

## NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103  
(Rev 3-55)

## MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

Name of Company <b>Union Oil Company of California</b>		Address <b>619 West Texas Avenue, Midland, Texas</b>				
Lease <b>State "A"</b>	Well No. <b>2-28</b>	Unit Letter <b>I</b>	Section <b>28</b>	Township <b>15-S</b>	Range <b>32-E</b>	
Date Work Performed <b>See detailed account</b>	Pool <b>North Anderson Ranch Wolfcamp</b>		County <b>Lea</b>			

THIS IS A REPORT OF: (Check appropriate block)

- ☐ Beginning Drilling Operations    ☐ Casing Test and Cement Job    ☒ Other (Explain):  
☐ Plugging    ☐ Remedial Work    **End of month progress report.**

Detailed account of work done, nature and quantity of materials used, and results obtained.

**Total depth 10,069'. Moving in completion unit as of April 1, 1963.****Ran & cemented 4-1/2" casing during March as previously reported on Form C-103.****Well blew out on March 24, 1963 - capped at 3:00 p.m. March 25, 1963.**

Witnessed by <b>P. H. Barham</b>	Position <b>Petr. Engr.</b>	Company <b>Union Oil Company of California</b>
-------------------------------------	--------------------------------	---

## FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

## ORIGINAL WELL DATA

D F Elev.	T D	P B T D	Producing Interval	Completion Date
Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth	
Perforated Interval(s)				
Open Hole Interval			Producing Formation(s)	

## RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover						
After Workover						

OIL CONSERVATION COMMISSION

I hereby certify that the information given above is true and complete to the best of my knowledge.

Approved by

Name

Title

Position

Date

Company

**C. W. Dyer**  
**Production Clerk**  
**Union Oil Company of California**

1. Definition: A function  $f: D \rightarrow \mathbb{R}$  is called convex if for all  $x, y \in D$  and  $\lambda \in [0, 1]$  it holds that
 
$$f(\lambda x + (1-\lambda)y) \leq \lambda f(x) + (1-\lambda)f(y)$$

• Geometric interpretation:

- The line segment connecting  $(x, f(x))$  and  $(y, f(y))$  lies above the graph of  $f$ .
- The function  $f$  lies below the chord connecting  $(x, f(x))$  and  $(y, f(y))$ .
- The function  $f$  is "bowl-shaped" (concave up).

2. Properties: If  $f: D \rightarrow \mathbb{R}$  is convex, then the following properties hold:

- Local minimum is global minimum: If  $f$  has a local minimum at  $x_0 \in D$ , then  $x_0$  is a global minimum of  $f$  on  $D$ .
- Subgradients: A vector  $g \in \mathbb{R}^n$  is called a subgradient of  $f$  at  $x_0 \in D$  if for all  $x \in D$  it holds that
 
$$f(x) \geq f(x_0) + g^T(x - x_0)$$
- Subdifferential: The set of all subgradients of  $f$  at  $x_0$  is called the subdifferential of  $f$  at  $x_0$ , denoted by  $\partial f(x_0)$ .