

16					¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such undivided working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature <u>Natalie Krueger</u> Date <u>1/27/2011</u> Natalie Krueger Printed Name _____
			LC-063586		
					¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey _____ Signature and Seal of Professional Surveyor: _____ Certificate Number _____

WELLBORE SCHEMATIC AND HISTORY

COMPLETION SCHEMATIC

[illegible]

EC

WELLBORE SCHEMATIC AND HISTORY

COMPLETION SCHEMATIC		1993		LEASE NAME		LUSK WEST DELAWARE UNIT		#8 (aka Lusk Deep Unit A15)		API# 30-025-30494		LEASE #NM LCO 065710A	
		TYPE COMPLETION:		Producing		SINGLE		DUAL					
		TD		7,220'		PBD		6,944 CIBP 7030		1651' FNL & 330' FEL, Lea County, NM			
		COD				DOD				KB		3,601'	
		NO. PROD. WELLS ON LEASE				FLOWING				GL		3,594'	
		ZONE TO BE WORKED ON:								PUMPING			
		CSG. PERFS:								CURRENT COMPLETION ZONE:			
		YATES								Delaware			
		OPEN HOLE:											
		8478-6485 2JSPF 4940-5070, 5700-5760, 7129-36											
		CURRENT TEST (SHOW DATE)											
		GAS											
		GAS											
		SURF.											
		INTER.											
		PROD.											
		TUBG.											
		TUBG.											
		WELL HISTORY											
		01/06/89											
		01/06/89											
		05/02/89											
		05/03/89											
		12/14/93											
		12/15/93											
		12/16/93											
		02/01/97											
		01/09/98											
		01/15/98											
		02/04/00											
		03/12/04											
		01/23/07											
		01/25/07											
		3/18/2008											
		SEE FULL HISTORY FOR MORE DETAILS											
		TOC 2370 by TS											
		Proposed Yates											
		2675-2710											
		35 xs 2865 - 2768 (Capitan Reef)											
		Mud circ between plugs											
		10 xs 3263 - 3142 (CV Tool)											
		Cut & Pull 5-1/2" CSG @ 4592'											
		50 xs 4525 - 4425 (Shale Plug)											
		Mud circ between plugs											
		25 xs 5100 - 4930'											
		perforated 4940-5070 (eqz 12/93)											
		Mud circ between plugs											
		25 xs 5800 - 5600'											
		5700-5760 (eqz 1/96)											
		Mud circ between plugs											
		CIBP @ 6944 w/25 sz cement											
		perforated 6478-6485											
		Mud circ between plugs											
		CIBP @ 7030 (12/15/1993)											
		Perforated 7125-7136											
		PBD = 6944'											
		TD = 7220'											
		13 3/8" 48# H-40											
		@ 828'											
		w/ 700 sz cmt											
		w/ 1400 sz C cmt circ											
		8 5/8" 24# J-55											
		w/ 700 sz cmt											
		DV Tool at 3183'											
		8 5/8" @ 4500'											
		TOC 4690'											
		Delaware Min Canyon											
		Delaware (Brushy Canyon)											
		5 1/2" 15.5# J-55											
		cmt w/ 600 sz cmt											
		TOC @ Surf											
		TOC @ 2370											
		TOC @ 4690											
		TOC @ 7220'											
		TOC @ 828'											
		TOC @ 4500'											
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Cimarex Energy Company of Colorado
NMLC-065710-A: Lusk West Delaware Unit #8
API: 30-025-30494
Lea County, New Mexico

RE: Recompletion – Conditions of Approval

There is to be no surface disturbance beyond the originally approved pad. A closed loop system is to be used. H2S monitoring and protection equipment is to be on site.

4 hours notice is required (575-361-2822) prior to:
Setting plugs

2000 (2M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (2M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.

TA procedure has the following COA:

1. OK
2. OK
3. OK (Perfs)
4. WOC and tag at 5600' or shallower – Otherwise OK (Perfs)
5. WOC and tag at 4900' or shallower -- Otherwise OK (Perfs)
6. OK
7. Plug may be adjusted if cut is outside of 4515'-4475'. Tag at 4425' or shallower – Otherwise OK (Casing shoe – Delaware – Stub)
8. WOC and tag at 3113' or shallower – Otherwise OK (DV Tool)
9. WOC and tag at 2738' or shallower – Otherwise OK (Capitan Reef)
10. OK

Name change denied – Must be sent on separate sundry.

Work to be done and well to be back on production or plan to plug and abandon within 90 days.

Submit subsequent report and completion report with well test once work is completed.

DHW 020111