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

Form 9-330

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 031341
LEASE OR PERMIT TO PROSPECT

Whipstock Hole

RECEIVED
JUN 4 1962
GEOLOGICAL SURVEY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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O. C. C.
ARTESIA, OFFICE

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company FREN OIL COMPANY Address 106-A Texas St., El Paso, Texas

Lessor or Tract Max Friess Field Cedra Lake Abo State New Mexico

Well No. 18 Sec. 19 T. 17S. R. 31E. Meridian N.M.P.M. County Eddy

Location 1650 ft. [N.] of South Line and 3530 ft. [W.] of east Line of Section 19 - Elevation 3636 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 Lonzinger

Date May 31, 1962 Title Member of Partnership

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

Commenced drilling April 17, 1962 Finished drilling May 9, 1962

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 6978 ft. to 6990 ft. GAS
No. 2, from 6998 ft. to 7004 ft. GAS
No. 3, from 7011 ft. to 7022 ft. GAS & OIL
No. 4, from 7050 ft. to 7060 ft. OIL
No. 5, from 7062 ft. to 7066 ft. OIL
No. 6, from 7070 ft. to 7074 ft. OIL
7076 ft. to 7086 ft. OIL

IMPORTANT WATER SANDS

No. 1, from ... to ...
No. 2, from ... to ...
No. 3, from 7090 ft. to 7098 ft. OIL
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
[illegible]									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
[illegible]	7120'	1200 sax	Halliburton	- - -	None

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 5305 feet to 7136 feet, and from ... feet to ... feet
Cable tools were used from ... feet to ... feet, and from ... feet to ... feet

DATES

May 9, 1962 Put to producing May 11, 1962

The production for the first 24 hours was 192 barrels of fluid of which 100 % was oil; ... % emulsion; no % water; and 2/10 % sediment. Gravity, °Bé. 43

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

(Rock pressure, lbs. per sq. in.) 750# flow pressure on 10/64" choke.

EMPLOYEES

H. E. Graham, Driller E. J. Terrell, Driller
P. J. Carro, Driller ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
5305	5550	165	Sand & Dolomite
5550	6612	1062	Dolomite with sand stringers
6612	6948	336	Dolomite with shale stringers
6948	7135	187	Reef dolomite T.D.

AT THE END OF COMPLETE DRILLER'S ADD GEOLOGIC TOPS. STATE WHETHER FROM EL OR SAMPLES.

FORMATION TOPS:

Queen . . . . . 2304'
San Andres . . . . 3104'
Grietta . . . . . 4638'
Tubbs . . . . . 5308'
Abo . . . . . 6612'
Abo Reef . . . . . 6948'

FROM— TO— TOTAL FEET FORMATION

(OVER)

16—43094-4

FOLD

MARK

Form 9-330

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

U. S. LAND OFFICE [illegible]

SERIAL NUMBER [illegible]

LEASE OR PERMIT TO PROSPECT [illegible]

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JUN 4 1962

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
JUN 4 1962
O. C. C.
ARTESIA, OFFICE

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company [illegible] Address [illegible] St., El Paso, Texas

Lessor or Tract [illegible] Field [illegible] State New Mexico

Well No. 12 Sec. [illegible] T. [illegible] R. [illegible] Meridian N.M.P.M. County Eddy

Location [illegible] ft. N/S of [illegible] Line and [illegible] ft. E/W of [illegible] Line of [illegible] Elevation [illegible] 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 [signature]

Date [illegible] Title [illegible]

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

Commenced drilling [illegible], 1962 Finished drilling [illegible], 19 62

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from [illegible] to [illegible] No. 4, from [illegible] to [illegible]

No. 2, from [illegible] to [illegible] No. 5, from [illegible] to [illegible]

No. 3, from [illegible] to [illegible] No. 6, from [illegible] to [illegible]

IMPORTANT WATER SANDS

No. 1, from to No. 3, from [illegible] to [illegible]

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 From—	Perforated To—	Purpose

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

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
[illegible]	[illegible]	[illegible]	[illegible]		None

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 [illegible] feet to T.D. feet, and from feet to feet

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

DATES

[illegible], 19 Put to producing [illegible], 19 62

The production for the first 24 hours was [illegible] barrels of fluid of which [illegible] % was oil; [illegible] % emulsion; [illegible] % water; and [illegible] % sediment. Gravity, °Bé. [illegible]

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

Rock pressure, lbs. per sq. in. [illegible] Flow pressure on 10/64" choke.

EMPLOYEES

[illegible], Driller [illegible], Driller

[illegible], Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
			[illegible]
[illegible]	[illegible]	[illegible]	Sand & dolomite
[illegible]	[illegible]	[illegible]	Dolomite with [illegible]
[illegible]	[illegible]	[illegible]	Dolomite with shale stringers
[illegible]	[illegible]	[illegible]	Reef dolomite T.D.

FORMATION TOPS

Queen	[illegible]
San Andres	[illegible]
Glorieta	[illegible]
Tubb	[illegible]
Abo	[illegible]
Abo Reef	[illegible]

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

(OVER) 16—43094-4

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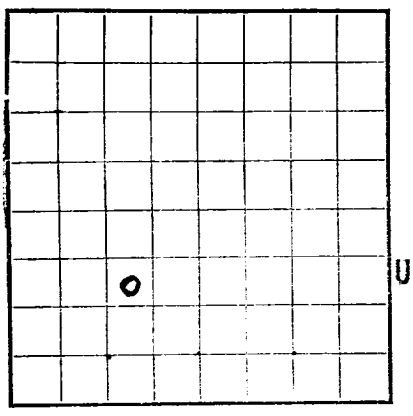
Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

Form 9-330

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 031816
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company PAN AM OIL COMPANY Address 106½ Texas St., El Paso, Texas
Lessor or Tract Max Prieve Field Cedre Lake Abo State New Mexico
Well No. 18 Sec. 19 T. 17S. R. 31E. Meridian N.M.P.M. County Eddy
Location 1650 ft. [N.] of South Line and 3530 ft. [W.] of east Line of Section 19 Elevation 3636'
(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 June 1, 1962 Title Member of Partnership

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

Commenced drilling January 2, 19 62 Finished drilling January 24, 19 62

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from ABO : 6910' to 6915' No. 4, from 7080' to 7150'
No. 2, from 6980' to 7000' No. 5, from ..... to .....
No. 3, from 7040' to 7060' 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 From—	Perforated To—	Purpose

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	1394'	650	Halliburton		None

MARK

FOLD

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 0 feet to 7150 feet, and from ..... feet to ..... feet
Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

DATES

....., 19..... Put to producing ....., 19.....

The production for the first 24 hours was ..... barrels of fluid of which .....% was oil; .....% emulsion; .....% 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

....., Driller ....., Driller
D. L. Kenney
....., Driller A. M. Parsley ....., Driller
J. E. Heltzel

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
			AT THE END OF COMPLETE DRILLER'S LOG, ADD GEOLOGIC TOPS. STATE WHETHER FROM E.L. OR SAMPLES.
0	40	40	Sand & Caliche
40	476	436	Red Beds
476	1272	796	Anhydrite & Salt
1272	2304	32	" with sandstringers
2304	2356	52	Sand
2356	3104	748	Anhydrite ,Dolomite & sand stringers
3104	3245	141	White Dolomite & sand stringers
3245	3300	55	Dolomite and sand
3300	3638	338	Dolomite
3638	3670	32	Sand
3670	5310	670	Dolomite (5310-5340'- 90% sand)
5310	5760	420	Dolomite and sand stringers
5760	5890	130	" " " "
5890	6000	110	Dolomite
6000	6360	360	"
6360	6620	260	Dolomite & Chert
6620	6910	290	Dolomite & shale stringers
6910	7150	240	Dolomite - Reef -
	7150' T.D.		took five drill stem tests as per enclosed records. -Deviation test showed bottom of hole 149 ft. north and 17½° east of location . (Schlumberger). Well shut in for later completio

(OVER)

16—48094-4

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION

EMPLOYEES

Driller ..... Driller

Driller ..... Driller

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

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

Time production for the first 24 hours was ..... barrels of fluid of which ..... % was oil; ..... % emulsion; ..... % water; and ..... % sediment. Gravity, °Bé. .....

..... lb. Put to producing ..... lb.

DATES

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

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

TOOLS USED

Size	Sheth used	Threads used	Quantity	Date	Depth shot	Depth cleaned out

SHOOTING RECORD

Adapters—Material ..... Size .....

Shooting byis—Material ..... Length ..... Depth set .....

PLUGS AND ADAPTERS

Size	Kind	Material	Length	Depth set

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used

HISTORY OF OIL OR GAS WELL

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

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 pulled, cracked, or left in the well, give size and location. If the well was shot or 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.

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used	Depth cleaned out	Perforated From—	Perforated To—	Purpose

CASING RECORD

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

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

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

(Denote gas by G)

OIL OR GAS SANDS OR ZONES

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

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

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

Signed .....

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.

Location ..... ft. {N. / S.} of ..... line and ..... ft. {E. / W.} of ..... line of ..... Elevation ..... (Derrick floor relative to sea level)

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

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

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

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Lease or Permit to Prospect .....

Serial Number .....

U. S. Land Office .....

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

FORM 9-330