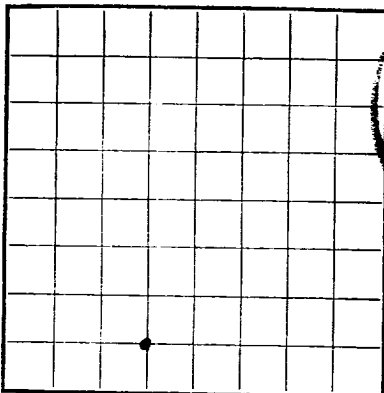
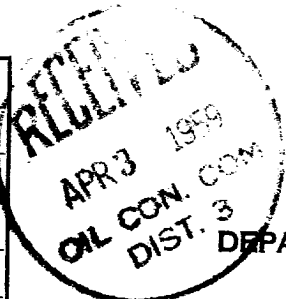




LOCATE WELL CORRECTLY

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER _____
LEASE OR PERMIT TO PROSPECT 14-20-600-3531
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company The Atlantic Refining Co. Address Box 520, Casper, Wyoming
Lessor or Tract Navajo - Ute Nat. Tribal Field Horseshoe Valley State New Mexico
Well No. Navajo 1 Sec. 20 T. 11N R. 14W Meridian 114N County San Juan
Location 660 ft. N. of 3 Line and 1900 ft. E. of 7 Line of Sec. 20 Elevation 5475.001
(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 6-2-59 Title Geological Clerk

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

Commenced drilling 1-21, 1959 Finished drilling 1-26, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1133 to 1147 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 shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
<u>8 5/8</u>	<u>98.03</u>	<u>115</u>	<u>115</u>	<u>115</u>	<u>115</u>	<u>115</u>	<u>115</u>	<u>115</u>	<u>115</u>
<u>4 1/2</u>	<u>1513.40</u>	<u>125</u>	<u>125</u>	<u>125</u>	<u>125</u>	<u>125</u>	<u>125</u>	<u>125</u>	<u>125</u>
HISTORY OF OIL OR GAS WELL									

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>98.03</u>	<u>115</u>	<u>pump-plug</u>	<u>8.9</u>	
<u>4 1/2</u>	<u>1513.40</u>	<u>125</u>	<u>pump-plug</u>	<u>8.9</u>	

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 _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to 1506 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. 100If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas 12.0

Rock pressure, lbs. per sq. m. _____

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>1100</u>		<u>Navajo</u>
<u>1100</u>	<u>1506</u>		<u>Gallup</u>
<u>Juana Lopez not reached</u>			
<u>Treated perforations 1133-1147 with 100,000# 10/20 sand and 30,570 gallons lease grade. Average treating pressure 2000# at 36 BPM.</u>			
FROM—	TO—	TOTAL FEET	FORMATION

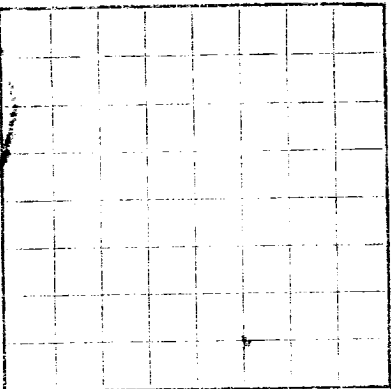
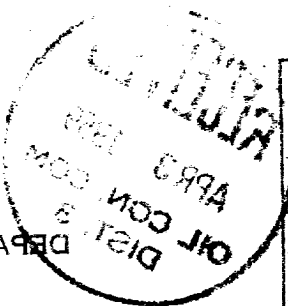
(OVER)

FORMATION RECORD—Continued

16-43094-4

PLEASE OR PERMIT TO PROSPECT
SERIAL NUMBER
U.S. LAND OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
BIOLOGICAL SURVEY



LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

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 _____

Location of _____ ft. S. of _____ line and _____ ft. E. of _____ line of _____

Well No. _____ Sec. _____ T. _____ R. _____ Meridian

Lessor or Trust _____

County _____ State _____

Address _____

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

Date _____

Time _____

Commenced drilling _____ 19____ finished drilling _____

OIL OR GAS SANDS OR LONES

(Versteht das 17 G)

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. 2, from _____ to _____
 No. 3, from _____ to _____
 No. 4, from _____ to _____

CASING RECORD

Serial	Weight Per foot	Length in feet	Make	Amount	Kind of shot	Test and pulled from	Estimated range	Purpose
It is of the greatest importance to have a complete history of the well. Please state in detail the dates of continuing, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and in any casing was changed, or left in the well, give the size and location. If the well has been dynamited, give date, size, position, and depth of shot. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or pulling.								

It is of the greatest importance to have a complete history of the well. Those state in detail the dates of drilling, together with the reasons for the work and the results. If there were any changes made in the casing, state fully, and in any casing was sidepacked, or left in the well, give size and location. If the well has been dynamited, give date, size, position, and depth 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

Case file	Witness	Number of cement	Method used	Time required	Amount of cement used
MIDDING AND CEMENTING RECORD					

STUDY AND DATA COLLECTION

[illegible]

SHOOTING RECORD

[illegible]

TOOLS USED

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

DATE

[illegible]

EMPLOYERS

_____	_____	_____	_____
_____	_____	_____	_____

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	100		CLAY
100	200		CLAY
200	300		CLAY
300	400		CLAY
400	500		CLAY
500	600		CLAY
600	700		CLAY
700	800		CLAY
800	900		CLAY
900	1000		CLAY
1000	1100		CLAY
1100	1200		CLAY
1200	1300		CLAY
1300	1400		CLAY
1400	1500		CLAY
1500	1600		CLAY
1600	1700		CLAY
1700	1800		CLAY
1800	1900		CLAY
1900	2000		CLAY
2000	2100		CLAY
2100	2200		CLAY
2200	2300		CLAY
2300	2400		CLAY
2400	2500		CLAY
2500	2600		CLAY
2600	2700		CLAY
2700	2800		CLAY
2800	2900		CLAY
2900	3000		CLAY
3000	3100		CLAY
3100	3200		CLAY
3200	3300		CLAY
3300	3400		CLAY
3400	3500		CLAY
3500	3600		CLAY
3600	3700		CLAY
3700	3800		CLAY
3800	3900		CLAY
3900	4000		CLAY
4000	4100		CLAY
4100	4200		CLAY
4200	4300		CLAY
4300	4400		CLAY
4400	4500		CLAY
4500	4600		CLAY
4600	4700		CLAY
4700	4800		CLAY
4800	4900		CLAY
4900	5000		CLAY
5000	5100		CLAY
5100	5200		CLAY
5200	5300		CLAY
5300	5400		CLAY
5400	5500		CLAY
5500	5600		CLAY
5600	5700		CLAY
5700	5800		CLAY
5800	5900		CLAY
5900	6000		CLAY
6000	6100		CLAY
6100	6200		CLAY
6200	6300		CLAY
6300	6400		CLAY
6400	6500		CLAY
6500	6600		CLAY
6600	6700		CLAY
6700	6800		CLAY
6800	6900		CLAY
6900	7000		CLAY
7000	7100		CLAY
7100	7200		CLAY
7200	7300		CLAY
7300	7400		CLAY
7400	7500		CLAY
7500	7600		CLAY
7600	7700		CLAY
7700	7800		CLAY
7800	7900		CLAY
7900	8000		CLAY
8000	8100		CLAY
8100	8200		CLAY
8200	8300		CLAY
8300	8400		CLAY
8400	8500		CLAY
8500	8600		CLAY
8600	8700		CLAY
8700	8800		CLAY
8800	8900		CLAY
8900	9000		CLAY
9000	9100		CLAY
9100	9200		CLAY
9200	9300		CLAY
9300	9400		CLAY
9400	9500		CLAY
9500	9600		CLAY
9600	9700		CLAY
9700	9800		CLAY
9800	9900		CLAY
9900	10000		CLAY