



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYLand Office Santa Fe
Lease No. SF 070863
Unit _____

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 RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING 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.....	<u>Subsequent Report of Perforating And Formation Fracturing</u>

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

2-6, 19 60

O. H. Krause-Federal
Well No. 1 is located 790 ft. from N line and 990 ft. from W line of sec. 32
ss 4 32 28-N 11-N NMPM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Undesignated San Juan New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the Ground ~~drainage floor~~ above sea level is 6035 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 "B" & "B-1" zones from 6406-16' & 6454-66' w/52 holes or 2 holes/2' interval using hydraulic perforator. Treated well w/60,000# of 20-40 mesh & 64,900 gals wtr w/1% CaCl₂. Spearheaded treatment w/500 gals mud acid ahead. Broke down form w/1700#. Avg treating press was 2150#. Flushed w/11,500 gals wtr. Avg injection rate was 51 BPM.

Perforated Graneros zone from 6328-38' w/24 holes using hydraulic perforator. Spotted 500 gals mud acid (3% HF & 15% HCl) on perfs. Broke down form w/2500#. Surf treating press decreased gradually to 2000# & increased instantaneously to 4200# when well sandbed off. Fraced perfs 6328-38' w/10,000# of 20-40 mesh sand & 10,000 gals wtr w/1% CaCl₂ @ 63.8 BPM @ avg treating press of 2250# before screening out.

Perforated Gallup (Toole zone) from 5848-62' w/32 holes using hydraulic perforator. Treated well w/40,000# 20-40 mesh sand & 40,000 gals oil w/500 gals mud acid ahead. Broke down form w/1300#. Treated @ 1700#. Flushed w/10,500 gals oil. Avg inf. rate was 40.9 BPM.

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

Company WESTERN NATURAL GASAddress 211 1/2 West MainFarmington, New MexicoBy Calvin M. ReyesTitle Petroleum Engineer