NMOCD copies returne fer your disposition. FORM APPROVED Form 3160-3 OMB No. 1004-0136 (August 1999) Expires November 30, 2000 CUNIFED STATES 5. Lease Serial No. DEPARTMENT OF THE INTERIOR SF - 078046 **BUREAU OF LAND MANAGEMENT** 6. If Indian, Allottee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER 7. If Unit or CA Agreement, Name and No. la. Type of Work: 🔀 DRILL □ REENTER 8. Lease Name and Well No. 1b. Type of Well: Oil Well Gas Well Other X Single Zone 🔲 Multiple Zone BW Federal 29-29-8 #101 Name of Operator 215223 CDX Rockies, LLC 3a. Address 679 East 2nd Avenue, Suite #3 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory Durango, Colorado 81301 (970)247-4126 Basin - Fruitland Pool 11. Sec., T., R., M., or Blk. and Survey or Area 4. Location of Well (Report location clearly and in accordance with any State requirements.\*) 825' FNL,772' FWL At surface At proposed prod. zone 825' FNL, 660' FWL, 660' FSL, 660' FEL Sec. 29, T29N, R8W, N.M.P.M. 13. State 14. Distance in miles and direction from nearest town or post office 4.5 miles Southwest of Navajo City, New Mexico San Juan County **NM** 15. Distance from proposed\* 17. Spacing Unit dedicated to this well 16. No. of Acres in lease location to nearest property or lease line, ft. 772 2.538 (Also to nearest drig. unit line, if any) W/2 Sec. 29, T29N, R8W, N.M.P.M. 19. Proposed Depth 20. BLM/BIA Bond No. on file 18. Distance from proposed location\* to nearest well, drilling, completed, 3,150' TVD applied for, on this lease, ft. 3,000 10,000' +/- TMD 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start\* 23. Estimated duration 6,466' GL October 15, 2002 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. Operator certification. 3. A Surface Use Plan (if the location is on National Forest System Lands, the Such other site specific information and/or plans as may be required by the SUPO shall be filed with the appropriate Forest Service Office). authorized officer. 25. Signature Name (Printed/Typed) Alvin R. (Al") Arlian Title Rocky Mountain Land Manager Approved by (Signature) Name (Printed/Typed) **/e/ David J. Mankiewicz** Title Office Application approval does not warrant or certify the 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 CION FOR Status charge to Hunghos 29 L#1

This action is subject to technical and procedural review pursuant to 43 CFR 3165.8, and appeal pursuant to 43 CFR 3165.4

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

NMOCD

DESTRUCT ( 1685 M. French Dr., Hobbs, M.M. 56840

## State of New Mexico Energy, Minerals, & Natural Resources Department

Form C-102 Revised August 15, 2000

DESTRICT II 811 South First, Artesia, M.M. 88210

*y* -.

OIL CONSERVATION DIVISION

DISTRICT III 1000 Ho Bresos Bd., Astes, N.M. 87410 2040 South Pacheco Santa Fe, NM 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DESTRUCT IV 2040 South Pacheco, Santa Fe, MM 57505

2002 SEP 17 AM 10: 25

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045-31	180 Pool Code 71629	U/U FAMMA Pool Manne M BASIN FRUITLAND POOL				
*Property Code	°P1	operty Name * Well Humber				
130560	B.W.	FED. 29-29-8 101				
OGRED No.	Operator Name					
215223	CDX ROCKIES, LLC.					

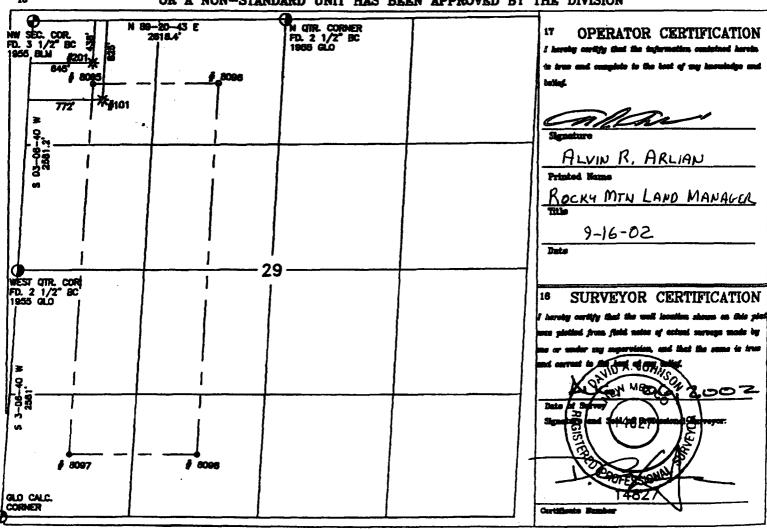
<sup>10</sup> Surface Location

UL or lot mo.	Section 29	Township 29-N	_	Feet from the 825	Morth/South line NORTH	Feet from the 772	Rost/West line WEST	County SAN JUAN	
			44	 					•

11 Rottom Hole Location If Different From Surface

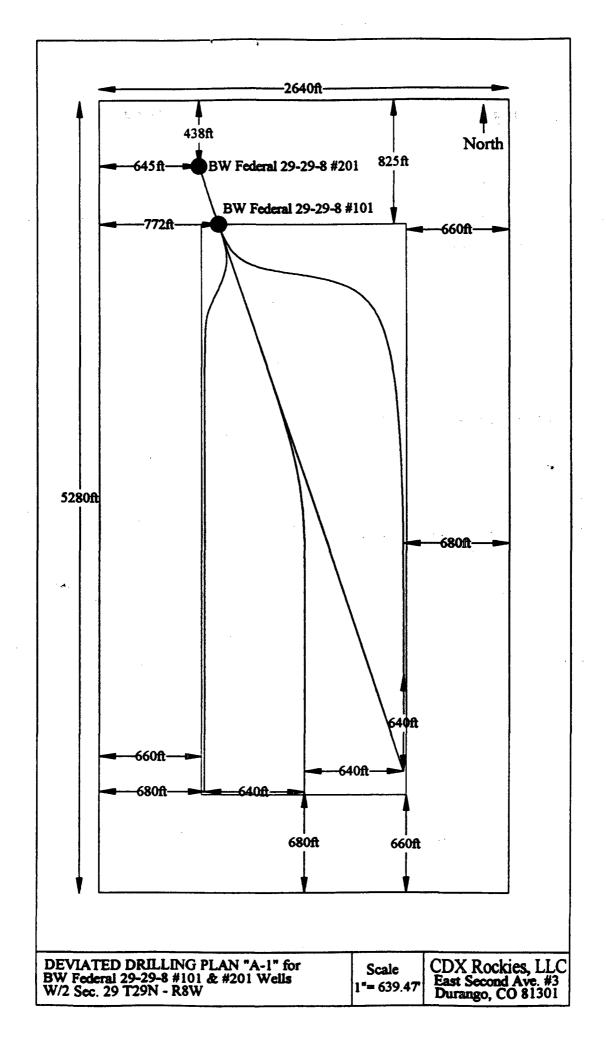
UL or let no.	Section 29	Township 29-N	Reago 8-W	Let life	Feet from the SEE ATTACH	Forth/South Hos ED DEVIATED D	Feet from the SILLING PLAN	Rest/Vest line S	County
Dedicated Acres	8		" John or	1411	<sup>36</sup> Consolidation C	ed#	*Order No.		
	320			N			NSL-4	1777	

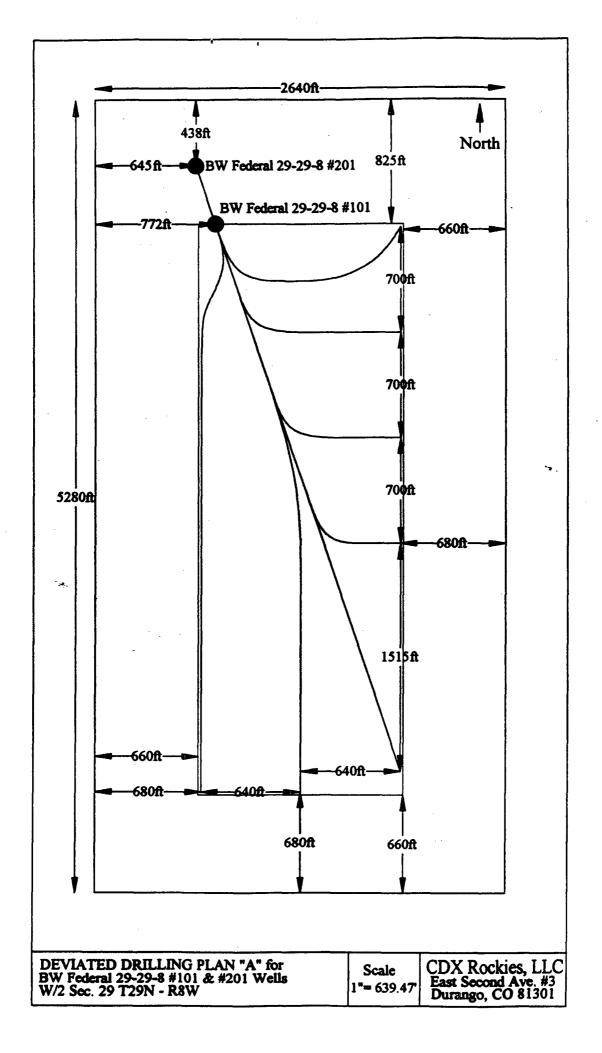
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED 16 OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

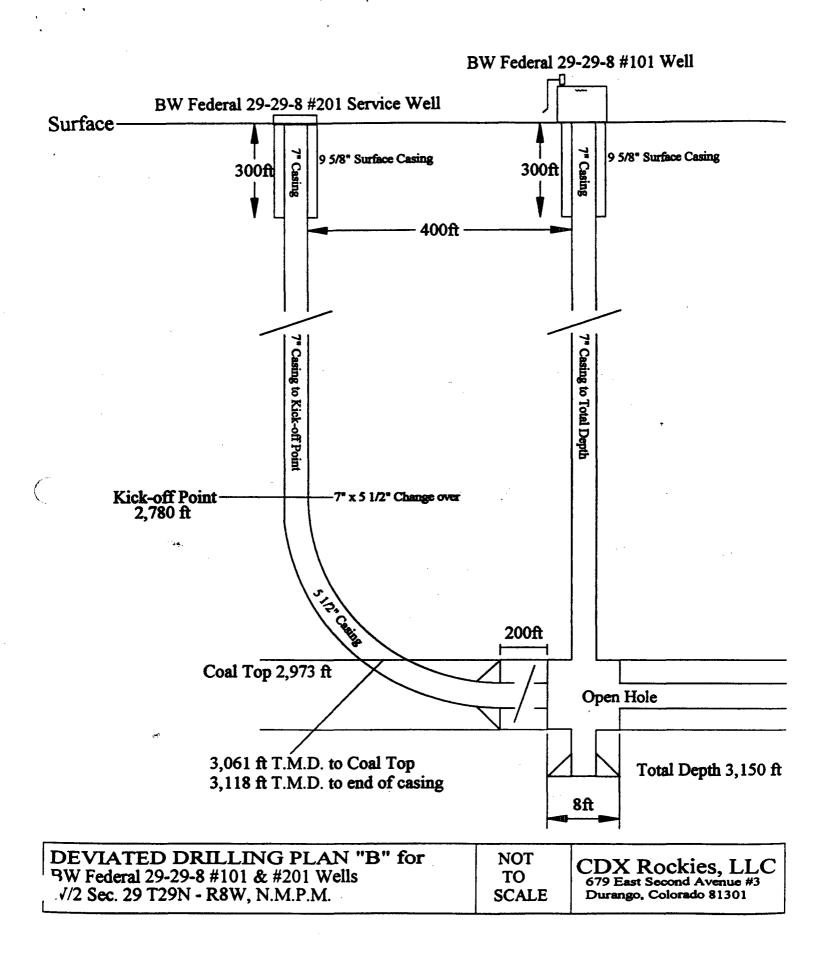


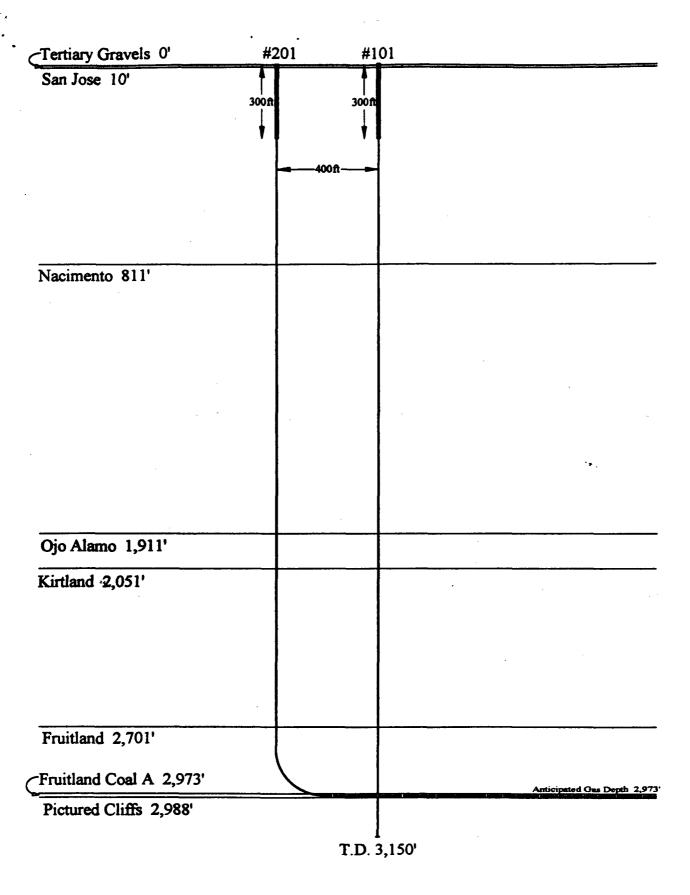
THEOCO











DEVIATED DRILLING PLAN "C" for
BW Federal 29-29-8 #101 & #201 Wells
W/2 Sec. 29 T29N - R8W, N.M.P.M.
1 11/2 0001 25 1 251 1 100 11 11 11 11 11 11 11 11 11 11 11

SCALE
1" = 392' CDX Rockies, LLC
679 East Second Avenue #3
Durango, Colorado 81301

BW Federal 29-29-8 #101 825' FNL and 772' FWL NWNW 29-T9S-R96W San Juan County, New Mexico CDX ROCKIES, LLC Lease No. SF-078046 DRILLING PROGRAM Page No. 2

will be tested to determine commercial potential. Both the Surface Pipe and Intermediate Case shall be cemented from surface to total depth protecting any possible water (See Paragraph 4. Proposed Casing and Cementing Program, Subparagraph K).

## 3. Pressure Control Equipment: (Schematic Attached)

CDX Rockies, LLC's minimum specifications for pressure control equipment are as follows:

- A. Ram Type: 10" Hydraulic double, 3000 psi w.p.
- B. Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.
- C. As a minimum, the above test shall be performed:
  - i. when initially installed;
  - ii. whenever any seal subject to test pressure is broken;
  - iii. following related repairs; and
  - iv. at 30-day intervals
- D. Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.
- E. When testing the kill line valve(s) the check valve shall be held open or the ball removed.
- F. Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

BW Federal 29-29-8 #101 825' FNL and 772' FWL NWNW 29-T9S-R96W San Juan County, New Mexico CDX ROCKIES, LLC Lease No. SF-078046 DRILLING PROGRAM Page No. 3

- G. A BOPE operational meeting shall be conducted weekly for each drilling crew.
- H. All of the above described tests shall be recorded in the drilling log.
- Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.
- J. The District Office should be notified, with sufficient lead time, in order to have the BLM representative on location during pressure testing.
  - i. The size and rating of the BOP stack is shown on the attached diagram. Although a rig has not been chosen to drill this well, most of the equipment for this depth of hole in the area use a 3000 psi working pressure blowout preventer.
  - ii. A choke line and a kill line are to be properly installed. The kill line is <u>not</u> to be used as a fill-up line.
  - iii. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.
  - iv. Drill string safety valve(s), to fit <u>all</u> tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.

## 4. Proposed Casing and Cementing Program:

A. The proposed casing and cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations.

BW Federal 29-29-8 #101 825' FNL and 772' FWL NWNW 29-T9S-R96W San Juan County, New Mexico CDX ROCKIES, LLC Lease No. SF-078046 DRILLING PROGRAM Page No. 5

K. The proposed casing program will be as follows:

			<u>ivew</u>
			<u>or</u>
Purpose	Depth	Hole Size	O.D. Weight Grade Type Used
Surface	0-300' TVD	12.250"	9.625" 36.0# J-55 ST&C New
Intermediate	0-3,150' TVD	8.750"	7.000" 23.0# J-55 LT&C New
Production	2,973'-2,988' TVD	96.000"	OPEN HOLE COMPLETION
Production	2,988'-3,150' TVD	8.750"	7.000" 23.0# J-55 LT&C New
Production	2,980'-10,000' TMD	4.750"	OPEN HOLE COMPLETION

Casing design subject to revision based on geologic conditions encountered.

L. The cement program will be as follows:

Depth	Type and Amount
0 - 300' TVD	*225 sxs Premium (Yield 1.17) with 2% CaCl, 1/4#/sk celloflake (or sufficient to circulate to surface).
Depth	Type and Amount
0 - 3,150' TVD	*340 sacks Lite (Yield – 3.85) with 12% gel, 10% salt, 1/#/sk celloflake followed by *290 sacks Premium (Yield – 1.20) with 50/50 Poz, 2% gel, 5% salt, 1/#/sk celloflake (or sufficient to circulate to surface).  *Actual volumes to be calculated from caliper log.
Depth	Type and Amount
2,973'-2,988' TVD	cavity - (Open Hole)

2,980'-10,000' +/- TMD Laterals - (Open Hole)

- M. Anticipated cement tops will be reported as to depth; not the expected number of sacks of cement to be used. The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.
- N. After cementing but before commencing any test, the casing string shall stand cemented until the cement has reached a compressive strength of at least 500 psi at the shoe. WOC time shall be recorded in the driller's log.