Form 9-330

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

Cato F. 3

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 031844
LEASE OR PERMIT TO PROSPECT Max Friess

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
OCT 16 1961
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company FREN OIL COMPANY Address 208 Hills Bldg.-El Paso, Texas
Lessor or Tract Max Friess Field Cedar Lake Abo State New Mexico
Well No. 16 Sec. 19 T. 17S. R. 31E. Meridian N.M.P.M. County Eddy
Location 990 ft. N. of South Line and 355 ft. W. of East Line of Section 19 Elevation 3611 ft. (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.

Signed Max Ensinger

Date October 14, 1961 Title Member of Partnership

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

Commenced drilling August 24, 1961 Finished drilling September 14, 1961

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 1833' to 1840' -G
No. 2, from 1935' to 1945' O.&G.
No. 3, from 2920' to 2922' O.& G.
No. 4, from 3059' to 3062' O.& G.
No. 5, from 3073' to 3084' O.& G.
No. 6, from 3220' to 3225' O.& G.

IMPORTANT WATER SANDS 6950' to 7031' O. & G.

No. 1, from 380' to 385'
No. 2, from ... to ...
No. 3, from no water Abo
No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
8-5/8"	24#	8	Ideal	1503'	Ideal Flow Collar				Surface string
5½"	14#	8	Ideal	7048'	Ideal Flow Collar				Oil string

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	1503'	600 Pozmix Cement (50/50)			27 sacks Gel
		# 21 s. Halliburton-Gel	Halliburton		3 " Lime
		3 s. Celcium Chloride			
5½"	7048'	950 s. Pozmix Cement (50/50); 50 sacks Cement -			17 sacks Gel

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
		X				
Used 250 Gals. of Dowell acid on perforated zones:					6998 to 6983' & 6976 to 6972'	
		(2 shots per foot)				

TOOLS USED

Rotary tools were used from 0 to 7067' 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 September 16-'61 at 7:00 A.M.

The production for the first 24 hours was 172 barrels of fluid of which 100% was oil; ...% emulsion; ...% water; and 2/10% sediment. Gravity, °Bé. 41

If gas well, cu. ft. per 24 hours 274,367 Gallons gasoline per 1,000 cu. ft. of gas 2.70

Casinghead

Rock pressure, lbs. per sq. in. 1200 shut-in tubing pressure.

EMPLOYEES

D. L. Kenagy, Driller
Chuck Jones, Driller
A. M. Parsley, Driller
..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
	1517	drill with gas on 8 5/8" casing	
1517	1895	378	Anhydrite
1895	2533	638	Lime & Anhydrite
2533	2905	372	Lime, Anhydrite & sandy lime
2905	3030	125	Lime - sandy & white lime
3030	3245	215	Lime
3245	3475	230	Lime
3475	3716	241	Lime
3716	3800	84	Lime * Toted Drift Record - 1¼ -
3800	3974	174	Lime - drilling with gas -
3974	4200	226	Dolomite
4200	4417	217	Dolomite
4417	4645	228	Dolomite
4645	4723	78	Dolomite
4723	4859	136	Dolomite - Toted Drift Record - 3/4 -
4859	5024	165	Dolomite
5024	5086	62	Dolomite - at 5070' drilling with water -
5086	5225	139	Dolomite
5225	5312	87	Dolomite
5312	5479	167	Dolomite & gray sand
5479	5514	35	Dolomite
5514	5592	78	Dolomite - Toted Drift Record - 1½ -
5592	5696	104	Dolomite
5696	5760	104	Dolomite - Toted Drift Record - 1½ -
5760	5903	143	Dolomite
5903	6059	156	Dolomite

AT THE END OF COMPLETE DRILLER'S LOG GIVE BASIC TOPS, STATE WHETHER RIGHT EL OR GR. ELEV.

16—48094-4

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
			- 5092' Totco Drift Record - 1 -
			- 6226' Totco Drift Report - 3-3/4 -
			& chart
			& chart - Totco Drift Record - 3 -
			& chart
			sand & shale-Totco Drift Record - 2 -
			- Shale
			- 6859' - Totco Drift Record - 2½ -
			- 7013' - Totco Drift Record - 2 -
	7020 T.D.		
			from Sampler.

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION

TOOLS USED

Rotary tools were used from 0 feet to 7020 feet, and from feet to feet

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

DATES

Put to producing 19

The production for the first 24 hours was 515 barrels of fluid of which 100% was oil; 0% emulsion; 0% water; and 0% sediment.

Gravity, °Bé. 41

Gallons gasoline per 1,000 cu. ft. of gas 2.0

If gas well, cu. ft. per 24 hours .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

..... Driller ..... Driller

..... Driller ..... Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION

CASING RECORD

SIZE CASING	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT AND FILLED FROM	PERFORATED FROM—	PERFORATED TO—	PURPOSE

No. 1, from ..... to ..... No. 4, from ..... to .....

No. 2, from ..... to ..... No. 5, from ..... to .....

No. 3, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from ..... to ..... No. 4, from ..... to .....

No. 2, from ..... to ..... No. 5, from ..... to .....

No. 3, from ..... to ..... No. 6, from ..... to .....

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from ..... to ..... No. 4, from ..... to .....

No. 2, from ..... to ..... No. 5, from ..... to .....

No. 3, from ..... to .....

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Fill in all details and state in detail the dates of redrilling, together with the reasons for the work and the results. Dates were any casing was left 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 baling.

16—43694-2 U. S. GOVERNMENT PRINTING OFFICE

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 ..... Title .....

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

Commenced drilling ..... 19..... Finished drilling ..... 19.....

LOG OF OIL OR GAS WELL

Company ..... Address .....

Lessor or Tract ..... Field ..... State .....

Well No. ..... Sec. ..... T. ..... R. ..... Meridian ..... County .....

Location ..... ft. {N. / S.} of ..... Line and ..... ft. {E. / W.} of ..... Line of ..... Elevation ..... (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.

Signed

Date ..... Title .....

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

Commenced drilling ..... 19..... Finished drilling ..... 19.....

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from ..... to ..... No. 4, from ..... to .....

No. 2, from ..... to ..... No. 5, from ..... to .....

No. 3, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from ..... to ..... No. 4, from ..... to .....

No. 2, from ..... to ..... No. 5, from ..... to .....

No. 3, from ..... to ..... No. 6, from ..... to .....

CASING RECORD

No. 1, from ..... to ..... No. 4, from ..... to .....

No. 2, from ..... to ..... No. 5, from ..... to .....

No. 3, from ..... to .....

MUDDING AND CEMENTING RECORD

SIZE CASING	WHERE SET	NUMBER SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED

PLUGS AND ADAPTERS

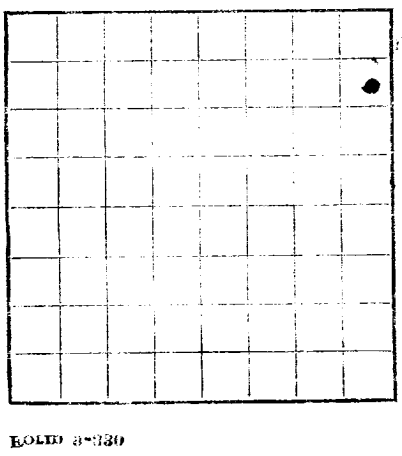
Heaving plug—Material ..... Length ..... Depth set .....

Adapters—Material ..... Size .....

SHOOTING RECORD

SIZE	SHELL USED	EXPLOSIVE USED	QUANTITY	DATE	DEPTH SHOT	DEPTH CLEANED OUT

LOCATE WELL CORRECTLY



FORM 9-330

RECEIVED
OCT 18 1951
GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

UNITED STATES

LEASE OR PERMIT TO PROSPECT .....

SERIAL NUMBER .....

U. S. LAND OFFICE .....

16—43694-2 U. S. GOVERNMENT PRINTING OFFICE

FOLD MARK