UNITED STATES

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells	S	
	5.	Lease Number SF-078884
1. Type of Well GAS	6.	If Indian, All. or Tribe Name
2. Name of Operator	7.	Unit Agreement Nam Canyon Largo Unit
BURLINGTON RESOURCES OIL & GAS COMPANY		
3. Address & Phone No. of Operator	ji ta <u>Sta</u> 877 -	Well Name & Number Canyon Largo U#288
PO Box 4289, Farmington, NM 87499 (505) 326-9700	DAW	API Well No.
4. Location of Well, Footage, Sec., T, R, M		30-039-21172
4. Location of well, Footage, Sec., 1, R, M	多。多。	Field and Pool 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 Act:		
	_ Change of Pla _ New Construct	
	_ New Constitute _ Non-Routine F	
Casing Repair	Water Shut of	f
Final Abandonment Altering Casing X_ Other - restimulate		Injection
13. Describe Proposed or Completed Operations		
It is intended to restimulate the Dakota formation according to the attached procedure and we		
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		25
14. I hereby cereify that the foregoing is true and co	orrect.	
Signed Janua State (SD) Title Regulatory	Administrator D	
(This space for Federal or State Office use) APPROVED BY /S/ Duane W. Spencer Title		TLW
APPROVED BY 757 Dutante W. Sponsor Title CONDITION OF APPROVAL, if any:	Date	
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make United States any false, fictitious or fractilent statements or representations as to any main management of the control o		

Canyon Largo Unit #288

Procedure Burlington Resources Basin Dakota

Location: Unit K. Sec. 13, T25N. R6W, Rio Arriba County, NM Lat: 36° 23.8431 min. Long: 107° 25.31526 min.

Comply with all BLM, NMOCD, & BR rules & regulations.

Conduct daily safety meetings.

Place fire and safety equipment in strategic locations.

☐ 1 frac tanks to be spotted and filled with 2% KCI water.

☐ Inspect tubing for potential problems.

Summary

The CLU 288 was drilled and completed in 1976. Initially this well produced from the Upper Dakota (UDK) only. The Encinal Canyon (ENCN) member of the Lower Dakota (LDK) was added in 1993 by perforating, breaking down and balling off with 15% HCL, and fracturing with 35# Xlink gel. This well is currently producing 108 MCFD and 2 BOD, mostly from the ENCN. Core studies have identified a return permeability problem in the ENCN after exposure to water. We also suspect there is damage to both the matrix and the natural fractures caused by gels. There has been some success in other basins using liquid CO₂ to remediate both forms of damage. We intend to test the use of liquid CO₂ as remediation in ENCN with this project.

- 1. Inspect location and test rig anchors. Prepare blowpit. MIRU completion rig.
- NU BOP, flow tee, and stripping head. Test operation of BOP and rams. NU bloole line and 2-7/8" relief line. Lay flow line to pit and stake down.
- 3. Record a pitot test. Sting out of CMTRET. Record a pitot test. Kill UDK w/ 2% KCL as necessary. POOH w/ 224 jts 2-3/8" tubing. Visually inspect tubing for scale buildup. Lay down any joints that have scale.
- 4. TIH w/ 3-7/8" bit, watermellon mill, drill collars as needed, and 2-3/8" tubing. Drill out CMTRET @ 7092' and clean out to PBTD @ 7160'. Spot 250-gal 15% HCL @ 7135'. PUH above acid and let set for 2-hrs. TIH to 7135'. Reverse acid out and blow well dry w/ air. Record a pitot test. TOOH.
- TIH w/ RBP, packer, and 2-3/8" tubing. Set RBP @ 6890'. Release from RBP and set packer above RBP. Pressure test RBP to 2500-psi. Pressure test backside to 2500-psi. If pressure test fails isolate casing leaks and prep for squeeze work. TOOH.
- 6. If a squeeze job is necessary notify BR Regulatory (Peggy Bradfield 326-9727) and the appropriate Regulatory Agency prior to pumping any cement job. Approval is required before the job can be pumped. If verbal approval is obtained, document approval in DIMS/WIMS. Contact the Production Engineer for squeeze procedure.
- 7. TIH w/ 4-1/2" packer and 2-3/8" tubing. Set packer @ 7090' under 30000-psi of compression. Pump 40-bbl of 2% KCL down backside with rig pump.
- 8. RU Halliburton. Install 10,000-psi frac valve. Hold safety meeting. Pressure test surface lines to 6000-psi. Stimulate the ENCN w/ 60-tons CO_2 as follows:

Equipment Needed: V12 Pumping unit (1000 HP)

CO2 Booster

Acid Monitoring Van

60 Tons CO₂ (3 Transports)

Stimulation Volume: 55 Tons

Pump Cool Down Volume: 5 Tons Injection Rate: 4 BPM

Anticipated Wellhead Treating Pressure: 4460-psi
Max. Treating Pressure: 5000-psi

Monitor backside pressure for breakthrough during job. RD Halliburton.

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- 9. Shut down and allow CO_2 to soak for 2 days.
- 10. Equalize and release packer. Flow well back for 2 days. Monitor gas, oil, and water returns. Take pitot gauges and test for CO₂ concentrations twice per day. TOOH. Attempt to minimize fluid exposure to ENCN.
 - 11. Do not kill well to land tubing. Strip tubing into hole. PU and TIH w/ a pump out plug, one jnt. 2-3/8" tubing, SN, and remaining 2-3/8" tubing. Broach while RIH. Land at 7125'.
 - 12. ND BOP. NU WH. Test seals on tubing head. Pump out tubing plug. Flow well up tubing to ensure plug pumped

13. RD. Release rig to next location.

Recommended:

Approved: Smild 721 al 9-16-98
Team Leader

Approved: Bour 98.98
Drilling Superintendent

Recommended Vendors:

CO₂ Stimulation Downhole Tools

Halliburton

324-3500

Baker

325-0216

Production Engineering

Scott Dobson

326-9813-Work

326-8036-Pager

564-3244-Home

Reservoir Engineering

Craig McCracken

326-9706-Work

327-7172-Home

Canyon Largo Unit #288 Unit K, Sec. 13, T25N, R6W Rio Arriba County MM

