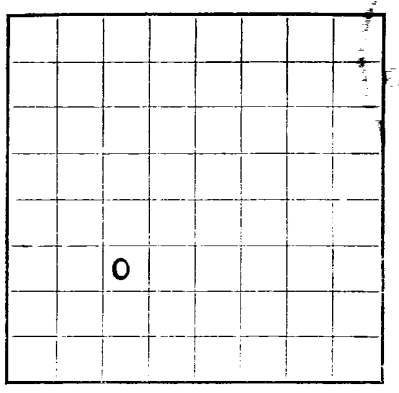
Form 9-330

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. Land Office Santa Fe
Serial Number NM 03605
Lease or Permit to Prospect Marron



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company R & G DRILLING CO., INC. Address Box 1848 Farmington, N. M.

Lessor or Tract Marron Field So Blanco State New Mexico

Well No. 39 Sec. 23 T. 27N R. 8W Meridian NMPM County San Juan

Location 1805 ft. [N.] of 5 Line and 1590 ft. [E.] of W Line of Sec. 23 Elevation 5944
(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

Date March 25, 1957 Title President

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

Commenced drilling March 17, 19 57 Finished drilling March 21, 19 57

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2100 to 2190 (G) 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 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 From—	Perforated To—	Purpose
8 5/8	22	8	CF1	150					Surface
5 1/2	14	8	CF1	2226			2105	2160	Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	150	125	Halliburton		12 sacks
5 1/2	2226	200	Halliburton Water		None

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 Surface feet to T. D. feet, and from feet to feet

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

DATES

March 25, 19 57 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 4,000 MCF Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. 825

EMPLOYEES

, Driller , Driller

, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
2100	2190	90	Pictured Cliffs Sand

[OVER]

16—43094-4

FOLD MARK

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

HISTORY OF OIL OR GAS WELL

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 "shot or pulled" 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 plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

12½" hole was drilled to 160 ft where 150 ft of 8 5/8" surface casing was set with 125 sacks. 7 7/8" hole was drilled to T. D. 2226 ft of 5½" x 14# casing was set with 200 sacks of cement. Hole was cleared to 2191' and casing perforated with Welex Dyria jets (4 shots per ft) from 2105 to 2160. Mud acid stood on perforation for 12 hours before frac with 1200 barrels water and 40,000# sand. Well was swabbed in and gauged at 4,000 MCFGPD. 2" EUE tubing landed at 2160'. Well shut in awaiting pipeline connection.

OPEN FLOW TEST DATA

Date: 3/27/57

Operator: R&G Drilling Comp[illegible] Lease: E&G #39 Warren

Location: S½ Sec 23-27N-8W County: San Juan State: NM

Formation: Pictured Cliffs Pool: So Blanco

Casing: 5½ " Set @ 2226 ' Tubing: 2" " Set @ 2145 '

Pay Zone: ' To: ' Total Depth: 2197 '

Choke Size: .750 " Choke Constant = C = 14.1605

Stimulation Method: Frac Flow Through: Casing X Tubing

Shut-In Pressure Casing: 824 psig + 12 = 836 psia (Shut-in 3 days)

Shut-In Pressure Tubing: 825 psig + 12 = 837 psia

Flowing Pressure: P : 174 psig + 12 = 186 psia

Working Pressure: P_w : 182 psig + 12 = 194 psia

Temperature: T : 62 °F + 460 = 522 ° Absolute

F_{pv} (from tables) : 1.019 Gravity .640 (est) n .85

Choke Volume = Q = C x P_t x Ft x Fg x F_{pv}

Q = 14.1605 x 186 x .9981 x .9682 x 1.019 = 2594 MCF/D

Open Flow = Aof = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$

Aof = $\left[\frac{837^2}{837^2 - 194^2}\right]^n = \frac{(700,569)}{(662,933)}^{.85} = (1.0568)^{.85}$

Aof = 2725 MCF/D

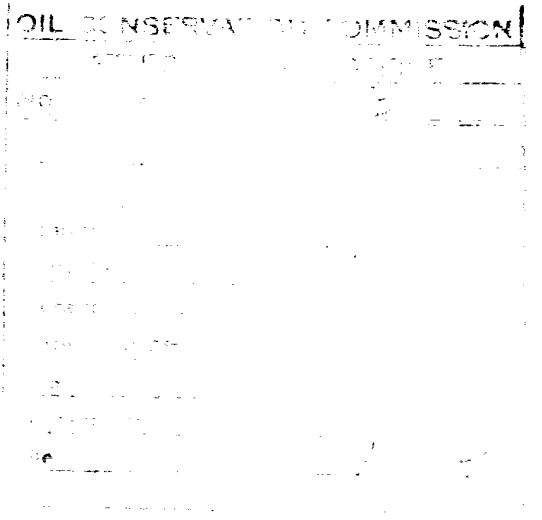
Tested By: Coolectric, Inc

Witnessed By: W.C.Russell

RECEIVED
MAR 28 1957
OIL CON. COM.
DIST. 3

W. J. McConathy

W.J.McConathy


OIL