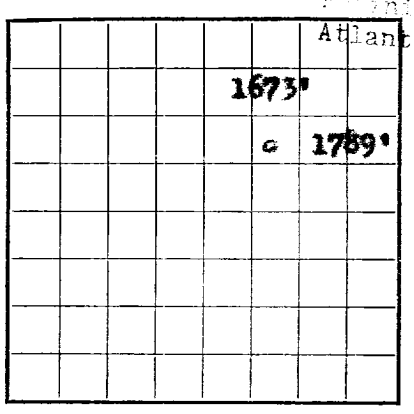
Form 9-330

"Effective May 5, 1966, The Atlantic Refining Company changed its name to Atlantic Richfield Company"

Form approved.
Budget Bureau No. 42-R355.4.

U. S. LAND OFFICE .....
SERIAL NUMBER .....
LEASE OR PERMIT TO PROSPECT 14-20-600-3531



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
OCT 15 1964
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

WATER INJECTION

LOG OF ~~OIL OR GAS~~ WELL

Company The Atlantic Refining Co. Address Box 2197, Farmington N.M.

Lessor or Tract Many Rocks Project Field Many Rocks Gallup State New Mexico

Well No. 21 Sec. 17 T. 31N R. 16W Meridian NMPM County San Juan

Location 1673 ft. {N.} of N Line and 1789 ft. {E.} of E Line of Sec. 17 Elevation 5589'
(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 B J Dastaul

Date October 13, 1964 Title Drilling Production Supv.

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

Commenced drilling 8-17-64, 19.... Finished drilling 8-22-64, 19....

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 1486 to 1491 No. 4, from ..... to .....

No. 2, from 1609 to 1614 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 From—	Perforated To—	Purpose
8 5/8	24	8 R	CFI	97	Guide				Surface
4 1/2	9.5	8 R	CFI	1670	Float		1486 1609	1491 1614	Water Inj

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	104'	40	Pump & Plug		Cement Circulated
4 1/2	1676'	125	Pump & Plug	8.3	25 bbl ahead

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
On 8-26-64 perforated 1486-1491 and 1609-1614 w/4 jets/ft. Treated each zone w/500 gal mud acid. On 9-13-64 treated lower zone w/5000# 10/20 sd. and 1100# 8/12 sd. in 6500 gal water + 15#/1000 gal of J-100.						

TOOLS USED

Rotary tools were used from Surface feet to 1683 TD feet, and from ..... feet to ..... feet

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

DATES

10-17-64, 19.... Put to producing Start Inj. 9-1-64, 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

Van Dorn Drilling Co., Driller ....., Driller

....., Driller ....., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surface	182	182	Mesaverde
182	1451	1270	Mancos
1451	1623	172	Gallup (or Niobrara) Upper Gallup 1484 Lower Gallup 1609
1623	1683 TD	50'	Juana Lopez (Carlile Member)

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FOLD | MARK

(OVER)

16—43094-5

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

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

HISTORY OF OIL OR GAS WELL

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.