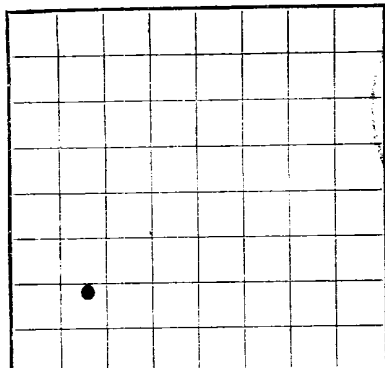


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER NM-03605
LEASE OR PERMIT TO PROSPECT _____



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company R & G Drilling Company, Inc. Address 250 W. 57th St., New York, N. Y
Lessor or Tract Marron Lease Field Wildcat State New Mexico
Well No. 42 Sec. 22 T. 27N R. 8W Meridian NMPM County San Juan
Location 990 ft. N. of S Line and 990 ft. E. of W Line of Sec. 22 Elevation 6011
(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.

so far as can be determined from an available record.

Signed William C. Russell
WILLIAM C. RUSSELL
Title President

Date May 25, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling March 9, 1959 Finished drilling May 4, 1959

OIL OR GAS SANDS OR ZONES

(Denote as b7 C)

No. 1, from 4408 to 4494-6 No. 4, from 4408 to 4494-6

No. 2, from 6352 to 6393-6 No. 5, from 6400 to 6440

No. 3, from 6518 to 6600-6 No. 6, from 6601 to 6601-6

IMPORTANT WATER SANDS

No. 1, from 6700 to 6734 No. 3, from 6735 to 6769

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

CASING RECORD

CASING RECORD

[illegible]

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
4.5	6610	350	Halliburton	90	100 sacks

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

TOOLS USED

Rotary tools were used from 4545 feet to 6734 feet, and from feet to feet.

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

DATES

May 25, 1959 Waiting on pipeline connection.
Put to producing

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

_____, Driller _____, Driller

_____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
4310	4500	190	Point Lookout
6350	6410	60	Greenhorn
6518	6596	78	Dakota

Dakota CAOF 375, MCFPD, SIP 1425#

Point Lookout CACF 1,012 MCFPD, SIP 1,016#

Neither section has enough gasoline or other fluid to measure

FORMATION RECORD—Continued

FROM-	TO-	TOTAL FEET	FORMATION
			1. 0-10' Sandstone, yellowish, medium grained, somewhat silty, contains small pebbles of quartz and feldspar. 2. 10-20' Sandstone, yellowish, medium grained, somewhat silty, contains small pebbles of quartz and feldspar. 3. 20-30' Sandstone, yellowish, medium grained, somewhat silty, contains small pebbles of quartz and feldspar. 4. 30-40' Sandstone, yellowish, medium grained, somewhat silty, contains small pebbles of quartz and feldspar. 5. 40-50' Sandstone, yellowish, medium grained, somewhat silty, contains small pebbles of quartz and feldspar. 6. 50-60' Sandstone, yellowish, medium grained, somewhat silty, contains small pebbles of quartz and feldspar. 7. 60-70' Sandstone, yellowish, medium grained, somewhat silty, contains small pebbles of quartz and feldspar. 8. 70-80' Sandstone, yellowish, medium grained, somewhat silty, contains small pebbles of quartz and feldspar. 9. 80-90' Sandstone, yellowish, medium grained, somewhat silty, contains small pebbles of quartz and feldspar. 10. 90-100' Sandstone, yellowish, medium grained, somewhat silty, contains small pebbles of quartz and feldspar.

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If pings or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

HISTORY OF OIL OR GAS WELL

Mesa Verde well drilled and completed by Great Lakes Oil & Chemical Company in 1951 - setting 7" casing at 4310' with a I. D. of 4545. We commenced drilling with gas at 4545 and drilled a 6" hole to E. D. of 6734. We were stuck on bottom and could not recover fish. Left top of fish at 6611. Ran 4.5 casing to 6610, cemented bottom section with 200 sacks. Ran two-stage tool with cement baskets at 4600, cementing with 150 sacks - got fillup to 4000'. Perforated Dakota at 6518 to 6596 - 4 jet shots per foot. Fraced with 1500 BBHs water and 20,000# sand. Injection rate 20 BBHs per mi at 3500# pressure. Perforated Point Lookout (Mesa Verde) 4408-4494, 4 jets per foot. Set bridge plug at 4550 and fraced with 1500 BBHd water and 40,000# of 20-40 sand. Injection rate 33 BBHs per minute at 2700# pressure. Drilled bridge plug and ran 2" tubing to 6560 with 6' perforated joint on bottom and production packer at 4558 and circulating sleeve (lost) at 4498. Opened sleeve and unshipped both sections in. Closed sleeve and shut-in 7 days. Tested packer and both sections May 21, 1959

The first part of the paper is devoted to the study of the asymptotic behavior of the sequence of functions $f_n(x)$ defined by the recurrence relation

$$f_{n+1}(x) = \frac{1}{n+1} \sum_{k=0}^n f_k(x) \quad (1)$$
 under the assumption that the function $f_0(x)$ is continuous and bounded on the interval $[0, 1]$. It is shown that the sequence $f_n(x)$ converges uniformly to the function $f(x) = \int_0^1 f_0(t) dt$ as $n \rightarrow \infty$.

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