



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Santa FeLease No. SF 978673

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	<b>Subsequent Report of Perforating And Formation Fracturing</b>

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

Well No. 1 is located 790 ft. from N line and 1980 ft. from E line of sec. 10  
11-11, 1959

SW 1/4 (1/4 Sec. No.) 27-5 (1/4 Sec. No.) 11-11 (1/4 Sec. No.)

Undesignated Gallup & Angel Peak Ext-Dakota San Juan or Subdivision) New Mexico (County)

The elevation of the derrick floor above sea level is 6249 ft.  
Ground

## 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)

Perforated Dakota zone from 6630-6666' w/1/4 holes/2' interval or total of 76 holes using Dwell AbrasiJet hydraulic tool. Treated well down casing w/60,000' of 20-40 mesh sand & 59,430 gals water w/1% CaCl<sub>2</sub>. Broke down formation w/2000' w/500 gals mud acid ahead. Avg treating press was 1900'. Flushed w/10,920 gals water. Overflushed w/840 gals. Avg injection rate was 60.9 BPM.

Perforated Gallup (Tosito zone) from 6036-6054' w/1/4 jet holes/ft. Treated well w/42,000 gals oil & 40,000' of 20-40 mesh sand w/500 gals mud acid ahead. No breakdown press. Treated @ 2000'. Flushed w/13,062 gals oil. Avg injection rate was 57.4 BPM.

Perforated Gallup (Nelson zone) from 5962-5982' w/1/4 jet holes/ft. Treated well w/40,000' of 20-40 mesh sand & 40,100 gals oil w/500 gals mud acid ahead. No breakdown pressure. Avg treating press was 1800'. Flushed w/10,710 gals oil. Avg injection rate was 62.7 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 GAS

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By Calvin M. Rayes

Title Petroleum Engineer



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