

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Santa Fe  
Lease No. 87-077631  
Unit Richardson

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.....	

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

June 15, 1959

Well No. 5 is located 1850 ft. from N line and 1660 ft. from E line of sec. 21  
right, Sec. 21 T-31-N, R-12-W N.M.P.M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Blanco-Monverde San Juan New Mexico  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5000 ft. ungraded ground

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)

Propose to drill and set 150' of 10 1/4" surface casing - cement to surface. Drill with rotary to an approximate depth of 4000' - Run 7 5/8" casing and cement with 150 sacks. Drill from 7 5/8" casing point with gas to a total depth of 5000 or through Point Lockhart Formation, which ever is greater. Run 5 1/2" liner to total depth and cement. Shut-water from Point Lockhart formation - Clean out and run tubing.

The N 1/4 of Section 21, T-31-N, R-12-W, consisting of 360 acres, is dedicated to this well location.

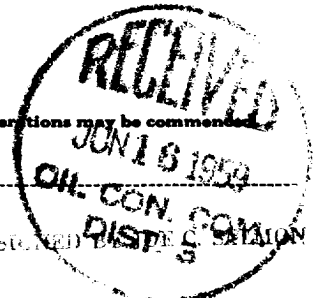
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company ARCO OIL & GAS COMPANY

Address P O Box 786

Farmington, New Mexico

By Joe C. Salmon  
Title District Superintendent



*Journal of Interpersonal Violence* 26(10) 1978-1997  
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1977-78 = 21.00

$\alpha \in \mathbb{R}$  and  $\beta \in \mathbb{R}$  are the parameters of the model. The model is trained by minimizing the loss function  $\mathcal{L}$  defined as follows:
 
$$\mathcal{L} = \frac{1}{N} \sum_{i=1}^N \left( \frac{1}{2} \left( \frac{y_i - \hat{y}_i}{\sigma_i} \right)^2 + \lambda \left( \alpha^2 + \beta^2 \right) \right)$$
 where  $N$  is the number of data points,  $y_i$  is the target value,  $\hat{y}_i$  is the predicted value,  $\sigma_i$  is the standard deviation of the target values, and  $\lambda$  is the regularization parameter.

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*Journal of Management Education* 36(7) 809–824

NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

Section A.

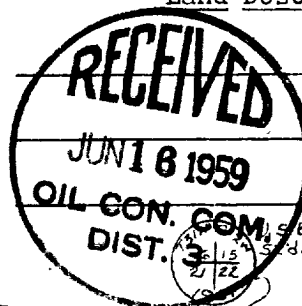
Date June 11, 1959

Operator Aztec Oil And Gas Company Lease Richardson  
Well No. 5 Unit Letter \_\_\_\_\_ Section 21 Township 31 North Range 12 West NMPM  
Located 1850' Feet From North Line, 1660' Feet From East Line  
County San Juan G. L. Elevation 6131 Dedicated Acreage 320 Acres  
Name of Producing Formation Mesaverde Pool Blanco-Mesaverde

1. Is the Operator the only owner\* in the dedicated acreage outlined on the plat below?  
Yes X No \_\_\_\_\_.
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes \_\_\_\_\_ No \_\_\_\_\_. If answer is "yes,"  
Type of Consolidation \_\_\_\_\_
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner

Land Description



Section. B



This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

AZTEC OIL & GAS COMPANY  
(Operator)

ORIGINAL SIGNED BY JOE C. SALMON

(Representative)  
P O Box 786  
Farmington, New Mexico

Address

This is to certify that the well location shown on the plat in Section B was located from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed June 10, 1959

Ernest V. Echohawk  
Ernest V. Echohawk  
Registered Land Surveyor.

Certificate No. 1545