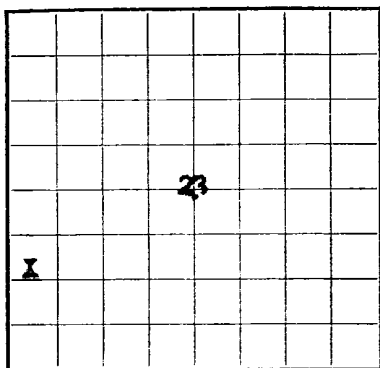
U. S. LAND OFFICE **Hicarilla Apache**
SERIAL NUMBER **Contract #241**
LEASE OR PERMIT TO PROSPECT **Boulder Lease**

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **Socony Mobil Oil Company, Inc.** Address **P. O. Box 3371, Durango, Colorado**
Lessor or Tract **Boulder** Field **Boulder Mancos** State **New Mexico**
Well No. **12-23** Sec. **23** T. **28N** R. **1W** Meridian **N.M.P.M.** County **Rio Arriba**
Location **1750 ft. N. of N. Line and 560 ft. E. of W. Line of Section 23** Elevation **7288**
(Elevation above relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

Date **July 20, 1962**Title **Dist. Prod. Supt.**

The summary on this page is for the condition of the well at above date.

Commenced drilling **April 30**, 19 **62** Finished drilling **May 22**, 19 **62**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **4169** to **4499** No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
9-5/8"	33	8	11-40	123	Plug	Surface			Surface
7"	28	8	11-40	344	Plug	Intermediate			Intermediate
4 1/2"	9.9	8	11-40	1172	Plug	Liner			Liner

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8"	125	45	Pump & Plug		
7"	3471	120	Pump & Plug		
4 1/2"	4529	140	Pump & Plug		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing **June 13**, 19 **62**The production for the first 24 hours was **73.4** barrels of fluid of which **97** % was oil; _____ % emulsion; **3** % water; and _____ % sediment. Gravity, °Bé. _____

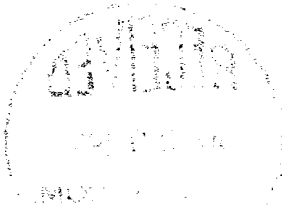
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Drill r

Driller



THE UNIVERSITY OF CHICAGO

the 1990s, the number of people in the United States who are 65 years of age or older has increased by 25% (U.S. Census Bureau, 2000). The number of people aged 65 and older is projected to increase to 35% of the total population by the year 2020 (U.S. Census Bureau, 2000). The number of people aged 65 and older is projected to increase to 35% of the total population by the year 2020 (U.S. Census Bureau, 2000). The number of people aged 65 and older is projected to increase to 35% of the total population by the year 2020 (U.S. Census Bureau, 2000).

[illegible]
$$\begin{aligned} & \left(\frac{1}{\sqrt{2}} \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} \right)^{\otimes n} = \frac{1}{\sqrt{2}^n} \begin{pmatrix} 1 & 0 & \dots & 0 \\ 0 & 1 & \dots & 0 \\ \vdots & \vdots & \ddots & \vdots \\ 0 & 0 & \dots & 1 \end{pmatrix} = \frac{1}{\sqrt{2}^n} I_{2^n} \\ & \left(\frac{1}{\sqrt{2}} \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} \right)^{\otimes n} = \frac{1}{\sqrt{2}^n} \begin{pmatrix} 1 & 0 & \dots & 0 \\ 0 & 1 & \dots & 0 \\ \vdots & \vdots & \ddots & \vdots \\ 0 & 0 & \dots & 1 \end{pmatrix} = \frac{1}{\sqrt{2}^n} I_{2^n} \end{aligned}$$

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

HISTORY OF OIL OR GAS WELL