation of any tools in this hole until we have cemented at least the bottom 300' of liner.

Directions: Take Hwy 550 south from Bloomfield toward Albuquerque to the "TeePee's". At mile post 28 on Hwy 537, turn left onto lease road J6 for 8 miles to J63 on the right. Take J63 to for 2 1/2 miles to the bottom of the canyon. Turn right off J63 and continue northerly for 2 miles then right 1/2 mile and right another 1/2 mile making a fish hook route to location.

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, 02:00 hours

Elevation: 6634'GR, 6646'KB

TD: Driller TD: 7,573', PBTD: 7,550'

Wellhead: Cameron

Tubulars:

Surface: 9 5/8" 36# J55 STC CSA 316' w/ 180sx, circ

Intermediate: 7" 26# N80 LTC CSA 3,500' cmt w/ 1st stage of 155 sx, circ
6.151" ID - .0382 Bbls/Ft - 26.14 Ft/Bbl

Liner: 4 1/2" 11.6# N80 LTC LSA 7,573' , no cement in hole. The little that was pumped was circulated out.
3.875" ID - .0155 Bbls/Ft - 64.34 Ft/Bbl

Procedure:

- 1) Move in & rig up well service unit.
- 2) Nipple down wellhead. Nipple up BOP. Load hole w/ Fresh water and pressure test casing to 1,000 PSIG for 15 mins. If test is good proceed to Step 5. If test fails PU & RIH 7" Packer and 2 3/8" work string. Test Stage Tool @ 2614'. If Stage Tool leaks, contact office, initiate squeeze operations as required in Step #3. If Liner top @ 3243' leaks proceed to Step 5.
- 3) Pick up and run in RBP & 7" squeeze packer w/2 3/8" work string to 2640'. Set RBP & drop sand. Pull up to 2550' and set packer. RU squeeze manifold. Test casing annulus to 1000 PSIG for 15 mins. Pump freshwater down tubing to establish pump in rate. Spot HCl if required. Squeeze w/50 - 100 sx Class A neat. Release packer and reverse out. POOH to 2000' and reset packer. Pressure up to 500 PSIG and SI tubing and casing. WOC.
- 4) Release packer & POOH w/WS and LD packer. PU 6 1/8" bit and 3 1/8" drill collars. Tag plug and establish circulation. Drill out cement to below stage tool. Close pipe rams and test squeeze to 1,000 PSIG (Repeat squeeze procedure if required). POOH and LD squeeze packer. PU retrieving tool and latch RBP. POOH and LD.
- 5) PU & RIH with 3 3/4" Bit, 3 1/8" drill collars & 2 3/8" work string to PBTD @ 7550'. Establish circulation and drill out wiper plug. Continue drill out to TD @ 7573'. Circulate until returns are clean. Close in well and perform injectivity test. Monitor rate and pressure for remedial cementing operations.
- 6) Rig up wireline service and run gauge ring w/ junk basket to TD @ 7573'. Verify depth and POOH w/same. Pick up CBL TIH and log from 7573' to 7500'. POOH w/same. If no cement bond is indicated behind pipe skip to 9). If good bond is indicated between 7573' to 7550' proceed to 7).
- 7) Pick up CCL/perforating gun loaded w/ select fire, 0 Phased, 2 JSPF under a "pack off". Trip in hole to 7550'. Correlate depth.
- 8) Pressure up casing with rig pump to 1000 PSIG and hold pressure on well. Perforate at 7548'. Fire gun and monitor for pressure drop. Monitor well fluid level. POOH and LD perforating equipment.
- 9) PU & RIH with squeeze packer and work string to 7000'. Set Packer. There is potential for gas entry via the squeeze holes. Monitor well fluid level closely. Test packer. Pump down tubing and establish injection rate. Pump down casing and establish injection rate. Any injection rate at all down the csg. will indicate that the liner is leaking. Proceed to 10). If the liner holds pressure POOH w/ tools. TIH to perforate at 3250'. There is potential for gas entry via the squeeze holes. Monitor well fluid level closely. POOH and LD perforating equipment. RIH w/ squeeze pkr. and work string to 7000'. Set Pkr. Proceed to 10).
- 10) RU Halliburton and squeeze manifold. Pump 50 sxs, 50/50 standard POZ w/ Halad & additives. Ensure cement is clear of packer, reverse out and reset packer as necessary. WOC for a minimum of 24 hours.



Jicarilla B No. 3M
AFE #: 6117

- 11) Release packer & POOH w/WS and LD packer. PU 3 3/4 bit and 3 1/8" drill collars. Tag cement and establish circulation. Drill out cement to below squeeze perfs. Close pipe rams and test squeeze to 1,000 PSIG (Repeat squeeze procedure if required). POOH with bit, DC's and WS.
 - 12) RU Wireline. RIH and perform cement bond log. Locate TOC. RIH with perforating gun and CCL. Correlate depth and perforate above TOC. POOH with same. RIH w/squeeze packer & WS. Set Packer 400' above perfs. Test packer and establish injection rate.
 - 13) RU Halliburton and squeeze manifold. If well circulates, pump 325 sxs 50/50 standard/Poz w/.4% Halad-9 @ 13.5 ppg. Displace cement w/freshwater until clear of the packer, reverse out and reset packer as required. (if well doesn't circulate pump 150 sxs of the cement blend). Close in well. WOC for 24 hours.
 - 14) Release packer & POOH w/WS and LD packer. PU 3 3/4 bit and 3 1/8" drill collars. Tag cement and establish circulation. Drill out cement to below squeeze perfs. Close pipe rams and test squeeze to 1,000 PSIG (Repeat squeeze procedure if required). POOH with bit, DC's and WS.
 - 15) RU Wireline. RIH and perform cement bond log. Locate TOC. If bond and top of cement are acceptable proceed to Step 17. If test fails RIH with perforating gun and CCL. Correlate depth and perforate above TOC. POOH with same. RIH w/squeeze packer & WS. Set Packer 400' above perfs. Test packer and establish injection rate. Repeat sequence back to Step 13 -16.
 - 16) Trip in hole with 3 3/4" bit or 3 1/8" bit, drill collars and WS. Drill out cement necessary to clean out to PBTD at 7573'. Circulate until returns are clean. Shut in BOP's and test squeeze to 1000 PSIG. If test fails notify Farmington office and repeat squeeze procedure as required. If test is good proceed to Step 18.
 - 17) RIH in hole with 7" packer to 3200'. Test casing and liner to 5,000 PSIG. If test is good proceed to Step 19. If test fails Notify Farmington Office. Prepare for remedial squeeze operations.
 - 18) Circulate clean 2% KCl from PBTD of 7573' to surface. POOH & LD WS and packer. Load hole.
 - 19) PU & RIH on WL w/GSL tool perform cased hole log from TD to LH. POOH & LD same. ND BOP's, NU Wellhead, Shut well in and RD & release rig.
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