



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. EM 05750
Unit Graham

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>Workover and dual completion of old well</u>

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

December 21, 1960

Well No. 1 is located 1450 ft. from N line and 1165 ft. from E line of sec. 9

10 1/4 Sec. 9 27-E 8-W 100W
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
South Blanco P.C. San Juan New Mexico
(County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5931.3 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)

Set retrievable bridge plug at 3297'. Perforated with 4 holes at 3003' - 51" casing. Pumped in w/water at 800 psi. Cemented with 30 ex 50-50 pozalex w/43 gal with 12 1/2 lbs gilsonite - maximum pressure was 1100 psi. Cement top at 2800' according to temperature survey. Cleaned out to bridge plug and retrieved same. Cleaned out open hole to 4500' with gas. Run and set 4" CP 92 145/ft slotted liner at 4488' with top of liner at 4263'. Frased Mesa Verde open hole interval through liner with 500 gals acid, 50,000 gal water and 70,000 lbs sand. Max. pressure was 1200 psi, minimum was 1000 psi, average injection rate was 60 gpm. Flushed with 105 bbls water.

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

Company AMERICAN NATURAL GAS COMPANY
Address 523 Midland Tower
Midland, Texas
By W. E. Cook
Title Division Engineer

Graham #1

Details of Work (Cont'd)

Perforated Pictured Cliffs interval of 2133-51' with 4 jet shots per foot. Ran and set BP-4 packer at 2244'. Frased Pictured Cliffs formation with 500 gals acid, 40,000 gals water and 60,000 lbs sand, formation broke at 2000 psi; minimum pressure was 1300 psi, average injection rate was 53.6 BPM, flushed with 44 bbls water. Retrieved the OT BP-4 packer - cleaned up both zones unloading sand and free water. Final dual completion as follows: tubing set at 4249' with two joints of 2" 8000 S 40 below packer as tail pipe, the Brown Oil Tool BP-4 packer set at 4189' with 137 joints of 2 1/2" 10V and 3rd tubing above packer and Casing sliding sleeve at 4058' in closed position. Flowing and cleaning up both zones.