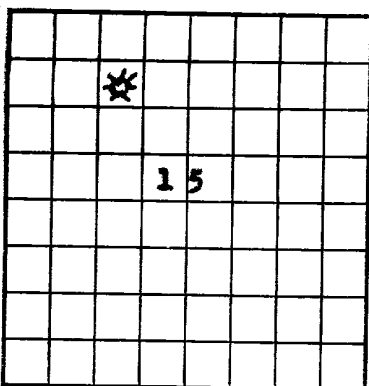




LOCATE WELL CORRECTLY

U. S. LAND OFFICE **SANTA FE**SERIAL NUMBER **078972-1**

LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**Bolack #12**
C. S. NE NW**RECEIVED****APR 17 1952**U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.**LOG OF OIL OR GAS WELL**Company **The Frontier Refining Company** Address **410 Boston Bldg., Denver, Colorado**Lessor or Tract **Bolack-Government** Field **S. Kuts Canyon (Ext)** State **New Mexico**Well No. **12** Sec. **15** T. **27N** R. **11W** Meridian **N.M.P.M.** County **San Juan**Location **990 ft. N. of N. line and 1650 ft. E. of W. line of Section 15** Elevation **6303'**
(Denote 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 **April 10, 1952**Signed **Demetrius S. Calbraith**
Title **Demetrius S. Calbraith, Geologist**

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

Commenced drilling **1/27**, 19 **52** Finished drilling **1/30**, 19 **52****OIL OR GAS SANDS OR ZONES**

(Denote gas by G).

No. 1, from **2023** to **2085 G** 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 steel	Cut and pulled from	Perforated	From	To	Purpose
8-5/8"	21.7	8	2001							
5-1/2"	19.7	8	2001							

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	109'KB	90 sacks	plug	-	-
5-1/2"	2028'KB	75 sacks	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
3 1/2 x 20	4 1/2	4 min nitro	85 lbs.	2/21/52	2041-251KB	2085'KB

TOOLS USEDRotary tools were used from _____ feet to **2023'** feet, and from _____ feet to _____ feetCable tools were used from **2028'** feet to **2085'** feet, and from _____ feet to _____ feet**DATES**Completed **2/26**, 19 **52** Put to producing **Shot in**, 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 **824,000** Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. **460'****EMPLOYEES****Camden Drilling Company**, Driller _____, Driller**English Drilling Company**, Driller _____, Driller**FORMATION RECORD**

FROM—	TO—	TOTAL FEET	FORMATION
0	1860	1860	Sand and shale. Torrehon-Puerco at surface.
1860	2023	163	Sand and shale with coal streaks. Top of Pictured Cliffs at 2023'KB (Sample)
2023	2085	62	Sand with thin shale breaks.
	2085'KB	TD	(No electric log run)

(OVER)

FORMATION RECORD—CONTINUED

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

FARMINGTON, N. M.
U. S. GEOLOGICAL SURVEY

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

UNITED STATES

PLEASE OR PERMIT TO PROSECT

Serial Number

U. S. LAND OFFICE

Approval expires 11-30-49.
Budget Bureau No. 42-R352.1.

[illegible]

12/11/52
1/28/52
1/29/52
1/30/52
2/1/52
2/15/52
2/16/52
2/17/52
2/18/52
Natural Range of 200' GAS SANDS OR ZONES
12/11/52
1/28/52
1/29/52
1/30/52
2/1/52
2/15/52
2/16/52
2/17/52
2/18/52
Natural Range of 200' GAS SANDS OR ZONES
12/11/52
1/28/52
1/29/52
1/30/52
2/1/52
2/15/52
2/16/52
2/17/52
2/18/52
Natural Range of 200' GAS SANDS OR ZONES

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 added or removed, give date, size, position, and diameter. If the well has been dynamited, give date, size, position, and diameter. If water or mud was put in to test for water, state kind of material used, position, and depth so determined or estimated.

MUDGING AND CEMENTING RECORD

[illegible]

SHOOTING RECORD

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

[illegible]

DATE		FROM		TO	
1901	12	1901	12	1901	12
1901	12	1901	12	1901	12

DATE

Rock pressure, lbs. per sq. in.	
If gas well, cu. ft. per 24 hours	
Emulsion; % water and % sediment	
Gravity, ° Bé.	
Gallons gasoline per 1,000 cu. ft. of gas	
Barrels of fluid of which % was oil;	
Put to producing	

EMPLOYEES

Driller	Driller
Driller	Driller

FORMATION RECORD

[illegible]

FORMATION RECORD—Continued

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office **SANTA FE**
Lease No. **57075-1**
Unit **NW 1/4 Sec. 25 in the**
Reorganized Twp. 36N

SUNDRY NOTICES AND REPORTS ON WELLS

EB 1 8 1952

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Subunit #12
C 25 25 25

February 15, 1952

Well No. **32** is located **975** ft. from **[N]** line and **1490** ft. from **[E]** line of sec. **25**
NW 1/4 **25** **27N** **23W** **New Mexico**
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
S. Katz Canyon (Gr.) **San Juan** **New Mexico**
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is _____ ft. **Unknown**

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

1. Spudded 1/27/52.
2. Ran 3 joints (200') of 2-1/2" OD, 24.25/lb., Grade B Line Pipe and set at 207'ES with 70 sacks of regular cement, circulated to the surface.
3. Tested casing with 300# pressure held for 30 minutes and showed no drop in pressure.
4. After drilling plug, tested for 30 minutes with 300#. The water level remained stationary.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **THE FRONTIER DRILLING COMPANY**

Address **410 MOORE BUILDING**

DENVER, COLORADO

By **Herman S. Callaway**

Title **Herman S. Callaway, Geologist**

1. The first of the two main objectives of the Fund is to promote the growth of international trade and commerce. This is done by providing technical assistance to member countries in the form of loans, grants, and technical advice. The second objective is to promote the stability of the international monetary system. This is done by providing technical assistance to member countries in the form of loans, grants, and technical advice.

2. The Fund has a number of different types of loans and grants. These include: (a) International Development Association (IDA) loans, which are provided to member countries on a concessional basis; (b) International Monetary Fund (IMF) loans, which are provided to member countries on a non-concessional basis; (c) Technical Assistance Grants, which are provided to member countries to help them develop their technical capacity; and (d) Technical Assistance Loans, which are provided to member countries to help them develop their technical capacity.

3. The Fund also provides technical assistance to member countries in the form of loans, grants, and technical advice. This is done by providing technical assistance to member countries in the form of loans, grants, and technical advice.

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