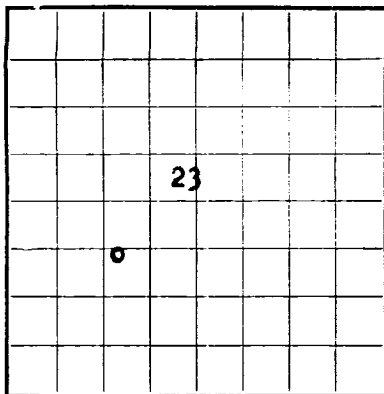




LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYU. S. LAND OFFICE *Jicarilla Tribe*
SERIAL NUMBER *Contract #163*
LEASE OR PERMIT TO PROSPECT *Lease #198*

LOG OF OIL OR GAS WELL

Company Southern Union Gas Company Address 1001 Burt Building, Dallas, Texas
Lessor or Tract Jicarilla Field Wildcat State New Mexico
Well No. 1-A Sec. 23 T. 26-N R. 4-W Meridian N.M.P.M. County Hio Arriba
Location 1650' of 5 Line and 1650' of W Line of 23 Elevation 6879' D.F.
(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.

Date July 9, 1954 Signed A. M. WIEDERKEHR Title Manager Exploration Dept.
Original Signed By A. M. Wiederkehr

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

Commenced drilling July 27, 1953 Finished drilling May 23, 1954

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3490 (C) to 3530 (C) No. 4, from _____ to _____
No. 2, from 5140 (G) to 5800 (G) No. 5, from _____ to _____
No. 3, from 7812 (C) to 8032 (C) 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		Purpose
							From—	To—	
<u>13-3/8"</u>	<u>48#</u>			<u>207'</u>	<u>CL</u>				<u>Surface</u>
<u>7"</u>	<u>23#</u>			<u>8118'</u>	<u>Perforated</u>		<u>3504'</u>	<u>3521'</u>	<u>Production</u>
<u>2-1/2"</u>	<u>6-1/2#</u>			<u>3554'</u>					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>13-3/8"</u>	<u>205' GL</u>	<u>150</u>	<u>Halliburton</u>		
<u>7"</u>	<u>3051'</u>	<u>350</u>			
<u>2-1/2"</u>	<u>3554'</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 3083' feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

May 23, 1954 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 3989.00 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 1032# Shut-in 3/days

EMPLOYEES

Harold Wilson, Driller Bill Wyatt, Driller
Doyle Hardwick, Driller Charles L. French, Jr., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>76</u>	<u>76</u>	<u>surface sand</u>
<u>76</u>	<u>320</u>	<u>244</u>	<u>sand and shells</u>
<u>320</u>	<u>1970</u>	<u>1650</u>	<u>sand and shale</u>
<u>1970</u>	<u>2015</u>	<u>45</u>	<u>shale</u>
<u>2015</u>	<u>2686</u>	<u>571</u>	<u>sand and shale</u>
<u>2686</u>	<u>2862</u>	<u>176</u>	<u>shale</u>
<u>2862</u>	<u>3061</u>	<u>199</u>	<u>sand and shale</u>
<u>3061</u>	<u>3066</u>	<u>5</u>	<u>shale</u>
<u>3066</u>	<u>3220</u>	<u>154</u>	<u>sand and shale</u>
<u>3220</u>	<u>3227</u>	<u>7</u>	<u>sand</u>
<u>3227</u>	<u>3343</u>	<u>616</u>	<u>sand and shale</u>
<u>3343</u>	<u>4155</u>	<u>312</u>	<u>shale</u>
<u>4155</u>	<u>4320</u>	<u>165</u>	<u>sand and shale</u>
<u>4320</u>	<u>4520</u>	<u>200</u>	<u>shale</u>
<u>4520</u>	<u>4532</u>	<u>12</u>	<u>sand and shale</u>
<u>4532</u>	<u>5021</u>	<u>489</u>	<u>shale</u>
<u>5021</u>	<u>5045</u>	<u>24</u>	<u>sand and shale</u>
<u>5045</u>	<u>5103</u>	<u>58</u>	<u>shale</u>
<u>5103</u>	<u>5123</u>	<u>20</u>	<u>sand and shale</u>
<u>5123</u>	<u>5153</u>	<u>30</u>	<u>cored</u>
<u>5153</u>	<u>5190</u>	<u>27</u>	<u>shale</u>
<u>5190</u>	<u>5219</u>	<u>29</u>	<u>sand and shale</u>
<u>5219</u>	<u>5228</u>	<u>9</u>	<u>sand (DST #2)</u>
<u>5228</u>	<u>5607</u>	<u>379</u>	<u>sand and shale</u>
<u>5607</u>	<u>5649</u>	<u>42</u>	<u>cored</u>
<u>5649</u>	<u>5655</u>	<u>6</u>	<u>sand and shale</u>
<u>5655</u>	<u>5702</u>	<u>53</u>	<u>cored</u>