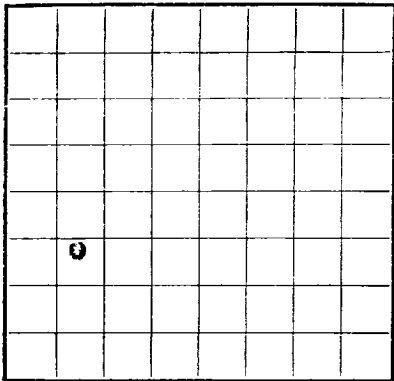




LOCATE WELL CORRECTLY

MAILED
OIL & GAS
DIST. 2

Santa Fe

U. S. LAND OFFICE

SERIAL NUMBER 37-346363

LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Public Petroleum Corporation Address Box 1419, Albuquerque, N. Mex.
Lessor or Tract McLeod Field Angel Peak State New Mexico
Well No. 2 Sec. 34 T. 28N R. 10W Meridian NMPM County San Juan
Location 1700 ft. N of S Line and 1050 ft. E of W Line of Section 34 Elevation 6039
(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 David N. Cargo Title Geologist
Date March 21, 1960

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

Commenced drilling February 8, 1960 Finished drilling February 25, 1960

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

No. 1, from 6394 to 6410 (G) No. 4, from _____ to _____
No. 2, from 6422 to 6438 (G) No. 5, from _____ to _____
No. 3, from 6478 to 6530 (G) 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—	
<u>9 5/8</u>	<u>32.30#</u>	<u>8</u>	<u>CP&I M40</u>	<u>241</u>	<u>Howes</u>		<u>6394</u>	<u>6410</u>	<u>Surf face</u>
<u>5 1/2</u>	<u>15.5#</u>	<u>8</u>	<u>CP&I J55</u>	<u>6457</u>	<u>Baker HW</u>		<u>6394</u>	<u>6530</u>	<u>Prod.</u>
<u>2</u>	<u>4.7#</u>	<u>8</u>	<u>CP&I J55</u>	<u>6537</u>					<u>Tubing</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>9 5/8</u>	<u>253'</u>	<u>225 sacks w/2% Ccl₂</u>	<u>circulated</u>		
<u>5 1/2</u>	<u>6666'</u>	<u>250 sacks</u>	<u>2 plug</u>		
<u>2</u>	<u>6564'</u>	<u>100 sacks</u>	<u>2 plug</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

TOOLS USED

Rotary tools were used from 0 feet to 6666 feet, and from 6666 feet to 6666 feet
Cable tools were used from 6666 feet to 6666 feet, and from 6666 feet to 6666 feet

DATES

March 21, 1960 Put to producing Waiting on connection 1960

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 9,107,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 1916

EMPLOYEES

R. C. Cary, Driller John D. Roe, Driller
J. C. Rinkley, Driller Charles Lockhart, 2878333
Toolpusher

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>Surface</u>	<u>1157</u>	<u>1157</u>	<u>Tertiary</u>
<u>1157</u>	<u>1986</u>	<u>829</u>	<u>Airtland-Fruitland</u>
<u>1986</u>	<u>2065</u>	<u>79</u>	<u>Pictured Cliffs</u>
<u>2065</u>	<u>3582</u>	<u>1517</u>	<u>Lewis</u>
<u>3582</u>	<u>4653</u>	<u>1071</u>	<u>Mesa Verde</u>
<u>4653</u>	<u>5525</u>	<u>872</u>	<u>Mancos</u>
<u>5525</u>	<u>6303</u>	<u>778</u>	<u>Gallup-Carlisle</u>
<u>6303</u>	<u>6364</u>	<u>61</u>	<u>Greenhorn</u>
<u>6364</u>	<u>6480</u>	<u>116</u>	<u>Graneros</u>
<u>6480</u>	<u>6666</u>	<u>186</u>	<u>Dakota</u>

Frac:

1st Stage: 6478-6530 perf w/2 jets & 2 bullets per ft. Frac w/80,000 gal water & 150,000# sand, SD 2000#, min TP 1550#, flushed w/150 bbl water, LR 52.9 BPM, BP @ 6460'.

2nd Stage: 6394-6410 and 6422-6438 perf w/2 jets & 2 bullets per ft. Frac w/40,000 gal water & 60,000# sand, SD 2350#, min TP 1900#, 20 balls dropped, TP 2150#, LR 45 BPM. All frac water treated w/jelling agent and Ccl₂