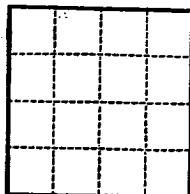


(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency _____
Navajo Ute Mtn Tribal
Allottee _____
Lease No. 11-08-0001-8200



SUNDRY NOTICES AND REPORTS ON WELLS

| | | | |
|---|--|--|--|
| 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 REDRILL 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 | | | |
| Intention to convert to water inj <u>I</u> | | MAR 5 1963 | |

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

U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

February 13, 1963

HORSESHOE GALLUP UNIT

Well No. 278 is located 440 ft. from N line and 1900 ft. from E line of sec. 33

N 1/4 Sec. 33
(4 Sec. and Sec. No.)

31N
(Twp.)

16W
(Range)

NMPM
(Meridian)

Horseshoe Gallup
(Field)

San Juan
(County or Subdivision)

New Mexico
(State or Territory)

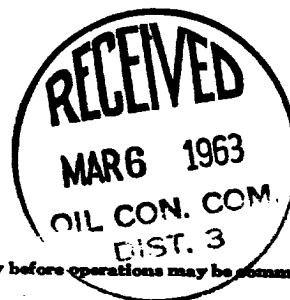
The elevation of the ~~surface~~ ground floor above sea level is 5000 ft.

DETAILS OF WORK

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

Request permission to convert this well to water injection in connection with our secondary recovery project. Water will be injected down tbg. below a packer for the upper Gallup.

"Effective May 3, 1966, The Atlantic Refining Company changed its name to Atlantic Richfield Company"



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

Company The Atlantic Refining Co.

Address Box 2197

Farmington, N.M.

By John Knott

Title Drilling & Prod. Supervisor

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the first of these is the fact that the system is not a closed system, but an open system, in that it is in contact with the environment.

the second of these is the fact that the system is not a simple system, but a complex system, in that it is composed of many interacting parts. the third of these is the fact that the system is not a static system, but a dynamic system, in that it is constantly changing and evolving.

the fourth of these is the fact that the system is not a linear system, but a non-linear system, in that the relationship between the parts is not linear.

the fifth of these is the fact that the system is not a deterministic system, but a probabilistic system, in that the behavior of the system is not predictable with certainty.

the sixth of these is the fact that the system is not a simple system, but a complex system, in that it is composed of many interacting parts.

the seventh of these is the fact that the system is not a static system, but a dynamic system, in that it is constantly changing and evolving.

the eighth of these is the fact that the system is not a linear system, but a non-linear system, in that the relationship between the parts is not linear.