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NEW MEXICO OIL CONSERVATION COMMISSION
HOBBS OFFICE O.C.C.

MAR 3 11 14 AM '67

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease	
STATE <input checked="" type="checkbox"/>	FEE <input type="checkbox"/>
5. State Oil & Gas Lease No.	
K-3259	

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. Farm or Lease Name New Mexico "H" State	
2. Name of Operator Sun Oil Company		9. Well No. 9	
3. Address of Operator P. O. Box 2880, Dallas, Texas 75221		10. Field and Pool, or Wildcat Und. Cato - San Andres	
4. Location of Well UNIT LETTER L LOCATED 660 FEET FROM THE West LINE AND 1980 FEET FROM THE South LINE OF SEC. 16 TWP. 8S RGE. 30E NMPM		12. County Chaves	
19. Proposed Depth 3600'		19A. Formation Milnesand	
20. Rotary or C.T. Rotary		21. Elevations (Show whether DF, RT, etc.) 4114' Gr.	
21A. Kind & Status Plug. Bond \$10,000 Blanket Bond		21B. Drilling Contractor Unknown	
22. Approx. Date Work will start When Approved			

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4"	8-5/8"	20#	450'	300	Circ. to surface
7-7/8"	4-1/2"	9.5#	3600'	300	1470'

From 450' to Total Depth, the hole will be drilled using Series 600 (2000 psi test) blowout prevention equipment.

A Series 600 wellhead will be used if well is successfully completed.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

F. A. Lawrence

Signed *F. A. Lawrence* Title **Asst. Division Supt.** Date **March 2, 1967**

(This space for State Use)

APPROVED BY *[Signature]* TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

7.1.1

Let $f: \mathbb{R}^n \rightarrow \mathbb{R}$ be a function. We say that f is *convex* if for all $x, y \in \mathbb{R}^n$ and $\lambda \in [0, 1]$ we have

$$f(\lambda x + (1-\lambda)y) \leq \lambda f(x) + (1-\lambda)f(y).$$

Let $f: \mathbb{R}^n \rightarrow \mathbb{R}$ be a function. We say that f is *concave* if for all $x, y \in \mathbb{R}^n$ and $\lambda \in [0, 1]$ we have

$$f(\lambda x + (1-\lambda)y) \geq \lambda f(x) + (1-\lambda)f(y).$$

Let $f: \mathbb{R}^n \rightarrow \mathbb{R}$ be a function. We say that f is *affine* if for all $x, y \in \mathbb{R}^n$ and $\lambda \in [0, 1]$ we have