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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe

Lease No. N.M. 04375

Unit E/2 Sec. 1, T-30N,
R-13W, N.M.P.M. San Juan
 Cty., New Mexico

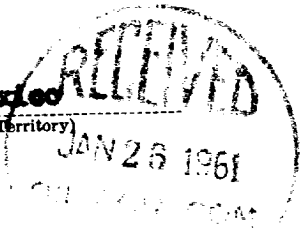
SUNDRY NOTICES AND REPORTS ON WELLS

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.....	<input checked="" type="checkbox"/>
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)

January 20, 1961

Well No. 1-4 ^{Raid} is located 990 ft. from N line and 990 ft. from E line of sec. 1
NM/4 NE/4 Sec. 1 T-30N R-13W N.M.P.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Basin Dakota San Juan County New Mexico
(Field) (County or Subdivision) (State or Territory)



The elevation of the derrick floor above sea level is 5883 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)

1. Drilled well to T.D. of 6865 with rotary tools. T.D. reached 12/18/60.
2. Ran 2 1/2" jts, 4 1/2", 9.50#, J-55 csg. on 12/18/60. Landed at 6865 R.K.B. Set Baker 4 1/2" stage collar at 6825 ft. Cement bottom stage with 311 cu. ft. pozzex cement with 2% gel & 17 cubic ft. latex cement. Plug down 6:00 A.M. 12/19/60.
3. Ran temp. survey on 1st stage cement. Top cement 5680 R.K.B.
4. Cement 2nd stage with 400 cubic ft. 40% Diaseal cement with 4% calcium chloride. Job complete 3:25 P.M. 12/19/60.
5. Ran temp. survey. Top of cement at 3700 ft. R.K.B.
6. Drilled stage collar & cleaned out to P.B.T.D. of 6830 R.K.B. on Dec. 20, 1960. Pressured up on csg. to 1600 psi for 30 minutes. Pressure held.
7. Perf. 4 shots/ft. 6792-6811, 6762-6734, 6718-6652 and 6630-6608.

(OVER)

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

Company SOUTHERN UNION GAS COMPANY

Address BOX 808

Farmington, New Mexico

By Gilbert Noland, Jr.
Gilbert Noland, Jr.
 Title Drilling Superintendent

8. Sand Water Frac above perfs. with 90,000# 20-40 sand and 100,000 gallons Water.
9. Set Baker $1\frac{1}{2}$ " Model "D" production packer at 6530 ft. with expendable plug.
10. Perf. Gallup formation 4 shots/ft. 5942-5954 and 5962-5980.
11. Sand-Oil frac perfs with 30,000# 20-40 sand and 28,000 gallons oil on 1/1/61.
12. Swab and test Gallup formation. No oil or gas production.
13. Squeeze off Gallup perforations with 75 sacks neat cement with Dowell D-23 additive. Max squeeze press. 3,000 psi. Job complete 12:30 P.M. 1/3/61.
14. Drilled squeeze cement and cleaned out to 6420 ft. pressured up on squeeze job to 2500 psi for 20 minutes on 1/10/61. Pressure held.
15. Drilled production packer and cleaned out to P.B.T.D. of 6830.
16. Ran 203 jts., $1\frac{1}{2}$ ", 2.75#/ft., J-55 tubing on January 11, 1961. Landed at 6544' R.K.B. Nippled up Xmas Tree. Completed well.