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U. S. LAND OFFICE SANTA FE
 SERIAL NUMBER SF 078430
 LEASE OR PERMIT TO PROSPECT N/2 SEC. 14
T-26N, R-8W, N.M.P.M., SAN JUAN CTY

UNITED STATES NEW MEXICO
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company SOUTHERN UNION PRODUCTION COMPANY Address P. O. Box 808, FARMINGTON, N. MEX.
 Lessor or Tract NICKSON Field BASIN DAKOTA State NEW MEXICO
 Well No. 9 Sec. 14 T. 26N R. 8W Meridian N.M.P.M. County SAN JUAN
 Location 830 ft. {N.} of N Line and 815 ft. {E.} of W Line of Sec. 14 Elevation 7040
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.
 Signed S. M. Muennink S. MUENNINK

Date SEPTEMBER 17, 1963 Title AREA SUPERINTENDENT
 The summary on this page is for the condition of the well at above date.

Commenced drilling 7 - 23, 1963 Finished drilling 8 - 22, 1963

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 7448 to 7444 (G) No. 4, from 7384 to 7378 (G)
 No. 2, from 7436 to 7416 (G) No. 5, from 7336 to 7314 (G)
 No. 3, from 7404 to 7390 (G) No. 6, from 7246 to 7237 (G)

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
 No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
<u>103/4</u>	<u>22.75</u>	<u>8 RD</u>	<u>JCW</u>	<u>7377</u>	<u>NONE</u>	<u>NONE</u>	<u>7448</u>	<u>7237</u>	<u>SURFACE</u>
<u>4 1/2</u>	<u>10.30</u>	<u>8 RD</u>	<u>JCW</u>	<u>7377</u>	<u>NONE</u>	<u>NONE</u>	<u>7448</u>	<u>7237</u>	<u>PERFORATED</u>
<u>1 1/2</u>	<u>2.90</u>	<u>8 RD</u>	<u>JCW</u>	<u>7377</u>	<u>NONE</u>	<u>NONE</u>	<u>7448</u>	<u>7237</u>	<u>PERFORATED</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>103/4</u>	<u>293 KB</u>	<u>250</u>	<u>PUMP</u>		
<u>4 1/2</u>	<u>7494 KB</u>	<u>420 CU. FT.</u>	<u>PUMP</u>		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
 Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
<u>1ST STAGE: PERF 7444-7384. SPITD 250 GAL. MCA: FRAC W/62,500 GAL. H2O & 20,000# 40-60 SAND & 10,000# 20-40 SAND W/20 TONS CO2. 6,200 GAL. 1 1/2 C.C. H2O. 2ND STAGE: PERF 7336-7246. FRAC W/67,400 GAL. H2O & 30,000# 20-40 SAND & 10,000# 40-60 SAND & 40 TONS CO2. 5573 GAL. H2O & CO2.</u>						

Rotary tools were used from 0 feet to 7494 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

SEPTEMBER 13, 1963 Put to producing _____, 19____
 The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____
 If gas well, cu. ft. per 24 hours 3,452 Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. CAOP=4,373 SLIP=1,924 SICP=1,881

_____, Driller ASPEN DRILLING COMPANY, Driller C. E. WATSON
 _____, Driller BOB MCGUIRE, Driller W. M. JOHNSON

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>SURF.</u>	<u>2230</u>	<u>2230</u>	<u>WASATCH</u>
<u>2230</u>	<u>2690</u>	<u>460</u>	<u>KIRTLAND</u>
<u>2690</u>	<u>2900</u>	<u>210</u>	<u>FRUITLAND</u>
<u>2900</u>	<u>2980</u>	<u>80</u>	<u>PICTURED CLIFFS</u>
<u>2980</u>	<u>4480</u>	<u>1500</u>	<u>LEWIS</u>
<u>4480</u>	<u>5500</u>	<u>1020</u>	<u>MESA VERDE</u>
<u>5500</u>	<u>7195</u>	<u>1695</u>	<u>MANCOS</u>
<u>7195</u>	<u>7494</u>	<u>299</u>	<u>DAKOTA</u>



Grid for locating well correctly

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

U.S. LAND OFFICE
Special Number
Based on Permit to Prospect

Company name, location, and well details. Includes information about the well's location and the company's name.

Table for OIL OR GAS SANDS OR NONES. Columns include depth from and to, and sand/non-sand status.

Table for CASING RECORD. Columns include casing size, length, and material.

Table for MUDDING AND CEMENTING RECORD. Columns include mud weight, cement, and amount of mud used.

Table for PLUGS AND ADAPTERS. Columns include plug size, length, and depth set.

Table for SHOOTING RECORD. Columns include shot size, weight, and depth set.

Table for TOOLS USED. Columns include tool name, length, and depth set.

DATES
Production data including dates, gallons of gas, and percentage of oil.

Table for FORMATION RECORD. Columns include formation name, total feet, and depth.

Main FORMATION RECORD table with columns: FROM, TO, TOTAL FEET, FORMATION. Lists various geological formations and their depths.