



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. SP 078474
Unit _____

SUNDRY NOTICES AND REPORTS ON WELLS **RECEIVED**

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	NOV 13 1959
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 RE-DRILLING OR REPAIR	S. GEOLOGICAL SURVEY
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	FARMINGTON, NEW MEXICO
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	Subsequent Report of Perforating And Formation Fracturing	X

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

11-17, 19 59

O. A. Keeling-Federal
Well No. 1 is located 990 ft. from [N] line and 1750 ft. from [E] line of sec. 20
NE/4 20 25-N 8-W WUPM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Undesignated Dakota San Juan New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~surface~~ ^{Ground} floor above sea level is 6515 ft.

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)

Perforated Dakota formation from 6540-6570' w/4 holes/2' interval or total of 64 holes using Dowell Abrasijet hydraulic perforator. Spotted 500 gals and acid (15% HCl & 3% HF) on perfor. Treated well down casing w/60,000# of 40-60 mesh sand & 58,100 gals water w/1% calcium chloride. Broke down formation w/3500#. Average treating press was 3700#. Flushed w/7,476 gals water. Avg injection rate was 40.5 BPM.

Perforated Dakota (Graneros) from 6354-6366 w/4 holes/ft using Dowell Abrasijet hydraulic perforator. Treated zone w/60,000# of 40-60 mesh sand & 60,480 gals oil. No breakdown pressure. Treated w/3200-3500#. Flushed w/8,400 gals oil. Average injection rate was 43.6 BPM. Spearheaded treatment with 500 gals acid.

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

Company WESTERN NATURAL GAS COMPANY

Address 2111 West Main

Farmington, New Mexico

By Calvin M. Rayne

Title Petroleum Engineer