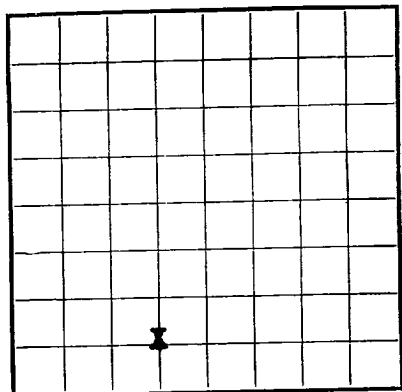


U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **SF 079008-A**
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **A. L. Duff, Jr.** Address **515 Simms Bldg., Albuquerque, N. M.**
Lessor or Tract **Arck United States** Field **Wilcoat** State **New Mexico**
Well No. **1** Sec. **3** T. **21N** R. **7W** Meridian **N.M.P.M.** County **Sandoval**
Location **660** ft. **3** of **S** Line and **1980** ft. **7** of **W** Line of **Sec. 3-21N-7W** Elevation **6781**
(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 **A. L. Duff, Jr.** Title **Operator**
Date **October 11, 1957**

The summary on this page is for the condition of the well at above date.
Commenced drilling **September 13**, 19**57** Finished drilling **September 30**, 19**57**

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from **None** to No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from **None** 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—	
8-5/8	28	8RT	J&L	160'	Guide				Surface
HISTORY OF OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	169	100	Halliburton		

PLUGS AND ADAPTERS **None**

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOOTING RECORD **None**

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from **4528** feet to **5568** feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

P&A September 30, 19**57** Put to producing **Dry hole**, 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 Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

J. K. Robinson, Driller **J. W. Spraberry**, Driller
D. T. Dacus, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
4528	4905	377	Shale and Sand
4905	4930	25	Shale
4930	4936	6	Shale and Sand. Cored 4930 to 4939; recovered 8': 4' sand, 1t gra, w/tr pyrite, 8" v frac in top, bleeding gas & oil; 2' silt stone; 2' blk shale.
4936	4939	3	
4939	4965	26	Cored 4939-4965; recovered 11': black shale.
4965	5023	58	Shale & sand
5023	5123	100	Shale
5123	5152	29	Shale & sand
5152	5315	163	Shale
5315	5568	253	Sand & shale

Ran Schlumberger ES & Microlog to 5574', TD by Schlumberger. Plugged & abandoned September 30, 1957, as follows:
Cement plugs (with heavy mud between plugs) 5450-5130; 4350-4215; 3400-3285; 1300-1185; 900-785; 500-385; 100-surface.

LOG OF OIL OR GAS WELL

OIL OR GAS SANDS OR ZONES		IMPORTANT WATER SANDS	
No. 1 from	to	No. 1 from	to
No. 2 from	to	No. 2 from	to
No. 3 from	to	No. 3 from	to
No. 4 from	to	No. 4 from	to
No. 5 from	to	No. 5 from	to
No. 6 from	to	No. 6 from	to
No. 7 from	to	No. 7 from	to
No. 8 from	to	No. 8 from	to

(Indicate gas by G)

NO. 1, 2, 3, 4, 5, 6, 7, 8

U.S. GOVERNMENT PRINTING OFFICE: 1964 O - 348-001

Method used	Material	Remarks
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PLUGS AND ADAPTERS	
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..... Signed

(Faint, illegible text from the reverse side of the page)

The figure consists of two horizontal sequences of numbers from 0 to 9. A vertical line separates each sequence into two parts: 0-4 on the left and 5-9 on the right. Below the first sequence, there are three rows of symbols: a row of dots, a row of circles, and a row of squares. These symbols are positioned below specific numbers in the sequence.

total	of total	most have been	of the	360	1,000,000
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DATE

Amount	_____	lb water; and _____	oz insoluble
Gross wt., lbs.	_____		

enrolled

[illegible]

1999

function. On 26 October 1977, a total of 127 of selected 137 contractors to the

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