

(SUBMIT IN TRIPLICATE)

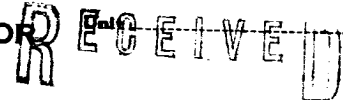
UNITED STATES

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office

SF-078584

Lease No.



## 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	X
NOTICE OF INTENTION TO ABANDON WELL		

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

6-10, 1960

Well No. **Miller A-1** is located **990** ft. from **N** line and **990** ft. from **E** line of sec. **13**  
**NE 13** **24 N** **7 W** **H.M.P.M.**  
 (1/4 Sec. and 1/4 Sec. No.) (Twp.) (Range) (Meridian)  
**Devils Fork** **Rio Arriba** **New Mexico**  
 (Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **6928** 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)

**Production Test:** Subject well completed 6/4/60 and production test begun 6/4/60. Load oil & water recovery commenced 6/4/60. Sixteen hour SIP: Dakota 2100 psi, Gallup casing 1600 psi, tubing 1550 psi.  
**Gallup production 24-hour test:** Choke 32/64, separator back pressure 525 psi, gas gauged at rate of 2680 to 2870 MCFPD during first 17 hours and stabilized at rate of 2870 MCFPD during last 7 hours of test. Flowing pressures were 890 to 900 psi casing and 650 to 690 psi tubing.  
**Dakota production 24-hour test:** Twenty hour test with flowing pressure at 525 to 675 psi well produced at approximate average rate of 410 MCFPD. Next four hours of test with flowing pressure at 50 psi. Well produced at rate of 475 MCFPD.

(See back for perforation and stimulation detail.)

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

Company **T. H. McElvain**  
**220 Shelby Street**  
 Address **Santa Fe, New Mexico**

By *W. C. Wunnicke*  
**W. C. Wunnicke**  
 Title **Consulting Engineer**

### Perforation Detail

With 2 dyna jet shots per foot the Dakota was perforated: 6840 to 6834; 6824 to 6806; and 6760 to 6740.  
With 2 dyna jet shots per foot the Graneros was perforated: 6705 to 6696; 6685 to 6675; and 6671 to 6662.  
With 2 dyna jet shots per foot the Gallup was perforated: 5870 to 5850; 5758 to 5748; 5738 to 5726 and 5686 to 5674; with 4 dyna jet shots per foot the Gallup was perforated: 5700 to 5696.

### Stimulation Detail

5/26/60-5/27/60: Frac Job No. 1. Dakota perforations from 6840 to 6740. Spotted 300 gals. acid over perforations. Treated with 38,900 gals. of 1% calcium chloride water and 25,000# sand. Flushed with 12,150 gals. of treated water. Break down pressure 200 to 1700 psi. Treating pressure 2700 to 2600 psi. Final pressure 2000 psi. Injection rate 47 bbl per min.  
5/27/60: Frac Job No. 2. Graneros perforations from 6705 to 6662. Bridge plug at 6718. Acidized with 500 gal. of acid. Treated with 35,300 gals. of calcium chloride treated water and 25,000# sand. Flushed with 13,000 gals. of treated water. Break down pressure 2900 to 2500 psi; treating pressure 2900 to 2700 psi; final pressure 2150 psi. Injection rate 46 bbls per min.  
6/1/60: Frac Job No. 3. Lower Gallup perforations from 5870 to 5850. Packer set at 6623. Acidized with 300 gals. of acid. Treated with 17,000 gals. of oil plus 29,000# of sand and flushed with 9,700 gals. of oil. Break down pressure 2100 to 2000 psi; treating pressure 2650 to 2300 psi; final pressure 1600 psi. Injection rate 43.6 bbls per min.  
6/2/60: Frac Job No. 4. Upper Gallup perforations from 5758 to 5674. Bridge plug at 5820. Acidized with 500 gals. of acid. Treated with 29,800 gals. of oil with 35,000# sand. Flushed with 9,700 gals. of oil. Break down pressure 1400 psi; treating pressure 2550 to 2200 psi; final pressure 1700 psi. Injection rate 54.3 bbls. per min.