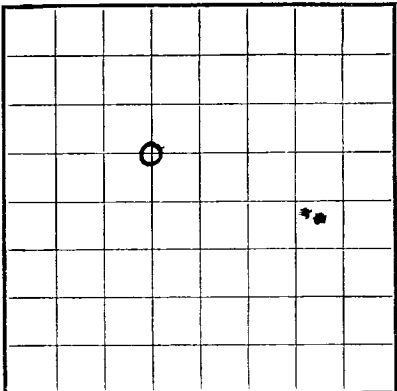


U. S. LAND OFFICE Las Cruces
SERIAL NUMBER LC 062407
LEASE OR PERMIT TO PROSPECT _____



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Western Development Company Address P. O. Box 427, Artesia, N. M.
Lessor or Tract Leonard Federal of Delaware Field Grayburg Jackson N. M.
Well No. 3 Sec. 33 T. 17S R. 29E Meridian NMPM County Eddy
Location 1980 ft. xxx of N Line and 1980 ft. xxx of W Line of Sec. 33 Elevation 3548
(Derrick floor 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.

Date November 10, 1958 Signed W B Mosey Title Vice President

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

Commenced drilling 9-23-, 19 58 Finished drilling 10-27, 19 58

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2654 to 2670 No. 4, from 2944 to 2949
No. 2, from 2708 to 2713 No. 5, from 2951 to 2956
No. 3, from 2715 to 2722 No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from No surface water 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—	
<u>8 5/8</u>	<u>24</u>	<u>8 Rd</u>	<u>Smls</u>	<u>357</u>	<u>Texas</u>				<u>Surface</u>
<u>5 1/2</u>	<u>11</u>	<u>8RD</u>	<u>Smls</u>	<u>2989</u>	<u>Packer shoe</u>		<u>2654</u>	<u>2670</u>	
							<u>2708</u>	<u>2713</u>	
							<u>2715</u>	<u>2722</u>	<u>Production</u>
							<u>2944</u>	<u>2949</u>	
							<u>2951</u>	<u>2956</u>	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8 5/8</u>	<u>357</u>	<u>75</u>	<u>Pump & Plug</u>	<u>None</u>	<u>None</u>
<u>5 1/2</u>	<u>2989</u>	<u>125</u>	<u>" "</u>	<u>None</u>	<u>None</u>

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SAND * OIL FRAC SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
	<u>250 gals. mud acid,</u>	<u>31,000 gals. crude oil</u>				
	<u>and 30,000# sand.</u>					

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from 0 feet to 3052 feet, and from _____ feet to _____ feet

DATES

11-10, 19 58 Put to producing 11-4, 19 58

The production for the first 24 hours was 250 barrels of fluid of which 100% was oil; 0% emulsion; 0% water; and 0% sediment. Gravity, °Bé. 36° API

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES
Howell Drilling Co., xxxx Contractor Roy Burhart, Driller
Paul Hegwer, Driller Roy Hill, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>185</u>	<u>185</u>	<u>Anhy.</u>
<u>185</u>	<u>300</u>	<u>115</u>	<u>Anhy. and shale</u>
<u>300</u>	<u>705</u>	<u>405</u>	<u>Salt</u>
<u>705</u>	<u>1908</u>	<u>1203</u>	<u>Anhy. and red shale</u>
<u>1908</u>	<u>1920</u>	<u>12</u>	<u>Red Sand</u>
<u>1920</u>	<u>2330</u>	<u>410</u>	<u>Anhy.</u>
<u>2330</u>	<u>3052</u>	<u>722</u>	<u>Lime</u>
			TOPS
		<u>Top Salt</u>	<u>300'</u>
		<u>Base Salt</u>	<u>705'</u>
		<u>Top Queen</u>	<u>1901'</u>
		<u>Top San Andres</u>	<u>2735'</u>

HISTORY OF OIL OR GAS WELL

16-43084-2 U. S. GOVERNMENT PRINTING OFFICE

FORMATION

TOTAL FEET

—OL

FROM—